



タップ Taps

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V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

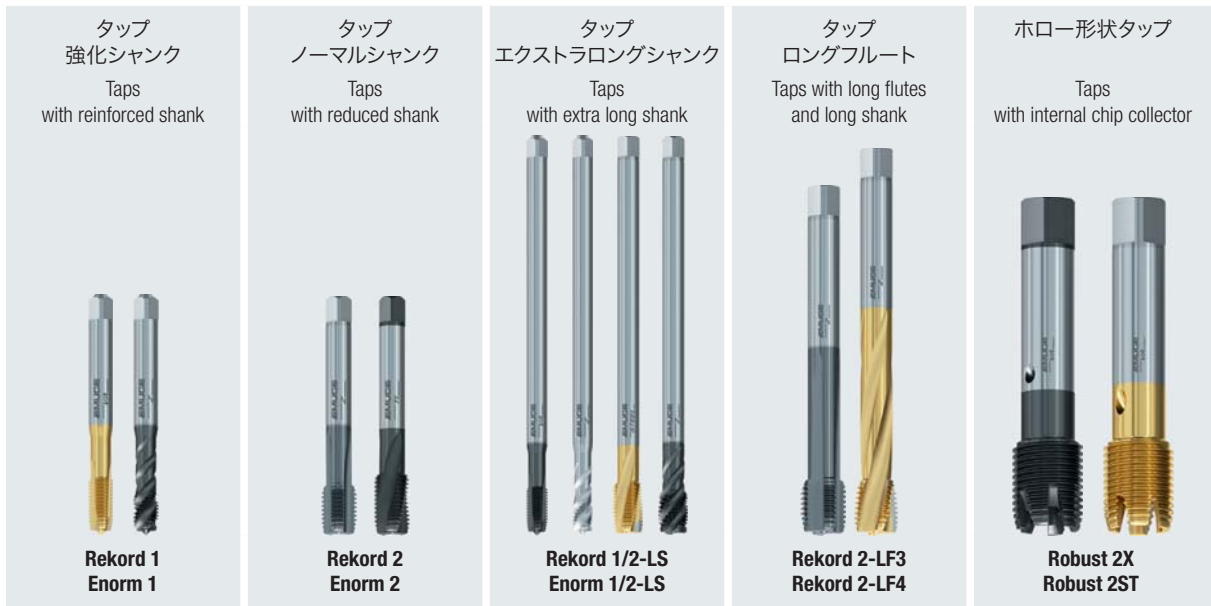
MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd


Zubehör
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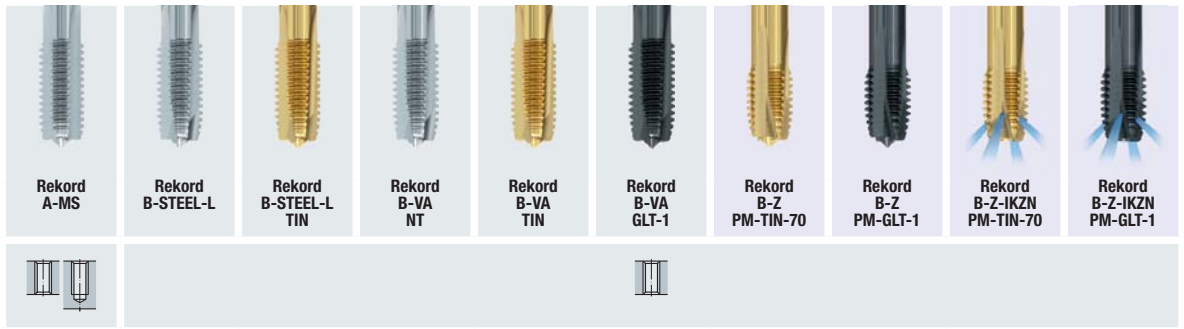
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EG (STI)
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Tr, Tr-F Rd
Zubehör Accessories

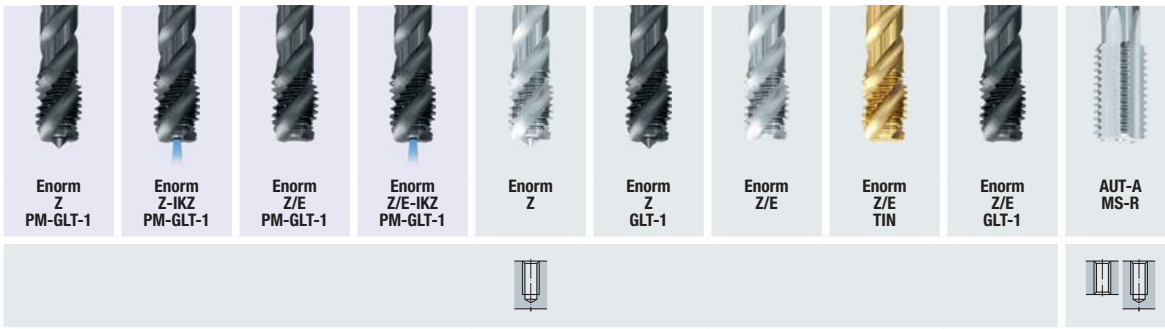


- Product Finder
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G (BSP)	„X“ +0,05										
	„X“ +0,1										
Rp (BSPP)	„X“ +0,05										

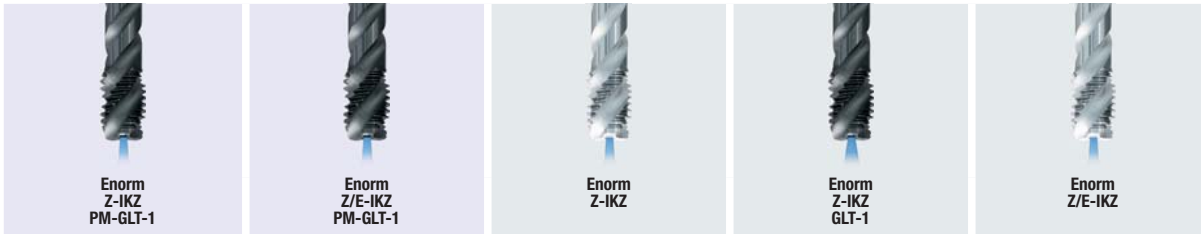


Product Finder
V _c
M
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						237		237	242	„X“ +0,05	G (BSP)
									242	„X“ +0,1	
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IKZ



V_c

M

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Rc, W

BSW, BSF

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SELF-LOCK

Tr, Tr-F

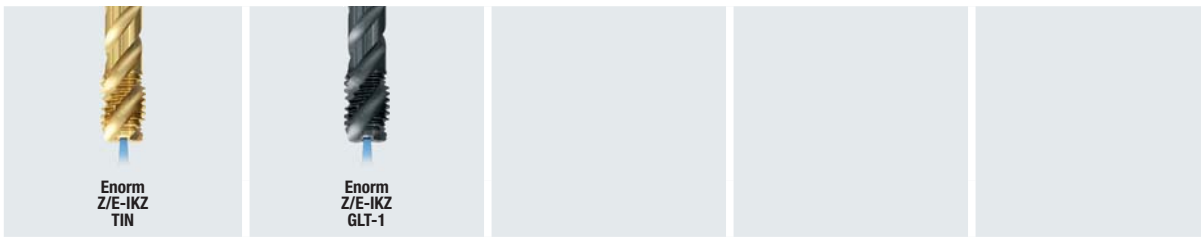
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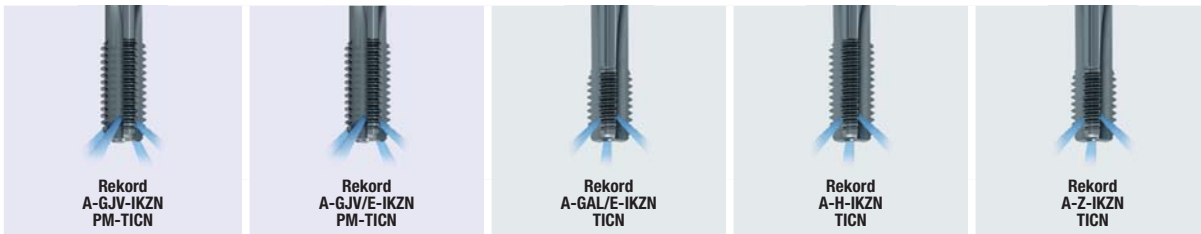


IKZ



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IKZN



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IKZN



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- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

推奨アプリケーションと切削条件

注記:
表中の切削速度(v_c in m/min)は推奨値です。個々の加工環境(被削材、切削油、機械など)に合わせて適宜調整してください。

切削速度の推奨値は呼び径 10 mm の場合を基準にしています。

 = DIN-Form / 食付き山数 (チャンファー長さ)

Application recommendation and cutting data

Please note:
The cutting speeds (v_c in m/min) listed in the respective columns are standard values which have to be adjusted to individual work conditions (material, lubrication, machine etc.).

The recommended cutting speeds are related to a nominal thread diameter of 10 mm.

 = DIN form / threads (chamfer length)

材料規格対照表は 764 - 785 ページをご覧ください

International comparison of materials, see page 764 - 785

適用範囲 - 被削材 Applications - material		引張り強さ Tensile Strength	材種例(DIN他) Material examples	材種例(JIS他) Material examples
P	鋼 1.1 冷間押し出し鋼 機械構造用炭素鋼 快削鋼	≤ 600 N/mm ²	Cq15 S235JR (St37-2) 10SPb20	SPC, SPH, SS400, STKM, SUM22, SWRCH, SWRM
	2.1 機械構造用炭素鋼 浸炭鋼 鋳鋼	≤ 800 N/mm ²	E360 (St70-2) 16MnCr5 GS-25CrMo4	S35C, S45C, SCr415H, SCMn, SMn438, SUM24L
	3.1 浸炭鋼 熱処理鋼 冷間鍛造鋼	≤ 1000 N/mm ²	20MoCr3 42CrMo4 102Cr6	SACM, SCM415H, SCM440H, SCMn, SCPH, SCr440H, SUJ2
	4.1 熱処理鋼 冷間鍛造鋼 窒化鋼	≤ 1200 N/mm ²	50CrMo4 X45NiCrMo4 31CrMo12	SCM445H, SKH, SKS, SKT, SUP
	5.1 高合金鋼 合金工具鋼(冷間金型用) 合金工具鋼(熱間金型用)	≤ 1400 N/mm ²	X38CrMoV5-3 X100CrMoV8-1-1 X40CrMoV5-1	SKD12, SKD61, SKT, SUH, SKH
M	ステンレス 1.1 フェライト、マルテンサイト	≤ 950 N/mm ²	X2CrTi12	SCS, SUS420J2, SUS403
	2.1 オーステナイト	≤ 950 N/mm ²	X6CrNiMoTi17-12-2	SCS, SUH, SUS304, SUS316
	3.1 オーステナイト/フェライト 二相系、析出硬化系	≤ 1100 N/mm ²	X2CrNiMoN22-5-3	SUS329J3L, SUS630, 15-5PH
	4.1 オーステナイト/フェライト 二相系、析出硬化系	≤ 1250 N/mm ²	X2CrNiMoN25-7-4	SUS329J4L, SCS14A,
K	鋳鉄 1.1 ねずみ鋳鉄	100-250 N/mm ²	EN-GJL-200 (GG20)	FC200
	1.2	250-450 N/mm ²	EN-GJL-300 (GG30)	FC300
	2.1 ダクタイル鋳鉄	350-500 N/mm ²	EN-GJS-400-15 (GGG40)	FCD400
	2.2	500-900 N/mm ²	EN-GJS-700-2 (GGG70)	FCD700
	3.1 ハミキュラー鋳鉄	300-400 N/mm ²	GJV 300	FCV300
	3.2	400-500 N/mm ²	GJV 450	FCV400
	4.1 可鍛鋳鉄	250-500 N/mm ²	EN-GJMW-350-4 (GTW-35)	FCMW330
4.2	500-800 N/mm ²	EN-GJMB-450-6 (GTS-45)	FCMW370	
N	非鉄 アルミニウム合金			
	1.1	≤ 200 N/mm ²	EN AW-AlMn1	A1050, A3030
	1.2	≤ 350 N/mm ²	EN AW-AlMgSi	A5052, A6061
	1.3	≤ 550 N/mm ²	EN AW-AlZn5Mg3Cu	A7075
	1.4	Si ≤ 7%	EN AC-AlMg5	ADC5, AC7A
	1.5	7% < Si ≤ 12%	EN AC-AISi9Cu3	ADC11, ADC12, AC2A
	1.6	12% < Si ≤ 17%	GD-AISi17Cu4FeMg	ADC14
	2.1 純銅、低合金銅	≤ 400 N/mm ²	E-Cu 57	純銅, C2400
	2.2 黄銅	≤ 550 N/mm ²	CuZn37 (Ms63)	C2720, C2801
	2.3 快削黄銅	≤ 550 N/mm ²	CuZn36Pb3 (Ms58)	C3560, C3710
	2.4 アルミ青銅	≤ 800 N/mm ²	CuAl10Ni5Fe4	C5210, C6280
	2.5 青銅	≤ 700 N/mm ²	CuSn8P	LBC3
	2.6 快削青銅	≤ 400 N/mm ²	CuSn7 ZnPb (Rg7)	BC3
	2.7 特殊銅合金	≤ 600 N/mm ²	(AMPCO® 8)	
	2.8	≤ 1400 N/mm ²	(AMPCO® 45)	
	3.1 マグネシウム合金	≤ 500 N/mm ²	MgAl6Zn	
3.2 マグネシウム合金	≤ 500 N/mm ²	EN-MCMgAl9Zn1	MC2A, MD1A	
合成樹脂				
4.1 熱硬化性樹脂		Bakelit, Pertinax		
4.2 熱可塑性樹脂		PMMA, POM, PVC		
4.3 繊維強化樹脂(繊維含有量<30%)		GFK, CFK, AFK		
4.4 繊維強化樹脂(繊維含有量>30%)		GFK, CFK, AFK		
特殊材料				
5.1 グラファイト		C 8000		
5.2 タングステン-銅合金		W-Cu 80/20		
5.3 複合材料		Hyllite, Alucobond		
S	耐熱合金 チタン合金			
	1.1 純チタン	≤ 450 N/mm ²	Ti1	純チタン
	1.2	≤ 900 N/mm ²	TiAl6V4	Ti-6Al-4V
	1.3	≤ 1250 N/mm ²	TiAl4Mo4Sn2	TiAl4Mo4Sn2
	2.1 ニッケル基合金、コバルト基合金、鉄基合金			
	2.2 純ニッケル	≤ 600 N/mm ²	Ni 99.6	純ニッケル
	2.3	≤ 1000 N/mm ²	Monel 400	モネル 400, ハステロイ B
	2.4	≤ 1600 N/mm ²	Inconel 718	インコネル 718
	2.5	≤ 1000 N/mm ²	Udimet 605	Udimet 605
	2.6	≤ 1600 N/mm ²	Haynes 25	ヘインズ 25
H	高硬度鋼 1.1	44 - 50 HRC	Weldox 1100	SKT4
	1.2	50 - 55 HRC	Hardox 550	ハードックス550
	1.3	55 - 60 HRC	Armox 600T	SKD61
	1.4	60 - 63 HRC	Ferro-Titanit	SKD11
	1.5	63 - 66 HRC	HSSE	

Rekord A-STEEL	Rekord B-STEEL-L	Rekord B-STEEL-L TIN	Rekord B-STEEL-L GLT-1	Rekord B-STEEL-H PM-ALCR-102	Rekord B-STEEL-H PM-ALCR-101	Rekord D-STEEL	Rekord D-STEEL/E	Rekord DF-STEEL TIN	Enorm STEEL	Enorm STEEL TIN	
C / 2-3	B / 4-5	B / 4-5	B / 4-5	B ≈6	B ≈6	C / 2-3	E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	
max. 2 x d ₁ 		max. 3 x d ₁ 				max. 2 x d ₁ 		max. 2,5 x d ₁ 			
92, 120, 150 162, 168, 194	92, 117, 120, 143, 150 162, 168 204, 208 216, 220	92, 120 162, 168	92	94, 122 163, 171	94, 122 163, 171	94, 122, 150 172	94, 117, 122, 143 172	95, 117, 123, 143	95, 123 172 204, 208 216, 220	95, 123 172 204, 208 216, 220	
224 228 232, 238, 243 246, 247	232	232				232	228 233	233	233	212 233	
270, 271 273									267		
min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.
	5 15 25	15 25 45	15 25 45						5 15 25	15 25 45	1.1
	5 10 20	10 20 40	10 20 40			5 10 20	5 10 20		5 10 20	10 20 40	2.1
	2 8 15	5 15 25	5 15 25	15 35 45	15 35 45	2 8 15	2 8 15	5 15 20	2 8 15	5 15 25	3.1
		5 10 15	5 10 15	15 35 45	15 35 45			5 10 15			4.1
				5 10 15	5 10 15						5.1
											1.1
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											3.1
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5 15 25											1.1
5 15 25											1.2
5 10 20											2.1
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5 10 20											4.1
5 10 20											4.2
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											1.4
											1.5
											1.6
											2.1
10 20 40	10 20 40								10 20 40	10 25 40	2.2
											2.3
											2.4
											2.5
											2.6
											2.7
											2.8
											3.1
											3.2
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											2.5
											2.6
											1.1
											1.2
											1.3
											1.4
											1.5

Product Finder

V_c

M

MF

UNC UN-8

UNC UNF

G, Rp NPSM, NPSF

NPT, NPTF Rc, W

BSW, BSF Pg MJ UNJC, UNJF EG (STI) LK-M Tr, Tr-F, Rd

vc [m/min]

EG (STI)

SELF-LOCK

Tr, Tr-F Rd

Zubehör Accessories



vc in m/min

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
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	Rekord B-VA NT	Rekord B-VA TIN	Rekord B-VA GLT-1	Enorm VA	Robust 2X-VA NE2	Robust 2X-VA TIN	Robust 2ST-VA NE2	Robust 2ST-VA TIN	Enorm INOX GLT-201
MF	B / 4-5	B / 4-5	B / 4-5	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3
UNC UN-8	max. 3 x d ₁			max. 2,5 x d ₁		max. 1,5 x d ₁			max. 2,5 x d ₁
UNF UNEF	95,118,123,144,151	95,123	95,118,123,144	97,118,125,144	148	148	149	149	98,126
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NPT, NPTF	217,221	217,221	217,221	217,221					217,221
Rc, W	233	228	229	234					234
BSW, BSF		233	233						
Pg			266,267						
MJ UNJC, UNJF									
EG (STI)			280-289						
SELF-LOCK			290,292						
Tr, Tr-F Rd									
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V _c [m/min]	min. 推奨		max.		min. 推奨		max.		min. 推奨		max.		min. 推奨		max.		min. 推奨		max.																						
	1.1	2.1	3.1	4.1	5.1	1.1	2.1	3.1	4.1	5.1	1.1	2.1	3.1	4.1	5.1	1.1	2.1	3.1	4.1	5.1																					
P	1.1					15	25	45	15	25	45	5	15	25	2	3	8	2	3	8	2	3	8	2	3	8															
	2.1	5	10	20	10	20	40	10	20	40	5	10	20	2	3	6	2	3	6	2	3	6	2	3	6																
	3.1	2	8	15	5	15	25	5	15	25	2	8	15	1	3	6	1	3	6	1	3	6	1	3	6																
	4.1				5	10	15	5	10	15																															
	5.1																																								
M	1.1																																								
	2.1																																								
	3.1																																								
	4.1																																								
	5.1																																								
K	1.1																																								
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N	1.1																																								
	1.2																																								
	1.3																																								
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	1.6																																								
	2.1																																								
	2.2	10	20	40																																					
	2.3																																								
	2.4																																								
2.5	2	5	10																																						
2.6																																									
2.7																																									
2.8																																									
S	3.1																																								
	3.2																																								
	4.1																																								
	4.2																																								
	4.3																																								
	4.4																																								
H	5.1																																								
	5.2																																								
	5.3																																								
	1.1																																								
	1.2																																								

V_c in m/min

Rekord A-GG NT		Rekord A-GG TICN		Rekord A-GJV PM-TICN		Rekord A-GJV- IKZ PM-TICN		Rekord A-GJV- IKZN PM-TICN		Rekord A-GJV/E- IKZ PM-TICN		Rekord A-GJV/E- IKZ PM-TICN		HM-Rekord A-GJV- IKZ TICN	HM-Rekord A-GJV/E- IKZ TICN	Rekord B-AL								
C / 2-3		C / 2-3		C / 2-3		C / 2-3		C / 2-3		E / 1,5-2		E / 1,5-2		C / 2-3	E / 1,5-2	B / ≈3								
max. 2 x d ₁		max. 2 x d ₁		max. 2 x d ₁		max. 2 x d ₁		max. 2 x d ₁		max. 2 x d ₁		max. 2 x d ₁		max. 2 x d ₁		max. 3 x d ₁								
98,126 176	98,126 176	99,127 176	99,127 176	99,127 177	99,127 177	99,127 177	99,127 177	99,127 177	99,127 177	99,127 177	99,127 177	99,127 177	99,127 177	99,127 177	99,127 177	100,128								
290,292																								
min. 推奨 rec. max.		min. 推奨 rec. max.		min. 推奨 rec. max.		min. 推奨 rec. max.		min. 推奨 rec. max.		min. 推奨 rec. max.		min. 推奨 rec. max.		min. 推奨 rec. max.		min. 推奨 rec. max.								
																	1.1							
																	2.1							
																	3.1							
																	4.1							
																	5.1							
																	1.1							
																	2.1							
																	3.1							
																	4.1							
																	1.1							
10	15	25	15	30	45	15	45	60	15	45	60	15	45	60	40	60	80	40	60	80	1.1			
10	15	20	10	25	40	10	40	60	10	40	60	10	40	60	30	45	60	30	45	60	1.2			
						10	30	60	10	30	60	10	30	60	10	30	60	30	45	60	30	45	60	2.1
						10	20	40	10	20	40	10	20	40	10	20	40	10	20	40	10	20	40	2.2
						10	30	60	10	30	60	10	30	60	10	30	60	20	30	40	20	30	40	3.1
						10	30	60	10	30	60	10	30	60	10	30	60	20	30	40	20	30	40	3.2
						15	30	45	15	30	45	15	30	45	15	30	45	40	60	80	40	60	80	4.1
						15	30	45	15	30	45	15	30	45	15	30	45	30	45	60	30	45	60	4.2
																								1.1
																								1.2
																								1.3
																								1.4
																								1.5
																								1.6
																								2.1
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																								2.4
																								2.5
																								2.6
																								1.1
																								1.2
																								1.3
																								1.4
																								1.5

Product
Finder

V_C

M

MF

UNC
UN-8
Thread depth
and hole type

M
MF
UNC
UNF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF
Pg
MJ

UNJC, UNJF

Pg

Tr, Tr-F, Rd

V_C [m/min]

EG (STI)

SELF-LOCK


Tr, Tr-F
Rd

Zubehör
Accessories



1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Product Finder	EMUGE AL				EMUGE GAL				EMUGE MG	EMUGE FK		
	Rekord B-AL GLT-104	Enorm AL	Enorm AL GLT-104	Enorm AL/E GLT-104	Rekord A-GAL/E- IKZ TiCN	Rekord A-GAL/E- IKZN TiCN	Rekord D-GAL/E- IKZ TiCN	HM-Rekord D-GAL/E- IKZ TiCN	Rekord A-MG GLT-1	Rekord A-FK NT	HM-Rekord A-FK- IKZ	
V_c												
M												
MF		C / 2-3	C / 2-3	E / 1,5-2	E / 1,5-2	E / 1,5-2	E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	
UNC UN-8	max. 3 x d ₁ 		max. 2,5 x d ₁ 		max. 2 x d ₁ 	max. 2 x d ₁ 		max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	
UNF UNEF	100,128	100,128 178	100,128	101	101	101	101	101	101	102	102	
G, Rp NPSM, NPSF												
NPT, NPTF Rc, W												
BSW, BSF												
Pg												
MJ UNJC, UNJF												
v_c [m/min]	min. 推奨 rec.	min. 推奨 rec.	min. 推奨 rec.	min. 推奨 rec.	min. 推奨 rec.	min. 推奨 rec.	min. 推奨 rec.	min. 推奨 rec.	min. 推奨 rec.	min. 推奨 rec.	min. 推奨 rec.	
EG (STI)												
SELF-LOCK												
Tr, Tr-F Rd												
Zubehör Accessories												
P	1.1											
	2.1											
	3.1											
	4.1											
	5.1											
M	1.1											
	2.1											
	3.1											
	4.1											
K	1.1											
	1.2									40	60	
	2.1									30	45	
	2.2									10	20	
	3.1									20	30	
	3.2									20	30	
	4.1									40	60	
4.2									30	45		
N	1.1	15	25	40	15	25	40	15	25	40		
	1.2	15	25	40	15	25	40	15	25	40		
	1.3	15	25	40	15	25	40	15	25	40		
	1.4	15	25	40	5	15	25	15	25	40		
	1.5							30	50	80	30	50
	1.6							10	20	30	10	20
	2.1	5	15	30	5	15	30	5	15	30		
	2.2											
	2.3											
	2.4											
	2.5											
	2.6										10	20
	2.7										5	10
	2.8										1	5
	3.1									20	40	60
	3.2									20	40	60
4.1										5	10	
4.2										20	40	
4.3										5	10	
4.4										10	15	
5.1										20	40	
5.2										5	10	
5.3												
S	1.1											
	1.2											
	1.3											
	2.1											
	2.2											
	2.3											
2.4												
2.5												
2.6												
H	1.1											
	1.2											
	1.3											
	1.4											
	1.5											

EMUGE PVC		EMUGE MS		EMUGE TI				EMUGE TILEG		EMUGE NI		EMUGE H		Product Finder
Rekord D-PVC/E CRN	Rekord A-MS	Rekord C-TI NT2	Rekord C-TI TICN	Rekord D-TI NT2	Rekord D-TI TICN	Rekord DF-TILEG TICN	Rekord C-NI PM-TICN	Rekord DF-NI PM-TICN	Rekord A-H NT	Rekord A-H TICN	V _c			
E / 1,5-2	C / 2-3	D / 4-5	D / 4-5	C / 2-3	C / 2-3	C / 2-3	D / 4-5	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3	 穴形状と ねじ深さ Thread depth and hole type	
max. 2 x d ₁	max. 2 x d ₁	max. 3 x d ₁		max. 2 x d ₁		max. 2 x d ₁	max. 3 x d ₁	max. 2 x d ₁	max. 2 x d ₁		M MF UNC UNF G, Rp NPSM, NPSF NPT, NPTF Rc, W BSW, BSF Pg MJ UNJC, UNJF EG (STI) LK-M Tr, Tr-F, Rd V _c [m/min]			
102	103,151	103,129	103,129	103,129	103,129	103	104,129	104,129	104,119,130,145 163,178 205,209 217,221	105,130 178	235 235 273			
	264													
min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.		
													1.1	
													2.1	
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													3.2	
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													4.2	
													4.3	
													4.4	
													5.1	
													5.2	
													5.3	

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



V_c in m/min

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Product Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

Zubehör
Accessories



	Rekord A-H-IKZ NT	Rekord A-H-IKZ TiCN	Rekord A-H-IKZN TiCN	HM-Rekord A-H-IKZ	HM-Rekord A-H/E-IKZ	Rekord A-HCUT PM-TiCN	HM-Rekord A-HCUT/D TiCN	HM-Rekord A-HCUT/D-IKZ TiCN	HM-Rekord A-HCUT/C TiCN	HM-Rekord A-HCUT/C-IKZ TiCN	Rekord A-Z TiCN
	C / 2-3	C / 2-3	C / 2-3	C / 2-3	E / 1,5-2	C / 2-3	D / 4-5	D / 4-5	C / 2-3	C / 2-3	C / 2-3

穴形状とねじ深さ Thread depth and hole type	max. 2 x d ₁ 		max. 2 x d ₁ 		max. 2 x d ₁ 		max. 1,5 x d ₁ 		max. 1,5 x d ₁ 		max. 2 x d ₁ 	
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M	105,130	105,130	105,131	105,131	105,131	105,131	106	132	106	132	107,133
MF	179	179	179	163,179		164,179	165		165		180
UNC											
UNF											
UNEF											
G, Rp					235	230,235	231		231		
NPSM, NPSF											
NPT, NPTF											
Rc, W											
BSW, BSF											
Pg											
MJ											
UNJC, UNJF											
EG (STI)											
SELF-LOCK											
Tr, Tr-F											
Rd											
Zubehör											
Accessories											

P	1.1											
	2.1											
	3.1											
	4.1											
	5.1											

M	1.1											
	2.1											
	3.1											
	4.1											

K	1.1	10	15	25	15	30	45	15	30	45	40	60	80	40	60	80			15	30	45
	1.2	10	15	25	15	30	45	15	30	45	30	45	60	30	45	60			15	30	45
	2.1	10	15	25	15	30	45	15	30	45	30	45	60	30	45	60			15	30	45
	2.2	5	10	15	10	20	40	10	20	40	10	20	40	10	20	40			10	20	40
	3.1	5	10	15	15	30	45	15	30	45	20	30	40	20	30	40			15	30	45
	3.2	5	10	15	15	30	45	15	30	45	20	30	40	20	30	40			15	30	45
	4.1	10	15	25	10	20	30	10	20	30	40	60	80	40	60	80			10	20	30
4.2	10	15	25	10	20	30	10	20	30	30	45	60	30	45	60			10	20	30	












N	1.1																				
	1.2																				
	1.3																				
	1.4																				
	1.5				30	50	80	30	50	80	20	40	60	20	40	60			30	50	80
	1.6				10	20	30	10	20	30	20	30	40	20	30	40			10	20	30

N	2.1																				
	2.2																				
	2.3																				
	2.4																				
	2.5																				
	2.6				10	20	30	10	20	30	10	20	30	10	20	30			10	20	30
	2.7										5	10	15	5	10	15					
	2.8										1	5	8	1	5	8					

N	3.1																				
	3.2																				
	4.1	5	10	25	10	20	40	10	20	40	20	40	60	20	40	60			10	20	40
	4.2																				
	4.3										10	15	25	10	15	25					
	4.4										5	10	15	5	10	15					
	5.1				10	25	40	10	25	40	20	40	60	20	40	60					
	5.2										5	10	20	5	10	20					
5.3																					

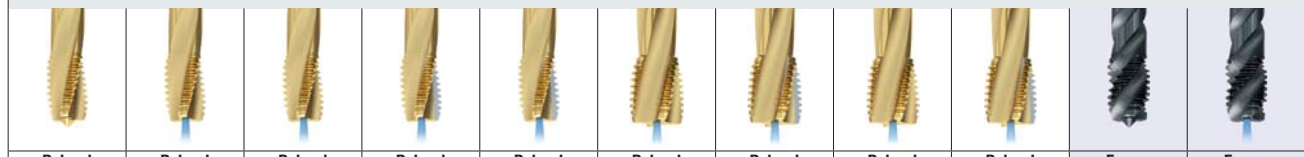
S	1.1																				
	1.2																				
	1.3																				
	2.1																				
	2.2																				
	2.3																				
	2.4																				

H	1.1																				
	1.2																				
	1.3																				
	1.4																				
	1.5																				

Rekord A-Z- IKZ TiCN	Rekord A-Z- IKZN TiCN	Rekord A-Z/ E TiCN	Rekord A-Z/ E- IKZ TiCN	Rekord A-Z/ E- IKZN TiCN	Rekord A-Z- IKZ-LF3 TiCN	Rekord A-Z- IKZ-LF4 TiCN	Rekord B-Z PM-TiN-70	Rekord B-Z PM-GLT-1	Rekord B-Z- IKZN PM-TiN-70	Rekord B-Z- IKZN PM-GLT-1	
C / 2-3	C / 2-3	E / 1,5-2	E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3	B / 4-5	B / 4-5	B / 4-5	B / 4-5	
max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 3 x d ₁ 	max. 4 x d ₁ 	max. 3 x d ₁ 				
107,133 180	107,133 180	107,133 180	108,134 181	108,134 181	146 188	147 189	108,134 166,181	108,134 166,181	109,135 181	109,135 181	
min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	V _c [m/min]
								15 25 45		15 25 45	1.1
							10 20 40	10 20 40	10 20 40	10 20 40	2.1
					5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	3.1
					5 10 15	5 10 15	5 10 15	5 10 15	5 10 15	5 10 15	4.1
							2 8 10	2 8 10	2 8 10	2 8 10	5.1
								5 8 12		5 8 12	1.1
								5 8 12		5 8 12	2.1
								2 5 8		2 5 8	3.1
								2 5 8		2 5 8	4.1
15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45		5 15 25		5 15 25	1.1
15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45		5 15 25		5 15 25	1.2
15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45		5 10 20		5 10 20	2.1
10 20 40	10 20 40	10 20 40	10 20 40	10 20 40	10 20 40	10 20 40		5 10 20		5 10 20	2.2
15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45		5 10 20		5 10 20	3.1
15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45	15 30 45		5 10 20		5 10 20	3.2
10 20 30	10 20 30	10 20 30	10 20 30	10 20 30	10 20 30	10 20 30					4.1
10 20 30	10 20 30	10 20 30	10 20 30	10 20 30	10 20 30	10 20 30					4.2
											1.1
											1.2
											1.3
								15 30 40		15 30 40	1.4
30 50 80	30 50 80	30 50 80	30 50 80	30 50 80	30 50 80	30 50 80					1.5
10 20 30	10 20 30	10 20 30	10 20 30	10 20 30	10 20 30	10 20 30					1.6
								5 15 30		5 15 30	2.1
								10 25 40		10 25 40	2.2
											2.3
								5 15 25		5 15 25	2.4
								5 15 25		5 15 25	2.5
10 20 30	10 20 30	10 20 30	10 20 30	10 20 30	10 20 30	10 20 30					2.6
											2.7
											2.8
											3.1
											3.2
10 20 40	10 20 40	10 20 40	10 20 40	10 20 40	10 20 40	10 20 40					4.1
											4.2
											4.3
											4.4
											5.1
											5.2
											5.3
								1 5 7		1 5 7	1.1
											1.2
											1.3
											2.1
								1 3 5		1 3 5	2.2
								1 3 5		1 3 5	2.3
											2.4
											2.5
											2.6
											1.1
											1.2
											1.3
											1.4
											1.5

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF Pg MJ UNJC, UNJF EG (STI) LK-M Tr, Tr-F, Rd
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



	Rekord D-Z TIN	Rekord D-Z-IKZ TIN	Rekord D-Z-E-IKZ TIN	Rekord D-Z-BF-IKZ TIN	Rekord D-Z-E-BF-IKZ TIN	Rekord D-Z-IKZ-LF3 TIN	Rekord D-Z-BF-IKZ-LF3 TIN	Rekord D-Z-IKZ-LF4 TIN	Rekord D-Z-BF-IKZ-LF4 TIN	Enorm Z-PM GLT-1	Enorm Z-IKZ-PM GLT-1
MF	C / 2-3	C / 2-3	E / 1,5-2	C / 2-3	E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3
UNC UN-8	max. 2 x d ₁		max. 3 x d ₁		max. 4 x d ₁		max. 3 x d ₁		max. 3 x d ₁		
UNF UNEF	109,135	109,135	110,136	110,119,136,145	110,136	146	146	147	147	111,137	111,137
G, Rp NPSM, NPSF	181	181	182	182	182	188	188	189	189	183	183
NPT, NPTF Rc, W										206,210	218
BSW, BSF Pg MJ UNJC, UNJF EG (STI) LK-M Tr, Tr-F, Rd										235	
V _c [m/min]	min. 109,135 max. 181	min. 109,135 max. 181	min. 110,136 max. 182	min. 110,119,136,145 max. 182	min. 110,136 max. 182	min. 146 max. 188	min. 146 max. 188	min. 147 max. 189	min. 147 max. 189	min. 111,137 max. 183	min. 111,137 max. 183
P	1.1									15 25 45	15 25 45
	2.1									10 20 40	10 20 40
	3.1	5 15 20	5 15 20	5 15 20	5 15 20	5 15 20	5 15 20	5 15 20	5 15 20	5 15 25	5 15 25
	4.1	5 10 15	5 10 15	5 10 15	5 10 15	5 10 15	5 10 15	5 10 15	5 10 15	5 10 15	5 10 15
	5.1	2 7 10	2 7 10	2 7 10	2 7 10	2 7 10	2 7 10	2 7 10	2 7 10		
M	1.1									5 8 12	5 8 12
	2.1									2 5 8	2 5 8
	3.1									2 5 8	2 5 8
	4.1									2 5 8	2 5 8
K	1.1									5 15 25	5 15 25
	1.2									5 15 25	5 15 25
	2.1									5 10 20	5 10 20
	2.2									5 10 20	5 10 20
	3.1									5 10 20	5 10 20
	3.2									5 10 20	5 10 20
	4.1									5 10 20	5 10 20
	4.2										
N	1.1										
	1.2										
	1.3										
	1.4									15 25 40	15 25 40
	1.5										
	1.6										
	2.1									5 15 30	5 15 30
	2.2									10 25 40	10 25 40
	2.3										
	2.4	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25
	2.5	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25	5 15 25
	2.6										
	2.7										
	2.8										
	3.1										
3.2											
4.1											
4.2											
4.3											
4.4											
5.1											
5.2											
5.3											
S	1.1									1 3 5	1 3 5
	1.2										
	1.3										
	2.1										
	2.2										
	2.6										
H	1.1										
	1.2										
	1.3										
	1.4										
	1.5										

V_c in m/min



Enorm Z/E PM-GLT-1	Enorm Z/E-IKZ PM-GLT-1	Enorm Z	Enorm Z TIN	Enorm Z GLT-1	Enorm Z-IKZ	Enorm Z-IKZ GLT-1	Enorm Z/E	Enorm Z/E TIN	Enorm Z/E GLT-1	Enorm Z/E-IKZ
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E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3	E / 1,5-2	E / 1,5-2	E / 1,5-2	E / 1,5-2
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max. 3 x d₁



六角状とねじ深さ
Thread depth and hole type

111,137 183	111,137	112,119,138,145 166,183 206,210 218,222 212,229 236	112,138	112,119,138,145 166,185 206,210 218,222 229 236	138	112,139	113,139,151 167,185 206,210 218,222	113,139 185 207,211 219,222	113,139 167,185 207,211 219,223	113 186
235	236						236,244 246,247	237	237,244 246,247	
		266,268		266,268						
		277,279 281,283		277,279 281,283			281-289 291,293		281-289 291,293	

M
MF
UNC
UN-8
UNF
UNF
G, Rp
NPSM, NPSF
NPT, NPTF
Rc, W
BSW, BSF
Pg
MJ
UNJC, UNJF
EG (STI)
LK-M
Tr, Tr-F, Rd
V_c [m/min]

min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.
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15 25 45	15 25 45	5 15 25	15 25 45	15 25 45	5 15 25	15 25 45	5 15 25	15 25 45	5 15 25	15 25 45	5 15 25	5 15 25	1.1
10 20 40	10 20 40	5 10 20	10 20 40	10 20 40	5 10 20	10 20 40	5 10 20	10 20 40	5 10 20	10 20 40	5 10 20	5 10 20	2.1
5 15 25	5 15 25	2 8 15	5 15 25	5 15 25	2 8 15	5 15 25	2 8 15	5 15 25	5 15 25	5 15 25	2 8 15	2 8 15	3.1
5 10 15	5 10 15		5 10 15	5 10 15		5 10 15		5 10 15	5 10 15	5 10 15			4.1
													5.1

5 8 12	5 8 12			5 8 12		5 8 12			5 8 12				1.1
2 5 8	2 5 8			2 5 8		2 5 8			2 5 8				2.1
2 5 8	2 5 8			2 5 8		2 5 8			2 5 8				3.1
2 5 8	2 5 8			2 5 8		2 5 8			2 5 8				4.1

5 15 25	5 15 25												1.1
5 15 25	5 15 25												1.2
5 10 20	5 10 20												2.1
5 10 20	5 10 20												2.2
5 10 20	5 10 20												3.1
5 10 20	5 10 20												3.2
5 10 20	5 10 20												4.1
5 10 20	5 10 20												4.2

													1.1
													1.2
													1.3
15 25 40	15 25 40			15 25 40		15 25 40			15 25 40				1.4
													1.5
													1.6

5 15 30	5 15 30			5 15 30		5 15 30			5 15 30				2.1
10 25 40	10 25 40			10 25 40		10 25 40			10 25 40				2.2
													2.3
5 15 25	5 15 25			5 15 25		5 15 25			5 15 25				2.4
5 15 25	5 15 25			5 15 25		5 15 25			5 15 25				2.5
													2.6
													2.7
													2.8

													3.1
													3.2
													4.1
													4.2
													4.3
													4.4
													5.1
													5.2
													5.3

1 3 5	1 3 5			1 3 5		1 3 5			1 3 5				1.1
													1.2
													1.3
													2.1
													2.2
													2.3
													2.4
													2.5
													2.6

													1.1
													1.2
													1.3
													1.4
													1.5

Product Finder
V_c
M
MF
UNC
UN-8
UNF
UNF
G, Rp
NPSM, NPSF
NPT, NPTF
Rc, W
BSW, BSF
Pg
MJ
UNJC, UNJF
EG (STI)
LK-M
Tr, Tr-F, Rd
V_c [m/min]
EG (STI)
SELF-LOCK
Tr, Tr-F
Rd
Zubehör
Accessories



v_c in m/min

Product Finder		EMUGE Z				SET		
V _c								
M		Enorm Z/E-IKZ TIN	Enorm Z/E-IKZ GLT-1	Enorm Z50	Enorm Z50 GLT-1	HGB-Set	HM-Set	WM-Set
MF		E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	C / ≈3	C / 2-3
UNC UN-8	穴形状とねじ深さ Thread depth and hole type	max. 3 x d ₁ 				max. 2 x d ₁ 		
UNF UNEF	M	113,139	113,139	116,142	116,142	152	153	154
G, Rp NPSM, NPSF	MF	186	186			196	199	200
NPT, NPTF Rc, W	UNC					213		214
BSW, BSF	UNF					225		226
Pg	UNEF, UN-8					239		240
MJ UNJC, UNJF	G, Rp							
EG (STI)	NPSM, NPSF							
SELF-LOCK	NPT, NPTF, Rc							
Tr, Tr-F Rd	W					269,272		
Zubehör Accessories	BSW, BSF							
	Pg							
	UNJC, UNJF							
	EG (STI)							
	LK-M							
	Tr, Tr-F, Rd							
	v _c [m/min]	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.
P	1.1	15 25 45	15 25 45	5 15 25	15 25 45	1 2 3		1 2 3
	2.1	10 20 40	10 20 40	5 10 20	10 20 40	1 2 3		1 2 3
	3.1	5 15 25	5 15 25	2 8 15	5 15 25	1 2 3		1 2 3
	4.1	5 10 15	5 10 15		5 10 15			1 2 3
	5.1						1 2 3	1 2 3
	M	1.1		5 8 12		5 8 12		
2.1			2 5 8		2 5 8			1 2 3
3.1			2 5 8		2 5 8			1 2 3
4.1			2 5 8		2 5 8			1 2 3
5.1								
K	1.1							1 2 3
	1.2							1 2 3
	2.1							1 2 3
	2.2							1 2 3
	3.1							1 2 3
	3.2							1 2 3
	4.1							1 2 3
	4.2							1 2 3
N	1.1							1 2 3
	1.2							1 2 3
	1.3							1 2 3
	1.4		15 25 40		15 25 40			1 2 3
	1.5							1 2 3
	1.6							1 2 3
	2.1		5 15 30		5 15 30			1 2 3
	2.2	10 25 40	10 25 40		10 25 40			1 2 3
	2.3							1 2 3
	2.4	5 15 25	5 15 25		5 15 25			1 2 3
	2.5	5 15 25	5 15 25		5 15 25			1 2 3
	2.6							1 2 3
	2.7							1 2 3
	2.8						1 2 3	
	3.1							
	3.2							
4.1								
4.2								
4.3								
4.4								
5.1								
5.2						1 2 3		
5.3								
S	1.1	1 3 5	1 3 5		1 3 5			
	1.2							
	1.3							
	2.1							1 2 3
	2.2							1 2 3
	2.3							1 2 3
	2.4							1 2 3
2.5							1 2 3	
2.6							1 2 3	
H	1.1						1 2 3	
	1.2						1 2 3	
	1.3						1 2 3	
	1.4						1 2 3	
	1.5						1 2 3	

AUT-A

KOMBI

MMB

Product
Finder

V_c

M

MF

UNC
UN-8

UNC
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

Zubehör
Accessories



WM-Set
TIN

WM-F-TIC-Set
NT

AUT-A
MS-R

KOMBI

MMB
DIN 357

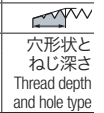
C/2-3

C/2-3

max. 1

C/2-3

-



156

158

202

160

161

203

242,245

M
MF
UNC
UNF
G, Rp
NPSM, NPSF
NPT, NPTF
Rc, W
BSW, BSF
Pg
MJ
UNJC, UNJF
EG (STI)
LK-M
Tr, Tr-F, Rd
V_c [m/min]

min. 推奨 max.
rec.

min. 推奨 max.
rec.

min. 推奨 max.
rec.

min. 推奨 max.
rec.

min. 推奨 max.
rec.

1 2 3

1 2 3

5 15 25

1.1

1 2 3

5 10 20

5 10 20

2.1

1 2 3

1 2 3

2 8 15

3.1

1 2 3

1 2 3

4.1

1 2 3

1 2 3

5.1

1 2 3

1 2 3

1 2 3

1 2 3

1.1

2.1

3.1

4.1

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1.1

1.2

2.1

2.2

3.1

3.2

4.1

4.2

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1.1

1.2

1.3

1.4

1.5

1.6

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

10 25 40

10 20 40

10 20 40

2.1

2.2

2.3

2.4

2.5

2.6

2.7

2.8

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

5 10 20

3.1

3.2

4.1

4.2

4.3

4.4

5.1

5.2

5.3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

1 2 3

2.1

2.2

2.3

2.4

2.5

2.6









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





1.2

1.3

1.4

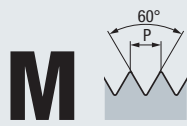
1.5

Product Finder	KEG	EMUGE -STEEL-		EMUGE -VA-				EMUGE -NI-
								
V _c								
M		Rekord KEG STEEL	Rekord KEG STEEL-AZ	Rekord KEG VA	Rekord KEG VA-AZ	Rekord KEG R35-VA	Rekord KEG R35-VA-AZ	Rekord KEG R10-NI PM-TiCN
MF		C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3
UNC UN-8	穴形状とねじ深さ Thread depth and hole type	—	—	—	—	—	—	—
UNF UNEF	M MF UNC UNF							
G, Rp NPSM, NPSF	UNEf, UN-8 G, Rp NPSM, NPSF							
NPT, NPTF Rc, W	NPT, NPTF, Rc W	249, 251, 253, 255, 257, 262, 263	253	249, 251, 255, 257, 261	249, 251	250, 252, 255, 257	250, 252	250, 256
BSW, BSF Pg MJ UNJC, UNJF	BSW, BSF Pg MJ UNJC, UNJF							
Pg	EG (STI) LK-M							
MJ UNJC, UNJF	Tr, Tr-F, Rd							
EG (STI)	v _c [m/min]	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.	min. 推奨 rec. max.
P	1.1					2 5 8	2 5 8	
	2.1			2 3 6	2 3 6	2 4 6	2 4 6	
	3.1	1 3 8	1 3 8	1 4 8	1 4 8	1 5 8	1 5 8	
	4.1			1 3 5	1 3 5			
	5.1							
M	1.1					1 5 8	1 5 8	
	2.1					1 5 8	1 5 8	
	3.1					1 3 5	1 3 5	
	4.1							
K	1.1	2 4 10	2 4 10					
	1.2	2 4 10	2 4 10					
	2.1			1 3 5	1 3 5			
	2.2			1 3 5	1 3 5			
	3.1			1 3 5	1 3 5			
	3.2			1 3 5	1 3 5			
	4.1			1 3 5	1 3 5			
	4.2			1 3 5	1 3 5			
N	1.1							
	1.2							
	1.3							
	1.4							
	1.5			1 3 5	1 3 5			
	1.6							
	2.1							
	2.2							
	2.3	2 4 10	2 4 10					
	2.4							
	2.5							
	2.6			1 3 5	1 3 5			
	2.7							
	2.8							1 3 5
	3.1							
3.2								
4.1								
4.2								
4.3								
4.4								
5.1								
5.2								
5.3								
S	1.1							
	1.2							
	1.3							
	2.1							
	2.2							
	2.6							1 4 8
H	1.1							
	1.2							
	1.3							
	1.4							
	1.5							

TRAPEZ	EMUGE -STEEL-		EMUGE -VA-		EMUGE -MS-	RUND	EMUGE -STEEL-	Product Finder
	TRAPEZ-2Stuf STEEL	TRAPEZ-Rekord C-STEEL	TRAPEZ AM-VA NT	TRAPEZ-Rekord C-VA NT	TRAPEZ AUT-A-MS		RUND-Rekord A-STEEL	
	max. 2 x d ₁ ¹⁾ 	max. 2 x d ₁ ¹⁾ 	max. 1,5 x d ₁ 	max. 2 x d ₁ 	E / 1,5-2 max. 1 x d ₁ 		C / 2-3 max. 1 x d ₁ 	六形状と ねじ深さ Thread depth and hole type 
	294 min. 推奨 max. rec.	297 min. 推奨 max. rec.	295 min. 推奨 max. rec.	297 min. 推奨 max. rec.	296, 298 min. 推奨 max. rec.		299 min. 推奨 max. rec.	M MF UNC UNF G, Rp NPSM, NPSF NPT, NPTF Rc, W BSW, BSF Pg MJ UNJC, UNJF EG (STI) LK-M Tr, Tr-F, Rd v _c [m/min]
		2 4 8		2 4 8				1.1
	2 4 6	2 3 6	2 4 6	2 3 6				2.1
	1 4 8		1 4 8	2 3 6				3.1
								4.1
								5.1
								1.1
								2.1
								3.1
								4.1
	2 5 10		2 5 10				10 15 25	1.1
	2 4 8		2 4 8				10 15 25	1.2
	2 4 8		2 4 8	2 4 8			10 15 25	2.1
	2 4 8		2 4 8	2 4 8			5 10 15	2.2
	2 4 8		2 4 8	2 4 8			5 10 15	3.1
	2 4 8		2 4 8	2 4 8			5 10 15	3.2
	2 5 10		2 5 10	2 5 10			10 15 25	4.1
	2 5 10		2 5 10	2 4 8			10 15 25	4.2
								1.1
								1.2
								1.3
								1.4
								1.5
								1.6
								2.1
								2.2
					2 5 10		10 25 40	2.3
	1 4 8		1 4 8	2 4 8				2.4
	1 4 8		1 4 8	2 4 8				2.5
	1 4 8		1 4 8	2 4 8				2.6
								2.7
								2.8
								3.1
								3.2
								4.1
								4.2
								4.3
								4.4
								5.1
								5.2
								5.3
								1.1
								1.2
								1.3
								2.1
								2.2
								2.3
								2.4
								2.5
								2.6
								1.1
								1.2
								1.3
								1.4
								1.5

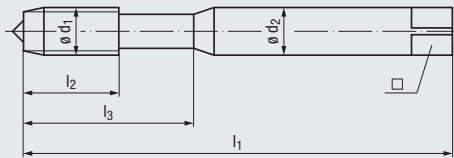
1) 十分なクランプ長さが確保できる場合は 2,5 x d₁ までの加工が可能です
With sufficient clamping length up to approx. 2.5 x d₁

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ · Chamfer
切削油 · Cutting oil

















ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

M	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□		Rekord 1A-STEEL	Rekord 1B-STEEL-L	Rekord 1B-STEEL-L TIN	Rekord 1B-STEEL-L GLT-1	
	1	0,25	40	5	—	2,5	2,1	0,75	B0101001.0010	B0208900.0010		B020K500.0010	
	1,1	0,25	40	5	—	2,5	2,1	0,85	B0101001.0011	B0208900.0011		B020K500.0011	
	1,2	0,25	40	5	—	2,5	2,1	0,95	B0101001.0012	B0208900.0012		B020K500.0012	
	1,4	0,3	40	6	—	2,5	2,1	1,1	B0101001.0014	B0208900.0014		B020K500.0014	
	1,6	0,35	40	6	11	2,5	2,1	1,25	B0101001.0016	B0208900.0016		B020K500.0016	
	1,7	0,35	40	6	11	2,5	2,1	1,35	B0101001.0017	B0208900.0017		B020K500.0017	
	1,8	0,35	40	6	11	2,5	2,1	1,45	B0101001.0018	B0208900.0018		B020K500.0018	
	2	0,4	45	7	12	2,8	2,1	1,6	B0101001.0020	B0208900.0020		B020K500.0020	
	2,2	0,45	45	7	12	2,8	2,1	1,75	B0101001.0022	B0208900.0022		B020K500.0022	
	2,3	0,4	45	7	12	2,8	2,1	1,9	B0101001.0023	B0208900.0023		B020K500.0023	
	2,5	0,45	50	9	14	2,8	2,1	2,05	B0101001.0025	B0208900.0025	B0208400.0025	B020K500.0025	
	2,6	0,45	50	9	14	2,8	2,1	2,15	B0101001.0026	B0208900.0026	B0208400.0026	B020K500.0026	
	3	0,5	56	11	18	3,5	2,7	2,5	B0101001.0030	B0208900.0030	B0208400.0030		
	3,5	0,6	56	12	20	4	3	2,9	B0101001.0035	B0208900.0035	B0208400.0035		
	4	0,7	63	13	21	4,5	3,4	3,3	B0101001.0040	B0208900.0040	B0208400.0040		
	4,5	0,75	70	14	25	6	4,9	3,7	B0101001.0045	B0208900.0045	B0208400.0045		
	5	0,8	70	15	25	6	4,9	4,2	B0101001.0050	B0208900.0050	B0208400.0050		
	5,5	0,9	80	16	30	6	4,9	4,6	B0101001.0055	B0208900.0055	B0208400.0055		
	6	1	80	17	30	6	4,9	5	B0101001.0060	B0208900.0060	B0208400.0060		
	7	1	80	17	30	7	5,5	6	B0101001.0070	B0208900.0070	B0208400.0070		
	8	1,25	90	20	35	8	6,2	6,8	B0101001.0080	B0208900.0080	B0208400.0080		
	9	1,25	90	20	35	9	7	7,8	B0101001.0090	B0208900.0090	B0208400.0090		
	10	1,5	100	22	39	10	8	8,5	B0101001.0100	B0208900.0100	B0208400.0100		
	12	1,75	110	24	44	12	9	10,2	B0208900.0112	B0208400.0112			
									DIN 376	120	120	120	
									DIN 352	150	150		









^{*)} ≤ M1,4 Tol. 4H(X)/5H(X)

STEEL
鋼

 	 	 	 	 	 	 	 
ISO 1/4H	ISO 1/4H TIN	ISO 3/6G	ISO 3/6G TIN	7G	7G TIN	ISO 2/6H	ISO 2/6H TIN
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE 左ねじ	HSSE 左ねじ
B / 4-5	B / 4-5	B / 4-5	B / 4-5	B / 4-5	B / 4-5	B / 4-5	B / 4-5
E / 0	E / 0	E / 0	E / 0	E / 0	E / 0	E / 0	E / 0

max. 3 x d₁



P 1.1-3.1 N 2.2	P 1.1-4.1	P 1.1-3.1 N 2.2	P 1.1-4.1	P 1.1-3.1 N 2.2	P 1.1-4.1	P 1.1-3.1 N 2.2	P 1.1-4.1
Rekord 1B-STEEL-L	Rekord 1B-STEEL-L TIN	Rekord 1B-STEEL-L	Rekord 1B-STEEL-L TIN	Rekord 1B-STEEL-L	Rekord 1B-STEEL-L TIN	Rekord 1B-STEEL-L-LH	Rekord 1B-STEEL-L-LH TIN
B0208910.0020		B0208920.0020		B0208930.0020		B0208950.0020	
B0208910.0025		B0208920.0025		B0208930.0025		B0208950.0025	
B0208910.0030	B0208410.0030	B0208920.0030 B0208920.0035	B0208420.0030 B0208420.0035	B0208930.0030	B0208430.0030	B0208950.0030	B0208450.0030
B0208910.0040	B0208410.0040	B0208920.0040	B0208420.0040	B0208930.0040	B0208430.0040	B0208950.0040	B0208450.0040
B0208910.0050	B0208410.0050	B0208920.0050	B0208420.0050	B0208930.0050	B0208430.0050	B0208950.0050	B0208450.0050
B0208910.0060	B0208410.0060	B0208920.0060	B0208420.0060	B0208930.0060	B0208430.0060	B0208950.0060	B0208450.0060
B0208910.0080	B0208410.0080	B0208920.0080	B0208420.0080	B0208930.0080	B0208430.0080	B0208950.0080	B0208450.0080
B0208910.0100	B0208410.0100	B0208920.0100	B0208420.0100	B0208930.0100	B0208430.0100	B0208950.0100	B0208450.0100
 120	 121	 121	 121	 121	 121	 121	 121

M	1
	1,1
	1,2
	1,4
	1,6
	1,7
	1,8
	2
	2,2
	2,3
	2,5
	2,6
	3
	3,5
	4
	4,5
	5
	5,5
	6
	7
	8
	9
	10
	12

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

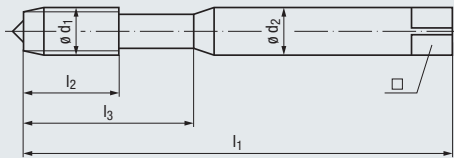


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

Ø d ₁ mm	P mm	l ₁	l ₂	l ₃	Ø d ₂	□	
M 1	0,25	40	5	—	2,5	2,1	0,75
1,1	0,25	40	5	—	2,5	2,1	0,85
1,2	0,25	40	5	—	2,5	2,1	0,95
1,4	0,3	40	6	—	2,5	2,1	1,1
1,6	0,35	40	6	11	2,5	2,1	1,25
1,7	0,35	40	6	11	2,5	2,1	1,35
1,8	0,35	40	6	11	2,5	2,1	1,45
2	0,4	45	7	12	2,8	2,1	1,6
2,2	0,45	45	7	12	2,8	2,1	1,75
2,3	0,4	45	7	12	2,8	2,1	1,9
2,5	0,45	50	9	14	2,8	2,1	2,05
2,6	0,45	50	9	14	2,8	2,1	2,15
3	0,5	56	11	18	3,5	2,7	2,5
3,5	0,6	56	12	20	4	3	2,9
4	0,7	63	13	21	4,5	3,4	3,3
4,5	0,75	70	14	25	6	4,9	3,7
5	0,8	70	15	25	6	4,9	4,2
5,5	0,9	80	16	30	6	4,9	4,6
6	1	80	17	30	6	4,9	5
7	1	80	17	30	7	5,5	6
8	1,25	90	20	35	8	6,2	6,8
9	1,25	90	20	35	9	7	7,8
10	1,5	100	22	39	10	8	8,5
12	1,75	110	24	44	12	9	10,2

DIN 376					
DIN 352					

STEEL
鋼

6HX ALCR-102 HSSE 粉末	6HX ALCR-101 HSSE 粉末	ISO 2/6H HSSE R15 C / 2-3 E / O	ISO 2/6H HSSE R15 E / 1,5-2 E / O
B / ≈6 E / O	B / ≈6 E / O		

max. 3 x d₁



max. 2 x d₁



P 3.1-5.1	P 3.1-5.1	P 2.1-3.1	P 2.1-3.1
Rekord 1B-STEEL-H PM-ALCR-102	Rekord 1B-STEEL-H PM-ALCR-101	Rekord 1D-STEEL	Rekord 1D-STEEL/E

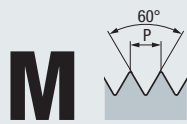
STEEL 鋼			VA ステンレス			
ISO 2/6H TIN HSSE R15 C / 2-3 E / O	ISO 2/6H HSSE R35 C / 2-3 E / O	ISO 2/6H TIN HSSE R35 C / 2-3 E / O	ISO 2/6H *) NT HSSE B / 4-5 E / O / P	ISO 2/6H TIN HSSE B / 4-5 E / O / P	ISO 2/6H *) GLT-1 HSSE B / 4-5 E / O / P	ISO 1/4H NT HSSE B / 4-5 E / O / P
max. 2 x d ₁ 	max. 2,5 x d ₁ 		max. 3 x d ₁ 			
P 3.1-4.1	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 2.1-3.1 N 2.2, 2.5
Rekord 1DF-STEEL TIN	Enorm 1 STEEL	Enorm 1 STEEL TIN	Rekord 1B-VA NT	Rekord 1B-VA TIN	Rekord 1B-VA GLT-1	Rekord 1B-VA NT
			B0203000.0010 B0203000.0011 B0203000.0012 B0203000.0014 B0203000.0016 B0203000.0017 B0203000.0018 B0203000.0020 B0203000.0022 B0203000.0023 B0203000.0025 B0203000.0026 B0203000.0030 B0203000.0035 B0401400.0030 B0401400.0040 B0401400.0050 B0401400.0060 B0401400.0080 B0401400.0100	B0203100.0040 B0203100.0045 B0203100.0050 B0203100.0055 B0203100.0060 B0203100.0070 B0203100.0080 B0203100.0090 B0203100.0100 B0203100.0112	B020C300.0010 B020C300.0011 B020C300.0012 B020C300.0014 B020C300.0016 B020C300.0017 B020C300.0018 B020C300.0020 B020C300.0022 B020C300.0023 B020C300.0025 B020C300.0026 B020C300.0030	B0203010.0020 B0203010.0025 B0203010.0030 B0203010.0040 B0203010.0050 B0203010.0060 B0203010.0080 B0203010.0100
123	123	123	123	123	123	123
			151			

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



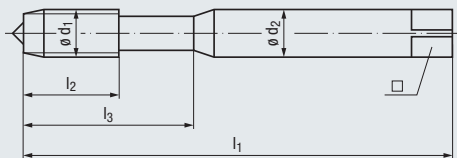
*) ≤ M1,4 Tol. 4H/5H

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

▶ 78

	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□	
M	1	0,25	40	5	—	2,5	2,1	0,75
	1,1	0,25	40	5	—	2,5	2,1	0,85
	1,2	0,25	40	5	—	2,5	2,1	0,95
	1,4	0,3	40	6	—	2,5	2,1	1,1
	1,6	0,35	40	6	11	2,5	2,1	1,25
	1,7	0,35	40	6	11	2,5	2,1	1,35
	1,8	0,35	40	6	11	2,5	2,1	1,45
	2	0,4	45	7	12	2,8	2,1	1,6
	2,2	0,45	45	7	12	2,8	2,1	1,75
	2,3	0,4	45	7	12	2,8	2,1	1,9
	2,5	0,45	50	9	14	2,8	2,1	2,05
	2,6	0,45	50	9	14	2,8	2,1	2,15
3	0,5	56	11	18	3,5	2,7	2,5	
3,5	0,6	56	12	20	4	3	2,9	
4	0,7	63	13	21	4,5	3,4	3,3	
4,5	0,75	70	14	25	6	4,9	3,7	
5	0,8	70	15	25	6	4,9	4,2	
5,5	0,9	80	16	30	6	4,9	4,6	
6	1	80	17	30	6	4,9	5	
7	1	80	17	30	7	5,5	6	
8	1,25	90	20	35	8	6,2	6,8	
9	1,25	90	20	35	9	7	7,8	
10	1,5	100	22	39	10	8	8,5	
12	1,75	110	24	44	12	9	10,2	

DIN 376	
DIN 352	

VA
ステンレス



ISO 1/4H	ISO 1/4H	ISO 3/6G	ISO 3/6G
TIN	GLT-1	NT	TIN
HSSE	HSSE	HSSE	HSSE
B / 4-5	B / 4-5	B / 4-5	B / 4-5
E / O / P	E / O / P	E / O / P	E / O / P

max. 3 x d₁





























P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1
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Rekord 1B-VA TIN	Rekord 1B-VA GLT-1	Rekord 1B-VA NT	Rekord 1B-VA TIN
	B020C310.0020	B0203020.0020	
	B020C310.0025	B0203020.0025	
B0203110.0030	B020C310.0030	B0203020.0030 B0203020.0035	B0203120.0030 B0203120.0035
B0203110.0040	B020C310.0040	B0203020.0040	B0203120.0040
B0203110.0050	B020C310.0050	B0203020.0050	B0203120.0050
B0203110.0060	B020C310.0060	B0203020.0060	B0203120.0060
B0203110.0080	B020C310.0080	B0203020.0080	B0203120.0080
B0203110.0100	B020C310.0100	B0203020.0100	B0203120.0100

124	124	124	124
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VA
ステンレス

							
							
ISO 3/6G GLT-1 HSSE B / 4-5 E / O / P	7G NT HSSE B / 4-5 E / O / P	7G TIN HSSE B / 4-5 E / O / P	7G GLT-1 HSSE B / 4-5 E / O / P	ISO 2/6H NT HSSE 左ねじ B / 4-5 E / O / P	ISO 2/6H TIN HSSE 左ねじ B / 4-5 E / O / P	ISO 2/6H GLT-1 HSSE 左ねじ B / 4-5 E / O / P	ISO 2/6H HSSE R35 C / 2-3 E / O / P
max. 3 x d ₁ 						max. 2,5 x d ₁ 	
P 1.1-4.1 M 1.1-4.1 N 2.2	P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 1.1-3.1
Rekord 1B-VA GLT-1	Rekord 1B-VA NT	Rekord 1B-VA TIN	Rekord 1B-VA GLT-1	Rekord 1B-VA-LH NT	Rekord 1B-VA-LH TIN	Rekord 1B-VA-LH GLT-1	Enorm 1 VA
B020C320.0020	B0203030.0020		B020C330.0020	B0203050.0020		B020C350.0020	B0503000.0020
B020C320.0025	B0203030.0025		B020C330.0025	B0203050.0025		B020C350.0025	B0503000.0025
B020C320.0030 B020C320.0035 B020C320.0040	B0203030.0030	B0203130.0030	B020C330.0030	B0203050.0030	B0203150.0030	B020C350.0030	B0503000.0030
B020C320.0040	B0203030.0040	B0203130.0040	B020C330.0040	B0203050.0040	B0203150.0040	B020C350.0040	B0503000.0040
B020C320.0050	B0203030.0050	B0203130.0050	B020C330.0050	B0203050.0050	B0203150.0050	B020C350.0050	B0503000.0050
B020C320.0060	B0203030.0060	B0203130.0060	B020C330.0060	B0203050.0060	B0203150.0060	B020C350.0060	B0503000.0060
B020C320.0080	B0203030.0080	B0203130.0080	B020C330.0080	B0203050.0080	B0203150.0080	B020C350.0080	B0503000.0080
B020C320.0100	B0203030.0100	B0203130.0100	B020C330.0100	B0203050.0100	B0203150.0100	B020C350.0100	B0503000.0100
 125	 125	 125	 125	 125	 125	 125	 125

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

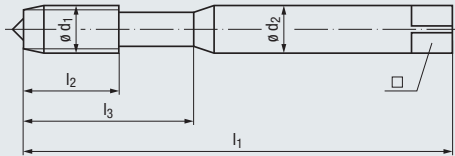


M	1
	1,1
	1,2
	1,4
	1,6
	1,7
	1,8
	2
	2,2
	2,3
	2,5
	2,6
	3
	3,5
	4
	4,5
	5
	5,5
	6
	7
	8
	9
	10
	12

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13



DIN 371

INOX
ステンレス



NEW



$l_2 \approx 10 \times P$

GG
鋳鉄



技術情報
Technical information

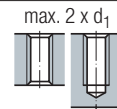
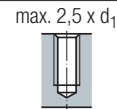
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ISO 2/6H
GLT-201
HSSE
R45
C / 2-3
E / O

6HX	6HX
NT	TICN
HSSE	HSSE
C / 2-3	C / 2-3
E	E

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

M 1.1-2.1

K 1.1-1.2 K 1.1-1.2

M	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□		Enorm 1	Rekord	Rekord
									INOX GLT-201	1A-GG NT	1A-GG TICN
	1	0,25	40	5	—	2,5	2,1	0,75			
	1,1	0,25	40	5	—	2,5	2,1	0,85			
	1,2	0,25	40	5	—	2,5	2,1	0,95			
	1,4	0,3	40	6	—	2,5	2,1	1,1			
	1,6	0,35	40	6	11	2,5	2,1	1,25			
	1,7	0,35	40	6	11	2,5	2,1	1,35			
	1,8	0,35	40	6	11	2,5	2,1	1,45			
	2	0,4	45	7	12	2,8	2,1	1,6	B050J300.0020		
	2,2	0,45	45	7	12	2,8	2,1	1,75			
	2,3	0,4	45	7	12	2,8	2,1	1,9			
	2,5	0,45	50	9	14	2,8	2,1	2,05	B050J300.0025		
	2,6	0,45	50	9	14	2,8	2,1	2,15			
	3	0,5	56	11	18	3,5	2,7	2,5	B050J300.0030	B0102001.0030	
	3,5	0,6	56	12	20	4	3	2,9			
	4	0,7	63	13	21	4,5	3,4	3,3	B050J300.0040	B0102001.0040	B0109201.0040
	4,5	0,75	70	14	25	6	4,9	3,7			
	5	0,8	70	15	25	6	4,9	4,2	B050J300.0050	B0102001.0050	B0109201.0050
	5,5	0,9	80	16	30	6	4,9	4,6			
	6	1	80	17	30	6	4,9	5	B050J300.0060	B0102001.0060	B0109201.0060
	7	1	80	17	30	7	5,5	6			
	8	1,25	90	20	35	8	6,2	6,8	B050J300.0080	B0102001.0080	B0109201.0080
	9	1,25	90	20	35	9	7	7,8			
	10	1,5	100	22	39	10	8	8,5	B050J300.0100	B0102001.0100	B0109201.0100
	12	1,75	110	24	44	12	9	10,2			

DIN 376

126

126

126

DIN 352

GJV

バミキュラー 鋳鉄

						new 	new
6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN 超硬	6HX TICN 超硬
C / 2-3 E	C / 2-3 E	C / 2-3 E	E / 1,5-2 E	E / 1,5-2 E	E / 1,5-2 E	C / 2-3 E	E / 1,5-2 E
K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
Rekord 1A-GJV PM-TICN	Rekord 1A-GJV-IKZ PM-TICN	Rekord 1A-GJV-IKZN PM-TICN	Rekord 1A-GJV/E PM-TICN	Rekord 1A-GJV/E-IKZ PM-TICN	Rekord 1A-GJV/E-IKZN PM-TICN	VHM-Rekord 1A-GJV-IKZ TICN	VHM-Rekord 1A-GJV/E-IKZ TICN
B010R501.0040	B195R501.0040		B011R501.0040	B196R501.0040		B1951P01.0040	B1961P01.0040
B010R501.0050	B195R501.0050	B106R501.0050	B011R501.0050	B196R501.0050	B109R501.0050	B1951P01.0050	B1961P01.0050
B010R501.0060	B195R501.0060	B106R501.0060	B011R501.0060	B196R501.0060	B109R501.0060	B1951P01.0060	B1961P01.0060
B010R501.0070	B195R501.0070	B106R501.0070	B011R501.0070	B196R501.0070	B109R501.0070	B1951P01.0070	B1961P01.0070
B010R501.0080	B195R501.0080	B106R501.0080	B011R501.0080	B196R501.0080	B109R501.0080	B1951P01.0080	B1961P01.0080
B010R501.0100	B195R501.0100	B106R501.0100	B011R501.0100	B196R501.0100	B109R501.0100	B1951P01.0100	B1961P01.0100

M	1
	1,1
	1,2
	1,4
	1,6
	1,7
	1,8
	2
	2,2
	2,3
	2,5
	2,6
	3
	3,5
	4
	4,5
	5
	5,5
	6
	7
	8
	9
	10
	12

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Product Finder

Vc

M

MF

UNC UN-8

UNF UNEF

G, Rp NPSM, NPSF

NPT, NPTF Rc, W

BSW, BSF

Pg

MJ UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F Rd

Zubehör Accessories

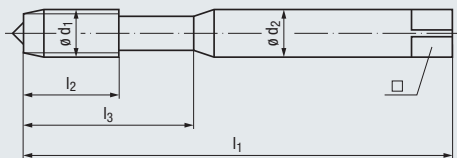


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type



















アプリケーション - 被削材
Applications - material 78

M	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□					
									Rekord 1B-AL	Rekord 1B-AL GLT-104	Enorm 1-AL	Enorm 1-AL GLT-104
	1	0,25	40	5	—	2,5	2,1	0,75				
	1,1	0,25	40	5	—	2,5	2,1	0,85				
	1,2	0,25	40	5	—	2,5	2,1	0,95				
	1,4	0,3	40	6	—	2,5	2,1	1,1	B0204500.0014	B0203G00.0014	B0504500.0014	B0503G00.0014
	1,6	0,35	40	6	11	2,5	2,1	1,25	B0204500.0016	B0203G00.0016	B0504500.0016	B0503G00.0016
	1,7	0,35	40	6	11	2,5	2,1	1,35				
	1,8	0,35	40	6	11	2,5	2,1	1,45				
	2	0,4	45	7	12	2,8	2,1	1,6	B0204500.0020	B0203G00.0020	B0504500.0020	B0503G00.0020
	2,2	0,45	45	7	12	2,8	2,1	1,75				
	2,3	0,4	45	7	12	2,8	2,1	1,9				
	2,5	0,45	50	9	14	2,8	2,1	2,05	B0204500.0025	B0203G00.0025	B0504500.0025	B0503G00.0025
	2,6	0,45	50	9	14	2,8	2,1	2,15				
	3	0,5	56	11	18	3,5	2,7	2,5	B0204500.0030	B0203G00.0030	B0504500.0030	B0503G00.0030
	3,5	0,6	56	12	20	4	3	2,9	B0204500.0035	B0203G00.0035	B0504500.0035	B0503G00.0035
	4	0,7	63	13	21	4,5	3,4	3,3	B0204500.0040	B0203G00.0040	B0504500.0040	B0503G00.0040
	4,5	0,75	70	14	25	6	4,9	3,7				
	5	0,8	70	15	25	6	4,9	4,2	B0204500.0050	B0203G00.0050	B0504500.0050	B0503G00.0050
	5,5	0,9	80	16	30	6	4,9	4,6				
	6	1	80	17	30	6	4,9	5	B0204500.0060	B0203G00.0060	B0504500.0060	B0503G00.0060
	7	1	80	17	30	7	5,5	6				
	8	1,25	90	20	35	8	6,2	6,8	B0204500.0080	B0203G00.0080	B0504500.0080	B0503G00.0080
	9	1,25	90	20	35	9	7	7,8				
	10	1,5	100	22	39	10	8	8,5	B0204500.0100	B0203G00.0100	B0504500.0100	B0503G00.0100
	12	1,75	110	24	44	12	9	10,2				

DIN 376					
DIN 352					

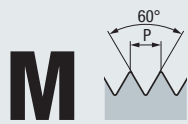
^{*)} ≤ M1,4 Tol. 4H/5H

AL アルミ合金 展伸材			
ISO 2/6H ^{*)}	ISO 2/6H ^{*)}	ISO 2/6H ^{*)}	ISO 2/6H ^{*)}
HSSE	GLT-104 HSSE	HSSE	GLT-104 HSSE
B/≈3	B/≈3	R45	R45
E/O	E/O	C/2-3	C/2-3
max. 3 x d ₁		max. 2,5 x d ₁	
N 1.4	N 1.1-1.4, 2.1	N 1.4	N 1.1-1.4, 2.1
Rekord 1B-AL	Rekord 1B-AL GLT-104	Enorm 1-AL	Enorm 1-AL GLT-104

AL アルミ合金 展伸材		GAL アルミ合金 鋳物				MG マグネシウム 合金	Product Finder
  $l_2 \approx 10 \times P$							V _c
							M
ISO 2/GH GLT-104 HSSE R45 E / 1,5-2 E / O		6HX TiCN HSSE E / 1,5-2 E / M	6HX TiCN HSSE E / 1,5-2 E / M	6HX TiCN HSSE R15 E / 1,5-2 E / M	6HX TiCN HSSE 超硬 R15 E / 1,5-2 E / M	6HX GLT-1 HSSE C / 2-3 E	MF
max. 2,5 x d ₁ 		max. 2 x d ₁  1)	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	UNC UN-8
N 1.1-1.4, 2.1		N 1.5-1.6	N 1.5-1.6	N 1.4-1.6	N 1.4-1.6	N 3.1-3.2	UNF UNEF
Enorm 1-AL/E GLT-104		Rekord 1A-GAL/E-IKZ TiCN	Rekord 1A-GAL/E-IKZN TiCN	Rekord 1D-GAL/E-IKZ TiCN	VHM-Rekord 1D-GAL/E-IKZ TiCN	Rekord 1A-MG GLT-1	G, Rp NPSM, NPSF
							NPT, NPTF Rc, W
							BSW, BSF
							Pg
							MJ UNJC, UNJF
							EG (STI)
							SELF-LOCK
							Tr, Tr-F Rd
							Zubehör Accessories
							M 1
							1,1
							1,2
							1,4
							1,6
							1,7
							1,8
							2
							2,2
							2,3
							2,5
							2,6
B0513G00.0030						B010J601.0030	3
B0513G00.0040	B1969501.0040			B0989501.0040	B098Q801.0040	B010J601.0040	3,5
B0513G00.0050	B1969501.0050	B1099501.0050		B0989501.0050	B098Q801.0050	B010J601.0050	4
B0513G00.0060	B1969501.0060	B1099501.0060		B0989501.0060	B098Q801.0060	B010J601.0060	4,5
B0513G00.0080	B1969501.0080	B1099501.0080		B0989501.0080	B098Q801.0080	B010J601.0080	5
B0513G00.0100	B1969501.0100	B1099501.0100		B0989501.0100	B098Q801.0100	B010J601.0100	5,5
							6
							7
							8
							9
							10
							12

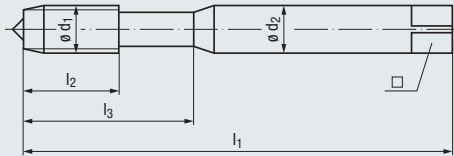
1) 通り穴の場合は外部給油をご使用ください
 Threading in through holes is possible only with external cooling/lubrication

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



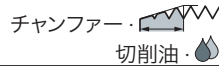
DIN 13

DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material



ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material









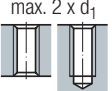








M	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□		Rekord 1A-FK NT	VHM-Rekord 1A-FK- IKZ	Rekord 1D-PVC/ E CRN												
												0,75	0,85	0,95	1,1	1,25	1,35	1,45	1,6	1,75	1,9	2,05	2,15
1	1,1	0,25	40	5	-	2,5	2,1	0,75															
1,2	1,4	0,25	40	5	-	2,5	2,1	0,85															
1,4	1,6	0,25	40	5	-	2,5	2,1	0,95															
1,6	1,7	0,3	40	6	-	2,5	2,1	1,1															
1,7	1,8	0,35	40	6	11	2,5	2,1	1,25															
1,8	2	0,35	40	6	11	2,5	2,1	1,35															
2	2,2	0,35	40	6	11	2,5	2,1	1,45															
2,2	2,5	0,4	45	7	12	2,8	2,1	1,6															
2,3	2,5	0,45	45	7	12	2,8	2,1	1,75															
2,5	2,6	0,45	45	7	12	2,8	2,1	1,9															
2,6	3	0,45	50	9	14	2,8	2,1	2,05															
3	3,5	0,5	56	11	18	3,5	2,7	2,5	B010T001.0030	B8170901.0030	B046L801.0030												
3,5	4	0,6	56	12	20	4	3	2,9															
4	4,5	0,7	63	13	21	4,5	3,4	3,3	B010T001.0040	B8170901.0040	B046L801.0040												
4,5	5	0,75	70	14	25	6	4,9	3,7															
5	5,5	0,8	70	15	25	6	4,9	4,2	B010T001.0050	B8170901.0050	B046L801.0050												
5,5	6	0,9	80	16	30	6	4,9	4,6															
6	7	1	80	17	30	6	4,9	5	B010T001.0060	B8170901.0060	B046L801.0060												
7	8	1	80	17	30	7	5,5	6															
8	9	1,25	90	20	35	8	6,2	6,8	B010T001.0080	B8170901.0080	B046L801.0080												
9	10	1,25	90	20	35	9	7	7,8															
10	12	1,5	100	22	39	10	8	8,5	B010T001.0100	B8170901.0100	B046L801.0100												
12		1,75	110	24	44	12	9	10,2															
									DIN 376														
									DIN 352														

FK 合成樹脂 (短い切りくず)		PVC 合成樹脂 (長い切りくず)
l ₂ ≈ 10 x P	l ₂ ≈ 10 x P	l ₂ ≈ 10 x P
6HX	6HX	6HX
NT		CRN
HSSE	超硬	HSSE
		R15
C / 2-3	C / 2-3	E / 1,5-2
E	E	E

max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁
1)		

N 4.1, 4.3	K 1.1-4.2 N 1.5-1.6 N 2.6-2.8 N 4.1, 4.3-5.2	N 4.2
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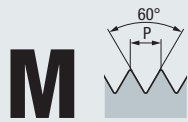
1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

MS 黄銅		TI チタン合金				TILEG チタン合金	
							
6HX		6HX	6HX	6HX	6HX	6HX	
HSSE		NT2	TICN	NT2	TICN	TICN	
C / 2-3		HSSE	HSSE	HSSE	HSSE	HSSE	
E		L15	L15	R15	R15	R15	
		D / 4-5	D / 4-5	C / 2-3	C / 2-3	C / 2-3	
		E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	
max. 2 x d ₁ 		max. 3 x d ₁ 		max. 2 x d ₁ 		max. 2 x d ₁ 	
N 2.3		P 4.1-5.1 M 3.1-4.1 N 2.4-2.5, 2.7 S 1.1-2.2, 2.4	P 4.1-5.1 M 3.1-4.1 N 2.4-2.5, 2.7 S 1.1-2.2, 2.4	P 4.1-5.1 M 3.1-4.1 N 2.4-2.5, 2.7 S 1.1-2.2, 2.4	P 4.1-5.1 M 3.1-4.1 N 2.4-2.5, 2.7 S 1.1-2.2, 2.4	S 1.2-1.3	
Rekord 1A-MS		Rekord 1C-TI NT2	Rekord 1C-TI TICN	Rekord 1D-TI NT2	Rekord 1D-TI TICN	Rekord 1DF-TILEG TICN	
						M 1	
						1,1	
						1,2	
						1,4	
						1,6	
						1,7	
						1,8	
B0102501.0020		B0306001.0020	B0309601.0020	B0456001.0020	B0459601.0020	2	
						2,2	
						2,3	
B0102501.0025		B0306001.0025	B0309601.0025	B0456001.0025	B0459601.0025	2,5	
						2,6	
B0102501.0030		B0306001.0030	B0309601.0030	B0456001.0030	B0459601.0030	3	
		B0306001.0035	B0309601.0035	B0456001.0035	B0459601.0035	3,5	
B0102501.0040		B0306001.0040	B0309601.0040	B0456001.0040	B0459601.0040	4	
						4,5	
B0102501.0050		B0306001.0050	B0309601.0050	B0456001.0050	B0459601.0050	5	
						5,5	
B0102501.0060		B0306001.0060	B0309601.0060	B0456001.0060	B0459601.0060	6	
						7	
B0102501.0080		B0306001.0080	B0309601.0080	B0456001.0080	B0459601.0080	8	
						9	
B0102501.0100		B0306001.0100	B0309601.0100	B0456001.0100	B0459601.0100	10	
						12	
		 129	 129	 129	 129		
 151							

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

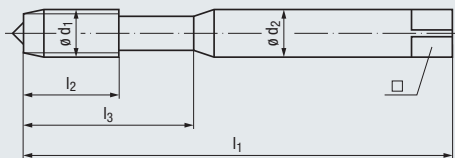


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



M
DIN 13

DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material ▶▶ 78

M	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□		Rekord 1C-NI PM-TiCN	Rekord 1DF-NI PM-TiCN	Rekord 1A-H NT
									129	129	130
	1	0,25	40	5	—	2,5	2,1	0,75			
	1,1	0,25	40	5	—	2,5	2,1	0,85			
	1,2	0,25	40	5	—	2,5	2,1	0,95			
	1,4	0,3	40	6	—	2,5	2,1	1,1			
	1,6	0,35	40	6	11	2,5	2,1	1,25			
	1,7	0,35	40	6	11	2,5	2,1	1,35			
	1,8	0,35	40	6	11	2,5	2,1	1,45			
	2	0,4	45	7	12	2,8	2,1	1,6			B0100501.0020
	2,2	0,45	45	7	12	2,8	2,1	1,75			
	2,3	0,4	45	7	12	2,8	2,1	1,9			
	2,5	0,45	50	9	14	2,8	2,1	2,05			B0100501.0025
	2,6	0,45	50	9	14	2,8	2,1	2,15			
	3	0,5	56	11	18	3,5	2,7	2,5	B030J401.0030	B438J401.0030	B0100501.0030
	3,5	0,6	56	12	20	4	3	2,9			B0100501.0035
	4	0,7	63	13	21	4,5	3,4	3,3 2)	B030J401.0040	B438J401.0040	B0100501.0040
	4,5	0,75	70	14	25	6	4,9	3,7			
	5	0,8	70	15	25	6	4,9	4,2 2)	B030J401.0050	B438J401.0050	B0100501.0050
	5,5	0,9	80	16	30	6	4,9	4,6			
	6	1	80	17	30	6	4,9	5 2)	B030J401.0060	B438J401.0060	B0100501.0060
	7	1	80	17	30	7	5,5	6			B0100501.0070
	8	1,25	90	20	35	8	6,2	6,8 2)	B030J401.0080	B438J401.0080	B0100501.0080
	9	1,25	90	20	35	9	7	7,8			
	10	1,5	100	22	39	10	8	8,5 2)	B030J401.0100	B438J401.0100	B0100501.0100
	12	1,75	110	24	44	12	9	10,2			
									DIN 376		
									DIN 352		

2) Rekord 1A-HCUT-PM-TiCN 使用時は下穴径を0,1 mm 大きくしてください
Increase drill diameter for taps Rekord 1A-HCUT-PM-TiCN by 0.1 mm

H 高強度鋼					HCUT 高硬度鋼		
6HX TICN HSSE	6HX NT HSSE	6HX TICN HSSE	6HX TICN HSSE	6HX 超硬	6HX TICN HSSE-PM		
C / 2-3 E / O / P	C / 2-3 E / O	C / 2-3 E / O	C / 2-3 E / O	C / 2-3 E / O	C / 2-3 O / P		
max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 1,5 x d ₁ 		
K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1, 5.1	K 1.1-4.2 N 4.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1, 5.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1, 5.1	K 1.1-4.2 N 1.5-1.6 N 2.6-2.8 N 4.1, 4.3-4.4 N 5.1-5.2	H 1.1-1.2		
Rekord 1A-H TICN	Rekord 1A-H-IKZ NT	Rekord 1A-H-IKZ TICN	Rekord 1A-H-IKZN TICN	VHM-Rekord 1A-H-IKZ	Rekord 1A-HCUT PM-TICN		
							M 1
							1,1
							1,2
							1,4
							1,6
							1,7
							1,8
B0109101.0020							2
							2,2
							2,3
B0109101.0025							2,5
							2,6
B0109101.0030				B1950901.0030			3
B0109101.0035							3,5
B0109101.0040				B1950901.0040	B010J901.0040		4
							4,5
B0109101.0050	B1950501.0050	B1959101.0050	B1069101.0050	B1950901.0050	B010J901.0050		5
							5,5
B0109101.0060	B1950501.0060	B1959101.0060	B1069101.0060	B1950901.0060	B010J901.0060		6
B0109101.0070							7
B0109101.0080	B1950501.0080	B1959101.0080	B1069101.0080	B1950901.0080	B010J901.0080		8
							9
B0109101.0100	B1950501.0100	B1959101.0100	B1069101.0100	B1950901.0100	B010J901.0100		10
							12

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

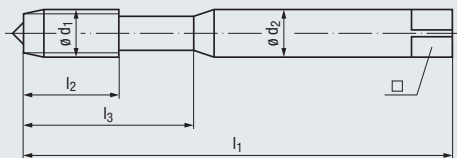


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

≈ DIN 371



HCUT
高硬度鋼



2)

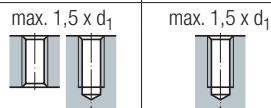
技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファァー · 切削油 ·

6HX	6HX
TICN	TICN
超硬	超硬
D / 4-5	C / 2-3
O / P	O / P

ねじ深さと穴形状
Thread depth and hole type

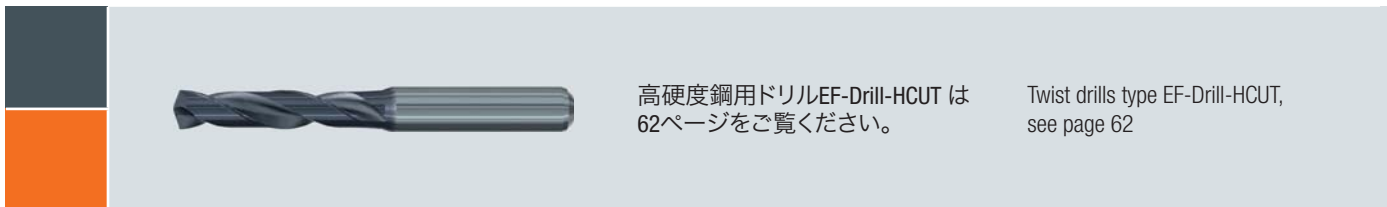


アプリケーション - 被削材
Applications - material 78

H 1.3-1.4

M	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□		VHM-Rekord 1A-HCUT/D TICN	VHM-Rekord 1A-HCUT/C TICN
									2,55	B016K101.0030
3,4	B016K101.0040	B010K101.0040								
4,3	B016K101.0050	B010K101.0050								
5,1	B016K101.0060	B010K101.0060								
6,9	B016K101.0080	B010K101.0080								
8,6	B016K101.0100	B010K101.0100								
10,4	B016K101.0112	B010K101.0112								
12,2	B016K101.0114	B010K101.0114								
14,2	B016K101.0116	B010K101.0116								

2) 食い付き山数4.5山タイプを #1 タップとしてご使用ください!
Please note: Use solid carbide tap VHM-Rekord 1A-HCUT/D-TICN as No.1 tap!



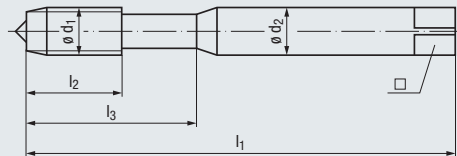
高硬度鋼用ドリルEF-Drill-HCUT は
62ページをご覧ください。

Twist drills type EF-Drill-HCUT,
see page 62



DIN 13

DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファア ·
切削油 ·

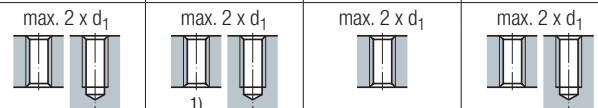
ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

Z
シングル加工



6HX	6HX	6HX	6HX
TICN	TICN	TICN	TICN
HSSE	HSSE	HSSE	HSSE
C / 2-3	C / 2-3	C / 2-3	E / 1,5-2
E / O / P	E / O	E / O	E / O / P



K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
N 1.5-1.6, 2.6	N 1.5-1.6, 2.6	N 1.5-1.6, 2.6	N 1.5-1.6, 2.6
N 4.1	N 4.1	N 4.1	N 4.1

M	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□		Rekord	Rekord	Rekord	Rekord
									1A-Z TICN	1A-Z-1KZ TICN	1A-Z-1KZN TICN	1A-Z/E TICN
	1	0,25	40	2,5	-	2,5	2,1	0,75				
	1,1	0,25	40	2,5	-	2,5	2,1	0,85				
	1,2	0,25	40	2,5	-	2,5	2,1	0,95				
	1,4	0,3	40	3	-	2,5	2,1	1,1				
	1,6	0,35	40	4	11	2,5	2,1	1,25				
	1,7	0,35	40	4	11	2,5	2,1	1,35				
	1,8	0,35	40	4	11	2,5	2,1	1,45				
	2	0,4	45	4	12	2,8	2,1	1,6				
	2,2	0,45	45	4,5	12	2,8	2,1	1,75				
	2,3	0,4	45	4,5	12	2,8	2,1	1,9				
	2,5	0,45	50	5	14	2,8	2,1	2,05				
	2,6	0,45	50	5	14	2,8	2,1	2,15				
	3	0,5	56	6	18	3,5	2,7	2,5	B0109401.0030			B0119401.0030
	3,5	0,6	56	7	20	4	3	2,9				
	4	0,7	63	7	21	4,5	3,4	3,3	B0109401.0040	B1959401.0040		B0119401.0040
	4,5	0,75	70	8	25	6	4,9	3,7				
	5	0,8	70	8	25	6	4,9	4,2	B0109401.0050	B1959401.0050	B1069401.0050	B0119401.0050
	5,5	0,9	80	10	30	6	4,9	4,6				
	6	1	80	10	30	6	4,9	5	B0109401.0060	B1959401.0060	B1069401.0060	B0119401.0060
	7	1	80	10	30	7	5,5	6				
	8	1,25	90	14	35	8	6,2	6,8	B0109401.0080	B1959401.0080	B1069401.0080	B0119401.0080
	9	1,25	90	14	35	9	7	7,8				
	10	1,5	100	16	39	10	8	8,5	B0109401.0100	B1959401.0100	B1069401.0100	B0119401.0100
	12	1,75	110	18	44	12	9	10,2				

DIN 376

133

133

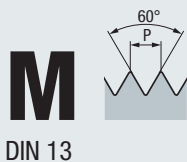
133

133

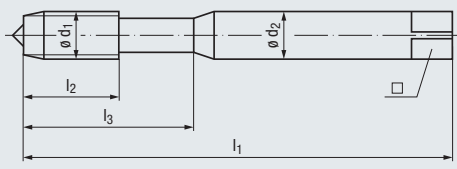
DIN 352

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 371



Z
シングロ加工



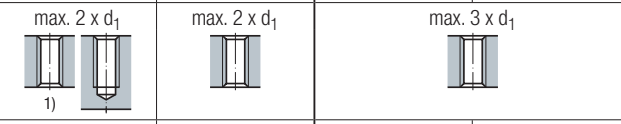
技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

6HX TICN HSSE E / 1,5-2 E / O	6HX TICN HSSE E / 1,5-2 E / O	6HX TIN-70 HSSE 粉末 B / 4-5 E / O / P	6HX GLT-1 HSSE 粉末 B / 4-5 E / O / P
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ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1	P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3
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M	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□		Rekord	Rekord	Rekord	Rekord
									1A-Z/E-IKZ TICN	1A-Z/E-IKZN TICN	1B-Z PM-TIN-70	1B-Z PM-GLT-1
	1	0,25	40	2,5	—	2,5	2,1	0,75				
	1,1	0,25	40	2,5	—	2,5	2,1	0,85				
	1,2	0,25	40	2,5	—	2,5	2,1	0,95				
	1,4	0,3	40	3	—	2,5	2,1	1,1				
	1,6	0,35	40	4	11	2,5	2,1	1,25				
	1,7	0,35	40	4	11	2,5	2,1	1,35				
	1,8	0,35	40	4	11	2,5	2,1	1,45				
	2	0,4	45	4	12	2,8	2,1	1,6			B0208F01.0020	B020A601.0020
	2,2	0,45	45	4,5	12	2,8	2,1	1,75				
	2,3	0,4	45	4,5	12	2,8	2,1	1,9				
	2,5	0,45	50	5	14	2,8	2,1	2,05			B0208F01.0025	B020A601.0025
	2,6	0,45	50	5	14	2,8	2,1	2,15				
	3	0,5	56	6	18	3,5	2,7	2,5			B0208F01.0030	B020A601.0030
	3,5	0,6	56	7	20	4	3	2,9			B0208F01.0035	B020A601.0035
	4	0,7	63	7	21	4,5	3,4	3,3	B1969401.0040		B0208F01.0040	B020A601.0040
	4,5	0,75	70	8	25	6	4,9	3,7				
	5	0,8	70	8	25	6	4,9	4,2	B1969401.0050	B1099401.0050	B0208F01.0050	B020A601.0050
	5,5	0,9	80	10	30	6	4,9	4,6				
	6	1	80	10	30	6	4,9	5	B1969401.0060	B1099401.0060	B0208F01.0060	B020A601.0060
	7	1	80	10	30	7	5,5	6				
	8	1,25	90	14	35	8	6,2	6,8	B1969401.0080	B1099401.0080	B0208F01.0080	B020A601.0080
	9	1,25	90	14	35	9	7	7,8				
	10	1,5	100	16	39	10	8	8,5	B1969401.0100	B1099401.0100	B0208F01.0100	B020A601.0100
	12	1,75	110	18	44	12	9	10,2				

DIN 376	134	134	134	134
DIN 352				

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Z
シングロ加工

6HX TIN-70 HSSE 粉末	6HX GLT-1 HSSE 粉末	6GX TIN-70 HSSE 粉末	6GX GLT-1 HSSE 粉末	6GX TIN-70 HSSE 粉末	6GX GLT-1 HSSE 粉末	6HX TIN HSSE R15 C / 2-3 E / O / P	6HX TIN HSSE R15 C / 2-3 E / O

max. 3 x d₁



max. 2 x d₁



P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3	P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3	P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3	P 3.1-5.1 N 2.4-2.5	P 3.1-5.1 N 2.4-2.5
Rekord 1B-Z-IKZN PM-TIN-70	Rekord 1B-Z-IKZN PM-GLT-1	Rekord 1B-Z PM-TIN-70	Rekord 1B-Z PM-GLT-1	Rekord 1B-Z-IKZN PM-TIN-70	Rekord 1B-Z-IKZN PM-GLT-1	Rekord 1D-Z TIN	Rekord 1D-Z-IKZ TIN
		B0208F21.0020	B020A621.0020				
		B0208F21.0025	B020A621.0025				
		B0208F21.0030	B020A621.0030			B0453701.0030	
		B0208F21.0040	B020A621.0040			B0453701.0040	B0963701.0040
B1088F01.0050	B108A601.0050	B0208F21.0050	B020A621.0050	B1088F21.0050	B108A621.0050	B0453701.0050	B0963701.0050
B1088F01.0060	B108A601.0060	B0208F21.0060	B020A621.0060	B1088F21.0060	B108A621.0060	B0453701.0060	B0963701.0060
B1088F01.0080	B108A601.0080	B0208F21.0080	B020A621.0080	B1088F21.0080	B108A621.0080	B0453701.0080	B0963701.0080
B1088F01.0100	B108A601.0100	B0208F21.0100	B020A621.0100	B1088F21.0100	B108A621.0100	B0453701.0100	B0963701.0100
135	135	135	135	135	135	135	135

M	1
	1,1
	1,2
	1,4
	1,6
	1,7
	1,8
	2
	2,2
	2,3
	2,5
	2,6
	3
	3,5
	4
	4,5
	5
	5,5
	6
	7
	8
	9
	10
	12

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

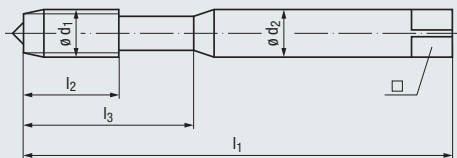


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 371



Z シングル加工



公差 · Tolerance
 コーティング · Coating
 母材 · Cutting material

技術情報
 Technical information

チャンファ · Chamfer
 切削油 · Cutting oil

6HX	6HX	6HX
TIN	TIN	TIN
HSSE	HSSE	HSSE
R15	R15	R15
E / 1,5-2	C / 2-3	E / 1,5-2
E / 0	E / 0	E / 0

ねじ深さと穴形状
 Thread depth and hole type

max. 2 x d₁



アプリケーション - 被削材
 Applications - material

▶ 78

P 3.1-5.1	P 3.1-5.1	P 3.1-5.1
N 2.4-2.5	N 2.4-2.5	N 2.4-2.5

M	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□		Rekord	Rekord	Rekord
									1D-Z/E-IKZ TIN	1D-Z-BF IKZ-TIN	1D-Z/E-BF IKZ-TIN
	1	0,25	40	2,5	—	2,5	2,1	0,75			
	1,1	0,25	40	2,5	—	2,5	2,1	0,85			
	1,2	0,25	40	2,5	—	2,5	2,1	0,95			
	1,4	0,3	40	3	—	2,5	2,1	1,1			
	1,6	0,35	40	4	11	2,5	2,1	1,25			
	1,7	0,35	40	4	11	2,5	2,1	1,35			
	1,8	0,35	40	4	11	2,5	2,1	1,45			
	2	0,4	45	4	12	2,8	2,1	1,6			
	2,2	0,45	45	4,5	12	2,8	2,1	1,75			
	2,3	0,4	45	4,5	12	2,8	2,1	1,9			
	2,5	0,45	50	5	14	2,8	2,1	2,05			
	2,6	0,45	50	5	14	2,8	2,1	2,15			
	3	0,5	56	6	18	3,5	2,7	2,5			
	3,5	0,6	56	7	20	4	3	2,9			
	4	0,7	63	7	21	4,5	3,4	3,3	B0983701.0040	B4253701.0040	B4053701.0040
	4,5	0,75	70	8	25	6	4,9	3,7			
	5	0,8	70	8	25	6	4,9	4,2	B0983701.0050	B4253701.0050	B4053701.0050
	5,5	0,9	80	10	30	6	4,9	4,6			
	6	1	80	10	30	6	4,9	5	B0983701.0060	B4253701.0060	B4053701.0060
	7	1	80	10	30	7	5,5	6			
	8	1,25	90	14	35	8	6,2	6,8	B0983701.0080	B4253701.0080	B4053701.0080
	9	1,25	90	14	35	9	7	7,8			
	10	1,5	100	16	39	10	8	8,5	B0983701.0100	B4253701.0100	B4053701.0100
	12	1,75	110	18	44	12	9	10,2			

DIN 376

136

136

136

DIN 352

Z
シンク口加工

new	new	new	new	new	new	new	new
6HX	6HX	6HX	6HX	6GX	6GX	6GX	6GX
GLT-1	GLT-1	GLT-1	GLT-1	GLT-1	GLT-1	GLT-1	GLT-1
HSSE 粉末	HSSE 粉末	HSSE 粉末	HSSE 粉末	HSSE 粉末	HSSE 粉末	HSSE 粉末	HSSE 粉末
R45	R45	R45	R45	R45	R45	R45	R45
C / 2-3	C / 2-3	E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3	E / 1,5-2	E / 1,5-2
E / O / P	E / O	E / O / P	E / O	E / O / P	E / O	E / O / P	E / O

max. 3 x d₁



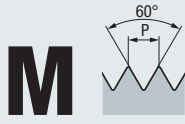
P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1
M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1
K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2
N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2
N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5
S 1.1	S 1.1	S 1.1	S 1.1	S 1.1	S 1.1	S 1.1	S 1.1
Enorm 1-Z PM-GLT-1	Enorm 1-Z-IKZ PM-GLT-1	Enorm 1-Z/E PM-GLT-1	Enorm 1-Z/E-IKZ PM-GLT-1	Enorm 1-Z PM-GLT-1	Enorm 1-Z-IKZ PM-GLT-1	Enorm 1-Z/E PM-GLT-1	Enorm 1-Z/E-IKZ PM-GLT-1
B616A601.0020		B498A601.0020					
B616A601.0025		B498A601.0025					
B616A601.0030		B498A601.0030		B616A621.0030		B498A621.0030	
B616A601.0035		B498A601.0035					
B616A601.0040	B591A601.0040	B498A601.0040	B590A601.0040	B616A621.0040	B591A621.0040	B498A621.0040	B590A621.0040
B616A601.0050	B591A601.0050	B498A601.0050	B590A601.0050	B616A621.0050	B591A621.0050	B498A621.0050	B590A621.0050
B616A601.0060	B591A601.0060	B498A601.0060	B590A601.0060	B616A621.0060	B591A621.0060	B498A621.0060	B590A621.0060
B616A601.0080	B591A601.0080	B498A601.0080	B590A601.0080	B616A621.0080	B591A621.0080	B498A621.0080	B590A621.0080
B616A601.0100	B591A601.0100	B498A601.0100	B590A601.0100	B616A621.0100	B591A621.0100	B498A621.0100	B590A621.0100

M	1
	1,1
	1,2
	1,4
	1,6
	1,7
	1,8
	2
	2,2
	2,3
	2,5
	2,6
	3
	3,5
	4
	4,5
	5
	5,5
	6
	7
	8
	9
	10
	12

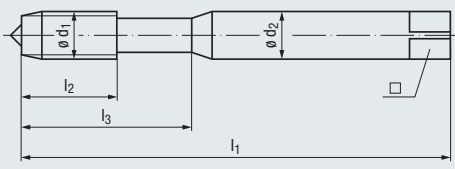
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



M
DIN 13



DIN 371

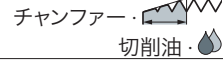
Z
シングロ加工



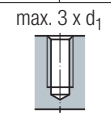
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

ISO 2/6H *)	ISO 2/6H	ISO 2/6H	ISO 2/6H
	TIN	GLT-1	GLT-1
HSSE	HSSE	HSSE	HSSE
R45	R45	R45	R45
C / 2-3	C / 2-3	C / 2-3	C / 2-3
E / O / P	E / O / P	E / O / P	E / O

技術情報
Technical information



ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1
------------------	---	---	---

∅ d ₁ mm	P mm	l ₁	l ₂	l ₃	∅ d ₂	□	ねじ
M 1	0,25	40	2,5	—	2,5	2,1	0,75
1,1	0,25	40	2,5	—	2,5	2,1	0,85
1,2	0,25	40	2,5	—	2,5	2,1	0,95
1,4	0,3	40	3	—	2,5	2,1	1,1
1,6	0,35	40	4	11	2,5	2,1	1,25
1,7	0,35	40	4	11	2,5	2,1	1,35
1,8	0,35	40	4	11	2,5	2,1	1,45
2	0,4	45	4	12	2,8	2,1	1,6
2,2	0,45	45	4,5	12	2,8	2,1	1,75
2,3	0,4	45	4,5	12	2,8	2,1	1,9
2,5	0,45	50	5	14	2,8	2,1	2,05
2,6	0,45	50	5	14	2,8	2,1	2,15
3	0,5	56	6	18	3,5	2,7	2,5
3,5	0,6	56	7	20	4	3	2,9
4	0,7	63	7	21	4,5	3,4	3,3
4,5	0,75	70	8	25	6	4,9	3,7
5	0,8	70	8	25	6	4,9	4,2
5,5	0,9	80	10	30	6	4,9	4,6
6	1	80	10	30	6	4,9	5
7	1	80	10	30	7	5,5	6
8	1,25	90	14	35	8	6,2	6,8
9	1,25	90	14	35	9	7	7,8
10	1,5	100	16	39	10	8	8,5
12	1,75	110	18	44	12	9	10,2

Enorm 1-Z	Enorm 1-Z TIN	Enorm 1-Z GLT-1	Enorm 1-Z-1KZ GLT-1
B0503500.0014			
B0503500.0016			
B0503500.0017			
B0503500.0018			
B0503500.0020		B050C400.0020	
B0503500.0022			
B0503500.0023			
B0503500.0025		B050C400.0025	
B0503500.0026			
B0503500.0030	B0503700.0030	B050C400.0030	
B0503500.0035	B0503700.0035		
B0503500.0040	B0503700.0040	B050C400.0040	
B0503500.0045			
B0503500.0050	B0503700.0050	B050C400.0050	B099C400.0050
B0503500.0055			
B0503500.0060	B0503700.0060	B050C400.0060	B099C400.0060
B0503500.0070			
B0503500.0080	B0503700.0080	B050C400.0080	B099C400.0080
B0503500.0090			
B0503500.0100	B0503700.0100	B050C400.0100	B099C400.0100
B0503500.0112			

DIN 376		138	138	138	139
DIN 352					

*) ≤ M1,4 Tol. 4H/5H

Z
シンクロ加工

ISO 2/6H	ISO 2/6H	ISO 2/6H	ISO 2/6H	ISO 2/6H	ISO 2/6H	ISO 1/4H	ISO 1/4H
HSSE	TIN HSSE	GLT-1 HSSE	HSSE	TIN HSSE	GLT-1 HSSE	HSSE	GLT-1 HSSE
R45	R45	R45	R45	R45	R45	R45	R45
E / 1,5-2	E / 1,5-2	E / 1,5-2	E / 1,5-2	E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3
E / O / P	E / O / P	E / O / P	E / O	E / O	E / O	E / O / P	E / O / P

max. 3 x d₁



P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1
Enorm 1-Z/E	Enorm 1-Z/E TIN	Enorm 1-Z/E GLT-1	Enorm 1-Z/E-1KZ	Enorm 1-Z/E-1KZ TIN	Enorm 1-Z/E-1KZ GLT-1	Enorm 1-Z	Enorm 1-Z GLT-1
B0513500.0020						B0503510.0020	
B0513500.0025						B0503510.0025	
B0513500.0030 B0513500.0035 B0513500.0040	B0513700.0030 B0513700.0035 B0513700.0040	B051C400.0030				B0503510.0030 B050C410.0030	
B0513500.0050	B0513700.0050	B051C400.0050	B0973500.0050	B0973700.0050	B097C400.0050	B0503510.0050 B050C410.0050	
B0513500.0060 B0513500.0070 B0513500.0080	B0513700.0060 B0513700.0080	B051C400.0060 B051C400.0080	B0973500.0060 B0973500.0080	B0973700.0060 B0973700.0080	B097C400.0060 B097C400.0080	B0503510.0060 B0503510.0080 B050C410.0060 B050C410.0080	
B0513500.0100	B0513700.0100	B051C400.0100	B0973500.0100	B0973700.0100	B097C400.0100	B0503510.0100 B050C410.0100	

M	1
	1,1
	1,2
	1,4
	1,6
	1,7
	1,8
	2
	2,2
	2,3
	2,5
	2,6
	3
	3,5
	4
	4,5
	5
	5,5
	6
	7
	8
	9
	10
	12

Product
Finder

V_c

M

MF

UNC
UN-8

UNC
UNEF

G, Rp

NPSM, NPSF

NPT, NPTF

Rc, W

BSW, BSF

Pg

MJ

UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F

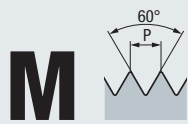
Rd

Zubehör

Accessories

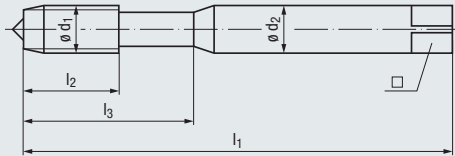


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material ▶▶ 78

Z シングロ加工



ISO 3/6G	ISO 3/6G	ISO 3/6G	ISO 3/6G
HSSE	GLT-1	HSSE	TIN
R45	HSSE	R45	HSSE
C / 2-3	R45	E / 1,5-2	R45
E / 0 / P	C / 2-3	E / 0 / P	E / 1,5-2
E / 0 / P	E / 0 / P	E / 0 / P	E / 0 / P

max. 3 x d₁



P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1
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M	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□		Enorm 1-Z	Enorm 1-Z GLT-1	Enorm 1-Z/E	Enorm 1-Z/E TIN
1,1	0,25	40	2,5	—	2,5	2,1	0,85					
1,2	0,25	40	2,5	—	2,5	2,1	0,95					
1,4	0,3	40	3	—	2,5	2,1	1,1					
1,6	0,35	40	4	11	2,5	2,1	1,25					
1,7	0,35	40	4	11	2,5	2,1	1,35					
1,8	0,35	40	4	11	2,5	2,1	1,45					
2	0,4	45	4	12	2,8	2,1	1,6	B0503520.0020	B050C420.0020	B0513520.0020		
2,2	0,45	45	4,5	12	2,8	2,1	1,75					
2,3	0,4	45	4,5	12	2,8	2,1	1,9					
2,5	0,45	50	5	14	2,8	2,1	2,05	B0503520.0025	B050C420.0025	B0513520.0025		
2,6	0,45	50	5	14	2,8	2,1	2,15					
3	0,5	56	6	18	3,5	2,7	2,5	B0503520.0030	B050C420.0030	B0513520.0030	B0513720.0030	
3,5	0,6	56	7	20	4	3	2,9					
4	0,7	63	7	21	4,5	3,4	3,3	B0503520.0040	B050C420.0040	B0513520.0040	B0513720.0040	
4,5	0,75	70	8	25	6	4,9	3,7					
5	0,8	70	8	25	6	4,9	4,2	B0503520.0050	B050C420.0050	B0513520.0050	B0513720.0050	
5,5	0,9	80	10	30	6	4,9	4,6					
6	1	80	10	30	6	4,9	5	B0503520.0060	B050C420.0060	B0513520.0060	B0513720.0060	
7	1	80	10	30	7	5,5	6					
8	1,25	90	14	35	8	6,2	6,8	B0503520.0080	B050C420.0080	B0513520.0080	B0513720.0080	
9	1,25	90	14	35	9	7	7,8					
10	1,5	100	16	39	10	8	8,5	B0503520.0100	B050C420.0100	B0513520.0100	B0513720.0100	
12	1,75	110	18	44	12	9	10,2					

DIN 376		140	140	140	140
DIN 352					

Z
シングロ加工



ISO 3/6G	7G	7G	6H +0,1 2)	6H +0,1 2)	ISO 2/6H	ISO 2/6H
GLT-1		GLT-1		GLT-1		GLT-1
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
R45	R45	R45	R45	R45	左ねじ, L45	左ねじ, L45
E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3
E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	E / O / P

max. 3 x d₁



P 1.1-4.1	P 1.1-3.1	P 1.1-4.1	P 1.1-3.1	P 1.1-4.1	P 1.1-3.1	P 1.1-4.1
M 1.1-4.1		M 1.1-4.1		M 1.1-4.1		M 1.1-4.1
N 1.4, 2.1-2.2		N 1.4, 2.1-2.2		N 1.4, 2.1-2.2		N 1.4, 2.1-2.2
N 2.4-2.5		N 2.4-2.5		N 2.4-2.5		N 2.4-2.5
S 1.1		S 1.1		S 1.1		S 1.1

Enorm 1-Z/E GLT-1	Enorm 1-Z	Enorm 1-Z GLT-1	Enorm 1-Z	Enorm 1-Z GLT-1	Enorm 1-Z-LH	Enorm 1-Z-LH GLT-1
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							M 1
							1,1
							1,2
							1,4
							1,6
							1,7
							1,8
	B0503530.0020	B050C430.0020			B0503550.0020		2
							2,2
	B0503530.0025	B050C430.0025			B0503550.0025		2,3
							2,5
							2,6
B051C420.0030	B0503530.0030	B050C430.0030	B0503540.0030	B050C440.0030	B0503550.0030	B050C450.0030	3
B051C420.0040	B0503530.0040	B050C430.0040	B0503540.0040	B050C440.0040	B0503550.0040	B050C450.0040	3,5
B051C420.0050	B0503530.0050	B050C430.0050	B0503540.0050	B050C440.0050	B0503550.0050	B050C450.0050	4
B051C420.0060	B0503530.0060	B050C430.0060			B0503550.0060	B050C450.0060	4,5
B051C420.0080	B0503530.0080	B050C430.0080			B0503550.0080	B050C450.0080	5
B051C420.0100	B0503530.0100	B050C430.0100			B0503550.0100	B050C450.0100	5,5
							6
							7
							8
							9
							10
							12



2) オーバーサイズタップ使用時は下穴径を0,1 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.1 mm

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

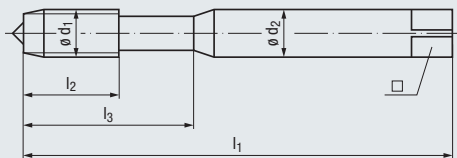


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 371



Z シングロ加工



NEW



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

6HX	6HX
HSSE	GLT-1
R50	HSSE
C / 2-3	C / 2-3
E / O / P	E / O / P

ねじ深さと穴形状
Thread depth and hole type

max. 3 x d₁



アプリケーション - 被削材
Applications - material 78

P 1.1-3.1	P 1.1-4.1
	M 1.1-4.1
	N 1.4, 2.1-2.2
	N 2.4-2.5
	S 1.1

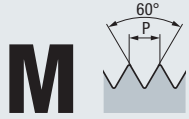
∅ d ₁ mm	P mm	l ₁	l ₂	l ₃	∅ d ₂	□		Enorm 1-Z50	Enorm 1-Z50 GLT-1
M 1	0,25	40	2,5	—	2,5	2,1	0,75		
1,1	0,25	40	2,5	—	2,5	2,1	0,85		
1,2	0,25	40	2,5	—	2,5	2,1	0,95		
1,4	0,3	40	3	—	2,5	2,1	1,1		
1,6	0,35	40	4	11	2,5	2,1	1,25		
1,7	0,35	40	4	11	2,5	2,1	1,35		
1,8	0,35	40	4	11	2,5	2,1	1,45		
2	0,4	45	4	12	2,8	2,1	1,6	B0653501.0020	
2,2	0,45	45	4,5	12	2,8	2,1	1,75		
2,3	0,4	45	4,5	12	2,8	2,1	1,9		
2,5	0,45	50	5	14	2,8	2,1	2,05	B0653501.0025	
2,6	0,45	50	5	14	2,8	2,1	2,15		
3	0,5	56	6	18	3,5	2,7	2,5	B0653501.0030	B065C401.0030
3,5	0,6	56	7	20	4	3	2,9		
4	0,7	63	7	21	4,5	3,4	3,3	B0653501.0040	B065C401.0040
4,5	0,75	70	8	25	6	4,9	3,7		
5	0,8	70	8	25	6	4,9	4,2	B0653501.0050	B065C401.0050
5,5	0,9	80	10	30	6	4,9	4,6		
6	1	80	10	30	6	4,9	5	B0653501.0060	B065C401.0060
7	1	80	10	30	7	5,5	6		
8	1,25	90	14	35	8	6,2	6,8	B0653501.0080	B065C401.0080
9	1,25	90	14	35	9	7	7,8		
10	1,5	100	16	39	10	8	8,5	B0653501.0100	B065C401.0100
12	1,75	110	18	44	12	9	10,2		

DIN 376

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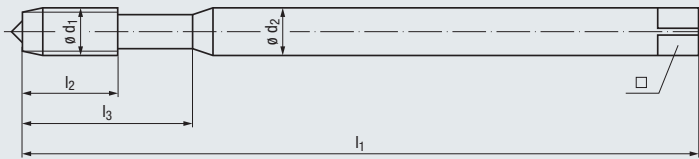
142

DIN 352



DIN 13

エクストラロングシャンク
With extra long shank



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファァー
切削油

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	\square		Rekord 1B-STEEL-L LS	Rekord 1D-STEEL/E LS	Rekord 1DF-STEEL LS-TIN
M 3	0,5	100	11	18	3,5	2,7	2,5	B2208900.0030	B2461000.0030	B2401400.0030
4	0,7	125	13	21	4,5	3,4	3,3	B2208900.0040	B2461000.0040	B2401400.0040
5	0,8	140	15	25	6	4,9	4,2	B2208900.0050	B2461000.0050	B2401400.0050
6	1	160	17	30	6	4,9	5	B2208900.0060	B2461000.0060	B2401400.0060
8	1,25	180	20	35	8	6,2	6,8	B2208900.0080	B2461000.0080	B2401400.0080
10	1,5	200	22	39	10	8	8,5	B2208900.0080	B2461000.0080	B2401400.0100

STEEL
鋼

new



ISO 2/6H

ISO 2/6H

ISO 2/6H

HSSE

HSSE

TIN
HSSE

B / 4-5

R15
E / 1,5-2

R15
C / 2-3

E / 0

E / 0

E / 0

max. 3 x d_1



max. 2 x d_1



P 1.1-3.1
N 2.2

P 2.1-3.1

P 3.1-4.1

143

143

143

1) M4 以上で軸芯オイルホール付き (IKZ) が製作可能です
From M4 also available with internal coolant supply IKZ

2) M5 以上で径方向オイルホール付き (IKZN) が製作可能です
From M5 also available with internal coolant supply IKZN

Product
Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

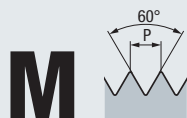
SELF-LOCK

Tr, Tr-F
Rd

Zubehör
Accessories

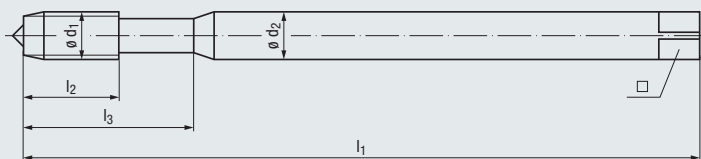


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

エクストラロングシャンク
With extra long shank



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material
チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material



VA
ステンレス



2)



2)



l₂ ≈ 10 x P

1)

ISO 2/6H	ISO 2/6H	ISO 2/6H
NT	GLT-1	
HSSE	HSSE	HSSE
		R35
B / 4-5	B / 4-5	C / 2-3
E / O / P	E / O / P	E / O / P

max. 3 x d₁



max. 2,5 x d₁



P 2.1-3.1	P 1.1-4.1	P 1.1-3.1
N 2.2, 2.5	M 1.1-4.1	
	N 2.2	

Ø d ₁ mm	P mm	l ₁	l ₂	l ₃	Ø d ₂	□		Rekord 1B-VA LS-NT	Rekord 1B-VA LS-GLT-1	Enorm 1-VA LS
M 3	0,5	100	11	18	3,5	2,7	2,5	B2203000.0030	B220C300.0030	B2503000.0030
4	0,7	125	13	21	4,5	3,4	3,3	B2203000.0040	B220C300.0040	B2503000.0040
5	0,8	140	15	25	6	4,9	4,2	B2203000.0050	B220C300.0050	B2503000.0050
6	1	160	17	30	6	4,9	5	B2203000.0060	B220C300.0060	B2503000.0060
8	1,25	180	20	35	8	6,2	6,8	B2203000.0080	B220C300.0080	B2503000.0080
10	1,5	200	22	39	10	8	8,5			







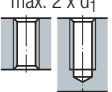






144

144

144

1) M4 以上で軸芯オイルホール付き (IKZ) が製作可能です
From M4 also available with internal coolant supply IKZ

2) M5 以上で径方向オイルホール付き (IKZN) が製作可能です
From M5 also available with internal coolant supply IKZN

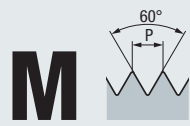
H 高強度鋼		シンク加工					
							
1) 2)		l ₂ ≈ 10 x P	1)	1)			
6HX		6HX	ISO 2/6H	ISO 2/6H			
NT		TIN		GLT-1			
HSSE		HSSE	HSSE	HSSE			
		R15	R45	R45			
C / 2-3		C / 2-3	C / 2-3	C / 2-3			
E / O / P		E / O	E / O / P	E / O / P			
max. 2 x d ₁		max. 2 x d ₁	max. 3 x d ₁				
							
K 1.1-4.2		P 3.1-5.1	P 1.1-3.1	P 1.1-4.1			
N 4.1		N 2.4-2.5		M 1.1-4.1			
				N 1.4, 2.1-2.2			
				N 2.4-2.5			
				S 1.1			
Rekord 1A-H LS-NT		Rekord 1D-Z-BF- IKZ LS-TIN	Enorm 1-Z LS	Enorm 1-Z-LS GLT-1			
B2100501.0030		B4093701.0040	B2503500.0030	B250C400.0030			M 3
B2100501.0040		B4093701.0050	B2503500.0040	B250C400.0040			4
B2100501.0050		B4093701.0060	B2503500.0050	B250C400.0050			5
B2100501.0060		B4093701.0080	B2503500.0060	B250C400.0060			6
B2100501.0080		B4093701.0100	B2503500.0080	B250C400.0080			8
							10
 145		 145	 145	 145			

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



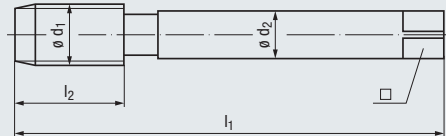
シャンクエクステンションは 302 - 304ページをご覧ください。
Special shank extensions for using standard taps, see page 302 - 304

- Product Finder
- Vc
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 376



STEEL 鋼



公差 · Tolerance
 コーティング · Coating
 母材 · Cutting material

技術情報
 Technical information

チャンファー · 切削油 ·

6HX	ISO 2/6H	ISO 2/6H	ISO 1/4H
HSSE	HSSE	TIN HSSE	HSSE
C / 2-3 E / 0	B / 4-5 E / 0	B / 4-5 E / 0	B / 4-5 E / 0

ねじ深さと穴形状
 Thread depth and hole type



アプリケーション - 被削材
 Applications - material ▶▶ 78

K 1.1-4.2 N 2.3	P 1.1-3.1 N 2.2	P 1.1-4.1	P 1.1-3.1 N 2.2
----------------------------------	----------------------------------	------------------	----------------------------------

$\varnothing d_1$ mm	P mm	l_1	l_2	$\varnothing d_2$	□		Rekord 2A-STEEL	Rekord 2B-STEEL-L	Rekord 2B-STEEL-L TIN	Rekord 2B-STEEL-L
M 3	0,5	56	11	2,2	-	2,5				
4	0,7	63	13	2,8	2,1	3,3	C0101001.0040			
5	0,8	70	15	3,5	2,7	4,2	C0101001.0050	C0208900.0050	C0208400.0050	
6	1	80	17	4,5	3,4	5	C0101001.0060	C0208900.0060	C0208400.0060	
7	1	80	17	5,5	4,3	6				
8	1,25	90	20	6	4,9	6,8	C0101001.0080	C0208900.0080	C0208400.0080	
9	1,25	90	20	7	5,5	7,8				
10	1,5	100	22	7	5,5	8,5	C0101001.0100	C0208900.0100	C0208400.0100	
11	1,5	100	22	8	6,2	9,5	C0101001.0111	C0208900.0111	C0208400.0111	
12	1,75	110	24	9	7	10,2	C0101001.0112	C0208900.0112	C0208400.0112	C0208910.0112
14	2	110	26	11	9	12	C0101001.0114	C0208900.0114	C0208400.0114	C0208910.0114
16	2	110	27	12	9	14	C0101001.0116	C0208900.0116	C0208400.0116	C0208910.0116
18	2,5	125	30	14	11	15,5	C0101001.0118	C0208900.0118	C0208400.0118	C0208910.0118
20	2,5	140	32	16	12	17,5	C0101001.0120	C0208900.0120	C0208400.0120	C0208910.0120
22	2,5	140	32	18	14,5	19,5	C0101001.0122	C0208900.0122	C0208400.0122	C0208910.0122
24	3	160	34	18	14,5	21	C0101001.0124	C0208900.0124	C0208400.0124	C0208910.0124
27	3	160	36	20	16	24	C0101001.0127	C0208900.0127	C0208400.0127	
30	3,5	180	40	22	18	26,5	C0101001.0130	C0208900.0130	C0208400.0130	
33	3,5	180	40	25	20	29,5	C0101001.0133	C0208900.0133	C0208400.0133	
36	4	200	50	28	22	32	C0101001.0136	C0208900.0136	C0208400.0136	
39	4	200	50	32	24	35	C0101001.0139	C0208900.0139	C0208400.0139	
42	4,5	200	56	32	24	37,5	C0101001.0142	C0208900.0142	C0208400.0142	
45	4,5	220	58	36	29	40,5	C0101001.0145	C0208900.0145	C0208400.0145	
48	5	250	65	36	29	43	C0101001.0148	C0208900.0148	C0208400.0148	
52	5	250	65	40	32	47	C0101001.0152	C0208900.0152	C0208400.0152	















DIN 371

92 92 92 93

DIN 352

150 150

STEEL
鋼

 	 	 	 	 	 	 
ISO 1/4H TIN HSSE B / 4-5 E / O	ISO 3/6G HSSE B / 4-5 E / O	ISO 3/6G TIN HSSE B / 4-5 E / O	7G HSSE B / 4-5 E / O	7G TIN HSSE B / 4-5 E / O	ISO 2/6H HSSE 左ねじ B / 4-5 E / O	ISO 2/6H TIN HSSE 左ねじ B / 4-5 E / O

max. 3 x d₁



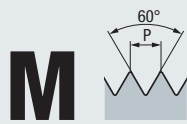
P 1.1-4.1	P 1.1-3.1 N 2.2	P 1.1-4.1	P 1.1-3.1 N 2.2	P 1.1-4.1	P 1.1-3.1 N 2.2	P 1.1-4.1
Rekord 2B-STEEL-L TIN	Rekord 2B-STEEL-L	Rekord 2B-STEEL-L TIN	Rekord 2B-STEEL-L	Rekord 2B-STEEL-L TIN	Rekord 2B-STEEL-L-LH	Rekord 2B-STEEL-L-LH TIN
C0208410.0112 C0208410.0114 C0208410.0116 C0208410.0118 C0208410.0120 C0208410.0122 C0208410.0124	C0208920.0112 C0208920.0114 C0208920.0116 C0208920.0118 C0208920.0120 C0208920.0122 C0208920.0124	C0208420.0112 C0208420.0114 C0208420.0116 C0208420.0118 C0208420.0120 C0208420.0122 C0208420.0124	C0208930.0112 C0208930.0114 C0208930.0116 C0208930.0118 C0208930.0120 C0208930.0122 C0208930.0124	C0208430.0112 C0208430.0114 C0208430.0116 C0208430.0118 C0208430.0120 C0208430.0122 C0208430.0124	C0208950.0112 C0208950.0114 C0208950.0116 C0208950.0118 C0208950.0120 C0208950.0122 C0208950.0124	C0208450.0112 C0208450.0114 C0208450.0116 C0208450.0118 C0208450.0120 C0208450.0122 C0208450.0124
93	93	93	93	93	93	93

M	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	14
	16
	18
	20
	22
	24
	27
	30
	33
	36
	39
	42
	45
	48
	52

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

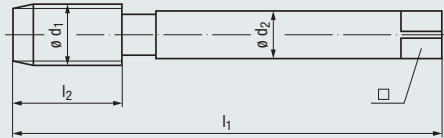


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



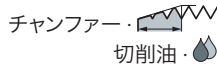
DIN 13

DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material



ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material ▶▶ 78

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□	
M	3	0,5	56	11	2,2	-	2,5
	4	0,7	63	13	2,8	2,1	3,3
	5	0,8	70	15	3,5	2,7	4,2
	6	1	80	17	4,5	3,4	5
	7	1	80	17	5,5	4,3	6
	8	1,25	90	20	6	4,9	6,8
	9	1,25	90	20	7	5,5	7,8
	10	1,5	100	22	7	5,5	8,5
	11	1,5	100	22	8	6,2	9,5
	12	1,75	110	24	9	7	10,2
	14	2	110	26	11	9	12
	16	2	110	27	12	9	14
	18	2,5	125	30	14	11	15,5
	20	2,5	140	32	16	12	17,5
	22	2,5	140	32	18	14,5	19,5
	24	3	160	34	18	14,5	21
	27	3	160	36	20	16	24
	30	3,5	180	40	22	18	26,5
	33	3,5	180	40	25	20	29,5
	36	4	200	50	28	22	32
	39	4	200	50	32	24	35
	42	4,5	200	56	32	24	37,5
	45	4,5	220	58	36	29	40,5
	48	5	250	65	36	29	43
	52	5	250	65	40	32	47

DIN 371	
DIN 352	

STEEL
鋼

NEW 	NEW 		
6HX ALCR-102 HSSE 粉末	6HX ALCR-101 HSSE 粉末	ISO 2/6H HSSE R15 C / 2-3 E / O	ISO 2/6H HSSE R15 E / 1,5-2 E / O
B / \approx 6 E / O	B / \approx 6 E / O		

max. 3 x d₁



max. 2 x d₁



P 3.1-5.1	P 3.1-5.1	P 2.1-3.1	P 2.1-3.1
------------------	------------------	------------------	------------------

Rekord 2B-STEEL-H PM-ALCR-102	Rekord 2B-STEEL-H PM-ALCR-101	Rekord 2D-STEEL	Rekord 2D-STEEL/E
		C0451000.0060	
		C0451000.0080	
		C0451000.0100	
C0209J01.0112	C0208J01.0112	C0451000.0112	C0461000.0112
C0209J01.0116	C0208J01.0116	C0451000.0116	C0461000.0116
C0209J01.0120	C0208J01.0120	C0451000.0120	C0461000.0120
C0209J01.0124	C0208J01.0124	C0451000.0124 C0451000.0127 C0451000.0130	C0461000.0124

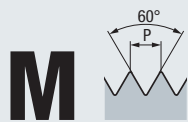
94	94	94	94
		150	

STEEL 鋼			VA ステンレス			
ISO 2/6H TIN HSSE R15 C / 2-3 E / O	ISO 2/6H HSSE R35 C / 2-3 E / O	ISO 2/6H TIN HSSE R35 C / 2-3 E / O	ISO 2/6H NT HSSE B / 4-5 E / O / P	ISO 2/6H TIN HSSE B / 4-5 E / O / P	ISO 2/6H GLT-1 HSSE B / 4-5 E / O / P	ISO 1/4H NT HSSE B / 4-5 E / O / P
max. 2 x d ₁ 	max. 2,5 x d ₁ 		max. 3 x d ₁ 			
P 3.1-4.1	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 2.1-3.1 N 2.2, 2.5
Rekord 2DF-STEEL TIN	Enorm 2-STEEL	Enorm 2-STEEL TIN	Rekord 2B-VA NT	Rekord 2B-VA TIN	Rekord 2B-VA GLT-1	Rekord 2B-VA NT
			C0203000.0050	C0203100.0050	C020C300.0050	
			C0203000.0060	C0203100.0060	C020C300.0060	
			C0203000.0080	C0203100.0080	C020C300.0080	
			C0203000.0100	C0203100.0100	C020C300.0100	
			C0203000.0111	C0203100.0111	C020C300.0111	
C0401400.0112	C0501000.0112	C0501400.0112	C0203000.0112	C0203100.0112	C020C300.0112	C0203010.0112
	C0501000.0114	C0501400.0114	C0203000.0114	C0203100.0114	C020C300.0114	C0203010.0114
C0401400.0116	C0501000.0116	C0501400.0116	C0203000.0116	C0203100.0116	C020C300.0116	C0203010.0116
	C0501000.0118	C0501400.0118	C0203000.0118	C0203100.0118	C020C300.0118	C0203010.0118
C0401400.0120	C0501000.0120	C0501400.0120	C0203000.0120	C0203100.0120	C020C300.0120	C0203010.0120
	C0501000.0122	C0501400.0122	C0203000.0122	C0203100.0122	C020C300.0122	C0203010.0122
C0401400.0124	C0501000.0124	C0501400.0124	C0203000.0124	C0203100.0124	C020C300.0124	C0203010.0124
			C0203000.0127	C0203100.0127	C020C300.0127	
	C0501000.0130	C0501400.0130	C0203000.0130	C0203100.0130	C020C300.0130	
	C0501000.0133	C0501400.0133	C0203000.0133	C0203100.0133	C020C300.0133	
	C0501000.0136	C0501400.0136	C0203000.0136	C0203100.0136	C020C300.0136	
	C0501000.0139	C0501400.0139	C0203000.0139	C0203100.0139	C020C300.0139	
	C0501000.0142	C0501400.0142	C0203000.0142	C0203100.0142	C020C300.0142	
	C0501000.0145	C0501400.0145	C0203000.0145	C0203100.0145	C020C300.0145	
	C0501000.0148	C0501400.0148	C0203000.0148	C0203100.0148	C020C300.0148	
	C0501000.0152	C0501400.0152	C0203000.0152	C0203100.0152	C020C300.0152	
📄 95	📄 95	📄 95	📄 95	📄 95	📄 95	📄 95
			📄 151			

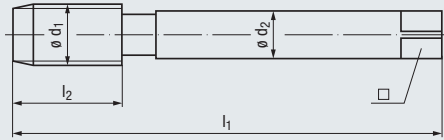
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



DIN 13



DIN 376

VA
ステンレス



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

max. 3 x d₁



アプリケーション - 被削材
Applications - material 78

P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1
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M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Rekord 2B-VA TIN	Rekord 2B-VA GLT-1	Rekord 2B-VA NT	Rekord 2B-VA TIN
4	0,7	63	13	2,8	2,1	3,3					
5	0,8	70	15	3,5	2,7	4,2					
6	1	80	17	4,5	3,4	5					
7	1	80	17	5,5	4,3	6					
8	1,25	90	20	6	4,9	6,8					
9	1,25	90	20	7	5,5	7,8					
10	1,5	100	22	7	5,5	8,5					
11	1,5	100	22	8	6,2	9,5					
12	1,75	110	24	9	7	10,2	C0203110.0112	C020C310.0112	C0203020.0112	C0203120.0112	
14	2	110	26	11	9	12	C0203110.0114	C020C310.0114	C0203020.0114	C0203120.0114	
16	2	110	27	12	9	14	C0203110.0116	C020C310.0116	C0203020.0116	C0203120.0116	
18	2,5	125	30	14	11	15,5	C0203110.0118	C020C310.0118	C0203020.0118	C0203120.0118	
20	2,5	140	32	16	12	17,5	C0203110.0120	C020C310.0120	C0203020.0120	C0203120.0120	
22	2,5	140	32	18	14,5	19,5	C0203110.0122	C020C310.0122	C0203020.0122	C0203120.0122	
24	3	160	34	18	14,5	21	C0203110.0124	C020C310.0124	C0203020.0124	C0203120.0124	
27	3	160	36	20	16	24					
30	3,5	180	40	22	18	26,5					
33	3,5	180	40	25	20	29,5					
36	4	200	50	28	22	32					
39	4	200	50	32	24	35					
42	4,5	200	56	32	24	37,5					
45	4,5	220	58	36	29	40,5					
48	5	250	65	36	29	43					
52	5	250	65	40	32	47					

DIN 371

96

96

96

96

DIN 352

VA
ステンレス

ISO 3/6G	7G	7G	7G	ISO 2/6H	ISO 2/6H	ISO 2/6H	ISO 2/6H
GLT-1	NT	TIN	GLT-1	NT	TIN	GLT-1	
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
			左ねじ	左ねじ	左ねじ	左ねじ	
B / 4-5	B / 4-5	B / 4-5	B / 4-5	B / 4-5	B / 4-5	B / 4-5	R35
E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	C / 2-3
							E / O / P

max. 3 x d₁



max. 2,5 x d₁



P 1.1-4.1	P 2.1-3.1	P 1.1-4.1	P 1.1-4.1	P 2.1-3.1	P 1.1-4.1	P 1.1-4.1	P 1.1-3.1
M 1.1-4.1	N 2.2, 2.5		M 1.1-4.1	N 2.2, 2.5		M 1.1-4.1	
N 2.2			N 2.2			N 2.2	

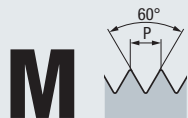
Rekord 2B-VA GLT-1	Rekord 2B-VA NT	Rekord 2B-VA TIN	Rekord 2B-VA GLT-1	Rekord 2B-VA-LH NT	Rekord 2B-VA-LH TIN	Rekord 2B-VA-LH GLT-1	Enorm 2 VA
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								M	3
									4
									5
									6
									7
									8
									9
									10
									11
									12
C020C320.0112	C0203030.0112	C0203130.0112	C020C330.0112	C0203050.0112	C0203150.0112	C020C350.0112	C0503000.0112		12
C020C320.0114	C0203030.0114	C0203130.0114	C020C330.0114	C0203050.0114	C0203150.0114	C020C350.0114	C0503000.0114		14
C020C320.0116	C0203030.0116	C0203130.0116	C020C330.0116	C0203050.0116	C0203150.0116	C020C350.0116	C0503000.0116		16
C020C320.0118	C0203030.0118	C0203130.0118	C020C330.0118	C0203050.0118	C0203150.0118	C020C350.0118	C0503000.0118		18
C020C320.0120	C0203030.0120	C0203130.0120	C020C330.0120	C0203050.0120	C0203150.0120	C020C350.0120	C0503000.0120		20
C020C320.0122	C0203030.0122	C0203130.0122	C020C330.0122	C0203050.0122	C0203150.0122	C020C350.0122	C0503000.0122		22
C020C320.0124	C0203030.0124	C0203130.0124	C020C330.0124	C0203050.0124	C0203150.0124	C020C350.0124	C0503000.0124		24
									27
									30
									33
									36
									39
									42
									45
									48
									52

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

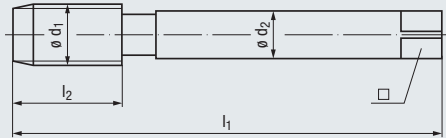


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

INOX
ステンレス



NEW



$l_2 \approx 10 \times P$

GG
鋳鉄



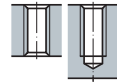
- ISO 2/6H
- GLT-201
- HSSE
- R45
- C / 2-3
- E / O

- | | |
|---------|---------|
| 6HX | 6HX |
| NT | TICN |
| HSSE | HSSE |
| C / 2-3 | C / 2-3 |
| E | E |

max. 2,5 x d₁



max. 2 x d₁



M 1.1-2.1

K 1.1-1.2

K 1.1-1.2

Enorm 2
INOX
GLT-201

Rekord
2A-GG
NT

Rekord
2A-GG
TICN

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□				
M	3	0,5	56	11	2,2	–	2,5			
	4	0,7	63	13	2,8	2,1	3,3			
	5	0,8	70	15	3,5	2,7	4,2			
	6	1	80	17	4,5	3,4	5			C0102001.0060 C0109201.0060
	7	1	80	17	5,5	4,3	6			
	8	1,25	90	20	6	4,9	6,8			C0102001.0080 C0109201.0080
	9	1,25	90	20	7	5,5	7,8			
	10	1,5	100	22	7	5,5	8,5			C0102001.0100 C0109201.0100
	11	1,5	100	22	8	6,2	9,5			
	12	1,75	110	24	9	7	10,2			C050J300.0112 C0102001.0112 C0109201.0112
	14	2	110	26	11	9	12			C050J300.0114 C0102001.0114 C0109201.0114
	16	2	110	27	12	9	14			C050J300.0116 C0102001.0116 C0109201.0116
	18	2,5	125	30	14	11	15,5			C050J300.0118 C0102001.0118 C0109201.0118
	20	2,5	140	32	16	12	17,5			C050J300.0120 C0102001.0120 C0109201.0120
	22	2,5	140	32	18	14,5	19,5			C050J300.0122 C0102001.0122 C0109201.0122
	24	3	160	34	18	14,5	21			C050J300.0124 C0102001.0124 C0109201.0124
	27	3	160	36	20	16	24			C0102001.0127 C0102001.0130
	30	3,5	180	40	22	18	26,5			
	33	3,5	180	40	25	20	29,5			
	36	4	200	50	28	22	32			
	39	4	200	50	32	24	35			
	42	4,5	200	56	32	24	37,5			
45	4,5	220	58	36	29	40,5				
48	5	250	65	36	29	43				
52	5	250	65	40	32	47				

DIN 371

98

98

98

DIN 352

GJV

バミキュラー鋳鉄

6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN HSSE 粉末	6HX TICN 超硬	6HX TICN 超硬
C / 2-3 E	C / 2-3 E	C / 2-3 E	E / 1,5-2 E	E / 1,5-2 E	E / 1,5-2 E	C / 2-3 E	E / 1,5-2 E
K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
Rekord 2A-GJV PM-TICN	Rekord 2A-GJV- IKZ PM-TICN	Rekord 2A-GJV- IKZN PM-TICN	Rekord 2A-GJV/ E PM-TICN	Rekord 2A-GJV/ E- IKZ PM-TICN	Rekord 2A-GJV- IKZN PM-TICN	KHM-Rekord 2A-GJV- IKZ TICN	KHM-Rekord 2A-GJV- E- IKZ TICN
C010R501.0112	C195R501.0112	C106R501.0112	C011R501.0112	C196R501.0112	C109R501.0112	C1951P01.0112	C1961P01.0112
C010R501.0116	C195R501.0116	C106R501.0116	C011R501.0116	C196R501.0116	C109R501.0116	C1951P01.0116	C1961P01.0116
	C195R501.0120	C106R501.0120		C196R501.0120	C109R501.0120	C1951P01.0120	C1961P01.0120

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



M	3
	4
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	52

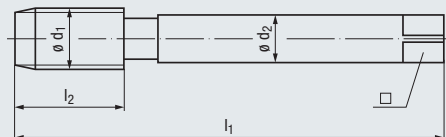
1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Product Finder
Vc
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



M
DIN 13

DIN 376



AL
アルミ合金
展伸材



ISO 2/6H	ISO 2/6H GLT-104	ISO 2/6H	ISO 2/6H GLT-104
HSSE	HSSE	HSSE	HSSE
B / ≈3	B / ≈3	R35	R35
E / O	E / O	C / 2-3	C / 2-3
		E / O	E / O

技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

max. 3 x d_1



max. 2.5 x d_1



アプリケーション - 被削材
Applications - material

N 1.4 N 1.1-1.4, 2.1 N 1.4 N 1.1-1.4, 2.1

M	$\varnothing d_1$ mm	P mm	l_1	l_2	$\varnothing d_2$	□	□						
								Rekord 2B-AL	Rekord 2B-AL GLT-104	Enorm 2-AL	Enorm 2-AL GLT-104		
	3	0,5	56	11	2,2	-	2,5						
	4	0,7	63	13	2,8	2,1	3,3						
	5	0,8	70	15	3,5	2,7	4,2						
	6	1	80	17	4,5	3,4	5						
	7	1	80	17	5,5	4,3	6						
	8	1,25	90	20	6	4,9	6,8						
	9	1,25	90	20	7	5,5	7,8						
	10	1,5	100	22	7	5,5	8,5						
	11	1,5	100	22	8	6,2	9,5						
	12	1,75	110	24	9	7	10,2	C0204500.0112	C0203G00.0112	C0504500.0112	C0503G00.0112		
	14	2	110	26	11	9	12	C0204500.0114	C0203G00.0114	C0504500.0114	C0503G00.0114		
	16	2	110	27	12	9	14	C0204500.0116	C0203G00.0116	C0504500.0116	C0503G00.0116		
	18	2,5	125	30	14	11	15,5						
	20	2,5	140	32	16	12	17,5	C0204500.0120	C0203G00.0120	C0504500.0120	C0503G00.0120		
	22	2,5	140	32	18	14,5	19,5						
	24	3	160	34	18	14,5	21						
	27	3	160	36	20	16	24						
	30	3,5	180	40	22	18	26,5						
	33	3,5	180	40	25	20	29,5						
	36	4	200	50	28	22	32						
	39	4	200	50	32	24	35						
	42	4,5	200	56	32	24	37,5						
	45	4,5	220	58	36	29	40,5						
	48	5	250	65	36	29	43						
	52	5	250	65	40	32	47						
								DIN 371		100	100	100	100
								DIN 352					

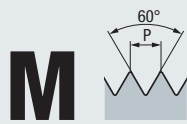
TI チタン合金				NI ニッケル基合金			
6HX	6HX	6HX	6HX	6HX	6HX		
NT2	TICN	NT2	TICN	TICN	TICN		
HSSE	HSSE	HSSE	HSSE	HSSE 粉末	HSSE 粉末		
L15	L15	R15	R15	L08	R10		
D / 4-5	D / 4-5	C / 2-3	C / 2-3	D / 4-5	C / 2-3		
E / O / P	E / O / P	E / O / P	E / O / P	O / P	O / P		
max. 3 x d ₁ 		max. 2 x d ₁ 		max. 3 x d ₁ 		max. 2 x d ₁ 	
P 4.1-5.1	P 4.1-5.1	P 4.1-5.1	P 4.1-5.1	N 2.8	N 2.8		
M 3.1-4.1	M 3.1-4.1	M 3.1-4.1	M 3.1-4.1	S 2.3, 2.5-2.6	S 2.3, 2.5-2.6		
N 2.4-2.5, 2.7	N 2.4-2.5, 2.7	N 2.4-2.5, 2.7	N 2.4-2.5, 2.7				
S 1.1-2.2, 2.4	S 1.1-2.2, 2.4	S 1.1-2.2, 2.4	S 1.1-2.2, 2.4				
Rekord 2C-TI NT2	Rekord 2C-TI TICN	Rekord 2D-TI NT2	Rekord 2D-TI TICN	Rekord 2C-NI PM-TICN	Rekord 2DF-NI PM-TICN		
C0306001.0112	C0309601.0112	C0456001.0112 C0456001.0114	C0459601.0112 C0459601.0114	C030J401.0112 C030J401.0114	C438J401.0112 C438J401.0114		
C0306001.0116	C0309601.0116	C0456001.0116 C0456001.0118	C0459601.0116 C0459601.0118	C030J401.0116	C438J401.0116		
C0306001.0120	C0309601.0120	C0456001.0120 C0456001.0122	C0459601.0120 C0459601.0122	C030J401.0120	C438J401.0120		
C0306001.0124	C0309601.0124	C0456001.0124	C0459601.0124				

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



M	3
	4
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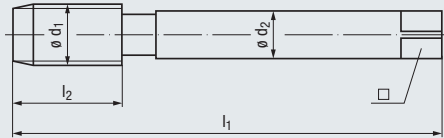
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 376

H 高強度鋼



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

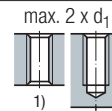
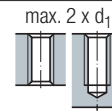
チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material



6HX	6HX	6HX	6HX
NT	TICN	NT	TICN
HSSE	HSSE	HSSE	HSSE
C / 2-3	C / 2-3	C / 2-3	C / 2-3
E / O / P	E / O / P	E / O	E / O



K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
N 4.1	N 1.5-1.6, 2.6	N 4.1	N 1.5-1.6, 2.6
	N 4.1, 5.1		N 4.1, 5.1

ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Rekord 2A-H NT	Rekord 2A-H TICN	Rekord 2A-H-IKZ NT	Rekord 2A-H-IKZ TICN
M 3	0,5	56	11	2,2	-	2,5				
4	0,7	63	13	2,8	2,1	3,3				
5	0,8	70	15	3,5	2,7	4,2				
6	1	80	17	4,5	3,4	5				
7	1	80	17	5,5	4,3	6				
8	1,25	90	20	6	4,9	6,8				
9	1,25	90	20	7	5,5	7,8				
10	1,5	100	22	7	5,5	8,5				
11	1,5	100	22	8	6,2	9,5				
12	1,75	110	24	9	7	10,2 2)	C0100501.0112	C0109101.0112	C1950501.0112	C1959101.0112
14	2	110	26	11	9	12 2)	C0100501.0114	C0109101.0114	C1950501.0114	C1959101.0114
16	2	110	27	12	9	14 2)	C0100501.0116	C0109101.0116	C1950501.0116	C1959101.0116
18	2,5	125	30	14	11	15,5	C0100501.0118	C0109101.0118	C1950501.0118	C1959101.0118
20	2,5	140	32	16	12	17,5 2)	C0100501.0120	C0109101.0120	C1950501.0120	C1959101.0120
22	2,5	140	32	18	14,5	19,5	C0100501.0122	C0109101.0122	C1950501.0122	C1959101.0122
24	3	160	34	18	14,5	21	C0100501.0124	C0109101.0124	C1950501.0124	C1959101.0124
27	3	160	36	20	16	24	C0100501.0127	C0109101.0127		
30	3,5	180	40	22	18	26,5	C0100501.0130	C0109101.0130		
33	3,5	180	40	25	20	29,5	C0100501.0133			
36	4	200	50	28	22	32	C0100501.0136			
39	4	200	50	32	24	35				
42	4,5	200	56	32	24	37,5				
45	4,5	220	58	36	29	40,5				
48	5	250	65	36	29	43				
52	5	250	65	40	32	47				

DIN 371

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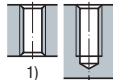
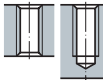



105

105

105

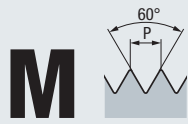
DIN 352

2) Rekord 2A-HCUT-PM-TICN 使用時は下穴径を0,2 mm 大きくしてください
Increase drill diameter for taps Rekord 2A-HCUT-PM-TICN by 0.2 mm

H 高強度鋼		HCUT 高硬度鋼								Product Finder	
											Product Finder
											V _c
	l ₂ ≈ 10 x P	l ₂ ≈ 10 x P									M
6HX	6HX	6HX									MF
TICN		TICN									UNC UN-8
HSSE	超硬	HSSE 粉末									UNF UNEF
C / 2-3	C / 2-3	C / 2-3									G, Rp NPSM, NPSF
E / O	E / O	O / P									NPT, NPTF Rc, W
max. 2 x d ₁	max. 2 x d ₁	max. 1,5 x d ₁									BSW, BSF
											Pg
K 1.1-4.2	K 1.1-4.2	H 1.1-1.2									MJ UNJC, UNJF
N 1.5-1.6, 2.6	N 1.5-1.6										EG (STI)
N 4.1, 5.1	N 2.6-2.8										SELF-LOCK
	N 4.1, 4.3-4.4										Tr, Tr-F Rd
	N 5.1-5.2										Zubehör Accessories
Rekord 2A-H-IKZN TICN	KHM-Rekord 2A-H-IKZ	Rekord 2A-HCUT PM-TICN									
											M 3
											4
											5
											6
											7
											8
											9
											10
											11
											12
C1069101.0112	C1950901.0112	C010J901.0112									14
C1069101.0114	C1950901.0114	C010J901.0114									16
C1069101.0116	C1950901.0116	C010J901.0116									18
C1069101.0118	C1950901.0118										20
C1069101.0120	C1950901.0120	C010J901.0120									22
C1069101.0122	C1950901.0122										24
C1069101.0124	C1950901.0124										27
	C1950901.0127										30
											33
											36
											39
											42
											45
											48
											52
 105	 105	 105									

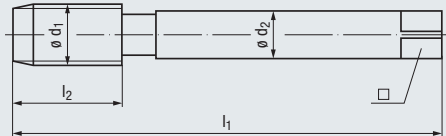
1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

≈ DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material ▶▶ 78

ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		KHM-Rekord 2A-HCUT/D IKZ-TiCN	KHM-Rekord 2A-HCUT/C IKZ-TiCN
M 20	2,5	140	30	16	12	17,7	C130K101.0120	C195K101.0120
24	3	160	36	18	14,5	21,2	C130K101.0124	C195K101.0124
30	3,5	180	42	22	18	26,7	C130K101.0130	C195K101.0130

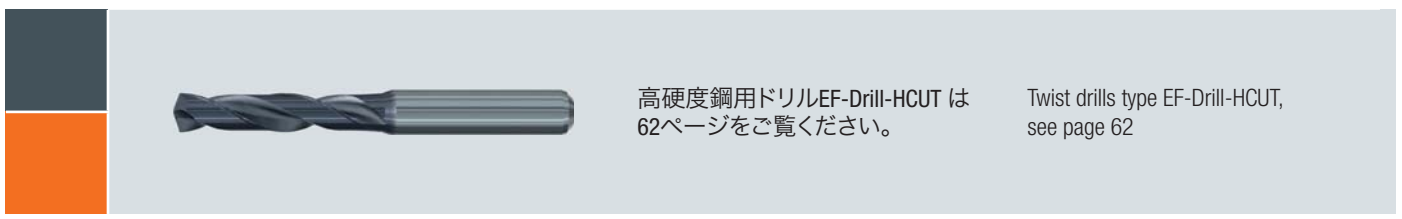
- 1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication
- 2) 食い付き山数4.5山タイプを #1 タップとしてご使用ください!
Please note: Use solid carbide tap KHM-Rekord 2A-HCUT/D- IKZ-TiCN as No.1 tap!

HCUT
高硬度鋼

NEW

NEW

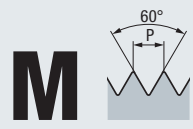
6HX	6HX
TICN	TICN
超硬	超硬
D / 4-5	C / 2-3
O / P	O / P
max. 1,5 x d ₁ 	max. 1,5 x d ₁
H 1.3-1.4	H 1.3-1.4



高硬度鋼用ドリルEF-Drill-HCUT は 62ページをご覧ください。

Twist drills type EF-Drill-HCUT, see page 62

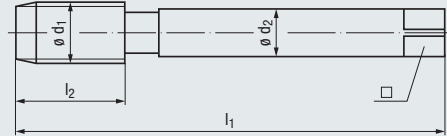
Product
Finder



DIN 13

DIN
376

Z
シングル加工



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

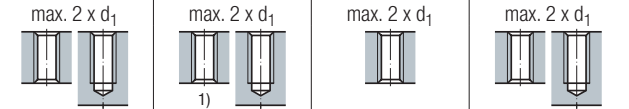
チャンファア · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78



6HX TICN HSSE C / 2-3 E / O / P max. 2 x d ₁	6HX TICN HSSE C / 2-3 E / O max. 2 x d ₁	6HX TICN HSSE C / 2-3 E / O max. 2 x d ₁	6HX TICN HSSE E / 1,5-2 E / O / P max. 2 x d ₁
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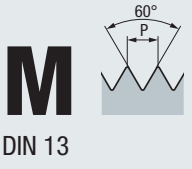
K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1
--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------

M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□			Rekord 2A-Z TICN	Rekord 2A-Z-1KZ TICN	Rekord 2A-Z-1KZN TICN	Rekord 2A-Z/E TICN
	3	0,5	56	6	2,2	—		2,5				
	4	0,7	63	7	2,8	2,1		3,3				
	5	0,8	70	8	3,5	2,7		4,2				
	6	1	80	10	4,5	3,4		5				
	7	1	80	10	5,5	4,3		6				
	8	1,25	90	14	6	4,9		6,8				
	9	1,25	90	14	7	5,5		7,8				
	10	1,5	100	16	7	5,5		8,5				
	11	1,5	100	18	8	6,2		9,5				
	12	1,75	110	18	9	7		10,2				
	14	2	110	20	11	9		12				
	16	2	110	22	12	9		14				
	18	2,5	125	25	14	11		15,5				
	20	2,5	140	25	16	12		17,5				
	22	2,5	140	27	18	14,5		19,5				
	24	3	160	30	18	14,5		21				
	27	3	160	30	20	16		24				
	30	3,5	180	35	22	18		26,5				
	33	3,5	180	35	25	20		29,5				
	36	4	200	40	28	22		32				
	39	4	200	40	32	24		35				
	42	4,5	200	45	32	24		37,5				
	45	4,5	220	45	36	29		40,5				
	48	5	250	50	36	29		43				
	52	5	250	50	40	32		47				

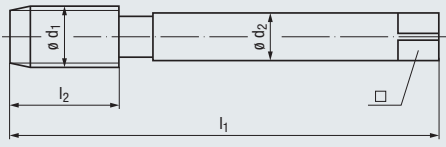
DIN 371	107	107	107	107
DIN 352				

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 376



公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information

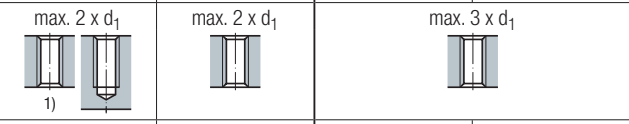
チャンファー · 切削油 ·

Z
シングロ加工



6HX	6HX	6HX	6HX
TICN	TICN	TIN-70	GLT-1
HSSE	HSSE	HSSE 粉末	HSSE 粉末
E / 1,5-2	E / 1,5-2	B / 4-5	B / 4-5
E / 0	E / 0	E / 0 / P	E / 0 / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material ▶▶ 78

K 1.1-4.2	K 1.1-4.2	P 2.1-5.1	P 1.1-5.1
N 1.5-1.6, 2.6	N 1.5-1.6, 2.6		M 1.1-4.1
N 4.1	N 4.1		K 1.1-3.2
			N 1.4, 2.1-2.2
			N 2.4-2.5
			S 1.1, 2.2-2.3

ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Rekord 2A-Z/E- IKZ TICN	Rekord 2A-Z/E- IKZN TICN	Rekord 2B-Z PM-TIN-70	Rekord 2B-Z PM-GLT-1
M 3	0,5	56	6	2,2	-	2,5				
4	0,7	63	7	2,8	2,1	3,3				
5	0,8	70	8	3,5	2,7	4,2				
6	1	80	10	4,5	3,4	5				
7	1	80	10	5,5	4,3	6				
8	1,25	90	14	6	4,9	6,8				
9	1,25	90	14	7	5,5	7,8				
10	1,5	100	16	7	5,5	8,5				
11	1,5	100	18	8	6,2	9,5				
12	1,75	110	18	9	7	10,2				
14	2	110	20	11	9	12	C1969401.0112	C1099401.0112	C0208F01.0112	C020A601.0112
16	2	110	22	12	9	14	C1969401.0114	C1099401.0114	C0208F01.0114	C020A601.0114
18	2,5	125	25	14	11	15,5	C1969401.0116	C1099401.0116	C0208F01.0116	C020A601.0116
20	2,5	140	25	16	12	17,5	C1969401.0118	C1099401.0118	C0208F01.0118	
22	2,5	140	27	18	14,5	19,5	C1969401.0120	C1099401.0120	C0208F01.0120	C020A601.0120
24	3	160	30	18	14,5	21			C0208F01.0122	
27	3	160	30	20	16	24			C0208F01.0124	C020A601.0124
30	3,5	180	35	22	18	26,5				
33	3,5	180	35	25	20	29,5			C0208F01.0130	C020A601.0130
36	4	200	40	28	22	32				
39	4	200	40	32	24	35				
42	4,5	200	45	32	24	37,5				
45	4,5	220	45	36	29	40,5				
48	5	250	50	36	29	43				
52	5	250	50	40	32	47				

DIN 371	108	108	108	108
DIN 352				

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Z
シングロ加工

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

6HX TIN-70 HSSE 粉末	6HX GLT-1 HSSE 粉末	6GX TIN-70 HSSE 粉末	6GX GLT-1 HSSE 粉末	6GX TIN-70 HSSE 粉末	6GX GLT-1 HSSE 粉末	6HX TIN HSSE	6HX TIN HSSE
B / 4-5 E / O	B / 4-5 E / O	B / 4-5 E / O / P	B / 4-5 E / O / P	B / 4-5 E / O	B / 4-5 E / O	R15 C / 2-3 E / O / P	R15 C / 2-3 E / O

max. 3 x d₁



max. 2 x d₁



P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3	P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3	P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3	P 3.1-5.1 N 2.4-2.5	P 3.1-5.1 N 2.4-2.5
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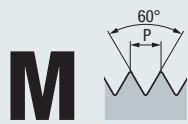
Rekord 2B-Z-IKZN PM-TIN-70	Rekord 2B-Z-IKZN PM-GLT-1	Rekord 2B-Z PM-TIN-70	Rekord 2B-Z PM-GLT-1	Rekord 2B-Z-IKZN PM-TIN-70	Rekord 2B-Z-IKZN PM-GLT-1	Rekord 2D-Z TIN	Rekord 2D-Z-IKZ TIN
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								M	3
									4
									5
									6
									7
									8
									9
									10
									11
									12
C1088F01.0112	C108A601.0112	C0208F21.0112	C020A621.0112	C1088F21.0112	C108A621.0112	C0453701.0112	C0963701.0112		14
C1088F01.0114	C108A601.0114	C0208F21.0114	C020A621.0114	C1088F21.0114	C108A621.0114	C0453701.0114	C0963701.0114		16
C1088F01.0116	C108A601.0116	C0208F21.0116	C020A621.0116	C1088F21.0116	C108A621.0116	C0453701.0116	C0963701.0116		18
C1088F01.0118		C0208F21.0118		C1088F21.0118			C0963701.0118		20
C1088F01.0120	C108A601.0120	C0208F21.0120	C020A621.0120	C1088F21.0120	C108A621.0120	C0453701.0120	C0963701.0120		22
C1088F01.0122		C0208F21.0122		C1088F21.0122			C0963701.0122		24
C1088F01.0124	C108A601.0124	C0208F21.0124	C020A621.0124	C1088F21.0124	C108A621.0124		C0963701.0124		27
							C0963701.0127		30
							C0963701.0130		33
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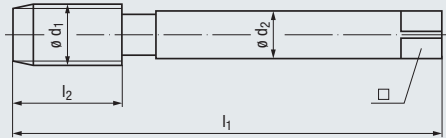


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

Z シンク口加工



6HX	6HX	6HX
TIN	TIN	TIN
HSSE	HSSE	HSSE
R15	R15	R15
E / 1,5-2	C / 2-3	E / 1,5-2
E / 0	E / 0	E / 0

ねじ深さと穴形状
Thread depth and hole type

max. 2 x d₁



アプリケーション – 被削材
Applications – material 78

P 3.1-5.1	P 3.1-5.1	P 3.1-5.1
N 2.4-2.5	N 2.4-2.5	N 2.4-2.5

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Rekord 2D-Z/E- IKZ TIN	Rekord 2D-Z-BF IKZ-TIN	Rekord 2D-Z/E-BF IKZ-TIN
M	3	0,5	56	6	2,2	–	2,5			
	4	0,7	63	7	2,8	2,1	3,3			
	5	0,8	70	8	3,5	2,7	4,2			
	6	1	80	10	4,5	3,4	5			
	7	1	80	10	5,5	4,3	6			
	8	1,25	90	14	6	4,9	6,8			
	9	1,25	90	14	7	5,5	7,8			
	10	1,5	100	16	7	5,5	8,5			
	11	1,5	100	18	8	6,2	9,5			
	12	1,75	110	18	9	7	10,2	C0983701.0112	C4253701.0112	C4053701.0112
	14	2	110	20	11	9	12		C4253701.0114	
	16	2	110	22	12	9	14	C0983701.0116	C4253701.0116	C4053701.0116
	18	2,5	125	25	14	11	15,5		C4253701.0118	
	20	2,5	140	25	16	12	17,5	C0983701.0120	C4253701.0120	C4053701.0120
	22	2,5	140	27	18	14,5	19,5		C4253701.0122	
	24	3	160	30	18	14,5	21		C4253701.0124	
	27	3	160	30	20	16	24		C4253701.0127	
	30	3,5	180	35	22	18	26,5		C4253701.0130	
	33	3,5	180	35	25	20	29,5			
	36	4	200	40	28	22	32			
	39	4	200	40	32	24	35			
	42	4,5	200	45	32	24	37,5			
	45	4,5	220	45	36	29	40,5			
	48	5	250	50	36	29	43			
	52	5	250	50	40	32	47			

DIN 371

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DIN 352

Z
シングロ加工

new	new	new	new	new	new	new	new
6HX GLT-1 HSSE 粉末 R45 C / 2-3 E / O / P	6HX GLT-1 HSSE 粉末 R45 C / 2-3 E / O	6HX GLT-1 HSSE 粉末 R45 E / 1,5-2 E / O / P	6HX GLT-1 HSSE 粉末 R45 E / 1,5-2 E / O	6GX GLT-1 HSSE 粉末 R45 C / 2-3 E / O / P	6GX GLT-1 HSSE 粉末 R45 C / 2-3 E / O	6GX GLT-1 HSSE 粉末 R45 E / 1,5-2 E / O / P	6GX GLT-1 HSSE 粉末 R45 E / 1,5-2 E / O

max. 3 x d₁



P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	
M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	
K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	
N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	
N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	
S 1.1	S 1.1	S 1.1	S 1.1	S 1.1	S 1.1	S 1.1	S 1.1	
Enorm 2-Z PM-GLT-1	Enorm 2-Z-IKZ PM-GLT-1	Enorm 2-Z/E PM-GLT-1	Enorm 2-Z/E-IKZ PM-GLT-1	Enorm 2-Z PM-GLT-1	Enorm 2-Z-IKZ PM-GLT-1	Enorm 2-Z/E PM-GLT-1	Enorm 2-Z/E-IKZ PM-GLT-1	
								M 3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								14
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								39
								42
								45
								48
								52

- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

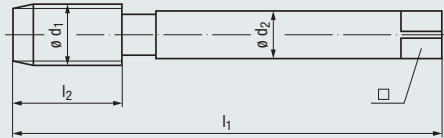


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material ▶▶ 78

Z シングロ加工



ISO 2/6H	ISO 2/6H	ISO 2/6H	ISO 2/6H
HSSE	TIN	GLT-1	HSSE
R45	HSSE	HSSE	HSSE
C / 2-3	R45	R45	R45
E / O / P	C / 2-3	C / 2-3	C / 2-3
	E / O / P	E / O / P	E / O

max. 3 x d₁



P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1
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M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Enorm 2-Z	Enorm 2-Z TIN	Enorm 2-Z GLT-1	Enorm 2-Z-1KZ
4	0,7	63	7	2,8	2,1	3,3	C0503500.0040				
5	0,8	70	8	3,5	2,7	4,2	C0503500.0050				
6	1	80	10	4,5	3,4	5	C0503500.0060				
7	1	80	10	5,5	4,3	6	C0503500.0070				
8	1,25	90	14	6	4,9	6,8	C0503500.0080				
9	1,25	90	14	7	5,5	7,8	C0503500.0090				
10	1,5	100	16	7	5,5	8,5	C0503500.0100				
11	1,5	100	18	8	6,2	9,5	C0503500.0111				
12	1,75	110	18	9	7	10,2	C0503500.0112	C0503700.0112	C050C400.0112	C0993500.0112	
14	2	110	20	11	9	12	C0503500.0114	C0503700.0114	C050C400.0114		
16	2	110	22	12	9	14	C0503500.0116	C0503700.0116	C050C400.0116	C0993500.0116	
18	2,5	125	25	14	11	15,5	C0503500.0118	C0503700.0118	C050C400.0118		
20	2,5	140	25	16	12	17,5	C0503500.0120	C0503700.0120	C050C400.0120	C0993500.0120	
22	2,5	140	27	18	14,5	19,5	C0503500.0122	C0503700.0122	C050C400.0122		
24	3	160	30	18	14,5	21	C0503500.0124	C0503700.0124	C050C400.0124		
27	3	160	30	20	16	24	C0503500.0127		C050C400.0127		
30	3,5	180	35	22	18	26,5	C0503500.0130				
33	3,5	180	35	25	20	29,5	C0503500.0133				
36	4	200	40	28	22	32	C0503500.0136				
39	4	200	40	32	24	35	C0503500.0139				
42	4,5	200	45	32	24	37,5	C0503500.0142				
45	4,5	220	45	36	29	40,5	C0503500.0145				
48	5	250	50	36	29	43					
52	5	250	50	40	32	47					

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DIN 352

Z
シングロ加工

ISO 2/6H GLT-1 HSSE R45 C / 2-3 E / O	ISO 2/6H HSSE R45 E / 1,5-2 E / O / P	ISO 2/6H TIN HSSE R45 E / 1,5-2 E / O / P	ISO 2/6H GLT-1 HSSE R45 E / 1,5-2 E / O / P	ISO 2/6H TIN HSSE R45 E / 1,5-2 E / O	ISO 2/6H GLT-1 HSSE R45 E / 1,5-2 E / O	ISO 1/4H HSSE R45 C / 2-3 E / O / P	ISO 1/4H GLT-1 HSSE R45 C / 2-3 E / O / P

max. 3 x d₁



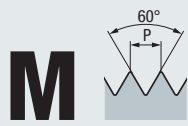
Material	Material	Material	Material	Material	Material	Material	Material
P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1
Enorm 2-Z- IKZ GLT-1	Enorm 2-Z/ E	Enorm 2-Z/ E TIN	Enorm 2-Z/ E GLT-1	Enorm 2-Z/ E-IKZ TIN	Enorm 2-Z/ E-IKZ GLT-1	Enorm 2-Z	Enorm 2-Z GLT-1
C099C400.0112	C0513500.0112 C0513500.0114	C0513700.0112 C0513700.0114	C051C400.0112	C0973700.0112 C0973700.0114	C097C400.0112 C097C400.0114	C0503510.0112 C0503510.0114	C050C410.0112 C050C410.0114
C099C400.0116	C0513500.0116 C0513500.0118	C0513700.0116 C0513700.0118	C051C400.0116	C0973700.0116	C097C400.0116	C0503510.0116 C0503510.0118	C050C410.0116 C050C410.0118
C099C400.0120	C0513500.0120 C0513500.0122 C0513500.0124	C0513700.0120 C0513700.0122 C0513700.0124	C051C400.0120	C0973700.0120	C097C400.0120	C0503510.0120 C0503510.0122 C0503510.0124	C050C410.0120 C050C410.0122 C050C410.0124
	C0513500.0127 C0513500.0130 C0513500.0133 C0513500.0136 C0513500.0139 C0513500.0142 C0513500.0148						

M	3
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	52

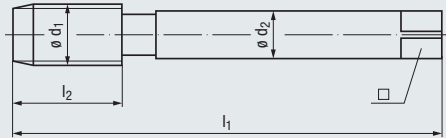
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13



DIN 376

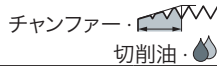
Z シングロ加工



ISO 3/6G	ISO 3/6G	ISO 3/6G	ISO 3/6G
HSSE	GLT-1	HSSE	TIN
R45	HSSE	R45	HSSE
C / 2-3	R45	C / 2-3	R45
E / 0 / P	C / 2-3	E / 1,5-2	E / 1,5-2
	E / 0 / P	E / 0 / P	E / 0 / P

技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material



ねじ深さと穴形状
Thread depth and hole type

max. 3 x d₁



アプリケーション – 被削材
Applications – material ▶▶ 78

P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1
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M	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□	Image	Enorm 2-Z	Enorm 2-Z GLT-1	Enorm 2-Z/E	Enorm 2-Z/E TIN
4	0,7	63	7	2,8	2,1	3,3					
5	0,8	70	8	3,5	2,7	4,2					
6	1	80	10	4,5	3,4	5					
7	1	80	10	5,5	4,3	6					
8	1,25	90	14	6	4,9	6,8					
9	1,25	90	14	7	5,5	7,8					
10	1,5	100	16	7	5,5	8,5					
11	1,5	100	18	8	6,2	9,5					
12	1,75	110	18	9	7	10,2	C0503520.0112	C050C420.0112	C0513520.0112	C0513720.0112	
14	2	110	20	11	9	12	C0503520.0114	C050C420.0114	C0513520.0114	C0513720.0114	
16	2	110	22	12	9	14	C0503520.0116	C050C420.0116	C0513520.0116	C0513720.0116	
18	2,5	125	25	14	11	15,5	C0503520.0118	C050C420.0118	C0513520.0118	C0513720.0118	
20	2,5	140	25	16	12	17,5	C0503520.0120	C050C420.0120	C0513520.0120	C0513720.0120	
22	2,5	140	27	18	14,5	19,5	C0503520.0122	C050C420.0122			
24	3	160	30	18	14,5	21	C0503520.0124	C050C420.0124			
27	3	160	30	20	16	24					
30	3,5	180	35	22	18	26,5					
33	3,5	180	35	25	20	29,5					
36	4	200	40	28	22	32					
39	4	200	40	32	24	35					
42	4,5	200	45	32	24	37,5					
45	4,5	220	45	36	29	40,5					
48	5	250	50	36	29	43					
52	5	250	50	40	32	47					

DIN 371

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114

114

DIN 352

Z
シングロ加工

						
new	new	new	new	new	new	new
						
ISO 3/6G	7G	7G	6H +0,1 2)	6H +0,1 2)	ISO 2/6H	ISO 2/6H
GLT-1		GLT-1		GLT-1		GLT-1
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
R45	R45	R45	R45	R45	左ねじ, L45	左ねじ, L45
E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3	C / 2-3
E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	E / O / P

max. 3 x d₁



P 1.1-4.1	P 1.1-3.1	P 1.1-4.1	P 1.1-3.1	P 1.1-4.1	P 1.1-3.1	P 1.1-4.1
M 1.1-4.1		M 1.1-4.1		M 1.1-4.1		M 1.1-4.1
N 1.4, 2.1-2.2		N 1.4, 2.1-2.2		N 1.4, 2.1-2.2		N 1.4, 2.1-2.2
N 2.4-2.5		N 2.4-2.5		N 2.4-2.5		N 2.4-2.5
S 1.1		S 1.1		S 1.1		S 1.1

Enorm 2-Z/E GLT-1	Enorm 2-Z	Enorm 2-Z GLT-1	Enorm 2-Z	Enorm 2-Z GLT-1	Enorm 2-Z-LH	Enorm 2-Z-LH GLT-1
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							M	3
								4
								5
			C0503540.0060	C050C440.0060				6
								7
			C0503540.0080	C050C440.0080				8
								9
			C0503540.0100	C050C440.0100				10
								11
C051C420.0112	C0503530.0112	C050C430.0112	C0503540.0112	C050C440.0112	C0503550.0112	C050C450.0112		12
C051C420.0114	C0503530.0114	C050C430.0114			C0503550.0114	C050C450.0114		14
C051C420.0116	C0503530.0116	C050C430.0116	C0503540.0116	C050C440.0116	C0503550.0116	C050C450.0116		16
C051C420.0118	C0503530.0118	C050C430.0118			C0503550.0118	C050C450.0118		18
C051C420.0120	C0503530.0120	C050C430.0120	C0503540.0120	C050C440.0120	C0503550.0120	C050C450.0120		20
	C0503530.0122	C050C430.0122			C0503550.0122	C050C450.0122		22
	C0503530.0124	C050C430.0124	C0503540.0124	C050C440.0124	C0503550.0124	C050C450.0124		24
								27
								30
								33
								36
								39
								42
								45
								48
								52
📄 115	📄 115	📄 115	📄 115	📄 115	📄 115	📄 115		

2) オーバーサイズタップ使用時は下穴径を0,1 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.1 mm

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

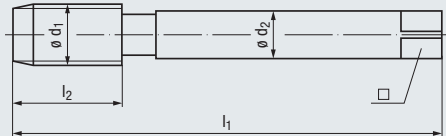


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



M
DIN 13

DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

Z
シングロ加工



6HX	6HX
HSSE	GLT-1
R50	HSSE
C / 2-3	C / 2-3
E / O / P	E / O / P

max. 3 x d₁



P 1.1-3.1	P 1.1-4.1
	M 1.1-4.1
	N 1.4, 2.1-2.2
	N 2.4-2.5
	S 1.1

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Enorm 2-Z50	Enorm 2-Z50 GLT-1
M	3	0,5	56	6	2,2	-	2,5		
	4	0,7	63	7	2,8	2,1	3,3		
	5	0,8	70	8	3,5	2,7	4,2		
	6	1	80	10	4,5	3,4	5		
	7	1	80	10	5,5	4,3	6		
	8	1,25	90	14	6	4,9	6,8		
	9	1,25	90	14	7	5,5	7,8		
	10	1,5	100	16	7	5,5	8,5		
	11	1,5	100	18	8	6,2	9,5		
	12	1,75	110	18	9	7	10,2	C0653501.0112	C065C401.0112
	14	2	110	20	11	9	12		
	16	2	110	22	12	9	14	C0653501.0116	C065C401.0116
	18	2,5	125	25	14	11	15,5		
	20	2,5	140	25	16	12	17,5	C0653501.0120	C065C401.0120
	22	2,5	140	27	18	14,5	19,5		
	24	3	160	30	18	14,5	21		
	27	3	160	30	20	16	24		
	30	3,5	180	35	22	18	26,5		
	33	3,5	180	35	25	20	29,5		
	36	4	200	40	28	22	32		
	39	4	200	40	32	24	35		
	42	4,5	200	45	32	24	37,5		
	45	4,5	220	45	36	29	40,5		
	48	5	250	50	36	29	43		
	52	5	250	50	40	32	47		

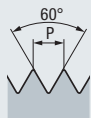
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116

116

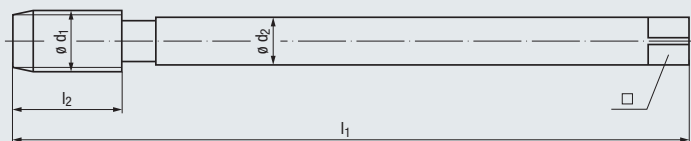
DIN 352

M



DIN 13

エクストラロングシャンク
With extra long shank



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

STEEL
鋼

new



ISO 2/6H

ISO 2/6H

ISO 2/6H

HSSE

HSSE

TIN

B / 4-5

E / 1,5-2

R15

E / 0

E / 0

C / 2-3

max. 3 x d₁



max. 2 x d₁



P 1.1-3.1
N 2.2

P 2.1-3.1

P 3.1-4.1

M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Rekord	Rekord	Rekord
								2B-STEEL-L LS	2D-STEEL/E LS	2DF-STEEL LS-TIN
	6	1	160	17	4,5	3,4	5	C2208900.0060	C2461000.0060	
	8	1,25	180	20	6	4,9	6,8	C2208900.0080	C2461000.0080	
	10	1,5	200	22	7	5,5	8,5	C2208900.0100	C2461000.0100	
	12	1,75	224	24	9	7	10,2	C2208900.0112	C2461000.0112	C2401400.0112
	14	2	224	26	11	9	12	C2208900.0114	C2461000.0114	
	16	2	224	27	12	9	14	C2208900.0116	C2461000.0116	C2401400.0116
	18	2,5	250	30	14	11	15,5	C2208900.0118	C2461000.0118	
	20	2,5	280	32	16	12	17,5	C2208900.0120	C2461000.0120	
								117	117	117

1) 軸芯オイルホール付き (IKZ) も製作可能です
Also available with internal coolant supply IKZ

2) 径方向オイルホール付き (IKZN) も製作可能です
Also available with internal coolant supply IKZN

Product
Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

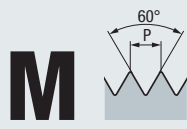
SELF-LOCK

Tr, Tr-F
Rd

Zubehör
Accessories

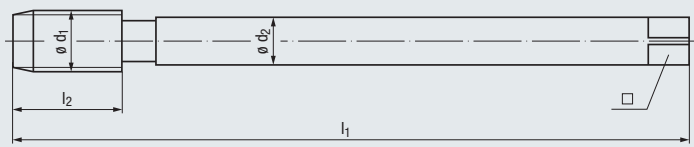


- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

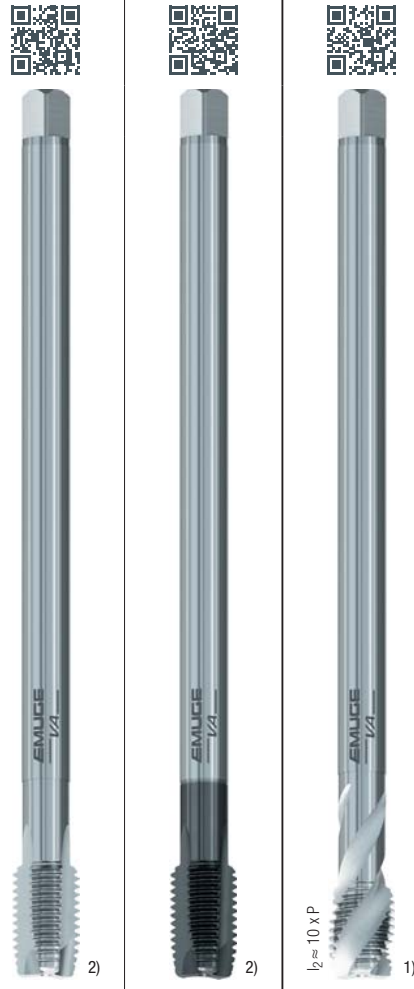


DIN 13

エクストラロングシャンク
With extra long shank



VA
ステンレス



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ISO 2/6H	ISO 2/6H	ISO 2/6H
NT	GLT-1	
HSSE	HSSE	HSSE
B / 4-5	B / 4-5	R35
E / O / P	E / O / P	C / 2-3
		E / O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション – 被削材
Applications – material

P 2.1-3.1	P 1.1-4.1	P 1.1-3.1
N 2.2, 2.5	M 1.1-4.1	
	N 2.2	





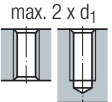
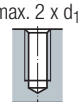





$\varnothing d_1$ mm	P mm	l_1	l_2	$\varnothing d_2$	□		Rekord 2B-VA LS-NT	Rekord 2B-VA LS-GLT-1	Enorm 2-VA LS
M 6	1	160	17	4,5	3,4	5	C2203000.0060	C220C300.0060	
8	1,25	180	20	6	4,9	6,8	C2203000.0080	C220C300.0080	
10	1,5	200	22	7	5,5	8,5	C2203000.0100	C220C300.0100	
12	1,75	224	24	9	7	10,2	C2203000.0112	C220C300.0112	C2503000.0112
14	2	224	26	11	9	12	C2203000.0114	C220C300.0114	C2503000.0114
16	2	224	27	12	9	14	C2203000.0116	C220C300.0116	C2503000.0116
18	2,5	250	30	14	11	15,5	C2203000.0118	C220C300.0118	C2503000.0118
20	2,5	280	32	16	12	17,5	C2203000.0120	C220C300.0120	C2503000.0120



118

1) 軸芯オイルホール付き (IKZ) も製作可能です
Also available with internal coolant supply IKZ

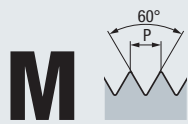
2) 径方向オイルホール付き (IKZN) も製作可能です
Also available with internal coolant supply IKZN

H 高強度鋼	Z シングロ加工							
								
1) 2)	$l_2 \approx 10 \times P$	new $l_2 \approx 10 \times P$	new $l_2 \approx 10 \times P$	1)	1)			
6HX NT HSSE	6HX TIN HSSE R15	ISO 2/6H HSSE R45	ISO 2/6H GLT-1 HSSE R45					
C / 2-3 E / O / P	C / 2-3 E / O	C / 2-3 E / O / P	C / 2-3 E / O / P					
max. 2 x d ₁ 	max. 2 x d ₁ 	max. 3 x d ₁ 						
K 1.1-4.2 N 4.1	P 3.1-5.1 N 2.4-2.5	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1					
Rekord 2A-H LS-NT	Rekord 2D-Z-BF- LS-TIN	Enorm 2-Z LS	Enorm 2-Z-LS GLT-1					
C2100501.0060 C2100501.0080 C2100501.0100 C2100501.0112 C2100501.0114 C2100501.0116 C2100501.0118 C2100501.0120	C4093701.0112 C4093701.0116	C2503500.0060 C2503500.0080 C2503500.0100 C2503500.0112 C2503500.0114 C2503500.0116 C2503500.0118 C2503500.0120	C250C400.0060 C250C400.0080 C250C400.0100 C250C400.0112 C250C400.0114 C250C400.0116 C250C400.0118 C250C400.0120					M 6 8 10 12 14 16 18 20
 119	 119	 119	 119					

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

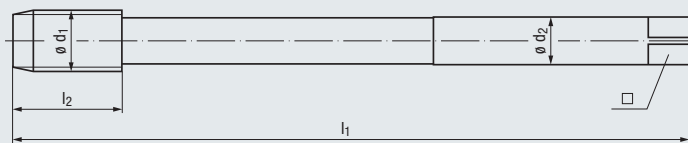


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

ねじ深さ 3 x d₁ までのロングフルート
With long flutes and long shank for thread depths up to max. 3 x d₁



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material

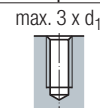
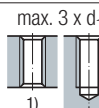
∅ d ₁ mm	P mm	l ₁	l ₂	∅ d ₂	□		Rekord 2A-Z-1KZ-LF3 TICN	Rekord 2D-Z-1KZ-LF3 TIN	Rekord 2D-Z-BF-1KZ-LF3 TIN
M 24	3	215	30	18	14,5	21	C0579401.0124	C4963701.0124	C4973701.0124
30	3,5	240	35	22	18	26,5	C0579401.0130	C4963701.0130	C4973701.0130
33	3,5	255	35	25	20	29,5	C0579401.0133	C4963701.0133	C4973701.0133
36	4	275	40	28	22	32	C0579401.0136	C4963701.0136	C4973701.0136
42	4,5	295	45	32	24	37,5	C0579401.0142	C4963701.0142	C4973701.0142

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Z
シングロ加工



6HX TICN HSSE	6HX TIN HSSE	6HX TIN HSSE
C / 2-3 E / 0	C / 2-3 E / 0	C / 2-3 E / 0



P 3.1-4.1 K 1.1-4.2	P 3.1-5.1 N 2.4-2.5	P 3.1-5.1 N 2.4-2.5
------------------------	------------------------	------------------------

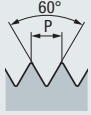


大径タップ加工には弊社ソフトシンクロまたはHFシリーズを推奨します。
620 - 621, 629 - 630 および 709 - 715 ページをご覧ください。

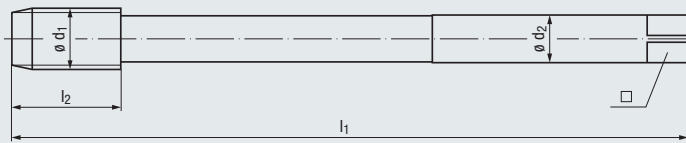
For the clamping of taps for the production of large threads, we recommend using our holders of the Softsynchro® and HF series. You will find these on pages 620 - 621, 629 - 630 and 709 - 715.

M

DIN 13



ねじ深さ 4 x d₁ までのロングフルート
With long flutes and long shank for thread depths up to max. 4 x d₁



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファー・
切削油・

ねじ深さと穴形状
Thread depth and hole type

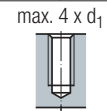
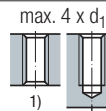
アプリケーション - 被削材
Applications - material 78

ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□	
M 20	2,5	190	25	16	12	17,5
22	2,5	230	27	18	14,5	19,5
24	3	240	30	18	14,5	21
27	3	250	30	20	16	24
30	3,5	270	35	22	18	26,5
33	3,5	290	35	25	20	29,5
36	4	310	40	28	22	32
42	4,5	340	45	32	24	37,5
45	4,5	360	45	36	29	40,5
48	5	380	50	36	29	43

Z
シンクロ加工



6HX TICN HSSE C / 2-3 E / O	6HX TIN HSSE R15 C / 2-3 E / O	6HX TIN HSSE R15 C / 2-3 E / O
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P 3.1-4.1 K 1.1-4.2	P 3.1-5.1 N 2.4-2.5	P 3.1-5.1 N 2.4-2.5
--------------------------------------	--------------------------------------	--------------------------------------

Rekord 2A-Z-1KZ-LF4 TICN	Rekord 2D-Z-1KZ-LF4 TIN	Rekord 2D-Z-BF-1KZ-LF4 TIN
C0539401.0120	C4283701.0120	C4063701.0120
C0539401.0122	C4283701.0122	C4063701.0122
C0539401.0124	C4283701.0124	C4063701.0124
C0539401.0127	C4283701.0127	C4063701.0127
C0539401.0130	C4283701.0130	C4063701.0130
C0539401.0133	C4283701.0133	C4063701.0133
C0539401.0136	C4283701.0136	C4063701.0136
C0539401.0142	C4283701.0142	C4063701.0142
C0539401.0145	C4283701.0145	C4063701.0145
C0539401.0148		

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Product Finder

V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



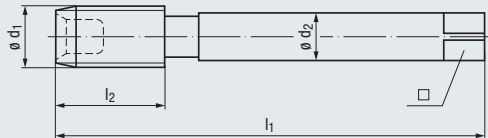
DIN 13

DIN 376

VA
ステンレス



切りくずを収納可能なホロー形状
With internal chip collector



技術情報
Technical information

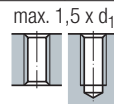
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

6HX
NE2
HSSE
C / 2-3
P / O 1)

6HX
TIN
HSSE
C / 2-3
P / O 1)

ねじ深さと穴形状
Thread depth and hole type



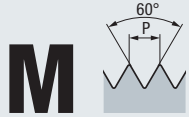
アプリケーション - 被削材
Applications - material ▶▶ 78

P 1.1-3.1
K 1.1-4.2

P 1.1-3.1
K 1.1-4.2

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Robust 2X-VA NE2	Robust 2X-VA TIN
M	24	3	160	34	18	14,5	21	C0803001.0124	C0803101.0124
	27	3	160	36	20	16	24	C0803001.0127	C0803101.0127
	30	3,5	180	40	22	18	26,5	C0803001.0130	C0803101.0130
	33	3,5	180	40	25	20	29,5	C0803001.0133	C0803101.0133
	36	4	200	50	28	22	32	C0803001.0136	C0803101.0136
	39	4	200	50	32	24	35	C0803001.0139	C0803101.0139
	42	4,5	200	56	32	24	37,5	C0803001.0142	C0803101.0142
	45	4,5	220	58	36	29	40,5	C0803001.0145	C0803101.0145
	48	5	250	65	36	29	43	C0803001.0148	C0803101.0148
	52	5	250	65	40	32	47	C0803001.0152	C0803101.0152
	56	5,5	250	70	40	32	50,5	C0803001.0156	C0803101.0156
	60	5,5	280	70	45	35	54,5	C0803001.0160	C0803101.0160
	64	6	315	75	50	39	58	C0803001.0164	C0803101.0164

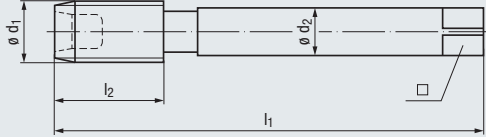
1) 切削油はペーストのご使用を推奨します。タップと下穴に十分な量を塗布してください。オイルは立型の機械で止まり穴の場合に限ってご使用頂けますが、その際は下穴にオイルを満たした状態で加工を行ってください。
If possible, use paste lubrication, coating both the tool and the walls of the drilled hole.
Lubrication with oil is possible only in the vertical machining of blind holes, if the hole is entirely filled with oil.



DIN 13

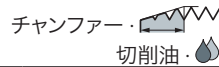
DIN 376

切りくずを収納可能なホロー形状
With internal chip collector

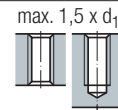


技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material



ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material



ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Robust 2ST-VA NE2	Robust 2ST-VA TIN
M 24	3	160	34	18	14,5	21	C2023001.0124	C2023101.0124
27	3	160	36	20	16	24	C2023001.0127	C2023101.0127
30	3,5	180	40	22	18	26,5	C2023001.0130	C2023101.0130
33	3,5	180	40	25	20	29,5	C2023001.0133	C2023101.0133
36	4	200	50	28	22	32	C2023001.0136	C2023101.0136
39	4	200	50	32	24	35	C2023001.0139	C2023101.0139
42	4,5	200	56	32	24	37,5	C2023001.0142	C2023101.0142
45	4,5	220	58	36	29	40,5	C2023001.0145	C2023101.0145
48	5	250	65	36	29	43	C2023001.0148	C2023101.0148
52	5	250	65	40	32	47	C2023001.0152	C2023101.0152
56	5,5	250	70	40	32	50,5	C2023001.0156	C2023101.0156
60	5,5	280	70	45	35	54,5	C2023001.0160	C2023101.0160
64	6	315	75	50	39	58	C2023001.0164	C2023101.0164

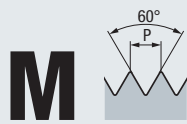
1) 切削油はペーストのご使用を推奨します。タップと下穴に十分な量を塗布してください。オイルは立型の機械で止まり穴の場合に限ってご使用頂けますが、その際は下穴にオイルを満たした状態で加工を行ってください。
If possible, use paste lubrication, coating both the tool and the walls of the drilled hole.
Lubrication with oil is possible only in the vertical machining of blind holes, if the hole is entirely filled with oil.

Product Finder

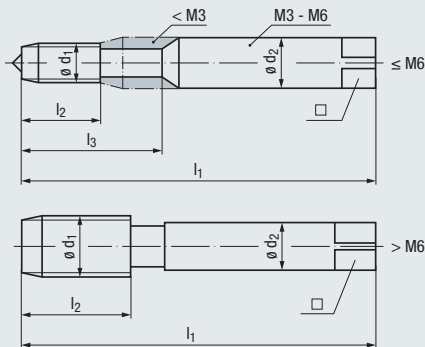
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13



DIN 352

STEEL 鋼



new



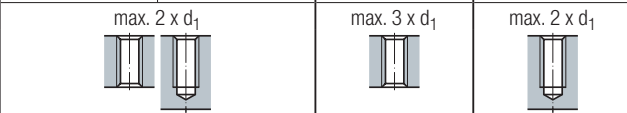
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information

チャンファー · 切削油 ·

6HX *)	6HX	ISO 2/6H	ISO 2/6H
HSSE	HSSE	HSSE	HSSE
C / 2-3	左ねじ C / 2-3	B / 4-5	R15 C / 2-3
E / 0	E / 0	E / 0	E / 0

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

▶▶ 78

K 1.1-4.2 N 2.3	K 1.1-4.2 N 2.3	P 1.1-3.1 N 2.2	P 2.1-3.1
----------------------------------	----------------------------------	----------------------------------	------------------

M	θd_1 mm	P mm	l_1	l_2	l_3	θd_2	□		Rekord	Rekord	Rekord	Rekord
									A-STEEL	A-STEEL-LH	B-STEEL-L	D-STEEL
	1	0,25	32	5	—	2,5	2,1	0,75	A0101001.0010			
	1,1	0,25	32	5	—	2,5	2,1	0,85				
	1,2	0,25	32	5	—	2,5	2,1	0,95	A0101001.0012			
	1,4	0,3	32	7	—	2,5	2,1	1,1	A0101001.0014			
	1,6	0,35	32	8	—	2,5	2,1	1,25	A0101001.0016			
	1,8	0,35	32	8	—	2,5	2,1	1,45				
	2	0,4	36	8	—	2,8	2,1	1,6	A0101001.0020			
	2,2	0,45	36	9	—	2,8	2,1	1,75	A0101001.0022			
	2,3	0,4	36	9	—	2,8	2,1	1,9	A0101001.0023			
	2,5	0,45	40	9	—	2,8	2,1	2,05	A0101001.0025			
	2,6	0,45	40	9	—	2,8	2,1	2,15	A0101001.0026			
	3	0,5	40	10	18	3,5	2,7	2,5	A0101001.0030	A0101051.0030	A0208900.0030	A0451000.0030
	3,5	0,6	45	11	20	4	3	2,9	A0101001.0035		A0208900.0035	
	4	0,7	45	12	22	4,5	3,4	3,3	A0101001.0040	A0101051.0040	A0208900.0040	A0451000.0040
	4,5	0,75	50	13	24	6	4,9	3,7				
	5	0,8	50	14	25	6	4,9	4,2	A0101001.0050	A0101051.0050	A0208900.0050	A0451000.0050
	6	1	56	16	28	6	4,9	5	A0101001.0060	A0101051.0060	A0208900.0060	A0451000.0060
	7	1	56	18	—	6	4,9	6				
	8	1,25	63	20	—	6	4,9	6,8	A0101001.0080	A0101051.0080	A0208900.0080	A0451000.0080
	9	1,25	63	20	—	7	5,5	7,8				
	10	1,5	70	22	—	7	5,5	8,5	A0101001.0100	A0101051.0100	A0208900.0100	A0451000.0100
	11	1,5	70	22	—	8	6,2	9,5				
	12	1,75	75	24	—	9	7	10,2	A0101001.0112	A0101051.0112	A0208900.0112	A0451000.0112
	14	2	80	26	—	11	9	12	A0101001.0114	A0101051.0114		
	16	2	80	27	—	12	9	14	A0101001.0116	A0101051.0116		
	18	2,5	95	30	—	14	11	15,5	A0101001.0118	A0101051.0118		
	20	2,5	95	32	—	16	12	17,5	A0101001.0120	A0101051.0120		
	22	2,5	100	32	—	18	14,5	19,5	A0101001.0122			
	24	3	110	34	—	18	14,5	21	A0101001.0124	A0101051.0124		
	27	3	110	36	—	20	16	24	A0101001.0127			
	30	3,5	125	40	—	22	18	26,5	A0101001.0130			

DIN 371 92

DIN 376 120

92

120

*) $\leq M1,4$ Tol. 4H(X)/5H(X)

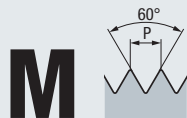
VA ステンレス		MS 黄銅		Z シングロ加工			
ISO 2/6H NT HSSE B / 4-5 E / O / P		6HX 6GX HSSE HSSE C / 2-3 C / 2-3 E E		ISO 2/6H HSSE R45 E / 1,5-2 E / O / P			
max. 3 x d ₁ 		max. 2 x d ₁ 		max. 3 x d ₁ 			
P 2.1-3.1 N 2.2, 2.5		N 2.3 N 2.3		P 1.1-3.1			
Rekord B-VA NT		Rekord A-MS Rekord A-MS		Enorm Z/E			
						M 1	
						1,1	
						1,2	
						1,4	
						1,6	
						1,8	
						2	
		A0102501.0020				2,2	
		A0102501.0022				2,3	
		A0102501.0023				2,5	
		A0102501.0025				2,6	
		A0102501.0026				3	
A0203000.0030		A0102501.0030		A0102521.0030		3,5	
		A0102501.0035		A0102521.0035		4	
A0203000.0040		A0102501.0040		A0102521.0040		4,5	
				A0513500.0040		5	
A0203000.0050		A0102501.0050		A0102521.0050		6	
A0203000.0060		A0102501.0060		A0102521.0060		7	
				A0513500.0060		8	
A0203000.0080		A0102501.0080		A0102521.0080		9	
				A0513500.0080		10	
A0203000.0100		A0102501.0100		A0102521.0100		11	
				A0513500.0100		12	
A0203000.0112						14	
				A0513500.0112		16	
				A0513500.0116		18	
				A0513500.0120		20	
						22	
						24	
						27	
						30	

Product Finder

- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

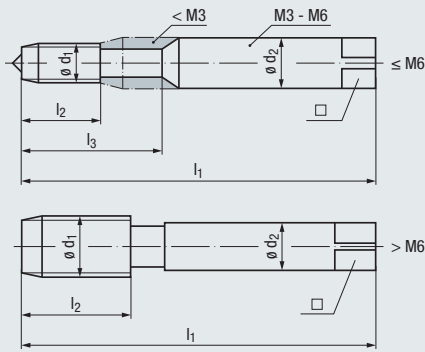


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 352



公差・Tolerance
コーティング・Coating
母材・Cutting material

技術情報
Technical information

チャンファー・
切削油・

HSSE

HSSE

6HX *)

6HX *)

A / 5-6

D / 3-4

C / 2-3

C / 2-3

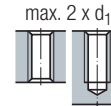
O / P

O / P

O / P

O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material



P

1.1-3.1

P

1.1-3.1

P

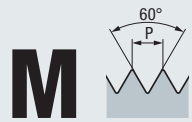
1.1-3.1

P

1.1-3.1

M	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□		HGB-Set	HGB-Set	HGB-Set	HGB-Set-3S
									V-Nr.1	M-Nr.2	F	(Nr.1, Nr.2, F)
	1	0,25	32	5	-	2,5	2,1	0,75	H0111019.0010	H0111029.0010	H0111001.0010	H0101001.0010
	1,1	0,25	32	5	-	2,5	2,1	0,85				
	1,2	0,25	32	5	-	2,5	2,1	0,95				
	1,4	0,3	32	7	-	2,5	2,1	1,1	H0111019.0014	H0111029.0014	H0111001.0014	H0101001.0014
	1,6	0,35	32	8	-	2,5	2,1	1,25	H0111019.0016	H0111029.0016	H0111001.0016	H0101001.0016
	1,7	0,35	32	8	-	2,5	2,1	1,35				
	1,8	0,35	32	8	-	2,5	2,1	1,45				
	2	0,4	36	8	-	2,8	2,1	1,6	H0111019.0020	H0111029.0020	H0111001.0020	H0101001.0020
	2,2	0,45	36	9	-	2,8	2,1	1,75				
	2,3	0,4	36	9	-	2,8	2,1	1,9				
	2,5	0,45	40	9	-	2,8	2,1	2,05	H0111019.0025	H0111029.0025	H0111001.0025	H0101001.0025
	2,6	0,45	40	9	-	2,8	2,1	2,15				
	3	0,5	40	10	18	3,5	2,7	2,5	H0111019.0030	H0111029.0030	H0111001.0030	H0101001.0030
	3,5	0,6	45	11	20	4	3	2,9	H0111019.0035	H0111029.0035	H0111001.0035	H0101001.0035
	4	0,7	45	12	22	4,5	3,4	3,3	H0111019.0040	H0111029.0040	H0111001.0040	H0101001.0040
	4,5	0,75	50	13	24	6	4,9	3,7				
	5	0,8	50	14	25	6	4,9	4,2	H0111019.0050	H0111029.0050	H0111001.0050	H0101001.0050
	6	1	56	16	28	6	4,9	5	H0111019.0060	H0111029.0060	H0111001.0060	H0101001.0060
	7	1	56	18	-	6	4,9	6	H0111019.0070	H0111029.0070	H0111001.0070	H0101001.0070
	8	1,25	63	20	-	6	4,9	6,8	H0111019.0080	H0111029.0080	H0111001.0080	H0101001.0080
	9	1,25	63	20	-	7	5,5	7,8				
	10	1,5	70	22	-	7	5,5	8,5	H0111019.0100	H0111029.0100	H0111001.0100	H0101001.0100
	11	1,5	70	22	-	8	6,2	9,5	H0111019.0111	H0111029.0111	H0111001.0111	H0101001.0111
	12	1,75	75	24	-	9	7	10,2	H0111019.0112	H0111029.0112	H0111001.0112	H0101001.0112
	14	2	80	26	-	11	9	12	H0111019.0114	H0111029.0114	H0111001.0114	H0101001.0114
	16	2	80	27	-	12	9	14	H0111019.0116	H0111029.0116	H0111001.0116	H0101001.0116
	18	2,5	95	30	-	14	11	15,5				
	20	2,5	95	32	-	16	12	17,5	H0111019.0120	H0111029.0120	H0111001.0120	H0101001.0120
	22	2,5	100	32	-	18	14,5	19,5				
	24	3	110	34	-	18	14,5	21	H0111019.0124	H0111029.0124	H0111001.0124	H0101001.0124
	27	3	110	36	-	20	16	24	H0111019.0127	H0111029.0127	H0111001.0127	H0101001.0127
	30	3,5	125	40	-	22	18	26,5	H0111019.0130	H0111029.0130	H0111001.0130	H0101001.0130
	33	3,5	125	40	-	25	20	29,5	H0111019.0133	H0111029.0133	H0111001.0133	H0101001.0133
	36	4	150	50	-	28	22	32	H0111019.0136	H0111029.0136	H0111001.0136	H0101001.0136

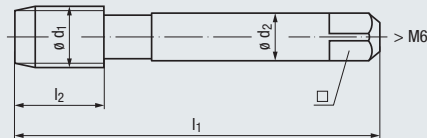
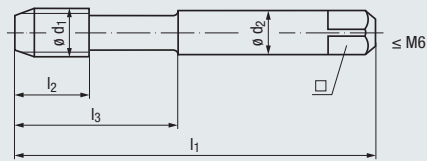
*) ≤ M1,4 Tol. 4HX/5HX



M

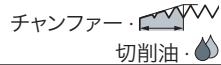
DIN 13

≈ DIN 352



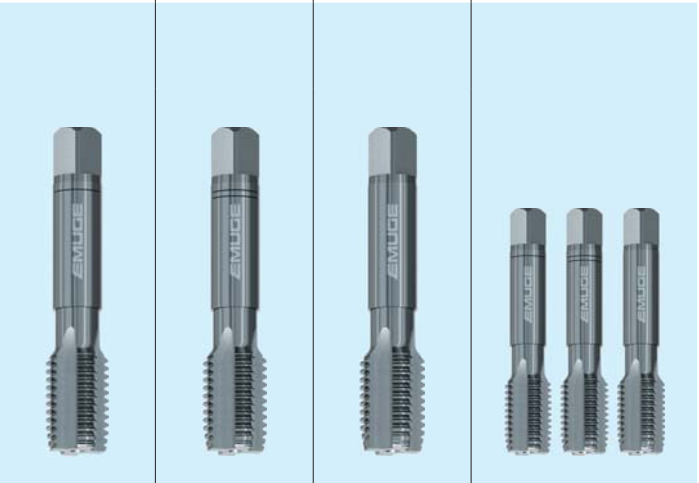
技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

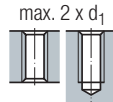


ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material



超硬	超硬	超硬	超硬
C / ≈3	C / ≈3	C / ≈3	C / ≈3
O / P	O / P	O / P	O / P



P 5.1	P 5.1	P 5.1	P 5.1
N 2.8, 5.2	N 2.8, 5.2	N 2.8, 5.2	N 2.8, 5.2
H 1.1-1.3	H 1.1-1.3	H 1.1-1.3	H 1.1-1.3

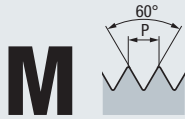
ø d ₁ mm	P mm	l ₁	l ₂	max. l ₃	ø d ₂	□		VHM/KHM-Set V-Nr.1	VHM/KHM-Set M-Nr.2	VHM/KHM-Set F	VHM/KHM-Set-3S (Nr.1, Nr.2, F)
M 3	0,5	40	6	18	3,5	2,7	2,5	H0310919.0030	H0310929.0030	H0310901.0030	H0300901.0030
4	0,7	45	7	19	4,5	3,4	3,3	H0310919.0040	H0310929.0040	H0310901.0040	H0300901.0040
5	0,8	50	9	25	6	4,9	4,2	H0310919.0050	H0310929.0050	H0310901.0050	H0300901.0050
6	1	56	10	26	6	4,9	5	H0310919.0060	H0310929.0060	H0310901.0060	H0300901.0060
8	1,25	63	14	-	6	4,9	6,8	H0310919.0080	H0310929.0080	H0310901.0080	H0300901.0080
10	1,5	70	16	-	7	5,5	8,5	H0310919.0100	H0310929.0100	H0310901.0100	H0300901.0100
12	1,75	75	18	-	9	7	10,2	H0310919.0112	H0310929.0112	H0310901.0112	H0300901.0112
14	2	80	20	-	11	9	12	H0310919.0114	H0310929.0114	H0310901.0114	H0300901.0114
16	2	80	22	-	12	9	14	H0310919.0116	H0310929.0116	H0310901.0116	H0300901.0116
20	2,5	95	25	-	16	12	17,5	H0310919.0120	H0310929.0120	H0310901.0120	H0300901.0120



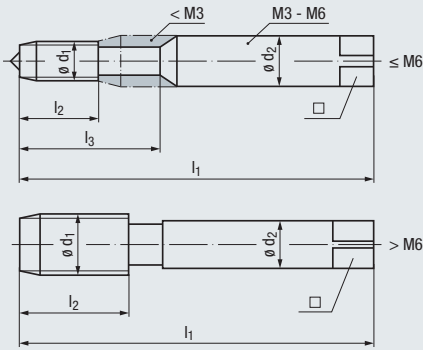
切削油は 300 - 301ページをご覧ください。

Coolant-lubricants, see page 300 - 301

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

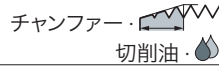


DIN 352



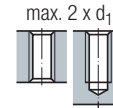
技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material



HSSE	HSSE	HSSE	6HX HSSE
C / 2-3	C / 2-3	C / 2-3	C / 2-3
O / P	O / P	O / P	O / P

ねじ深さと穴形状
Thread depth and hole type











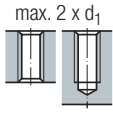
アプリケーション – 被削材
Applications – material



P 1.1-5.1	P 1.1-5.1	P 1.1-5.1	P 1.1-5.1
M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1
K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
N 1.1-2.6	N 1.1-2.6	N 1.1-2.6	N 1.1-2.6
S 2.1-2.2, 2.4	S 2.1-2.2, 2.4	S 2.1-2.2, 2.4	S 2.1-2.2, 2.4

θd_1 mm	P mm	l_1	l_2	l_3	θd_2	□		WM-Set	WM-Set	WM-Set	WM-Set
								V-Nr.1Z	V-Nr.1	M-Nr.2	F
M 2	0,4	36	8	—	2,8	2,1	1,6	H0413019.0020	H0423019.0020	H0423029.0020	H0423001.0020
	0,45	36	9	—	2,8	2,1	1,75				
	0,4	36	9	—	2,8	2,1	1,9				
2,3	0,45	40	9	—	2,8	2,1	2,05	H0413019.0025	H0423019.0025	H0423029.0025	H0423001.0025
	0,45	40	9	—	2,8	2,1	2,15				
3	0,5	40	10	18	3,5	2,7	2,5	H0413019.0030	H0423019.0030	H0423029.0030	H0423001.0030
3,5	0,6	45	11	20	4	3	2,9	H0413019.0035	H0423019.0035	H0423029.0035	H0423001.0035
4	0,7	45	12	22	4,5	3,4	3,3	H0413019.0040	H0423019.0040	H0423029.0040	H0423001.0040
5	0,8	50	14	25	6	4,9	4,2	H0413019.0050	H0423019.0050	H0423029.0050	H0423001.0050
6	1	56	16	28	6	4,9	5	H0413019.0060	H0423019.0060	H0423029.0060	H0423001.0060
8	1,25	63	20	—	6	4,9	6,8	H0413019.0080	H0423019.0080	H0423029.0080	H0423001.0080
10	1,5	70	22	—	7	5,5	8,5	H0413019.0100	H0423019.0100	H0423029.0100	H0423001.0100
12	1,75	75	24	—	9	7	10,2	H0413019.0112	H0423019.0112	H0423029.0112	H0423001.0112
14	2	80	26	—	11	9	12	H0413019.0114	H0423019.0114	H0423029.0114	H0423001.0114
16	2	80	27	—	12	9	14	H0413019.0116	H0423019.0116	H0423029.0116	H0423001.0116
18	2,5	95	30	—	14	11	15,5				
20	2,5	95	32	—	16	12	17,5	H0413019.0120	H0423019.0120	H0423029.0120	H0423001.0120
22	2,5	100	32	—	18	14,5	19,5				
24	3	110	34	—	18	14,5	21	H0413019.0124	H0423019.0124	H0423029.0124	H0423001.0124
27	3	110	36	—	20	16	24				
30	3,5	125	40	—	22	18	26,5				

1) パイロット付き No.1Zは、特にマニュアルで加工を行う場合に精度を確保するためのオプションとなります。機械での加工の場合は必ずしも必要ではありません。No.1ZとNo.1は同径です。
The taper tap No. 1Z with cylindrical pilot is an additional aid for true alignment especially when tapping by hand. It can be deleted when tapping by machine. The profile graduation of No.1Z, and No.1 is the same.

  2)	 	  2)	 
6HX	6HX	6HX	6HX
HSSE	HSSE	HSSE	HSSE
C / 2-3	C / 2-3	C / 2-3	C / 2-3
O / P	O / P	O / P	O / P
			
P 1.1-5.1 M 1.1-4.1 K 1.1-4.2 N 1.1-2.6 S 2.1-2.2, 2.4	P 1.1-5.1 M 1.1-4.1 K 1.1-4.2 N 1.1-2.6 S 2.1-2.2, 2.4	P 1.1-5.1 M 1.1-4.1 K 1.1-4.2 N 1.1-2.6 S 2.1-2.2, 2.4	P 1.1-5.1 M 1.1-4.1 K 1.1-4.2 N 1.1-2.6 S 2.1-2.2, 2.4
WM-Set-3S (Nr.1Z, Nr.1, F)	WM-Set-2S (Nr.1, F)	WM-Set-4S (Nr.1Z, Nr.1, Nr.2, F)	WM-Set-3S (Nr.1, Nr.2, F)
H0453001.0020	H0483001.0020	H0403001.0020	H0433001.0020
H0453001.0025	H0483001.0025	H0403001.0025	H0433001.0025
H0453001.0030	H0483001.0030	H0403001.0030	H0433001.0030
H0453001.0035	H0483001.0035	H0403001.0035	H0433001.0035
H0453001.0040	H0483001.0040	H0403001.0040	H0433001.0040
H0453001.0050	H0483001.0050	H0403001.0050	H0433001.0050
H0453001.0060	H0483001.0060	H0403001.0060	H0433001.0060
H0453001.0080	H0483001.0080	H0403001.0080	H0433001.0080
H0453001.0100	H0483001.0100	H0403001.0100	H0433001.0100
H0453001.0112	H0483001.0112	H0403001.0112	H0433001.0112
H0453001.0114	H0483001.0114	H0403001.0114	H0433001.0114
H0453001.0116	H0483001.0116	H0403001.0116	H0433001.0116
H0453001.0120	H0483001.0120	H0403001.0120	H0433001.0120
H0453001.0124	H0483001.0124	H0403001.0124	H0433001.0124
			M 2
			2,2
			2,3
			2,5
			2,6
			3
			3,5
			4
			5
			6
			8
			10
			12
			14
			16
			18
			20
			22
			24
			27
			30

2) 通り穴の場合No.1は不要です
No.1 is not needed when tapping in through holes by hand

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

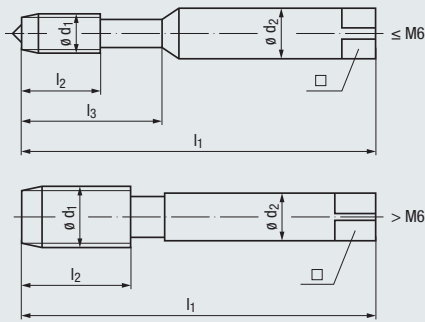


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



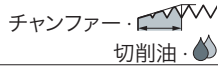
DIN 13

DIN 352



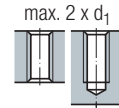
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information



TIN	TIN	TIN	6HX
HSSE	HSSE	HSSE	TIN
C / 2-3	C / 2-3	C / 2-3	C / 2-3
O / P	O / P	O / P	O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション – 被削材
Applications – material

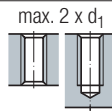


P 1.1-5.1	P 1.1-5.1	P 1.1-5.1	P 1.1-5.1
M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1
K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
N 1.1-2.7	N 1.1-2.7	N 1.1-2.7	N 1.1-2.7
S 2.1-2.6	S 2.1-2.6	S 2.1-2.6	S 2.1-2.6

∅ d ₁ mm	P mm	l ₁	l ₂	l ₃	∅ d ₂	□		WM-Set V-Nr.1Z TIN	WM-Set V-Nr.1 TIN	WM-Set M-Nr.2 TIN	WM-Set F TIN
M 3	0,5	40	10	18	3,5	2,7	2,5	H0413119.0030	H0423119.0030	H0423129.0030	H0423101.0030
4	0,7	45	12	22	4,5	3,4	3,3	H0413119.0040	H0423119.0040	H0423129.0040	H0423101.0040
5	0,8	50	14	25	6	4,9	4,2	H0413119.0050	H0423119.0050	H0423129.0050	H0423101.0050
6	1	56	16	28	6	4,9	5	H0413119.0060	H0423119.0060	H0423129.0060	H0423101.0060
8	1,25	63	20	–	6	4,9	6,8	H0413119.0080	H0423119.0080	H0423129.0080	H0423101.0080
10	1,5	70	22	–	7	5,5	8,5	H0413119.0100	H0423119.0100	H0423129.0100	H0423101.0100
12	1,75	75	24	–	9	7	10,2	H0413119.0112	H0423119.0112	H0423129.0112	H0423101.0112
14	2	80	26	–	11	9	12				
16	2	80	27	–	12	9	14	H0413119.0116	H0423119.0116	H0423129.0116	H0423101.0116

1) パイロット付き No.1Zは、特にマニュアルで加工を行う場合に精度を確保するためのオプションとなります。
機械での加工の場合は必ずしも必要ではありません。No.1ZとNo.1は同径です。
The taper tap No. 1Z with cylindrical pilot is an additional aid for true alignment especially when tapping by hand.
It can be deleted when tapping by machine. The profile graduation of No.1Z, and No.1 is the same.

 2)	 	 2)	 																				
<table border="1"> <tr><td>6HX</td></tr> <tr><td>TIN</td></tr> <tr><td>HSSE</td></tr> </table> <table border="1"> <tr><td>C / 2-3</td></tr> <tr><td>O / P</td></tr> </table>	6HX	TIN	HSSE	C / 2-3	O / P	<table border="1"> <tr><td>6HX</td></tr> <tr><td>TIN</td></tr> <tr><td>HSSE</td></tr> </table> <table border="1"> <tr><td>C / 2-3</td></tr> <tr><td>O / P</td></tr> </table>	6HX	TIN	HSSE	C / 2-3	O / P	<table border="1"> <tr><td>6HX</td></tr> <tr><td>TIN</td></tr> <tr><td>HSSE</td></tr> </table> <table border="1"> <tr><td>C / 2-3</td></tr> <tr><td>O / P</td></tr> </table>	6HX	TIN	HSSE	C / 2-3	O / P	<table border="1"> <tr><td>6HX</td></tr> <tr><td>TIN</td></tr> <tr><td>HSSE</td></tr> </table> <table border="1"> <tr><td>C / 2-3</td></tr> <tr><td>O / P</td></tr> </table>	6HX	TIN	HSSE	C / 2-3	O / P
6HX																							
TIN																							
HSSE																							
C / 2-3																							
O / P																							
6HX																							
TIN																							
HSSE																							
C / 2-3																							
O / P																							
6HX																							
TIN																							
HSSE																							
C / 2-3																							
O / P																							
6HX																							
TIN																							
HSSE																							
C / 2-3																							
O / P																							



<table border="1"> <tr><td>P 1.1-5.1</td></tr> <tr><td>M 1.1-4.1</td></tr> <tr><td>K 1.1-4.2</td></tr> <tr><td>N 1.1-2.7</td></tr> <tr><td>S 2.1-2.6</td></tr> </table>	P 1.1-5.1	M 1.1-4.1	K 1.1-4.2	N 1.1-2.7	S 2.1-2.6	<table border="1"> <tr><td>P 1.1-5.1</td></tr> <tr><td>M 1.1-4.1</td></tr> <tr><td>K 1.1-4.2</td></tr> <tr><td>N 1.1-2.7</td></tr> <tr><td>S 2.1-2.6</td></tr> </table>	P 1.1-5.1	M 1.1-4.1	K 1.1-4.2	N 1.1-2.7	S 2.1-2.6	<table border="1"> <tr><td>P 1.1-5.1</td></tr> <tr><td>M 1.1-4.1</td></tr> <tr><td>K 1.1-4.2</td></tr> <tr><td>N 1.1-2.7</td></tr> <tr><td>S 2.1-2.6</td></tr> </table>	P 1.1-5.1	M 1.1-4.1	K 1.1-4.2	N 1.1-2.7	S 2.1-2.6	<table border="1"> <tr><td>P 1.1-5.1</td></tr> <tr><td>M 1.1-4.1</td></tr> <tr><td>K 1.1-4.2</td></tr> <tr><td>N 1.1-2.7</td></tr> <tr><td>S 2.1-2.6</td></tr> </table>	P 1.1-5.1	M 1.1-4.1	K 1.1-4.2	N 1.1-2.7	S 2.1-2.6
P 1.1-5.1																							
M 1.1-4.1																							
K 1.1-4.2																							
N 1.1-2.7																							
S 2.1-2.6																							
P 1.1-5.1																							
M 1.1-4.1																							
K 1.1-4.2																							
N 1.1-2.7																							
S 2.1-2.6																							
P 1.1-5.1																							
M 1.1-4.1																							
K 1.1-4.2																							
N 1.1-2.7																							
S 2.1-2.6																							
P 1.1-5.1																							
M 1.1-4.1																							
K 1.1-4.2																							
N 1.1-2.7																							
S 2.1-2.6																							

WM-Set-3S TIN (Nr.1Z, Nr.1, F)	WM-Set-2S TIN (Nr.1, F)	WM-Set-4S TIN (Nr.1Z, Nr.1, Nr.2, F)	WM-Set-3S TIN (Nr.1, Nr.2, F)	
H0453101.0030	H0483101.0030	H0403101.0030	H0433101.0030	M 3
H0453101.0040	H0483101.0040	H0403101.0040	H0433101.0040	4
H0453101.0050	H0483101.0050	H0403101.0050	H0433101.0050	5
H0453101.0060	H0483101.0060	H0403101.0060	H0433101.0060	6
H0453101.0080	H0483101.0080	H0403101.0080	H0433101.0080	8
H0453101.0100	H0483101.0100	H0403101.0100	H0433101.0100	10
H0453101.0112	H0483101.0112	H0403101.0112	H0433101.0112	12
				14
H0453101.0116	H0483101.0116	H0403101.0116	H0433101.0116	16

2) 通り穴の場合No.1は不要です
No.1 is not needed when tapping in through holes by hand

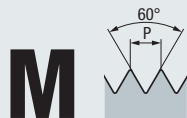
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



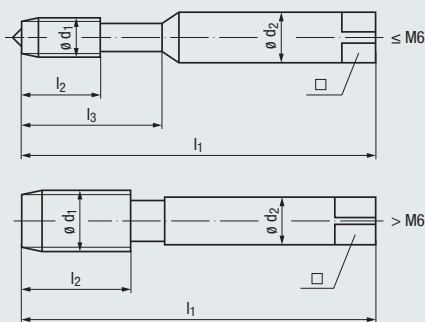
調整式タップハンドルは 305ページ
をご覧ください。

Adjustable tap wrenches, see page 305

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

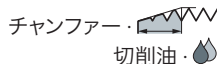


DIN 352



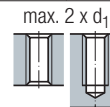
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information



NT	NT	NT	6HX
HSSE	HSSE	HSSE	NT
C / 2-3	C / 2-3	C / 2-3	HSSE
O / P	O / P	O / P	C / 2-3
			O / P

ねじ深さと穴形状
Thread depth and hole type







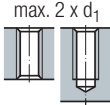
アプリケーション – 被削材
Applications – material



P 3.1-5.1	P 3.1-5.1	P 3.1-5.1	P 3.1-5.1
N 2.7	N 2.7	N 2.7	N 2.7
S 2.3, 2.5-2.6	S 2.3, 2.5-2.6	S 2.3, 2.5-2.6	S 2.3, 2.5-2.6

M	∅ d ₁ mm	P mm	l ₁	l ₂	l ₃	∅ d ₂	□	Image	WM-F-TIC-Set	WM-F-TIC-Set	WM-F-TIC-Set	WM-F-TIC-Set
									V-Nr.1Z NT	V-Nr.1 NT	M-Nr.2 NT	F NT
	3	0,5	40	10	18	3,5	2,7	2,5	H0417119.0030	H0427119.0030	H0427129.0030	H0427101.0030
	4	0,7	45	12	22	4,5	3,4	3,3	H0417119.0040	H0427119.0040	H0427129.0040	H0427101.0040
	5	0,8	50	14	25	6	4,9	4,2	H0417119.0050	H0427119.0050	H0427129.0050	H0427101.0050
	6	1	56	16	28	6	4,9	5	H0417119.0060	H0427119.0060	H0427129.0060	H0427101.0060
	8	1,25	63	20	–	6	4,9	6,8	H0417119.0080	H0427119.0080	H0427129.0080	H0427101.0080
	10	1,5	70	22	–	7	5,5	8,5	H0417119.0100	H0427119.0100	H0427129.0100	H0427101.0100
	12	1,75	75	24	–	9	7	10,2	H0417119.0112	H0427119.0112	H0427129.0112	H0427101.0112
	16	2	80	27	–	12	9	14	H0417119.0116	H0427119.0116	H0427129.0116	H0427101.0116
	20	2,5	95	32	–	16	12	17,5	H0417119.0120	H0427119.0120	H0427129.0120	H0427101.0120

1) パイロット付き No.1Zは、特にマニュアルで加工を行う場合に精度を確保するためのオプションとなります。
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The taper tap No. 1Z with cylindrical pilot is an additional aid for true alignment especially when tapping by hand.
It can be deleted when tapping by machine. The profile graduation of No.1Z, and No.1 is the same.

  2)	 			Product Finder V _c M MF UNC UN-8 UNF UNEF G, Rp NPSM, NPSF NPT, NPTF Rc, W BSW, BSF Pg MJ UNJC, UNJF EG (STI) SELF-LOCK Tr, Tr-F Rd Zubehör Accessories
6HX NT HSSE C / 2-3 O / P	6HX NT HSSE C / 2-3 O / P			
				
P 3.1-5.1 N 2.7 S 2.3, 2.5-2.6	P 3.1-5.1 N 2.7 S 2.3, 2.5-2.6			
WM-F-TIC-Set-4S NT (Nr.1Z, Nr.1, Nr.2, F)	WM-F-TIC-Set-3S NT (Nr.1, Nr.2, F)			
H0407101.0030	H0437101.0030			M 3
H0407101.0040	H0437101.0040			4
H0407101.0050	H0437101.0050			5
H0407101.0060	H0437101.0060			6
H0407101.0080	H0437101.0080			8
H0407101.0100	H0437101.0100			10
H0407101.0112	H0437101.0112			12
H0407101.0116	H0437101.0116			16
H0407101.0120	H0437101.0120			20

2) 通り穴の場合No.1は不要です
 No.1 is not needed when tapping in through holes by hand

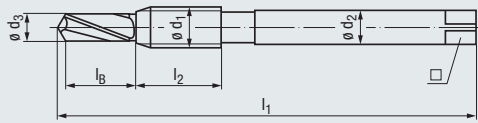


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

スタンダードおよびエクストラロング
Standard length and extra long



公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information

チャンファー · 切削油 ·

ISO 2/6H	ISO 2/6H
HSSE	HSSE
C / 2-3	C / 2-3
E / O	E / O

ねじ深さと穴形状
Thread depth and hole type

max. 1 x d₁



アプリケーション - 被削材
Applications - material 78

P 2.1	P 2.1
N 2.2	N 2.2

スタンダード · Standard length

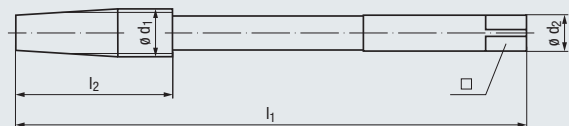
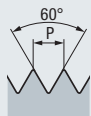
ϕd_1 mm	P mm	l_1	l_2	l_B	ϕd_2	□	ϕd_3	KOMBI Normal-Ig
M 3	0,5	62	11	8,2	3,5	2,7	2,55	M0601000.0030
3,5	0,6	66	12	9,1	4	3	2,95	
4	0,7	66	13	9	4,5	3,4	3,36	M0601000.0040
5	0,8	75	15	10,7	6	4,9	4,26	M0601000.0050
6	1	81	20	12,5	6	4,9	5,05	M0601000.0060
8	1,25	93	12	17,9	6	4,9	6,8	M0601000.0080
10	1,5	99	14	19,4	7	5,5	8,55	M0601000.0100
12	1,75	106	16	21,8	9	7	10,3	M0601000.0112
14	2	114	18	24,3	11	9	12,1	
16	2	123	20	27,7	12	9	14,1	M0601000.0116
18	2,5	132	22	31,2	14	11	15,6	
20	2,5	132	22	30,6	16	12	17,6	M0601000.0120

エクストラロング · Extra long

ϕd_1 mm	P mm	l_1	l_2	l_B	ϕd_2	□	ϕd_3	KOMBI Extra-Ig
M 3	0,5	71	11	17,2	3,5	2,7	2,55	M0621000.0030
4	0,7	77	13	20	4,5	3,4	3,36	M0621000.0040
5	0,8	87	13,7	24	6	4,9	4,26	M0621000.0050
6	1	94	20	25,5	6	4,9	5,05	M0621000.0060
8	1,25	109	12	33,9	6	4,9	6,8	M0621000.0080
10	1,5	118	14	38,4	7	5,5	8,55	M0621000.0100
12	1,75	127	16	42,8	9	7	10,3	M0621000.0112

M

DIN 13



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

M	$\varnothing d_1$ mm	P mm	l_1	l_2	$\varnothing d_2$	\square	
	3	0,5	70	16	2,2	–	2,5
	4	0,7	90	22	2,8	2,1	3,3
	5	0,8	100	24	3,5	2,7	4,2
	6	1	110	30	4,5	3,4	5
	7	1	110	30	5,5	4,3	6
	8	1,25	125	38	6	4,9	6,8
	10	1,5	140	45	7	5,5	8,5
	12	1,75	180	50	9	7	10,2
	14	2	200	56	11	9	12
	16	2	200	63	12	9	14
	18	2,5	220	63	14	11	15,5
	20	2,5	250	70	16	12	17,5
	22	2,5	280	80	18	14,5	19,5
	24	3	280	80	18	14,5	21
	27	3	315	90	20	16	24
	30	3,5	315	100	22	18	26,5



特殊品にも対応致します
Please contact us for special taps!

ISO 2/6H

HSSE

E / O

max. 1,5 x d_1



P 1.1-3.1

N 2.2

MMB
DIN 357

M0101000.0030

M0101000.0040

M0101000.0050

M0101000.0060

M0101000.0070

M0101000.0080

M0101000.0100

M0101000.0112

M0101000.0116

Product
Finder

V_c

M

MF

UNC

UN-8

UNF

UNEF

G, Rp

NPSM, NPSF

NPT, NPTF

Re, W

BSW, BSF

Pg

MJ

UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F

Rd

Zubehör

Accessories

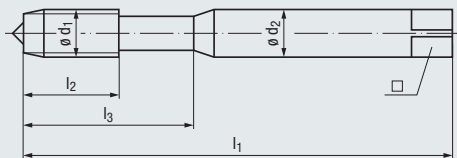


- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 371

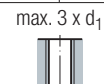
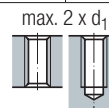


STEEL
鋼



技術情報 Technical information	公差 · Tolerance	6HX	6HX	ISO 2/6H	ISO 2/6H
	コーティング · Coating	HSSE	HSSE	HSSE	TIN
	母材 · Cutting material		左ねじ		HSSE
	チャンファー · 切削油 ·	C / 2-3	C / 2-3	B / 4-5	B / 4-5
		E / 0	E / 0	E / 0	E / 0

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material ▶▶ 78

K 1.1-4.2	K 1.1-4.2	P 1.1-3.1	P 1.1-4.1
N 2.3	N 2.3	N 2.2	

M	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□		Rekord 1A-STEEL	Rekord 1A-STEEL-LH	Rekord 1B-STEEL-L	Rekord 1B-STEEL-L TIN
									B0101001.0196			
2,5	x	0,35	50	7	12	2,8	2,1	2,15	B0101001.0199			
2,6	x	0,35	50	7	12	2,8	2,1	2,25	B0101001.0202	B0101051.0202		
3	x	0,35	56	8	18	3,5	2,7	2,65	B0101001.0205		B0208900.0205	B0208400.0205
3,5	x	0,35	56	9	20	4	3	3,15	B0101001.0210	B0101051.0210	B0208900.0210	B0208400.0210
4	x	0,5	63	10	21	4,5	3,4	3,5	B0101001.0218	B0101051.0218	B0208900.0218	B0208400.0218
5	x	0,5	70	11	25	6	4,9	4,5	B0101001.0228	B0101051.0228	B0208900.0228	B0208400.0228
6	x	0,5	80	13	30	6	4,9	5,5	B0101001.0229	B0101051.0229	B0208900.0229	B0208400.0229
6	x	0,75	80	13	30	6	4,9	5,2	B0101001.0239		B0208900.0239	B0208400.0239
7	x	0,75	80	13	30	7	5,5	6,2	B0101001.0250		B0208900.0250	B0208400.0250
8	x	0,75	80	14	30	8	6,2	7,2	B0101001.0251	B0101051.0251	B0208900.0251	B0208400.0251
8	x	1	90	17	35	8	6,2	7	B0101001.0262		B0208900.0262	B0208400.0262
9	x	0,75	90	14	35	9	7	8,2	B0101001.0263		B0208900.0263	B0208400.0263
9	x	1	90	17	35	9	7	8	B0101001.0275		B0208900.0275	B0208400.0275
10	x	0,75	90	15	35	10	8	9,2	B0101001.0276	B0101051.0276	B0208900.0276	B0208400.0276
10	x	1	90	18	35	10	8	9	B0101001.0277		B0208900.0277	B0208400.0277
10	x	1,25	100	18	39	10	8	8,8				

DIN 374

168

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168

DIN 2181

194

194



ソフトシンクロ タップホルダーは
617 - 644 ページをご覧ください。

Tool holders of our Softsynchro® series,
see page 617 - 644

STEEL 鋼		VA ステンレス		H 高強度鋼		Product Finder	
							Product Finder
							V _c
new	new						M
							MF
6HX	6HX	ISO 2/6H	ISO 2/6H	6HX	6HX		UNC UN-8
ALCR-102	ALCR-101	TIN	GLT-1	NT			UNF UNEF
HSSE 粉末	HSSE 粉末	HSSE	HSSE	HSSE	超硬		G, Rp NPSM, NPSF
B / ≈6	B / ≈6	B / 4-5	B / 4-5	C / 2-3	C / 2-3		NPT, NPTF Rc, W
E / O	E / O	E / O / P	E / O / P	E / O / P	E / O		BSW, BSF
max. 3 x d ₁ 		max. 3 x d ₁ 		max. 2 x d ₁ 		max. 2 x d ₁ 	
P 3.1-5.1	P 3.1-5.1	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	K 1.1-4.2 N 4.1	K 1.1-4.2 N 1.5-1.6 N 2.6-2.8 N 4.1, 4.3-4.4 N 5.1-5.2		Pg
Rekord 1B-STEEL-H PM-ALCR-102	Rekord 1B-STEEL-H PM-ALCR-101	Rekord 1B-VA TIN	Rekord 1B-VA GLT-1	Rekord 1A-H NT	VHM-Rekord 1A-H-IKZ		MJ UNJC, UNJF
				B0100501.0196 B0100501.0199 B0100501.0202 B0100501.0205 B0100501.0210 B0100501.0218 B0100501.0228 B0100501.0229	B1950901.0229 B1950901.0251 B1950901.0276 B1950901.0277	M 2,5 x 0,35 2,6 x 0,35 3 x 0,35 3,5 x 0,35 4 x 0,5 5 x 0,5 6 x 0,5 6 x 0,75 7 x 0,75 8 x 0,75 8 x 1 9 x 0,75 9 x 1 10 x 0,75 10 x 1 10 x 1,25	EG (STI)
		B0203100.0210 B0203100.0218	B020C300.0210 B020C300.0218				SELF-LOCK
B0209J01.0251	B0208J01.0251						Tr, Tr-F Rd
B0209J01.0263	B0208J01.0263						Zubehör Accessories
B0209J01.0276	B0208J01.0276						
171	171	174	174	178	179		

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

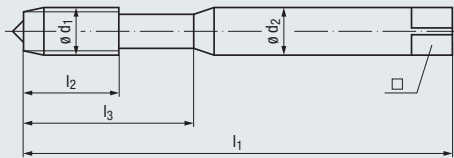
- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 371

HCUT
高硬度鋼



技術情報
Technical information

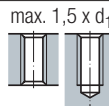
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

6HX
TICN
HSSE 粉末

C / 2-3
O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

H 1.1-1.2

M	ϕd_1 mm		P mm	l_1	l_2	l_3	ϕd_2		
	8	10							
	x	1		90	10	35	8	6,2	7,1
	x	1		90	10	35	10	8	9,1

Rekord 1A-HCUT PM-TICN
B010J901.0251
B010J901.0276

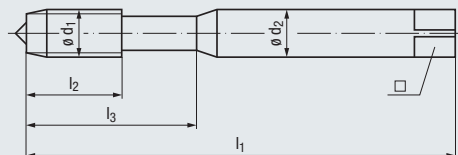
DIN 374

179



DIN 13

DIN
371



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファァー・
切削油・

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□		VHM-Rekord 1A-HCUT/D TICN	VHM-Rekord 1A-HCUT/C TICN
									H 1.3-1.4	H 1.3-1.4
M	8	x 1	90	15	35	8	6,2	7,1	B016K101.0251	B010K101.0251
	10	x 1	100	18	38	10	8	9,1	B016K101.0276	B010K101.0276
	12	x 1,5	110	21	41	12	9	10,6	B016K101.0303	B010K101.0303
	14	x 1,5	110	24	44	14	11	12,6	B016K101.0331	B010K101.0331
	16	x 1,5	110	24	44	16	12	14,6	B016K101.0359	B010K101.0359

2) 食い付き山数4.5山タイプを #1 タップとしてご使用ください!
Please note: Use solid carbide tap VHM-Rekord 1A-HCUT/D-TICN as No.1 tap!

6HX	6HX
TICN	TICN
超硬	超硬
D / 4-5	C / 2-3
O / P	O / P

max. 1,5 x d_1	max. 1,5 x d_1

H 1.3-1.4	H 1.3-1.4
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- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



高硬度鋼用ドリルEF-Drill-HCUT は 62ページをご覧ください。

Twist drills type EF-Drill-HCUT, see page 62

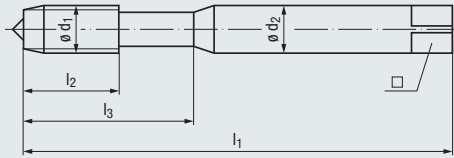
- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



MF

DIN 13

DIN 371



Z
シングロ加工



NEW



NEW



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

6HX TIN-70 HSSE 粉末	6HX GLT-1 HSSE 粉末	ISO 2/6H HSSE R45 C / 2-3 E / O / P	ISO 2/6H GLT-1 HSSE R45 C / 2-3 E / O / P
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ねじ深さと穴形状
Thread depth and hole type

max. 3 x d₁



max. 3 x d₁



アプリケーション - 被削材
Applications - material 78

P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1
-----------	--	-----------	--

	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□	
M	2,5	x 0,35	50	5	12	2,8	2,1	2,15
	2,6	x 0,35	50	5	12	2,8	2,1	2,25
	3	x 0,35	56	4,5	18	3,5	2,7	2,65
	3,5	x 0,35	56	5	20	4	3	3,15
	4	x 0,5	63	5	21	4,5	3,4	3,5
	5	x 0,5	70	5	25	6	4,9	4,5
	6	x 0,5	80	5	30	6	4,9	5,5
	6	x 0,75	80	8	30	6	4,9	5,2
	7	x 0,75	80	10	30	7	5,5	6,2
	8	x 0,75	80	8	30	8	6,2	7,2
8	x 1	90	10	35	8	6,2	7	
9	x 0,75	90	10	35	9	7	8,2	
9	x 1	90	10	35	9	7	8	
10	x 0,75	90	10	35	10	8	9,2	
10	x 1	90	10	35	10	8	9	
10	x 1,25	100	16	39	10	8	8,8	

Rekord 1B-Z PM-TIN-70	Rekord 1B-Z PM-GLT-1	Enorm 1-Z	Enorm 1-Z GLT-1
		B0503500.0196	
		B0503500.0199	
		B0503500.0202	
		B0503500.0205	
B0208F01.0210	B020A601.0210	B0503500.0210	B050C400.0210
B0208F01.0218	B020A601.0218	B0503500.0218	B050C400.0218
		B0503500.0228	B050C400.0228
		B0503500.0229	B050C400.0229
		B0503500.0239	
		B0503500.0250	
		B0503500.0251	B050C400.0251
		B0503500.0262	
		B0503500.0263	
		B0503500.0275	
		B0503500.0276	B050C400.0276
		B0503500.0277	B050C400.0277

DIN 374
DIN 2181

181 181 183 185

Z
シンク口加工



ISO 2/6H

ISO 2/6H

ISO 1/4H

ISO 1/4H

ISO 3/6G

ISO 3/6G

GLT-1

GLT-1

GLT-1

HSSE

HSSE

HSSE

HSSE

HSSE

HSSE

R45

R45

R45

R45

R45

R45

E / 1,5-2

E / 1,5-2

C / 2-3

C / 2-3

E / 1,5-2

E / 1,5-2

E / O / P

E / O / P

E / O / P

E / O / P

E / O / P

E / O / P

max. 3 x d₁



P 1.1-3.1

P 1.1-4.1

P 1.1-3.1

P 1.1-4.1

P 1.1-3.1

P 1.1-4.1

M 1.1-4.1

N 1.4, 2.1-2.2

N 2.4-2.5

S 1.1

M 1.1-4.1

N 1.4, 2.1-2.2

N 2.4-2.5

S 1.1

M 1.1-4.1

N 1.4, 2.1-2.2

N 2.4-2.5

S 1.1

Enorm 1-Z/E

Enorm 1-Z/E
GLT-1

Enorm 1-Z

Enorm 1-Z
GLT-1

Enorm 1-Z/E

Enorm 1-Z/E
GLT-1

B0513500.0210
B0513500.0218
B0513500.0228
B0513500.0229

B051C400.0210
B051C400.0218
B051C400.0228
B051C400.0229

B0503510.0210
B0503510.0218
B0503510.0228
B0503510.0229

B050C410.0210
B050C410.0218
B050C410.0228
B050C410.0229

B0513520.0210
B0513520.0218
B0513520.0228
B0513520.0229

B051C420.0210
B051C420.0218
B051C420.0228
B051C420.0229

M 2,5 x 0,35
2,6 x 0,35
3 x 0,35
3,5 x 0,35
4 x 0,5
5 x 0,5
6 x 0,5
6 x 0,75
7 x 0,75
8 x 0,75
8 x 1
9 x 0,75
9 x 1
10 x 0,75
10 x 1
10 x 1,25

185

185

186

187

187

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

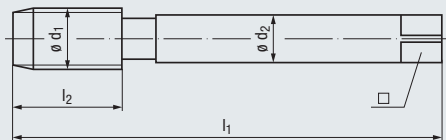


- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



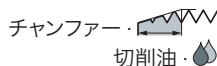
DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material



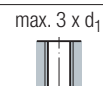
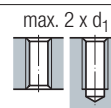
ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

STEEL
鋼



6HX	ISO 2/6H	ISO 2/6H	ISO 1/4H
HSSE	HSSE	TIN HSSE	HSSE
C / 2-3 E / 0	B / 4-5 E / 0	B / 4-5 E / 0	B / 4-5 E / 0



K 1.1-4.2 N 2.3	P 1.1-3.1 N 2.2	P 1.1-4.1	P 1.1-3.1 N 2.2
----------------------------------	----------------------------------	------------------	----------------------------------

ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Rekord 2A-STEEL	Rekord 2B-STEEL-L	Rekord 2B-STEEL-L TIN	Rekord 2B-STEEL-L
M 4 x 0,35	63	10	2,8	2,1	3,65	C0101001.0209	C0208900.0209	C0208400.0209		
4 x 0,5	63	10	2,8	2,1	3,5	C0101001.0210	C0208900.0210	C0208400.0210		
5 x 0,5	70	11	3,5	2,7	4,5	C0101001.0218	C0208900.0218	C0208400.0218		
6 x 0,5	80	13	4,5	3,4	5,5	C0101001.0228	C0208900.0228	C0208400.0228		
6 x 0,75	80	13	4,5	3,4	5,2	C0101001.0229	C0208900.0229	C0208400.0229		
8 x 0,75	80	14	6	4,9	7,2	C0101001.0250	C0208900.0250	C0208400.0250		
8 x 1	90	17	6	4,9	7	C0101001.0251	C0208900.0251	C0208400.0251	C0208910.0251	
9 x 1	90	17	7	5,5	8	C0101001.0263	C0208900.0263	C0208400.0263		
10 x 0,75	90	18	7	5,5	9,2	C0101001.0275	C0208900.0275	C0208400.0275		
10 x 1	90	18	7	5,5	9	C0101001.0276	C0208900.0276	C0208400.0276	C0208910.0276	
10 x 1,25	100	22	7	5,5	8,8	C0101001.0277	C0208900.0277	C0208400.0277		
11 x 1	90	18	8	6,2	10	C0101001.0288	C0208900.0288	C0208400.0288		
12 x 1	100	18	9	7	11	C0101001.0301	C0208900.0301	C0208400.0301	C0208910.0301	
12 x 1,25	100	22	9	7	10,8	C0101001.0302	C0208900.0302	C0208400.0302		
12 x 1,5	100	22	9	7	10,5	C0101001.0303	C0208900.0303	C0208400.0303	C0208910.0303	
14 x 1	100	18	11	9	13	C0101001.0329	C0208900.0329	C0208400.0329		
14 x 1,25	100	22	11	9	12,8	C0101001.0330	C0208900.0330	C0208400.0330		
14 x 1,5	100	22	11	9	12,5	C0101001.0331	C0208900.0331	C0208400.0331	C0208910.0331	
15 x 1	100	18	12	9	14	C0101001.0343	C0208900.0343	C0208400.0343		
16 x 1	100	18	12	9	15	C0101001.0357	C0208900.0357	C0208400.0357		
16 x 1,5	100	22	12	9	14,5	C0101001.0359	C0208900.0359	C0208400.0359	C0208910.0359	
18 x 1	110	20	14	11	17	C0101001.0388	C0208900.0388	C0208400.0388		
18 x 1,5	110	25	14	11	16,5	C0101001.0390	C0208900.0390	C0208400.0390	C0208910.0390	
18 x 2	125	26	14	11	16	C0101001.0391	C0208900.0391	C0208400.0391		
20 x 1	125	20	16	12	19	C0101001.0420	C0208900.0420	C0208400.0420		
20 x 1,5	125	25	16	12	18,5	C0101001.0422	C0208900.0422	C0208400.0422	C0208910.0422	
20 x 2	140	27	16	12	18	C0101001.0423	C0208900.0423	C0208400.0423		
22 x 1	125	20	18	14,5	21	C0101001.0436	C0208900.0436	C0208400.0436		
22 x 1,5	125	25	18	14,5	20,5	C0101001.0438	C0208900.0438	C0208400.0438		
22 x 2	140	27	18	14,5	20	C0101001.0439	C0208900.0439	C0208400.0439		
24 x 1	140	20	18	14,5	23	C0101001.0450	C0208900.0450	C0208400.0450		
24 x 1,5	140	27	18	14,5	22,5	C0101001.0452	C0208900.0452	C0208400.0452		
24 x 2	140	27	18	14,5	22	C0101001.0453	C0208900.0453	C0208400.0453		
25 x 1,5	140	28	18	14,5	23,5	C0101001.0458	C0208900.0458	C0208400.0458		
26 x 1,5	140	28	18	14,5	24,5	C0101001.0464	C0208900.0464	C0208400.0464		

DIN 371

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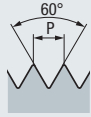
162

162

DIN 2181

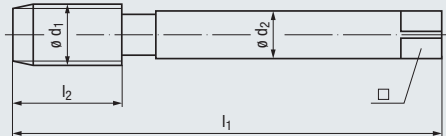
194

MF



DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファァー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

STEEL
鋼



6HX	ISO 2/6H	ISO 2/6H TIN	ISO 1/4H
HSSE	HSSE	HSSE	HSSE
C / 2-3 E / 0	B / 4-5 E / 0	B / 4-5 E / 0	B / 4-5 E / 0

max. 2 x d ₁ 	max. 3 x d ₁
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K 1.1-4.2 N 2.3	P 1.1-3.1 N 2.2	P 1.1-4.1	P 1.1-3.1 N 2.2
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M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Rekord	Rekord	Rekord	Rekord
								2A-STEEL	2B-STEEL-L	2B-STEEL-L TIN	2B-STEEL-L
	27	x 1,5	140	28	20	16	25,5	C0101001.0470	C0208900.0470	C0208400.0470	
	27	x 2	140	28	20	16	25	C0101001.0471	C0208900.0471	C0208400.0471	
	28	x 1,5	140	28	20	16	26,5	C0101001.0476	C0208900.0476	C0208400.0476	
	28	x 2	140	28	20	16	26	C0101001.0477	C0208900.0477	C0208400.0477	
	30	x 1,5	150	28	22	18	28,5	C0101001.0490	C0208900.0490	C0208400.0490	
	30	x 2	150	28	22	18	28	C0101001.0491	C0208900.0491	C0208400.0491	
	32	x 1,5	150	28	22	18	30,5	C0101001.0504	C0208900.0504	C0208400.0504	
	32	x 2	150	28	22	18	30	C0101001.0505	C0208900.0505	C0208400.0505	
	33	x 1,5	160	30	25	20	31,5	C0101001.0511	C0208900.0511	C0208400.0511	
	33	x 2	160	30	25	20	31	C0101001.0512	C0208900.0512	C0208400.0512	
	34	x 1,5	170	30	28	22	32,5	C0101001.0518	C0208900.0518	C0208400.0518	
	35	x 1,5	170	30	28	22	33,5	C0101001.0525	C0208900.0525	C0208400.0525	
	36	x 1,5	170	30	28	22	34,5	C0101001.0532	C0208900.0532	C0208400.0532	
	36	x 2	170	30	28	22	34	C0101001.0533	C0208900.0533	C0208400.0533	
	36	x 3	200	42	28	22	33	C0101001.0534	C0208900.0534	C0208400.0534	
	38	x 1,5	170	30	28	22	36,5	C0101001.0546	C0208900.0546	C0208400.0546	
	39	x 1,5	170	30	32	24	37,5	C0101001.0553	C0208900.0553	C0208400.0553	
	39	x 2	170	30	32	24	37	C0101001.0554	C0208900.0554	C0208400.0554	
	40	x 1,5	170	30	32	24	38,5	C0101001.0560	C0208900.0560	C0208400.0560	
	40	x 2	170	30	32	24	38	C0101001.0561	C0208900.0561	C0208400.0561	
	42	x 1,5	170	30	32	24	40,5	C0101001.0574	C0208900.0574	C0208400.0574	
	42	x 2	170	30	32	24	40	C0101001.0575	C0208900.0575	C0208400.0575	
	42	x 3	200	45	32	24	39	C0101001.0576	C0208900.0576	C0208400.0576	
	45	x 1,5	180	32	36	29	43,5	C0101001.0595	C0208900.0595	C0208400.0595	
	45	x 2	180	32	36	29	43	C0101001.0596	C0208900.0596	C0208400.0596	
	45	x 3	200	45	36	29	42	C0101001.0597	C0208900.0597	C0208400.0597	
	48	x 1,5	190	32	36	29	46,5	C0101001.0616	C0208900.0616	C0208400.0616	
	48	x 2	190	32	36	29	46	C0101001.0617	C0208900.0617	C0208400.0617	
	48	x 3	225	50	36	29	45	C0101001.0618	C0208900.0618	C0208400.0618	
	50	x 1,5	190	32	36	29	48,5	C0101001.0630	C0208900.0630	C0208400.0630	
	50	x 2	190	32	36	29	48	C0101001.0631	C0208900.0631	C0208400.0631	
	52	x 1,5	190	32	40	32	50,5	C0101001.0644	C0208900.0644	C0208400.0644	
	52	x 2	190	32	40	32	50	C0101001.0645	C0208900.0645	C0208400.0645	
	52	x 3	225	50	40	32	49	C0101001.0646	C0208900.0646	C0208400.0646	

DIN 371	162
DIN 2181	194

Product Finder

- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

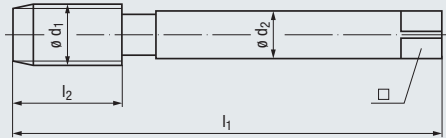


- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	\square	
M	6 x 0,5	80	13	4,5	3,4	5,5	
	6 x 0,75	80	13	4,5	3,4	5,2	
	8 x 0,75	80	14	6	4,9	7,2	
	8 x 1	90	17	6	4,9	7	
	9 x 1	90	17	7	5,5	8	
	10 x 0,75	90	18	7	5,5	9,2	
	10 x 1	90	18	7	5,5	9	
	10 x 1,25	100	22	7	5,5	8,8	
	11 x 1	90	18	8	6,2	10	
	12 x 1	100	18	9	7	11	
	12 x 1,25	100	22	9	7	10,8	
	12 x 1,5	100	22	9	7	10,5	
	14 x 1	100	18	11	9	13	
	14 x 1,25	100	22	11	9	12,8	
	14 x 1,5	100	22	11	9	12,5	
	15 x 1	100	18	12	9	14	
	16 x 1	100	18	12	9	15	
	16 x 1,5	100	22	12	9	14,5	
	18 x 1	110	20	14	11	17	
	18 x 1,5	110	25	14	11	16,5	
	18 x 2	125	26	14	11	16	
	20 x 1	125	20	16	12	19	
	20 x 1,5	125	25	16	12	18,5	
	20 x 2	140	27	16	12	18	
	22 x 1	125	20	18	14,5	21	
	22 x 1,5	125	25	18	14,5	20,5	
	22 x 2	140	27	18	14,5	20	
	24 x 1	140	20	18	14,5	23	
	24 x 1,5	140	27	18	14,5	22,5	
	24 x 2	140	27	18	14,5	22	

max. 3 x d₁



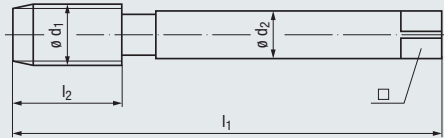
P 1.1-4.1	P 1.1-3.1 N 2.2	P 1.1-4.1	P 1.1-3.1 N 2.2
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Rekord 2B-STEEL-L TIN	Rekord 2B-STEEL-L	Rekord 2B-STEEL-L TIN	Rekord 2B-STEEL-L-LH
C0208410.0251	C0208920.0251	C0208420.0251	C0208950.0251
C0208410.0276	C0208920.0276	C0208420.0276	C0208950.0276
C0208410.0301	C0208920.0301	C0208420.0301	C0208950.0301
C0208410.0303	C0208920.0303	C0208420.0303	C0208950.0303
C0208410.0331	C0208920.0331	C0208420.0331	C0208950.0331
C0208410.0359	C0208920.0359	C0208420.0359	C0208950.0359
C0208410.0390	C0208920.0390	C0208420.0390	C0208950.0390
C0208410.0422	C0208920.0422	C0208420.0422	C0208950.0422





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DIN 374




技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファァー 
切削油 

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material  78

STEEL
鋼



new



new




ISO 2/6H	6HX	6HX
TIN	ALCR-102	ALCR-101
HSSE	HSSE 粉末	HSSE 粉末
左ねじ		
B / 4-5	B / ≈6	B / ≈6
E / 0	E / 0	E / 0

max. 3 x d₁



P 1.1-4.1	P 3.1-5.1	P 3.1-5.1
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M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Rekord	Rekord	Rekord
								2B-STEEL-L-LH TIN	2B-STEEL-H PM-ALCR-102	2B-STEEL-H PM-ALCR-101
	6	x 0,5	80	13	4,5	3,4	5,5			
	6	x 0,75	80	13	4,5	3,4	5,2			
	8	x 0,75	80	14	6	4,9	7,2			
	8	x 1	90	17	6	4,9	7	C0208450.0251		
	9	x 1	90	17	7	5,5	8			
	10	x 0,75	90	18	7	5,5	9,2			
	10	x 1	90	18	7	5,5	9	C0208450.0276		
	10	x 1,25	100	22	7	5,5	8,8			
	11	x 1	90	18	8	6,2	10			
	12	x 1	100	18	9	7	11	C0208450.0301		
	12	x 1,25	100	22	9	7	10,8			
	12	x 1,5	100	22	9	7	10,5	C0208450.0303	C0209J01.0303	C0208J01.0303
	14	x 1	100	18	11	9	13			
	14	x 1,25	100	22	11	9	12,8			
	14	x 1,5	100	22	11	9	12,5	C0208450.0331	C0209J01.0331	C0208J01.0331
	15	x 1	100	18	12	9	14			
	16	x 1	100	18	12	9	15			
	16	x 1,5	100	22	12	9	14,5	C0208450.0359	C0209J01.0359	C0208J01.0359
	18	x 1	110	20	14	11	17			
	18	x 1,5	110	25	14	11	16,5	C0208450.0390		
	18	x 2	125	26	14	11	16			
	20	x 1	125	20	16	12	19			
	20	x 1,5	125	25	16	12	18,5	C0208450.0422		
	20	x 2	140	27	16	12	18			
	22	x 1	125	20	18	14,5	21			
	22	x 1,5	125	25	18	14,5	20,5			
	22	x 2	140	27	18	14,5	20			
	24	x 1	140	20	18	14,5	23			
	24	x 1,5	140	27	18	14,5	22,5			
	24	x 2	140	27	18	14,5	22			



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Product Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

Zubehör
Accessories

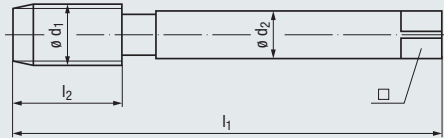


- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

STEEL
鋼



ISO 2/6H	ISO 2/6H	ISO 2/6H	ISO 2/6H
HSSE	HSSE	HSSE	TIN HSSE
R15	R15	R35	R35
C / 2-3	E / 1,5-2	C / 2-3	C / 2-3
E / 0	E / 0	E / 0	E / 0

max. 2 x d₁



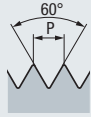
max. 2,5 x d₁



P 2.1-3.1	P 2.1-3.1	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2
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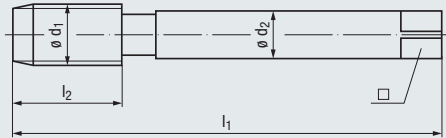
∅ d ₁ mm	P mm	l ₁	l ₂	∅ d ₂	□		Rekord 2D-STEEL	Rekord 2D-STEEL/E	Enorm 2-STEEL	Enorm 2-STEEL TIN
M 4 x 0,35	63	10	2,8	2,1	3,65					
4 x 0,5	63	10	2,8	2,1	3,5					
5 x 0,5	70	11	3,5	2,7	4,5					
6 x 0,5	80	13	4,5	3,4	5,5					
6 x 0,75	80	13	4,5	3,4	5,2		C0451000.0229		C0501000.0229	C0501400.0229
8 x 0,75	80	14	6	4,9	7,2		C0451000.0250			
8 x 1	90	17	6	4,9	7		C0451000.0251	C0461000.0251	C0501000.0251	C0501400.0251
9 x 1	90	17	7	5,5	8		C0451000.0263			
10 x 0,75	90	18	7	5,5	9,2		C0451000.0275			
10 x 1	90	18	7	5,5	9		C0451000.0276	C0461000.0276	C0501000.0276	C0501400.0276
10 x 1,25	100	22	7	5,5	8,8		C0451000.0277			
11 x 1	90	18	8	6,2	10		C0451000.0288			
12 x 1	100	18	9	7	11		C0451000.0301	C0461000.0301	C0501000.0301	C0501400.0301
12 x 1,25	100	22	9	7	10,8		C0451000.0302			
12 x 1,5	100	22	9	7	10,5		C0451000.0303	C0461000.0303	C0501000.0303	C0501400.0303
14 x 1	100	18	11	9	13		C0451000.0329			
14 x 1,25	100	22	11	9	12,8		C0451000.0330			
14 x 1,5	100	22	11	9	12,5		C0451000.0331	C0461000.0331	C0501000.0331	C0501400.0331
15 x 1	100	18	12	9	14		C0451000.0343			
16 x 1	100	18	12	9	15		C0451000.0357			
16 x 1,5	100	22	12	9	14,5		C0451000.0359	C0461000.0359	C0501000.0359	C0501400.0359
18 x 1	110	20	14	11	17		C0451000.0388			
18 x 1,5	110	25	14	11	16,5		C0451000.0390	C0461000.0390	C0501000.0390	C0501400.0390
18 x 2	125	26	14	11	16		C0451000.0391			
20 x 1	125	20	16	12	19		C0451000.0420			
20 x 1,5	125	25	16	12	18,5		C0451000.0422	C0461000.0422	C0501000.0422	C0501400.0422
20 x 2	140	27	16	12	18		C0451000.0423			
22 x 1	125	20	18	14,5	21		C0451000.0436			
22 x 1,5	125	25	18	14,5	20,5		C0451000.0438	C0461000.0438	C0501000.0438	C0501400.0438
22 x 2	140	27	18	14,5	20		C0451000.0439			
24 x 1	140	20	18	14,5	23		C0451000.0450			
24 x 1,5	140	27	18	14,5	22,5		C0451000.0452	C0461000.0452	C0501000.0452	C0501400.0452
24 x 2	140	27	18	14,5	22		C0451000.0453			
25 x 1,5	140	28	18	14,5	23,5		C0451000.0458			
26 x 1,5	140	28	18	14,5	24,5		C0451000.0464			

MF



DIN 13

DIN
374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

STEEL
鋼



ISO 2/6H

ISO 2/6H

ISO 2/6H

ISO 2/6H

HSSE

HSSE

HSSE

TIN
HSSE

R15

R15

R35

R35

C / 2-3

E / 1,5-2

C / 2-3

C / 2-3

E / 0

E / 0

E / 0

E / 0

max. 2 x d₁



max. 2,5 x d₁



P 2.1-3.1

P 2.1-3.1

P 1.1-3.1

P 1.1-3.1

N 2.2

N 2.2

M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Rekord	Rekord	Enorm	Enorm
								2D-STEEL	2D-STEEL/E	2-STEEL	2-STEEL TIN
	27	x 1,5	140	28	20	16	25,5	C0451000.0470			
	27	x 2	140	28	20	16	25	C0451000.0471			
	28	x 1,5	140	28	20	16	26,5	C0451000.0476			
	28	x 2	140	28	20	16	26	C0451000.0477			
	30	x 1,5	150	28	22	18	28,5	C0451000.0490		C0501000.0490	C0501400.0490
	30	x 2	150	28	22	18	28	C0451000.0491		C0501000.0491	C0501400.0491
	32	x 1,5	150	28	22	18	30,5	C0451000.0504		C0501000.0504	C0501400.0504
	32	x 2	150	28	22	18	30			C0501000.0505	
	33	x 1,5	160	30	25	20	31,5	C0451000.0511		C0501000.0511	C0501400.0511
	33	x 2	160	30	25	20	31	C0451000.0512		C0501000.0512	C0501400.0512
	34	x 1,5	170	30	28	22	32,5	C0451000.0518		C0501000.0518	C0501400.0518
	35	x 1,5	170	30	28	22	33,5	C0451000.0525		C0501000.0525	C0501400.0525
	36	x 1,5	170	30	28	22	34,5	C0451000.0532		C0501000.0532	C0501400.0532
	36	x 2	170	30	28	22	34	C0451000.0533		C0501000.0533	C0501400.0533
	36	x 3	200	42	28	22	33	C0451000.0534		C0501000.0534	C0501400.0534
	38	x 1,5	170	30	28	22	36,5	C0451000.0546		C0501000.0546	C0501400.0546
	39	x 1,5	170	30	32	24	37,5			C0501000.0553	
	39	x 2	170	30	32	24	37	C0451000.0554		C0501000.0554	
	40	x 1,5	170	30	32	24	38,5	C0451000.0560		C0501000.0560	C0501400.0560
	40	x 2	170	30	32	24	38	C0451000.0561		C0501000.0561	
	42	x 1,5	170	30	32	24	40,5	C0451000.0574		C0501000.0574	C0501400.0574
	42	x 2	170	30	32	24	40	C0451000.0575		C0501000.0575	C0501400.0575
	42	x 3	200	45	32	24	39	C0451000.0576		C0501000.0576	C0501400.0576
	45	x 1,5	180	32	36	29	43,5	C0451000.0595		C0501000.0595	C0501400.0595
	45	x 2	180	32	36	29	43	C0451000.0596		C0501000.0596	
	45	x 3	200	45	36	29	42	C0451000.0597		C0501000.0597	
	48	x 1,5	190	32	36	29	46,5	C0451000.0616		C0501000.0616	C0501400.0616
	48	x 2	190	32	36	29	46	C0451000.0617		C0501000.0617	C0501400.0617
	48	x 3	225	50	36	29	45	C0451000.0618		C0501000.0618	C0501400.0618
	50	x 1,5	190	32	36	29	48,5	C0451000.0630		C0501000.0630	C0501400.0630
	50	x 2	190	32	36	29	48	C0451000.0631			
	52	x 1,5	190	32	40	32	50,5	C0451000.0644		C0501000.0644	C0501400.0644
	52	x 2	190	32	40	32	50	C0451000.0645		C0501000.0645	C0501400.0645
	52	x 3	225	50	40	32	49	C0451000.0646		C0501000.0646	

Product Finder

V _c
M
MF
UNC UN-8
UNC UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

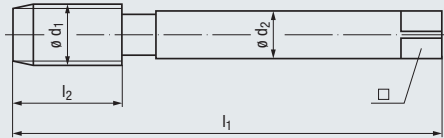


- Product Finder
- V_c
- M
- MF**
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



DIN 13

DIN
374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

max. 3 x d₁



P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 2.1-3.1 N 2.2, 2.5
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ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Rekord 2B-VA NT	Rekord 2B-VA TIN	Rekord 2B-VA GLT-1	Rekord 2B-VA NT
M 6 x 0,5	80	13	4,5	3,4	5,5		C0203000.0228	C0203100.0228	C020C300.0228	
6 x 0,75	80	13	4,5	3,4	5,2		C0203000.0229	C0203100.0229	C020C300.0229	
8 x 0,75	80	14	6	4,9	7,2		C0203000.0250	C0203100.0250	C020C300.0250	
8 x 1	90	17	6	4,9	7		C0203000.0251	C0203100.0251	C020C300.0251	C0203010.0251
9 x 1	90	17	7	5,5	8					
10 x 0,75	90	18	7	5,5	9,2					
10 x 1	90	18	7	5,5	9		C0203000.0276	C0203100.0276	C020C300.0276	C0203010.0276
10 x 1,25	100	22	7	5,5	8,8					
11 x 1	90	18	8	6,2	10					
12 x 1	100	18	9	7	11		C0203000.0301	C0203100.0301	C020C300.0301	C0203010.0301
12 x 1,25	100	22	9	7	10,8					
12 x 1,5	100	22	9	7	10,5		C0203000.0303	C0203100.0303	C020C300.0303	C0203010.0303
14 x 1	100	18	11	9	13		C0203000.0329	C0203100.0329	C020C300.0329	
14 x 1,25	100	22	11	9	12,8		C0203000.0330	C0203100.0330	C020C300.0330	
14 x 1,5	100	22	11	9	12,5		C0203000.0331	C0203100.0331	C020C300.0331	C0203010.0331
15 x 1	100	18	12	9	14					
16 x 1	100	18	12	9	15		C0203000.0357	C0203100.0357	C020C300.0357	
16 x 1,5	100	22	12	9	14,5		C0203000.0359	C0203100.0359	C020C300.0359	C0203010.0359
18 x 1	110	20	14	11	17					
18 x 1,5	110	25	14	11	16,5		C0203000.0390	C0203100.0390	C020C300.0390	C0203010.0390
18 x 2	125	26	14	11	16					
20 x 1	125	20	16	12	19		C0203000.0420	C0203100.0420	C020C300.0420	
20 x 1,5	125	25	16	12	18,5		C0203000.0422	C0203100.0422	C020C300.0422	C0203010.0422
20 x 2	140	27	16	12	18		C0203000.0423	C0203100.0423	C020C300.0423	
22 x 1	125	20	18	14,5	21					
22 x 1,5	125	25	18	14,5	20,5		C0203000.0438	C0203100.0438	C020C300.0438	
22 x 2	140	27	18	14,5	20		C0203000.0439	C0203100.0439	C020C300.0439	
24 x 1	140	20	18	14,5	23					
24 x 1,5	140	27	18	14,5	22,5		C0203000.0452	C0203100.0452	C020C300.0452	
24 x 2	140	27	18	14,5	22					
25 x 1,5	140	28	18	14,5	23,5		C0203000.0458	C0203100.0458	C020C300.0458	
26 x 1,5	140	28	18	14,5	24,5		C0203000.0464	C0203100.0464	C020C300.0464	
27 x 1,5	140	28	20	16	25,5					
27 x 2	140	28	20	16	25					
28 x 1,5	140	28	20	16	26,5		C0203000.0476	C0203100.0476	C020C300.0476	

DIN 371

DIN 2181

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VA ステンレス						INOX ステンレス	
ISO 1/4H	ISO 1/4H	ISO 3/6G	ISO 3/6G	ISO 3/6G	ISO 2/6H	ISO 2/6H	ISO 2/6H
TIN	GLT-1	NT	TIN	GLT-1	HSSE	GLT-201	GLT-201
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
B / 4-5	B / 4-5	B / 4-5	B / 4-5	B / 4-5	R35	R45	R45
E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	C / 2-3	C / 2-3	C / 2-3
max. 3 x d ₁					max. 2,5 x d ₁	max. 2,5 x d ₁	
P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 1.1-3.1	M 1.1-2.1	
Rekord 2B-VA TIN	Rekord 2B-VA GLT-1	Rekord 2B-VA NT	Rekord 2B-VA TIN	Rekord 2B-VA GLT-1	Enorm 2 VA	Enorm 2 INOX GLT-201	
					C0503000.0229	C050J300.0229	
C0203110.0251	C020C310.0251	C0203020.0251	C0203120.0251	C020C320.0251	C0503000.0251	C050J300.0251	
C0203110.0276	C020C310.0276	C0203020.0276	C0203120.0276	C020C320.0276	C0503000.0276	C050J300.0276	
C0203110.0301	C020C310.0301	C0203020.0301	C0203120.0301	C020C320.0301	C0503000.0301	C050J300.0301	
C0203110.0303	C020C310.0303	C0203020.0303	C0203120.0303	C020C320.0303	C0503000.0303	C050J300.0303	
C0203110.0331	C020C310.0331	C0203020.0331	C0203120.0331	C020C320.0331	C0503000.0331	C050J300.0331	
C0203110.0359	C020C310.0359	C0203020.0359	C0203120.0359	C020C320.0359	C0503000.0359	C050J300.0359	
C0203110.0390	C020C310.0390	C0203020.0390	C0203120.0390	C020C320.0390	C0503000.0390	C050J300.0390	
C0203110.0422	C020C310.0422	C0203020.0422	C0203120.0422	C020C320.0422	C0503000.0422	C050J300.0422	
					C0503000.0438	C050J300.0438	
					C0503000.0452	C050J300.0452	
						M 6 x 0,5	
						6 x 0,75	
						8 x 0,75	
						8 x 1	
						9 x 1	
						10 x 0,75	
						10 x 1	
						10 x 1,25	
						11 x 1	
						12 x 1	
						12 x 1,25	
						12 x 1,5	
						14 x 1	
						14 x 1,25	
						14 x 1,5	
						15 x 1	
						16 x 1	
						16 x 1,5	
						18 x 1	
						18 x 1,5	
						18 x 2	
						20 x 1	
						20 x 1,5	
						20 x 2	
						22 x 1	
						22 x 1,5	
						22 x 2	
						24 x 1	
						24 x 1,5	
						24 x 2	
						25 x 1,5	
						26 x 1,5	
						27 x 1,5	
						27 x 2	
						28 x 1,5	

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



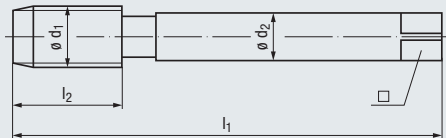
- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



MF

DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

GG
鋳鉄

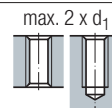
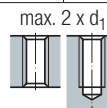


GJV
バミキュラー
鋳鉄



6HX	6HX
NT	TICN
HSSE	HSSE
C / 2-3	C / 2-3
E	E

6HX
TICN
HSSE 粉末
C / 2-3
E



K 1.1-1.2 **K 1.1-1.2**

K 1.1-4.2

M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Rekord 2A-GG NT	Rekord 2A-GG TICN	Rekord 2A-GJV PM-TICN
6 x 0,75	80	13	4,5	3,4	5,2					
8 x 0,75	80	14	6	4,9	7,2					
8 x 1	90	17	6	4,9	7					
9 x 1	90	17	7	5,5	8					
10 x 0,75	90	18	7	5,5	9,2					
10 x 1	90	18	7	5,5	9					
10 x 1,25	100	22	7	5,5	8,8					
11 x 1	90	18	8	6,2	10					
12 x 1	100	18	9	7	11					
12 x 1,25	100	22	9	7	10,8					
12 x 1,5	100	22	9	7	10,5				C010R501.0303	
14 x 1	100	18	11	9	13					
14 x 1,25	100	22	11	9	12,8					
14 x 1,5	100	22	11	9	12,5				C010R501.0331	
15 x 1	100	18	12	9	14					
16 x 1	100	18	12	9	15					
16 x 1,5	100	22	12	9	14,5				C010R501.0359	
18 x 1	110	20	14	11	17					
18 x 1,5	110	25	14	11	16,5				C010R501.0390	
18 x 2	125	26	14	11	16					
20 x 1	125	20	16	12	19					
20 x 1,5	125	25	16	12	18,5				C010R501.0422	
20 x 2	140	27	16	12	18					
22 x 1	125	20	18	14,5	21					
22 x 1,5	125	25	18	14,5	20,5					
22 x 2	140	27	18	14,5	20					
24 x 1	140	20	18	14,5	23					
24 x 1,5	140	27	18	14,5	22,5					
24 x 2	140	27	18	14,5	22					
25 x 1,5	140	28	18	14,5	23,5					
26 x 1,5	140	28	18	14,5	24,5					
27 x 1,5	140	28	20	16	25,5					
27 x 2	140	28	20	16	25					
28 x 1,5	140	28	20	16	26,5					

GJV
バミキュラー
鋳鉄

Product Finder						
V _c						
M						
MF						
UNC UN-8						
UNF UNEF						
G, Rp NPSM, NPSF						
NPT, NPTF Rc, W						
BSW, BSF						
Pg						
MJ UNJC, UNJF						
EG (STI)						
SELF-LOCK						
Tr, Tr-F Rd						
Zubehör Accessories						
					 new	 new
6HX	6HX	6HX	6HX	6HX	6HX	6HX
TICN	TICN	TICN	TICN	TICN	TICN	TICN
HSSE 粉末	HSSE 粉末	HSSE 粉末	HSSE 粉末	HSSE 粉末	超硬	超硬
C / 2-3	C / 2-3	E / 1,5-2	E / 1,5-2	E / 1,5-2	C / 2-3	E / 1,5-2
E	E	E	E	E	E	E
max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	max. 2 x d ₁ 	
K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
Rekord 2A-GJV- IKZ PM-TICN	Rekord 2A-GJV- IKZN PM-TICN	Rekord 2A-GJV/ E PM-TICN	Rekord 2A-GJV/ E- IKZ PM-TICN	Rekord 2A-GJV/ E- IKZN PM-TICN	KHM-Rekord 2A- GJV- IKZ TICN	KHM-Rekord 2A- GJV/ E- IKZ TICN
C195R501.0303	C106R501.0303	C011R501.0303	C196R501.0303	C109R501.0303	C1951P01.0303	C1961P01.0303
C195R501.0331	C106R501.0331	C011R501.0331	C196R501.0331	C109R501.0331	C1951P01.0331	C1961P01.0331
C195R501.0359	C106R501.0359	C011R501.0359	C196R501.0359	C109R501.0359	C1951P01.0359	C1961P01.0359
C195R501.0390	C106R501.0390	C011R501.0390	C196R501.0390	C109R501.0390	C1951P01.0390	C1961P01.0390
C195R501.0422	C106R501.0422	C011R501.0422	C196R501.0422	C109R501.0422	C1951P01.0422	C1961P01.0422
						M 6 x 0,5
						6 x 0,75
						8 x 0,75
						8 x 1
						9 x 1
						10 x 0,75
						10 x 1
						10 x 1,25
						11 x 1
						12 x 1
						12 x 1,25
						12 x 1,5
						14 x 1
						14 x 1,25
						14 x 1,5
						15 x 1
						16 x 1
						16 x 1,5
						18 x 1
						18 x 1,5
						18 x 2
						20 x 1
						20 x 1,5
						20 x 2
						22 x 1
						22 x 1,5
						22 x 2
						24 x 1
						24 x 1,5
						24 x 2
						25 x 1,5
						26 x 1,5
						27 x 1,5
						27 x 2
						28 x 1,5

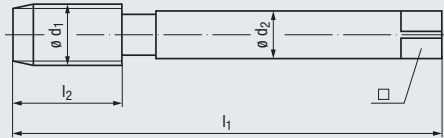
1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

- Product Finder
- V_c
- M
- MF**
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

AL
アルミ合金
展伸材



$l_2 \approx 10 \times P$

H
高強度鋼



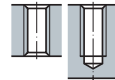
ISO 2/6H
HSSE
R35
C / 2-3
E / O

6HX	6HX
NT	TICN
HSSE	HSSE
C / 2-3	C / 2-3
E / O / P	E / O / P

max. 2,5 x d₁



max. 2 x d₁



N 1.4

K 1.1-4.2	K 1.1-4.2
N 4.1	N 1.5-1.6, 2.6
	N 4.1, 5.1






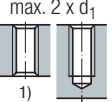
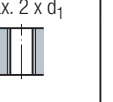
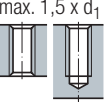


ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Enorm 2-AL	Rekord 2A-H NT	Rekord 2A-H TICN
M 6 x	0,5	80	13	4,5	3,4	5,5			
6 x	0,75	80	13	4,5	3,4	5,2			
8 x	0,75	80	14	6	4,9	7,2		C0100501.0250	
8 x	1	90	17	6	4,9	7		C0100501.0251	C0109101.0251
9 x	1	90	17	7	5,5	8		C0100501.0263	
10 x	0,75	90	18	7	5,5	9,2			
10 x	1	90	18	7	5,5	9		C0100501.0276	C0109101.0276
10 x	1,25	100	22	7	5,5	8,8		C0100501.0277	C0109101.0277
11 x	1	90	18	8	6,2	10			
12 x	1	100	18	9	7	11		C0100501.0301	C0109101.0301
12 x	1,25	100	22	9	7	10,8		C0100501.0302	
12 x	1,5	100	22	9	7	10,5 2)	C0504500.0303	C0100501.0303	C0109101.0303
14 x	1	100	18	11	9	13			
14 x	1,25	100	22	11	9	12,8		C0100501.0330	
14 x	1,5	100	22	11	9	12,5 2)	C0504500.0331	C0100501.0331	C0109101.0331
15 x	1	100	18	12	9	14		C0100501.0343	
16 x	1	100	18	12	9	15		C0100501.0357	
16 x	1,5	100	22	12	9	14,5 2)	C0504500.0359	C0100501.0359	C0109101.0359
18 x	1	110	20	14	11	17			
18 x	1,5	110	25	14	11	16,5		C0100501.0390	C0109101.0390
18 x	2	125	26	14	11	16		C0100501.0391	
20 x	1	125	20	16	12	19		C0100501.0420	
20 x	1,5	125	25	16	12	18,5		C0100501.0422	C0109101.0422
20 x	2	140	27	16	12	18			
22 x	1	125	20	18	14,5	21			
22 x	1,5	125	25	18	14,5	20,5		C0100501.0438	C0109101.0438
22 x	2	140	27	18	14,5	20			
24 x	1	140	20	18	14,5	23		C0100501.0450	
24 x	1,5	140	27	18	14,5	22,5		C0100501.0452	C0109101.0452
24 x	2	140	27	18	14,5	22		C0100501.0453	

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2) Rekord 2A-HCUT-PM-TICN 使用時は下穴径を0,2 mm 大きくしてください
Increase drill diameter for taps Rekord 2A-HCUT-PM-TICN by 0.2 mm

H 高強度鋼				HCUT 高硬度鋼			
							
6HX NT HSSE C / 2-3 E / O	6HX TICN HSSE C / 2-3 E / O	6HX TICN HSSE C / 2-3 E / O	6HX 超硬 C / 2-3 E / O	6HX TICN HSSE 粉末 C / 2-3 O / P			
max. 2 x d ₁ 		max. 2 x d ₁ 		max. 1,5 x d ₁ 			
K 1.1-4.2 N 4.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1, 5.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1, 5.1	K 1.1-4.2 N 1.5-1.6 N 2.6-2.8 N 4.1, 4.3-4.4 N 5.1-5.2	H 1.1-1.2			
Rekord 2A-H-1KZ NT	Rekord 2A-H-1KZ TICN	Rekord 2A-H-1KZN TICN	KHM-Rekord 2A-H-1KZ	Rekord 2A-HCUT PM-TICN			
							M 6 x 0,5 6 x 0,75 8 x 0,75 8 x 1 9 x 1 10 x 0,75 10 x 1 10 x 1,25 11 x 1 12 x 1 12 x 1,25 12 x 1,5 14 x 1 14 x 1,25 14 x 1,5 15 x 1 16 x 1 16 x 1,5 18 x 1 18 x 1,5 18 x 2 20 x 1 20 x 1,5 20 x 2 22 x 1 22 x 1,5 22 x 2 24 x 1 24 x 1,5 24 x 2
C1950501.0303	C1959101.0303	C1069101.0303	C1950901.0303	C010J901.0303			
C1950501.0331	C1959101.0331	C1069101.0331	C1950901.0331	C010J901.0331			
C1950501.0359	C1959101.0359	C1069101.0359	C1950901.0359	C010J901.0359			
C1950501.0422	C1959101.0422	C1069101.0422	C1950901.0422				
			 163	 164			

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



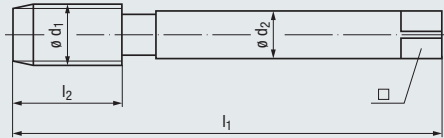
1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



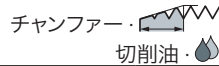
DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material



ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material ▶ 78

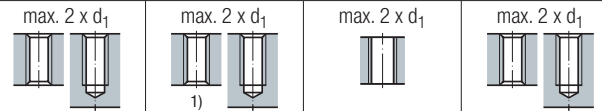
	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□	
M	6 x 0,5	80	5	4,5	3,4	5,5	
	6 x 0,75	80	8	4,5	3,4	5,2	
	8 x 0,75	80	8	6	4,9	7,2	
	8 x 1	90	10	6	4,9	7	
	9 x 1	90	10	7	5,5	8	
	10 x 0,75	90	10	7	5,5	9,2	
	10 x 1	90	10	7	5,5	9	
	10 x 1,25	100	16	7	5,5	8,8	
	11 x 1	90	11	8	6,2	10	
	12 x 1	100	11	9	7	11	
	12 x 1,25	100	15	9	7	10,8	
	12 x 1,5	100	15	9	7	10,5	
	14 x 1	100	11	11	9	13	
	14 x 1,25	100	15	11	9	12,8	
	14 x 1,5	100	15	11	9	12,5	
	15 x 1	100	12	12	9	14	
	16 x 1	100	12	12	9	15	
	16 x 1,5	100	15	12	9	14,5	
	18 x 1	110	13	14	11	17	
	18 x 1,5	110	17	14	11	16,5	
	18 x 2	125	20	14	11	16	
	20 x 1	125	14	16	12	19	
	20 x 1,5	125	17	16	12	18,5	
	20 x 2	140	20	16	12	18	
22 x 1	125	14	18	14,5	21		
22 x 1,5	125	17	18	14,5	20,5		
22 x 2	140	20	18	14,5	20		
24 x 1	140	15	18	14,5	23		
24 x 1,5	140	20	18	14,5	22,5		
24 x 2	140	20	18	14,5	22		



Z
シングロ加工



6HX	6HX	6HX	6HX
TICN	TICN	TICN	TICN
HSSE	HSSE	HSSE	HSSE
C / 2-3	C / 2-3	C / 2-3	E / 1,5-2
E / 0 / P	E / 0	E / 0	E / 0 / P



K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
N 1.5-1.6, 2.6	N 1.5-1.6, 2.6	N 1.5-1.6, 2.6	N 1.5-1.6, 2.6
N 4.1	N 4.1	N 4.1	N 4.1

Rekord 2A-Z TICN	Rekord 2A-Z-1KZ TICN	Rekord 2A-Z-1KZN TICN	Rekord 2A-Z/E TICN
C0109401.0251	C1959401.0251	C1069401.0251	C0119401.0251
C0109401.0276 C0109401.0277	C1959401.0276 C1959401.0277	C1069401.0276 C1069401.0277	C0119401.0276 C0119401.0277
C0109401.0303	C1959401.0303	C1069401.0303	C0119401.0303
C0109401.0331	C1959401.0331	C1069401.0331	C0119401.0331
C0109401.0359	C1959401.0359	C1069401.0359	C0119401.0359

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Z
シングル口加工

Image 1	Image 2	Image 3	Image 4	Image 5	Image 6	Image 7	Image 8
6HX TICN HSSE	6HX TICN HSSE	6HX TIN-70 HSSE 粉末	6HX GLT-1 HSSE 粉末	6HX TIN-70 HSSE 粉末	6HX GLT-1 HSSE 粉末	6HX TIN HSSE R15	6HX TIN HSSE R15
E / 1,5-2 E / 0	E / 1,5-2 E / 0	B / 4-5 E / 0 / P	B / 4-5 E / 0 / P	B / 4-5 E / 0	B / 4-5 E / 0	C / 2-3 E / 0 / P	C / 2-3 E / 0
max. 2 x d ₁ 	max. 2 x d ₁ 	max. 3 x d ₁ 				max. 2 x d ₁ 	
K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1	P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3	P 2.1-5.1	P 1.1-5.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1, 2.2-2.3	P 3.1-5.1 N 2.4-2.5	P 3.1-5.1 N 2.4-2.5
Rekord 2A-Z/E-IKZ TICN	Rekord 2A-Z/E-IKZN TICN	Rekord 2B-Z PM-TIN-70	Rekord 2B-Z PM-GLT-1	Rekord 2B-Z-IKZN PM-TIN-70	Rekord 2B-Z-IKZN PM-GLT-1	Rekord 2D-Z TIN	Rekord 2D-Z-IKZ TIN
C1969401.0251	C1099401.0251	C0208F01.0251	C020A601.0251	C1088F01.0251	C108A601.0251	C0453701.0251	C0963701.0251
C1969401.0276	C1099401.0276	C0208F01.0276	C020A601.0276	C1088F01.0276	C108A601.0276	C0453701.0276	C0963701.0276
C1969401.0277	C1099401.0277	C0208F01.0277	C020A601.0277	C1088F01.0277	C108A601.0277	C0453701.0277	C0963701.0277
C1969401.0303	C1099401.0303	C0208F01.0301 C0208F01.0302 C0208F01.0303	C020A601.0301 C020A601.0302 C020A601.0303	C1088F01.0301 C1088F01.0302 C1088F01.0303	C108A601.0301 C108A601.0302 C108A601.0303	C0453701.0303	C0963701.0303
C1969401.0331	C1099401.0331	C0208F01.0331	C020A601.0331	C1088F01.0331	C108A601.0331		C0963701.0331
C1969401.0359	C1099401.0359	C0208F01.0359	C020A601.0359	C1088F01.0359	C108A601.0359		C0963701.0359
		C0208F01.0390	C020A601.0390	C1088F01.0390	C108A601.0390		
		C0208F01.0422	C020A601.0422	C1088F01.0422	C108A601.0422		
		166	166				

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



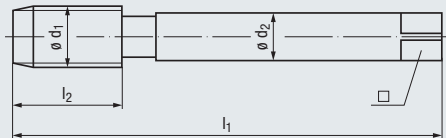
M	6 x 0,5
	6 x 0,75
	8 x 0,75
	8 x 1
	9 x 1
	10 x 0,75
	10 x 1
	10 x 1,25
	11 x 1
	12 x 1
	12 x 1,25
	12 x 1,5
	14 x 1
	14 x 1,25
	14 x 1,5
	15 x 1
	16 x 1
	16 x 1,5
	18 x 1
	18 x 1,5
	18 x 2
	20 x 1
	20 x 1,5
	20 x 2
	22 x 1
	22 x 1,5
	22 x 2
	24 x 1
	24 x 1,5
	24 x 2

- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

Z シングロ加工



6HX	6HX	6HX
TIN	TIN	TIN
HSSE	HSSE	HSSE
R15	R15	R15
E / 1,5-2	C / 2-3	E / 1,5-2
E / 0	E / 0	E / 0

ねじ深さと穴形状
Thread depth and hole type

max. 2 x d₁

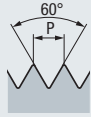


アプリケーション - 被削材
Applications - material 78

P 3.1-5.1	P 3.1-5.1	P 3.1-5.1
N 2.4-2.5	N 2.4-2.5	N 2.4-2.5

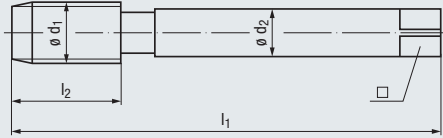
M	∅ d ₁ mm	P mm	l ₁	l ₂	∅ d ₂	□		Rekord	Rekord	Rekord
								2D-Z/E-IKZ TIN	2D-Z-BF IKZ-TIN	2D-Z/E-BF IKZ-TIN
	6	x 0,5	80	5	4,5	3,4	5,5			
	6	x 0,75	80	8	4,5	3,4	5,2			
	8	x 0,75	80	8	6	4,9	7,2			
	8	x 1	90	10	6	4,9	7	C0983701.0251	C4253701.0251	C4053701.0251
	9	x 1	90	10	7	5,5	8			
	10	x 0,75	90	10	7	5,5	9,2			
	10	x 1	90	10	7	5,5	9	C0983701.0276	C4253701.0276	C4053701.0276
	10	x 1,25	100	16	7	5,5	8,8	C0983701.0277	C4253701.0277	C4053701.0277
	11	x 1	90	11	8	6,2	10			
	12	x 1	100	11	9	7	11			
	12	x 1,25	100	15	9	7	10,8			
	12	x 1,5	100	15	9	7	10,5	C0983701.0303	C4253701.0303	C4053701.0303
	14	x 1	100	11	11	9	13			
	14	x 1,25	100	15	11	9	12,8			
	14	x 1,5	100	15	11	9	12,5	C0983701.0331	C4253701.0331	C4053701.0331
	15	x 1	100	12	12	9	14			
	16	x 1	100	12	12	9	15			
	16	x 1,5	100	15	12	9	14,5	C0983701.0359	C4253701.0359	C4053701.0359
	18	x 1	110	13	14	11	17			
	18	x 1,5	110	17	14	11	16,5			
	18	x 2	125	20	14	11	16			
	20	x 1	125	14	16	12	19			
	20	x 1,5	125	17	16	12	18,5			
	20	x 2	140	20	16	12	18			
	22	x 1	125	14	18	14,5	21			
	22	x 1,5	125	17	18	14,5	20,5			
	22	x 2	140	20	18	14,5	20			
	24	x 1	140	15	18	14,5	23			
	24	x 1,5	140	20	18	14,5	22,5			
	24	x 2	140	20	18	14,5	22			

MF



DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファアー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

max. 3 x d_1



P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-3.1
M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	
K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	
N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	
N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	
S 1.1	S 1.1	S 1.1	

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□			Enorm	Enorm	Enorm	Enorm
									2-Z PM-GLT-1	2-Z-1KZ PM-GLT-1	2-Z/E PM-GLT-1	2-Z
M	4	x 0,5	63	5	2,8	2,1	3,5					
	5	x 0,5	70	5	3,5	2,7	4,5					
	6	x 0,5	80	5	4,5	3,4	5,5					
	6	x 0,75	80	8	4,5	3,4	5,2	C616A601.0229	C591A601.0229	C498A601.0229	C0503500.0229	
	8	x 0,75	80	8	6	4,9	7,2					C0503500.0250
	8	x 1	90	10	6	4,9	7	C616A601.0251	C591A601.0251	C498A601.0251	C0503500.0251	
	9	x 1	90	10	7	5,5	8					C0503500.0263
	10	x 0,75	90	10	7	5,5	9,2					C0503500.0275
	10	x 1	90	10	7	5,5	9	C616A601.0276	C591A601.0276	C498A601.0276	C0503500.0276	
	10	x 1,25	100	16	7	5,5	8,8	C616A601.0277	C591A601.0277	C498A601.0277	C0503500.0277	
	11	x 1	90	11	8	6,2	10					C0503500.0288
	12	x 1	100	11	9	7	11	C616A601.0301	C591A601.0301	C498A601.0301	C0503500.0301	
	12	x 1,25	100	15	9	7	10,8	C616A601.0302	C591A601.0302	C498A601.0302	C0503500.0302	
	12	x 1,5	100	15	9	7	10,5	C616A601.0303	C591A601.0303	C498A601.0303	C0503500.0303	
	14	x 1	100	11	11	9	13					C0503500.0329
	14	x 1,25	100	15	11	9	12,8					C0503500.0330
	14	x 1,5	100	15	11	9	12,5	C616A601.0331	C591A601.0331	C498A601.0331	C0503500.0331	
	15	x 1	100	12	12	9	14					C0503500.0343
	16	x 1	100	12	12	9	15					C0503500.0357
	16	x 1,5	100	15	12	9	14,5	C616A601.0359	C591A601.0359	C498A601.0359	C0503500.0359	
	18	x 1	110	13	14	11	17					C0503500.0388
	18	x 1,5	110	17	14	11	16,5	C616A601.0390	C591A601.0390	C498A601.0390	C0503500.0390	
	18	x 2	125	20	14	11	16					C0503500.0391
	20	x 1	125	14	16	12	19					C0503500.0420
	20	x 1,5	125	17	16	12	18,5	C616A601.0422	C591A601.0422	C498A601.0422	C0503500.0422	
	20	x 2	140	20	16	12	18					C0503500.0423
	22	x 1	125	14	18	14,5	21					C0503500.0436
	22	x 1,5	125	17	18	14,5	20,5	C616A601.0438	C591A601.0438	C498A601.0438	C0503500.0438	
	22	x 2	140	20	18	14,5	20					C0503500.0439
	24	x 1	140	15	18	14,5	23					C0503500.0450
	24	x 1,5	140	20	18	14,5	22,5	C616A601.0452	C591A601.0452	C498A601.0452	C0503500.0452	
	24	x 2	140	20	18	14,5	22					C0503500.0453
	25	x 1,5	140	20	18	14,5	23,5					C0503500.0458
	26	x 1,5	140	20	18	14,5	24,5					C0503500.0464

DIN 371

DIN 2181

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- Product Finder
- V_c
- M
- MF**
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

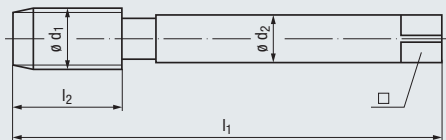


- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material



Z シングロ加工



NEW



NEW



NEW



NEW



6HX	6HX	6HX	ISO 2/6H
GLT-1	GLT-1	GLT-1	
HSSE 粉末	HSSE 粉末	HSSE 粉末	HSSE
R45	R45	R45	R45
C / 2-3	C / 2-3	E / 1,5-2	C / 2-3
E / 0 / P	E / 0	E / 0 / P	E / 0 / P

max. 3 x d₁



P 1.1-4.1	P 1.1-4.1	P 1.1-4.1	P 1.1-3.1
M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	
K 1.1-3.2	K 1.1-3.2	K 1.1-3.2	
N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	N 1.4, 2.1-2.2	
N 2.4-2.5	N 2.4-2.5	N 2.4-2.5	
S 1.1	S 1.1	S 1.1	

M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Enorm 2-Z PM-GLT-1	Enorm 2-Z-1KZ PM-GLT-1	Enorm 2-Z/E PM-GLT-1	Enorm 2-Z
	27	x 1,5	140	20	20	16	25,5				C0503500.0470
	27	x 2	140	20	20	16	25				C0503500.0471
	28	x 1,5	140	20	20	16	26,5				C0503500.0476
	28	x 2	140	20	20	16	26				C0503500.0477
	30	x 1,5	150	22	22	18	28,5				
	30	x 2	150	22	22	18	28				
	32	x 1,5	150	22	22	18	30,5				
	32	x 2	150	22	22	18	30				
	33	x 1,5	160	24	25	20	31,5				
	33	x 2	160	24	25	20	31				
	34	x 1,5	170	24	28	22	32,5				
	35	x 1,5	170	24	28	22	33,5				
	36	x 1,5	170	24	28	22	34,5				
	36	x 2	170	24	28	22	34				
	36	x 3	200	30	28	22	33				
	38	x 1,5	170	24	28	22	36,5				
	39	x 1,5	170	25	32	24	37,5				
	39	x 2	170	25	32	24	37				
	40	x 1,5	170	25	32	24	38,5				
	40	x 2	170	25	32	24	38				
	42	x 1,5	170	25	32	24	40,5				
	42	x 2	170	25	32	24	40				
	42	x 3	200	30	32	24	39				
	45	x 1,5	180	27	36	29	43,5				
	45	x 2	180	27	36	29	43				
	45	x 3	200	30	36	29	42				
	48	x 1,5	190	27	36	29	46,5				
	48	x 2	190	27	36	29	46				
	48	x 3	225	33	36	29	45				
	50	x 1,5	190	27	36	29	48,5				
	50	x 2	190	27	36	29	48				
	52	x 1,5	190	27	40	32	50,5				
	52	x 2	190	27	40	32	50				
	52	x 3	225	33	40	32	49				

DIN 371

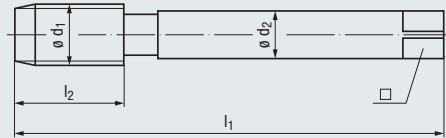
DIN 2181

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DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファアー · 切削油 ·

Z シングロ加工



ISO 2/6H GLT-1 HSSE R45 C / 2-3 E / O / P	ISO 2/6H HSSE R45 E / 1,5-2 E / O / P	ISO 2/6H TIN HSSE R45 E / 1,5-2 E / O / P	ISO 2/6H GLT-1 HSSE R45 E / 1,5-2 E / O / P
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Product Finder

V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

ねじ深さと穴形状
Thread depth and hole type

max. 3 x d₁



アプリケーション - 被削材
Applications - material 78

P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1
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ϕd_1 mm	P mm	l_1	l_2	ϕd_2			Enorm 2-Z GLT-1	Enorm 2-Z/E	Enorm 2-Z/E TIN	Enorm 2-Z/E GLT-1
M 8 x 0,75	80	8	6	4,9	7,2					
8 x 1	90	10	6	4,9	7		C050C400.0251	C0513500.0250 C0513500.0251	C0513700.0251	C051C400.0251
9 x 1	90	10	7	5,5	8					
10 x 0,75	90	10	7	5,5	9,2					
10 x 1	90	10	7	5,5	9		C050C400.0276	C0513500.0276 C0513500.0277	C0513700.0276	C051C400.0276
10 x 1,25	100	16	7	5,5	8,8					
11 x 1	90	11	8	6,2	10					
12 x 1	100	11	9	7	11		C050C400.0301	C0513500.0301 C0513500.0302	C0513700.0301 C0513700.0302	C051C400.0301 C051C400.0302
12 x 1,25	100	15	9	7	10,8					
12 x 1,5	100	15	9	7	10,5		C050C400.0303	C0513500.0303 C0513500.0329	C0513700.0303	C051C400.0303
14 x 1	100	11	11	9	13					
14 x 1,25	100	15	11	9	12,8					
14 x 1,5	100	15	11	9	12,5		C050C400.0331	C0513500.0331 C0513500.0343 C0513500.0357	C0513700.0331	C051C400.0331
15 x 1	100	12	12	9	14					
16 x 1	100	12	12	9	15					
16 x 1,5	100	15	12	9	14,5		C050C400.0359	C0513500.0359 C0513500.0388	C0513700.0359	C051C400.0359
18 x 1	110	13	14	11	17					
18 x 1,5	110	17	14	11	16,5		C050C400.0390	C0513500.0390	C0513700.0390	C051C400.0390
18 x 2	125	20	14	11	16					
20 x 1	125	14	16	12	19			C0513500.0420		
20 x 1,5	125	17	16	12	18,5		C050C400.0422	C0513500.0422	C0513700.0422	C051C400.0422
20 x 2	140	20	16	12	18					
22 x 1	125	14	18	14,5	21					
22 x 1,5	125	17	18	14,5	20,5			C0513500.0438	C0513700.0438	C051C400.0438
22 x 2	140	20	18	14,5	20					
24 x 1	140	15	18	14,5	23					
24 x 1,5	140	20	18	14,5	22,5			C0513500.0452	C0513700.0452	C051C400.0452
24 x 2	140	20	18	14,5	22		C050C400.0453			
25 x 1,5	140	20	18	14,5	23,5					
26 x 1,5	140	20	18	14,5	24,5			C0513500.0464	C0513700.0464	C051C400.0464
27 x 1,5	140	20	20	16	25,5					
27 x 2	140	20	20	16	25					
28 x 1,5	140	20	20	16	26,5			C0513500.0476		
28 x 2	140	20	20	16	26					
30 x 1,5	150	22	22	18	28,5			C0513500.0490		

DIN 371
DIN 2181

166 167 167

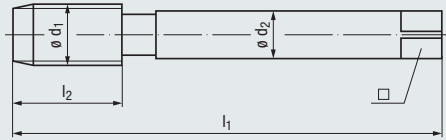
- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



MF

DIN 13

DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

Z
シンク口加工



ISO 2/6H	ISO 2/6H	ISO 2/6H	ISO 1/4H
HSSE	TIN	GLT-1	HSSE
R45	HSSE	HSSE	HSSE
E / 1,5-2	R45	R45	R45
E / 0	E / 1,5-2	E / 1,5-2	C / 2-3
	E / 0	E / 0	E / 0 / P

max. 3 x d₁



P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1
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M	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Enorm 2-Z/E-IKZ	Enorm 2-Z/E-IKZ TIN	Enorm 2-Z/E-IKZ GLT-1	Enorm 2-Z
8 x 1	90	10	6	4,9	7						
9 x 1	90	10	7	5,5	8						
10 x 0,75	90	10	7	5,5	9,2						
10 x 1	90	10	7	5,5	9		C0973500.0276				C0503510.0276
10 x 1,25	100	16	7	5,5	8,8						
11 x 1	90	11	8	6,2	10						
12 x 1	100	11	9	7	11						C0503510.0301
12 x 1,25	100	15	9	7	10,8						
12 x 1,5	100	15	9	7	10,5		C0973500.0303	C0973700.0303	C097C400.0303		C0503510.0303
14 x 1	100	11	11	9	13						
14 x 1,25	100	15	11	9	12,8						
14 x 1,5	100	15	11	9	12,5		C0973500.0331	C0973700.0331	C097C400.0331		C0503510.0331
15 x 1	100	12	12	9	14						
16 x 1	100	12	12	9	15						
16 x 1,5	100	15	12	9	14,5		C0973500.0359	C0973700.0359	C097C400.0359		C0503510.0359
18 x 1	110	13	14	11	17						
18 x 1,5	110	17	14	11	16,5						C0503510.0390
18 x 2	125	20	14	11	16						
20 x 1	125	14	16	12	19						
20 x 1,5	125	17	16	12	18,5		C0973500.0422	C0973700.0422	C097C400.0422		C0503510.0422
20 x 2	140	20	16	12	18						
22 x 1	125	14	18	14,5	21						
22 x 1,5	125	17	18	14,5	20,5						C0503510.0438
22 x 2	140	20	18	14,5	20						
24 x 1	140	15	18	14,5	23						
24 x 1,5	140	20	18	14,5	22,5						C0503510.0452
24 x 2	140	20	18	14,5	22						
25 x 1,5	140	20	18	14,5	23,5						
26 x 1,5	140	20	18	14,5	24,5						
27 x 1,5	140	20	20	16	25,5						
27 x 2	140	20	20	16	25						
28 x 1,5	140	20	20	16	26,5						
28 x 2	140	20	20	16	26						
30 x 1,5	150	22	22	18	28,5						

DIN 371

DIN 2181

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Z
シンク口加工



new



new



new



ISO 3/6G	ISO 3/6G	ISO 3/6G	ISO 2/6H	ISO 2/6H
HSSE	TIN HSSE	GLT-1 HSSE	HSSE	GLT-1 HSSE
R45	R45	R45	左ねじ, L45	左ねじ, L45
E / 1,5-2	E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3
E / O / P	E / O / P	E / O / P	E / O / P	E / O / P

max. 3 x d₁



P 1.1-3.1	P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1
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Enorm 2-Z/E	Enorm 2-Z/E TIN	Enorm 2-Z/E GLT-1	Enorm 2-Z-LH	Enorm 2-Z-LH GLT-1
C0513520.0250 C0513520.0251	C0513720.0250 C0513720.0251	C051C420.0250 C051C420.0251	C0503550.0251	C050C450.0251
C0513520.0276 C0513520.0277 C0513520.0288	C0513720.0276	C051C420.0276	C0503550.0276	C050C450.0276
C0513520.0301 C0513520.0302 C0513520.0303 C0513520.0329	C0513720.0301 C0513720.0303	C051C420.0301 C051C420.0303	C0503550.0301 C0503550.0302 C0503550.0303 C0503550.0329	C050C450.0301 C050C450.0303
C0513520.0331 C0513520.0357 C0513520.0359 C0513520.0388 C0513520.0390	C0513720.0331 C0513720.0359 C0513720.0390	C051C420.0331 C051C420.0359 C051C420.0390	C0503550.0331 C0503550.0357 C0503550.0359 C0503550.0390	C050C450.0331 C050C450.0359 C050C450.0390
C0513520.0420 C0513520.0422	C0513720.0422	C051C420.0422	C0503550.0422	C050C450.0422
C0513520.0436 C0513520.0438				
C0513520.0450 C0513520.0452				
C0513520.0464				
C0513520.0476				
C0513520.0490				

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Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

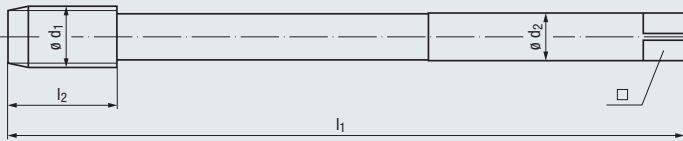


- Product Finder
- V_c
- M
- MF**
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



DIN 13

ねじ深さ 3 x d₁ までのロングフルート
With long flutes and long shank for thread depths up to max. 3 x d₁



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		Rekord 2A-Z-1KZ-LF3 TICN	Rekord 2D-Z-1KZ-LF3 TIN	Rekord 2D-Z-BF-1KZ-LF3 TIN
M 24	x 2	215	20	18	14,5	22	C0579401.0453	C4963701.0453	C4973701.0453
30	x 2	240	22	22	18	28	C0579401.0491	C4963701.0491	C4973701.0491
36	x 3	270	30	28	22	33	C0579401.0534	C4963701.0534	C4973701.0534

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Z
シングロ加工



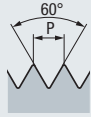
6HX TICN HSSE	6HX TIN HSSE	6HX TIN HSSE
C / 2-3 E / O	C / 2-3 E / O	C / 2-3 E / O



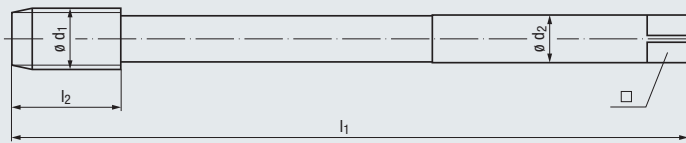
P 3.1-4.1 K 1.1-4.2	P 3.1-5.1 N 2.4-2.5	P 3.1-5.1 N 2.4-2.5
--------------------------------------	--------------------------------------	--------------------------------------

MF

DIN 13



ねじ深さ 4 x d₁ までのロングフルート
With long flutes and long shank for thread depths up to max. 4 x d₁



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

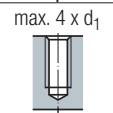
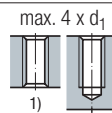
	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□	
M	24	x 2	240	20	18	14,5	22
	30	x 2	270	22	22	18	28
	36	x 3	310	30	28	22	33

1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication

Z
シンクロ加工



6HX	6HX	6HX
TICN	TIN	TIN
HSSE	HSSE	HSSE
R15	R15	R15
C / 2-3	C / 2-3	C / 2-3
E / O	E / O	E / O



P 3.1-4.1	P 3.1-5.1	P 3.1-5.1
K 1.1-4.2	N 2.4-2.5	N 2.4-2.5

Rekord 2A-Z-1KZ-LF4 TICN	Rekord 2D-Z-1KZ-LF4 TIN	Rekord 2D-Z-BF-1KZ-LF4 TIN
C0539401.0453	C4283701.0453	C4063701.0453
C0539401.0491	C4283701.0491	C4063701.0491
C0539401.0534	C4283701.0534	C4063701.0534

Product Finder

V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

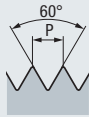


大径タップ加工用ソフトシンクロは
621, 630 ページをご覧ください。

Collet holders of our Softsynchro®
series for the synchronous production of
large threads, see pages 621 and 630

- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

MF



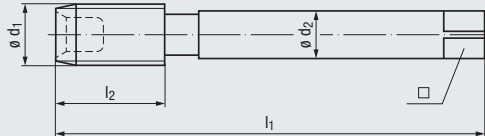
DIN 13

DIN 374

VA
ステンレス



切りくずを収納可能なホロー形状
With internal chip collector



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

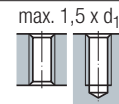
6HX
NE2
HSSE

6HX
TIN
HSSE

C / 2-3
P / 0 1)

C / 2-3
P / 0 1)

ねじ深さと穴形状
Thread depth and hole type



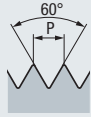
アプリケーション - 被削材
Applications - material ▶▶ 78

P 1.1-3.1
K 1.1-4.2

P 1.1-3.1
K 1.1-4.2

M	ϕd_1 mm	x	P mm	l_1	l_2	ϕd_2	□		Robust	Robust
									2X-VA NE2	2X-VA TIN
	20	x	1,5	125	25	16	12	18,5	C0803001.0422	C0803101.0422
	22	x	1,5	125	25	18	14,5	20,5	C0803001.0438	C0803101.0438
	24	x	1,5	140	27	18	14,5	22,5	C0803001.0452	C0803101.0452
	24	x	2	140	27	18	14,5	22	C0803001.0453	C0803101.0453
	27	x	1,5	140	28	20	16	25,5	C0803001.0470	C0803101.0470
	27	x	2	140	28	20	16	25	C0803001.0471	C0803101.0471
	30	x	1,5	150	28	22	18	28,5	C0803001.0490	C0803101.0490
	33	x	1,5	160	30	25	20	31,5	C0803001.0511	C0803101.0511
	33	x	2	160	30	25	20	31	C0803001.0512	C0803101.0512
	36	x	1,5	170	30	28	22	34,5	C0803001.0532	C0803101.0532
	36	x	2	170	30	28	22	34	C0803001.0533	C0803101.0533
	36	x	3	200	42	28	22	33	C0803001.0534	C0803101.0534
	38	x	1,5	170	30	28	22	36,5	C0803001.0546	C0803101.0546
	39	x	3	200	42	32	24	36	C0803001.0555	C0803101.0555
	40	x	2	170	30	32	24	38	C0803001.0561	C0803101.0561
	42	x	1,5	170	30	32	24	40,5	C0803001.0574	C0803101.0574
	42	x	2	170	30	32	24	40	C0803001.0575	C0803101.0575
	42	x	3	200	45	32	24	39	C0803001.0576	C0803101.0576
	45	x	3	200	45	36	29	42	C0803001.0597	C0803101.0597
	48	x	1,5	190	32	36	29	46,5	C0803001.0616	C0803101.0616
	48	x	2	190	32	36	29	46	C0803001.0617	C0803101.0617
	48	x	3	225	50	36	29	45	C0803001.0618	C0803101.0618
	52	x	3	225	50	40	32	49	C0803001.0646	C0803101.0646
	56	x	3	225	50	40	32	53	C0803001.0661	C0803101.0661
	56	x	4	250	60	40	32	52	C0803001.0662	C0803101.0662
	60	x	4	280	60	45	35	56	C0803001.0672	C0803101.0672
	64	x	3	275	55	50	39	61	C0803001.0681	C0803101.0681
	64	x	4	315	65	50	39	60	C0803001.0682	C0803101.0682

MF



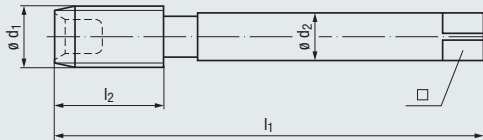
DIN 13

DIN 374

VA
ステンレス



切りくずを収納可能なホロー形状
With internal chip collector



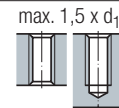
技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファー・ 切削油・

6HX	6HX
NE2	TIN
HSSE	HSSE
C / 2-3	C / 2-3
P / 0 1)	P / 0 1)

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

P 1.1-3.1	P 1.1-3.1
K 1.1-4.2	K 1.1-4.2

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Robust 2X-VA NE2	Robust 2X-VA TIN
M	68	x 4	315	65	50	39	64	C0803001.0692	C0803101.0692
	70	x 3	275	55	50	39	67	C0803001.0696	C0803101.0696
	70	x 4	340	65	50	39	66	C0803001.0697	C0803101.0697
	72	x 3	275	55	50	39	69	C0803001.0702	C0803101.0702
	72	x 4	340	65	50	39	68	C0803001.0703	C0803101.0703
	72	x 6	340	80	50	39	66	C0803001.0704	C0803101.0704
	76	x 3	275	55	50	39	73	C0803001.0714	C0803101.0714
	76	x 4	340	65	50	39	72	C0803001.0715	C0803101.0715
	76	x 6	340	80	50	39	70	C0803001.0716	C0803101.0716
	80	x 4	360	65	50	39	76	C0803001.0727	C0803101.0727
	80	x 6	360	80	50	39	74	C0803001.0728	C0803101.0728
	85	x 3	325	60	50	39	82	C0803001.0736	C0803101.0736
	85	x 4	380	70	50	39	81	C0803001.0737	C0803101.0737
	90	x 3	325	60	50	39	87	C0803001.0746	C0803101.0746
	90	x 4	380	70	50	39	86	C0803001.0747	C0803101.0747
	90	x 6	380	80	50	39	84	C0803001.0748	C0803101.0748
	95	x 6	400	85	56	44	89	C0803001.0758	C0803101.0758
	100	x 4	400	70	56	44	96	C0803001.0767	C0803101.0767
	100	x 6	400	85	56	44	94	C0803001.0768	C0803101.0768
	110	x 6	400	85	56	44	104	C0803001.0788	C0803101.0788
	115	x 3	350	65	56	44	112	C0803001.0791	C0803101.0791
	120	x 4	400	75	56	44	116	C0803001.0797	C0803101.0797
	120	x 6	400	90	56	44	114	C0803001.0798	C0803101.0798

1) 切削油はペーストのご使用を推奨します。タップと下穴に十分な量を塗布してください。オイルは立型の機械で止まり穴の場合に限ってご使用頂けますが、その際は下穴にオイルを満たした状態で加工を行ってください。
If possible, use paste lubrication, coating both the tool and the walls of the drilled hole.
Lubrication with oil is possible only in the vertical machining of blind holes, if the hole is entirely filled with oil.

Product Finder

V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



- Product Finder
- V_c
- M
- MF**
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



DIN 13

DIN
374

VA
ステンレス



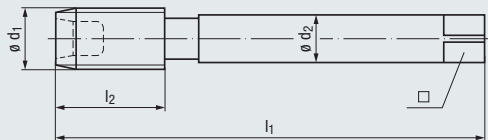
new



new



切りくずを収納可能なホロー形状
With internal chip collector



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

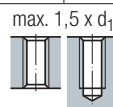
6HX
NE2
HSSE

6HX
TIN
HSSE

C / 2-3
P / 0 1)

C / 2-3
P / 0 1)

ねじ深さと穴形状
Thread depth and hole type



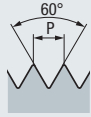
アプリケーション - 被削材
Applications - material ▶▶ 78

P 1.1-3.1
K 1.1-4.2

P 1.1-3.1
K 1.1-4.2

M	ϕd_1 mm	x	P mm	l_1	l_2	ϕd_2	□		Robust 2ST-VA NE2	Robust 2ST-VA TIN
									C2023001.0422	C2023101.0422
	20	x	1,5	125	25	16	12	18,5	C2023001.0438	C2023101.0438
	22	x	1,5	125	25	18	14,5	20,5	C2023001.0452	C2023101.0452
	24	x	1,5	140	27	18	14,5	22,5	C2023001.0453	C2023101.0453
	24	x	2	140	27	18	14,5	22	C2023001.0470	C2023101.0470
	27	x	1,5	140	28	20	16	25,5	C2023001.0471	C2023101.0471
	27	x	2	140	28	20	16	25	C2023001.0490	C2023101.0490
	30	x	1,5	150	28	22	18	28,5	C2023001.0511	C2023101.0511
	33	x	1,5	160	30	25	20	31,5	C2023001.0512	C2023101.0512
	33	x	2	160	30	25	20	31	C2023001.0532	C2023101.0532
	36	x	1,5	170	30	28	22	34,5	C2023001.0533	C2023101.0533
	36	x	2	170	30	28	22	34	C2023001.0534	C2023101.0534
	36	x	3	200	42	28	22	33	C2023001.0546	C2023101.0546
	38	x	1,5	170	30	28	22	36,5	C2023001.0555	C2023101.0555
	39	x	3	200	42	32	24	36	C2023001.0561	C2023101.0561
	40	x	2	170	30	32	24	38	C2023001.0574	C2023101.0574
	42	x	1,5	170	30	32	24	40,5	C2023001.0575	C2023101.0575
	42	x	2	170	30	32	24	40	C2023001.0576	C2023101.0576
	42	x	3	200	45	32	24	39	C2023001.0597	C2023101.0597
	45	x	3	200	45	36	29	42	C2023001.0616	C2023101.0616
	48	x	1,5	190	32	36	29	46,5	C2023001.0617	C2023101.0617
	48	x	2	190	32	36	29	46	C2023001.0618	C2023101.0618
	48	x	3	225	50	36	29	45	C2023001.0646	C2023101.0646
	52	x	3	225	50	40	32	49	C2023001.0661	C2023101.0661
	56	x	3	225	50	40	32	53	C2023001.0662	C2023101.0662
	56	x	4	250	60	40	32	52	C2023001.0672	C2023101.0672
	60	x	4	280	60	45	35	56	C2023001.0681	C2023101.0681
	64	x	3	275	55	50	39	61	C2023001.0682	C2023101.0682
	64	x	4	315	65	50	39	60		

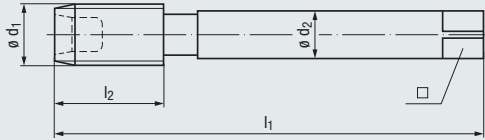
MF



DIN 13

DIN
374

切りくずを収納可能なホコ一形状
With internal chip collector

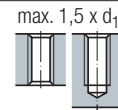


技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

▶▶ 78

	∅ d ₁ mm	P mm	l ₁	l ₂	∅ d ₂	□		Robust 2ST-VA NE2	Robust 2ST-VA TIN
M	68	x 4	315	65	50	39	64	C2023001.0692	C2023101.0692
	70	x 3	275	55	50	39	67	C2023001.0696	C2023101.0696
	70	x 4	340	65	50	39	66	C2023001.0697	C2023101.0697
	72	x 3	275	55	50	39	69	C2023001.0702	C2023101.0702
	72	x 4	340	65	50	39	68	C2023001.0703	C2023101.0703
	72	x 6	340	80	50	39	66	C2023001.0704	C2023101.0704
	76	x 3	275	55	50	39	73	C2023001.0714	C2023101.0714
	76	x 4	340	65	50	39	72	C2023001.0715	C2023101.0715
	76	x 6	340	80	50	39	70	C2023001.0716	C2023101.0716
	80	x 4	360	65	50	39	76	C2023001.0727	C2023101.0727
	80	x 6	360	80	50	39	74	C2023001.0728	C2023101.0728
	85	x 3	325	60	50	39	82	C2023001.0736	C2023101.0736
	85	x 4	380	70	50	39	81	C2023001.0737	C2023101.0737
	90	x 3	325	60	50	39	87	C2023001.0746	C2023101.0746
	90	x 4	380	70	50	39	86	C2023001.0747	C2023101.0747
	90	x 6	380	80	50	39	84	C2023001.0748	C2023101.0748
	95	x 6	400	85	56	44	89	C2023001.0758	C2023101.0758
	100	x 4	400	70	56	44	96	C2023001.0767	C2023101.0767
	100	x 6	400	85	56	44	94	C2023001.0768	C2023101.0768
	110	x 6	400	85	56	44	104	C2023001.0788	C2023101.0788
	115	x 3	350	65	56	44	112	C2023001.0791	C2023101.0791
	120	x 4	400	75	56	44	116	C2023001.0797	C2023101.0797
	120	x 6	400	90	56	44	114	C2023001.0798	C2023101.0798

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If possible, use paste lubrication, coating both the tool and the walls of the drilled hole.
Lubrication with oil is possible only in the vertical machining of blind holes, if the hole is entirely filled with oil.

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



- Product Finder
- V_c
- M
- MF**
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

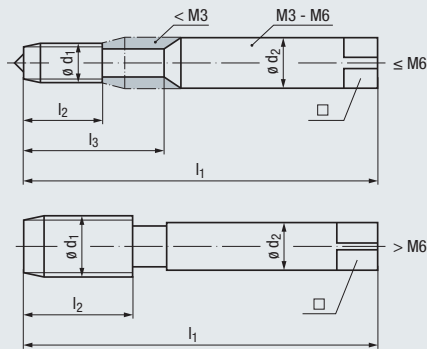
MF



DIN 13

DIN
2181

STEEL
鋼



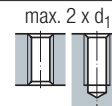
技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファアー · Chamfer
切削油 · Cutting oil

6HX	6HX
HSSE	HSSE
C / 2-3	左ねじ C / 2-3
E / 0	E / 0

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

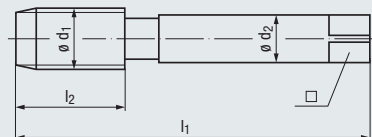
K 1.1-4.2	K 1.1-4.2
N 2.3	N 2.3

M	θd_1 mm	P mm	l_1	l_2	l_3	θd_2	□		Rekord	Rekord
									A-STEEL	A-STEEL-LH
	2,5	x 0,35	40	9	—	2,8	2,1	2,15	A0101001.0196	
	2,6	x 0,35	40	9	—	2,8	2,1	2,25	A0101001.0199	
	3	x 0,35	40	8	18	3,5	2,7	2,65	A0101001.0202	A0101051.0202
	3,5	x 0,35	45	8	20	4	3	3,15	A0101001.0205	A0101051.0205
	4	x 0,35	45	9	22	4,5	3,4	3,65	A0101001.0209	A0101051.0209
	4	x 0,5	45	9	22	4,5	3,4	3,5	A0101001.0210	A0101051.0210
	4,5	x 0,5	50	10	24	6	4,9	4	A0101001.0214	
	5	x 0,5	50	11	25	6	4,9	4,5	A0101001.0218	A0101051.0218
	6	x 0,5	56	12	27	6	4,9	5,5	A0101001.0228	A0101051.0228
	6	x 0,75	56	12	27	6	4,9	5,2	A0101001.0229	A0101051.0229
	7	x 0,75	56	14	—	6	4,9	6,2	A0101001.0239	A0101051.0239
	8	x 0,5	56	14	—	6	4,9	7,5	A0101001.0249	A0101051.0249
	8	x 0,75	56	14	—	6	4,9	7,2	A0101001.0250	A0101051.0250
	8	x 1	63	17	—	6	4,9	7	A0101001.0251	A0101051.0251
	9	x 1	63	17	—	7	5,5	8	A0101001.0263	A0101051.0263
	10	x 0,75	63	18	—	7	5,5	9,2	A0101001.0275	A0101051.0275
	10	x 1	63	18	—	7	5,5	9	A0101001.0276	A0101051.0276
	10	x 1,25	70	22	—	7	5,5	8,8	A0101001.0277	A0101051.0277
	11	x 1	63	18	—	8	6,2	10	A0101001.0288	A0101051.0288
	12	x 1	70	18	—	9	7	11	A0101001.0301	A0101051.0301
	12	x 1,25	70	20	—	9	7	10,8	A0101001.0302	A0101051.0302
	12	x 1,5	70	20	—	9	7	10,5	A0101001.0303	A0101051.0303
	13	x 1	70	18	—	11	9	12	A0101001.0315	A0101051.0315
	14	x 1	70	18	—	11	9	13	A0101001.0329	A0101051.0329
	14	x 1,25	70	20	—	11	9	12,8	A0101001.0330	A0101051.0330
	14	x 1,5	70	20	—	11	9	12,5	A0101001.0331	A0101051.0331
	15	x 1	70	18	—	12	9	14	A0101001.0343	A0101051.0343
	15	x 1,5	70	20	—	12	9	13,5	A0101001.0345	
	16	x 1	70	18	—	12	9	15	A0101001.0357	A0101051.0357
	16	x 1,5	70	20	—	12	9	14,5	A0101001.0359	A0101051.0359
	18	x 1	80	18	—	14	11	17	A0101001.0388	A0101051.0388
	18	x 1,5	80	22	—	14	11	16,5	A0101001.0390	A0101051.0390
	18	x 2	80	22	—	14	11	16	A0101001.0391	
	20	x 1	80	18	—	16	12	19	A0101001.0420	A0101051.0420
	20	x 1,5	80	22	—	16	12	18,5	A0101001.0422	A0101051.0422
	20	x 2	80	22	—	16	12	18	A0101001.0423	
	22	x 1	80	18	—	18	14,5	21	A0101001.0436	A0101051.0436
	22	x 1,5	80	22	—	18	14,5	20,5	A0101001.0438	A0101051.0438
	22	x 2	80	22	—	18	14,5	20	A0101001.0439	
	24	x 1	90	18	—	18	14,5	23	A0101001.0450	A0101051.0450
	24	x 1,5	90	22	—	18	14,5	22,5	A0101001.0452	A0101051.0452
	24	x 2	90	22	—	18	14,5	22	A0101001.0453	A0101051.0453



DIN 13

DIN 2181



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファァ ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

STEEL
鋼



6HX

6HX

HSSE

HSSE

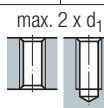
左ねじ

C / 2-3

C / 2-3

E / 0

E / 0



K 1.1-4.2
N 2.3

K 1.1-4.2
N 2.3

M	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□		Rekord A-STEEL	Rekord A-STEEL-LH
	25	x 1,5	90	22	–	18	14,5	23,5	A0101001.0458	
	26	x 1,5	90	22	–	18	14,5	24,5	A0101001.0464	A0101051.0464
	27	x 1,5	90	22	–	20	16	25,5	A0101001.0470	A0101051.0470
	27	x 2	90	22	–	20	16	25	A0101001.0471	
	28	x 1,5	90	22	–	20	16	26,5	A0101001.0476	
	30	x 1	90	18	–	22	18	29	A0101001.0488	
	30	x 1,5	90	22	–	22	18	28,5	A0101001.0490	A0101051.0490
	30	x 2	90	22	–	22	18	28	A0101001.0491	A0101051.0491
	32	x 1,5	90	22	–	22	18	30,5	A0101001.0504	
	33	x 1,5	100	25	–	25	20	31,5	A0101001.0511	
	33	x 2	100	25	–	25	20	31	A0101001.0512	
	34	x 1,5	100	25	–	28	22	32,5	A0101001.0518	
	35	x 1,5	100	25	–	28	22	33,5	A0101001.0525	
	36	x 1,5	100	25	–	28	22	34,5	A0101001.0532	
	36	x 2	125	30	–	28	22	34	A0101001.0533	A0101051.0533
	36	x 3	125	36	–	28	22	33	A0101001.0534	
	38	x 1,5	100	25	–	28	22	36,5	A0101001.0546	
	39	x 2	125	30	–	32	24	37	A0101001.0554	
	39	x 3	125	36	–	32	24	36	A0101001.0555	
	40	x 1,5	110	25	–	32	24	38,5	A0101001.0560	A0101051.0560
	40	x 2	125	30	–	32	24	38	A0101001.0561	
	40	x 3	125	36	–	32	24	37	A0101001.0562	
	42	x 1,5	110	25	–	32	24	40,5	A0101001.0574	
	42	x 2	125	30	–	32	24	40	A0101001.0575	
	42	x 3	125	36	–	32	24	39	A0101001.0576	
	45	x 1,5	110	25	–	36	29	43,5	A0101001.0595	
	45	x 2	125	30	–	36	29	43	A0101001.0596	
	45	x 3	125	36	–	36	29	42	A0101001.0597	
	48	x 1,5	140	25	–	36	29	46,5	A0101001.0616	
	48	x 2	140	30	–	36	29	46	A0101001.0617	
	48	x 3	140	36	–	36	29	45	A0101001.0618	
	50	x 1,5	140	25	–	36	29	48,5	A0101001.0630	
	50	x 2	140	30	–	36	29	48	A0101001.0631	
	50	x 3	140	36	–	36	29	47	A0101001.0632	
	52	x 1,5	140	25	–	40	32	50,5	A0101001.0644	
	52	x 2	140	32	–	40	32	50	A0101001.0645	
	52	x 3	140	40	–	40	32	49	A0101001.0646	

DIN 371

162

162

DIN 374

168

- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

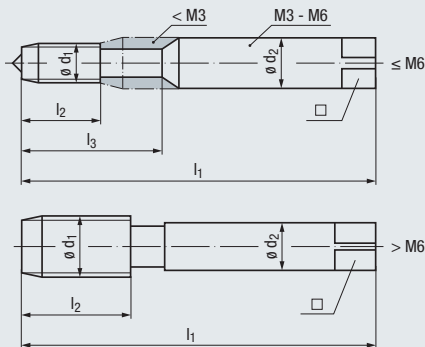


- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 2181

DIN 13



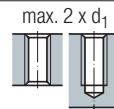
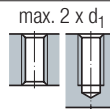
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information

チャンファー ·
切削油 ·

6HX	6HX	6HX
HSSE	HSSE	HSSE
D / 3-4	C / 2-3	C / 2-3
O / P	O / P	O / P

ねじ深さと穴形状
Thread depth and hole type

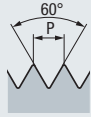


P 1.1-3.1	P 1.1-3.1	P 1.1-3.1
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アプリケーション - 被削材
Applications - material 78

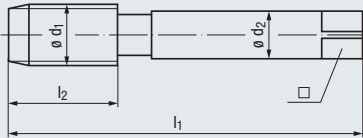
M	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□		HGB-Set V-Nr.1	HGB-Set F	HGB-Set-2S (Nr.1, F)
									2,5 x 0,35	40	9
2,6 x 0,35	40	9	-	2,8	2,1	2,25					
3 x 0,35	40	8	18	3,5	2,7	2,65	H0211009.0202	H0211001.0202	H0201001.0202		
3,5 x 0,35	45	8	20	4	3	3,15					
4 x 0,35	45	9	22	4,5	3,4	3,65	H0211009.0209	H0211001.0209	H0201001.0209		
4 x 0,5	45	9	22	4,5	3,4	3,5	H0211009.0210	H0211001.0210	H0201001.0210		
4,5 x 0,5	50	10	24	6	4,9	4					
5 x 0,5	50	11	25	6	4,9	4,5	H0211009.0218	H0211001.0218	H0201001.0218		
6 x 0,5	56	12	27	6	4,9	5,5	H0211009.0228	H0211001.0228	H0201001.0228		
6 x 0,75	56	12	27	6	4,9	5,2	H0211009.0229	H0211001.0229	H0201001.0229		
7 x 0,75	56	14	-	6	4,9	6,2					
8 x 0,5	56	14	-	6	4,9	7,5	H0211009.0249	H0211001.0249	H0201001.0249		
8 x 0,75	56	14	-	6	4,9	7,2	H0211009.0250	H0211001.0250	H0201001.0250		
8 x 1	63	17	-	6	4,9	7	H0211009.0251	H0211001.0251	H0201001.0251		
9 x 1	63	17	-	7	5,5	8					
10 x 0,75	63	18	-	7	5,5	9,2	H0211009.0275	H0211001.0275	H0201001.0275		
10 x 1	63	18	-	7	5,5	9	H0211009.0276	H0211001.0276	H0201001.0276		
10 x 1,25	70	22	-	7	5,5	8,8	H0211009.0277	H0211001.0277	H0201001.0277		
11 x 1	63	18	-	8	6,2	10					
12 x 1	70	18	-	9	7	11	H0211009.0301	H0211001.0301	H0201001.0301		
12 x 1,25	70	20	-	9	7	10,8	H0211009.0302	H0211001.0302	H0201001.0302		
12 x 1,5	70	20	-	9	7	10,5	H0211009.0303	H0211001.0303	H0201001.0303		
13 x 1	70	18	-	11	9	12					
14 x 1	70	18	-	11	9	13	H0211009.0329	H0211001.0329	H0201001.0329		
14 x 1,25	70	20	-	11	9	12,8	H0211009.0330	H0211001.0330	H0201001.0330		
14 x 1,5	70	20	-	11	9	12,5	H0211009.0331	H0211001.0331	H0201001.0331		
15 x 1	70	18	-	12	9	14					
15 x 1,5	70	20	-	12	9	13,5					
16 x 1	70	18	-	12	9	15	H0211009.0357	H0211001.0357	H0201001.0357		
16 x 1,5	70	20	-	12	9	14,5	H0211009.0359	H0211001.0359	H0201001.0359		
18 x 1	80	18	-	14	11	17	H0211009.0388	H0211001.0388	H0201001.0388		
18 x 1,5	80	22	-	14	11	16,5	H0211009.0390	H0211001.0390	H0201001.0390		
18 x 2	80	22	-	14	11	16	H0211009.0391	H0211001.0391	H0201001.0391		
20 x 1	80	18	-	16	12	19	H0211009.0420	H0211001.0420	H0201001.0420		
20 x 1,5	80	22	-	16	12	18,5	H0211009.0422	H0211001.0422	H0201001.0422		
20 x 2	80	22	-	16	12	18	H0211009.0423	H0211001.0423	H0201001.0423		
22 x 1	80	18	-	18	14,5	21	H0211009.0436	H0211001.0436	H0201001.0436		
22 x 1,5	80	22	-	18	14,5	20,5	H0211009.0438	H0211001.0438	H0201001.0438		
22 x 2	80	22	-	18	14,5	20	H0211009.0439	H0211001.0439	H0201001.0439		
24 x 1	90	18	-	18	14,5	23	H0211009.0450	H0211001.0450	H0201001.0450		

MF



DIN 13

DIN
2181



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ ·
切削油 ·

HSSE

6HX

HSSE

6HX

HSSE

D / 3-4

C / 2-3

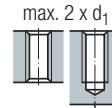
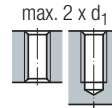
C / 2-3

O / P

O / P

O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション – 被削材
Applications – material 78

P 1.1-3.1

P 1.1-3.1

P 1.1-3.1

M	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□		HGB-Set V-Nr.1	HGB-Set F	HGB-Set-2S (Nr.1, F)
									24 x 1,5	90	22
24 x 2	90	22	–	18	14,5	22	H0211009.0453	H0211001.0453	H0201001.0453		
25 x 1,5	90	22	–	18	14,5	23,5	H0211009.0458	H0211001.0458	H0201001.0458		
26 x 1,5	90	22	–	18	14,5	24,5	H0211009.0464	H0211001.0464	H0201001.0464		
27 x 1,5	90	22	–	20	16	25,5	H0211009.0470	H0211001.0470	H0201001.0470		
27 x 2	90	22	–	20	16	25	H0211009.0471	H0211001.0471	H0201001.0471		
28 x 1,5	90	22	–	20	16	26,5	H0211009.0476	H0211001.0476	H0201001.0476		
30 x 1	90	18	–	22	18	29					
30 x 1,5	90	22	–	22	18	28,5	H0211009.0490	H0211001.0490	H0201001.0490		
30 x 2	90	22	–	22	18	28	H0211009.0491	H0211001.0491	H0201001.0491		
32 x 1,5	90	22	–	22	18	30,5	H0211009.0504	H0211001.0504	H0201001.0504		
33 x 1,5	100	25	–	25	20	31,5	H0211009.0511	H0211001.0511	H0201001.0511		
33 x 2	100	25	–	25	20	31	H0211009.0512	H0211001.0512	H0201001.0512		
34 x 1,5	100	25	–	28	22	32,5	H0211009.0518	H0211001.0518	H0201001.0518		
35 x 1,5	100	25	–	28	22	33,5	H0211009.0525	H0211001.0525	H0201001.0525		
36 x 1,5	100	25	–	28	22	34,5	H0211009.0532	H0211001.0532	H0201001.0532		
36 x 2	125	30	–	28	22	34	H0211009.0533	H0211001.0533	H0201001.0533		
36 x 3	125	36	–	28	22	33	H0211009.0534	H0211001.0534	H0201001.0534		
38 x 1,5	100	25	–	28	22	36,5	H0211009.0546	H0211001.0546	H0201001.0546		
39 x 2	125	30	–	32	24	37	H0211009.0554	H0211001.0554	H0201001.0554		
39 x 3	125	36	–	32	24	36	H0211009.0555	H0211001.0555	H0201001.0555		
40 x 1,5	110	25	–	32	24	38,5	H0211009.0560	H0211001.0560	H0201001.0560		
40 x 2	125	30	–	32	24	38	H0211009.0561	H0211001.0561	H0201001.0561		
40 x 3	125	36	–	32	24	37	H0211009.0562	H0211001.0562	H0201001.0562		
42 x 1,5	110	25	–	32	24	40,5	H0211009.0574	H0211001.0574	H0201001.0574		
42 x 2	125	30	–	32	24	40	H0211009.0575	H0211001.0575	H0201001.0575		
42 x 3	125	36	–	32	24	39	H0211009.0576	H0211001.0576	H0201001.0576		
45 x 1,5	110	25	–	36	29	43,5	H0211009.0595	H0211001.0595	H0201001.0595		
45 x 2	125	30	–	36	29	43	H0211009.0596	H0211001.0596	H0201001.0596		
45 x 3	125	36	–	36	29	42	H0211009.0597	H0211001.0597	H0201001.0597		
48 x 1,5	140	25	–	36	29	46,5	H0211009.0616	H0211001.0616	H0201001.0616		
48 x 2	140	30	–	36	29	46	H0211009.0617	H0211001.0617	H0201001.0617		
48 x 3	140	36	–	36	29	45	H0211009.0618	H0211001.0618	H0201001.0618		
50 x 1,5	140	25	–	36	29	48,5	H0211009.0630	H0211001.0630	H0201001.0630		
50 x 2	140	30	–	36	29	48	H0211009.0631	H0211001.0631	H0201001.0631		
50 x 3	140	36	–	36	29	47	H0211009.0632	H0211001.0632	H0201001.0632		
52 x 1,5	140	25	–	40	32	50,5	H0211009.0644	H0211001.0644	H0201001.0644		
52 x 2	140	32	–	40	32	50	H0211009.0645	H0211001.0645	H0201001.0645		
52 x 3	140	40	–	40	32	49	H0211009.0646	H0211001.0646	H0201001.0646		

Product Finder
V _c
M
MF
UNC UN-8
UNC UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

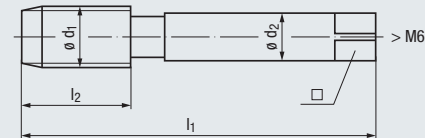
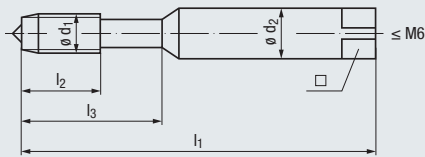


- Product Finder
- V_c
- M
- MF**
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN 13

DIN 2181



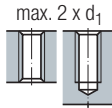
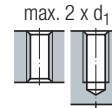
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information

チャンファー ·
切削油 ·

HSSE	6HX	HSSE	6HX
左ねじ	左ねじ	左ねじ	左ねじ
D / 3-4	C / 2-3	C / 2-3	C / 2-3
O / P	O / P	O / P	O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション – 被削材
Applications – material

P 1.1-3.1

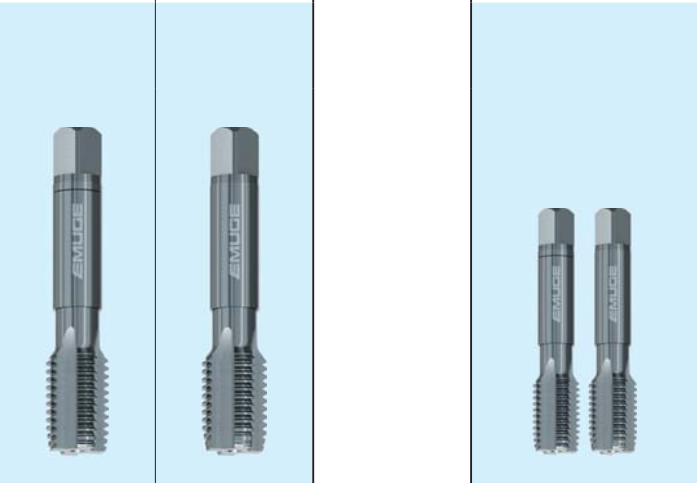
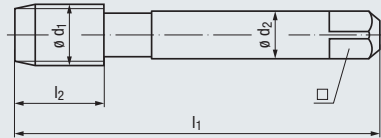
M	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□		HGB-Set LH-V-Nr.1	HGB-Set LH-F	HGB-Set-LH-2S (Nr.1, F)
	6	x 0,5	56	12	27	6	4,9	5,5			
	6	x 0,75	56	12	27	6	4,9	5,2			
	7	x 0,75	56	14	—	6	4,9	6,2			
	8	x 0,5	56	14	—	6	4,9	7,5			
	8	x 0,75	56	14	—	6	4,9	7,2			
	8	x 1	63	17	—	6	4,9	7	H0211059.0251	H0211051.0251	H0201051.0251
	9	x 1	63	17	—	7	5,5	8			
	10	x 0,75	63	18	—	7	5,5	9,2			
	10	x 1	63	18	—	7	5,5	9	H0211059.0276	H0211051.0276	H0201051.0276
	10	x 1,25	70	22	—	7	5,5	8,8			
	11	x 1	63	18	—	8	6,2	10			
	12	x 1	70	18	—	9	7	11	H0211059.0301	H0211051.0301	H0201051.0301
	12	x 1,25	70	20	—	9	7	10,8			
	12	x 1,5	70	20	—	9	7	10,5	H0211059.0303	H0211051.0303	H0201051.0303
	13	x 1	70	18	—	11	9	12			
	14	x 1	70	18	—	11	9	13			
	14	x 1,25	70	20	—	11	9	12,8			
	14	x 1,5	70	20	—	11	9	12,5	H0211059.0331	H0211051.0331	H0201051.0331
	15	x 1	70	18	—	12	9	14			
	15	x 1,5	70	20	—	12	9	13,5			
	16	x 1	70	18	—	12	9	15			
	16	x 1,5	70	20	—	12	9	14,5	H0211059.0359	H0211051.0359	H0201051.0359
	18	x 1	80	18	—	14	11	17			
	18	x 1,5	80	22	—	14	11	16,5	H0211059.0390	H0211051.0390	H0201051.0390
	18	x 2	80	22	—	14	11	16			
	20	x 1	80	18	—	16	12	19			
	20	x 1,5	80	22	—	16	12	18,5	H0211059.0422	H0211051.0422	H0201051.0422
	20	x 2	80	22	—	16	12	18			
	22	x 1	80	18	—	18	14,5	21			
	22	x 1,5	80	22	—	18	14,5	20,5	H0211059.0438	H0211051.0438	H0201051.0438
	22	x 2	80	22	—	18	14,5	20			
	24	x 1	90	18	—	18	14,5	23			
	24	x 1,5	90	22	—	18	14,5	22,5	H0211059.0452	H0211051.0452	H0201051.0452
	24	x 2	90	22	—	18	14,5	22			

MF





DIN 13

DIN
2181



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 
切削油 · 

	6HX		6HX
超硬	超硬		超硬
C / ≈3	C / ≈3		C / ≈3
O / P	O / P		O / P


ねじ深さと穴形状
Thread depth and hole type



アプリケーション – 被削材
Applications – material

▶ 78

P 5.1	P 5.1		P 5.1
N 2.8, 5.2	N 2.8, 5.2		N 2.8, 5.2
H 1.1-1.3	H 1.1-1.3		H 1.1-1.3

M	ø d ₁ mm	x	P mm	l ₁	l ₂	ø d ₂	□		VHM/KHM-Set V-Nr.1	VHM/KHM-Set F	VHM/KHM-Set-2S (Nr.1, F)
									8	10	1
10	10	1	63	10	7	5,5	9	H0330909.0276	H0330901.0276	H0320901.0276	
12	12	1,5	70	15	9	7	10,5	H0330909.0303	H0330901.0303	H0320901.0303	
14	14	1,5	70	15	11	9	12,5	H0330909.0331	H0330901.0331	H0320901.0331	
16	16	1,5	70	15	12	9	14,5	H0330909.0359	H0330901.0359	H0320901.0359	

- Product Finder
- V_c
- M
- MF**
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

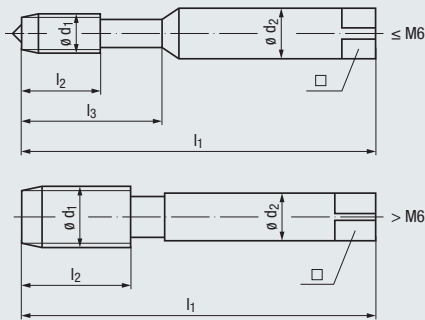


- Product Finder
- V_c
- M
- MF**
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



DIN 13

DIN
2181



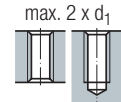
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information

チャンファ · Chamfer
切削油 · Cutting oil

HSSE	HSSE	6HX HSSE
C / 2-3	C / 2-3	C / 2-3
O / P	O / P	O / P

ねじ深さと穴形状
Thread depth and hole type





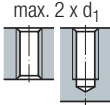


アプリケーション – 被削材
Applications – material

P 1.1-5.1	P 1.1-5.1	P 1.1-5.1
M 1.1-4.1	M 1.1-4.1	M 1.1-4.1
K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
N 1.1-2.6	N 1.1-2.6	N 1.1-2.6
S 2.1-2.2, 2.4	S 2.1-2.2, 2.4	S 2.1-2.2, 2.4

M	∅ d ₁ mm	P mm	l ₁	l ₂	l ₃	∅ d ₂	□	Image	WM-Set	WM-Set	WM-Set
									V-Nr.1Z	V-Nr.1	F
	6	x 0,75	56	12	27	6	4,9	5,2	H0463009.0229	H0473009.0229	H0473001.0229
	8	x 0,75	56	14	—	6	4,9	7,2	H0463009.0250	H0473009.0250	H0473001.0250
	8	x 1	63	17	—	6	4,9	7	H0463009.0251	H0473009.0251	H0473001.0251
	10	x 1	63	18	—	7	5,5	9	H0463009.0276	H0473009.0276	H0473001.0276
	12	x 1	70	18	—	9	7	11	H0463009.0301	H0473009.0301	H0473001.0301
	12	x 1,5	70	20	—	9	7	10,5	H0463009.0303	H0473009.0303	H0473001.0303
	14	x 1,5	70	20	—	11	9	12,5	H0463009.0331	H0473009.0331	H0473001.0331
	16	x 1,5	70	20	—	12	9	14,5	H0463009.0359	H0473009.0359	H0473001.0359
	18	x 1,5	80	22	—	14	11	16,5	H0463009.0390	H0473009.0390	H0473001.0390
	20	x 1,5	80	22	—	16	12	18,5	H0463009.0422	H0473009.0422	H0473001.0422
	22	x 1,5	80	22	—	18	14,5	20,5	H0463009.0438	H0473009.0438	H0473001.0438
	24	x 1,5	90	22	—	18	14,5	22,5	H0463009.0452	H0473009.0452	H0473001.0452

1) パイロット付き No.1Zは、特にマニュアルで加工を行う場合に精度を確保するためのオプションとなります。
機械での加工の場合は必ずしも必要ではありません。No.1ZとNo.1は同径です。
The taper tap No. 1Z with cylindrical pilot is an additional aid for true alignment especially when tapping by hand.
It can be deleted when tapping by machine. The profile graduation of No.1Z, and No.1 is the same.

  2)	 			<p>Product Finder</p> <p>V_c</p> <p>M</p> <p>MF</p> <p>UNC UN-8</p> <p>UNF UNEF</p> <p>G, Rp NPSM, NPSF</p> <p>NPT, NPTF Rc, W</p> <p>BSW, BSF</p> <p>Pg</p> <p>MJ UNJC, UNJF</p> <p>EG (STI)</p> <p>SELF-LOCK</p> <p>Tr, Tr-F Rd</p> <p>Zubehör Accessories</p>
<p>6HX</p> <p>HSSE</p> <p>C / 2-3</p> <p>O / P</p>	<p>6HX</p> <p>HSSE</p> <p>C / 2-3</p> <p>O / P</p>			
				
<p>P 1.1-5.1</p> <p>M 1.1-4.1</p> <p>K 1.1-4.2</p> <p>N 1.1-2.6</p> <p>S 2.1-2.2, 2.4</p>	<p>P 1.1-5.1</p> <p>M 1.1-4.1</p> <p>K 1.1-4.2</p> <p>N 1.1-2.6</p> <p>S 2.1-2.2, 2.4</p>			
<p>WM-Set-3S (Nr.1Z, Nr.1, F)</p>	<p>WM-Set-2S (Nr.1, F)</p>			
<p>H0453001.0229</p> <p>H0453001.0250</p> <p>H0453001.0251</p> <p>H0453001.0276</p> <p>H0453001.0301</p> <p>H0453001.0303</p> <p>H0453001.0331</p> <p>H0453001.0359</p> <p>H0453001.0390</p> <p>H0453001.0422</p> <p>H0453001.0438</p> <p>H0453001.0452</p>	<p>H0483001.0229</p> <p>H0483001.0250</p> <p>H0483001.0251</p> <p>H0483001.0276</p> <p>H0483001.0301</p> <p>H0483001.0303</p> <p>H0483001.0331</p> <p>H0483001.0359</p> <p>H0483001.0390</p> <p>H0483001.0422</p> <p>H0483001.0438</p> <p>H0483001.0452</p>			<p>M 6 x 0,75</p> <p>8 x 0,75</p> <p>8 x 1</p> <p>10 x 1</p> <p>12 x 1</p> <p>12 x 1,5</p> <p>14 x 1,5</p> <p>16 x 1,5</p> <p>18 x 1,5</p> <p>20 x 1,5</p> <p>22 x 1,5</p> <p>24 x 1,5</p>

2) 通り穴の場合No.1は不要です
No.1 is not needed when tapping in through holes by hand

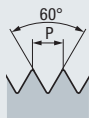


調整式タップハンドルは 305ページ
をご覧ください。

Adjustable tap wrenches, see page 305

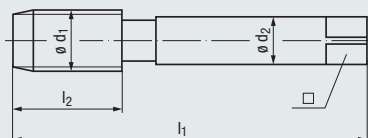
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

MF



DIN 13

薄肉プラスチック用
For thin-walled brass tubes



MS
黄銅



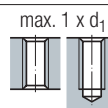
技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

6HX	6HX +0,1 2)	6GX
HSSE	HSSE	HSSE
max. 1	max. 1	max. 1
E	E	E

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

N 2.3, 2.6	N 2.3, 2.6	N 2.3, 2.6
------------	------------	------------

$\varnothing d_1$ mm	P mm	l_1	l_2	$\varnothing d_2$	\square		AUT-A MS-R	AUT-A MS-R	AUT-A MS-R
M 8	x 1	63	17	6	4,9	7	A6622501.0251		A6622521.0251
10	x 1	63	18	7	5,5	9	A6622501.0276	A662254A.0276	A6622521.0276
12	x 1	70	18	9	7	11	A6622501.0301	A662254A.0301	A6622521.0301
12	x 1,5	70	20	9	7	10,5	A6622501.0303		A6622521.0303
14	x 1	70	18	10 1)	8	13		A662254A.0329	A6622521.0329
14	x 1,5	70	20	10 1)	8	12,5	A6622501.0331		A6622521.0331
15	x 1	70	18	12	9	14			A6622521.0343
16	x 1,5	70	20	12	9	14,5	A6622501.0359	A662254A.0359	A6622521.0359
17	x 1	70	18	12	9	16			A6622521.0372
18	x 1,5	80	22	12 1)	9	16,5	A6622501.0390		A6622521.0390
20	x 1,5	80	22	15 1)	12	18,5	A6622501.0422		A6622521.0422
22	x 1,5	80	22	15 1)	12	20,5	A6622501.0438		A6622521.0438
24	x 1,5	90	22	18	14,5	22,5	A6622501.0452		A6622521.0452
26	x 1,5	90	22	18	14,5	24,5	A6622501.0464		A6622521.0464
28	x 1,5	90	22	18 1)	14,5	26,5	A6622501.0476		A6622521.0476
30	x 1,5	90	22	18 1)	14,5	28,5	A6622501.0490		A6622521.0490

- 1) 特殊AUT-シャンク
Special shank for "AUT" taps
- 2) オーバーサイズタップ使用時は下穴径を0,1 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.1 mm



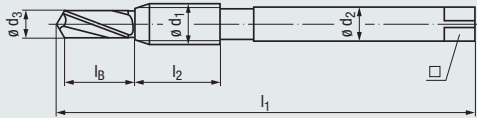
DIN 13 ISO-メートル並目ねじ用の自動盤用セットタップも特殊対応致します。

Taps for automatic lathes for ISO Metric coarse thread DIN 13, upon request



DIN 13

スタンダード
Standard length



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ISO 2/6H
HSSE
C / 2-3
E / 0

ねじ深さと穴形状
Thread depth and hole type

max. 1 x d_1

アプリケーション – 被削材
Applications – material 78

P 2.1
N 2.2

スタンダード · Standard length

M	ϕd_1 mm	P mm	l_1	l_2	l_B	ϕd_2	□	ϕd_3	KOMBI Normal-Ig			
	4	x 0,5	66	13	8,9	4,5	3,4	3,55	M0601000.0210			
	5	x 0,5	75	15	10,7	6	4,9	4,55				
	6	x 0,75	81	20	12,4	6	4,9	5,31	M0601000.0229			
	8	x 0,75	93	12	17,8	6	4,9	7,31				
	8	x 1	93	12	17,8	6	4,9	7,05	M0601000.0251			
	10	x 1	99	14	19,2	7	5,5	9,05	M0601000.0276			
	10	x 1,25	99	14	19,3	7	5,5	8,8				
	12	x 1	106	14	21,6	9	7	11,05				
	12	x 1,5	106	14	21,8	9	7	10,55	M0601000.0303			
	14	x 1,5	114	15	24,2	11	9	12,55	M0601000.0331			
	16	x 1,5	123	16	27,5	12	9	14,55	M0601000.0359			
	18	x 1,5	132	18	30,9	14	11	16,55				
	20	x 1,5	132	18	30,3	16	12	18,55	M0601000.0422			

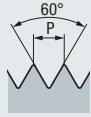
- Product Finder
- v_c
- M
- MF**
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



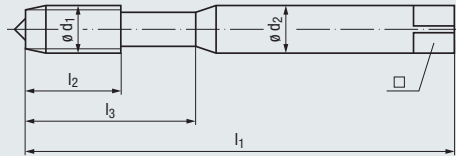
- Product Finder
- V_c
- M
- MF
- UNC**
UN-3
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

UNC

ASME B1.1



≈ DIN 371



公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

技術情報
Technical information

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

Nr.	ø d ₁		P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂		□	Image
	inch	mm					mm	mm		
Nr. 1	0.0730	1.85	64	45	7	-	2.8	2.1	1.55	
Nr. 2	0.0860	2.18	56	45	7	-	2.8	2.1	1.85	
Nr. 3	0.0990	2.51	48	50	9	14	2.8	2.1	2.1	
Nr. 4	0.1120	2.85	40	56	11	18	3.5	2.7	2.35	
Nr. 5	0.1250	3.18	40	56	11	18	3.5	2.7	2.65	
Nr. 6	0.1380	3.51	32	56	12	20	4	3	2.85	
Nr. 8	0.1640	4.18	32	63	13	21	4.5	3.4	3.5	
Nr. 10	0.1900	4.85	24	70	15	25	6	4.9	3.9	
Nr. 12	0.2160	5.51	24	80	16	30	6	4.9	4.5	
1/4	0.2500	6.35	20	80	17	30	7	5.5	5.1	
5/16	0.3125	7.91	18	90	20	35	8	6.2	6.6	
3/8	0.3750	9.53	16	100	22	39	10	8	8	

≈ DIN 376



STEEL
鋼



NEW



l₂ ≈ 10 x P



l₂ ≈ 10 x P

2B	3B	2B	2B
HSSE	HSSE	HSSE	TIN HSSE
B / 4-5	B / 4-5	R35 C / 2-3	R35 C / 2-3
E / O	E / O	E / O	E / O

max. 3 x d₁



max. 2,5 x d₁



P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2
--------------------	--------------------	--------------------	--------------------

















Rekord 1B-STEEL-L	Rekord 1B-STEEL-L	Enorm 1 STEEL	Enorm 1 STEEL TIN
B0208900.5001			
B0208900.5002	B0208910.5002		
B0208900.5003	B0208910.5003	B0501000.5003	B0501400.5003
B0208900.5004	B0208910.5004		
B0208900.5005	B0208910.5005	B0501000.5005	B0501400.5005
B0208900.5006	B0208910.5006	B0501000.5006	B0501400.5006
B0208900.5007	B0208910.5007	B0501000.5007	B0501400.5007
B0208900.5008	B0208910.5008		
B0208900.5009	B0208910.5009	B0501000.5009	B0501400.5009
B0208900.5010	B0208910.5010	B0501000.5010	B0501400.5010
B0208900.5011	B0208910.5011	B0501000.5011	B0501400.5011

208

208

208

208

VA ステンレス					INOX ステンレス		H 高強度鋼	
								
2B	2B	2B	2B		2B		2BX	
NT	TIN	GLT-1			GLT-201		NT	
HSSE	HSSE	HSSE	HSSE		HSSE		HSSE	
B / 4-5	B / 4-5	B / 4-5	C / 2-3		R45		C / 2-3	
E / O / P	E / O / P	E / O / P	E / O / P		C / 2-3		E / O / P	
max. 3 x d ₁			max. 2,5 x d ₁		max. 2,5 x d ₁		max. 2 x d ₁	
								
P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 1.1-3.1		M 1.1-2.1		K 1.1-4.2 N 4.1	
Rekord 1B-VA NT	Rekord 1B-VA TIN	Rekord 1B-VA GLT-1	Enorm 1 VA		Enorm 1 INOX GLT-201		Rekord 1A-H NT	
B0203000.5001	B0203100.5001	B020C300.5001						Nr. 1 - 64
B0203000.5003	B0203100.5003	B020C300.5003	B0503000.5003		B050J300.5003		B0100501.5003	Nr. 2 - 56
B0203000.5005	B0203100.5005	B020C300.5005	B0503000.5005		B050J300.5005		B0100501.5004	Nr. 3 - 48
B0203000.5006	B0203100.5006	B020C300.5006	B0503000.5006		B050J300.5006		B0100501.5005	Nr. 4 - 40
B0203000.5007	B0203100.5007	B020C300.5007	B0503000.5007		B050J300.5007		B0100501.5006	Nr. 5 - 40
B0203000.5009	B0203100.5009	B020C300.5009	B0503000.5009		B050J300.5009		B0100501.5007	Nr. 6 - 32
B0203000.5010	B0203100.5010	B020C300.5010	B0503000.5010		B050J300.5010		B0100501.5008	Nr. 8 - 32
B0203000.5011	B0203100.5011	B020C300.5011	B0503000.5011		B050J300.5011		B0100501.5009	Nr. 10 - 24
							B0100501.5010	Nr. 12 - 24
							B0100501.5011	1/4 - 20
								5/16 - 18
								3/8 - 16
 209	 209	 209	 209		 209		 209	

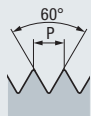
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



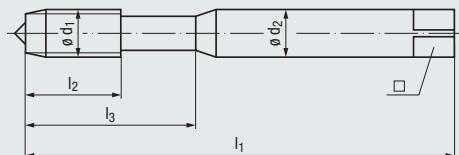
- Product Finder
- V_c
- M
- MF
- UNC**
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

UNC

ASME B1.1



≈ DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material ▶▶ 78

Z
シンク口加工



2BX	2B	2B	2B
GLT-1		GLT-1	
HSSE 粉末	HSSE	HSSE	HSSE
R45	R45	R45	R45
C / 2-3	C / 2-3	C / 2-3	E / 1,5-2
E / O / P	E / O / P	E / O / P	E / O / P




















max. 3 x d₁



P 1.1-4.1	P 1.1-3.1	P 1.1-4.1	P 1.1-3.1
M 1.1-4.1		M 1.1-4.1	
K 1.1-3.2		N 1.4, 2.1-2.2	
N 1.4, 2.1-2.2		N 2.4-2.5	
N 2.4-2.5		S 1.1	
S 1.1			

Nr.	∅ d ₁ inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	∅ d ₂	□		Enorm 1-Z PM-GLT-1	Enorm 1-Z	Enorm 1-Z GLT-1	Enorm 1-Z/E
Nr. 1	0.0730	64	45	4	-	2,8	2,1	1,55				
Nr. 2	0.0860	56	45	4,5	-	2,8	2,1	1,85				
Nr. 3	0.0990	48	50	5	14	2,8	2,1	2,1				
Nr. 4	0.1120	40	56	6	18	3,5	2,7	2,35	B616A601.5003	B0503500.5003	B050C400.5003	B0513500.5003
Nr. 5	0.1250	40	56	7	18	3,5	2,7	2,65		B0503500.5004		B0513500.5004
Nr. 6	0.1380	32	56	7	20	4	3	2,85	B616A601.5005	B0503500.5005	B050C400.5005	B0513500.5005
Nr. 8	0.1640	32	63	8	21	4,5	3,4	3,5	B616A601.5006	B0503500.5006	B050C400.5006	B0513500.5006
Nr. 10	0.1900	24	70	10	25	6	4,9	3,9	B616A601.5007	B0503500.5007	B050C400.5007	B0513500.5007
Nr. 12	0.2160	24	80	10	30	6	4,9	4,5		B0503500.5008		B0513500.5008
1/4	0.2500	20	80	13	30	7	5,5	5,1	B616A601.5009	B0503500.5009	B050C400.5009	B0513500.5009
5/16	0.3125	18	90	14	35	8	6,2	6,6	B616A601.5010	B0503500.5010	B050C400.5010	B0513500.5010
3/8	0.3750	16	100	16	39	10	8	8	B616A601.5011	B0503500.5011	B050C400.5011	B0513500.5011
≈ DIN 376									210	210	210	210

Z
シンクロ加工

							
	new 	new 	new 		new 		
2B	2B	3B	3B	2B +0,05 2)	2B +0,05 2)		
TIN	GLT-1		GLT-1		GLT-1		
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE		
R45	R45	R45	R45	R45	R45		
E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	C / 2-3		
E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	E / O / P		
max. 3 x d ₁							
							
P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1		
Enorm 1-Z/E TIN	Enorm 1-Z/E GLT-1	Enorm 1-Z	Enorm 1-Z GLT-1	Enorm 1-Z	Enorm 1-Z GLT-1		
B0513700.5003	B051C400.5003	B0503510.5003	B050C410.5003	B0503530.5002	B050C430.5003		Nr. 1 - 64
		B0503510.5004	B050C410.5004	B0503530.5003	B050C430.5004		Nr. 2 - 56
B0513700.5005	B051C400.5005	B0503510.5005	B050C410.5005	B0503530.5004	B050C430.5005		Nr. 3 - 48
B0513700.5006	B051C400.5006	B0503510.5006	B050C410.5006	B0503530.5005	B050C430.5006		Nr. 4 - 40
B0513700.5007	B051C400.5007	B0503510.5007	B050C410.5007	B0503530.5006	B050C430.5007		Nr. 5 - 40
		B0503510.5008	B050C410.5008	B0503530.5007	B050C430.5008		Nr. 6 - 32
B0513700.5009	B051C400.5009	B0503510.5009	B050C410.5009	B0503530.5008	B050C430.5009		Nr. 8 - 32
B0513700.5010	B051C400.5010	B0503510.5010	B050C410.5010	B0503530.5009	B050C430.5010		Nr. 10 - 24
B0513700.5011	B051C400.5011	B0503510.5011	B050C410.5011	B0503530.5010	B050C430.5011		Nr. 12 - 24
				B0503530.5011			1/4 - 20
							5/16 - 18
							3/8 - 16
 211	 211	 211	 211	 211	 211		

2) オーバーサイズタップ使用時は下穴径を0,05 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.05 mm

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



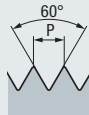
ソフトシンクロ タップホルダーは
617 - 644 ページをご覧ください。

Tool holders of our Softsynchro® series,
see page 617 - 644

- Product Finder
- Vc
- M
- MF
- UNC**
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

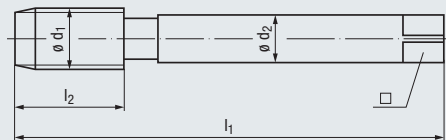
UNC

ASME B1.1



≈ DIN
376

STEEL
鋼



NEW



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

2B	3B	2B	2B
HSSE	HSSE	HSSE	TIN HSSE
B / 4-5	B / 4-5	R35 C / 2-3	R35 C / 2-3
E / O	E / O	E / O	E / O

ねじ深さと穴形状
Thread depth and hole type

max. 3 x d₁



max. 2,5 x d₁



アプリケーション - 被削材
Applications - material

▶▶ 78

P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2
--------------------	--------------------	--------------------	--------------------

ø d ₁ inch	inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		Rekord	Rekord	Enorm	Enorm
								2B-STEEL-L	2B-STEEL-L	2-STEEL	2-STEEL TIN
1/4	0.2500	20	80	17	4,5	3,4	5,1	C0208900.5009			
5/16	0.3125	18	90	20	6	4,9	6,6	C0208900.5010			
3/8	0.3750	16	100	22	7	5,5	8	C0208900.5011	C0208910.5011		
7/16	0.4375	14	100	22	8	6,2	9,4	C0208900.5012	C0208910.5012	C0501000.5012	C0501400.5012
1/2	0.5000	13	110	25	9	7	10,8	C0208900.5013	C0208910.5013	C0501000.5013	C0501400.5013
9/16	0.5625	12	110	26	11	9	12,2	C0208900.5014	C0208910.5014	C0501000.5014	C0501400.5014
5/8	0.6250	11	110	27	12	9	13,5	C0208900.5015	C0208910.5015	C0501000.5015	C0501400.5015
3/4	0.7500	10	125	30	14	11	16,5	C0208900.5016	C0208910.5016	C0501000.5016	C0501400.5016
7/8	0.8750	9	140	32	18	14,5	19,5	C0208900.5017			
1"	1.0000	8	160	36	18	14,5	22,25	C0208900.5018		C0501000.5018	C0501400.5018
1 1/8	1.1250	7	180	40	22	18	25	C0208900.5019			
1 1/4	1.2500	7	180	40	22	18	28	C0208900.5020		C0501000.5020	C0501400.5020
1 3/8	1.3750	6	200	50	28	22	30,75	C0208900.5021		C0501000.5021	C0501400.5021
1 1/2	1.5000	6	200	50	28	22	34	C0208900.5022		C0501000.5022	C0501400.5022
1 3/4	1.7500	5	220	58	36	29	39,5	C0208900.5023		C0501000.5023	C0501400.5023
2"	2.0000	4 1/2	250	65	40	32	45	C0208900.5024		C0501000.5024	C0501400.5024

≈ DIN 371



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









204

204



ねじ深さゲージは
588 - 591ページをご覧ください。

Thread depth plug gauges,
see page 588 - 591

VA ステンレス				INOX ステンレス	H 高強度鋼
					
					
2B	2B	2B	2B	2B	2BX
NT	TIN	GLT-1	2B	GLT-201	NT
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE
B / 4-5	B / 4-5	B / 4-5	R35	R45	C / 2-3
E / O / P	E / O / P	E / O / P	C / 2-3	C / 2-3	E / O / P
			E / O / P	E / O	E / O / P
max. 3 x d ₁			max. 2,5 x d ₁	max. 2,5 x d ₁	max. 2 x d ₁
					
P 2.1-3.1	P 1.1-4.1	P 1.1-4.1	P 1.1-3.1	M 1.1-2.1	K 1.1-4.2
N 2.2, 2.5		M 1.1-4.1			N 4.1
		N 2.2			
Rekord 2B-VA NT	Rekord 2B-VA TIN	Rekord 2B-VA GLT-1	Enorm 2 VA	Enorm 2 INOX GLT-201	Rekord 2A-H NT
C0203000.5012	C0203100.5012	C020C300.5012	C0503000.5012	C050J300.5012	C0100501.5011
C0203000.5013	C0203100.5013	C020C300.5013	C0503000.5013	C050J300.5013	C0100501.5012
			C0503000.5014	C050J300.5014	C0100501.5013
C0203000.5015	C0203100.5015	C020C300.5015	C0503000.5015	C050J300.5015	C0100501.5014
C0203000.5016	C0203100.5016	C020C300.5016	C0503000.5016	C050J300.5016	C0100501.5015
C0203000.5017	C0203100.5017	C020C300.5017			C0100501.5016
C0203000.5018	C0203100.5018	C020C300.5018	C0503000.5018	C050J300.5018	C0100501.5017
					C0100501.5018
					1/4 - 20
					5/16 - 18
					3/8 - 16
					7/16 - 14
					1/2 - 13
					9/16 - 12
					5/8 - 11
					3/4 - 10
					7/8 - 9
					1" - 8
					1 1/8 - 7
					1 1/4 - 7
					1 3/8 - 6
					1 1/2 - 6
					1 3/4 - 5
					2" - 4 1/2
					

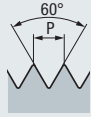
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



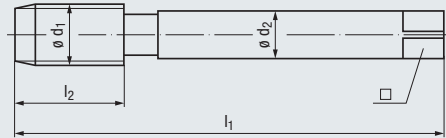
- Product Finder
- Vc
- M
- MF
- UNC**
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

UNC

ASME B1.1



≈ DIN
376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material



Z
シンク口加工



2BX	2B	2B	2B
GLT-1		GLT-1	
HSSE 粉末	HSSE	HSSE	HSSE
R45	R45	R45	R45
C / 2-3	C / 2-3	C / 2-3	E / 1,5-2
E / 0 / P	E / 0 / P	E / 0 / P	E / 0 / P














max. 3 x d₁



P 1.1-4.1	P 1.1-3.1	P 1.1-4.1	P 1.1-3.1
M 1.1-4.1		M 1.1-4.1	
K 1.1-3.2		N 1.4, 2.1-2.2	
N 1.4, 2.1-2.2		N 2.4-2.5	
N 2.4-2.5		S 1.1	
S 1.1			

ø d ₁ inch	inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		Enorm 2-Z PM-GLT-1	Enorm 2-Z	Enorm 2-Z GLT-1	Enorm 2-Z/E
1/4	0.2500	20	80	13	4,5	3,4	5,1		C0503500.5009		
5/16	0.3125	18	90	14	6	4,9	6,6		C0503500.5010		
3/8	0.3750	16	100	16	7	5,5	8		C0503500.5011		
7/16	0.4375	14	100	18	8	6,2	9,4	C616A601.5012	C0503500.5012	C050C400.5012	C0513500.5012
1/2	0.5000	13	110	20	9	7	10,8	C616A601.5013	C0503500.5013	C050C400.5013	C0513500.5013
9/16	0.5625	12	110	20	11	9	12,2		C0503500.5014	C050C400.5014	C0513500.5014
5/8	0.6250	11	110	22	12	9	13,5	C616A601.5015	C0503500.5015	C050C400.5015	C0513500.5015
3/4	0.7500	10	125	25	14	11	16,5	C616A601.5016	C0503500.5016	C050C400.5016	C0513500.5016
7/8	0.8750	9	140	27	18	14,5	19,5		C0503500.5017	C050C400.5017	C0513500.5017
1"	1.0000	8	160	30	18	14,5	22,25	C616A601.5018	C0503500.5018	C050C400.5018	C0513500.5018
1 1/8	1.1250	7	180	35	22	18	25		C0503500.5019		
1 1/4	1.2500	7	180	35	22	18	28				
1 3/8	1.3750	6	200	40	28	22	30,75				
1 1/2	1.5000	6	200	40	28	22	34				
1 3/4	1.7500	5	220	45	36	29	39,5				
2"	2.0000	4 1/2	250	50	40	32	45				
≈ DIN 371								206	206	206	206

Z
シングロ加工

Z シングロ加工							
							
2B	2B	3B	3B	2B +0,05 2)	2B +0,05 2)		
TIN	GLT-1		GLT-1		GLT-1		
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE		
R45	R45	R45	R45	R45	R45		
E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	C / 2-3		
E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	E / O / P		
max. 3 x d ₁							
							
P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1		
Enorm 2-Z/E TIN	Enorm 2-Z/E GLT-1	Enorm 2-Z	Enorm 2-Z GLT-1	Enorm 2-Z	Enorm 2-Z GLT-1		
		C0503510.5011	C050C410.5011				1/4 - 20
		C0503510.5012	C050C410.5012	C0503530.5012	C050C430.5012		5/16 - 18
C0513700.5012	C051C400.5012	C0503510.5013	C050C410.5013	C0503530.5013	C050C430.5013		3/8 - 16
C0513700.5013	C051C400.5013	C0503510.5014	C050C410.5014	C0503530.5014	C050C430.5014		7/16 - 14
C0513700.5014	C051C400.5014	C0503510.5015	C050C410.5015	C0503530.5015	C050C430.5015		1/2 - 13
C0513700.5015	C051C400.5015	C0503510.5016	C050C410.5016	C0503530.5016	C050C430.5016		9/16 - 12
C0513700.5016	C051C400.5016	C0503510.5017	C050C410.5017	C0503530.5017	C050C430.5017		5/8 - 11
C0513700.5017	C051C400.5017	C0503510.5018	C050C410.5018	C0503530.5018	C050C430.5018		3/4 - 10
C0513700.5018	C051C400.5018						7/8 - 9
							1" - 8
							1 1/8 - 7
							1 1/4 - 7
							1 3/8 - 6
							1 1/2 - 6
							1 3/4 - 5
							2" - 4 1/2
							

2) オーバーサイズタップ使用時は下穴径を0,05 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.05 mm

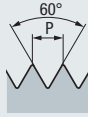
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



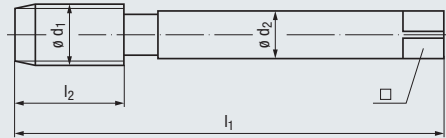
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

UN-8

ASME B1.1



≈ DIN
374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

STEEL
鋼



NEW



Z
シンクロ加工



NEW



- 2B
- TIN
- HSSE
- R35
- C / 2-3
- E / O

- 2B
- HSSE
- R45
- C / 2-3
- E / O / P

max. 2,5 x d₁



max. 3 x d₁



- P 1.1-3.1
- N 2.2

- P 1.1-3.1

Enorm
2-STEEL
TIN

Enorm
2-Z

C0503500.5247

ø d ₁ inch	inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□	
1 1/8	1.1250	8	180	30	22	18	25,4
1 1/4	1.2500	8	180	30	22	18	28,6
1 3/8	1.3750	8	200	30	28	22	31,8
1 1/2	1.5000	8	200	30	28	22	35
1 5/8	1.6250	8	200	30	32	24	38,1
1 3/4	1.7500	8	200	30	36	29	41,3
1 7/8	1.8750	8	225	33	36	29	44,5
2"	2.0000	8	225	33	40	32	47,7

- C0501400.5249**
- C0501400.5251**
- C0501400.5253**
- C0501400.5255**
- C0501400.5257**
- C0501400.5259**
- C0501400.5261**

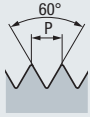


KSN 伸縮タップホルダーは
652 - 661ページをご覧ください。

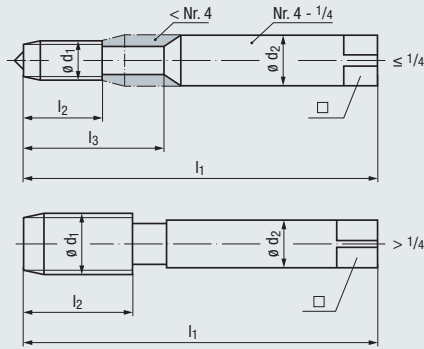
Quick-change tap holders type KSN,
see page 652 - 661

UNC

ASME B1.1



≈ DIN
352



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

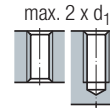
チャンファー・ 切削油・

HSSE
A / 5-6
O / P

HSSE
D / 3-4
O / P

2BX
HSSE
C / 2-3
O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

P 1.1-3.1

Ø d ₁ inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	Ø d ₂	□		HGB-Set V-Nr.1	HGB-Set M-Nr.2	HGB-Set F	HGB-Set-3S (Nr.1, Nr.2, F)	
Nr. 1	0.0730	64	36	8	—	2,8	2,1	1,55	H0111019.5000	H0111029.5000	H0111001.5000	H0101001.5000
Nr. 2	0.0860	56	36	9	—	2,8	2,1	1,85	H0111019.5001	H0111029.5001	H0111001.5001	H0101001.5001
Nr. 3	0.0990	48	40	9	—	2,8	2,1	2,1	H0111019.5002	H0111029.5002	H0111001.5002	H0101001.5002
Nr. 4	0.1120	40	40	10	18	3,5	2,7	2,35	H0111019.5003	H0111029.5003	H0111001.5003	H0101001.5003
Nr. 5	0.1250	40	40	10	18	3,5	2,7	2,65				
Nr. 6	0.1380	32	45	11	20	4	3	2,85	H0111019.5005	H0111029.5005	H0111001.5005	H0101001.5005
Nr. 8	0.1640	32	45	12	22	4,5	3,4	3,5	H0111019.5006	H0111029.5006	H0111001.5006	H0101001.5006
Nr. 10	0.1900	24	50	14	25	6	4,9	3,9	H0111019.5007	H0111029.5007	H0111001.5007	H0101001.5007
Nr. 12	0.2160	24	56	16	28	6	4,9	4,5				
1/4	0.2500	20	56	16	28	6	4,9	5,1	H0111019.5009	H0111029.5009	H0111001.5009	H0101001.5009
5/16	0.3125	18	63	20	—	6	4,9	6,6	H0111019.5010	H0111029.5010	H0111001.5010	H0101001.5010
3/8	0.3750	16	70	22	—	7	5,5	8	H0111019.5011	H0111029.5011	H0111001.5011	H0101001.5011
7/16	0.4375	14	70	22	—	8	6,2	9,4	H0111019.5012	H0111029.5012	H0111001.5012	H0101001.5012
1/2	0.5000	13	75	25	—	9	7	10,8	H0111019.5013	H0111029.5013	H0111001.5013	H0101001.5013
9/16	0.5625	12	80	26	—	11	9	12,2				
5/8	0.6250	11	80	27	—	12	9	13,5	H0111019.5015	H0111029.5015	H0111001.5015	H0101001.5015
3/4	0.7500	10	95	32	—	14	11	16,5	H0111019.5016	H0111029.5016	H0111001.5016	H0101001.5016
7/8	0.8750	9	100	32	—	18	14,5	19,5				
1"	1.0000	8	110	36	—	18	14,5	22,25	H0111019.5018	H0111029.5018	H0111001.5018	H0101001.5018
1 1/8	1.1250	7	125	40	—	22	18	25				
1 1/4	1.2500	7	125	40	—	22	18	28	H0111019.5020	H0111029.5020	H0111001.5020	H0101001.5020
1 3/8	1.3750	6	150	50	—	28	22	30,75				
1 1/2	1.5000	6	150	50	—	28	22	34	H0111019.5022	H0111029.5022	H0111001.5022	H0101001.5022
1 3/4	1.7500	5	160	58	—	36	29	39,5	H0111019.5023	H0111029.5023	H0111001.5023	H0101001.5023
2"	2.0000	4 1/2	180	65	—	40	32	45	H0111019.5024	H0111029.5024	H0111001.5024	H0101001.5024

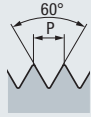
- Product Finder
- V_c
- M
- MF
- UNC**
UN-3
- UNC
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



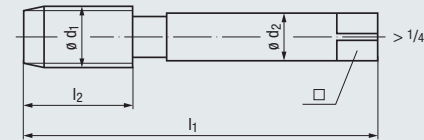
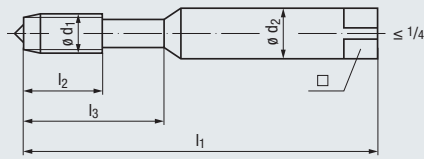
- Product Finder
- V_c
- M
- MF
- UNC**
UN-3
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

UNC

ASME B1.1



≈ DIN
352



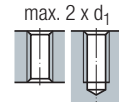
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information

チャンファー · Chamfer
切削油 · Cutting oil

HSSE	HSSE	HSSE	2BX HSSE
C / 2-3	C / 2-3	C / 2-3	C / 2-3
O / P	O / P	O / P	O / P

ねじ深さと穴形状
Thread depth and hole type



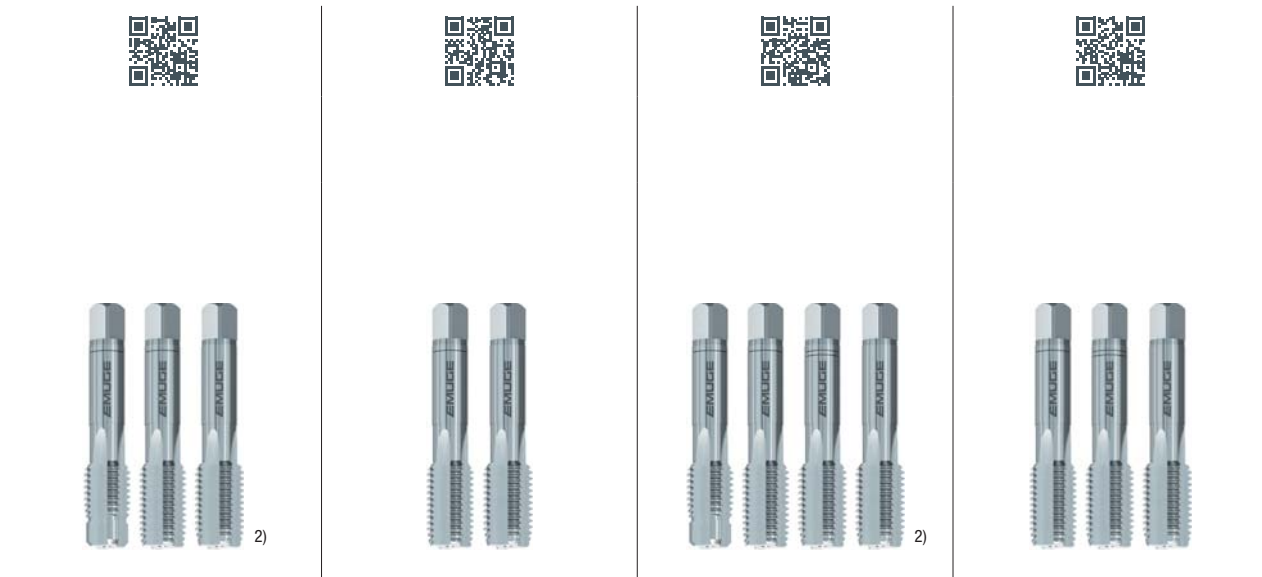
アプリケーション – 被削材
Applications – material

P 1.1-5.1	P 1.1-5.1	P 1.1-5.1	P 1.1-5.1
M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1
K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
N 1.1-2.6	N 1.1-2.6	N 1.1-2.6	N 1.1-2.6
S 2.1-2.2, 2.4	S 2.1-2.2, 2.4	S 2.1-2.2, 2.4	S 2.1-2.2, 2.4

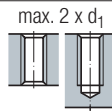
∅ d ₁ inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	∅ d ₂	□	WM-Set V-Nr.1Z	WM-Set V-Nr.1	WM-Set M-Nr.2	WM-Set F
1/4	0.2500 20	56	16	28	6	4,9	H0413019.5009	H0423019.5009	H0423029.5009	H0423001.5009
5/16	0.3125 18	63	20	—	6	4,9	H0413019.5010	H0423019.5010	H0423029.5010	H0423001.5010
3/8	0.3750 16	70	22	—	7	5,5	H0413019.5011	H0423019.5011	H0423029.5011	H0423001.5011
7/16	0.4375 14	70	22	—	8	6,2	H0413019.5012	H0423019.5012	H0423029.5012	H0423001.5012
1/2	0.5000 13	75	25	—	9	7	H0413019.5013	H0423019.5013	H0423029.5013	H0423001.5013
9/16	0.5625 12	80	26	—	11	9				
5/8	0.6250 11	80	27	—	12	9	H0413019.5015	H0423019.5015	H0423029.5015	H0423001.5015
3/4	0.7500 10	95	32	—	14	11	H0413019.5016	H0423019.5016	H0423029.5016	H0423001.5016
7/8	0.8750 9	100	32	—	18	14,5				
1"	1.0000 8	110	36	—	18	14,5	H0413019.5018	H0423019.5018	H0423029.5018	H0423001.5018

1) パイロット付き No.1Zは、特にマニュアルで加工を行う場合に精度を確保するためのオプションとなります。
機械での加工の場合は必ずしも必要ではありません。No.1ZとNo.1は同径です。
The taper tap No. 1Z with cylindrical pilot is an additional aid for true alignment especially when tapping by hand.
It can be deleted when tapping by machine. The profile graduation of No. 1Z, and No.1 is the same.

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



2BX	2BX	2BX	2BX
HSSE	HSSE	HSSE	HSSE
C / 2-3	C / 2-3	C / 2-3	C / 2-3
O / P	O / P	O / P	O / P



P 1.1-5.1	P 1.1-5.1	P 1.1-5.1	P 1.1-5.1
M 1.1-4.1	M 1.1-4.1	M 1.1-4.1	M 1.1-4.1
K 1.1-4.2	K 1.1-4.2	K 1.1-4.2	K 1.1-4.2
N 1.1-2.6	N 1.1-2.6	N 1.1-2.6	N 1.1-2.6
S 2.1-2.2, 2.4	S 2.1-2.2, 2.4	S 2.1-2.2, 2.4	S 2.1-2.2, 2.4

WM-Set-3S (Nr.1Z, Nr.1, F)	WM-Set-2S (Nr.1, F)	WM-Set-4S (Nr.1Z, Nr.1, Nr.2, F)	WM-Set-3S (Nr.1, Nr.2, F)	
H0453001.5009	H0483001.5009	H0403001.5009	H0433001.5009	1/4 - 20
H0453001.5010	H0483001.5010	H0403001.5010	H0433001.5010	5/16 - 18
H0453001.5011	H0483001.5011	H0403001.5011	H0433001.5011	3/8 - 16
H0453001.5012	H0483001.5012	H0403001.5012	H0433001.5012	7/16 - 14
H0453001.5013	H0483001.5013	H0403001.5013	H0433001.5013	1/2 - 13
H0453001.5015	H0483001.5015	H0403001.5015	H0433001.5015	9/16 - 12
H0453001.5016	H0483001.5016	H0403001.5016	H0433001.5016	5/8 - 11
H0453001.5018	H0483001.5018	H0403001.5018	H0433001.5018	3/4 - 10
				7/8 - 9
				1" - 8

2) 通り穴の場合No.1は不要です
No.1 is not needed when tapping in through holes by hand



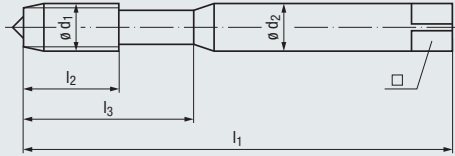
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF**
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



UNF

ASME B1.1

≈ DIN 371



公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

技術情報

Technical information

ねじ深さと穴形状

Thread depth and hole type

アプリケーション - 被削材

Applications - material ▶▶ 78

STEEL
鋼



NEW



l₂ ≈ 10 x P



l₂ ≈ 10 x P

2B	3B	2B	2B
HSSE	HSSE	HSSE	TIN HSSE
B / 4-5	B / 4-5	R35 C / 2-3	R35 C / 2-3
E / O	E / O	E / O	E / O

max. 3 x d₁



max. 2,5 x d₁



P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2
----------------------------------	----------------------------------	----------------------------------	----------------------------------

Nr.	ø d ₁		P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂			Rekord	Rekord	Enorm 1	Enorm 1
	inch	inch					1B-STEEL-L	1B-STEEL-L		STEEL	STEEL TIN		
Nr. 2	0.0860	0.0860	64	45	7	12	2,8	2,1	1,85	B0208900.5035			
Nr. 3	0.0990	0.0990	56	50	9	14	2,8	2,1	2,15	B0208900.5036			
Nr. 4	0.1120	0.1120	48	56	11	18	3,5	2,7	2,4	B0208900.5037			
Nr. 5	0.1250	0.1250	44	56	11	18	3,5	2,7	2,7	B0208900.5038			
Nr. 6	0.1380	0.1380	40	56	12	20	4	3	2,95	B0208900.5039	B0208910.5039		
Nr. 8	0.1640	0.1640	36	63	13	21	4,5	3,4	3,5	B0208900.5040	B0208910.5040		
Nr. 10	0.1900	0.1900	32	70	15	25	6	4,9	4,1	B0208900.5041	B0208910.5041	B0501000.5041	B0501400.5041
Nr. 12	0.2160	0.2160	28	80	16	30	6	4,9	4,6				
1/4	0.2500	0.2500	28	80	17	30	7	5,5	5,5	B0208900.5043	B0208910.5043	B0501000.5043	B0501400.5043
5/16	0.3125	0.3125	24	90	17	35	8	6,2	6,9	B0208900.5044	B0208910.5044	B0501000.5044	B0501400.5044
3/8	0.3750	0.3750	24	90	18	35	10	8	8,5	B0208900.5045	B0208910.5045	B0501000.5045	B0501400.5045

≈ DIN 374


























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VA ステンレス				INOX ステンレス		H 高強度鋼	
							
							
2B	2B	2B	2B	2B	2B	2BX	
NT	TIN	GLT-1	2B	GLT-201	GLT-201	NT	
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	
B / 4-5	B / 4-5	B / 4-5	R35	R45	R45	C / 2-3	
E / O / P	E / O / P	E / O / P	C / 2-3	C / 2-3	C / 2-3	E / O / P	
max. 3 x d ₁			max. 2,5 x d ₁	max. 2,5 x d ₁	max. 2,5 x d ₁	max. 2 x d ₁	
							
P 2.1-3.1	P 1.1-4.1	P 1.1-4.1	P 1.1-3.1	M 1.1-2.1		K 1.1-4.2	
N 2.2, 2.5		M 1.1-4.1				N 4.1	
		N 2.2					
Rekord 1B-VA NT	Rekord 1B-VA TIN	Rekord 1B-VA GLT-1	Enorm 1 VA	Enorm 1 INOX GLT-201		Rekord 1A-H NT	
B0203000.5037	B0203100.5037	B020C300.5037				B0100501.5037	
B0203000.5039	B0203100.5039	B020C300.5039				B0100501.5038	
B0203000.5040	B0203100.5040	B020C300.5040				B0100501.5039	
B0203000.5041	B0203100.5041	B020C300.5041	B0503000.5041	B050J300.5041		B0100501.5040	
B0203000.5043	B0203100.5043	B020C300.5043	B0503000.5043	B050J300.5043		B0100501.5041	
B0203000.5044	B0203100.5044	B020C300.5044	B0503000.5044	B050J300.5044		B0100501.5042	
B0203000.5045	B0203100.5045	B020C300.5045	B0503000.5045	B050J300.5045		B0100501.5043	
 221	 221	 221	 221	 221		 221	

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

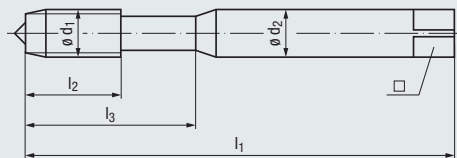


Nr. 2 - 64
Nr. 3 - 56
Nr. 4 - 48
Nr. 5 - 44
Nr. 6 - 40
Nr. 8 - 36
Nr. 10 - 32
Nr. 12 - 28
1/4 - 28
5/16 - 24
3/8 - 24

- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



≈ DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

Z
シンクロ加工



2BX	2B	2B	2B
GLT-1		GLT-1	
HSSE 粉末	HSSE	HSSE	HSSE
R45	R45	R45	R45
C / 2-3	C / 2-3	C / 2-3	E / 1,5-2
E / 0 / P	E / 0 / P	E / 0 / P	E / 0 / P

max. 3 x d₁



P 1.1-4.1	P 1.1-3.1	P 1.1-4.1	P 1.1-3.1
M 1.1-4.1		M 1.1-4.1	
K 1.1-3.2		N 1.4, 2.1-2.2	
N 1.4, 2.1-2.2		N 2.4-2.5	
N 2.4-2.5		S 1.1	
S 1.1			

Nr.	ø d ₁		P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂		
	inch	inch							
Nr. 2	0.0860		64	45	4,5	12	2,8	2,1	1,85
Nr. 3	0.0990		56	50	5	14	2,8	2,1	2,15
Nr. 4	0.1120		48	56	6	18	3,5	2,7	2,4
Nr. 5	0.1250		44	56	7	18	3,5	2,7	2,7
Nr. 6	0.1380		40	56	7	20	4	3	2,95
Nr. 8	0.1640		36	63	8	21	4,5	3,4	3,5
Nr. 10	0.1900		32	70	10	25	6	4,9	4,1
Nr. 12	0.2160		28	80	10	30	6	4,9	4,6
1/4	0.2500		28	80	10	30	7	5,5	5,5
5/16	0.3125		24	90	10	35	8	6,2	6,9
3/8	0.3750		24	90	10	35	10	8	8,5

≈ DIN 374

Enorm 1-Z PM-GLT-1	Enorm 1-Z	Enorm 1-Z GLT-1	Enorm 1-Z/E
	B0503500.5035		B0513500.5035
	B0503500.5036		B0513500.5036
	B0503500.5037		B0513500.5037
	B0503500.5038		B0513500.5038
	B0503500.5039	B050C400.5039	B0513500.5039
	B0503500.5040	B050C400.5040	B0513500.5040
B616A601.5041	B0503500.5041	B050C400.5041	B0513500.5041
	B0503500.5042		B0513500.5042
B616A601.5043	B0503500.5043	B050C400.5043	B0513500.5043
B616A601.5044	B0503500.5044	B050C400.5044	B0513500.5044
B616A601.5045	B0503500.5045	B050C400.5045	B0513500.5045

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222



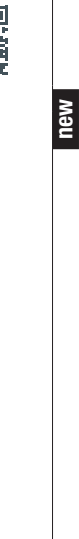


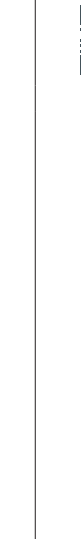

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ソフトシンクロ タップホルダーは
617 - 644ページをご覧ください。

Tool holders of our Softsynchro® series,
see page 617 - 644

Z
シングロ加工

							
2B	2B	3B	3B	2B +0,05 2)	2B +0,05 2)		
TIN	GLT-1		GLT-1		GLT-1		
HSSE	HSSE	HSSE	HSSE	HSSE	HSSE		
R45	R45	R45	R45	R45	R45		
E / 1,5-2	E / 1,5-2	C / 2-3	C / 2-3	E / 1,5-2	E / 1,5-2		
E / O / P	E / O / P	E / O / P	E / O / P	E / O / P	E / O / P		
max. 3 x d ₁							
							
P 1.1-4.1 N 2.2, 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1		
Enorm 1-Z/E TIN	Enorm 1-Z/E GLT-1	Enorm 1-Z	Enorm 1-Z GLT-1	Enorm 1-Z/E	Enorm 1-Z/E GLT-1		
B0513700.5037	B051C400.5037			B0513530.5035 B0513530.5036 B0513530.5037 B0513530.5038	B051C430.5037		
B0513700.5039 B0513700.5040 B0513700.5041	B051C400.5039 B051C400.5040 B051C400.5041	B0503510.5039 B0503510.5040 B0503510.5041 B0503510.5042	B050C410.5039 B050C410.5040 B050C410.5041 B050C410.5042	B0513530.5039 B0513530.5040 B0513530.5041 B0513530.5042	B051C430.5039 B051C430.5040 B051C430.5041		
B0513700.5043 B0513700.5044 B0513700.5045	B051C400.5043 B051C400.5044 B051C400.5045	B0503510.5043 B0503510.5044 B0503510.5045	B050C410.5043 B050C410.5044 B050C410.5045	B0513530.5043 B0513530.5044 B0513530.5045	B051C430.5043 B051C430.5044 B051C430.5045		
📄 222	📄 223	📄 223	📄 223	📄 223	📄 223		

2) オーバーサイズタップ使用時は下穴径を0,05 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.05 mm

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



Nr. 2 - 64
Nr. 3 - 56
Nr. 4 - 48
Nr. 5 - 44
Nr. 6 - 40
Nr. 8 - 36
Nr. 10 - 32
Nr. 12 - 28
1/4 - 28
5/16 - 24
3/8 - 24

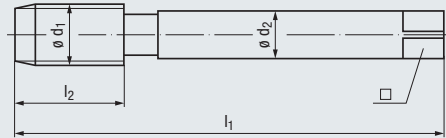
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF**
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



UNF

ASME B1.1

≈ DIN
374



STEEL
鋼



NEW



l₂ ≈ 10 x P



l₂ ≈ 10 x P

技術情報 Technical information	公差 · Tolerance
	コーティング · Coating
	母材 · Cutting material
チャンファー · Chamfer	
	切削油 · Cutting oil

2B	3B	2B	2B
HSSE	HSSE	HSSE	TIN HSSE
B / 4-5	B / 4-5	R35 C / 2-3	R35 C / 2-3
E / O	E / O	E / O	E / O

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material ▶ 78


P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2
--------------------	--------------------	--------------------	--------------------

ø d ₁ inch	inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		Rekord	Rekord	Enorm	Enorm
								2B-STEEL-L	2B-STEEL-L	2-STEEL	2-STEEL TIN
1/4	0.2500	28	80	17	4,5	3,4	5,5	C0208900.5043			
5/16	0.3125	24	90	17	6	4,9	6,9	C0208900.5044			
3/8	0.3750	24	90	18	7	5,5	8,5	C0208900.5045	C0208910.5045		
7/16	0.4375	20	100	22	8	6,2	9,9	C0208900.5046	C0208910.5046	C0501000.5046	C0501400.5046
1/2	0.5000	20	100	22	9	7	11,5	C0208900.5047	C0208910.5047	C0501000.5047	C0501400.5047
9/16	0.5625	18	100	22	11	9	12,9	C0208900.5048	C0208910.5048	C0501000.5048	C0501400.5048
5/8	0.6250	18	100	22	12	9	14,5	C0208900.5049	C0208910.5049	C0501000.5049	C0501400.5049
3/4	0.7500	16	110	25	14	11	17,5	C0208900.5050	C0208910.5050	C0501000.5050	C0501400.5050
7/8	0.8750	14	125	25	18	14,5	20,4	C0208900.5051			
1"	1.0000	12	140	28	18	14,5	23,25	C0208900.5052			
1 1/8	1.1250	12	150	28	22	18	26,5	C0208900.5053			
1 1/4	1.2500	12	150	28	22	18	29,5	C0208900.5054		C0501000.5054	C0501400.5054
1 3/8	1.3750	12	170	30	28	22	32,75	C0208900.5055		C0501000.5055	C0501400.5055
1 1/2	1.5000	12	170	30	28	22	36	C0208900.5056		C0501000.5056	C0501400.5056
≈ DIN 371								216	216	216	216

VA ステンレス				INOX ステンレス	H 高強度鋼
2B NT HSSE	2B TIN HSSE	2B GLT-1 HSSE	2B HSSE R35	2B GLT-201 HSSE R45	2BX NT HSSE
B / 4-5 E / O / P	B / 4-5 E / O / P	B / 4-5 E / O / P	C / 2-3 E / O / P	C / 2-3 E / O	C / 2-3 E / O / P
max. 3 x d ₁ 			max. 2,5 x d ₁ 	max. 2,5 x d ₁ 	max. 2 x d ₁
P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	P 1.1-3.1	M 1.1-2.1	K 1.1-4.2 N 4.1
Rekord 2B-VA NT	Rekord 2B-VA TIN	Rekord 2B-VA GLT-1	Enorm 2 VA	Enorm 2 INOX GLT-201	Rekord 2A-H NT
C0203000.5046 C0203000.5047	C0203100.5046 C0203100.5047	C020C300.5046 C020C300.5047	C0503000.5046 C0503000.5047 C0503000.5048 C0503000.5049 C0503000.5050	C050J300.5046 C050J300.5047 C050J300.5048 C050J300.5049 C050J300.5050	C0100501.5046 C0100501.5047 C0100501.5048 C0100501.5049 C0100501.5050 C0100501.5051 C0100501.5052
					1/4 - 28 5/16 - 24 3/8 - 24 7/16 - 20 1/2 - 20 9/16 - 18 5/8 - 18 3/4 - 16 7/8 - 14 1" - 12 1 1/8 - 12 1 1/4 - 12 1 3/8 - 12 1 1/2 - 12

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories





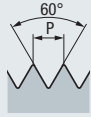
超硬ドリルは11 - 70
ページをご覧ください。

Twist drills, see page 11 - 70

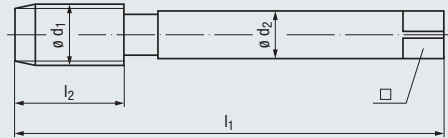
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF**
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

UNF

ASME B1.1



≈ DIN
374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

Z
シングロ加工



2B	2B	2B	2B
HSSE	GLT-1	HSSE	TIN
R45	HSSE	HSSE	HSSE
C / 2-3	R45	R45	R45
E / O / P	C / 2-3	E / 1,5-2	E / 1,5-2
	E / O / P	E / O / P	E / O / P

max. 3 x d₁



P 1.1-3.1	P 1.1-4.1	P 1.1-3.1	P 1.1-4.1
	M 1.1-4.1		N 2.2, 2.4-2.5
	N 1.4, 2.1-2.2		S 1.1
	N 2.4-2.5		
	S 1.1		

ø d ₁ inch	inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		Enorm 2-Z	Enorm 2-Z GLT-1	Enorm 2-Z/E	Enorm 2-Z/E TIN
1/4	0.2500	28	80	10	4,5	3,4	5,5	C0503500.5043			
5/16	0.3125	24	90	10	6	4,9	6,9	C0503500.5044			
3/8	0.3750	24	90	10	7	5,5	8,5	C0503500.5045			
7/16	0.4375	20	100	13	8	6,2	9,9	C0503500.5046	C050C400.5046	C0513500.5046	C0513700.5046
1/2	0.5000	20	100	13	9	7	11,5	C0503500.5047	C050C400.5047	C0513500.5047	C0513700.5047
9/16	0.5625	18	100	15	11	9	12,9	C0503500.5048	C050C400.5048	C0513500.5048	C0513700.5048
5/8	0.6250	18	100	15	12	9	14,5	C0503500.5049	C050C400.5049	C0513500.5049	C0513700.5049
3/4	0.7500	16	110	17	14	11	17,5	C0503500.5050	C050C400.5050	C0513500.5050	C0513700.5050
7/8	0.8750	14	125	17	18	14,5	20,4	C0503500.5051	C050C400.5051	C0513500.5051	C0513700.5051
1"	1.0000	12	140	20	18	14,5	23,25	C0503500.5052	C050C400.5052	C0513500.5052	C0513700.5052
1 1/8	1.1250	12	150	22	22	18	26,5	C0503500.5053			
1 1/4	1.2500	12	150	22	22	18	29,5				
1 3/8	1.3750	12	170	24	28	22	32,75				
1 1/2	1.5000	12	170	24	28	22	36				

≈ DIN 371

218

218

218

219

Z
シンク口加工



2B	3B	3B	2B +0,05 2)	2B +0,05 2)
GLT-1		GLT-1		GLT-1
HSSE	HSSE	HSSE	HSSE	HSSE
R45	R45	R45	R45	R45
E / 1,5-2	C / 2-3	C / 2-3	E / 1,5-2	E / 1,5-2
E / O / P	E / O / P	E / O / P	E / O / P	E / O / P

max. 3 x d₁



P 1.1-4.1	P 1.1-3.1	P 1.1-4.1	P 1.1-3.1	P 1.1-4.1
M 1.1-4.1		M 1.1-4.1		M 1.1-4.1
N 1.4, 2.1-2.2		N 1.4, 2.1-2.2		N 1.4, 2.1-2.2
N 2.4-2.5		N 2.4-2.5		N 2.4-2.5
S 1.1		S 1.1		S 1.1

Enorm 2-Z/E GLT-1	Enorm 2-Z	Enorm 2-Z GLT-1	Enorm 2-Z/E	Enorm 2-Z/E GLT-1
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								1/4 - 28
								5/16 - 24
								3/8 - 24
								7/16 - 20
								1/2 - 20
								9/16 - 18
								5/8 - 18
								3/4 - 16
								7/8 - 14
								1" - 12
								1 1/8 - 12
								1 1/4 - 12
								1 3/8 - 12
								1 1/2 - 12
📄 219	📄 219	📄 219	📄 219	📄 219				

2) オーバーサイズタップ使用時は下穴径を0,05 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.05 mm

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



ねじ深さゲージは
588 - 591ページをご覧ください。

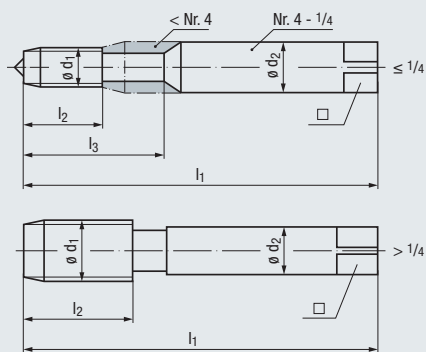
Thread depth plug gauges,
see page 588 - 591

- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF**
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



≈ DIN
2181

STEEL
鋼



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

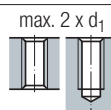
2BX

HSSE

C / 2-3

E / 0

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

K 1.1-4.2
N 2.3

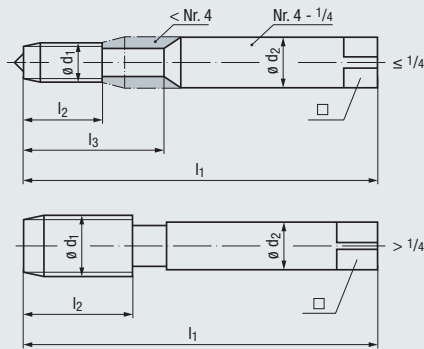
ø d ₁ inch	inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂	□		Rekord A-STEEL
Nr. 1	0.0730	72	36	8	—	2,8	2,1	1,55	A0101001.5034
Nr. 2	0.0860	64	36	9	—	2,8	2,1	1,85	A0101001.5035
Nr. 3	0.0990	56	40	9	—	2,8	2,1	2,15	
Nr. 4	0.1120	48	40	10	18	3,5	2,7	2,4	A0101001.5037
Nr. 5	0.1250	44	40	10	18	3,5	2,7	2,7	
Nr. 6	0.1380	40	45	11	20	4	3	2,95	A0101001.5039
Nr. 8	0.1640	36	45	12	22	4,5	3,4	3,5	A0101001.5040
Nr. 10	0.1900	32	50	14	25	6	4,9	4,1	A0101001.5041
Nr. 12	0.2160	28	56	16	28	6	4,9	4,6	
1/4	0.2500	28	56	16	28	6	4,9	5,5	A0101001.5043
5/16	0.3125	24	63	17	—	6	4,9	6,9	A0101001.5044
3/8	0.3750	24	63	18	—	7	5,5	8,5	A0101001.5045
7/16	0.4375	20	70	22	—	8	6,2	9,9	A0101001.5046
1/2	0.5000	20	70	20	—	9	7	11,5	A0101001.5047
9/16	0.5625	18	70	20	—	11	9	12,9	
5/8	0.6250	18	70	20	—	12	9	14,5	A0101001.5049
3/4	0.7500	16	80	22	—	14	11	17,5	A0101001.5050
7/8	0.8750	14	80	22	—	18	14,5	20,4	
1"	1.0000	12	90	22	—	18	14,5	23,25	A0101001.5052
1 1/8	1.1250	12	90	22	—	22	18	26,5	A0101001.5053
1 1/4	1.2500	12	90	22	—	22	18	29,5	A0101001.5054
1 3/8	1.3750	12	125	30	—	28	22	32,75	A0101001.5055
1 1/2	1.5000	12	125	30	—	28	22	36	A0101001.5056

UNF

ASME B1.1



≈ DIN 2181



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファー・ 切削油・

HSSE

2BX

HSSE

2BX

HSSE

D / 3-4

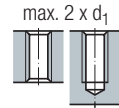
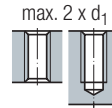
C / 2-3

O / P

C / 2-3

O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

P 1.1-3.1

P 1.1-3.1

P 1.1-3.1

ø d ₁ inch	P 山数 inch Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂	□		HGB-Set	HGB-Set	HGB-Set-2S	
								V-Nr.1	F	(Nr.1, F)	
Nr. 1	0.0730	72	36	8	—	2,8	2,1	1,55	H0211009.5034	H0211001.5034	H0201001.5034
Nr. 2	0.0860	64	36	9	—	2,8	2,1	1,85	H0211009.5035	H0211001.5035	H0201001.5035
Nr. 3	0.0990	56	40	9	—	2,8	2,1	2,15			
Nr. 4	0.1120	48	40	10	18	3,5	2,7	2,4	H0211009.5037	H0211001.5037	H0201001.5037
Nr. 5	0.1250	44	40	10	18	3,5	2,7	2,7			
Nr. 6	0.1380	40	45	11	20	4	3	2,95	H0211009.5039	H0211001.5039	H0201001.5039
Nr. 8	0.1640	36	45	12	22	4,5	3,4	3,5	H0211009.5040	H0211001.5040	H0201001.5040
Nr. 10	0.1900	32	50	14	25	6	4,9	4,1	H0211009.5041	H0211001.5041	H0201001.5041
Nr. 12	0.2160	28	56	16	28	6	4,9	4,6			
1/4	0.2500	28	56	16	28	6	4,9	5,5	H0211009.5043	H0211001.5043	H0201001.5043
5/16	0.3125	24	63	17	—	6	4,9	6,9	H0211009.5044	H0211001.5044	H0201001.5044
3/8	0.3750	24	63	18	—	7	5,5	8,5	H0211009.5045	H0211001.5045	H0201001.5045
7/16	0.4375	20	70	22	—	8	6,2	9,9	H0211009.5046	H0211001.5046	H0201001.5046
1/2	0.5000	20	70	20	—	9	7	11,5	H0211009.5047	H0211001.5047	H0201001.5047
9/16	0.5625	18	70	20	—	11	9	12,9			
5/8	0.6250	18	70	20	—	12	9	14,5	H0211009.5049	H0211001.5049	H0201001.5049
3/4	0.7500	16	80	22	—	14	11	17,5	H0211009.5050	H0211001.5050	H0201001.5050
7/8	0.8750	14	80	22	—	18	14,5	20,4			
1"	1.0000	12	90	22	—	18	14,5	23,25	H0211009.5052	H0211001.5052	H0201001.5052
1 1/8	1.1250	12	90	22	—	22	18	26,5	H0211009.5053	H0211001.5053	H0201001.5053
1 1/4	1.2500	12	90	22	—	22	18	29,5	H0211009.5054	H0211001.5054	H0201001.5054
1 3/8	1.3750	12	125	30	—	28	22	32,75	H0211009.5055	H0211001.5055	H0201001.5055
1 1/2	1.5000	12	125	30	—	28	22	36	H0211009.5056	H0211001.5056	H0201001.5056



調整式タップハンドルは 305ページ
をご覧ください。

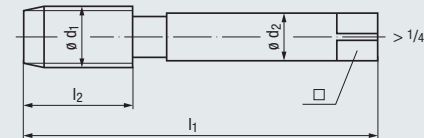
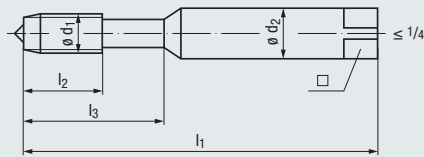
Adjustable tap wrenches, see page 305

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



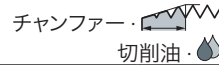
ASME B1.1

≈ DIN
2181



公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information



HSSE

HSSE

HSSE

C / 2-3

C / 2-3

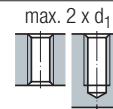
C / 2-3

O / P

O / P

O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション – 被削材
Applications – material







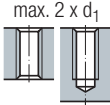
P	1.1-5.1
M	1.1-4.1
K	1.1-4.2
N	1.1-2.6
S	2.1-2.2, 2.4

P	1.1-5.1
M	1.1-4.1
K	1.1-4.2
N	1.1-2.6
S	2.1-2.2, 2.4

P	1.1-5.1
M	1.1-4.1
K	1.1-4.2
N	1.1-2.6
S	2.1-2.2, 2.4

ø d ₁ inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂	□	5,5	6,9	8,5	9,9	11,5	12,9	14,5	17,5	20,4	23,25	WM-Set	WM-Set	WM-Set
																	V-Nr.1Z	V-Nr.1	F
1/4	0.2500	28	56	16	28	6	4,9	5,5	H0463009.5043	H0473009.5043	H0473001.5043								
5/16	0.3125	24	63	17	—	6	4,9	6,9	H0463009.5044	H0473009.5044	H0473001.5044								
3/8	0.3750	24	63	18	—	7	5,5	8,5	H0463009.5045	H0473009.5045	H0473001.5045								
7/16	0.4375	20	70	22	—	8	6,2	9,9	H0463009.5046	H0473009.5046	H0473001.5046								
1/2	0.5000	20	70	20	—	9	7	11,5	H0463009.5047	H0473009.5047	H0473001.5047								
9/16	0.5625	18	70	20	—	11	9	12,9											
5/8	0.6250	18	70	20	—	12	9	14,5	H0463009.5049	H0473009.5049	H0473001.5049								
3/4	0.7500	16	80	22	—	14	11	17,5	H0463009.5050	H0473009.5050	H0473001.5050								
7/8	0.8750	14	80	22	—	18	14,5	20,4											
1"	1.0000	12	90	22	—	18	14,5	23,25	H0463009.5052	H0473009.5052	H0473001.5052								

1) パイロット付き No.1Zは、特にマニュアルで加工を行う場合に精度を確保するためのオプションとなります。
機械での加工の場合は必ずしも必要ではありません。No.1ZとNo.1は同径です。
The taper tap No. 1Z with cylindrical pilot is an additional aid for true alignment especially when tapping by hand.
It can be deleted when tapping by machine. The profile graduation of No.1Z, and No.1 is the same.

  2)	 			Product Finder V _c M MF UNC UN-8 UNF UNEF G, Rp NPSM, NPSF NPT, NPTF Rc, W BSW, BSF Pg MJ UNJC, UNJF EG (STI) SELF-LOCK Tr, Tr-F Rd Zubehör Accessories																				
2BX HSSE C / 2-3 O / P	2BX HSSE C / 2-3 O / P																							
																								
<table border="0"> <tr><td>P</td><td>1.1-5.1</td></tr> <tr><td>M</td><td>1.1-4.1</td></tr> <tr><td>K</td><td>1.1-4.2</td></tr> <tr><td>N</td><td>1.1-2.6</td></tr> <tr><td>S</td><td>2.1-2.2, 2.4</td></tr> </table>	P	1.1-5.1	M	1.1-4.1	K	1.1-4.2	N	1.1-2.6	S	2.1-2.2, 2.4	<table border="0"> <tr><td>P</td><td>1.1-5.1</td></tr> <tr><td>M</td><td>1.1-4.1</td></tr> <tr><td>K</td><td>1.1-4.2</td></tr> <tr><td>N</td><td>1.1-2.6</td></tr> <tr><td>S</td><td>2.1-2.2, 2.4</td></tr> </table>	P	1.1-5.1	M	1.1-4.1	K	1.1-4.2	N	1.1-2.6	S	2.1-2.2, 2.4			
P	1.1-5.1																							
M	1.1-4.1																							
K	1.1-4.2																							
N	1.1-2.6																							
S	2.1-2.2, 2.4																							
P	1.1-5.1																							
M	1.1-4.1																							
K	1.1-4.2																							
N	1.1-2.6																							
S	2.1-2.2, 2.4																							
WM-Set-3S (Nr.1Z, Nr.1, F)	WM-Set-2S (Nr.1, F)																							
H0453001.5043	H0483001.5043			1/4 - 28																				
H0453001.5044	H0483001.5044			5/16 - 24																				
H0453001.5045	H0483001.5045			3/8 - 24																				
H0453001.5046	H0483001.5046			7/16 - 20																				
H0453001.5047	H0483001.5047			1/2 - 20																				
H0453001.5049	H0483001.5049			9/16 - 18																				
H0453001.5050	H0483001.5050			5/8 - 18																				
				3/4 - 16																				
H0453001.5052	H0483001.5052			7/8 - 14																				
				1" - 12																				

2) 通り穴の場合No.1は不要です
No.1 is not needed when tapping in through holes by hand

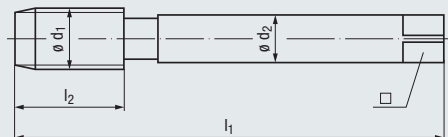


- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



ASME B1.1

≈ DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

STEEL
鋼

VA
ステンレス



2BX

2B

2B

HSSE

HSSE

HSSE

C / 2-3

E / 1,5-2

B / 4-5

E / 0

E / 0

E / 0 / P

max. 2 x d₁

max. 2 x d₁

max. 3 x d₁



K 1.1-4.2
N 2.3

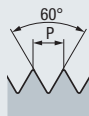
P 2.1-3.1

P 1.1-4.1

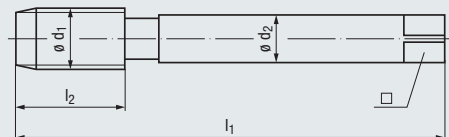
ø d ₁ inch	inch	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		Rekord	Rekord	Rekord
								2A-STEEL	2D-STEEL/E	2B-VA TIN
1/4	0.2500	32	80	14	4,5	3,4	5,55	C0101001.5058	C0461000.5058	C0203100.5058
5/16	0.3125	32	80	14	6	4,9	7,15	C0101001.5059	C0461000.5059	C0203100.5059
3/8	0.3750	32	90	18	7	5,5	8,7	C0101001.5060	C0461000.5060	C0203100.5060
7/16	0.4375	28	90	18	8	6,2	10,2	C0101001.5061	C0461000.5061	C0203100.5061
1/2	0.5000	28	100	18	9	7	11,8	C0101001.5062	C0461000.5062	C0203100.5062
9/16	0.5625	24	100	18	11	9	13,2	C0101001.5063	C0461000.5063	C0203100.5063
5/8	0.6250	24	100	18	12	9	14,8	C0101001.5064	C0461000.5064	C0203100.5064
3/4	0.7500	20	110	25	14	11	17,8	C0101001.5066	C0461000.5066	C0203100.5066
7/8	0.8750	20	125	25	18	14,5	20,95	C0101001.5068	C0461000.5068	C0203100.5068
1"	1.0000	20	140	28	18	14,5	24,15	C0101001.5070	C0461000.5070	C0203100.5070

UNEF

ASME B1.1





≈ DIN
374





技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファァー 
切削油 

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material  78

ϕd_1 inch	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	□	
1/4	0.2500 32	80	14	4,5	3,4	5,55
5/16	0.3125 32	80	14	6	4,9	7,15
3/8	0.3750 32	90	18	7	5,5	8,7
7/16	0.4375 28	90	18	8	6,2	10,2
1/2	0.5000 28	100	18	9	7	11,8
9/16	0.5625 24	100	18	11	9	13,2
5/8	0.6250 24	100	18	12	9	14,8
3/4	0.7500 20	110	25	14	11	17,8
7/8	0.8750 20	125	25	18	14,5	20,95
1"	1.0000 20	140	28	18	14,5	24,15

VA
ステンレス



- 2B
- GLT-1
- HSSE
- B / 4-5
- E / O / P

max. 3 x d_1



- P 1.1-4.1
- M 1.1-4.1
- N 2.2

Rekord
2B-VA
GLT-1

- C020C300.5058
- C020C300.5059
- C020C300.5060
- C020C300.5061
- C020C300.5062
- C020C300.5063
- C020C300.5064
- C020C300.5066
- C020C300.5068
- C020C300.5070

Z
シングロ加工



new
 $l_2 \approx 10 \times P$



new
 $l_2 \approx 10 \times P$

- | | |
|-----------|-----------|
| 2B | 2B |
| GLT-1 | GLT-1 |
| HSSE | HSSE |
| R45 | R45 |
| C / 2-3 | C / 2-3 |
| E / O / P | E / O / P |

max. 3 x d_1



- | | |
|-----------|----------------|
| P 1.1-3.1 | P 1.1-4.1 |
| | M 1.1-4.1 |
| | N 1.4, 2.1-2.2 |
| | N 2.4-2.5 |
| | S 1.1 |

Enorm
2-Z

- C0503500.5058
- C0503500.5059
- C0503500.5060
- C0503500.5061
- C0503500.5062
- C0503500.5063
- C0503500.5064
- C0503500.5066
- C0503500.5068
- C0503500.5070

Enorm
2-Z
GLT-1

- C050C400.5058
- C050C400.5059
- C050C400.5060
- C050C400.5061
- C050C400.5062
- C050C400.5063
- C050C400.5064
- C050C400.5066
- C050C400.5068
- C050C400.5070

Product
Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

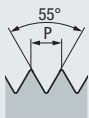
Zubehör
Accessories



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

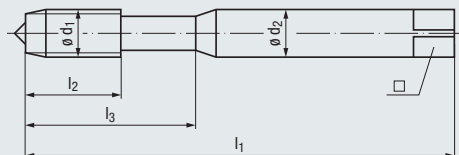
G (BSP)

DIN EN ISO 228



≈ DIN 371

HCUT
高硬度鋼



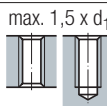
技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

- „X“
- TICN
- HSSE 粉末**
- C / 2-3
- O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

H 1.1-1.2

呼び径

Nom. size

∅ d₁

∅ d₁

mm

P 山数

Gg/1" (tpi)

l₁

l₂

l₃

∅ d₂

□



Rekord 1A-HCUT PM-TICN

G	1/8	9,73	28	90	10	35	10	8	8,8	B010J901.4035
----------	-----	------	----	----	----	----	----	---	-----	----------------------

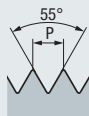
DIN 5156



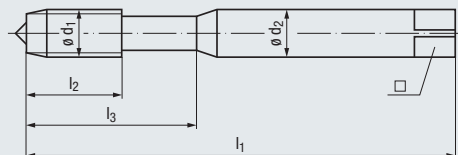
235

G (BSP)

DIN EN ISO 228



≈ DIN 371



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファー・ 切削油・

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

呼び径 Nom. size	∅ d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	∅ d ₂	□		VHM-Rekord 1A-HCUT/D TICN	VHM-Rekord 1A-HCUT/C TICN
G 1/8	9,73	28	100	18	38	10	8	8,8	B016K101.4035 B016K101.4036	B010K101.4035 B010K101.4036
1/4	13,16	19	110	24	44	14	11	11,9		

2) 食い付き山数4.5山タイプを #1 タップとしてご使用ください!
Please note: Use solid carbide tap VHM-Rekord 1A-HCUT/D-TICN as No.1 tap!

HCUT
高硬度鋼



„X“	„X“
TICN	TICN
超硬	超硬
D / 4-5	C / 2-3
O / P	O / P

max. 1,5 x d ₁	max. 1,5 x d ₁

H 1.3-1.4

Product Finder

V _c
M
MF
UNC UN-8
UNF UNEF
G Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



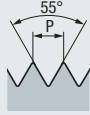
高硬度鋼用ドリルEF-Drill-HCUT は 62ページをご覧ください。

Twist drills type EF-Drill-HCUT, see page 62

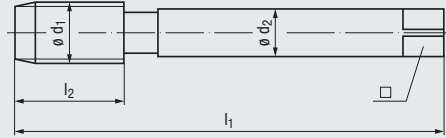
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

G (BSP)

DIN EN ISO 228



DIN 5157



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

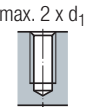
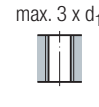
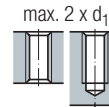
アプリケーション - 被削材
Applications - material

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		Rekord 2A-STEEL	Rekord 2B-STEEL-L	Rekord 2B-STEEL-L TIN	Rekord 2D-STEEL
G 1/16	7,72	28	90	17	6	4,9	6,8	C0101001.4034			C0451001.4034
1/8	9,73	28	90	18	7	5,5	8,8	C0101001.4035	C0208901.4035	C0208401.4035	C0451001.4035
1/4	13,16	19	100	22	11	9	11,8	C0101001.4036	C0208901.4036	C0208401.4036	C0451001.4036
3/8	16,66	19	100	22	12	9	15,25	C0101001.4037	C0208901.4037	C0208401.4037	C0451001.4037
1/2	20,96	14	125	25	16	12	19	C0101001.4038	C0208901.4038	C0208401.4038	C0451001.4038
5/8	22,91	14	125	25	18	14,5	21	C0101001.4039	C0208901.4039	C0208401.4039	C0451001.4039
3/4	26,44	14	140	28	20	16	24,5	C0101001.4040	C0208901.4040	C0208401.4040	C0451001.4040
7/8	30,20	14	150	28	22	18	28,25	C0101001.4041			C0451001.4041
1"	33,25	11	160	30	25	20	30,75	C0101001.4042	C0208901.4042	C0208401.4042	C0451001.4042
1 1/8	37,90	11	170	30	28	22	35,5	C0101001.4043	C0208901.4043		C0451001.4043
1 1/4	41,91	11	170	30	32	24	39,5	C0101001.4044	C0208901.4044		C0451001.4044
1 3/8	44,32	11	180	32	36	29	41,75	C0101001.4045	C0208901.4045		C0451001.4045
1 1/2	47,80	11	190	32	36	29	45,25	C0101001.4046	C0208901.4046		C0451001.4046
1 5/8	52,00	11	190	32	40	32	49,5	C0101001.4047	C0208901.4047		C0451001.4047
1 3/4	53,75	11	190	32	40	32	51	C0101001.4048	C0208901.4048		C0451001.4048
2"	59,61	11	220	40	45	35	57	C0101001.4050	C0208901.4050		C0451001.4050
≈ DIN 371											
DIN 5157											

STEEL
鋼



„X“	„X“	„X“	„X“
HSSE	HSSE	TIN HSSE	HSSE
C / 2-3	B / 4-5	B / 4-5	R15 C / 2-3
E / 0	E / 0	E / 0	E / 0



K 1.1-4.2 N 2.3	P 1.1-3.1 N 2.2	P 1.1-4.1	P 2.1-3.1
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STEEL 鋼				VA ステンレス			
„X“	„X“	„X“	„X“	„X“	„X“	„X“	
HSSE	TIN HSSE	HSSE	TIN HSSE	NT HSSE	TIN HSSE	GLT-1 HSSE	
R15	R15	R35	R35	B / 4-5	B / 4-5	B / 4-5	
E / 1,5-2	C / 2-3	C / 2-3	C / 2-3	E / 0 / P	E / 0 / P	E / 0 / P	
E / 0	E / 0	E / 0	E / 0				
max. 2 x d ₁ 		max. 2,5 x d ₁ 		max. 3 x d ₁ 			
P 2.1-3.1	P 3.1-4.1	P 1.1-3.1 N 2.2	P 1.1-3.1 N 2.2	P 2.1-3.1 N 2.2, 2.5	P 1.1-4.1	P 1.1-4.1 M 1.1-4.1 N 2.2	
Rekord 2D-STEEL/E	Rekord 2DF-STEEL TIN	Enorm 2-STEEL	Enorm 2-STEEL TIN	Rekord 2B-VA NT	Rekord 2B-VA TIN	Rekord 2B-VA GLT-1	
C0461001.4034 C0461001.4035 C0461001.4036 C0461001.4037 C0461001.4038 C0461001.4039 C0461001.4040 C0461001.4041 C0461001.4042	C0401401.4035 C0401401.4036 C0401401.4037 C0401401.4038	C0501001.4035 C0501001.4036 C0501001.4037 C0501001.4038 C0501001.4040 C0501001.4041 C0501001.4042 C0501001.4043 C0501001.4044 C0501001.4045 C0501001.4046 C0501001.4047 C0501001.4048 C0501001.4050	C0501401.4035 C0501401.4036 C0501401.4037 C0501401.4038 C0501401.4040 C0501401.4041 C0501401.4042 C0501401.4043 C0501401.4044 C0501401.4045 C0501401.4046 C0501401.4047 C0501401.4048 C0501401.4050	C0203001.4035 C0203001.4036 C0203001.4037 C0203001.4038 C0203001.4040 C0203001.4042	C0203101.4035 C0203101.4036 C0203101.4037 C0203101.4038 C0203101.4040 C0203101.4042	C020C301.4035 C020C301.4036 C020C301.4037 C020C301.4038 C020C301.4040 C020C301.4042	G 1/16 - 28 1/8 - 28 1/4 - 19 3/8 - 19 1/2 - 14 5/8 - 14 3/4 - 14 7/8 - 14 1" - 11 1 1/8 - 11 1 1/4 - 11 1 3/8 - 11 1 1/2 - 11 1 5/8 - 11 1 3/4 - 11 2" - 11

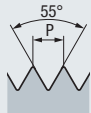
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



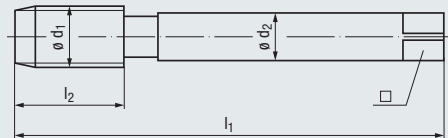
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

G (BSP)

DIN EN ISO 228



DIN
5156



VA
ステンレス



INOX
ステンレス



技術情報
Technical information

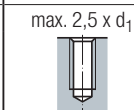
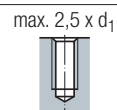
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

- „X“
- HSSE
- R35
- C / 2-3
- E / O / P

- „X“
- GLT-201
- HSSE
- R45
- C / 2-3
- E / O

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

P 1.1-3.1

M 1.1-2.1

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁		l ₂		ø d ₂	□		Enorm 2 VA	Enorm 2 INOX GLT-201
			l ₁	l ₂	l ₁	l ₂					
G 1/16	7,72	28	90	17	6	4,9	6,8				
1/8	9,73	28	90	18	7	5,5	8,8				
1/4	13,16	19	100	22	11	9	11,8 2)		C0503001.4035	C050J301.4035	
3/8	16,66	19	100	22	12	9	15,25 2)		C0503001.4036	C050J301.4036	
1/2	20,96	14	125	25	16	12	19 2)		C0503001.4037	C050J301.4037	
5/8	22,91	14	125	25	18	14,5	21		C0503001.4038	C050J301.4038	
3/4	26,44	14	140	28	20	16	24,5		C0503001.4040	C050J301.4040	
7/8	30,20	14	150	28	22	18	28,25				
1"	33,25	11	160	30	25	20	30,75				
1 1/8	37,90	11	170	30	28	22	35,5				
1 1/4	41,91	11	170	30	32	24	39,5				
1 3/8	44,32	11	180	32	36	29	41,75				
1 1/2	47,80	11	190	32	36	29	45,25				
1 5/8	52,00	11	190	32	40	32	49,5				
1 3/4	53,75	11	190	32	40	32	51				
2"	59,61	11	220	40	45	35	57				



2) G 1/4 以上の Rekord 2A-HCUT-PM-TICN を使用時は下穴径を0.1 mm 大きくしてください
Increase drill diameter for taps Rekord 2A-HCUT-PM-TICN from G 1/4 by 0.1 mm

H 高強度鋼			HCUT 高硬度鋼	Z シングロ加工	
„X“ NT HSSE C / 2-3 E / O / P	„X“ TICN HSSE C / 2-3 E / O / P	„X“ 超硬 E / 1,5-2 E / O	„X“ TICN HSSE 粉末 C / 2-3 O / P	„X“ GLT-1 HSSE 粉末 R45 C / 2-3 E / O / P	„X“ GLT-1 HSSE 粉末 R45 E / 1,5-2 E / O / P
max. 2 x d ₁ 		max. 2 x d ₁ 	max. 1,5 x d ₁ 	max. 3 x d ₁ 	
K 1.1-4.2 N 4.1	K 1.1-4.2 N 1.5-1.6, 2.6 N 4.1, 5.1	K 1.1-4.2 N 1.5-1.6 N 2.6-2.8 N 4.1, 4.3-4.4 N 5.1-5.2	H 1.1-1.2	P 1.1-4.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-4.1 M 1.1-4.1 K 1.1-3.2 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1
Rekord 2A-H NT	Rekord 2A-H TICN	VHM/KHM-Rekord 2A-H/E-1KZ	Rekord 2A-HCUT PM-TICN	Enorm 2-Z PM-GLT-1	Enorm 2-Z/E PM-GLT-1
C0100501.4034 C0100501.4035 C0100501.4036 C0100501.4037 C0100501.4038 C0100501.4039 C0100501.4040 C0100501.4041 C0100501.4042 C0100501.4043 C0100501.4044 C0100501.4045 C0100501.4046 C0100501.4048 C0100501.4050	C0109101.4035 C0109101.4036 C0109101.4037 C0109101.4038 C0109101.4040 C0109101.4042	C1960901.4035 C1960901.4036 C1960901.4037 C1960901.4038	C010J901.4035 C010J901.4036 C010J901.4037 C010J901.4038	C616A601.4035 C616A601.4036 C616A601.4037 C616A601.4038 C616A601.4040 C616A601.4042	C498A601.4035 C498A601.4036 C498A601.4037 C498A601.4038 C498A601.4040 C498A601.4042
			230		

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



1) 通り穴の場合は外部給油をご使用ください
Threading in through holes is possible only with external cooling/lubrication



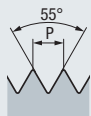
KSN 伸縮タップホルダーは
662 - 669ページをご覧ください。

Quick-change tap holders
type KSN/HD, see page 662 - 669

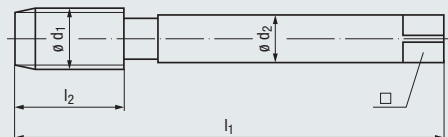
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

G (BSP)

DIN EN ISO 228



DIN 5156



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

▶ 78

Z シングロ加工

„X“	„X“	„X“	„X“
GLT-1		GLT-1	
HSSE 粉末	HSSE	HSSE	HSSE
R45	R45	R45	R45
E / 1,5-2	C / 2-3	C / 2-3	E / 1,5-2
E / 0	E / 0 / P	E / 0 / P	E / 0 / P

max. 3 x d₁

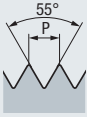


P 1.1-4.1	P 1.1-3.1	P 1.1-4.1	P 1.1-3.1
M 1.1-4.1		M 1.1-4.1	
K 1.1-3.2		N 1.4, 2.1-2.2	
N 1.4, 2.1-2.2		N 2.4-2.5	
N 2.4-2.5		S 1.1	
S 1.1			

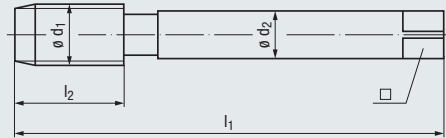
呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		Enorm	Enorm	Enorm	Enorm
								2-Z/E-IKZ PM-GLT-1	2-Z	2-Z GLT-1	2-Z/E
G 1/16	7,72	28	90	10	6	4,9	6,8		C0503501.4034		C0513501.4034
1/8	9,73	28	90	10	7	5,5	8,8	C590A601.4035	C0503501.4035	C050C401.4035	C0513501.4035
1/4	13,16	19	100	15	11	9	11,8	C590A601.4036	C0503501.4036	C050C401.4036	C0513501.4036
3/8	16,66	19	100	15	12	9	15,25	C590A601.4037	C0503501.4037	C050C401.4037	C0513501.4037
1/2	20,96	14	125	17	16	12	19	C590A601.4038	C0503501.4038	C050C401.4038	C0513501.4038
5/8	22,91	14	125	17	18	14,5	21	C590A601.4039	C0503501.4039	C050C401.4039	C0513501.4039
3/4	26,44	14	140	20	20	16	24,5	C590A601.4040	C0503501.4040	C050C401.4040	C0513501.4040
7/8	30,20	14	150	22	22	18	28,25				C0513501.4041
1"	33,25	11	160	24	25	20	30,75	C590A601.4042			C0513501.4042
1 1/8	37,90	11	170	24	28	22	35,5				
1 1/4	41,91	11	170	25	32	24	39,5				C0513501.4044
1 3/8	44,32	11	180	27	36	29	41,75				
1 1/2	47,80	11	190	27	36	29	45,25				C0513501.4046
1 5/8	52,00	11	190	27	40	32	49,5				
1 3/4	53,75	11	190	27	40	32	51				
2"	59,61	11	220	32	45	35	57				

G (BSP)

DIN EN ISO 228



DIN
5156



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファァー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material



Z
シングロ加工



new



new



„X“	„X“	„X“ +0,05 2)	„X“ +0,05 2)
TIN	GLT-1		GLT-1
HSSE	HSSE	HSSE	HSSE
R45	R45	R45	R45
E / 1,5-2	E / 1,5-2	E / 1,5-2	E / 1,5-2
E / O / P	E / O / P	E / O / P	E / O / P

max. 3 x d₁



P 1.1-4.1	P 1.1-4.1	P 1.1-3.1	P 1.1-4.1
N 2.2, 2.4-2.5	M 1.1-4.1		M 1.1-4.1
S 1.1	N 1.4, 2.1-2.2		N 1.4, 2.1-2.2
	N 2.4-2.5		N 2.4-2.5
	S 1.1		S 1.1

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□	ねじ	Enorm 2-Z/E TIN	Enorm 2-Z/E GLT-1	Enorm 2-Z/E	Enorm 2-Z/E GLT-1
G 1/16	7,72	28	90	10	6	4,9	6,8				
1/8	9,73	28	90	10	7	5,5	8,8	C0513701.4035	C051C401.4035	C0513531.4035	C051C431.4035
1/4	13,16	19	100	15	11	9	11,8	C0513701.4036	C051C401.4036	C0513531.4036	C051C431.4036
3/8	16,66	19	100	15	12	9	15,25	C0513701.4037	C051C401.4037	C0513531.4037	C051C431.4037
1/2	20,96	14	125	17	16	12	19	C0513701.4038	C051C401.4038	C0513531.4038	C051C431.4038
5/8	22,91	14	125	17	18	14,5	21	C0513701.4039	C051C401.4039	C0513531.4039	C051C431.4039
3/4	26,44	14	140	20	20	16	24,5	C0513701.4040	C051C401.4040	C0513531.4040	C051C431.4040
7/8	30,20	14	150	22	22	18	28,25	C0513701.4041	C051C401.4041	C0513531.4041	C051C431.4041
1"	33,25	11	160	24	25	20	30,75	C0513701.4042	C051C401.4042	C0513531.4042	C051C431.4042
1 1/8	37,90	11	170	24	28	22	35,5				
1 1/4	41,91	11	170	25	32	24	39,5				
1 3/8	44,32	11	180	27	36	29	41,75				
1 1/2	47,80	11	190	27	36	29	45,25				
1 5/8	52,00	11	190	27	40	32	49,5				
1 3/4	53,75	11	190	27	40	32	51				
2"	59,61	11	220	32	45	35	57				

2) オーバーサイズタップ使用時は下穴径を0,05 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.05 mm

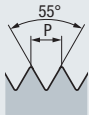
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNF
- G** Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

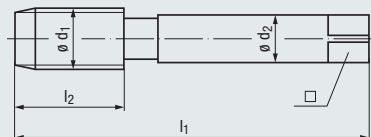
G (BSP)

DIN EN ISO 228



DIN
5157

STEEL
鋼



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

„X“
HSSE
C / 2-3
E / 0

max. 2 x d₁

K 1.1-4.2
N 2.3

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	寸法				外形	長さ	Rekord A-STEEL
			l ₁	l ₂	ø d ₂	□			
G 1/16	7,72	28	63	17	6	4,9	6,8	A0101001.4034	
1/8	9,73	28	63	18	7	5,5	8,8	A0101001.4035	
1/4	13,16	19	70	20	11	9	11,8	A0101001.4036	
3/8	16,66	19	70	20	12	9	15,25	A0101001.4037	
1/2	20,96	14	80	22	16	12	19	A0101001.4038	
5/8	22,91	14	80	22	18	14,5	21	A0101001.4039	
3/4	26,44	14	90	22	20	16	24,5	A0101001.4040	
7/8	30,20	14	90	22	22	18	28,25	A0101001.4041	
1"	33,25	11	100	25	25	20	30,75	A0101001.4042	
1 1/8	37,90	11	125	30	28	22	35,5	A0101001.4043	
1 1/4	41,91	11	125	30	32	24	39,5	A0101001.4044	
1 3/8	44,32	11	125	30	36	29	41,75	A0101001.4045	
1 1/2	47,80	11	140	30	36	29	45,25	A0101001.4046	
1 3/4	53,75	11	140	32	40	32	51	A0101001.4048	
2"	59,61	11	160	36	45	35	57	A0101001.4050	

≈ DIN 371

DIN 5156

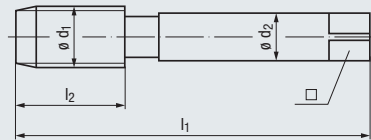
232

G (BSP)

DIN EN ISO 228



DIN 5157



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

HSSE	HSSE	HSSE
D / 3-4 O / P	C / 2-3 O / P	C / 2-3 O / P
max. 2 x d ₁		max. 2 x d ₁

P 1.1-3.1	P 1.1-3.1	P 1.1-3.1
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呼び径 Nom. size ø d ₁	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		HGB-Set V-Nr.1	HGB-Set F	HGB-Set-2S (Nr.1, F)
G 1/16	7,72	28	63	17	6	4,9	6,8			
1/8	9,73	28	63	18	7	5,5	8,8	H0211009.4035	H0211001.4035	H0201001.4035
1/4	13,16	19	70	20	11	9	11,8	H0211009.4036	H0211001.4036	H0201001.4036
3/8	16,66	19	70	20	12	9	15,25	H0211009.4037	H0211001.4037	H0201001.4037
1/2	20,96	14	80	22	16	12	19	H0211009.4038	H0211001.4038	H0201001.4038
5/8	22,91	14	80	22	18	14,5	21	H0211009.4039	H0211001.4039	H0201001.4039
3/4	26,44	14	90	22	20	16	24,5	H0211009.4040	H0211001.4040	H0201001.4040
7/8	30,20	14	90	22	22	18	28,25			
1"	33,25	11	100	25	25	20	30,75	H0211009.4042	H0211001.4042	H0201001.4042
1 1/8	37,90	11	125	30	28	22	35,5	H0211009.4043	H0211001.4043	H0201001.4043
1 1/4	41,91	11	125	30	32	24	39,5	H0211009.4044	H0211001.4044	H0201001.4044
1 3/8	44,32	11	125	30	36	29	41,75	H0211009.4045	H0211001.4045	H0201001.4045
1 1/2	47,80	11	140	30	36	29	45,25	H0211009.4046	H0211001.4046	H0201001.4046
1 3/4	53,75	11	140	32	40	32	51	H0211009.4048	H0211001.4048	H0201001.4048
2"	59,61	11	160	36	45	35	57	H0211009.4050	H0211001.4050	H0201001.4050

Product Finder

V _c
M
MF
UNC UN-8
UNF UNEF
G Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



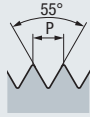
調整式タップハンドルは 305ページ
をご覧ください。

Adjustable tap wrenches, see page 305

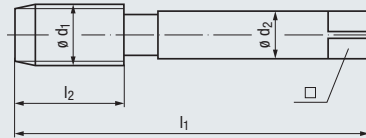
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

G (BSP)

DIN EN ISO 228



DIN
5157



公差 · Tolerance
コーティング · Coating
母材 · Cutting material

HSSE

HSSE

„X“

HSSE

技術情報
Technical information

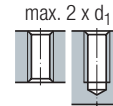
チャンファー · Chamfer
切削油 · Cutting oil

C / 2-3
O / P

C / 2-3
O / P

C / 2-3
O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション – 被削材
Applications – material







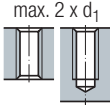
P 1.1-5.1
M 1.1-4.1
K 1.1-4.2
N 1.1-2.6
S 2.1-2.2, 2.4

P 1.1-5.1
M 1.1-4.1
K 1.1-4.2
N 1.1-2.6
S 2.1-2.2, 2.4

P 1.1-5.1
M 1.1-4.1
K 1.1-4.2
N 1.1-2.6
S 2.1-2.2, 2.4

呼び径 Nom. size ø d ₁		ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		WM-Set V-Nr.1Z	WM-Set V-Nr.1	WM-Set F
G	1/8	9,73	28	63	18	7	5,5	8,8	H0463009.4035	H0473009.4035	H0473001.4035
	1/4	13,16	19	70	20	11	9	11,8	H0463009.4036	H0473009.4036	H0473001.4036
	3/8	16,66	19	70	20	12	9	15,25	H0463009.4037	H0473009.4037	H0473001.4037
	1/2	20,96	14	80	22	16	12	19	H0463009.4038	H0473009.4038	H0473001.4038
	5/8	22,91	14	80	22	18	14,5	21			
	3/4	26,44	14	90	22	20	16	24,5	H0463009.4040	H0473009.4040	H0473001.4040
	1"	33,25	11	100	25	25	20	30,75	H0463009.4042	H0473009.4042	H0473001.4042

1) パイロット付き No.1Zは、特にマニュアルで加工を行う場合に精度を確保するためのオプションとなります。
機械での加工の場合は必ずしも必要ではありません。No.1ZとNo.1は同径です。
The taper tap No. 1Z with cylindrical pilot is an additional aid for true alignment especially when tapping by hand.
It can be deleted when tapping by machine. The profile graduation of No.1Z, and No.1 is the same.

  2)	 			Product Finder V _c M MF UNC UN-8 UNF UNEF G Rp NPSM, NPSF NPT, NPTF Rc, W BSW, BSF Pg MJ UNJC, UNJF EG (STI) SELF-LOCK Tr, Tr-F Rd Zubehör Accessories
„X“ HSSE C / 2-3 O / P	„X“ HSSE C / 2-3 O / P			
				
P 1.1-5.1 M 1.1-4.1 K 1.1-4.2 N 1.1-2.6 S 2.1-2.2, 2.4	P 1.1-5.1 M 1.1-4.1 K 1.1-4.2 N 1.1-2.6 S 2.1-2.2, 2.4			
WM-Set-3S (Nr.1Z, Nr.1, F)	WM-Set-2S (Nr.1, F)			
H0453001.4035 H0453001.4036 H0453001.4037 H0453001.4038	H0483001.4035 H0483001.4036 H0483001.4037 H0483001.4038			G 1/8 - 28 1/4 - 19 3/8 - 19 1/2 - 14 5/8 - 14
H0453001.4040 H0453001.4042	H0483001.4040 H0483001.4042			3/4 - 14 1" - 11

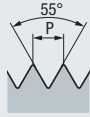
2) 通り穴の場合No.1は不要です
 No.1 is not needed when tapping in through holes by hand



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

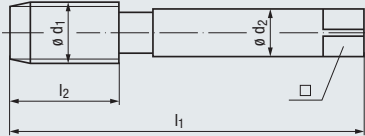
G (BSP)

DIN EN ISO 228



≈ DIN 5157

Für dünnwandige Messing-Rohre
For thin-walled brass tubes

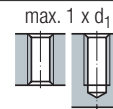


技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

▶▶ 78

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□	ねじ	AUT-A MS-R	AUT-A MS-R	AUT-A MS-R
G 1/8	9,73	28	63	18	7	5,5	8,8	A6622501.4035	A6622531.4035	A662254A.4035
1/4	13,16	19	70	20	10 ¹⁾	8	11,8	A6622501.4036	A6622531.4036	A662254A.4036
3/8	16,66	19	70	20	12	9	15,25	A6622501.4037	A6622531.4037	A662254A.4037
1/2	20,96	14	80	22	15 ¹⁾	12	19	A6622501.4038	A6622531.4038	A662254A.4038
3/4	26,44	14	90	22	18 ¹⁾	14,5	24,5	A6622501.4040	A6622531.4040	A662254A.4040
7/8	30,20	14	90	22	18 ¹⁾	14,5	28,25			
1"	33,25	11	100	25	18 ¹⁾	14,5	30,75	A6622501.4042	A6622531.4042	A662254A.4042
1 1/8	37,90	11	125	30	18 ¹⁾	14,5	35,5	A6622501.4043		
1 1/4	41,91	11	125	30	18 ¹⁾	14,5	39,5	A6622501.4044		
1 3/8	44,32	11	125	30	18 ¹⁾	14,5	41,75	A6622501.4045		
1 1/2	47,80	11	140	30	18 ¹⁾	14,5	45,25	A6622501.4046		

1) 特殊AUT-シャンク
Special shank for "AUT" taps

2) オーバーサイズタップ使用時は下穴径を0,05 または 0,1 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.05 resp. 0.1 mm



„X“	„X“ +0,05 2)	„X“ +0,1 2)
HSSE	HSSE	HSSE
max. 1	max. 1	max. 1
E	E	E

N 2.3, 2.6 **N 2.3, 2.6** **N 2.3, 2.6**

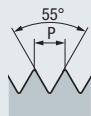


ねじゲージは541 - 594
ページをご覧ください。

Thread gauges,
see page 541 - 594

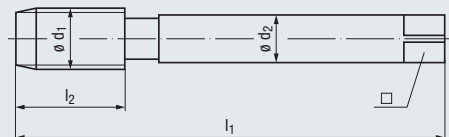
Rp (BSPP)

DIN EN 10226-1, ISO 7-1



DIN
5156

STEEL
鋼



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		Rekord 2A-STEEL
Rp 1/16	7,72	28	90	17	6	4,9	6,55	C0101001.4091
1/8	9,73	28	90	18	7	5,5	8,6	C0101001.4092
1/4	13,16	19	100	22	11	9	11,5	C0101001.4093
3/8	16,66	19	100	22	12	9	15	C0101001.4094
1/2	20,96	14	125	25	16	12	18,5	C0101001.4095
3/4	26,44	14	140	28	20	16	24	C0101001.4096
1"	33,25	11	160	30	25	20	30,25	C0101001.4097

最適なテーパ-おねじとの組み合わせは 535ページをご覧ください。
The appropriate external thread is tapered, see dies, page 535

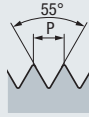
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



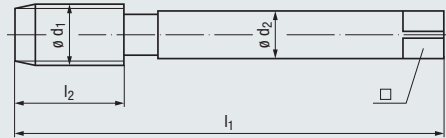
- Product Finder
- Vc
- M
- MF
- UNC UN-8
- UNF UNEF
- G Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

Rp (BSPP)

DIN EN 10226-1, ISO 7-1



DIN 5156



Z シングロ加工



NEW



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

HSSE	GLT-1
R45	HSSE
E / 1,5-2	E / 1,5-2
E / 0 / P	E / 0 / P

ねじ深さと穴形状
Thread depth and hole type

max. 3 x d₁



アプリケーション - 被削材
Applications - material 78

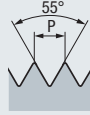
P 1.1-3.1	P 1.1-4.1
	M 1.1-4.1
	N 1.4, 2.1-2.2
	N 2.4-2.5
	S 1.1

呼び径 Nom. size	ϕd_1 mm	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	\square		Enorm 2-Z/E	Enorm 2-Z/E GLT-1
Rp 1/16	7,72	28	90	10	6	4,9	6,55	C0513500.4091	C051C400.4091
1/8	9,73	28	90	10	7	5,5	8,6	C0513500.4092	C051C400.4092
1/4	13,16	19	100	15	11	9	11,5	C0513500.4093	C051C400.4093
3/8	16,66	19	100	15	12	9	15	C0513500.4094	C051C400.4094
1/2	20,96	14	125	17	16	12	18,5	C0513500.4095	C051C400.4095
3/4	26,44	14	140	20	20	16	24	C0513500.4096	C051C400.4096
1"	33,25	11	160	24	25	20	30,25	C0513500.4097	C051C400.4097

テーパ-おねじとの組み合わせです。535ページをご覧ください。
The appropriate external thread is tapered, see dies, page 535

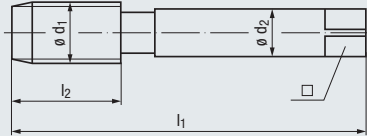
Rp (BSPP)

DIN EN 10226-1, ISO 7-1



≈ DIN 352

Für dünnwandige Messing-Rohre
For thin-walled brass tubes



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

呼び径 Nom. size	ϕd_1 mm	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	\square	
Rp 1/8	9,73	28	63	18	7	5,5	8,6
1/4	13,16	19	70	20	10 ¹⁾	8	11,5
3/8	16,66	19	70	20	12	9	15
1/2	20,96	14	80	22	15 ¹⁾	12	18,5
3/4	26,44	14	90	22	18 ¹⁾	14,5	24
1"	33,25	11	100	25	18 ¹⁾	14,5	30,25

MS
黄銅

„X“	„X“ +0,05 2)
HSSE	HSSE
max. 1	max. 1
E	E



N 2.3, 2.6	N 2.3, 2.6
-------------------	-------------------

AUT-A MS-R	AUT-A MS-R
A6622501.4092	A6622531.4092
A6622501.4093	A6622531.4093
A6622501.4094	A6622531.4094
A6622501.4095	A6622531.4095
A6622501.4096	A6622531.4096
A6622501.4097	A6622531.4097

Product Finder

- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp** NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



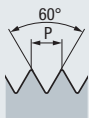
テーパ-おねじとの組み合わせです。535ページをご覧ください。
The appropriate external thread is tapered, see dies, page 535

- 1) 特殊AUT-シャンク
Special shank for "AUT" taps
- 2) オーバーサイズタップ使用時は下穴径を0,05 mm 大きくしてください
Increase drill diameter for taps with oversize by 0.05 mm

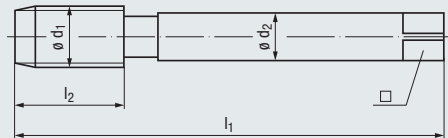
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

NPSM

ANSI B1.20.1



≈ DIN 5156



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

呼び径 Nom. size ϕd_1	ϕd_1 mm	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	□	NPSM	NPSC
1/8	10,100	27	90	18	7	5,5	9,1	8,8
1/4	13,404	18	100	22	11	9	12	11,4
3/8	16,843	18	100	22	12	9	15,5	14,9
1/2	20,949	14	125	25	16	12	19	18,4
3/4	26,296	14	140	28	20	16	24,5	23,7
1"	32,895	11 1/2	160	30	25	20	30,5	29,8

NPSM 用タップは NPSC ねじにも適用可能です
NPSM can also be used for NPSC thread

STEEL
鋼



Z
シンクロ加工

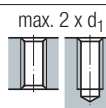


„X“

HSSE

C / 2-3

E / O



K 1.1-4.2
N 2.3

Rekord
2A-STEEL

C0101001.5858
C0101001.5859
C0101001.5860
C0101001.5861
C0101001.5862
C0101001.5863

max. 3 x d₁



P 1.1-3.1

P 1.1-4.1
M 1.1-4.1
N 1.4, 2.1-2.2
N 2.4-2.5
S 1.1

Enorm
2-Z/E

C0513500.5858
C0513500.5859
C0513500.5860
C0513500.5861
C0513500.5862
C0513500.5863

Enorm
2-Z/E
GLT-1

C051C400.5858
C051C400.5859
C051C400.5860
C051C400.5861
C051C400.5862
C051C400.5863



切削油は 300 - 301ページをご覧ください。

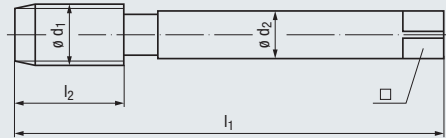
Coolant-lubricants, see page 300 - 301

NPSF

ANSI B1.20.3



≈ DIN 5156



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

▶▶ 78

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□	
1/16	7,582	27	90	17	6	4,9	6,35
1/8	9,929	27	90	18	7	5,5	8,7
1/4	13,236	18	100	22	11	9	11,3
3/8	16,673	18	100	22	12	9	14,75
1/2	20,819	14	125	25	16	12	18,2
3/4	26,166	14	140	28	20	16	23,5
1"	32,718	11 1/2	160	30	25	20	29,5

STEEL 鋼	Z シングロ加工
„X“	GLT-1
HSSE	HSSE
C / 2-3	R45
E / 0	E / 1,5-2
	E / 0 / P
max. 2 x d ₁	max. 3 x d ₁
K 1.1-4.2 N 2.3	P 1.1-3.1 P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1
Rekord 2A-STEEL	Enorm 2-Z/E Enorm 2-Z/E GLT-1
C0101001.5904 C0101001.5905 C0101001.5906 C0101001.5907 C0101001.5908 C0101001.5909 C0101001.5910	C0513500.5904 C0513500.5905 C0513500.5906 C0513500.5907 C0513500.5908 C0513500.5909 C0513500.5910
	C051C400.5904 C051C400.5905 C051C400.5906 C051C400.5907 C051C400.5908 C051C400.5909 C051C400.5910

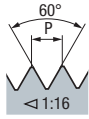
Product Finder

- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, R_D NPSM **NPSF**
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



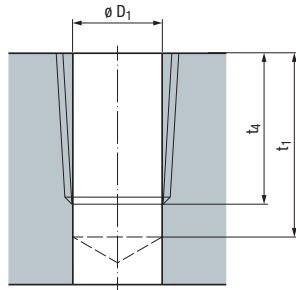
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT NPTF** Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

NPT



ANSI/ASME B1.20.1

a) 円筒形状の下穴
Cylindrical preparation of thread hole

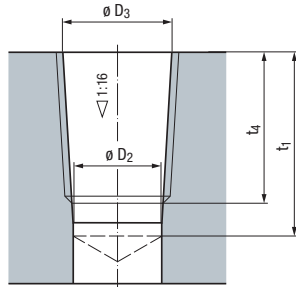


エムゲ NPT タップは下記 a) - c) のいずれかの下穴形状でご使用頂けます。航空機部品など、ねじ品質に対する要求が高いケースでは b) または c) の下穴形状を推奨しています。

EMUGE NPT taps are suited for the hole forms a) to c). For threads with higher demands, e.g. NPT threads for the aircraft industry, we recommend preparing the thread hole to form b), resp. c).

呼び径 Nom. size $\varnothing d_1$	P 山数 Gg/1" (tpi)	$\varnothing D_1$	t_1 1)	t_4
1/16	27	6,15	11,8	9,70
1/8	27	8,50	11,9	9,75
1/4	18	11,00	17,4	14,25
3/8	18	14,40	17,7	14,55
1/2	14	17,80	23,1	19,00
3/4	14	23,15	23,6	19,50
1"	11 1/2	29,05	28,4	23,40
1 1/4	11 1/2	37,80	28,9	23,90
1 1/2	11 1/2	43,85	28,9	23,90
2"	11 1/2	55,85	29,3	24,35

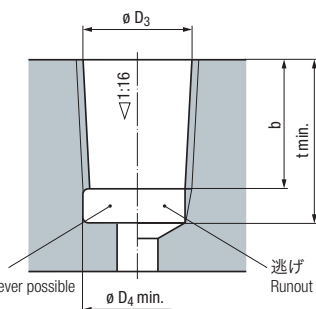
b) テーパー形状の下穴
Tapered preparation of thread hole



呼び径 Nom. size $\varnothing d_1$	P 山数 Gg/1" (tpi)	$\varnothing D_2$	$\varnothing D_3$ +0,05	t_1 1)	t_4
1/16	27	5,95	6,39	11,8	9,70
1/8	27	8,30	8,74	11,9	9,75
1/4	18	10,75	11,36	17,4	14,25
3/8	18	14,15	14,80	17,7	14,55
1/2	14	17,45	18,32	23,1	19,00
3/4	14	22,80	23,67	23,6	19,50
1"	11 1/2	28,65	29,69	28,4	23,40
1 1/4	11 1/2	37,35	38,45	28,9	23,90
1 1/2	11 1/2	43,45	44,52	28,9	23,90
2"	11 1/2	55,45	56,56	29,3	24,35

1) ドリル深さ t_1 は ASME 規格における L_1 および L_3 を考慮したもので、タップの食い付き長さとして 1-2 山のマージンを含みます。ASME B94.9 に準じた最大ねじ長さのタップを使用する場合、 t_1 はさらに深くする必要があります。
The drill depth t_1 takes into account the lengths L_1 and L_3 acc. ASME standards, the chamfer length of the tap and 1-2 threads safety margin. Deep drilling is necessary whenever taps with maximum thread length acc. ASME B94.9 are to be used.

c) 止まり穴
Preparation of blind holes



リセス形状を推奨します
We recommend using a recessed design wherever possible

呼び径 Nom. size $\varnothing d_1$	P 山数 Gg/1" (tpi)	$\varnothing D_3$ +0,05	b	t min. 2)	$\varnothing D_4$ min.
1/16	27	6,39	7,0	10,0	7,6
1/8	27	8,74	7,0	10,0	10,0
1/4	18	11,36	10,2	14,5	13,1
3/8	18	14,80	10,6	15,0	16,5
1/2	14	18,32	13,8	19,0	20,5
3/4	14	23,67	14,2	20,0	25,8
1"	11 1/2	29,69	17,0	24,0	32,2
1 1/4	11 1/2	38,45	17,5	24,5	41,0
1 1/2	11 1/2	44,52	17,5	24,5	47,2
2"	11 1/2	56,56	18,0	25,0	59,2

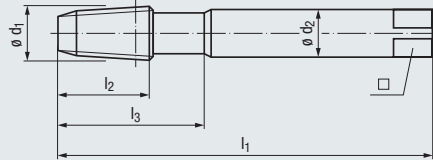
2) 下穴径は ASME 規格に準じた最小長さを基準にしています。t で示された最小深さを確保できない止まり穴の場合は、特殊のタップが必要になります。その場合、特殊タップの設計にあたってねじの図面をご提供ください。
The thread hole dimensions are based on minimal lengths acc. ASME standards. For blind holes which do not permit the indicated minimal depth t, special taps are necessary. A thread hole sketch with full dimensional specifications is necessary for making a decision.

NPT



ANSI/ASME B1.20.1

≈ DIN 371



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファー・
切削油・

アプリケーション - 被削材
Applications - material

呼び径 Nom. size	P 山数 Gg/1" (tpi)	l_1	l_2	l_3	ϕd_2	\square
1/16	27	90	12	26	8	6,2
1/8	27	90	12	26	10	8
1/4	18	100	18	34,5	14	11
3/8	18	110	18	37,5	18	14,5
1/2	14	140	23	45	22	18

≈ DIN 374		
≈ DIN 2181		

STEEL
鋼



VA
ステンレス



HSSE
C / 2-3
E / O

HSSE
C / 2-3
E / O / P

HSSE
C / 2-3
E / O / P

P 3.1
K 1.1-1.2
N 2.3

P 2.1-4.1
K 2.1-4.2
N 1.5, 2.6

P 2.1-4.1
K 2.1-4.2
N 1.5, 2.6

Rekord 1-KEG-STEEL
B0181000.5763
B0181000.5764
B0181000.5765

Rekord 1-KEG-VA
B0183000.5763
B0183000.5764
B0183000.5765

Rekord 1-KEG-VA-AZ
B0193000.5763
B0193000.5764
B0193000.5765

NPT ねじの下穴径については 248 ページをご覧ください。
Thread hole preparatory diameters for NPT threads, see page 248

ANSI B94.9 準拠の長ねじ用タップも特殊製作致します。
Tapered taps with long thread length acc. ANSI B94.9 upon request



1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads

 265

- Product Finder
- Vc
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



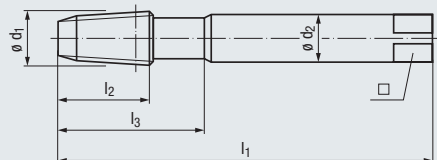
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT NPTF**
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



NPT

ANSI/ASME B1.20.1

≈ DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

アプリケーション – 被削材 ▶▶ 78
Applications – material

呼び径 Nom. size	P 山数 Gg/1" (tpi)	l_1	l_2	l_3	ϕd_2	\square	Rekord 1-KEG-R35-VA	Rekord 1-KEG-R35-VA-AZ	Rekord 1-KEG-R10-NI PM-TiCN
1/16	27	90	12	26	8	6,2	B1583000.5763	B1593000.5763	
1/8	27	90	12	26	10	8	B1583000.5764	B1593000.5764	B670J400.5764
1/4	18	100	18	34,5	14	11	B1583000.5765	B1593000.5765	B670J400.5765
3/8	18	110	18	37,5	18	14,5			B670J400.5766
1/2	14	140	23	45	22	18			B670J400.5767

≈ DIN 374

252

≈ DIN 2181

252

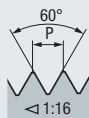
NPT ねじの下穴径については 248 ページをご覧ください。
Thread hole preparatory diameters for NPT threads, see page 248

ANSI B94.9 準拠の長ねじ用タップも特殊製作致します。
Tapered taps with long thread length acc. ANSI B94.9 upon request

1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads ▶▶ 265

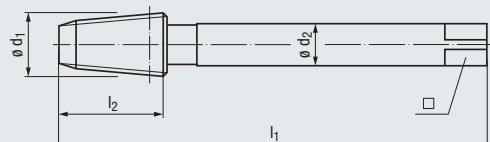
VA ステンレス		NI ニッケル基合金
HSSE	HSSE	TiCN
R35	R35	HSSE 粉末
C / 2-3	C / 2-3	R10
E / 0 / P	E / 0 / P	C / 2-3
		0 / P
P 1.1-3.1	P 1.1-3.1	N 2.8
M 1.1-3.1	M 1.1-3.1	S 2.3, 2.5-2.6

NPT



ANSI/ASME B1.20.1

≈ DIN 374



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファー
切削油

アプリケーション - 被削材
Applications - material

呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	\square	Rekord 2-KEG-STEEL	Rekord 2-KEG-VA	Rekord 2-KEG-VA-AZ
3/8	18	110	18	14	11	C0181000.5766	C0183000.5766	C0193000.5766
1/2	14	140	23	16	12	C0181000.5767	C0183000.5767	C0193000.5767
3/4	14	150	24	20	16	C0181000.5768	C0183000.5768	C0193000.5768
1"	11 1/2	170	30	25	20	C0181000.5769	C0183000.5769	C0193000.5769
1 1/4	11 1/2	190	32	32	24	C0181000.5770		
1 1/2	11 1/2	200	32	36	29	C0181000.5771		
2"	11 1/2	220	34	45	35	C0181000.5772		

≈ DIN 371



249

249

249

≈ DIN 2181



253

NPT ねじの下穴径については 248 ページをご覧ください。
Thread hole preparatory diameters for NPT threads, see page 248

ANSI B94.9 準拠の長ねじ用タップも特殊製作致します。
Tapered taps with long thread length acc. ANSI B94.9 upon request



1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads

265

STEEL
鋼



VA
ステンレス



HSSE

C / 2-3

E / O

P 3.1
K 1.1-1.2
N 2.3

HSSE

C / 2-3

E / O / P

P 2.1-4.1
K 2.1-4.2
N 1.5, 2.6

HSSE

C / 2-3

E / O / P

P 2.1-4.1
K 2.1-4.2
N 1.5, 2.6

Product
Finder

Vc

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

Zubehör
Accessories

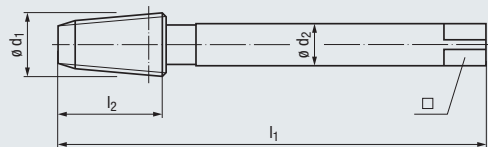


- Product Finder
- Vc
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT NPTF** Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



NPT
ANSI/ASME B1.20.1

≈ DIN 374



VA
ステンレス



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファァー・
切削油・

HSSE	HSSE
R35	R35
C / 2-3	C / 2-3
E / O / P	E / O / P

アプリケーション - 被削材
Applications - material [▶▶ 78](#)

P 1.1-3.1	P 1.1-3.1
M 1.1-3.1	M 1.1-3.1

呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	\square	Rekord 2-KEG-R35-VA	Rekord 2-KEG-R35-VA-AZ
3/8	18	110	18	14	11	C1583000.5766	C1593000.5766
1/2	14	140	23	16	12	C1583000.5767	C1593000.5767
3/4	14	150	24	20	16	C1583000.5768	C1593000.5768
1"	11 1/2	170	30	25	20	C1583000.5769	C1593000.5769
1 1/4	11 1/2	190	32	32	24	C1583000.5770	C1593000.5770
1 1/2	11 1/2	200	32	36	29	C1583000.5771	C1593000.5771
2"	11 1/2	220	34	45	35	C1583000.5772	C1593000.5772
≈ DIN 371						▶▶ 250	▶▶ 250
≈ DIN 2181							

NPT ねじの下穴径については 248 ページをご覧ください。
Thread hole preparatory diameters for NPT threads, see page 248

ANSI B94.9 準拠の長ねじ用タップも特殊製作致します。
Tapered taps with long thread length acc. ANSI B94.9 upon request

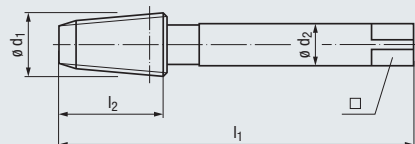
1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads [▶▶ 265](#)



NPT

ANSI/ASME B1.20.1

≈ DIN 2181



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material
チャンファァー
切削油

アプリケーション - 被削材
Applications - material

呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	\square	Rekord KEG-STEEL	Rekord KEG-STEEL-AZ
1/16	27	63	12	6	4,9	A0181000.5763	A0191000.5763
1/8	27	63	12	7	5,5	A0181000.5764	A0191000.5764
1/4	18	63	18	11	9	A0181000.5765	A0191000.5765
3/8	18	70	18	12	9	A0181000.5766	A0191000.5766
1/2	14	80	23	16	12	A0181000.5767	A0191000.5767
3/4	14	100	24	20	16	A0181000.5768	A0191000.5768
1"	11 1/2	110	30	25	20	A0181000.5769	A0191000.5769
1 1/4	11 1/2	125	32	32	24	A0181000.5770	A0191000.5770
1 1/2	11 1/2	140	32	36	29	A0181000.5771	A0191000.5771
2"	11 1/2	160	34	45	35	A0181000.5772	A0191000.5772

≈ DIN 371

≈ DIN 374

NPT ねじの下穴径については 248 ページをご覧ください。
Thread hole preparatory diameters for NPT threads, see page 248

ANSI B94.9 準拠の長ねじ用タップも特殊製作致します。
Tapered taps with long thread length acc. ANSI B94.9 upon request



1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads

▶▶ 265

STEEL
鋼



HSSE	HSSE
C / 2-3	C / 2-3
E / 0	E / 0

P 3.1	P 3.1
K 1.1-1.2	K 1.1-1.2
N 2.3	N 2.3

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



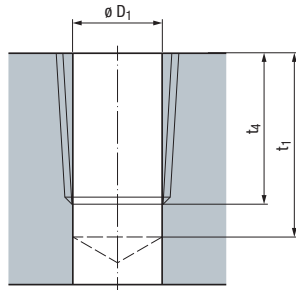
- Product Finder
- Vc
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

NPTF



ANSI B1.20.3

a) 円筒形状の下穴 Cylindrical preparation of thread hole

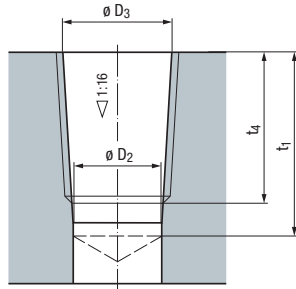


エムゲ NPTF タップは下記 a) - c) のいずれかの下穴形状でご使用頂けます。航空機部品など、ねじ品質に対する要求が高いケースでは b) または c) の下穴形状を推奨しています。

EMUGE NPTF taps are suited for the hole forms a) to c). For threads with higher demands, e.g. NPTF threads for the aircraft industry, we recommend preparing the thread hole to form b), resp. c).

呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	ϕD_1	t_1 1)	t_4
1/16	27	6,10	13,0	10,65
1/8	27	8,45	13,0	10,70
1/4	18	10,90	19,2	15,65
3/8	18	14,30	19,5	16,00
1/2	14	17,60	25,4	20,85
3/4	14	23,00	25,9	21,30
1"	11 1/2	28,75	31,1	25,60
1 1/4	11 1/2	37,50	31,7	26,15
1 1/2	11 1/2	43,75	31,7	26,15
2"	11 1/2	55,75	32,1	26,55

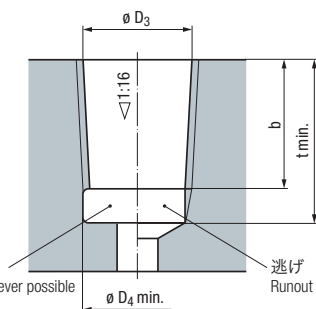
b) テーパー形状の下穴 Tapered preparation of thread hole



呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	ϕD_2	ϕD_3 +0,05	t_1 1)	t_4
1/16	27	5,95	6,41	13,0	10,65
1/8	27	8,30	8,76	13,0	10,70
1/4	18	10,75	11,40	19,2	15,65
3/8	18	14,15	14,84	19,5	16,00
1/2	14	17,45	18,33	25,4	20,85
3/4	14	22,80	23,68	25,9	21,30
1"	11 1/2	28,65	29,72	31,1	25,60
1 1/4	11 1/2	37,35	38,48	31,7	26,15
1 1/2	11 1/2	43,45	44,55	31,7	26,15
2"	11 1/2	55,45	56,59	32,1	26,55

1) ドリル深さ t_1 は ASME 規格における L_1 および L_3 を考慮したもので、タップの食い付き長さとして 1-2 山のマージンを含みます。ASME B94.9 に準じた最大ねじ長さのタップを使用する場合、 t_1 はさらに深くする必要があります。
The drill depth t_1 takes into account the lengths L_1 and L_3 acc. ASME standards, the chamfer length of the tap and 1-2 threads safety margin. Deep drilling is necessary whenever taps with maximum thread length acc. ASME B94.9 are to be used.

c) 止まり穴 Preparation of blind holes



リセス形状を推奨します
We recommend using a recessed design wherever possible

呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	ϕD_3 +0,05	b	t min. 2)	ϕD_4 min.
1/16	27	6,41	8,0	11,0	7,4
1/8	27	8,76	8,0	11,0	9,8
1/4	18	11,40	11,6	15,5	12,9
3/8	18	14,84	12,0	16,0	16,3
1/2	14	18,33	15,6	20,5	20,3
3/4	14	23,68	16,0	21,5	25,6
1"	11 1/2	29,72	19,2	26,0	32,0
1 1/4	11 1/2	38,48	19,7	26,5	40,8
1 1/2	11 1/2	44,55	19,7	26,5	47,0
2"	11 1/2	56,59	20,2	27,0	59,0

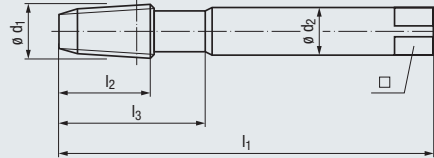
2) 下穴径は ASME 規格に準じた最小長さを基準にしています。t で示された最小深さを確保できない止まり穴の場合は、特殊のタップが必要になります。その場合、特殊タップの設計にあたってねじの図面をご提供ください。
The thread hole dimensions are based on minimal lengths acc. ASME standards. For blind holes which do not permit the indicated minimal depth t, special taps are necessary. A thread hole sketch with full dimensional specifications is necessary for making a decision.

NPTF

ANSI B1.20.3



≈ DIN 371



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファァー・ 切削油・

アプリケーション - 被削材
Applications - material 78

呼び径 Nom. size	P 山数 Gg/1" (tpi)	l_1	l_2	l_3	ϕd_2	\square
1/16	27	90	12	26	8	6,2
1/8	27	90	12	26	10	8
1/4	18	100	18	34,5	14	11
3/8	18	110	18	37,5	18	14,5
1/2	14	140	23	45	22	18

≈ DIN 374
≈ DIN 2181

STEEL
鋼



HSSE
C / 2-3
E / O

P 3.1
K 1.1-1.2
N 2.3

**Rekord
1-KEG-STEEL**
B0181000.5782
B0181000.5783
B0181000.5784

257
 258

VA
ステンレス



HSSE
C / 2-3
E / O / P

P 2.1-4.1
K 2.1-4.2
N 1.5, 2.6

**Rekord
1-KEG-VA**
B0183000.5782
B0183000.5783
B0183000.5784

257

Product Finder

Vc
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



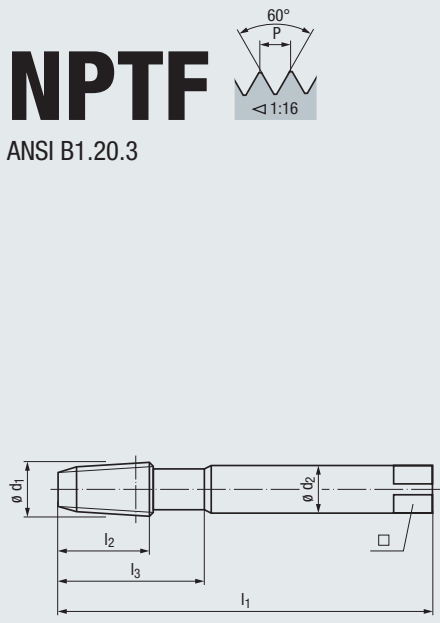
NPTF ねじの下穴径については 254 ページをご覧ください。
Thread hole preparatory diameters for NPTF threads, see page 254

ANSI B94.9 ANSI B94.9 準拠の長ねじ用タップも特殊製作致します。
Tapered taps with long thread length acc. ANSI B94.9 upon request



1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads 265

- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF**
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories





≈ DIN 371

NI
ニッケル基合金




技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 
切削油 · 

- TICN
- HSSE 粉末**
- R10
- C / 2-3
- O / P


アプリケーション – 被削材
Applications – material [▶▶ 78](#)

- N 2.8**
- S 2.3, 2.5-2.6**

呼び径 Nom. size $\varnothing d_1$	P 山数 Gg/1" (tpi)	l_1	l_2	l_3	$\varnothing d_2$	\square	Rekord 1-KEG-R10-NI PM-TICN
1/16	27	90	12	26	8	6,2	
1/8	27	90	12	26	10	8	B670J400.5783
1/4	18	100	18	34,5	14	11	B670J400.5784
3/8	18	110	18	37,5	18	14,5	B670J400.5785
1/2	14	140	23	45	22	18	B670J400.5786

NPTF ねじの下穴径については 254 ページをご覧ください。
Thread hole preparatory diameters for NPTF threads, see page 254

ANSI B94.9 ANSI B94.9 準拠の長ねじ用タップも特殊製作致します。
Tapered taps with long thread length acc. ANSI B94.9 upon request

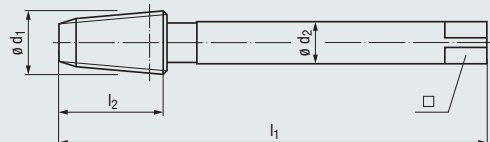
 1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads [▶▶ 265](#)

NPTF

ANSI B1.20.3



≈ DIN 374





技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファー
切削油

アプリケーション - 被削材
Applications - material

呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	\square	Rekord 2-KEG-STEEL	Rekord 2-KEG-VA	Rekord 2-KEG-R35-VA	
3/8	18	110	18	14	11	C0181000.5785	C0183000.5785	C1583000.5785	
1/2	14	140	23	16	12	C0181000.5786	C0183000.5786	C1583000.5786	
3/4	14	150	24	20	16	C0181000.5787	C0183000.5787	C1583000.5787	
1"	11 1/2	170	30	25	20	C0181000.5788	C0183000.5788	C1583000.5788	
1 1/4	11 1/2	190	32	32	24	C0181000.5789		C1583000.5789	
1 1/2	11 1/2	200	32	36	29	C0181000.5790		C1583000.5790	
2"	11 1/2	220	34	45	35	C0181000.5791		C1583000.5791	
≈ DIN 371							255	255	255
≈ DIN 2181							258		

NPTF ねじの下穴径については 254 ページをご覧ください。
Thread hole preparatory diameters for NPTF threads, see page 254

ANSI B94.9 ANSI B94.9 準拠の長ねじ用タップも特殊製作致します。
Tapered taps with long thread length acc. ANSI B94.9 upon request

 1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads



管用テーパーねじ用ねじ切りカッター GF-KEG シリーズは 449 - 462 ページをご覧ください

Thread milling cutters for tapered threads type GF-KEG, see page 449 - 462

- Product Finder
- Vc
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

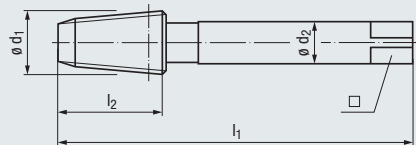


NPTF

ANSI B1.20.3

≈ DIN 2181

STEEL
鋼



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

- HSSE
- C / 2-3
- E / 0

アプリケーション – 被削材
Applications – material [▶▶ 78](#)

- P** 3.1
- K** 1.1-1.2
- N** 2.3

呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	□	Rekord KEG-STEEL
1/16	27	63	12	6	4,9	A0181000.5782
1/8	27	63	12	7	5,5	A0181000.5783
1/4	18	63	18	11	9	A0181000.5784
3/8	18	70	18	12	9	A0181000.5785
1/2	14	80	23	16	12	A0181000.5786
3/4	14	100	24	20	16	A0181000.5787
1"	11 1/2	110	30	25	20	A0181000.5788
1 1/4	11 1/2	125	32	32	24	A0181000.5789
1 1/2	11 1/2	140	32	36	29	A0181000.5790
2"	11 1/2	160	34	45	35	A0181000.5791

≈ DIN 371 [▶▶ 255](#)

≈ DIN 374 [▶▶ 257](#)

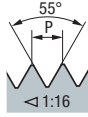
NPTF ねじの下穴径については 254 ページをご覧ください。
Thread hole preparatory diameters for NPTF threads, see page 254

ANSI B94.9 ANSI B94.9 準拠の長ねじ用タップも特殊製作致します。
Tapered taps with long thread length acc. ANSI B94.9 upon request

1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads [▶▶ 265](#)

Rc (BSPT)

DIN EN 10226-2, ISO 7-1



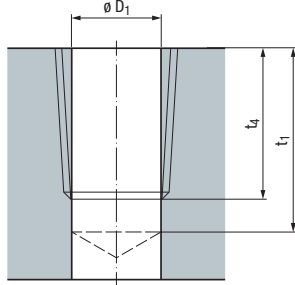
エムゲ Rcタップは下記 a) - c) のいずれかの下穴形状でご使用頂けます。シーリングが問題になるリスクがない高いケースでは a) の下穴形状を適用できます。

EMUGE Rc taps are suited for the hole forms a) to c).

Hole type a) can be used when there is no reason to worry about sealing problems.

a) 円筒形状の下穴

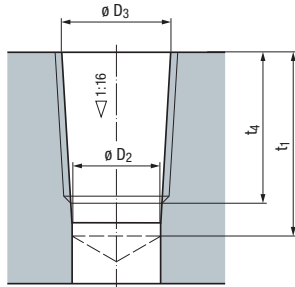
Cylindrical preparation of thread hole



呼び径 Nom. size $\varnothing d_1$	P 山数 Gg/1" (tpi)	$\varnothing D_1$	t_1	t_4
Rc 1/16	28	6,15	11,1	9,5
1/8	28	8,15	11,1	9,5
1/4	19	10,85	16,3	14,0
3/8	19	14,30	16,7	14,4
1/2	14	17,80	22,3	19,1
3/4	14	23,20	23,6	20,4
1"	11	29,20	28,3	24,3

b) テーパー形状の下穴

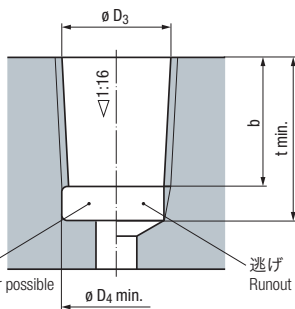
Tapered preparation of thread hole



呼び径 Nom. size $\varnothing d_1$	P 山数 Gg/1" (tpi)	$\varnothing D_2$	$\varnothing D_3$ JS11	t_1	t_4
Rc 1/16	28	6,10	6,56	11,1	9,5
1/8	28	8,10	8,57	11,1	9,5
1/4	19	10,75	11,45	16,3	14,0
3/8	19	14,25	14,95	16,7	14,4
1/2	14	17,70	18,63	22,3	19,1
3/4	14	23,10	24,12	23,6	20,4
1"	11	29,10	30,29	28,3	24,3

c) 止まり穴

Preparation of blind holes



呼び径 Nom. size $\varnothing d_1$	P 山数 Gg/1" (tpi)	$\varnothing D_3$ JS11	b	t min. 2)	$\varnothing D_4$ min.
Rc 1/16	28	6,56	5,6	9,9	7,6 +0,3
1/8	28	8,57	5,6	9,9	9,6 +0,3
1/4	19	11,45	8,4	14,6	13,0 +0,5
3/8	19	14,95	8,8	15,0	16,5 +0,5
1/2	14	18,63	11,4	20,0	20,6 +0,5
3/4	14	24,12	12,7	21,3	26,0 +0,5
1"	11	30,29	14,5	25,4	32,8 +0,5

リセス形状を推奨します

We recommend using a recessed design wherever possible

逃げ
Runout

2) 止まり穴で指定の深さ t を確保できない場合、特殊タップが必要になります。その場合、特殊タップの設計にあたって、ねじ穴形状のスケッチと諸寸法をご提供ください。

For blind holes which do not permit the indicated minimal depth t, special taps are necessary.

A thread hole sketch with full dimensional specifications is necessary for making a decision.

Product Finder

Vc

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

Zubehör
Accessories



- Product Finder
- Vc
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

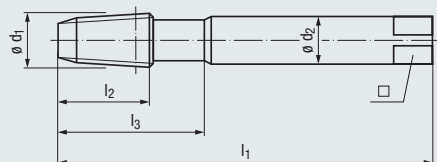
Rc (BSPT)

DIN EN 10226-2, ISO 7-1



≈ DIN 371

VA
ステンレス



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

HSSE

C / 2-3

E / O / P

アプリケーション – 被削材
Applications – material 78

- P** 2.1-4.1
- K** 2.1-4.2
- N** 1.5, 2.6

Rekord
1-KEG-VA

呼び径 Nom. size $\varnothing d_1$	P 山数 Gg/1" (tpi)	l_1	l_2	l_3	$\varnothing d_2$	\square
Rc 1/8	28	90	12	26	10	8
1/4	19	100	18	34,5	14	11

B0183000.4115
B0183000.4116

≈ DIN 374

261

Rc ねじの下穴径については 259 ページをご覧ください。
Thread hole preparatory diameters for Rc threads, see page 259



1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads

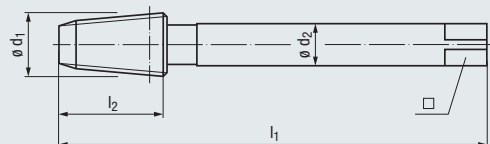
265

Rc (BSPT)

DIN EN 10226-2, ISO 7-1



≈ DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

アプリケーション – 被削材
Applications – material

呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	\square	Rekord 2-KEG-VA
Rc 1/4	19	100	18	11	9	C0183000.4116
3/8	19	110	18	14	11	C0183000.4117
1/2	14	140	23	16	12	C0183000.4118
3/4	14	150	24	20	16	C0183000.4119
1"	11	170	30	25	20	C0183000.4120

≈ DIN 371



260

Rc ねじの下穴径については 259 ページをご覧ください。
Thread hole preparatory diameters for Rc threads, see page 259



1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads

265

VA
ステンレス



HSSE

C / 2-3

E / O / P

P 2.1-4.1

K 2.1-4.2

N 1.5, 2.6

Product
Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

Zubehör
Accessories



- Product Finder
- Vc
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

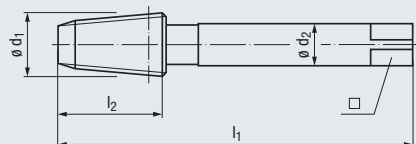
Rc (BSPT)

DIN EN 10226-2, ISO 7-1



≈ DIN 2181

STEEL
鋼



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

- HSSE
- C / 2-3
- E / 0

アプリケーション – 被削材
Applications – material [▶▶ 78](#)

- P** 3.1
- K** 1.1-1.2
- N** 2.3

呼び径 Nom. size ϕd_1	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	\square	Rekord KEG-STEEL
Rc 1/16	28	63	12	6	4,9	A0181000.4114
1/8	28	63	12	7	5,5	A0181000.4115
1/4	19	63	18	11	9	A0181000.4116
3/8	19	70	18	12	9	A0181000.4117
1/2	14	80	23	16	12	A0181000.4118
3/4	14	100	24	20	16	A0181000.4119
1"	11	110	30	25	20	A0181000.4120

Rc ねじの下穴径については 259 ページをご覧ください。
Thread hole preparatory diameters for Rc threads, see page 259



1:16 テーパーリーマー
Taper reamers 1:16 for tapered threads

[▶▶ 265](#)

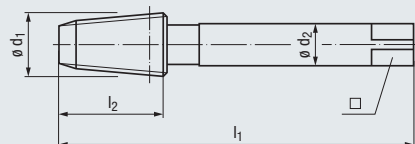


管用テーパーねじ用のねじゲージ
は 573 - 575 ページをご覧ください。

Thread gauges for tapered threads,
see page 573 - 575

W keg

DIN EN ISO 11363
DIN 477 テーパー · tapered



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

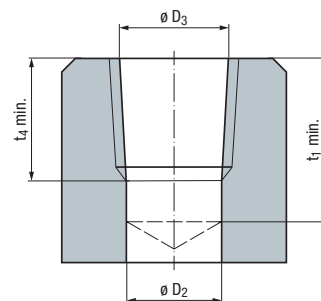
チャンファー ·
切削油 ·

アプリケーション – 被削材
Applications – material 78

STEEL
鋼



テーパー下穴形状
Tapered preparation of the thread hole



- P** 3.1
- K** 1.1-1.2
- N** 2.3

**Rekord
KEG-STEEL**

ϕd_1	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2		Rekord KEG-STEEL	ϕD_2	ϕD_3 $\pm 0,06$	t_1 min.	t_4 min.
17E / W 19,8	14	95	30	16	12	A0181000.3286	14,6	16,82	24,5	22,5
25E / W 28,8	14	100	35	22	18	A0181000.3287	22,6	25,42	29,5	27,5

Product
Finder

v_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

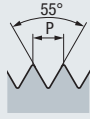
Zubehör
Accessories



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

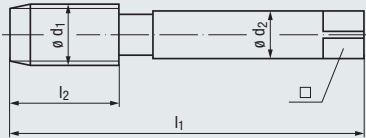
W zyl

DIN 477 平行 · cylindrical



≈ DIN 5157

MS
黄銅



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

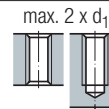
„X“

HSSE

C / 2-3

E

ねじ深さと穴形状
Thread depth and hole type



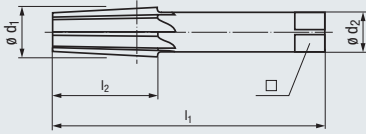
N 2.3

アプリケーション – 被削材
Applications – material ▶▶ 78

Rekord A-MS

	$\varnothing d_1$ mm	P 山数 Gg/1" (tpi)	l_1	l_2	$\varnothing d_2$					
W	21,8	14	80	22	18	14,5	19,8	A0102501.3284		
	24,32	14	90	22	18	14,5	22,3	A0102501.3285		

NPT, NPTF, Rc (BSPT), 1:16 管用テーパねじ用
For tapered pipe threads NPT, NPTF, Rc (BSPT), taper 1:16



技術情報
Technical information

母材 · Cutting material

呼び径 Nom. size $\varnothing d_1$	l_1	l_2	$\varnothing d_2$	□	Z (Flutes)	母材 · Cutting material		
						HSSE	HSSE L7	
						KEG-RB 1:16 Form A	KEG-RB 1:16 Form B	
1/16	70	17	6	4,9	6	G0037165.5763	G0037175.5763	
1/8	70	17	7	5,5	6	G0037165.5764	G0037175.5764	
1/4	80	27	11	9	6	G0037165.5765	G0037175.5765	
3/8	85	27	12	9	8	G0037165.5766	G0037175.5766	
1/2	95	35	16	12	8	G0037165.5767	G0037175.5767	
3/4	105	35	20	16	10	G0037165.5768	G0037175.5768	
1"	130	43	25	20	10	G0037165.5769	G0037175.5769	
1 1/4	140	44	32	24	12	G0037165.5770	G0037175.5770	
1 1/2	150	45	36	29	12	G0037165.5771	G0037175.5771	
2"	160	46	45	35	14	G0037165.5772	G0037175.5772	

ご要望に応じてリーマーの刃長を穴深さに合わせることも可能です。
Please note: If needed, the reamers can be fitted to the required hole depth by shortening the cutting part.

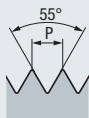
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



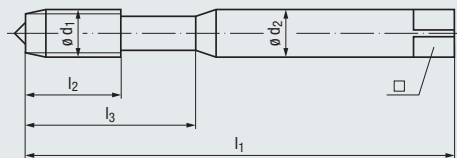
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

BSW

BS 84



≈ DIN 371



VA
ステンレス



Z
シンクロ加工



new



l₂ ≈ 10 x P



l₂ ≈ 10 x P

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information

チャンファア · 切削油 ·

med.
GLT-1
HSSE
B / 4-5
E / O / P

med.
GLT-1
HSSE
R45
C / 2-3
E / O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

P 1.1-4.1
M 1.1-4.1
N 2.2

P 1.1-3.1
P 1.1-4.1
M 1.1-4.1
N 1.4, 2.1-2.2
N 2.4-2.5
S 1.1

	∅ d ₁ inch	∅ d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	∅ d ₂	□	
BSW	1/8	3,18	40	56	11	18	3,5	2,7	2,55
	5/32	3,97	32	63	13	21	4,5	3,4	3,2
	3/16	4,76	24	70	15	25	6	4,9	3,7
	7/32	5,56	24	80	16	30	6	4,9	4,5
	1/4	6,35	20	80	17	30	7	5,5	5,1
	5/16	7,94	18	90	20	35	8	6,2	6,5
	3/8	9,53	16	100	22	39	10	8	7,9

≈ DIN 376



Rekord
1B-VA
GLT-1

B020C300.3046
B020C300.3047
B020C300.3048
B020C300.3049
B020C300.3050
B020C300.3051
B020C300.3052

267

Enorm
1-Z

B0503500.3046
B0503500.3047
B0503500.3048
B0503500.3049
B0503500.3050
B0503500.3051
B0503500.3052

268

Enorm
1-Z
GLT-1

B050C400.3046
B050C400.3047
B050C400.3048
B050C400.3049
B050C400.3050
B050C400.3051
B050C400.3052

268

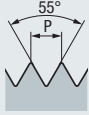


SFM タップホルダーは 699 - 704 ページをご覧ください。

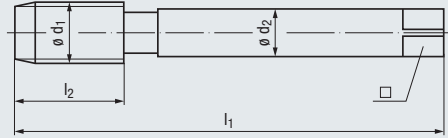
Quick-change tap holders of our SFM series, see page 699 - 704

BSW

BS 84



≈ DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

	ϕd_1 inch	ϕd_1 mm	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	\square	
BSW	7/16	11,11	14	100	22	8	6,2	9,25
	1/2	12,70	12	110	25	9	7	10,5
	9/16	14,29	12	110	26	11	9	12
	5/8	15,88	11	110	27	12	9	13,5
	3/4	19,05	10	125	30	14	11	16,4
	7/8	22,23	9	140	32	18	14,5	19,25
	1"	25,40	8	160	36	18	14,5	22
	1 1/8	28,58	7	180	40	22	18	24,75
	1 1/4	31,75	7	180	40	22	18	27,75
	1 3/8	34,93	6	200	50	28	22	30,5
	1 1/2	38,10	6	200	50	28	22	33,5
	1 3/4	44,45	5	220	58	36	29	39
	2"	50,80	4 1/2	250	65	40	32	44,5

≈ DIN 371

STEEL
鋼



med.

HSSE
R35
C / 2-3
E / 0

max. 2,5 x d_1



P 1.1-3.1
N 2.2

Enorm
2-STEEL

C0501000.3064
C0501000.3065
C0501000.3066
C0501000.3070

VA
ステンレス



med.

GLT-1
HSSE

B / 4-5
E / 0 / P

max. 3 x d_1



P 1.1-4.1
M 1.1-4.1
N 2.2

Rekord
2B-VA
GLT-1

C020C300.3053
C020C300.3054
C020C300.3055
C020C300.3056
C020C300.3058
C020C300.3060
C020C300.3062

266

Product
Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

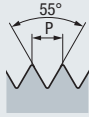
Zubehör
Accessories



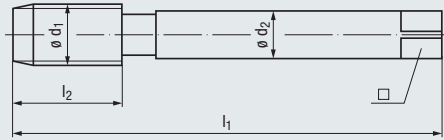
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

BSW

BS 84



≈ DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

max. 3 x d₁



P 1.1-3.1	P 1.1-4.1
	M 1.1-4.1
	N 1.4, 2.1-2.2
	N 2.4-2.5
	S 1.1

	ϕd_1 inch	ϕd_1 mm	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2			Enorm 2-Z	Enorm 2-Z GLT-1
BSW	7/16	11,11	14	100	18	8	6,2	9,25	C0503500.3053	C050C400.3053
	1/2	12,70	12	110	20	9	7	10,5	C0503500.3054	C050C400.3054
	9/16	14,29	12	110	20	11	9	12		
	5/8	15,88	11	110	22	12	9	13,5	C0503500.3056	C050C400.3056
	3/4	19,05	10	125	25	14	11	16,4	C0503500.3058	C050C400.3058
	7/8	22,23	9	140	27	18	14,5	19,25	C0503500.3060	
	1"	25,40	8	160	30	18	14,5	22	C0503500.3062	C050C400.3062
	1 1/8	28,58	7	180	35	22	18	24,75	C0503500.3063	
	1 1/4	31,75	7	180	35	22	18	27,75		
	1 3/8	34,93	6	200	40	28	22	30,5		
	1 1/2	38,10	6	200	40	28	22	33,5		
	1 3/4	44,45	5	220	45	36	29	39		
	2"	50,80	4 1/2	250	50	40	32	44,5		

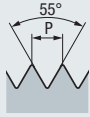
≈ DIN 371

266

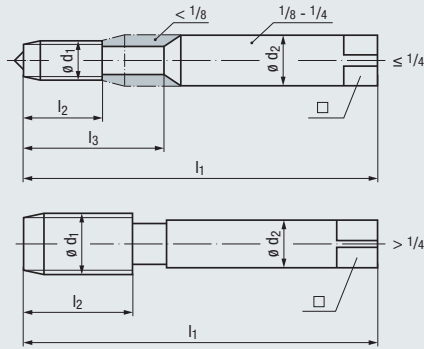
266

BSW

BS 84



≈ DIN 352



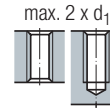
技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

HSSE	HSSE	med. „X“ HSSE	med. „X“ HSSE
A / 5-6 O / P	D / 3-4 O / P	C / 2-3 O / P	C / 2-3 O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション – 被削材
Applications – material 78

P 1.1-3.1	P 1.1-3.1	P 1.1-3.1	P 1.1-3.1
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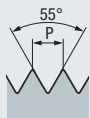
BSW	ø d ₁ inch	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂	□		HGB-Set V-Nr.1	HGB-Set M-Nr.2	HGB-Set F	HGB-Set-3S (Nr.1, Nr.2, F)
										1/16	1,59	60	32
1/8	3,18	40	40	10	18	3,5	2,7	2,55	H0111019.3046	H0111029.3046	H0111001.3046	H0101001.3046	
5/32	3,97	32	45	12	22	4,5	3,4	3,2	H0111019.3048	H0111029.3048	H0111001.3048	H0101001.3048	
3/16	4,76	24	50	14	25	6	4,9	3,7	H0111019.3050	H0111029.3050	H0111001.3050	H0101001.3050	
7/32	5,56	24	56	16	28	6	4,9	4,5	H0111019.3051	H0111029.3051	H0111001.3051	H0101001.3051	
1/4	6,35	20	56	16	28	6	4,9	5,1	H0111019.3052	H0111029.3052	H0111001.3052	H0101001.3052	
5/16	7,94	18	63	20	—	6	4,9	6,5	H0111019.3053	H0111029.3053	H0111001.3053	H0101001.3053	
3/8	9,53	16	70	22	—	7	5,5	7,9	H0111019.3054	H0111029.3054	H0111001.3054	H0101001.3054	
7/16	11,11	14	70	22	—	8	6,2	9,25	H0111019.3056	H0111029.3056	H0111001.3056	H0101001.3056	
1/2	12,70	12	75	25	—	9	7	10,5	H0111019.3058	H0111029.3058	H0111001.3058	H0101001.3058	
9/16	14,29	12	80	26	—	11	9	12	H0111019.3062	H0111029.3062	H0111001.3062	H0101001.3062	
5/8	15,88	11	80	27	—	12	9	13,5	H0111019.3063	H0111029.3063	H0111001.3063	H0101001.3063	
3/4	19,05	10	95	32	—	14	11	16,4	H0111019.3064	H0111029.3064	H0111001.3064	H0101001.3064	
7/8	22,23	9	100	32	—	18	14,5	19,25	H0111019.3065	H0111029.3065	H0111001.3065	H0101001.3065	
1"	25,40	8	110	36	—	18	14,5	22	H0111019.3066	H0111029.3066	H0111001.3066	H0101001.3066	
1 1/8	28,58	7	125	40	—	22	18	24,75					
1 1/4	31,75	7	125	40	—	22	18	27,75					
1 3/8	34,93	6	150	50	—	28	22	30,5					
1 1/2	38,10	6	150	50	—	28	22	33,5					
1 3/4	44,45	5	160	58	—	36	29	39					
2"	50,80	4 1/2	180	65	—	40	32	44,5					

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF**
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

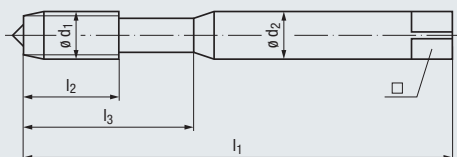
BSF



BS 84

≈ DIN 371

STEEL
鋼



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

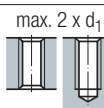
med. „X“

HSSE

C / 2-3

E / 0

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

K 1.1-4.2
N 2.3

	∅ d ₁ inch	∅ d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	∅ d ₂	□	
BSF	1/4	6,35	26	80	17	30	7	5,5	5,3
	5/16	7,94	22	90	17	35	8	6,2	6,8
	3/8	9,53	20	100	18	39	10	8	8,3

**Rekord
1A-STEEL**

B0101001.3090
B0101001.3092
B0101001.3093

≈ DIN 374

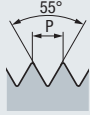


ソフトシンクロ タップホルダーは
617 - 644ページをご覧ください。

Tool holders of our Softsynchro® series,
see page 617 - 644

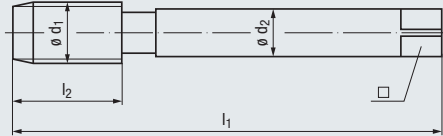
BSF

BS 84



≈ DIN 374

STEEL
鋼



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

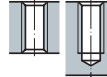
med. „X“

HSSE

C / 2-3

E / 0

max. 2 x d₁



K 1.1-4.2

N 2.3

**Rekord
2A-STEEL**

	ϕd_1 inch	ϕd_1 mm	P 山数 Gg/1" (tpi)	l_1	l_2	ϕd_2	□		
BSF	7/16	11,11	18	100	22	8	6,2	9,7	C0101001.3094
	1/2	12,70	16	100	22	9	7	11,1	C0101001.3095
	5/8	15,88	14	110	27	12	9	14	C0101001.3097
	3/4	19,05	12	125	27	14	11	16,75	C0101001.3099
	7/8	22,23	11	140	32	18	14,5	19,75	C0101001.3101
	1"	25,40	10	160	36	18	14,5	22,75	C0101001.3102

≈ DIN 371

270

Product
Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

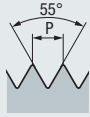
Tr, Tr-F
Rd

Zubehör
Accessories



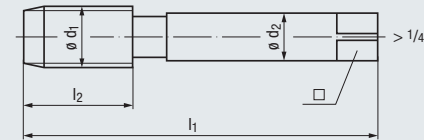
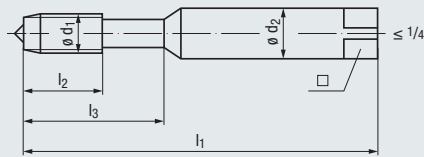
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF**
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

BSF



≈ DIN 352

BS 84



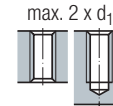
公差 · Tolerance
 コーティング · Coating
 母材 · Cutting material

技術情報
 Technical information

チャンファー ·
 切削油 ·

		med. „X“	med. „X“
HSSE	HSSE	HSSE	HSSE
A / 5-6	D / 3-4	C / 2-3	C / 2-3
O / P	O / P	O / P	O / P

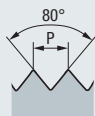
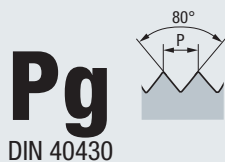
ねじ深さと穴形状
 Thread depth and hole type



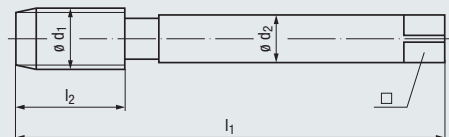
アプリケーション – 被削材
 Applications – material

P 1.1-3.1	P 1.1-3.1	P 1.1-3.1	P 1.1-3.1
-----------	-----------	-----------	-----------

	ø d ₁ inch	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂	□		HGB-Set	HGB-Set	HGB-Set	HGB-Set-3S
										V-Nr.1	M-Nr.2	F	(Nr.1, Nr.2, F)
BSF	3/16	4,76	32	50	14	25	6	4,9	4	H0111019.3088	H0111029.3088	H0111001.3088	H0101001.3088
	1/4	6,35	26	56	16	28	6	4,9	5,3	H0111019.3090	H0111029.3090	H0111001.3090	H0101001.3090
	5/16	7,94	22	63	17	–	6	4,9	6,8	H0111019.3092	H0111029.3092	H0111001.3092	H0101001.3092
	3/8	9,53	20	70	22	–	7	5,5	8,3	H0111019.3093	H0111029.3093	H0111001.3093	H0101001.3093
	7/16	11,11	18	70	22	–	8	6,2	9,7	H0111019.3094	H0111029.3094	H0111001.3094	H0101001.3094
	1/2	12,70	16	70	20	–	9	7	11,1	H0111019.3095	H0111029.3095	H0111001.3095	H0101001.3095
	5/8	15,88	14	80	27	–	12	9	14	H0111019.3097	H0111029.3097	H0111001.3097	H0101001.3097
	3/4	19,05	12	80	22	–	14	11	16,75	H0111019.3099	H0111029.3099	H0111001.3099	H0101001.3099
	7/8	22,23	11	80	22	–	18	14,5	19,75				
	1"	25,40	10	110	36	–	18	14,5	22,75	H0111019.3102	H0111029.3102	H0111001.3102	H0101001.3102



DIN
40433



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂			
					□			
Pg	7	12,5	20	100	22	9	7	11,35
	9	15,2	18	100	22	12	9	13,95
	11	18,6	18	110	25	14	11	17,35
	13,5	20,4	18	125	25	16	12	19,15
	16	22,5	18	125	25	18	14,5	21,25
	21	28,3	16	150	28	22	18	26,95
	29	37,0	16	170	30	28	22	35,6
	36	47,0	16	190	32	36	29	45,6
	42	54,0	16	190	32	40	32	52,6
	48	59,3	16	220	36	45	35	57,9

STEEL
鋼



H
高強度鋼



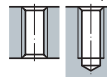
„X“

HSSE

C / 2-3

E / O

max. 2 x d₁



K 1.1-4.2
N 2.3

Rekord
2A-STEEL

C0101001.4153
C0101001.4154
C0101001.4155
C0101001.4156
C0101001.4157
C0101001.4158
C0101001.4159
C0101001.4160
C0101001.4161
C0101001.4162

„X“

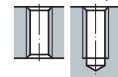
NT

HSSE

C / 2-3

E / O / P

max. 2 x d₁



K 1.1-4.2
N 4.1

Rekord
2A-H
NT

C0100501.4153
C0100501.4154
C0100501.4155
C0100501.4156
C0100501.4157
C0100501.4158
C0100501.4159

Product
Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

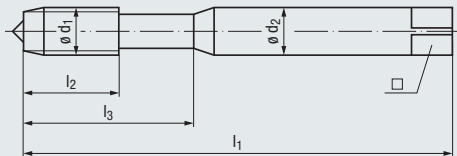
Zubehör
Accessories



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ** UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



DIN ISO 5855



DIN 371

AL
アルミ合金
展伸材



NEW



$l_2 \approx 10 \times P$

TI
チタン合金



技術情報 Technical information	公差 · Tolerance	4H
	コーティング · Coating	GLT-104
アプリケーション - 被削材 Applications - material	母材 · Cutting material	HSSE
	チャンファー · Chamfer	R45
	切削油 · Cutting oil	C / 2-3
		E / O

ねじ深さと穴形状
Thread depth and hole type

max. 2,5 x d₁



max. 3 x d₁



max. 2 x d₁



アプリケーション - 被削材
Applications - material

N 1.1-1.4, 2.1

P 4.1-5.1

M 3.1-4.1

N 2.4-2.5, 2.7

S 1.1-2.2, 2.4

P 4.1-5.1

M 3.1-4.1

N 2.4-2.5, 2.7

S 1.1-2.2, 2.4

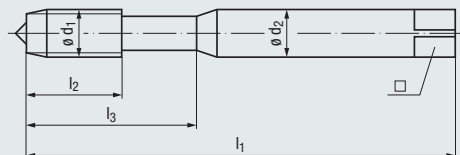
MJ	ϕd_1 mm	P mm	l_1	l_2	l_3	ϕd_2	□	Image	Enorm 1-AL GLT-104	Rekord 1C-TI TICN	Rekord 1D-TI TICN
									B0503G10.1229	B0309611.1229	B0459611.1229
	3	x 0,5	56	11	18	3,5	2,7	2,6	B0503G10.1231	B0309611.1231	B0459611.1231
	4	x 0,7	63	13	21	4,5	3,4	3,4	B0503G10.1232	B0309611.1232	B0459611.1232
	5	x 0,8	70	15	25	6	4,9	4,3	B0503G10.1233	B0309611.1233	B0459611.1233
	6	x 1	80	17	30	6	4,9	5,1	B0503G10.1235	B0309611.1235	B0459611.1235
	8	x 1	90	17	35	8	6,2	7,1	B0503G10.2026	B0309611.2026	B0459611.2026
	8	x 1,25	90	20	35	8	6,2	6,9	B0503G10.1236	B0309611.1236	B0459611.1236
	10	x 1,25	100	18	39	10	8	8,9	B0503G10.2308	B0309611.2308	B0459611.2308
	10	x 1,5	100	22	39	10	8	8,6			



DIN ISO 5855

DIN 371

NI
ニッケル基金金



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファア ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

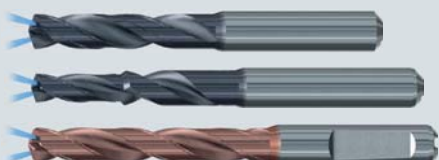
MJ	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□		Rekord 1C-Ni PM-TiCN	Rekord 1DF-Ni PM-TiCN
	3	x 0,5	56	11	18	3,5	2,7	2,6	B030J411.1229	B438J411.1229
	4	x 0,7	63	13	21	4,5	3,4	3,4	B030J411.1231	B438J411.1231
	5	x 0,8	70	15	25	6	4,9	4,3	B030J411.1232	B438J411.1232
	6	x 1	80	17	30	6	4,9	5,1	B030J411.1233	B438J411.1233
	8	x 1	90	17	35	8	6,2	7,1	B030J411.1235	B438J411.1235
	8	x 1,25	90	20	35	8	6,2	6,9	B030J411.2026	B438J411.2026
	10	x 1,25	100	18	39	10	8	8,9	B030J411.1236	B438J411.1236
	10	x 1,5	100	22	39	10	8	8,6	B030J411.2308	B438J411.2308

4HX	4HX
TiCN	TiCN
HSSE 粉末	HSSE 粉末
L08	R10
D / 4-5	C / 2-3
O / P	O / P

max. 3 x d ₁	max. 2 x d ₁

N 2.8	N 2.8
S 2.3, 2.5-2.6	S 2.3, 2.5-2.6

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



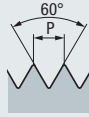
超硬ドリルは 11 - 70 ページを
ご覧ください。

Twist drills, see page 11 - 70

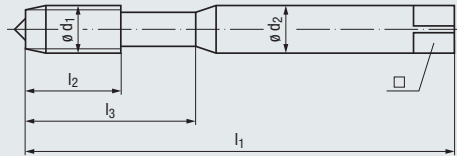
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

UNJC

ASME B1.1 1)



≈ DIN
371



AL
アルミ合金
展伸材



NEW



TI
チタン合金

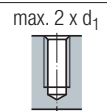
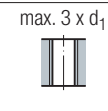
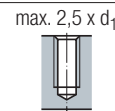


技術情報 Technical information	公差 · Tolerance	3B
	コーティング · Coating	GLT-104
チャンファー · 切削油 ·	母材 · Cutting material	HSSE
		R45
		C / 2-3
		E / O

3B
GLT-104
HSSE
R45
C / 2-3
E / O

3BX	3BX
TICN	TICN
HSSE	HSSE
L15	R15
D / 4-5	C / 2-3
E / O / P	E / O / P

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

N 1.1-1.4, 2.1

P 4.1-5.1	P 4.1-5.1
M 3.1-4.1	M 3.1-4.1
N 2.4-2.5, 2.7	N 2.4-2.5, 2.7
S 1.1-2.2, 2.4	S 1.1-2.2, 2.4

Nr.	ø d ₁		P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂		□	Enorm 1-AL GLT-104	Rekord 1C-TI TICN	Rekord 1D-TI TICN
	inch	mm					mm	mm				
Nr. 4	0.1120	2.85	40	56	11	18	3,5	2,7	2,3	B0503G10.5479	B0309611.5479	B0459611.5479
Nr. 6	0.1380	3.50	32	56	12	20	4	3	2,85	B0503G10.5481	B0309611.5481	B0459611.5481
Nr. 8	0.1640	4.15	32	63	13	21	4,5	3,4	3,5	B0503G10.5482	B0309611.5482	B0459611.5482
Nr. 10	0.1900	4.80	24	70	15	25	6	4,9	3,9	B0503G10.5483	B0309611.5483	B0459611.5483
1/4	0.2500	6.35	20	80	17	30	7	5,5	5,25	B0503G10.5485	B0309611.5485	B0459611.5485
5/16	0.3125	7.92	18	90	20	35	8	6,2	6,7	B0503G10.5486	B0309611.5486	B0459611.5486
3/8	0.3750	9.52	16	100	22	39	10	8	8,1	B0503G10.5487	B0309611.5487	B0459611.5487

1) 旧 ASME B1.15
formerly ASME B1.15

NI ニッケル基合金		Z シンク口加工					
3BX	3BX	3B	3B				
TICN	TICN	HSSE	GLT-1				
HSSE 粉末	HSSE 粉末	R45	HSSE				
L08	R10	C / 2-3	R45				
D / 4-5	C / 2-3	E / O / P	C / 2-3				
O / P	O / P	E / O / P	E / O / P				
max. 3 x d ₁	max. 2 x d ₁	max. 3 x d ₁					
N 2.8	N 2.8	P 1.1-3.1	P 1.1-4.1				
S 2.3, 2.5-2.6	S 2.3, 2.5-2.6		M 1.1-4.1				
			N 1.4, 2.1-2.2				
			N 2.4-2.5				
			S 1.1				
Rekord 1C-NI	Rekord 1DF-NI	Enorm 1-Z	Enorm 1-Z				
PM-TICN	PM-TICN	GLT-1					
B030J411.5479	B438J411.5479	B0503510.5479	B050C410.5479				Nr. 4 - 40
B030J411.5481	B438J411.5481	B0503510.5481	B050C410.5481				Nr. 6 - 32
B030J411.5482	B438J411.5482	B0503510.5482	B050C410.5482				Nr. 8 - 32
B030J411.5483	B438J411.5483	B0503510.5483	B050C410.5483				Nr. 10 - 24
B030J411.5485	B438J411.5485	B0503510.5485	B050C410.5485				1/4 - 20
B030J411.5486	B438J411.5486	B0503510.5486	B050C410.5486				5/16 - 18
B030J411.5487	B438J411.5487	B0503510.5487	B050C410.5487				3/8 - 16

Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



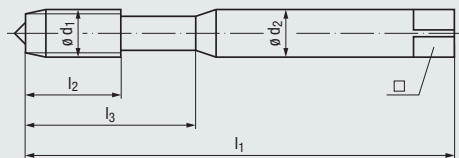
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



UNJF

ASME B1.1 1)

≈ DIN
371



AL
アルミ合金
炭伸材



NEW



l₂ ≈ 10 x P

TI
チタン合金



技術情報
Technical information

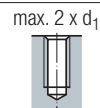
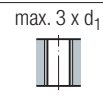
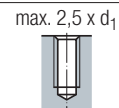
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

- 3B
- GLT-104
- HSSE
- R45
- C / 2-3
- E / O

- | | |
|-----------|-----------|
| 3BX | 3BX |
| TICN | TICN |
| HSSE | HSSE |
| L15 | R15 |
| D / 4-5 | C / 2-3 |
| E / O / P | E / O / P |

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

▶ 78

N 1.1-1.4, 2.1

- | | |
|-----------------------|-----------------------|
| P 4.1-5.1 | P 4.1-5.1 |
| M 3.1-4.1 | M 3.1-4.1 |
| N 2.4-2.5, 2.7 | N 2.4-2.5, 2.7 |
| S 1.1-2.2, 2.4 | S 1.1-2.2, 2.4 |

Nr.	ø d ₁		P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂		□	Enorm 1-AL GLT-104	Rekord 1C-TI TICN	Rekord 1D-TI TICN
	inch	inch										
Nr. 4	0.1120	48	56	11	18	3,5	2,7	2,4		B0503G10.5505	B0309611.5505	B0459611.5505
Nr. 6	0.1380	40	56	12	20	4	3	3		B0503G10.5507	B0309611.5507	B0459611.5507
Nr. 8	0.1640	36	63	13	21	4,5	3,4	3,55		B0503G10.5508	B0309611.5508	B0459611.5508
Nr. 10	0.1900	32	70	15	25	6	4,9	4,15		B0503G10.5509	B0309611.5509	B0459611.5509
1/4	0.2500	28	80	17	30	7	5,5	5,55		B0503G10.5511	B0309611.5511	B0459611.5511
5/16	0.3125	24	90	17	35	8	6,2	7		B0503G10.5512	B0309611.5512	B0459611.5512
3/8	0.3750	24	90	18	35	10	8	8,6		B0503G10.5513	B0309611.5513	B0459611.5513

1) 旧 ASME B1.15
formerly ASME B1.15



増速タップホルダー スピードシンクロ
モジュラー NFC は 646 - 648 ページを
ご覧ください。

Collet holders with integrated transmission
of our Speedsynchro® Modular NFC series,
see page 646 - 648

NI ニッケル基合金		Z シングロ加工					
3BX	3BX	3B	3B				
TICN	TICN	HSSE	GLT-1				
HSSE 粉末	HSSE 粉末	R45	HSSE				
L08	R10	C / 2-3	R45				
D / 4-5	C / 2-3	E / O / P	C / 2-3				
O / P	O / P	E / O / P	E / O / P				
max. 3 x d ₁	max. 2 x d ₁	max. 3 x d ₁					
N 2.8	N 2.8	P 1.1-3.1	P 1.1-4.1				
S 2.3, 2.5-2.6	S 2.3, 2.5-2.6		M 1.1-4.1				
			N 1.4, 2.1-2.2				
			N 2.4-2.5				
			S 1.1				
Rekord 1C-NI	Rekord 1DF-NI	Enorm 1-Z	Enorm 1-Z				
PM-TICN	PM-TICN	GLT-1					
B030J411.5505	B438J411.5505	B0503510.5505	B050C410.5505				Nr. 4 - 48
B030J411.5507	B438J411.5507	B0503510.5507	B050C410.5507				Nr. 6 - 40
B030J411.5508	B438J411.5508	B0503510.5508	B050C410.5508				Nr. 8 - 36
B030J411.5509	B438J411.5509	B0503510.5509	B050C410.5509				Nr. 10 - 32
B030J411.5511	B438J411.5511	B0503510.5511	B050C410.5511				1/4 - 28
B030J411.5512	B438J411.5512	B0503510.5512	B050C410.5512				5/16 - 24
B030J411.5513	B438J411.5513	B0503510.5513	B050C410.5513				3/8 - 24

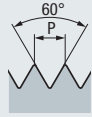
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



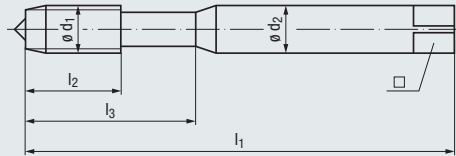
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

EG M (STI)

DIN 8140-2



DIN 40435



VA
ステンレス



AL
アルミ合金
展伸材



NEW



公差 · Tolerance
コーティング · Coating
母材 · Cutting material

技術情報
Technical information

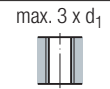
チャンファ · Chamfer
切削油 · Cutting oil

6H mod.
GLT-1
HSSE
B / 4-5
E / O / P

6H mod.
HSSE
B / ≈3
E / O

6H mod.
GLT-104
HSSE
B / ≈3
E / O

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material

78

P 1.1-4.1
M 1.1-4.1
N 2.2








N 1.4 N 1.1-1.4, 2.1

呼び径 Nom. size ø d ₁	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□	Rekord 1B-VA GLT-1	Rekord 1B-AL	Rekord 1B-AL GLT-104	
EG M 2,5	3,085	0,45	56	11	18	3,5	2,7	2,65	B020C300.0965	B0204500.0965	B0203G00.0965
3	3,650	0,5	63	10	21	4,5	3,4	3,15	B020C300.0966	B0204500.0966	B0203G00.0966
4	4,910	0,7	70	12	25	6	4,9	4,2	B020C300.0968	B0204500.0968	B0203G00.0968
5	6,040	0,8	80	13	30	6	4,9	5,25	B020C300.0970	B0204500.0970	B0203G00.0970
6	7,300	1	90	17	35	8	6,2	6,3	B020C300.0971	B0204500.0971	B0203G00.0971
8	9,624	1,25	100	18	39	10	8	8,4	B020C300.0973	B0204500.0973	B0203G00.0973

DIN 40435



282

AL アルミ合金 展伸材		Z シンク口加工					
 new l ₂ ≈ 10 x P	 new l ₂ ≈ 10 x P	 new l ₂ ≈ 10 x P	 new l ₂ ≈ 10 x P	 new l ₂ ≈ 10 x P			
6H mod. GLT-104 HSSE R45 C / 2-3 E / O	6H mod. HSSE R45 C / 2-3 E / O / P	6H mod. GLT-1 HSSE R45 C / 2-3 E / O / P	6H mod. GLT-1 HSSE R45 C / 2-3 E / 1,5-2 E / O / P	6H mod. GLT-1 HSSE R45 E / 1,5-2 E / O / P			
max. 2,5 x d ₁ 	max. 3 x d ₁ 						
N 1.1-1.4, 2.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1	P 1.1-3.1	P 1.1-4.1 M 1.1-4.1 N 1.4, 2.1-2.2 N 2.4-2.5 S 1.1			
Enorm 1-AL GLT-104	Enorm 1-Z	Enorm 1-Z GLT-1	Enorm 1-Z/E	Enorm 1-Z/E GLT-1			
B0503G00.0965 B0503G00.0966 B0503G00.0968 B0503G00.0970 B0503G00.0971 B0503G00.0973	B0503500.0965 B0503500.0966 B0503500.0968 B0503500.0970 B0503500.0971 B0503500.0973	B050C400.0965 B050C400.0966 B050C400.0968 B050C400.0970 B050C400.0971 B050C400.0973	B0513500.0965 B0513500.0966 B0513500.0968 B0513500.0970 B0513500.0971 B0513500.0973	B051C400.0965 B051C400.0966 B051C400.0968 B051C400.0970 B051C400.0971 B051C400.0973			EG M 2,5 3 4 5 6 8
📄 282	📄 283	📄 283	📄 283	📄 283			

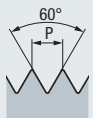
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



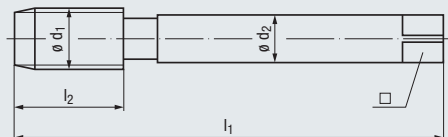
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

EG M (STI)

DIN 8140-2



DIN 40435



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material ▶▶ 78

呼び径 Nom. size ϕd_1	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	\square	
EG M 10	11,948	1,5	100	22	9	7	10,5
12	14,274	1,75	110	26	11	9	12,5
14	16,598	2	110	27	12	9	14,5
16	18,598	2	125	27	14	11	16,5
18	21,248	2,5	140	32	18	14,5	18,75
20	23,248	2,5	160	34	18	14,5	20,75

DIN 40435



VA
ステンレス



AL
アルミ合金
展伸材



6H mod.
GLT-1
HSSE

B / 4-5
E / O / P

max. 3 x d_1



P 1.1-4.1
M 1.1-4.1
N 2.2

Rekord
2B-VA
GLT-1

C020C300.0975
C020C300.0977
C020C300.0979
C020C300.0981

280

6H mod.
GLT-104
HSSE

R35
C / 2-3
E / O

max. 2,5 x d_1



N 1.1-1.4, 2.1

Enorm
2-AL
GLT-104

C0503G00.0975
C0503G00.0977

281

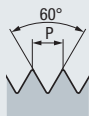


EG-M ねじ用の BGF ねじ切りカッターは 386 - 387 ページをご覧ください。

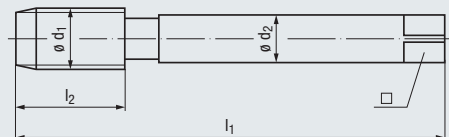
Drill thread mills for Metric STI thread, see page 386 - 387

EG M (STI)

DIN 8140-2



DIN 40435



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

呼び径 Nom. size ø d ₁	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□	
EG M 10	11,948	1,5	100	15	9	7	10,5
12	14,274	1,75	110	20	11	9	12,5
14	16,598	2	110	20	12	9	14,5
16	18,598	2	125	20	14	11	16,5
18	21,248	2,5	140	27	18	14,5	18,75
20	23,248	2,5	160	30	18	14,5	20,75

DIN 40435

Z
シングロ加工



new



new



6H mod.

6H mod.

6H mod.

6H mod.

HSSE

GLT-1

HSSE

GLT-1

R45

R45

R45

R45

C / 2-3

C / 2-3

E / 1,5-2

E / 1,5-2

E / O / P

E / O / P

E / O / P

E / O / P

max. 3 x d₁



P 1.1-3.1

P 1.1-4.1

P 1.1-3.1

P 1.1-4.1

M 1.1-4.1

M 1.1-4.1

N 1.4, 2.1-2.2

N 1.4, 2.1-2.2

N 2.4-2.5

N 2.4-2.5

S 1.1

S 1.1

Enorm
2-Z

Enorm
2-Z
GLT-1

Enorm
2-Z/E

Enorm
2-Z/E
GLT-1

C0503500.0975

C050C400.0975

C0513500.0975

C051C400.0975

C0503500.0977

C050C400.0977

C0513500.0977

C051C400.0977

C0503500.0979

C050C400.0979

C0513500.0979

C051C400.0979

C0503500.0981

C050C400.0981

C0513500.0981

C051C400.0981

281

281

281

281

Product Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp

NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ

UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

Zubehör

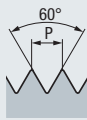
Accessories



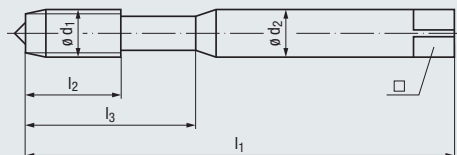
- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

EG UNC (STI)

ASME B18.29.1



≈ DIN 371



VA
ステンレス



AL
アルミ合金
展伸材



NEW



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

- 2B
- GLT-1
- HSSE
- B / 4-5
- E / O / P

- 2B
- GLT-104
- HSSE
- R45
- C / 2-3
- E / O

max. 3 x d₁



max. 2,5 x d₁



- P** 1.1-4.1
- M** 1.1-4.1
- N** 2.2

- N** 1.1-1.4, 2.1

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	寸法						□	Rekord 1B-VA GLT-1	Enorm 1-AL GLT-104
			l ₁	l ₂	l ₃	ø d ₂	φ	φ			
EG	Nr. 4	3,671	40	63	13	21	4,5	3,4	3,1	B020C300.5611	B0503G00.5611
	Nr. 6	4,536	32	70	14	25	6	4,9	3,8	B020C300.5613	B0503G00.5613
	Nr. 8	5,197	32	80	16	30	6	4,9	4,4	B020C300.5614	B0503G00.5614
	Nr. 10	6,200	24	80	17	30	7	5,5	5,2	B020C300.5615	B0503G00.5615
	1/4	8,002	20	90	20	35	8	6,2	6,7	B020C300.5617	B0503G00.5617
5/16	9,771	18	100	22	39	10	8	8,4	B020C300.5618	B0503G00.5618	

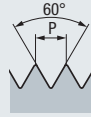
≈ DIN 376



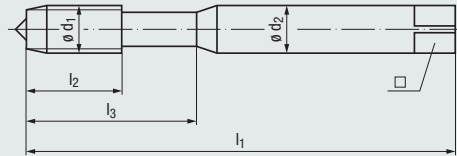
286

EG UNC (STI)

ASME B18.29.1



≈ DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂	□			
									Enorm 1-Z/E	Enorm 1-Z/E GLT-1
EG Nr. 4	3,671	40	63	7	21	4,5	3,4	3,1	B0513500.5611	B051C400.5611
Nr. 6	4,536	32	70	8	25	6	4,9	3,8	B0513500.5613	B051C400.5613
Nr. 8	5,197	32	80	8	30	6	4,9	4,4	B0513500.5614	B051C400.5614
Nr. 10	6,200	24	80	10	30	7	5,5	5,2	B0513500.5615	B051C400.5615
1/4	8,002	20	90	14	35	8	6,2	6,7	B0513500.5617	B051C400.5617
5/16	9,771	18	100	16	39	10	8	8,4	B0513500.5618	B051C400.5618

≈ DIN 376

Z
シングロ加工



new



2B

2B

GLT-1

HSSE

HSSE

R45

R45

E / 1,5-2

E / 1,5-2

E / O / P

E / O / P

max. 3 x d₁



P 1.1-3.1

P 1.1-4.1

M 1.1-4.1

N 1.4, 2.1-2.2

N 2.4-2.5

S 1.1

Enorm 1-Z/E

Enorm 1-Z/E GLT-1

B0513500.5611

B051C400.5611

B0513500.5613

B051C400.5613

B0513500.5614

B051C400.5614

B0513500.5615

B051C400.5615

B0513500.5617

B051C400.5617

B0513500.5618

B051C400.5618

286

286

Product Finder

V_c

M

MF

UNC UN-8

UNF UNEF

G, Rp NPSM, NPSF

NPT, NPTF Rc, W

BSW, BSF

Pg

MJ UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F Rd

Zubehör Accessories



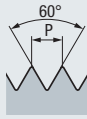
切削油は 300 - 301 ページを
ご覧ください。

Coolant-lubricants, see page 300 - 301

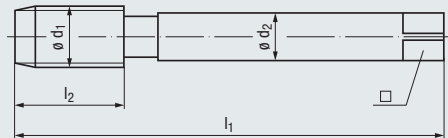
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

EG UNC (STI)

ASME B18.29.1



≈ DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		Rekord 2B-VA GLT-1	Enorm 2-Z/E	Enorm 2-Z/E GLT-1
EG 3/8	11,587	16	100	22	9	7	10	C020C300.5619	C0513500.5619	C051C400.5619
7/16	13,469	14	110	26	11	9	11,6	C020C300.5620	C0513500.5620	C051C400.5620
1/2	15,237	13	110	27	12	9	13,3	C020C300.5621	C0513500.5621	C051C400.5621
9/16	17,039	12	110	27	12	9	14,9	C020C300.5622	C0513500.5622	C051C400.5622
5/8	18,875	11	125	30	14	11	16,5	C020C300.5623	C0513500.5623	C051C400.5623
3/4	22,349	10	140	32	18	14,5	19,75	C020C300.5624	C0513500.5624	C051C400.5624

≈ DIN 371

VA
ステンレス



Z
シンクロ加工



- 2B
- GLT-1
- HSSE
- B / 4-5
- E / O / P

max. 3 x d₁

- P 1.1-4.1
- M 1.1-4.1
- N 2.2

- 2B
- GLT-1
- HSSE
- R45
- E / 1,5-2
- E / O / P

max. 3 x d₁

- P 1.1-3.1
- P 1.1-4.1
- M 1.1-4.1
- N 1.4, 2.1-2.2
- N 2.4-2.5
- S 1.1

284

285

285

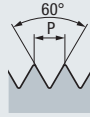


超硬ドリルは 11 - 70 ページを
ご覧ください。

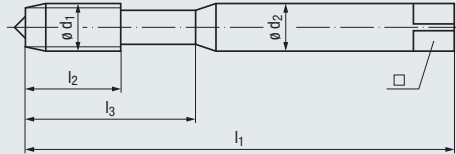
Twist drills, see page 11 - 70

EG UNF (STI)

ASME B18.29.1



≈ DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファァー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material 78

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	l ₃	ø d ₂	□			
									Rekord 1B-VA GLT-1	Enorm 1-AL GLT-104
EG Nr. 4	3,533	48	56	9	20	4	3	3	B020C300.5633	B0503G00.5633
Nr. 6	4,330	40	70	11	25	6	4,9	3,7	B020C300.5635	B0503G00.5635
Nr. 8	5,083	36	80	13	30	6	4,9	4,4	B020C300.5636	B0503G00.5636
Nr. 10	5,858	32	80	13	30	6	4,9	5,1	B020C300.5637	B0503G00.5637
1/4	7,528	28	90	17	35	8	6,2	6,6	B020C300.5639	B0503G00.5639
5/16	9,312	24	90	18	35	10	8	8,25	B020C300.5640	B0503G00.5640

≈ DIN 374

VA
ステンレス



AL
アルミ合金
展伸材



2B
GLT-1
HSSE
B / 4-5
E / O / P

max. 3 x d₁



2B
GLT-104
HSSE
R45
C / 2-3
E / O

max. 2,5 x d₁



P 1.1-4.1
M 1.1-4.1
N 2.2

N 1.1-1.4, 2.1

Rekord 1B-VA GLT-1

Enorm 1-AL GLT-104

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Product Finder

V_c

M

MF

UNC UN-8

UNF UNEF

G, Rp NPSM, NPSF

NPT, NPTF Rc, W

BSW, BSF

Pg

MJ UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F Rd

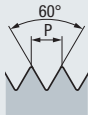
Zubehör Accessories



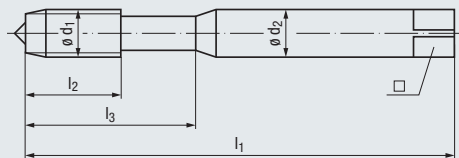
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)**
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

EG UNF (STI)

ASME B18.29.1



≈ DIN 371



Z
シングロ加工



NEW



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファ ·
切削油 ·

2B	2B
HSSE	GLT-1
R45	HSSE
E / 1,5-2	E / 1,5-2
E / O / P	E / O / P

ねじ深さと穴形状
Thread depth and hole type

max. 3 x d₁



アプリケーション - 被削材
Applications - material 78

P 1.1-3.1	P 1.1-4.1
	M 1.1-4.1
	N 1.4, 2.1-2.2
	N 2.4-2.5
	S 1.1

呼び径 Nom. size	θ d ₁ mm	P 山数 Gg/1" (tpi)	寸法						□	
			l ₁	l ₂	l ₃	θ d ₂	φ	φ		
EG Nr. 4	3,533	48	56	7	20	4	3	3		
Nr. 6	4,330	40	70	8	25	6	4,9	3,7		
Nr. 8	5,083	36	80	8	30	6	4,9	4,4		
Nr. 10	5,858	32	80	8	30	6	4,9	5,1		
1/4	7,528	28	90	10	35	8	6,2	6,6		
5/16	9,312	24	90	10	35	10	8	8,25		

Enorm 1-Z/E	Enorm 1-Z/E GLT-1
B0513500.5633	B051C400.5633
B0513500.5635	B051C400.5635
B0513500.5636	B051C400.5636
B0513500.5637	B051C400.5637
B0513500.5639	B051C400.5639
B0513500.5640	B051C400.5640

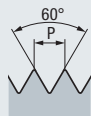
≈ DIN 374

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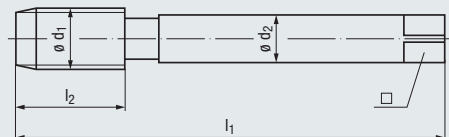
289

EG UNF (STI)

ASME B18.29.1



≈ DIN 374



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

呼び径 Nom. size	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		≈ DIN 371	
								Rekord 2B-VA GLT-1	Enorm 2-Z/E
EG 3/8	10,899	24	90	18	8	6,2	9,8	C020C300.5641	C0513500.5641
7/16	12,763	20	100	22	9	7	11,5	C020C300.5642	C0513500.5642
1/2	14,352	20	100	22	11	9	13,1	C020C300.5643	C0513500.5643
9/16	16,121	18	100	22	12	9	14,7	C020C300.5644	C0513500.5644
5/8	17,709	18	110	25	14	11	16,25	C020C300.5645	C0513500.5645
3/4	21,112	16	125	25	16	12	19,5	C020C300.5646	C0513500.5646

≈ DIN 371



VA
ステンレス



2B
GLT-1
HSSE

B / 4-5
E / O / P

max. 3 x d₁



P 1.1-4.1
M 1.1-4.1
N 2.2

Rekord 2B-VA GLT-1

C020C300.5641
C020C300.5642
C020C300.5643
C020C300.5644
C020C300.5645
C020C300.5646

287

Z
シングロ加工



new



l₂ ≈ 10 x P

l₂ ≈ 10 x P

2B
HSSE
R45
E / 1,5-2
E / O / P

2B
GLT-1
HSSE
R45
E / 1,5-2
E / O / P

max. 3 x d₁



P 1.1-3.1

P 1.1-4.1
M 1.1-4.1
N 1.4, 2.1-2.2
N 2.4-2.5
S 1.1

Enorm 2-Z/E

Enorm 2-Z/E GLT-1

C0513500.5641
C0513500.5642
C0513500.5643
C0513500.5644
C0513500.5645
C0513500.5646

288

288

Product Finder

V_c

M

MF

UNC UN-8

UNF UNEF

G, Rp NPSM, NPSF

NPT, NPTF Rc, W

BSW, BSF

Pg

MJ UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F Rd

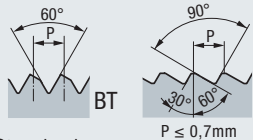
Zubehör Accessories



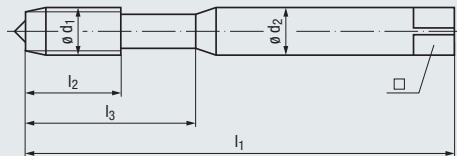
- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

LK-M

EMUGE規格 · EMUGE Standard



DIN 371



VA
ステンレス



GG
鋳鉄



技術情報

Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · Chamfer
切削油 · Cutting oil

GLT-1

HSSE

B / 4-5

E / O / P

NT

HSSE

C / 2-3

E

ねじ深さと穴形状

Thread depth and hole type

max. 3 x d₁



max. 2 x d₁



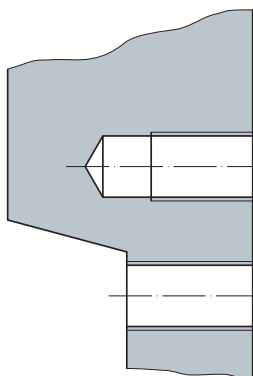
アプリケーション - 被削材
Applications - material

▶ 78

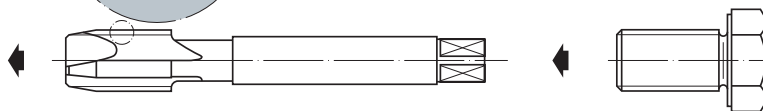
P 1.1-4.1
M 1.1-4.1
N 2.2

K 1.1-1.2

LK-M	∅ d ₁ mm	P mm	l ₁	l ₂	l ₃	∅ d ₂	□		Rekord 1B-VA GLT-1	Rekord 1A-GG NT
							□	□		
	3	0,5	56	11	18	3,5	2,7	2,7		
	4	0,7	63	13	21	4,5	3,4	3,55		
	5	0,8	70	15	25	6	4,9	4,4	B020C300.1050	B0102000.1048 B0102000.1050
	6	1	80	17	30	6	4,9	5,2	B020C300.1052	B0102000.1052
	8	1,25	90	20	35	8	6,2	7	B020C300.1054	B0102000.1054
	10	1,5	100	22	39	10	8	8,8	B020C300.1056	B0102000.1056
DIN 376										292



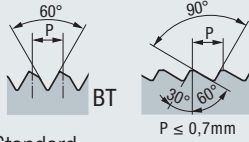
タイプBT
Type BT



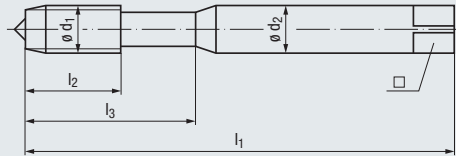
BT = ウェッジ傾斜面が後ろ向き
BT = Wedge ramp inclined backwards

LK-M

EMUGE規格 · EMUGE Standard



DIN 371



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファァー · Chamfer
切削油 · Cutting oil

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

▶▶ 78

LK-M	ø d ₁ mm	P mm	l ₁	l ₂	l ₃	ø d ₂	□	Image	DIN 371		Z シングロ加工	
									Enorm 1-AL GLT-104	Enorm 1-Z/E GLT-1	Enorm 1-Z/E GLT-1	Enorm 1-Z/E GLT-1
	3	0,5	56	6	18	3,5	2,7	2,7	B0503G00.1046	B0513500.1046	B051C400.1046	
	4	0,7	63	7	21	4,5	3,4	3,55	B0503G00.1048	B0513500.1048	B051C400.1048	
	5	0,8	70	8	25	6	4,9	4,4	B0503G00.1050	B0513500.1050	B051C400.1050	
	6	1	80	10	30	6	4,9	5,2	B0503G00.1052	B0513500.1052	B051C400.1052	
	8	1,25	90	14	35	8	6,2	7	B0503G00.1054	B0513500.1054	B051C400.1054	
	10	1,5	100	16	39	10	8	8,8	B0503G00.1056	B0513500.1056	B051C400.1056	
									DIN 376		293	293



- Product Finder
- V_c
 - M
 - MF
 - UNC UN-8
 - UNF UNEF
 - G, Rp NPSM, NPSF
 - NPT, NPTF Rc, W
 - BSW, BSF
 - Pg
 - MJ UNJC, UNJF
 - EG (STI)
 - SELF-LOCK
 - Tr, Tr-F Rd
 - Zubehör Accessories

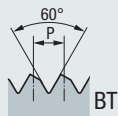


ソフトシンクロ タップホルダーは
617 - 644ページをご覧ください。

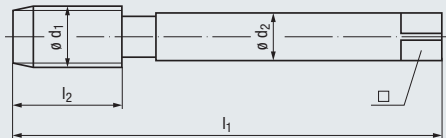
Tool holders of our Softsynchro® series,
see page 617 - 644

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

LK-M



EMUGE規格 · EMUGE Standard



DIN 376

VA
ステンレス



GG
鋳鉄



技術情報
Technical information

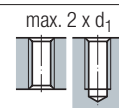
公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー · 切削油 ·

GLT-1
HSSE
B / 4-5
E / O / P

NT
HSSE
C / 2-3
E

ねじ深さと穴形状
Thread depth and hole type



アプリケーション - 被削材
Applications - material 78

P 1.1-4.1
M 1.1-4.1
N 2.2

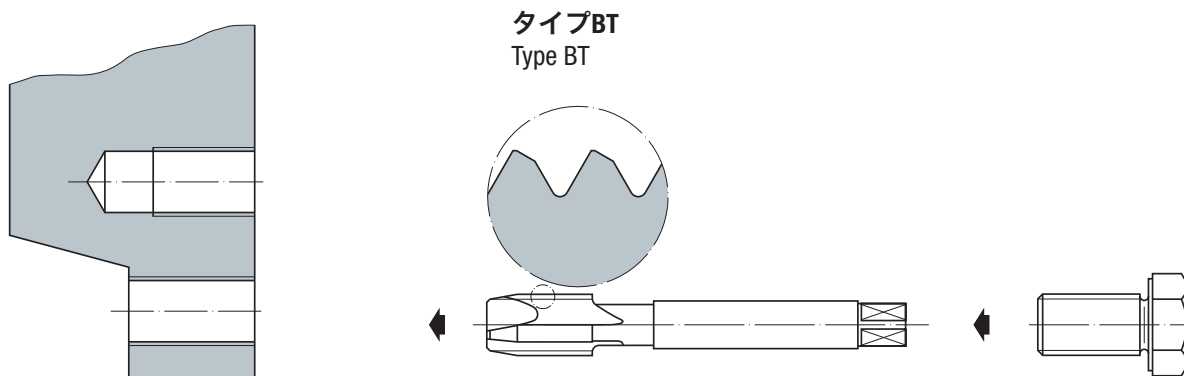
K 1.1-1.2

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Rekord 2B-VA GLT-1	Rekord 2A-GG NT
LK-M	12	1,75	110	24	9	7	10,7	C020C300.1058	C0102000.1058
	14	2	110	26	11	9	12,5		
	16	2	110	27	12	9	14,5	C020C300.1060	C0102000.1060
	20	2,5	140	32	16	12	18	C020C300.1062	C0102000.1062
	24	3	160	34	18	14,5	21,5		C0102000.1064

DIN 371

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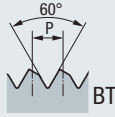
290



タイプBT
Type BT

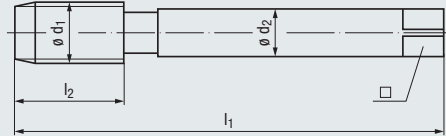
BT = ウェッジ傾斜面が後ろ向き
BT = Wedge ramp inclined backwards

LK-M



EMUGE規格 · EMUGE Standard

DIN 376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

Z
シングロ加工



new



HSSE	GLT-1
R45	HSSE
E / 1,5-2	E / 1,5-2
E / 0 / P	E / 0 / P

max. 3 x d₁



P 1.1-3.1	P 1.1-4.1
	M 1.1-4.1
	N 1.4, 2.1-2.2
	N 2.4-2.5
	S 1.1

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		Enorm 2-Z/E	Enorm 2-Z/E GLT-1
LK-M	12	1,75	110	18	9	7	10,7	C0513500.1058	C051C400.1058
	14	2	110	20	11	9	12,5		
	16	2	110	22	12	9	14,5	C0513500.1060	C051C400.1060
	20	2,5	140	25	16	12	18	C0513500.1062	C051C400.1062
	24	3	160	30	18	14,5	21,5	C0513500.1064	C051C400.1064

DIN 371

291

291

Product Finder

V_c

M

MF

UNC
UN-8

UNF
UNEF

G, Rp
NPSM, NPSF

NPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
Rd

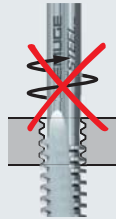
Zubehör
Accessories



- Product Finder
- Vc
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

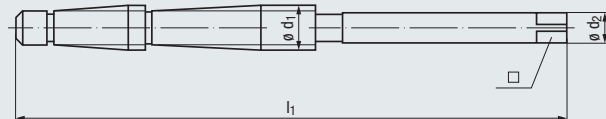


DIN 103



逆転不可!
No reversal!

2-ステップデザイン
2-step design



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material

▶ 78

STEEL
鋼



7H	7H
HSSE	HSSE
L05	左ねじ, R05
0	0

max. 2 x d₁ 1)



P 2.1-3.1	P 2.1-3.1
K 1.1-4.2	K 1.1-4.2
N 2.4-2.6	N 2.4-2.6

	ϕd_1 mm		P mm	l_1	ϕd_2	□		TRAPEZ 2Stuf STEEL	TRAPEZ 2Stuf STEEL-LH
Tr	8	x	1,5	105	6	4,9	6,6	G0351000.7040	G0351050.7040
	9	x	2	130	7	5,5	7,2	G0351000.7042	G0351050.7042
	10	x	2	130	7	5,5	8,2	G0351000.7043	G0351050.7043
	10	x	3	155	7	5,5	7,25	G0351000.7044	G0351050.7044
	11	x	3	155	8	6,2	8,25	G0351000.7045	G0351050.7045
	12	x	3	160	9	7	9,25	G0351000.7046	G0351050.7046
	14	x	3	170	10	8	11,25	G0351000.7047	G0351050.7047
	14	x	4	195	10	8	10,25	G0351000.7048	G0351050.7048
	16	x	4	225	12	9	12,25	G0351000.7051	G0351050.7051
	18	x	4	225	14	11	14,25	G0351000.7052	G0351050.7052
	20	x	4	225	16	12	16,25	G0351000.7053	G0351050.7053
	22	x	5	260	16	12	17,25	G0351000.7054	G0351050.7054
	24	x	5	285	18	14,5	19,25	G0351000.7055	G0351050.7055
	26	x	5	285	20	16	21,25	G0351000.7057	G0351050.7057
	28	x	5	300	22	18	23,25	G0351000.7058	G0351050.7058
	30	x	6	335	22	18	24,25	G0351000.7059	G0351050.7059
	32	x	6	335	25	20	26,25	G0351000.7060	G0351050.7060
	34	x	6	350	28	22	28,25	G0351000.7061	G0351050.7061
	36	x	6	350	28	22	30,25	G0351000.7062	G0351050.7062
	38	x	7	385	28	22	31,5	G0351000.7063	G0351050.7063
	40	x	7	400	32	24	33,5	G0351000.7064	G0351050.7064
	42	x	7	400	32	24	35,5	G0351000.7065	G0351050.7065
	44	x	7	410	36	29	37,5	G0351000.7066	G0351050.7066
	46	x	8	440	36	29	38,5	G0351000.7067	G0351050.7067
	48	x	8	455	40	32	40,5	G0351000.7068	G0351050.7068
	50	x	8	470	40	32	42,5	G0351000.7069	G0351050.7069
	52	x	8	470	40	32	44,5	G0351000.7070	G0351050.7070



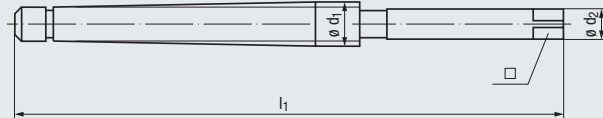
DIN 103

NC

VA
ステンレス



ポジティブフィード制御が必要
Positive feed control is necessary



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

切削油 ·

7H	7H
NT	NT
HSSE	HSSE
L25	左ねじ, R25
0	0

ねじ深さと穴形状
Thread depth and hole type

max. 1,5 x d₁



アプリケーション - 被削材
Applications - material 78

P 2.1-3.1	P 2.1-3.1
K 1.1-4.2	K 1.1-4.2
N 2.4-2.6	N 2.4-2.6

Tr	ø d ₁ mm	x	P mm	l ₁	ø d ₂	□		TRAPEZ AM-VA NT	TRAPEZ AM-VA-LH NT
	8	x	1,5	90	6	4,9	6,6	G0303000.7040	G0303050.7040
	9	x	2	110	7	5,5	7,2	G0303000.7042	G0303050.7042
	10	x	2	110	7	5,5	8,2	G0303000.7043	G0303050.7043
	10	x	3	130	7	5,5	7,25	G0303000.7044	G0303050.7044
	11	x	3	130	8	6,2	8,25	G0303000.7045	G0303050.7045
	12	x	3	140	9	7	9,25	G0303000.7046	G0303050.7046
	14	x	3	145	10	8	11,25	G0303000.7047	G0303050.7047
	14	x	4	165	10	8	10,25	G0303000.7048	G0303050.7048
	16	x	4	190	12	9	12,25	G0303000.7051	G0303050.7051
	18	x	4	195	14	11	14,25	G0303000.7052	G0303050.7052
	20	x	4	195	16	12	16,25	G0303000.7053	G0303050.7053
	22	x	5	220	16	12	17,25	G0303000.7054	G0303050.7054
	24	x	5	245	18	14,5	19,25	G0303000.7055	G0303050.7055
	26	x	5	245	20	16	21,25	G0303000.7057	G0303050.7057
	28	x	5	260	22	18	23,25	G0303000.7058	G0303050.7058
	30	x	6	285	22	18	24,25	G0303000.7059	G0303050.7059

- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories



Tr
DIN 103

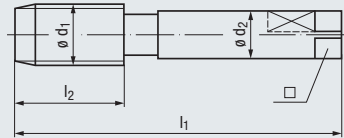
≈ DIN
352

MS
黄銅



自動盤用

Specially made for automatic lathes



技術情報

Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material

チャンファー ·
切削油 ·

7H

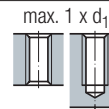
HSSE

E / 1,5-2

0

ねじ深さと穴形状

Thread depth and hole type



N 2.3

アプリケーション - 被削材

Applications - material ▶▶ 78

	∅ d ₁ mm	P mm	l ₁	l ₂	∅ d ₂	□		TRAPEZ AUT-A MS-R
Tr	8	x 1,5	70	22	8 ¹⁾	6,2	6,6	G0442500.7040
	8	x 2	70	22	8 ¹⁾	6,2	6,2	G0442500.7041
	9	x 2	70	22	8 ¹⁾	6,2	7,2	G0442500.7042
	10	x 2	70	22	8 ¹⁾	6,2	8,2	G0442500.7043
	10	x 3	70	22	8 ¹⁾	6,2	7,25	G0442500.7044
	11	x 3	75	24	9	7	8,25	G0442500.7045
	12	x 3	75	25	9	7	9,25	G0442500.7046
	14	x 3	80	26	10 ¹⁾	8	11,25	G0442500.7047
	14	x 4	80	26	10 ¹⁾	8	10,25	G0442500.7048
	16	x 4	80	27	12	9	12,25	G0442500.7051
	18	x 4	95	32	12 ¹⁾	9	14,25	G0442500.7052
	20	x 4	95	32	15 ¹⁾	12	16,25	G0442500.7053

1) 自動盤用 AUT-タップ用シャンク
Special shank for "AUT" taps

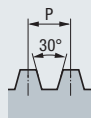


台形ねじ用のダイスは
538 - 539 ページをご覧ください。

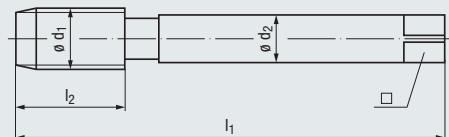
Dies for trapezoidal threads,
see page 538 - 539

Tr-F

DIN 103



≈ DIN
374/376



技術情報
Technical information

公差 · Tolerance
コーティング · Coating
母材 · Cutting material
チャンファー ·
切削油 ·

ねじ深さと穴形状
Thread depth and hole type

アプリケーション – 被削材
Applications – material 78

STEEL
鋼



VA
ステンレス



3)

7H	7H
HSSE	HSSE
L15	左ねじ, R15
0	0

7H
NT
HSSE
L25
0

max. 2 x d₁²⁾



max. 2 x d₁



P 1.1-2.1

P 1.1-2.1

P 1.1-3.1

K 2.1-4.2

N 2.4-2.6

Tr	ø d ₁ mm	P mm	l ₁	l ₂	ø d ₂	□		TRAPEZ	TRAPEZ	TRAPEZ
								Rekord 2C-STEEL	Rekord 2C-STEEL-LH	Rekord 2C-VA-NT
	9	x 1,5	100	22	7	5,5	7,6	G0321000.7111	G0321050.7111	G0323000.7111
	10	x 1,5	100	22	7	5,5	8,6	G0321000.7112	G0321050.7112	G0323000.7112
	11	x 2	100	22	8	6,2	9,2	G0321000.7128	G0321050.7128	G0323000.7128
	12	x 2	110	25	9	7	10,2	G0321000.7129	G0321050.7129	G0323000.7129
	14	x 2	110	26	11	9	12,2	G0321000.7130	G0321050.7130	G0323000.7130
	16	x 2	110	27	12	9	14,2	G0321000.7132	G0321050.7132	G0323000.7132
	18	x 2	125	27	14	11	16,2	G0321000.7133	G0321050.7133	G0323000.7133
	20	x 2	140	27	16	12	18,2	G0321000.7134	G0321050.7134	G0323000.7134
	22	x 3	160	34	18	14,5	19,25	G0321000.7156	G0321050.7156	G0323000.7156
	24	x 3	160	36	18	14,5	21,25	G0321000.7157	G0321050.7157	G0323000.7157
	26	x 3	160	36	20	16	23,25	G0321000.7159	G0321050.7159	G0323000.7159
	28	x 3	180	40	22	18	25,25	G0321000.7160	G0321050.7160	G0323000.7160
	30	x 3	180	40	22	18	27,25	G0321000.7161	G0321050.7161	G0323000.7161

2) 安定したクランプ環境下では 2,5 x d₁ までの加工が可能です
With sufficient clamping length up to approx. 2.5 x d₁

3) ポジティブフィード制御が必要
Positive feed control is necessary

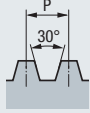
Product Finder

V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories



Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd
Zubehör Accessories

Tr-F



DIN 103

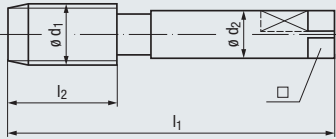
≈ DIN
352

MS
黄銅



自動盤用

Specially made for automatic lathes



公差 · Tolerance
コーティング · Coating
母材 · Cutting material

7H

HSSE

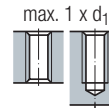
チャンファー ·
切削油 ·

E / 1,5-2

0

ねじ深さと穴形状

Thread depth and hole type



アプリケーション – 被削材
Applications – material

▶▶ 78

N 2.3

	ϕd_1 mm	P mm	l_1	l_2	ϕd_2	□		TRAPEZ AUT-A MS-R
Tr	9	x 1,5	70	22	8 ¹⁾	6,2	7,6	G0442500.7111
	10	x 1,5	70	22	8 ¹⁾	6,2	8,6	G0442500.7112
	11	x 2	75	24	9	7	9,2	G0442500.7128
	12	x 2	75	25	9	7	10,2	G0442500.7129
	14	x 2	80	26	10 ¹⁾	8	12,2	G0442500.7130
	16	x 2	80	27	12	9	14,2	G0442500.7132
	18	x 2	80	22	12 ¹⁾	9	16,2	G0442500.7133
	20	x 2	80	22	15 ¹⁾	12	18,2	G0442500.7134
	22	x 3	100	32	15 ¹⁾	12	19,25	G0442500.7156
	24	x 3	110	36	18	14,5	21,25	G0442500.7157
	26	x 3	110	36	18	14,5	23,25	G0442500.7159
	28	x 3	125	36	18 ¹⁾	14,5	25,25	G0442500.7160
	30	x 3	125	34	18 ¹⁾	14,5	27,25	G0442500.7161

1) 自動盤用 AUT-タップ用シャンク
Special shank for "AUT" taps



Rd

DIN 405

≈ DIN 352

STEEL
鋼



技術情報
Technical information

公差・Tolerance
コーティング・Coating
母材・Cutting material

チャンファー・ 切削油・

ねじ深さと穴形状
Thread depth and hole type

アプリケーション - 被削材
Applications - material

▶ 78

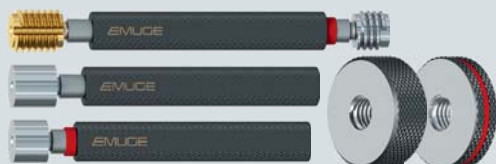
Rd	ø d ₁ mm	P 山数 Gg/1" (tpi)	l ₁	l ₂	ø d ₂	□		RUND Rekord A-STEEL
9	x	10	70	22	8	6,2	7	G0401000.7288
10	x	10	70	22	8	6,2	8	G0401000.7289
11	x	10	70	22	8	6,2	9	G0401000.7290
12	x	10	75	25	9	7	10	G0401000.7291
14	x	8	80	26	11	9	11,5	G0401000.7293
16	x	8	80	27	12	9	13,5	G0401000.7294
18	x	8	95	32	14	11	15,5	G0401000.7295
20	x	8	95	32	16	12	17,5	G0401000.7296
22	x	8	100	32	18	14,5	19,5	G0401000.7297
24	x	8	110	36	18	14,5	21,5	G0401000.7298
26	x	8	110	36	20	16	23,5	G0401000.7299
28	x	8	125	34	22	18	25,5	G0401000.7300
30	x	8	125	34	22	18	27,5	G0401000.7301

公差・Tolerance: 7H
 コーティング・Coating: HSSE
 母材・Cutting material: C / 2-3
 チャンファー・切削油: 0

ねじ深さと穴形状: max. 1 x d₁

アプリケーション - 被削材: K 1.1-4.2, N 2.3

- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories



ねじゲージは 541 - 594 ページをご覧ください。

Thread gauges, see page 541 - 594

タッピング用オイルとペースト

エムゲ・フランケンクロロフリータイプのオイルとペーストは環境負荷の低減に貢献致します。

そのほとんどが危険有害性の分類を必要とせず、化学物質の登録、評価、認可および制限に関する現行のEUの規則 (REACH)の全てを満たしています。

ねじ加工においては、切削油の選定には常に特別な注意が払われるべきです。エムゲ社の切削油シリーズは、推奨される被削材と加工環境に合わせてそれぞれ最適化されています。








Thread cutting oils and pastes

EMUGE-FRANKEN makes another contribution to the protection of the environment with its chlorine-free cutting oils and pastes.

Most coolant-lubricants do not require a hazard classification and meet all the requirements of the current EU Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

In the production of threads, special attention should always be paid to the use of coolant-lubricant. EMUGE coolant-lubricants are specially designed for the materials they are recommended for, and for typical modern work conditions as known from our experience.

		クロロフリー タッピングオイル	Thread cutting oils, chlorine-free						
	<table border="1"> <tr><td>P</td><td>M</td></tr> <tr><td>K</td><td>N</td></tr> <tr><td>S</td><td>H</td></tr> </table>	P	M	K	N	S	H	<p>鋼用 ブラシ塗布または循環方式でご使用頂けます。 非鉄合金の適用性には制限があります!</p>	<p>For steel materials Can be used for brush and circulation lubrication. Limited suitability for the machining of non-ferrous materials!</p>
P	M								
K	N								
S	H								
	<table border="1"> <tr><td>P</td><td>M</td></tr> <tr><td>K</td><td>N</td></tr> <tr><td>S</td><td>H</td></tr> </table>	P	M	K	N	S	H	<p>鋳鉄用 ブラシ塗布または循環方式でご使用頂けます。</p>	<p>For cast materials Can be used for brush and circulation lubrication.</p>
P	M								
K	N								
S	H								
	<table border="1"> <tr><td>P</td><td>M</td></tr> <tr><td>K</td><td>N</td></tr> <tr><td>S</td><td>H</td></tr> </table>	P	M	K	N	S	H	<p>ほとんど全ての被削材に 1:8 の希釈率でエマルジョンとして、または希釈しないままでもご使用頂けます。 非鉄合金の適用性には制限があります!</p>	<p>For almost all materials For use as emulsion in a mixing ratio of 1:8. Can be used in undiluted state also. Limited suitability for the machining of non-ferrous materials!</p>
P	M								
K	N								
S	H								
	<table border="1"> <tr><td>P</td><td>M</td></tr> <tr><td>K</td><td>N</td></tr> <tr><td>S</td><td>H</td></tr> </table>	P	M	K	N	S	H	<p>非鉄用 ブラシ塗布または循環方式でご使用頂けます。</p>	<p>For non ferrous materials Can be used for brush and circulation lubrication.</p>
P	M								
K	N								
S	H								
	<table border="1"> <tr><td>P</td><td>M</td></tr> <tr><td>K</td><td>N</td></tr> <tr><td>S</td><td>H</td></tr> </table>	P	M	K	N	S	H	<p>難削材用 転造タップ加工に最適なオイルです。 ブラシ塗布または循環方式でご使用頂けます。 非鉄合金の適用性には制限があります!</p>	<p>For difficult materials Perfectly suitable for the cold forming of threads. Can be used for brush and circulation lubrication. Limited suitability for the machining of non-ferrous materials!</p>
P	M								
K	N								
S	H								
		クロロフリー タッピングペースト	Thread cutting paste, chlorine-free						
	<table border="1"> <tr><td>P</td><td>M</td></tr> <tr><td>K</td><td>N</td></tr> <tr><td>S</td><td>H</td></tr> </table>	P	M	K	N	S	H	<p>難削材用 転造タップ加工に最適なペーストです。 横型機での大径ねじ加工や通り穴の加工に特に適しています。 ブラシ塗布でご使用ください。 非鉄合金の適用性には制限があります!</p>	<p>For difficult materials Perfectly suitable for the cold forming of threads. Especially useful in horizontal machining, with large thread sizes and through hole threads. To be used only for brush lubrication. Limited suitability for the machining of non-ferrous materials!</p>
P	M								
K	N								
S	H								

No. No.	容量 Container size	
	1 kg	FZ191015.01
	5 kg	FZ191015.05
	10 kg	FZ191015.10
	20 kg	FZ191015.20
	1 kg	FZ191115.01
	5 kg	FZ191115.05
	10 kg	FZ191115.10
	20 kg	FZ191115.20
	1 kg	FZ191215.01
	5 kg	FZ191215.05
	10 kg	FZ191215.10
	20 kg	FZ191215.20
	1 kg	FZ191315.01
	5 kg	FZ191315.05
	10 kg	FZ191315.10
	20 kg	FZ191315.20
	1 kg	FZ191415.01
	5 kg	FZ191415.05
	10 kg	FZ191415.10
	20 kg	FZ191415.20
	0,26 kg ¹⁾	FZ191515.003
	0,45 kg	FZ191515.005
	4,5 kg	FZ191515.05

1) 専用プレスデバイス用の310 ml カートリッジ
310 ml Cartridge for use in cartridge press



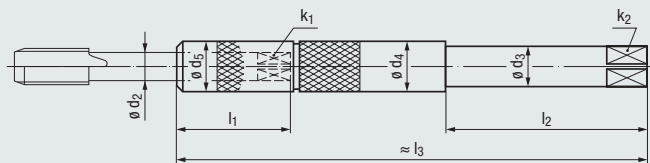
Product Finder
V _c
M
MF
UNC UN-8
UNF UNEF
G, Rp NPSM, NPSF
NPT, NPTF Rc, W
BSW, BSF
Pg
MJ UNJC, UNJF
EG (STI)
SELF-LOCK
Tr, Tr-F Rd

Zubehör
Accessories



- Product Finder
- V_c
- M
- MF
- UNC UN-8
- UNF UNEF
- G, Rp NPSM, NPSF
- NPT, NPTF Rc, W
- BSW, BSF
- Pg
- MJ UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F Rd
- Zubehör Accessories

ショート
Short design

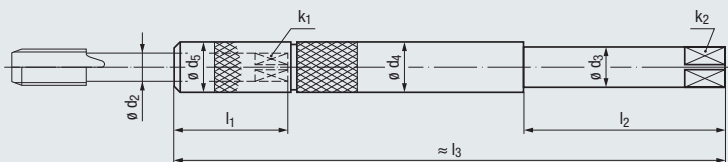
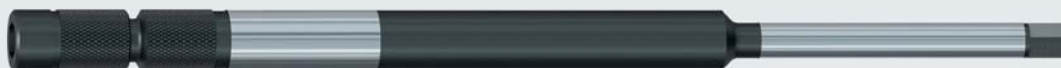


CNC 機または汎用機による
タップ加工に

For use on CNC machines
and conventional thread
cutting machinery

サイズ Size	タップ / 転造タップのサイズ Dimensions of tap / cold-forming tap				エクステンションの諸寸法 Dimensions of extension						QR
	ø d ₂	k ₁			l ₁	ø d ₃ h9	k ₂ h12	l ₂	ø d ₄ / d ₅	l ₃	
1	2,8	2,1	M 2 - M2,6	M 4	21	6	4,9	60	6,1	130	FZ111300.01
2	3,5	2,7	M 3	M 4,5 - M5	22	6	4,9	60	7,5	130	FZ111300.02
3	4	3	M 3,5	M 5,5	22	6	4,9	60	8,4	130	FZ111300.03
4	4,5	3,4	M 4	M 6	22	6	4,9	60	8,4	130	FZ111300.04
5	6	4,9	M 4,5 - M6	M 8	25	7	5,5	60	12,1	130	FZ111300.05
6	7	5,5	M 7	M 9 - M10	25	7	5,5	60	12,1	130	FZ111300.06
7	8	6,2	M 8	M11	29	8	6,2	60	13	130	FZ111300.07
8	9	7	M 9	M12	30	9	7	60	15	130	FZ111300.08
9	10	8	M10	-	32	10	8	60	15	130	FZ111300.09
10	11	9	-	M14	35	11	9	90	18	180	FZ111300.10
11	12	9	(M12)	M16	35	12	9	90	18	180	FZ111300.11
12	14	11	-	M18	39	14	11	90	22	180	FZ111300.12
13	16	12	-	M20	40	16	12	90	22	180	FZ111300.13
14	18	14,5	-	M22 - M24	42	18	14,5	100	26	200	FZ111300.14
15	20	16	-	M27	44	20	16	100	28	200	FZ111300.15
16	22	18	-	M30	46	22	18	100	30	200	FZ111300.16
17	25	20	-	M33	49	25	20	100	35	200	FZ111300.17

ロング
Long design



CNC 機または汎用機による
タップ加工に

For use on CNC machines
and conventional thread
cutting machinery

サイズ Size	タップ / 転造タップのサイズ Dimensions of tap / cold-forming tap				エクステンションの諸寸法 Dimensions of extension						QR
	ø d ₂	k ₁			l ₁	ø d ₃ h9	k ₂ h12	l ₂	ø d ₄ / d ₅	l ₃	
1	2,8	2,1	M 2 - M2,6	M 4	21	6	4,9	65	6,1	230	FZ111310.01
2	3,5	2,7	M 3	M 4,5 - M5	22	6	4,9	70	7,5	230	FZ111310.02
3	4	3	M 3,5	M 5,5	22	6	4,9	70	8,4	230	FZ111310.03
4	4,5	3,4	M 4	M 6	22	6	4,9	70	8,4	230	FZ111310.04
5	6	4,9	M 4,5 - M6	M 8	25	7	5,5	70	12,1	230	FZ111310.05
6	7	5,5	M 7	M 9 - M10	25	7	5,5	70	12,1	230	FZ111310.06
7	8	6,2	M 8	M11	29	8	6,2	80	13	230	FZ111310.07
8	9	7	M 9	M12	30	9	7	80	15	230	FZ111310.08
9	10	8	M10	-	32	10	8	80	15	230	FZ111310.09
10	11	9	-	M14	35	11	9	90	18	330	FZ111310.10
11	12	9	(M12)	M16	35	12	9	90	18	330	FZ111310.11
12	14	11	-	M18	39	14	11	90	22	330	FZ111310.12
13	16	12	-	M20	40	16	12	90	22	330	FZ111310.13
14	18	14,5	-	M22 - M24	42	18	14,5	100	26	330	FZ111310.14
15	20	16	-	M27	44	20	16	100	28	330	FZ111310.15
16	22	18	-	M30	46	22	18	100	30	330	FZ111310.16
17	25	20	-	M33	49	25	20	100	35	330	FZ111310.17

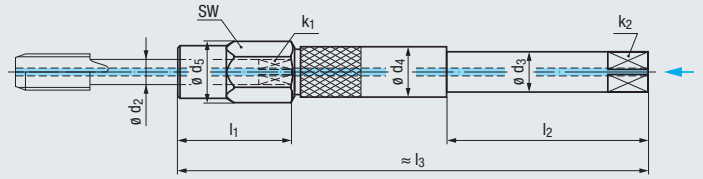
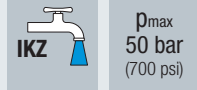
特殊品も製作致します
Further designs upon request



予備の締付けナットまたは六角ナットについては別途お問い合わせください
Spare clamping nuts or hexagon clamping nuts are available upon request

ショート 内部給油対応

Short design, with internal coolant supply



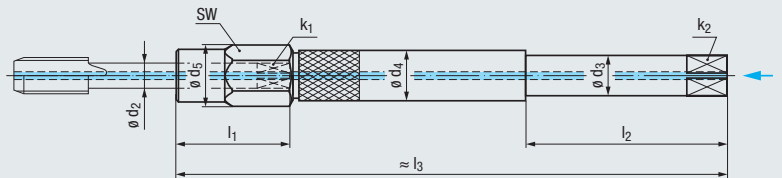
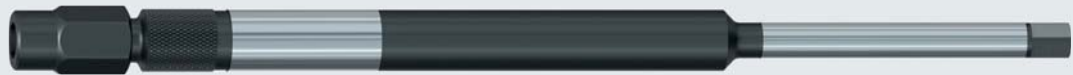
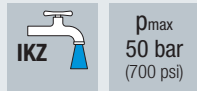
CNC 機または汎用機による
タップ加工に

For use on CNC machines
and conventional thread
cutting machinery

サイズ Size	タップ / 転造タップのサイズ Dimensions of tap / cold-forming tap				エクステンションの諸寸法 Dimensions of extension							締付けナット Clamping nut		QRコード
	ϕd_2	k_1			l_1	ϕd_3 h9	k_2 h12	l_2	ϕd_4	ϕd_5	l_3	SW (W/F)	M_d 1) Nm	
1	2,8	2,1	M 2 - M2,6	M 4	21	6	4,9	60	6,1	6,5	130	6	2	FZ112600.01
2	3,5	2,7	M 3	M 4,5 - M5	22	6	4,9	60	7,5	9	130	8	2	FZ112600.02
3	4	3	M 3,5	M 5,5	22	6	4,9	60	8,4	10	130	9	2,5	FZ112600.03
4	4,5	3,4	M 4	M 6	22	6	4,9	60	8,4	10	130	9	3	FZ112600.04
5	6	4,9	M 4,5 - M6	M 8	25	7	5,5	60	12,1	13,5	130	12	3,5	FZ112600.05
6	7	5,5	M 7	M 9 - M10	25	7	5,5	60	12,1	13,5	130	12	5	FZ112600.06
7	8	6,2	M 8	M11	29	8	6,2	60	13	14,5	130	13	6	FZ112600.07
8	9	7	M 9	M12	30	9	7	60	15	16,5	130	15	8	FZ112600.08
9	10	8	M10	-	32	10	8	60	15	16,5	130	15	11	FZ112600.09
10	11	9	-	M14	35	11	9	90	18	20	180	18	15	FZ112600.10
11	12	9	(M12)	M16	35	12	9	90	18	20	180	18	20	FZ112600.11
12	14	11	-	M18	39	14	11	90	22	25	180	22	25	FZ112600.12
13	16	12	-	M20	40	16	12	90	22	25	180	22	33	FZ112600.13
14	18	14,5	-	M22 - M24	42	18	14,5	100	26	29	200	26	45	FZ112600.14
15	20	16	-	M27	44	20	16	100	28	32	200	28	60	FZ112600.15
16	22	18	-	M30	46	22	18	100	30	34	200	30	77	FZ112600.16
17	25	20	-	M33	49	25	20	100	35	41	200	36	100	FZ112600.17

ロング 内部給油対応

Long design, with internal coolant supply



CNC 機または汎用機による
タップ加工に

For use on CNC machines
and conventional thread
cutting machinery

サイズ Size	タップ / 転造タップのサイズ Dimensions of tap / cold-forming tap				エクステンションの諸寸法 Dimensions of extension							締付けナット Clamping nut		QRコード
	ϕd_2	k_1			l_1	ϕd_3 h9	k_2 h12	l_2	ϕd_4	ϕd_5	l_3	SW (W/F)	M_d 1) Nm	
1	2,8	2,1	M 2 - M2,6	M 4	21	6	4,9	65	6,1	6,5	230	6	2	FZ112610.01
2	3,5	2,7	M 3	M 4,5 - M5	22	6	4,9	70	7,5	9	230	8	2	FZ112610.02
3	4	3	M 3,5	M 5,5	22	6	4,9	70	8,4	10	230	9	2,5	FZ112610.03
4	4,5	3,4	M 4	M 6	22	6	4,9	70	8,4	10	230	9	3	FZ112610.04
5	6	4,9	M 4,5 - M6	M 8	25	7	5,5	70	12,1	13,5	230	12	3,5	FZ112610.05
6	7	5,5	M 7	M 9 - M10	25	7	5,5	70	12,1	13,5	230	12	5	FZ112610.06
7	8	6,2	M 8	M11	29	8	6,2	80	13	14,5	230	13	6	FZ112610.07
8	9	7	M 9	M12	30	9	7	80	15	16,5	230	15	8	FZ112610.08
9	10	8	M10	-	32	10	8	80	15	16,5	230	15	11	FZ112610.09
10	11	9	-	M14	35	11	9	90	18	20	330	18	15	FZ112610.10
11	12	9	(M12)	M16	35	12	9	90	18	20	330	18	20	FZ112610.11
12	14	11	-	M18	39	14	11	90	22	25	330	22	25	FZ112610.12
13	16	12	-	M20	40	16	12	90	22	25	330	22	33	FZ112610.13
14	18	14,5	-	M22 - M24	42	18	14,5	100	26	29	330	26	45	FZ112610.14
15	20	16	-	M27	44	20	16	100	28	32	330	28	60	FZ112610.15
16	22	18	-	M30	46	22	18	100	30	34	330	30	77	FZ112610.16
17	25	20	-	M33	49	25	20	100	35	41	330	36	100	FZ112610.17

1) 推奨締め付けトルク
Recommend tightening torque

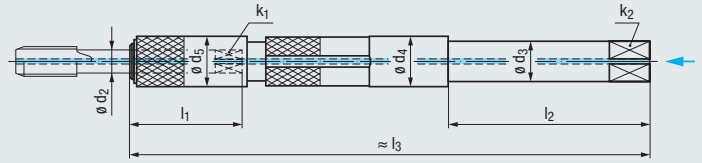


予備の六角ナットについては別途お問い合わせください
Spare hexagon clamping nuts are available upon request

ショート E-Lock 内部給油対応
Short design E-Lock/IKZ, with internal coolant supply



p_{max}
50 bar
(700 psi)



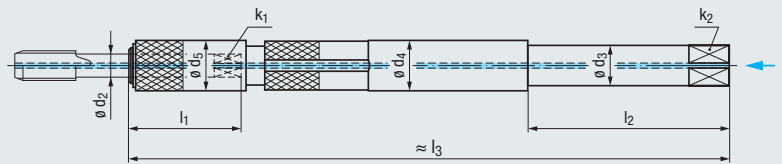
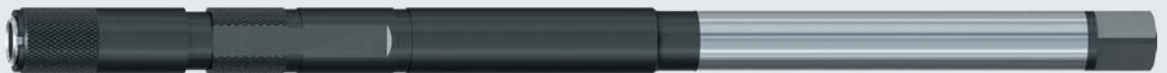
CNC 機または汎用機による
タップ加工に
For use on CNC machines
and conventional thread
cutting machinery

サイズ Size	タップ / 転造タップのサイズ Dimensions of tap / cold-forming tap				エクステンションの諸寸法 Dimensions of extension						溝形状 Slot shape	QRコード
	ϕd_2	k_1	[Image]		l_1	ϕd_3 h9	k_2 h12	l_2	$\phi d_4 / d_5$	l_3		
4	4,5	3,4	M 4	M 6	23	10	8	60	12,1	160	A	FZ115490.04
5	6	4,9	M 4,5 - M6	M 8	25	10	8	60	12,1	160	A	FZ115490.05
7	8	6,2	M 8	M11	29	12	9	60	13	160	A	FZ115510.07
8	9	7	M 9	M12	30	12	9	60	15	160	A	FZ115510.08
9	10	8	M10	-	32	12	9	60	15	160	A	FZ115510.09
11	12	9	(M12)	M16	35	16	12	60	18	160	B	FZ115530.11

ロング E-Lock 内部給油対応
Long design E-Lock/IKZ, with internal coolant supply



p_{max}
50 bar
(700 psi)



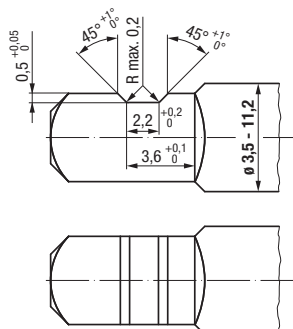
CNC 機または汎用機による
タップ加工に
For use on CNC machines
and conventional thread
cutting machinery

サイズ Size	タップ / 転造タップのサイズ Dimensions of tap / cold-forming tap				エクステンションの諸寸法 Dimensions of extension						溝形状 Slot shape	QRコード
	ϕd_2	k_1	[Image]		l_1	ϕd_3 h9	k_2 h12	l_2	$\phi d_4 / d_5$	l_3		
4	4,5	3,4	M 4	M 6	23	10	8	100	12,1	230	A	FZ115480.04
5	6	4,9	M 4,5 - M6	M 8	25	10	8	100	12,1	230	A	FZ115480.05
7	8	6,2	M 8	M11	29	12	9	100	13	230	A	FZ115500.07
8	9	7	M 9	M12	30	12	9	100	15	230	A	FZ115500.08
9	10	8	M10	-	32	12	9	100	15	230	A	FZ115500.09
11	12	9	(M12)	M16	35	16	12	100	18	230	B	FZ115520.11

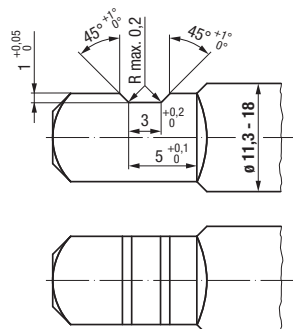
E-Lock タップ角部の溝形状詳細

Machining specifications for the slot shape on the driving square of taps / cold-forming taps

Form A

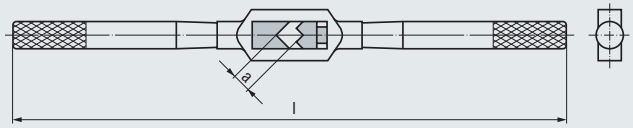


Form B

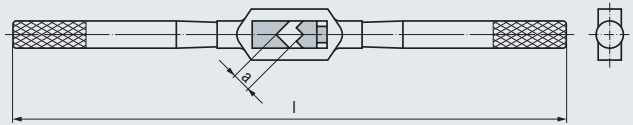


E-Lock 溝ゲージは 725ページをご覧ください
Gauges for E-Lock slots, see page 725



ノーマルタイプ
For normal use≈ DIN
1814

サイズ Size	寸法 Dimensions		QRコード	製品番号
	$a_{min.} - a_{max.}$ mm	l		
0	2 - 5	125		FZ111010.0
1	2 - 6	180		FZ111010.01
1 1/2	2,5 - 8	200		FZ111010.01.5
2	4 - 9	280		FZ111010.02
3	4,9 - 12	375		FZ111010.03
4	5,5 - 16	500	FZ111010.04	
5	7 - 20	750	FZ111010.05	

ヘビーユースタイプ
For heavy use高硬度鋼製 (ケーシングは可鍛鉄または鍛造鋼製)
Made of hardened steel (casing: malleable iron or forged steel)≈ DIN
1814

サイズ Size	寸法 Dimensions		QRコード	製品番号
	$a_{min.} - a_{max.}$ mm	l		
0	2 - 5	125		FZ111000.0
1	2 - 6	180		FZ111000.01
1 1/2	2,5 - 8	200		FZ111000.01.5
2	4 - 9	280		FZ111000.02
3	4,9 - 12	375		FZ111000.03
4	5,5 - 16	500		FZ111000.04
5	7 - 20	750		FZ111000.05
6	9 - 25	1000	FZ111000.06	
7	16 - 32	1250	FZ111000.07	

Product
FinderV_c

M

MF

UNC
UN-8UNF
UNEFG, Rp
NPSM, NPSFNPT, NPTF
Rc, W

BSW, BSF

Pg

MJ
UNJC, UNJF

EG (STI)

SELF-LOCK

Tr, Tr-F
RdZubehör
Accessories

- Product Finder
- V_c
- M
- MF
- UNC
UN-8
- UNF
UNEF
- G, Rp
NPSM, NPSF
- NPT, NPTF
Rc, W
- BSW, BSF
- Pg
- MJ
UNJC, UNJF
- EG (STI)
- SELF-LOCK
- Tr, Tr-F
Rd
- Zubehör
Accessories

3 ストレート溝タップ用 For taps with 3 straight flutes



ねじサイズ
for thread size



	M 3	FZ111100.03/3
	M 4	FZ111100.04/3
	M 5	FZ111100.05/3
	M 6	FZ111100.06/3
	M 8	FZ111100.08/3
	M10	FZ111100.10/3
	M12	FZ111100.12/3
	M14	FZ111100.14/3
	M16	FZ111100.16/3
	M20	FZ111100.20/3

特殊品も製作致します
Further designs upon request

4 ストレート溝タップ用 For taps with 4 straight flutes



ねじサイズ
for thread size



	M 8	FZ111100.08/4
	M10	FZ111100.10/4
	M12	FZ111100.12/4
	M16	FZ111100.16/4
	M20	FZ111100.20/4

