

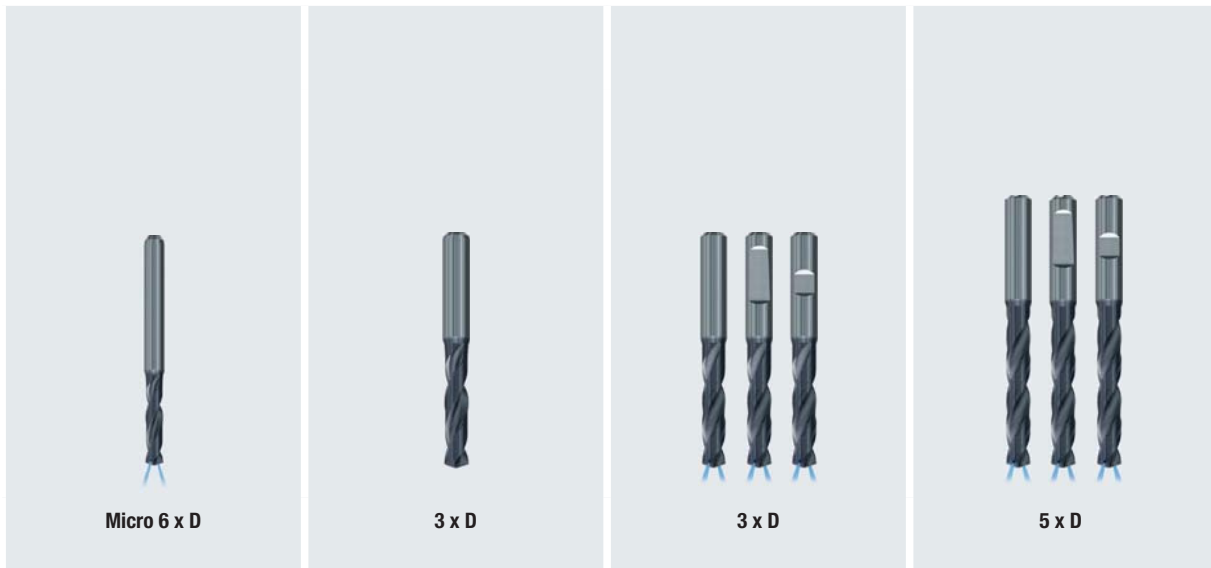


# ドリル Twist Drills

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v <sub>c</sub> / f
BASIC
STEEL
INOX
GG
HCUT
SpotDrill
Zubehör Accessories
3 x D
5 x D
6 x D
8 x D
12 x D
2-3,5 x D



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<b>BASIC</b>
<b>STEEL</b>
<b>INOX</b>
<b>GG</b>
<b>HCUT</b>

<b>Product Finder</b>
v <sub>c</sub> / f
BASIC
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3 x D
5 x D
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8 x D
12 x D
2-3,5 x D



# 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。

$v_c$  = 切削速度 [m/min]

$f$  = 回転あたり送り [mm/r]

# Application recommendation and cutting data

**Please note:**

The cutting values listed in the respective columns are standard values which have to be adjusted to individual work conditions (material, lubrication, machine etc.).

$v_c$  = Cutting speed [m/min]

$f$  = Feed per revolution [mm/rev.]

材料規格対照表は 764 - 785 ページをご覧ください

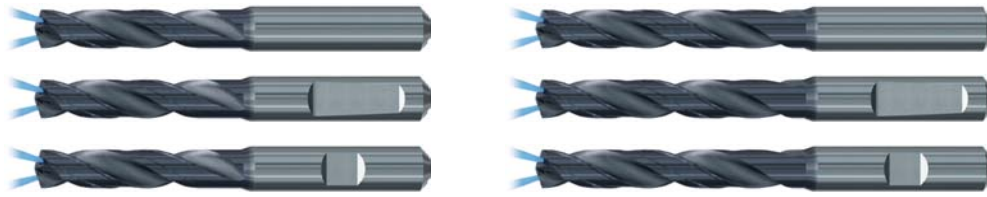
International comparison of materials, see page 764 - 785

	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	<b>鋼</b> 冷間押し出し鋼 機械構造用炭素鋼 快削鋼	Steel materials Cold-extrusion steels, Construction steels, Free-cutting steels, etc.	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	Construction steels, Cementation steels, Steel castings, etc.	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	Cementation steels, Heat-treatable steels, Cold work steels, etc.	20MoCr3 42CrMo4 102Cr6	SACM, SCM415H, SCM440H, SCMn, SCPH, SCr440H, SUJ2			
	4.1 熱処理鋼 冷間鍛造鋼 窒化鋼	Heat-treatable steels, Cold work steels, Nitriding steels, etc.	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)	High-alloyed steels, Cold work steels, Hot work steels, etc.	X38CrMoV5-3 X100CrMoV8-1-1 X40CrMoV5-1	SKD12, SKD61, SKT, SUH, SKH			
	M	<b>ステンレス</b> 1.1 フェライト、マルテンサイト 2.1 オーステナイト 3.1 オーステナイト/フェライト 二相系、析出硬化系 4.1 オーステナイト/フェライト 二相系、析出硬化系	Stainless steel materials Ferritic, martensitic Austenitic Austenitic-ferritic (Duplex) Austenitic-ferritic heat-resistant (Super Duplex)	X2CrTi12 X6CrNiMoTi17-12-2 X2CrNiMoN22-5-3 X2CrNiMoN25-7-4	SCS, SUS420J2, SUS403 SCS, SUH, SUS304, SUS316 SUS329J3L, SUS630, 15-5PH SUS329J4L, SCS14A,		
K		<b>鋳鉄</b> 1.1 ねずみ鋳鉄 1.2 2.1 ダクタイル鋳鉄 2.2 3.1 ハミキュラー鋳鉄 3.2 4.1 可鍛鋳鉄 4.2	Cast materials Cast iron with lamellar graphite (GJL) Cast iron with nodular graphite (GJS) Cast iron with vermicular graphite (GJV) Malleable cast iron (GTMW, GTMB)	EN-GJL-200 (GG20) EN-GJL-300 (GG30) EN-GJS-400-15 (GGG40) EN-GJS-700-2 (GGG70) GJV 300 GJV 450 EN-GJMW-350-4 (GTW-35) EN-GJMB-450-6 (GTS-45)	FC200 FC300 FCD400 FCD700 FCV300 FCV400 FCMW330 FCMW370		
		N	<b>非鉄</b> アルミニウム合金 1.1 1.2 アルミニウム合金 展伸材 1.3 1.4 1.5 アルミニウム合金 鋳物 1.6 銅合金 2.1 純銅、低合金銅 2.2 黄銅 2.3 快削黄銅 2.4 アルミ青銅 2.5 青銅 2.6 快削青銅 2.7 特殊銅合金 2.8 マグネシウム合金 3.1 マグネシウム合金 3.2 マグネシウム合金鋳物 合成樹脂 4.1 熱硬化性樹脂 4.2 熱可塑性樹脂 4.3 繊維強化樹脂(繊維含有量<30%) 4.4 繊維強化樹脂(繊維含有量>30%) 特殊材料 5.1 グラファイト 5.2 タングステン-銅合金 5.3 複合材料	Non ferrous materials Aluminium alloys Aluminium wrought alloys Aluminium cast alloys Copper alloys Pure copper, low-alloyed copper Copper-zinc alloys (brass, long-chipping) Copper-zinc alloys (brass, short-chipping) Copper-aluminium alloys (alu bronze, long-chipping) Copper-tin alloys (tin bronze, long-chipping) Copper-tin alloys (tin bronze, short-chipping) Special copper alloys Magnesium alloys Magnesium wrought alloys Magnesium cast alloys Synthetics Duroplastics (short-chipping) Thermoplastics (long-chipping) Fibre-reinforced synthetics (fibre content ≤ 30%) Fibre-reinforced synthetics (fibre content > 30%) Special materials Graphite Tungsten-copper alloys Composite materials	≤ 200 N/mm <sup>2</sup> ≤ 350 N/mm <sup>2</sup> ≤ 550 N/mm <sup>2</sup> Si ≤ 7% 7% < Si ≤ 12% 12% < Si ≤ 17% ≤ 400 N/mm <sup>2</sup> ≤ 550 N/mm <sup>2</sup> ≤ 550 N/mm <sup>2</sup> ≤ 800 N/mm <sup>2</sup> ≤ 700 N/mm <sup>2</sup> ≤ 400 N/mm <sup>2</sup> ≤ 600 N/mm <sup>2</sup> ≤ 1400 N/mm <sup>2</sup> ≤ 500 N/mm <sup>2</sup> ≤ 500 N/mm <sup>2</sup> Bakelit, Pertinax PMMA, POM, PVC GFK, CFK, AFK GFK, CFK, AFK C 8000 W-Cu 80/20 Hyllite, Alucobond	A1050, A3030 A5052, A6061 A7075 ADC5, AC7A ADC11, ADC12, AC2A ADC14 純銅, C2400 C2720, C2801 C3560, C3710 C5210, C6280 LBC3 BC3 MC2A, MD1A	
			S	<b>耐熱合金</b> チタン合金 1.1 純チタン 1.2 1.3 チタン合金 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 2.3 2.4 ニッケル基合金 2.5 2.6 コバルト基合金 鉄基合金	Special materials Titanium alloys Pure titanium Titanium alloys Nickel alloys, cobalt alloys and iron alloys Pure nickel Nickel-base alloys Cobalt-base alloys Iron-base alloys	Ti TiAl6V4 TiAl4Mo4Sn2 Ni 99.6 Monel 400 Inconel 718 Udimet 605 Haynes 25 Incoloy 800	純チタン Ti-6Al-4V TiAl4Mo4Sn2 純ニッケル モネル 400, ハステロイ B インコネル 718 Udimet 605 ヘインズ 25 インコロイ 800
	H			<b>高硬度鋼</b> 1.1 1.2 1.3 高強度鋼、高硬度鋼、高硬度鋳鉄 1.4 1.5	Hard materials High strength steels, hardened steels, hard castings	44 - 50 HRC 50 - 55 HRC 55 - 60 HRC 60 - 63 HRC 63 - 66 HRC	SKT4 ハードックス550 SKD61 SKD11



# BasicDrill-BD101

- Product Finder
- $v_c / f$**
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör  
Accessories



3 x D

5 x D

		D = 3,00 mm			D = 5,00 mm			D = 8,00 mm			D = 10,00 mm			D = 12,00 mm			D = 16,00 mm			D = 18,00 mm					
		$v_c$ [m/min]			$f$ [mm/r · mm/rev.]																				
		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	3 x D																								
	5 x D																								
	6 x D																								
	8 x D																								
	12 x D																								
	2-3,5 x D																								
M	1.1	100	<b>140</b>	180	0,11	<b>0,16</b>	0,25	0,16	<b>0,20</b>	0,28	0,20	<b>0,25</b>	0,35	0,23	<b>0,28</b>	0,40	0,25	<b>0,31</b>	0,43	0,27	<b>0,34</b>	0,47	0,29	<b>0,35</b>	0,49
	2.1	80	<b>120</b>	160	0,11	<b>0,16</b>	0,25	0,16	<b>0,20</b>	0,28	0,20	<b>0,25</b>	0,35	0,23	<b>0,28</b>	0,40	0,25	<b>0,31</b>	0,43	0,27	<b>0,34</b>	0,47	0,29	<b>0,35</b>	0,49
	3.1	80	<b>100</b>	120	0,11	<b>0,15</b>	0,24	0,16	<b>0,18</b>	0,24	0,20	<b>0,24</b>	0,30	0,23	<b>0,26</b>	0,34	0,25	<b>0,29</b>	0,37	0,27	<b>0,32</b>	0,41	0,29	<b>0,33</b>	0,43
	4.1	50	<b>70</b>	100	0,11	<b>0,15</b>	0,24	0,16	<b>0,18</b>	0,24	0,20	<b>0,24</b>	0,30	0,23	<b>0,26</b>	0,34	0,25	<b>0,29</b>	0,37	0,27	<b>0,32</b>	0,41	0,29	<b>0,33</b>	0,43
	5.1	50	<b>65</b>	90	0,10	<b>0,13</b>	0,21	0,13	<b>0,17</b>	0,24	0,17	<b>0,21</b>	0,30	0,19	<b>0,24</b>	0,34	0,21	<b>0,26</b>	0,37	0,22	<b>0,28</b>	0,39	0,23	<b>0,29</b>	0,40
K	1.1	40	<b>60</b>	80	0,04	<b>0,06</b>	0,09	0,09	<b>0,12</b>	0,19	0,11	<b>0,17</b>	0,26	0,14	<b>0,19</b>	0,30	0,15	<b>0,21</b>	0,33	0,16	<b>0,23</b>	0,36	0,17	<b>0,24</b>	0,37
	2.1	40	<b>55</b>	75	0,04	<b>0,05</b>	0,08	0,08	<b>0,11</b>	0,16	0,10	<b>0,15</b>	0,20	0,14	<b>0,18</b>	0,27	0,15	<b>0,20</b>	0,30	0,16	<b>0,22</b>	0,32	0,17	<b>0,23</b>	0,34
	3.1	40	<b>50</b>	70	0,04	<b>0,05</b>	0,08	0,08	<b>0,11</b>	0,16	0,10	<b>0,15</b>	0,20	0,14	<b>0,18</b>	0,27	0,15	<b>0,20</b>	0,30	0,16	<b>0,22</b>	0,32	0,17	<b>0,23</b>	0,34
	4.1																								
	4.1																								
N	1.1	120	<b>140</b>	160	0,11	<b>0,16</b>	0,25	0,16	<b>0,20</b>	0,28	0,20	<b>0,25</b>	0,35	0,23	<b>0,28</b>	0,40	0,25	<b>0,31</b>	0,43	0,27	<b>0,34</b>	0,47	0,29	<b>0,35</b>	0,50
	1.2	110	<b>130</b>	150	0,11	<b>0,16</b>	0,25	0,16	<b>0,20</b>	0,28	0,20	<b>0,25</b>	0,35	0,23	<b>0,28</b>	0,40	0,25	<b>0,31</b>	0,43	0,27	<b>0,34</b>	0,47	0,29	<b>0,35</b>	0,50
	2.1	140	<b>160</b>	180	0,11	<b>0,16</b>	0,25	0,16	<b>0,20</b>	0,28	0,20	<b>0,25</b>	0,35	0,23	<b>0,28</b>	0,40	0,25	<b>0,31</b>	0,43	0,27	<b>0,34</b>	0,47	0,29	<b>0,35</b>	0,50
	2.2	100	<b>120</b>	140	0,11	<b>0,15</b>	0,24	0,16	<b>0,18</b>	0,24	0,20	<b>0,24</b>	0,30	0,23	<b>0,26</b>	0,34	0,25	<b>0,29</b>	0,37	0,27	<b>0,32</b>	0,41	0,29	<b>0,33</b>	0,43
	3.1	80	<b>100</b>	120	0,11	<b>0,16</b>	0,25	0,16	<b>0,20</b>	0,28	0,20	<b>0,25</b>	0,35	0,23	<b>0,28</b>	0,40	0,25	<b>0,31</b>	0,43	0,27	<b>0,34</b>	0,47	0,29	<b>0,35</b>	0,50
	3.2	60	<b>80</b>	100	0,10	<b>0,14</b>	0,22	0,14	<b>0,18</b>	0,25	0,18	<b>0,23</b>	0,32	0,20	<b>0,25</b>	0,36	0,22	<b>0,28</b>	0,39	0,24	<b>0,30</b>	0,43	0,26	<b>0,32</b>	0,45
	4.1	100	<b>120</b>	140	0,11	<b>0,16</b>	0,25	0,16	<b>0,20</b>	0,28	0,20	<b>0,25</b>	0,35	0,23	<b>0,28</b>	0,40	0,25	<b>0,31</b>	0,43	0,27	<b>0,34</b>	0,47	0,29	<b>0,35</b>	0,50
	4.2	90	<b>110</b>	130	0,11	<b>0,15</b>	0,24	0,16	<b>0,18</b>	0,24	0,20	<b>0,24</b>	0,30	0,23	<b>0,26</b>	0,34	0,25	<b>0,29</b>	0,37	0,27	<b>0,32</b>	0,41	0,29	<b>0,33</b>	0,43
	1.1	160	<b>180</b>	240	0,14	<b>0,19</b>	0,31	0,19	<b>0,28</b>	0,38	0,24	<b>0,33</b>	0,42	0,27	<b>0,37</b>	0,47	0,30	<b>0,41</b>	0,52	0,32	<b>0,45</b>	0,57	0,33	<b>0,46</b>	0,58
	1.2	160	<b>180</b>	240	0,14	<b>0,19</b>	0,31	0,19	<b>0,28</b>	0,38	0,24	<b>0,33</b>	0,42	0,27	<b>0,37</b>	0,47	0,30	<b>0,41</b>	0,52	0,32	<b>0,45</b>	0,57	0,33	<b>0,46</b>	0,58
1.3	160	<b>180</b>	240	0,14	<b>0,19</b>	0,31	0,19	<b>0,28</b>	0,38	0,24	<b>0,33</b>	0,42	0,27	<b>0,37</b>	0,47	0,30	<b>0,41</b>	0,52	0,32	<b>0,45</b>	0,57	0,33	<b>0,46</b>	0,58	
1.4	160	<b>180</b>	240	0,14	<b>0,19</b>	0,31	0,19	<b>0,28</b>	0,38	0,24	<b>0,33</b>	0,42	0,27	<b>0,37</b>	0,47	0,30	<b>0,41</b>	0,52	0,32	<b>0,45</b>	0,57	0,33	<b>0,46</b>	0,58	
1.5	160	<b>180</b>	240	0,14	<b>0,19</b>	0,31	0,19	<b>0,28</b>	0,38	0,24	<b>0,33</b>	0,42	0,27	<b>0,37</b>	0,47	0,30	<b>0,41</b>	0,52	0,32	<b>0,45</b>	0,57	0,33	<b>0,46</b>	0,58	
1.6	160	<b>180</b>	240	0,14	<b>0,19</b>	0,31	0,19	<b>0,28</b>	0,38	0,24	<b>0,33</b>	0,42	0,27	<b>0,37</b>	0,47	0,30	<b>0,41</b>	0,52	0,32	<b>0,45</b>	0,57	0,33	<b>0,46</b>	0,58	
S	2.1	120	<b>140</b>	180	0,03	<b>0,05</b>	0,07	0,04	<b>0,06</b>	0,08	0,05	<b>0,10</b>	0,13	0,06	<b>0,12</b>	0,14	0,06	<b>0,14</b>	0,16	0,07	<b>0,15</b>	0,17	0,07	<b>0,16</b>	0,17
	2.2	120	<b>140</b>	180	0,03	<b>0,05</b>	0,07	0,04	<b>0,06</b>	0,08	0,05	<b>0,10</b>	0,13	0,06	<b>0,12</b>	0,14	0,06	<b>0,14</b>	0,16	0,07	<b>0,15</b>	0,17	0,07	<b>0,16</b>	0,17
	2.3	120	<b>140</b>	180	0,11	<b>0,14</b>	0,19	0,17	<b>0,22</b>	0,30	0,22	<b>0,28</b>	0,39	0,25	<b>0,31</b>	0,42	0,27	<b>0,33</b>	0,44	0,30	<b>0,36</b>	0,48	0,31	<b>0,37</b>	0,50
	2.4																								
	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																									
H	1.1	40	<b>50</b>	60	0,04	<b>0,05</b>	0,06	0,06	<b>0,08</b>	0,10	0,10	<b>0,12</b>	0,15	0,11	<b>0,13</b>	0,17	0,12	<b>0,14</b>	0,19	0,14	<b>0,16</b>	0,20	0,15	<b>0,17</b>	0,21
	1.2	30	<b>40</b>	50	0,04	<b>0,05</b>	0,06	0,06	<b>0,08</b>	0,10	0,10	<b>0,12</b>	0,15	0,11	<b>0,13</b>	0,17	0,12	<b>0,14</b>	0,19	0,14	<b>0,16</b>	0,20	0,15	<b>0,17</b>	0,21
	1.3																								
	2.1	20	<b>40</b>	60	0,04	<b>0,05</b>	0,07	0,06	<b>0,08</b>	0,11	0,10	<b>0,13</b>	0,20	0,11	<b>0,15</b>	0,23	0,12	<b>0,17</b>	0,25	0,14	<b>0,18</b>	0,27	0,15	<b>0,19</b>	0,28
	2.2	10	<b>25</b>	40	0,04	<b>0,05</b>	0,07	0,06	<b>0,08</b>	0,10	0,10	<b>0,12</b>	0,15	0,11	<b>0,13</b>	0,17	0,12	<b>0,14</b>	0,19	0,14	<b>0,16</b>	0,20	0,15	<b>0,17</b>	0,21
	2.3																								
2.4																									
2.5																									
2.6																									
H	1.1	20	<b>40</b>	50	0,05	<b>0,06</b>	0,11	0,08	<b>0,11</b>	0,16	0,10	<b>0,16</b>	0,25	0,11	<b>0,18</b>	0,28	0,12	<b>0,19</b>	0,31	0,14	<b>0,20</b>	0,34	0,15	<b>0,21</b>	0,35
	1.2	20	<b>30</b>	50	0,05	<b>0,06</b>	0,11	0,08	<b>0,11</b>	0,16	0,10	<b>0,16</b>	0,25	0,11	<b>0,18</b>	0,28	0,12	<b>0,19</b>	0,31	0,14	<b>0,20</b>	0,34	0,15	<b>0,21</b>	0,35
	1.3	20	<b>30</b>	50	0,05	<b>0,06</b>	0,11	0,08	<b>0,11</b>	0,16	0,10	<b>0,16</b>	0,25	0,11	<b>0,18</b>	0,28	0,12	<b>0,19</b>	0,31	0,14	<b>0,20</b>	0,34	0,15	<b>0,21</b>	0,35
	1.4																								
	1.5																								







# SteelDrill-SD104



12 x D

- Product Finder
- v<sub>c</sub> / f**
- BASIC
- STEEL
- INOX
- GU
- HCUT
- SpotDrill
- Zubehör Accessories

- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D



v <sub>c</sub> [m/min]			D = 3,00 mm		D = 5,00 mm		D = 8,00 mm		D = 10,00 mm		D = 12,00 mm		D = 16,00 mm		
			min.	推奨 rec.	max.	min.	推奨 rec.	max.	min.	推奨 rec.	max.	min.	推奨 rec.	max.	
f [mm/r · mm/rev.]															
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.	
80	<b>100</b>	120	0,07	<b>0,09</b>	0,11	0,12	<b>0,14</b>	0,16	0,16	<b>0,18</b>	0,20	0,18	<b>0,20</b>	0,22	1.1
70	<b>90</b>	110	0,07	<b>0,09</b>	0,11	0,12	<b>0,14</b>	0,16	0,16	<b>0,18</b>	0,20	0,18	<b>0,20</b>	0,22	2.1
60	<b>80</b>	100	0,08	<b>0,10</b>	0,12	0,11	<b>0,13</b>	0,15	0,18	<b>0,20</b>	0,22	0,19	<b>0,21</b>	0,23	3.1
55	<b>75</b>	95	0,06	<b>0,08</b>	0,10	0,09	<b>0,11</b>	0,13	0,16	<b>0,18</b>	0,20	0,18	<b>0,20</b>	0,22	4.1
45	<b>55</b>	65	0,04	<b>0,06</b>	0,08	0,07	<b>0,09</b>	0,11	0,14	<b>0,16</b>	0,18	0,16	<b>0,18</b>	0,20	5.1
40	<b>60</b>	80	0,04	<b>0,06</b>	0,08	0,07	<b>0,09</b>	0,11	0,10	<b>0,12</b>	0,14	0,13	<b>0,15</b>	0,17	1.1
															2.1
															3.1
															4.1
115	<b>140</b>	165	0,10	<b>0,12</b>	0,14	0,17	<b>0,19</b>	0,21	0,26	<b>0,28</b>	0,30	0,31	<b>0,33</b>	0,35	1.1
95	<b>125</b>	140	0,10	<b>0,12</b>	0,14	0,16	<b>0,18</b>	0,20	0,27	<b>0,29</b>	0,31	0,30	<b>0,32</b>	0,34	1.2
95	<b>125</b>	150	0,11	<b>0,13</b>	0,15	0,17	<b>0,19</b>	0,21	0,25	<b>0,27</b>	0,29	0,29	<b>0,31</b>	0,33	2.1
105	<b>125</b>	140	0,09	<b>0,11</b>	0,13	0,15	<b>0,17</b>	0,19	0,21	<b>0,23</b>	0,25	0,24	<b>0,26</b>	0,28	2.2
70	<b>90</b>	110	0,10	<b>0,12</b>	0,14	0,16	<b>0,18</b>	0,20	0,24	<b>0,26</b>	0,28	0,26	<b>0,28</b>	0,30	3.1
60	<b>80</b>	100	0,09	<b>0,11</b>	0,13	0,12	<b>0,14</b>	0,16	0,19	<b>0,21</b>	0,23	0,21	<b>0,23</b>	0,25	3.2
															4.1
															4.2
															1.1
															1.2
															1.3
															1.4
															1.5
															1.6
															2.1
															2.2
															2.3
															2.4
															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
															1.1
															1.2
															1.3
															2.1
															2.2
															2.3
															2.4
															2.5
															2.6
15	<b>25</b>	35	0,02	<b>0,04</b>	0,06	0,05	<b>0,07</b>	0,09	0,07	<b>0,09</b>	0,11	0,07	<b>0,09</b>	0,11	1.1
															1.2
															1.3
															1.4
															1.5





# EF-Drill-HCUT

- Product Finder
- $v_c / f$**
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories



3 x D

- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D



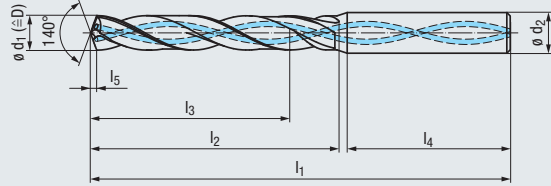
		D = 3,00 mm			D = 5,00 mm			D = 8,00 mm			D = 10,00 mm			D = 12,00 mm			D = 16,00 mm			D = 20,00 mm					
		$v_c$ [m/min]			f [mm/r · mm/rev.]																				
		min.	推奨 rec.	max.	min.	推奨 rec.	max.	min.	推奨 rec.	max.	min.	推奨 rec.	max.	min.	推奨 rec.	max.	min.	推奨 rec.	max.	min.	推奨 rec.	max.			
P	1.1																								
	2.1																								
	3.1																								
	4.1																								
	5.1																								
M	1.1																								
	2.1																								
	3.1																								
	4.1																								
K	1.1																								
	1.2																								
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	2.2																								
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	4.1																								
	4.2																								
N	1.1																								
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S	1.1																								
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	2.1																								
	2.2																								
	2.3																								
	2.4																								
2.5																									
2.6																									
H	1.1	30	<b>35</b>	40	0,03	<b>0,05</b>	0,06	0,04	<b>0,06</b>	0,07	0,08	<b>0,10</b>	0,12	0,10	<b>0,12</b>	0,14	0,12	<b>0,14</b>	0,16	0,14	<b>0,16</b>	0,18	0,18	<b>0,20</b>	0,22
	1.2	20	<b>25</b>	30	0,03	<b>0,05</b>	0,06	0,04	<b>0,06</b>	0,07	0,08	<b>0,10</b>	0,12	0,10	<b>0,12</b>	0,14	0,12	<b>0,14</b>	0,16	0,14	<b>0,16</b>	0,18	0,18	<b>0,20</b>	0,22
	1.3	15	<b>20</b>	25	0,03	<b>0,04</b>	0,05	0,03	<b>0,04</b>	0,05	0,04	<b>0,06</b>	0,08	0,06	<b>0,08</b>	0,10	0,06	<b>0,08</b>	0,10	0,08	<b>0,10</b>	0,12	0,12	<b>0,14</b>	0,16
	1.4	10	<b>15</b>	20	0,02	<b>0,03</b>	0,04	0,03	<b>0,04</b>	0,05	0,03	<b>0,04</b>	0,05	0,04	<b>0,05</b>	0,06	0,04	<b>0,05</b>	0,06	0,05	<b>0,06</b>	0,07	0,09	<b>0,10</b>	0,11
	1.5	8	<b>12</b>	15	0,01	<b>0,02</b>	0,03	0,02	<b>0,03</b>	0,04	0,03	<b>0,04</b>	0,05	0,04	<b>0,05</b>	0,06	0,04	<b>0,05</b>	0,06	0,05	<b>0,06</b>	0,07	0,09	<b>0,10</b>	0,11



## EF-Drill-Micro-STEEL

ほとんどすべての被削材に  
For almost all materials

# 6 x D



超硬

TIALN

R30

Z2

2FF

140°

IT9-IT10

DIN 6535

HA

STEEL  
鋼



ドリル深さ  
Drill depth

6 x D

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

▶▶ 14

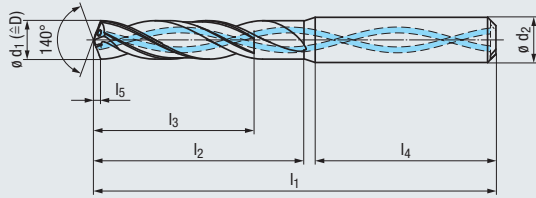
P	1.1-5.1	M	1.1-4.1	K	1.1-4.2
N	1.1-1.6	N	2.2-2.3	S	1.2-1.3

$\phi d_1$ k5	タップ Taps	転造タップ Cold-forming taps							$\phi d_2$	EF-Drill-Micro STEEL-6xD	HA
	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$						
0,75	M1		51,5	5,7	4,5	28	0,105	3	TE213324.0075		
0,80	M1x0,2		51,5	6,1	4,8	28	0,112	3	TE213324.0080		
0,85	M1,1		51,5	6,5	5,1	28	0,119	3	TE213324.0085		
0,90	M1,1x0,2	M1	51,5	6,9	5,4	28	0,126	3	TE213324.0090		
0,95	M1,2		51,5	7,3	5,7	28	0,132	3	TE213324.0095		
1,00	M1,2x0,2	M1,1	55	7,7	6	28	0,139	4	TE213324.0100		
1,10	M1,4	M1,2	55	8,5	6,6	28	0,153	4	TE213324.0110		
1,20	M1,4x0,2		55	9,3	7,2	28	0,167	4	TE213324.0120		
1,25	M1,6 / #0-80		55	9,7	7,5	28	0,174	4	TE213324.0125		
1,28		M1,4	55	9,7	7,7	28	0,178	4	TE213324.0128		
1,30	MJ1,6x0,35		57	10,1	7,8	28	0,181	4	TE213324.0130		
1,35	M1,7		57	10,5	8,1	28	0,188	4	TE213324.0135		
1,40	M1,6x0,2	#0-80	57	10,9	8,4	28	0,195	4	TE213324.0140		
1,45	M1,8		57	11,3	8,7	28	0,202	4	TE213324.0145		
1,47		M1,6	57	11,3	8,8	28	0,202	4	TE213324.0147		
1,50			57	11,7	9	28	0,209	4	TE213324.0150		
1,57		M1,7	59	11,7	9,4	28	0,219	4	TE213324.0157		
1,60	M2 / M1,8x0,2		59	12,5	9,6	28	0,223	4	TE213324.0160		
1,67		M1,8	59	12,5	10	28	0,233	4	TE213324.0167		
1,70		#1-64 / #1-72	59	13,3	10,2	28	0,237	4	TE213324.0170		
1,75	M2,2 / M2x0,25		59	13,7	10,5	28	0,244	4	TE213324.0175		
1,80			61	14,1	10,8	28	0,251	4	TE213324.0180		
1,85	#2-56 / #2-64	M2	61	14,5	11,1	28	0,258	4	TE213324.0185		
1,90	M2,3		61	14,9	11,4	28	0,265	4	TE213324.0190		
1,95	M2,2x0,25 / M2,3x0,35		61	15,3	11,7	28	0,272	4	TE213324.0195		
2,00		#2-56	63	15,7	12	28	0,279	4	TE213324.0200		
2,03		M2,2	63	15,7	12,2	28	0,283	4	TE213324.0203		
2,05	M2,5 / M2,3x0,25		63	16,1	12,3	28	0,286	4	TE213324.0205		
2,10	MJ2,5x0,45 / #3-48		63	16,5	12,6	28	0,293	4	TE213324.0210		
2,15	M2,6 / M2,5x0,35 / #3-56	M2,3	63	16,9	12,9	28	0,300	4	TE213324.0215		
2,20			63	17,3	13,2	28	0,307	4	TE213324.0220		
2,30		#3-48	65	18,1	13,8	28	0,321	4	TE213324.0230		
2,33		M2,5	65	18,1	14	28	0,325	4	TE213324.0233		
2,40	#4-48		65	18,9	14,4	28	0,335	4	TE213324.0240		
2,43		M2,6	65	18,9	14,6	28	0,339	4	TE213324.0243		
2,50	M3		65	19,7	15	28	0,349	4	TE213324.0250		
2,60	MJ3x0,5		66,5	20,5	15,6	28	0,363	4	TE213324.0260		
2,65	M3x0,35 / #5-40		66,5	20,9	15,9	28	0,370	4	TE213324.0265		
2,70	#5-44		66,5	21,3	16,2	28	0,377	4	TE213324.0270		
2,80		M3	68,5	22,1	16,8	28	0,390	4	TE213324.0280		
2,90	M3,5	#5-40	68,5	22,9	17,4	28	0,404	4	TE213324.0290		
3,00	M3,5x0,5 / MJ3,5x0,6		73	23,7	18	36	0,418	4	TE213324.0300		

### BasicDrill-BD101

ほとんどすべての被削材に  
For almost all materials

**3xD** ショート  
Short design



**超硬** TIALN

**DIN 6537 K** R30

**Z2** **4FF**

**140°** **IT9-IT10**

**DIN 6535**  
HA HB HE

**BASIC**  
オールラウンド

- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- G
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

ドリル深さ  
Drill depth

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

**3 x D**

<b>P</b> 1.1-5.1	<b>M</b> 1.1-3.1	<b>K</b> 1.1-4.2
<b>N</b> 1.1-2.3	<b>S</b> 1.2-1.3, 2.2-2.3	<b>H</b> 1.1-1.3

ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	BasicDrill BD101-3xD	BasicDrill BD101-3xD	BasicDrill BD101-3xD
			HA	HE	HB						
3,00	M3,5x0,5 / MJ3,5x0,6		l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	6	TA201344.0300	TA501344.0300	TA601344.0300
3,10			62	20	14	36	0,5	6	TA201344.0310	TA501344.0310	TA601344.0310
3,15	M3,5x0,35	#6-32	62	20	14	36	0,5	6	TA201344.0315	TA501344.0315	TA601344.0315
3,18			62	20	14	36	0,5	6	TA201344.0318	TA501344.0318	TA601344.0318
3,20	MJ3,5x0,35		62	20	14	36	0,5	6	TA201344.0320	TA501344.0320	TA601344.0320
3,22		#6-40	62	20	14	36	0,5	6	TA201344.0322	TA501344.0322	TA601344.0322
3,25		M3,5	62	20	14	36	0,6	6	TA201344.0325	TA501344.0325	TA601344.0325
3,30	M4	M3,5x0,5	62	20	14	36	0,6	6	TA201344.0330	TA501344.0330	TA601344.0330
3,35			62	20	14	36	0,6	6	TA201344.0335	TA501344.0335	TA601344.0335
3,38		M3,5x0,35	62	20	14	36	0,6	6	TA201344.0338	TA501344.0338	TA601344.0338
3,40	MJ4x0,7		62	20	14	36	0,6	6	TA201344.0340	TA501344.0340	TA601344.0340
3,50	M4x0,5 / #8-32 / #8-36		62	20	14	36	0,6	6	TA201344.0350	TA501344.0350	TA601344.0350
3,57			62	20	14	36	0,6	6	TA201344.0357	TA501344.0357	TA601344.0357
3,60	MJ4x0,5		62	20	14	36	0,6	6	TA201344.0360	TA501344.0360	TA601344.0360
3,65	M4x0,35		62	20	14	36	0,6	6	TA201344.0365	TA501344.0365	TA601344.0365
3,70	M4,5	M4	62	20	14	36	0,6	6	TA201344.0370	TA501344.0370	TA601344.0370
3,80		M4x0,5 / #8-32	66	24	17	36	0,6	6	TA201344.0380	TA501344.0380	TA601344.0380
3,85		#8-36	66	24	17	36	0,7	6	TA201344.0385	TA501344.0385	TA601344.0385
3,88		M4x0,35	66	24	17	36	0,7	6	TA201344.0388	TA501344.0388	TA601344.0388
3,90	MJ4,5x0,75 / #10-24		66	24	17	36	0,7	6	TA201344.0390	TA501344.0390	TA601344.0390
3,97			66	24	17	36	0,7	6	TA201344.0397	TA501344.0397	TA601344.0397
4,00			66	24	17	36	0,7	6	TA201344.0400	TA501344.0400	TA601344.0400
4,04			66	24	17	36	0,7	6	TA201344.0404	TA501344.0404	TA601344.0404
4,10	MJ4,5x0,5 / #10-32		66	24	17	36	0,7	6	TA201344.0410	TA501344.0410	TA601344.0410
4,15	M5x0,9		66	24	17	36	0,7	6	TA201344.0415	TA501344.0415	TA601344.0415
4,20	M5 / M5x0,75	M4,5	66	24	17	36	0,7	6	TA201344.0420	TA501344.0420	TA601344.0420
4,30	MJ5x0,8	M4,5x0,5 / #10-24 (GAL)	66	24	17	36	0,7	6	TA201344.0430	TA501344.0430	TA601344.0430
4,35		#10-24	66	24	17	36	0,7	6	TA201344.0435	TA501344.0435	TA601344.0435
4,37			66	24	17	36	0,7	6	TA201344.0437	TA501344.0437	TA601344.0437
4,40			66	24	17	36	0,7	6	TA201344.0440	TA501344.0440	TA601344.0440
4,45		#10-32	66	24	17	36	0,8	6	TA201344.0445	TA501344.0445	TA601344.0445
4,50	M5x0,5 / #12-24		66	24	17	36	0,8	6	TA201344.0450	TA501344.0450	TA601344.0450
4,60	M5,5 / MJ5x0,5 / #12-28		66	24	17	36	0,8	6	TA201344.0460	TA501344.0460	TA601344.0460
4,65		M5	66	24	17	36	0,8	6	TA201344.0465	TA501344.0465	TA601344.0465
4,70		M5x0,75	66	24	17	36	0,8	6	TA201344.0470	TA501344.0470	TA601344.0470
4,76			66	28	20	36	0,8	6	TA201344.0476	TA501344.0476	TA601344.0476
4,80		M5x0,5	66	28	20	36	0,8	6	TA201344.0480	TA501344.0480	TA601344.0480
4,90			66	28	20	36	0,8	6	TA201344.0490	TA501344.0490	TA601344.0490
5,00	M6	#12-24	66	28	20	36	0,8	6	TA201344.0500	TA501344.0500	TA601344.0500
5,10	MJ6x1 / 1/4-20	M5,5 / #12-28	66	28	20	36	0,9	6	TA201344.0510	TA501344.0510	TA601344.0510
5,11			66	28	20	36	0,9	6	TA201344.0511	TA501344.0511	TA601344.0511
5,16			66	28	20	36	0,9	6	TA201344.0516	TA501344.0516	TA601344.0516
5,20	M6x0,75		66	28	20	36	0,9	6	TA201344.0520	TA501344.0520	TA601344.0520
5,30		M5,5x0,5	66	28	20	36	0,9	6	TA201344.0530	TA501344.0530	TA601344.0530
5,40			66	28	20	36	0,9	6	TA201344.0540	TA501344.0540	TA601344.0540
5,41			66	28	20	36	0,9	6	TA201344.0541	TA501344.0541	TA601344.0541
5,50	M6x0,5 / 1/4-28		66	28	20	36	0,9	6	TA201344.0550	TA501344.0550	TA601344.0550
5,55		M6 (GAL)	66	28	20	36	0,9	6	TA201344.0555	TA501344.0555	TA601344.0555
5,56			66	28	20	36	0,9	6	TA201344.0556	TA501344.0556	TA601344.0556
5,60	MJ6x0,5	M6	66	28	20	36	1,0	6	TA201344.0560	TA501344.0560	TA601344.0560
5,70		M6x0,75 / 1/4-20 (GAL)	66	28	20	36	1,0	6	TA201344.0570	TA501344.0570	TA601344.0570
5,75		1/4-20	66	28	20	36	1,0	6	TA201344.0575	TA501344.0575	TA601344.0575

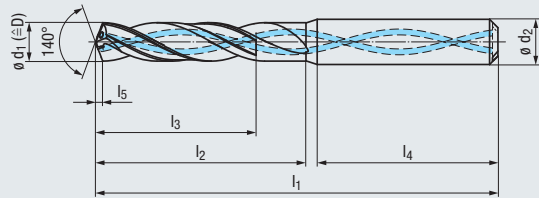




### BasicDrill-BD101

ほとんどすべての被削材に  
For almost all materials

**3xD** ショート  
Short design



**超硬** TIALN

**DIN 6537 K** R30

**Z2** **4FF**

**140°** **IT9-IT10**

**DIN 6535**  
HA HB HE

**BASIC**  
オールラウンド

Product Finder

$v_c / f$

**BASIC**

STEEL

INOX

G

HCUT

SpotDrill

Zubehör  
Accessories

**3 x D**

5 x D

6 x D

8 x D

12 x D

2-3,5 x D

ドリル深さ  
Drill depth

アプリケーション - 被削材  
Applications - material 14

**3 x D**

**P 1.1-5.1** **M 1.1-3.1** **K 1.1-4.2**

**N 1.1-2.3** **S 1.2-1.3, 2.2-2.3** **H 1.1-1.3**

$\emptyset d_1$ m7	タップ Taps	転造タップ Cold-forming taps	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\emptyset d_2$ h6	BasicDrill BD101-3xD	BasicDrill BD101-3xD	BasicDrill BD101-3xD
									HA	HE	HB
9,45		M10x1,25	89	47	35	40	1,6	10	TA201344.0945	TA501344.0945	TA601344.0945
9,50	M11 / M10x0,5		89	47	35	40	1,6	10	TA201344.0950	TA501344.0950	TA601344.0950
9,53			89	47	35	40	1,6	10	TA201344.0953	TA501344.0953	TA601344.0953
9,60	MJ10x0,5 / MJ11x1,5	M10x1	89	47	35	40	1,6	10	TA201344.0960	TA501344.0960	TA601344.0960
9,70		M10x0,75	89	47	35	40	1,6	10	TA201344.0970	TA501344.0970	TA601344.0970
9,80		M10x0,5	89	47	35	40	1,7	10	TA201344.0980	TA501344.0980	TA601344.0980
9,90	MJ11x1,25 / 7/16-20		89	47	35	40	1,7	10	TA201344.0990	TA501344.0990	TA601344.0990
9,92			89	47	35	40	1,7	10	TA201344.0992	TA501344.0992	TA601344.0992
10,00	M11x1		89	47	35	40	1,7	10	TA201344.1000	TA501344.1000	TA601344.1000
10,10	MJ11x1		102	55	40	45	1,7	12	TA201344.1010	TA501344.1010	TA601344.1010
10,20	M12 / M11x0,75	7/16-14 (GAL)	102	55	40	45	1,7	12	TA201344.1020	TA501344.1020	TA601344.1020
10,25		7/16-14	102	55	40	45	1,7	12	TA201344.1025	TA501344.1025	TA601344.1025
10,30		M11 (GAL)	102	55	40	45	1,7	12	TA201344.1030	TA501344.1030	TA601344.1030
10,32			102	55	40	45	1,8	12	TA201344.1032	TA501344.1032	TA601344.1032
10,35	MJ11x0,75	M11	102	55	40	45	1,8	12	TA201344.1035	TA501344.1035	TA601344.1035
10,40			102	55	40	45	1,8	12	TA201344.1040	TA501344.1040	TA601344.1040
10,50	M12x1,5	7/16-20 (GAL)	102	55	40	45	1,8	12	TA201344.1050	TA501344.1050	TA601344.1050
10,55		M11x1 (GAL) / 7/16-20	102	55	40	45	1,8	12	TA201344.1055	TA501344.1055	TA601344.1055
10,72			102	55	40	45	1,8	12	TA201344.1072	TA501344.1072	TA601344.1072
10,80	M12x1,25 / 1/2-13		102	55	40	45	1,8	12	TA201344.1080	TA501344.1080	TA601344.1080
10,90	MJ12x1,25		102	55	40	45	1,8	12	TA201344.1090	TA501344.1090	TA601344.1090
11,00	M12x1		102	55	40	45	1,9	12	TA201344.1100	TA501344.1100	TA601344.1100
11,11			102	55	40	45	1,9	12	TA201344.1111	TA501344.1111	TA601344.1111
11,20	M12x0,75	M12 (GAL)	102	55	40	45	1,9	12	TA201344.1120	TA501344.1120	TA601344.1120
11,25		M12	102	55	40	45	1,9	12	TA201344.1125	TA501344.1125	TA601344.1125
11,30		M12x1,5 (GAL)	102	55	40	45	1,9	12	TA201344.1130	TA501344.1130	TA601344.1130
11,35		M12x1,5	102	55	40	45	1,9	12	TA201344.1135	TA501344.1135	TA601344.1135
11,40		M12x1,25 (GAL)	102	55	40	45	1,9	12	TA201344.1140	TA501344.1140	TA601344.1140
11,45		M12x1,25	102	55	40	45	1,9	12	TA201344.1145	TA501344.1145	TA601344.1145
11,50	1/2-20		102	55	40	45	2,0	12	TA201344.1150	TA501344.1150	TA601344.1150
11,51			102	55	40	45	2,0	12	TA201344.1151	TA501344.1151	TA601344.1151
11,60		M12x1	102	55	40	45	2,0	12	TA201344.1160	TA501344.1160	TA601344.1160
11,80	G1/4	1/2-13	102	55	40	45	2,0	12	TA201344.1180	TA501344.1180	TA601344.1180
11,90			102	55	40	45	2,0	12	TA201344.1190	TA501344.1190	TA601344.1190
11,91			102	55	40	45	2,0	12	TA201344.1191	TA501344.1191	TA601344.1191
12,00	M14		102	55	40	45	2,0	12	TA201344.1200	TA501344.1200	TA601344.1200
12,10	MJ13x1	1/2-20 (GAL)	107	60	43	45	2,1	14	TA201344.1210	TA501344.1210	TA601344.1210
12,15		1/2-20	107	60	43	45	2,1	14	TA201344.1215	TA501344.1215	TA601344.1215
12,20	9/16-12		107	60	43	45	2,1	14	TA201344.1220	TA501344.1220	TA601344.1220
12,30			107	60	43	45	2,1	14	TA201344.1230	TA501344.1230	TA601344.1230
12,50	M14x1,5	G1/4 (GAL)	107	60	43	45	2,1	14	TA201344.1250	TA501344.1250	TA601344.1250
12,55		M13x1 (GAL) / G1/4	107	60	43	45	2,1	14	TA201344.1255	TA501344.1255	TA601344.1255
12,60	MJ14x1,5	M13x1	107	60	43	45	2,1	14	TA201344.1260	TA501344.1260	TA601344.1260
12,70		M13x0,75	107	60	43	45	2,2	14	TA201344.1270	TA501344.1270	TA601344.1270
12,80	M14x1,25		107	60	43	45	2,2	14	TA201344.1280	TA501344.1280	TA601344.1280
12,90	MJ14x1,25 / 9/16-18		107	60	43	45	2,2	14	TA201344.1290	TA501344.1290	TA601344.1290
13,00	M14x1		107	60	43	45	2,2	14	TA201344.1300	TA501344.1300	TA601344.1300
13,10	MJ14x1	M14	107	60	43	45	2,2	14	TA201344.1310	TA501344.1310	TA601344.1310
13,30		9/16-12	107	60	43	45	2,3	14	TA201344.1330	TA501344.1330	TA601344.1330
13,35		M14x1,5	107	60	43	45	2,3	14	TA201344.1335	TA501344.1335	TA601344.1335
13,45		M14x1,25	107	60	43	45	2,3	14	TA201344.1345	TA501344.1345	TA601344.1345
13,49			107	60	43	45	2,3	14	TA201344.1349	TA501344.1349	TA601344.1349

$\emptyset$  13,50 mm -  $\emptyset$  18,00 mm



## BasicDrill-BD101

ほとんどすべての被削材に  
For almost all materials

超硬

TIALN

DIN  
6537 K

R30

Z2



4FF



140°



IT9-IT10

DIN 6535

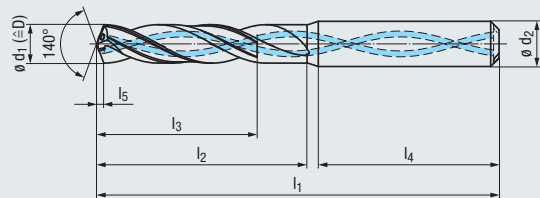


BASIC

オールラウンド



**3 x D** ショート  
Short design



ドリル深さ  
Drill depth

**3 x D**

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

▶▶ 14

<b>P</b> 1.1-5.1	<b>M</b> 1.1-3.1	<b>K</b> 1.1-4.2
<b>N</b> 1.1-2.3	<b>S</b> 1.2-1.3, 2.2-2.3	<b>H</b> 1.1-1.3

ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	BasicDrill BD101-3xD	BasicDrill BD101-3xD	BasicDrill BD101-3xD
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE	HB
13,50	5/8-11		107	60	43	45	2,3	14	TA201344.1350	TA501344.1350	TA601344.1350
13,60	MJ15x1,5	M14x1 / 9/16-18 (GAL)	107	60	43	45	2,3	14	TA201344.1360	TA501344.1360	TA601344.1360
13,65		9/16-18	107	60	43	45	2,3	14	TA201344.1365	TA501344.1365	TA601344.1365
13,70		M14x0,75	107	60	43	45	2,3	14	TA201344.1370	TA501344.1370	TA601344.1370
13,80			107	60	43	45	2,3	14	TA201344.1380	TA501344.1380	TA601344.1380
13,89			107	60	43	45	2,4	14	TA201344.1389	TA501344.1389	TA601344.1389
14,00	M16 / M15x1		107	60	43	45	2,4	14	TA201344.1400	TA501344.1400	TA601344.1400
14,10	MJ15x1		115	65	45	48	2,4	16	TA201344.1410	TA501344.1410	TA601344.1410
14,20	M15x0,75		115	65	45	48	2,4	16	TA201344.1420	TA501344.1420	TA601344.1420
14,29			115	65	45	48	2,4	16	TA201344.1429	TA501344.1429	TA601344.1429
14,50	M16x1,5 / 5/8-18		115	65	45	48	2,5	16	TA201344.1450	TA501344.1450	TA601344.1450
14,60	MJ16x1,5	M15x1	115	65	45	48	2,5	16	TA201344.1460	TA501344.1460	TA601344.1460
14,68			115	65	45	48	2,5	16	TA201344.1468	TA501344.1468	TA601344.1468
14,70		M15x0,75	115	65	45	48	2,5	16	TA201344.1470	TA501344.1470	TA601344.1470
14,80		5/8-11	115	65	45	48	2,5	16	TA201344.1480	TA501344.1480	TA601344.1480
15,00	M16x1		115	65	45	48	2,5	16	TA201344.1500	TA501344.1500	TA601344.1500
15,08			115	65	45	48	2,6	16	TA201344.1508	TA501344.1508	TA601344.1508
15,10	MJ16x1	M16	115	65	45	48	2,6	16	TA201344.1510	TA501344.1510	TA601344.1510
15,20	M16x0,75	5/8-18 (GAL)	115	65	45	48	2,6	16	TA201344.1520	TA501344.1520	TA601344.1520
15,25	G3/8	5/8-18	115	65	45	48	2,6	16	TA201344.1525	TA501344.1525	TA601344.1525
15,35		M16x1,5	115	65	45	48	2,6	16	TA201344.1535	TA501344.1535	TA601344.1535
15,50	M18		115	65	45	48	2,6	16	TA201344.1550	TA501344.1550	TA601344.1550
15,60		M16x1	115	65	45	48	2,6	16	TA201344.1560	TA501344.1560	TA601344.1560
15,80	MJ18x2,5		115	65	45	48	2,7	16	TA201344.1580	TA501344.1580	TA601344.1580
15,88			115	65	45	48	2,7	16	TA201344.1588	TA501344.1588	TA601344.1588
16,00	M18x2		115	65	45	48	2,7	16	TA201344.1600	TA501344.1600	TA601344.1600
16,27			123	73	51	48	2,8	18	TA201344.1627	TA501344.1627	TA601344.1627
16,50	M18x1,5 / 3/4-10		123	73	51	48	2,8	18	TA201344.1650	TA501344.1650	TA601344.1650
16,67			123	73	51	48	2,8	18	TA201344.1667	TA501344.1667	TA601344.1667
17,00	M18x1		123	73	51	48	2,9	18	TA201344.1700	TA501344.1700	TA601344.1700
17,46			123	73	51	48	3,0	18	TA201344.1746	TA501344.1746	TA601344.1746
17,50	M20 / 3/4-16		123	73	51	48	3,0	18	TA201344.1750	TA501344.1750	TA601344.1750
18,00	M20x2		123	73	51	48	3,1	18	TA201344.1800	TA501344.1800	TA601344.1800

☞ ø 3,00 mm - ø 13,49 mm



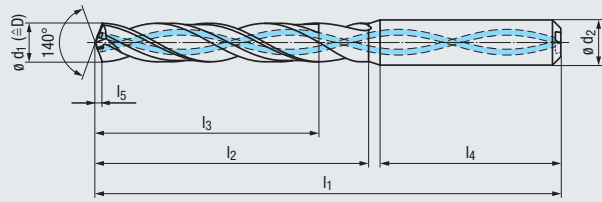
ハイドロチャックは  
68 - 69ページをご覧ください

Hydraulic expansion chucks,  
see page 68 - 69

### BasicDrill-BD101

ほとんどすべての被削材に  
For almost all materials

**5xD** ロング  
Long design



**超硬** TIALN

**DIN 6537 L** R30

**Z2** **4FF**

**140°** **IT9-IT10**

**DIN 6535**

- HA
- HB
- HE

**BASIC**  
オールラウンド

Product Finder

$v_c / f$

**BASIC**

STEEL

INOX

G

HCUT

SpotDrill

Zubehör  
Accessories

3 x D

5 x D

6 x D

8 x D

12 x D

2-3,5 x D

ドリル深さ  
Drill depth

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

**5 x D**

**P** 1.1-5.1 **M** 1.1-3.1 **K** 1.1-4.2

**N** 1.1-2.3 **S** 1.2-1.3, 2.2-2.3 **H** 1.1-1.3

$\phi d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\phi d_2$ h6	BasicDrill BD101-5xD	BasicDrill BD101-5xD	BasicDrill BD101-5xD
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE	HB
3,00	M3,5x0,5 / MJ3,5x0,6		66	28	23	36	0,5	6	TA211344.0300	TA511344.0300	TA611344.0300
3,10			66	28	23	36	0,5	6	TA211344.0310	TA511344.0310	TA611344.0310
3,15	M3,5x0,35	#6-32	66	28	23	36	0,5	6	TA211344.0315	TA511344.0315	TA611344.0315
3,18			66	28	23	36	0,5	6	TA211344.0318	TA511344.0318	TA611344.0318
3,20	MJ3,5x0,35		66	28	23	36	0,5	6	TA211344.0320	TA511344.0320	TA611344.0320
3,22		#6-40	66	28	23	36	0,5	6	TA211344.0322	TA511344.0322	TA611344.0322
3,25		M3,5	66	28	23	36	0,6	6	TA211344.0325	TA511344.0325	TA611344.0325
3,30	M4	M3,5x0,5	66	28	23	36	0,6	6	TA211344.0330	TA511344.0330	TA611344.0330
3,35			66	28	23	36	0,6	6	TA211344.0335	TA511344.0335	TA611344.0335
3,38		M3,5x0,35	66	28	23	36	0,6	6	TA211344.0338	TA511344.0338	TA611344.0338
3,40	MJ4x0,7		66	28	23	36	0,6	6	TA211344.0340	TA511344.0340	TA611344.0340
3,50	M4x0,5 / #8-32 / #8-36		66	28	23	36	0,6	6	TA211344.0350	TA511344.0350	TA611344.0350
3,57			66	28	23	36	0,6	6	TA211344.0357	TA511344.0357	TA611344.0357
3,60	MJ4x0,5		66	28	23	36	0,6	6	TA211344.0360	TA511344.0360	TA611344.0360
3,65	M4x0,35		66	28	23	36	0,6	6	TA211344.0365	TA511344.0365	TA611344.0365
3,70	M4,5	M4	66	28	23	36	0,6	6	TA211344.0370	TA511344.0370	TA611344.0370
3,80		M4x0,5 / #8-32	74	36	29	36	0,6	6	TA211344.0380	TA511344.0380	TA611344.0380
3,85		#8-36	74	36	29	36	0,7	6	TA211344.0385	TA511344.0385	TA611344.0385
3,88		M4x0,35	74	36	29	36	0,7	6	TA211344.0388	TA511344.0388	TA611344.0388
3,90	MJ4,5x0,75 / #10-24		74	36	29	36	0,7	6	TA211344.0390	TA511344.0390	TA611344.0390
3,97			74	36	29	36	0,7	6	TA211344.0397	TA511344.0397	TA611344.0397
4,00			74	36	29	36	0,7	6	TA211344.0400	TA511344.0400	TA611344.0400
4,04			74	36	29	36	0,7	6	TA211344.0404	TA511344.0404	TA611344.0404
4,10	MJ4,5x0,5 / #10-32		74	36	29	36	0,7	6	TA211344.0410	TA511344.0410	TA611344.0410
4,15	M5x0,9		74	36	29	36	0,7	6	TA211344.0415	TA511344.0415	TA611344.0415
4,20	M5 / M5x0,75	M4,5	74	36	29	36	0,7	6	TA211344.0420	TA511344.0420	TA611344.0420
4,30	MJ5x0,8	M4,5x0,5 / #10-24 (GAL)	74	36	29	36	0,7	6	TA211344.0430	TA511344.0430	TA611344.0430
4,35		#10-24	74	36	29	36	0,7	6	TA211344.0435	TA511344.0435	TA611344.0435
4,37			74	36	29	36	0,7	6	TA211344.0437	TA511344.0437	TA611344.0437
4,40			74	36	29	36	0,7	6	TA211344.0440	TA511344.0440	TA611344.0440
4,45		#10-32	74	36	29	36	0,8	6	TA211344.0445	TA511344.0445	TA611344.0445
4,50	M5x0,5 / #12-24		74	36	29	36	0,8	6	TA211344.0450	TA511344.0450	TA611344.0450
4,60	M5,5 / MJ5x0,5 / #12-28		74	36	29	36	0,8	6	TA211344.0460	TA511344.0460	TA611344.0460
4,65		M5	74	36	29	36	0,8	6	TA211344.0465	TA511344.0465	TA611344.0465
4,70		M5x0,75	74	36	29	36	0,8	6	TA211344.0470	TA511344.0470	TA611344.0470
4,76			82	44	35	36	0,8	6	TA211344.0476	TA511344.0476	TA611344.0476
4,80		M5x0,5	82	44	35	36	0,8	6	TA211344.0480	TA511344.0480	TA611344.0480
4,90			82	44	35	36	0,8	6	TA211344.0490	TA511344.0490	TA611344.0490
5,00	M6	#12-24	82	44	35	36	0,8	6	TA211344.0500	TA511344.0500	TA611344.0500
5,10	MJ6x1 / 1/4-20	M5,5 / #12-28	82	44	35	36	0,9	6	TA211344.0510	TA511344.0510	TA611344.0510
5,11			82	44	35	36	0,9	6	TA211344.0511	TA511344.0511	TA611344.0511
5,16			82	44	35	36	0,9	6	TA211344.0516	TA511344.0516	TA611344.0516
5,20	M6x0,75		82	44	35	36	0,9	6	TA211344.0520	TA511344.0520	TA611344.0520
5,30		M5,5x0,5	82	44	35	36	0,9	6	TA211344.0530	TA511344.0530	TA611344.0530
5,40			82	44	35	36	0,9	6	TA211344.0540	TA511344.0540	TA611344.0540
5,41			82	44	35	36	0,9	6	TA211344.0541	TA511344.0541	TA611344.0541
5,50	M6x0,5 / 1/4-28		82	44	35	36	0,9	6	TA211344.0550	TA511344.0550	TA611344.0550
5,55		M6 (GAL)	82	44	35	36	0,9	6	TA211344.0555	TA511344.0555	TA611344.0555
5,56			82	44	35	36	0,9	6	TA211344.0556	TA511344.0556	TA611344.0556

$\phi$  5,60 mm -  $\phi$  18,00 mm

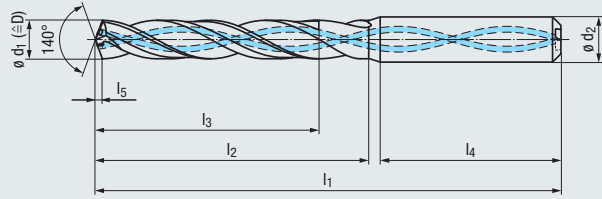


- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

**BasicDrill-BD101**

ほとんどすべての被削材に  
For almost all materials

**5 x D** ロング  
Long design



**超硬** **TIALN**

**DIN 6537 L** **R30**

**Z2** **4FF**

**140°** **IT9-IT10**

**DIN 6535**  
 HA  
 HB  
 HE



ドリル深さ  
Drill depth

**5 x D**

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

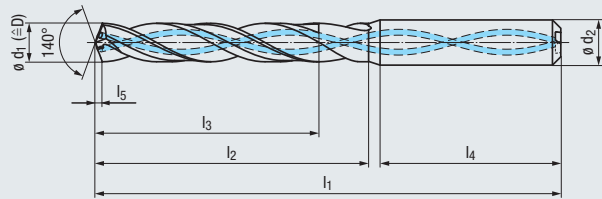
**P** 1.1-5.1 **M** 1.1-3.1 **K** 1.1-4.2  
**N** 1.1-2.3 **S** 1.2-1.3, 2.2-2.3 **H** 1.1-1.3

$\varnothing d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\varnothing d_2$ h6	BasicDrill BD101-5xD	BasicDrill BD101-5xD	BasicDrill BD101-5xD
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE	HB
5,60	MJ6x0,5	M6	82	44	35	36	1,0	6	TA211344.0560	TA511344.0560	TA611344.0560
5,70		M6x0,75 / 1/4-20 (GAL)	82	44	35	36	1,0	6	TA211344.0570	TA511344.0570	TA611344.0570
5,75		1/4-20	82	44	35	36	1,0	6	TA211344.0575	TA511344.0575	TA611344.0575
5,80		M6x0,5	82	44	35	36	1,0	6	TA211344.0580	TA511344.0580	TA611344.0580
5,90			82	44	35	36	1,0	6	TA211344.0590	TA511344.0590	TA611344.0590
5,95		1/4-28	82	44	35	36	1,0	6	TA211344.0595	TA511344.0595	TA611344.0595
6,00	M7		82	44	35	36	1,0	6	TA211344.0600	TA511344.0600	TA611344.0600
6,10	MJ7x1		91	53	43	36	1,0	8	TA211344.0610	TA511344.0610	TA611344.0610
6,20	M7x0,75		91	53	43	36	1,1	8	TA211344.0620	TA511344.0620	TA611344.0620
6,30			91	53	43	36	1,1	8	TA211344.0630	TA511344.0630	TA611344.0630
6,35	MJ7x0,75		91	53	43	36	1,1	8	TA211344.0635	TA511344.0635	TA611344.0635
6,40			91	53	43	36	1,1	8	TA211344.0640	TA511344.0640	TA611344.0640
6,50	M7x0,5		91	53	43	36	1,1	8	TA211344.0650	TA511344.0650	TA611344.0650
6,53			91	53	43	36	1,1	8	TA211344.0653	TA511344.0653	TA611344.0653
6,60	5/16-18	M7	91	53	43	36	1,1	8	TA211344.0660	TA511344.0660	TA611344.0660
6,70		M7x0,75	91	53	43	36	1,1	8	TA211344.0670	TA511344.0670	TA611344.0670
6,75			91	53	43	36	1,1	8	TA211344.0675	TA511344.0675	TA611344.0675
6,80	M8 / G1/16	M7x0,5	91	53	43	36	1,2	8	TA211344.0680	TA511344.0680	TA611344.0680
6,90	MJ8x1,25 / 5/16-24		91	53	43	36	1,2	8	TA211344.0690	TA511344.0690	TA611344.0690
7,00	M8x1		91	53	43	36	1,2	8	TA211344.0700	TA511344.0700	TA611344.0700
7,10	MJ8x1		91	53	43	36	1,2	8	TA211344.0710	TA511344.0710	TA611344.0710
7,15			91	53	43	36	1,2	8	TA211344.0715	TA511344.0715	TA611344.0715
7,20	M8x0,75		91	53	43	36	1,2	8	TA211344.0720	TA511344.0720	TA611344.0720
7,25		5/16-18 (GAL) / G1/16	91	53	43	36	1,2	8	TA211344.0725	TA511344.0725	TA611344.0725
7,30		5/16-18	91	53	43	36	1,2	8	TA211344.0730	TA511344.0730	TA611344.0730
7,40		M8 (GAL) / 5/16-24 (GAL)	91	53	43	36	1,3	8	TA211344.0740	TA511344.0740	TA611344.0740
7,45		M8 / 5/16-24	91	53	43	36	1,3	8	TA211344.0745	TA511344.0745	TA611344.0745
7,50	M8x0,5		91	53	43	36	1,3	8	TA211344.0750	TA511344.0750	TA611344.0750
7,54			91	53	43	36	1,3	8	TA211344.0754	TA511344.0754	TA611344.0754
7,60		M8x1	91	53	43	36	1,3	8	TA211344.0760	TA511344.0760	TA611344.0760
7,70		M8x0,75	91	53	43	36	1,3	8	TA211344.0770	TA511344.0770	TA611344.0770
7,80	M9	M8x0,5	91	53	43	36	1,3	8	TA211344.0780	TA511344.0780	TA611344.0780
7,90	MJ9x1,25		91	53	43	36	1,3	8	TA211344.0790	TA511344.0790	TA611344.0790
7,94			91	53	43	36	1,3	8	TA211344.0794	TA511344.0794	TA611344.0794
8,00	M9x1 / 3/8-16		91	53	43	36	1,4	8	TA211344.0800	TA511344.0800	TA611344.0800
8,10	MJ9x1		103	61	49	40	1,4	10	TA211344.0810	TA511344.0810	TA611344.0810
8,20	M9x0,75		103	61	49	40	1,4	10	TA211344.0820	TA511344.0820	TA611344.0820
8,30			103	61	49	40	1,4	10	TA211344.0830	TA511344.0830	TA611344.0830
8,33			103	61	49	40	1,4	10	TA211344.0833	TA511344.0833	TA611344.0833
8,40		M9 (GAL)	103	61	49	40	1,4	10	TA211344.0840	TA511344.0840	TA611344.0840
8,45		M9	103	61	49	40	1,4	10	TA211344.0845	TA511344.0845	TA611344.0845
8,50	M10 / M9x0,5 / 3/8-24		103	61	49	40	1,4	10	TA211344.0850	TA511344.0850	TA611344.0850
8,60	MJ10x1,5	M9x1	103	61	49	40	1,5	10	TA211344.0860	TA511344.0860	TA611344.0860
8,70		M9x0,75	103	61	49	40	1,5	10	TA211344.0870	TA511344.0870	TA611344.0870
8,73			103	61	49	40	1,5	10	TA211344.0873	TA511344.0873	TA611344.0873
8,80	M10x1,25 / G1/8	M9x0,5 / 3/8-16	103	61	49	40	1,5	10	TA211344.0880	TA511344.0880	TA611344.0880
8,90	MJ10x1,25		103	61	49	40	1,5	10	TA211344.0890	TA511344.0890	TA611344.0890
9,00	M10x1	3/8-24 (GAL)	103	61	49	40	1,5	10	TA211344.0900	TA511344.0900	TA611344.0900
9,05		3/8-24	103	61	49	40	1,5	10	TA211344.0905	TA511344.0905	TA611344.0905

BasicDrill-BD101

ほとんどすべての被削材に  
For almost all materials

5xD ロング  
Long design



超硬 TIALN

DIN 6537 L R30

Z2 4FF

140° IT9-IT10

DIN 6535

- HA
- HB
- HE

BASIC  
オールラウンド



ドリル深さ  
Drill depth

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

P 1.1-5.1 M 1.1-3.1 K 1.1-4.2  
N 1.1-2.3 S 1.2-1.3, 2.2-2.3 H 1.1-1.3

5 x D

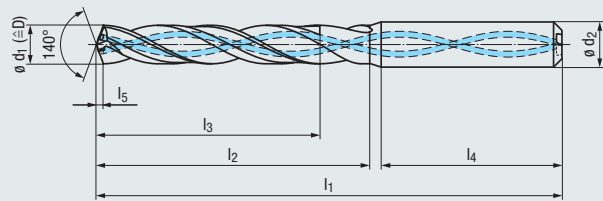
φ d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	φ d <sub>2</sub> h6	BasicDrill BD101-5xD	BasicDrill BD101-5xD	BasicDrill BD101-5xD
									HA	HE	HB
9,10	MJ10x1		103	61	49	40	1,5	10	TA211344.0910	TA511344.0910	TA611344.0910
9,13			103	61	49	40	1,5	10	TA211344.0913	TA511344.0913	TA611344.0913
9,20	M10x0,75		103	61	49	40	1,6	10	TA211344.0920	TA511344.0920	TA611344.0920
9,30		M10 (GAL)	103	61	49	40	1,6	10	TA211344.0930	TA511344.0930	TA611344.0930
9,35	MJ10x0,75	M10	103	61	49	40	1,6	10	TA211344.0935	TA511344.0935	TA611344.0935
9,40	7/16-14	M10x1,25 (GAL)	103	61	49	40	1,6	10	TA211344.0940	TA511344.0940	TA611344.0940
9,45		M10x1,25	103	61	49	40	1,6	10	TA211344.0945	TA511344.0945	TA611344.0945
9,50	M11 / M10x0,5		103	61	49	40	1,6	10	TA211344.0950	TA511344.0950	TA611344.0950
9,53			103	61	49	40	1,6	10	TA211344.0953	TA511344.0953	TA611344.0953
9,60	MJ10x0,5 / MJ11x1,5	M10x1	103	61	49	40	1,6	10	TA211344.0960	TA511344.0960	TA611344.0960
9,70		M10x0,75	103	61	49	40	1,6	10	TA211344.0970	TA511344.0970	TA611344.0970
9,80		M10x0,5	103	61	49	40	1,7	10	TA211344.0980	TA511344.0980	TA611344.0980
9,90	MJ11x1,25 / 7/16-20		103	61	49	40	1,7	10	TA211344.0990	TA511344.0990	TA611344.0990
9,92			103	61	49	40	1,7	10	TA211344.0992	TA511344.0992	TA611344.0992
10,00	M11x1		103	61	49	40	1,7	10	TA211344.1000	TA511344.1000	TA611344.1000
10,10	MJ11x1		118	71	56	45	1,7	12	TA211344.1010	TA511344.1010	TA611344.1010
10,20	M12 / M11x0,75	7/16-14 (GAL)	118	71	56	45	1,7	12	TA211344.1020	TA511344.1020	TA611344.1020
10,25		7/16-14	118	71	56	45	1,7	12	TA211344.1025	TA511344.1025	TA611344.1025
10,30		M11 (GAL)	118	71	56	45	1,7	12	TA211344.1030	TA511344.1030	TA611344.1030
10,32			118	71	56	45	1,8	12	TA211344.1032	TA511344.1032	TA611344.1032
10,35	MJ11x0,75	M11	118	71	56	45	1,8	12	TA211344.1035	TA511344.1035	TA611344.1035
10,40			118	71	56	45	1,8	12	TA211344.1040	TA511344.1040	TA611344.1040
10,50	M12x1,5	7/16-20 (GAL)	118	71	56	45	1,8	12	TA211344.1050	TA511344.1050	TA611344.1050
10,55		M11x1 (GAL) / 7/16-20	118	71	56	45	1,8	12	TA211344.1055	TA511344.1055	TA611344.1055
10,72			118	71	56	45	1,8	12	TA211344.1072	TA511344.1072	TA611344.1072
10,80	M12x1,25 / 1/2-13		118	71	56	45	1,8	12	TA211344.1080	TA511344.1080	TA611344.1080
10,90	MJ12x1,25		118	71	56	45	1,8	12	TA211344.1090	TA511344.1090	TA611344.1090
11,00	M12x1		118	71	56	45	1,9	12	TA211344.1100	TA511344.1100	TA611344.1100
11,11			118	71	56	45	1,9	12	TA211344.1111	TA511344.1111	TA611344.1111
11,20	M12x0,75	M12 (GAL)	118	71	56	45	1,9	12	TA211344.1120	TA511344.1120	TA611344.1120
11,25		M12	118	71	56	45	1,9	12	TA211344.1125	TA511344.1125	TA611344.1125
11,30		M12x1,5 (GAL)	118	71	56	45	1,9	12	TA211344.1130	TA511344.1130	TA611344.1130
11,35		M12x1,5	118	71	56	45	1,9	12	TA211344.1135	TA511344.1135	TA611344.1135
11,40		M12x1,25 (GAL)	118	71	56	45	1,9	12	TA211344.1140	TA511344.1140	TA611344.1140
11,45		M12x1,25	118	71	56	45	1,9	12	TA211344.1145	TA511344.1145	TA611344.1145
11,50	1/2-20		118	71	56	45	2,0	12	TA211344.1150	TA511344.1150	TA611344.1150
11,51			118	71	56	45	2,0	12	TA211344.1151	TA511344.1151	TA611344.1151
11,60		M12x1	118	71	56	45	2,0	12	TA211344.1160	TA511344.1160	TA611344.1160
11,80	G1/4	1/2-13	118	71	56	45	2,0	12	TA211344.1180	TA511344.1180	TA611344.1180
11,90			118	71	56	45	2,0	12	TA211344.1190	TA511344.1190	TA611344.1190
11,91			118	71	56	45	2,0	12	TA211344.1191	TA511344.1191	TA611344.1191
12,00	M14		118	71	56	45	2,0	12	TA211344.1200	TA511344.1200	TA611344.1200
12,10	MJ13x1	1/2-20 (GAL)	124	77	60	45	2,1	14	TA211344.1210	TA511344.1210	TA611344.1210
12,15		1/2-20	124	77	60	45	2,1	14	TA211344.1215	TA511344.1215	TA611344.1215
12,20			124	77	60	45	2,1	14	TA211344.1220	TA511344.1220	TA611344.1220
12,30			124	77	60	45	2,1	14	TA211344.1230	TA511344.1230	TA611344.1230
12,50	M14x1,5	G1/4 (GAL)	124	77	60	45	2,1	14	TA211344.1250	TA511344.1250	TA611344.1250
12,55		M13x1 (GAL) / G1/4	124	77	60	45	2,1	14	TA211344.1255	TA511344.1255	TA611344.1255
12,60	MJ14x1,5	M13x1	124	77	60	45	2,1	14	TA211344.1260	TA511344.1260	TA611344.1260

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

## BasicDrill-BD101

ほとんどすべての被削材に  
For almost all materials

**5 x D** ロング  
Long design



**超硬** TIALN

**DIN 6537 L** R30

**Z2** **4FF**

**140°** **IT9-IT10**

**DIN 6535**

- HA
- HB
- HE

BASIC  
オールラウンド



ドリル深さ  
Drill depth

**5 x D**

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

<b>P</b> 1.1-5.1	<b>M</b> 1.1-3.1	<b>K</b> 1.1-4.2
<b>N</b> 1.1-2.3	<b>S</b> 1.2-1.3, 2.2-2.3	<b>H</b> 1.1-1.3

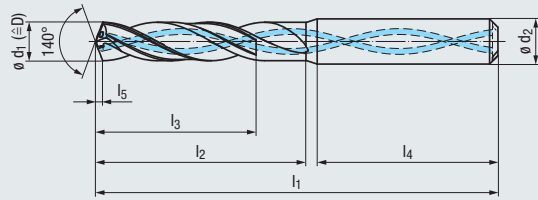
$\varnothing d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\varnothing d_2$ h6	BasicDrill BD101-5xD HA	BasicDrill BD101-5xD HE	BasicDrill BD101-5xD HB
	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$						
12,70		M13x0,75	124	77	60	45	2,2	14	TA211344.1270	TA511344.1270	TA611344.1270
12,80	M14x1,25		124	77	60	45	2,2	14	TA211344.1280	TA511344.1280	TA611344.1280
12,90	MJ14x1,25 / 9/16-18		124	77	60	45	2,2	14	TA211344.1290	TA511344.1290	TA611344.1290
13,00	M14x1		124	77	60	45	2,2	14	TA211344.1300	TA511344.1300	TA611344.1300
13,10	MJ14x1	M14	124	77	60	45	2,2	14	TA211344.1310	TA511344.1310	TA611344.1310
13,30		9/16-12	124	77	60	45	2,3	14	TA211344.1330	TA511344.1330	TA611344.1330
13,35		M14x1,5	124	77	60	45	2,3	14	TA211344.1335	TA511344.1335	TA611344.1335
13,45		M14x1,25	124	77	60	45	2,3	14	TA211344.1345	TA511344.1345	TA611344.1345
13,49			124	77	60	45	2,3	14	TA211344.1349	TA511344.1349	TA611344.1349
13,50	5/8-11		124	77	60	45	2,3	14	TA211344.1350	TA511344.1350	TA611344.1350
13,60	MJ15x1,5	M14x1 / 9/16-18 (GAL)	124	77	60	45	2,3	14	TA211344.1360	TA511344.1360	TA611344.1360
13,65		9/16-18	124	77	60	45	2,3	14	TA211344.1365	TA511344.1365	TA611344.1365
13,70		M14x0,75	124	77	60	45	2,3	14	TA211344.1370	TA511344.1370	TA611344.1370
13,80			124	77	60	45	2,3	14	TA211344.1380	TA511344.1380	TA611344.1380
13,89			124	77	60	45	2,4	14	TA211344.1389	TA511344.1389	TA611344.1389
14,00	M16 / M15x1		124	77	60	45	2,4	14	TA211344.1400	TA511344.1400	TA611344.1400
14,10	MJ15x1		133	83	63	48	2,4	16	TA211344.1410	TA511344.1410	TA611344.1410
14,20	M15x0,75		133	83	63	48	2,4	16	TA211344.1420	TA511344.1420	TA611344.1420
14,29			133	83	63	48	2,4	16	TA211344.1429	TA511344.1429	TA611344.1429
14,50	M16x1,5 / 5/8-18		133	83	63	48	2,5	16	TA211344.1450	TA511344.1450	TA611344.1450
14,60	MJ16x1,5	M15x1	133	83	63	48	2,5	16	TA211344.1460	TA511344.1460	TA611344.1460
14,68			133	83	63	48	2,5	16	TA211344.1468	TA511344.1468	TA611344.1468
14,70		M15x0,75	133	83	63	48	2,5	16	TA211344.1470	TA511344.1470	TA611344.1470
14,80		5/8-11	133	83	63	48	2,5	16	TA211344.1480	TA511344.1480	TA611344.1480
15,00	M16x1		133	83	63	48	2,5	16	TA211344.1500	TA511344.1500	TA611344.1500
15,08			133	83	63	48	2,6	16	TA211344.1508	TA511344.1508	TA611344.1508
15,10	MJ16x1	M16	133	83	63	48	2,6	16	TA211344.1510	TA511344.1510	TA611344.1510
15,20	M16x0,75	5/8-18 (GAL)	133	83	63	48	2,6	16	TA211344.1520	TA511344.1520	TA611344.1520
15,25	G3/8	5/8-18	133	83	63	48	2,6	16	TA211344.1525	TA511344.1525	TA611344.1525
15,35		M16x1,5	133	83	63	48	2,6	16	TA211344.1535	TA511344.1535	TA611344.1535
15,50	M18		133	83	63	48	2,6	16	TA211344.1550	TA511344.1550	TA611344.1550
15,60		M16x1	133	83	63	48	2,6	16	TA211344.1560	TA511344.1560	TA611344.1560
15,80	MJ18x2,5		133	83	63	48	2,7	16	TA211344.1580	TA511344.1580	TA611344.1580
15,88			133	83	63	48	2,7	16	TA211344.1588	TA511344.1588	TA611344.1588
16,00	M18x2		133	83	63	48	2,7	16	TA211344.1600	TA511344.1600	TA611344.1600
16,27			143	93	71	48	2,8	18	TA211344.1627	TA511344.1627	TA611344.1627
16,50	M18x1,5 / 3/4-10		143	93	71	48	2,8	18	TA211344.1650	TA511344.1650	TA611344.1650
16,67			143	93	71	48	2,8	18	TA211344.1667	TA511344.1667	TA611344.1667
17,00	M18x1		143	93	71	48	2,9	18	TA211344.1700	TA511344.1700	TA611344.1700
17,46			143	93	71	48	3,0	18	TA211344.1746	TA511344.1746	TA611344.1746
17,50	M20 / 3/4-16		143	93	71	48	3,0	18	TA211344.1750	TA511344.1750	TA611344.1750
18,00	M20x2		143	93	71	48	3,1	18	TA211344.1800	TA511344.1800	TA611344.1800

$\varnothing$  3,00 mm -  $\varnothing$  12,60 mm

SteelDrill-SD102

鋼の加工に  
For the machining of steel

**3xD** ショート  
Short design



超硬	ALTiN
DIN 6537 K	R30
Z2	4FF
140°	IT9-IT10
DIN 6535	
HA	HE

STEEL  
鋼

ドリル深さ  
Drill depth

アプリケーション - 被削材  
Applications - material ▶▶ 14

**3 x D**

P 1.1-5.1	K 1.1-4.2
S 1.2-1.3, 2.2-2.3	H 1.1-1.3

$\varnothing d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\varnothing d_2$ h6	SteelDrill SD102-3xD	SteelDrill SD102-3xD
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE
3,00	M3,5x0,5 / MJ3,5x0,6		62	20	14	36	0,5	6	TA201544.0300	TA501544.0300
3,10			62	20	14	36	0,5	6	TA201544.0310	TA501544.0310
3,15	M3,5x0,35	#6-32	62	20	14	36	0,5	6	TA201544.0315	TA501544.0315
3,18			62	20	14	36	0,5	6	TA201544.0318	TA501544.0318
3,20	MJ3,5x0,35		62	20	14	36	0,5	6	TA201544.0320	TA501544.0320
3,22		#6-40	62	20	14	36	0,5	6	TA201544.0322	TA501544.0322
3,25		M3,5	62	20	14	36	0,6	6	TA201544.0325	TA501544.0325
3,30	M4	M3,5x0,5	62	20	14	36	0,6	6	TA201544.0330	TA501544.0330
3,35			62	20	14	36	0,6	6	TA201544.0335	TA501544.0335
3,38		M3,5x0,35	62	20	14	36	0,6	6	TA201544.0338	TA501544.0338
3,40	MJ4x0,7		62	20	14	36	0,6	6	TA201544.0340	TA501544.0340
3,50	M4x0,5 / #8-32 / #8-36		62	20	14	36	0,6	6	TA201544.0350	TA501544.0350
3,55			62	20	14	36	0,6	6	TA201544.0355	TA501544.0355
3,57			62	20	14	36	0,6	6	TA201544.0357	TA501544.0357
3,60	MJ4x0,5		62	20	14	36	0,6	6	TA201544.0360	TA501544.0360
3,65	M4x0,35		62	20	14	36	0,6	6	TA201544.0365	TA501544.0365
3,70	M4,5	M4	62	20	14	36	0,6	6	TA201544.0370	TA501544.0370
3,80		M4x0,5 / #8-32	66	24	17	36	0,6	6	TA201544.0380	TA501544.0380
3,85		#8-36	66	24	17	36	0,7	6	TA201544.0385	TA501544.0385
3,88		M4x0,35	66	24	17	36	0,7	6	TA201544.0388	TA501544.0388
3,90	MJ4,5x0,75 / #10-24		66	24	17	36	0,7	6	TA201544.0390	TA501544.0390
3,97			66	24	17	36	0,7	6	TA201544.0397	TA501544.0397
4,00			66	24	17	36	0,7	6	TA201544.0400	TA501544.0400
4,04			66	24	17	36	0,7	6	TA201544.0404	TA501544.0404
4,10	MJ4,5x0,5 / #10-32		66	24	17	36	0,7	6	TA201544.0410	TA501544.0410
4,15	M5x0,9		66	24	17	36	0,7	6	TA201544.0415	TA501544.0415
4,20	M5 / M5x0,75	M4,5	66	24	17	36	0,7	6	TA201544.0420	TA501544.0420
4,30	MJ5x0,8	M4,5x0,5 / #10-24 (GAL)	66	24	17	36	0,7	6	TA201544.0430	TA501544.0430
4,35		#10-24	66	24	17	36	0,7	6	TA201544.0435	TA501544.0435
4,37			66	24	17	36	0,7	6	TA201544.0437	TA501544.0437
4,40			66	24	17	36	0,7	6	TA201544.0440	TA501544.0440
4,45		#10-32	66	24	17	36	0,8	6	TA201544.0445	TA501544.0445
4,50	M5x0,5 / #12-24		66	24	17	36	0,8	6	TA201544.0450	TA501544.0450
4,60	M5,5 / MJ5x0,5 / #12-28		66	24	17	36	0,8	6	TA201544.0460	TA501544.0460
4,65		M5	66	24	17	36	0,8	6	TA201544.0465	TA501544.0465
4,70		M5x0,75	66	24	17	36	0,8	6	TA201544.0470	TA501544.0470
4,76			66	28	20	36	0,8	6	TA201544.0476	TA501544.0476
4,80		M5x0,5	66	28	20	36	0,8	6	TA201544.0480	TA501544.0480
4,90			66	28	20	36	0,8	6	TA201544.0490	TA501544.0490
5,00	M6	#12-24	66	28	20	36	0,8	6	TA201544.0500	TA501544.0500
5,10	MJ6x1 / 1/4-20	M5,5 / #12-28	66	28	20	36	0,9	6	TA201544.0510	TA501544.0510
5,11			66	28	20	36	0,9	6	TA201544.0511	TA501544.0511
5,16			66	28	20	36	0,9	6	TA201544.0516	TA501544.0516
5,20	M6x0,75		66	28	20	36	0,9	6	TA201544.0520	TA501544.0520
5,25			66	28	20	36	0,9	6	TA201544.0525	TA501544.0525
5,30		M5,5x0,5	66	28	20	36	0,9	6	TA201544.0530	TA501544.0530
5,40			66	28	20	36	0,9	6	TA201544.0540	TA501544.0540
5,41			66	28	20	36	0,9	6	TA201544.0541	TA501544.0541
5,50	M6x0,5 / 1/4-28		66	28	20	36	0,9	6	TA201544.0550	TA501544.0550
5,55		M6 (GAL)	66	28	20	36	0,9	6	TA201544.0555	TA501544.0555
5,56			66	28	20	36	0,9	6	TA201544.0556	TA501544.0556
5,60	MJ6x0,5	M6	66	28	20	36	1,0	6	TA201544.0560	TA501544.0560

Product Finder

$v_c / f$

BASIC

STEEL

INOX

G

HCUT

SpotDrill

Zubehör  
Accessories

3 x D

5 x D

6 x D

8 x D

12 x D

2-3,5 x D

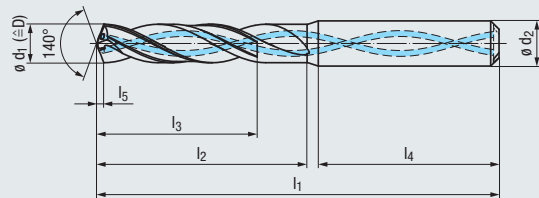


- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

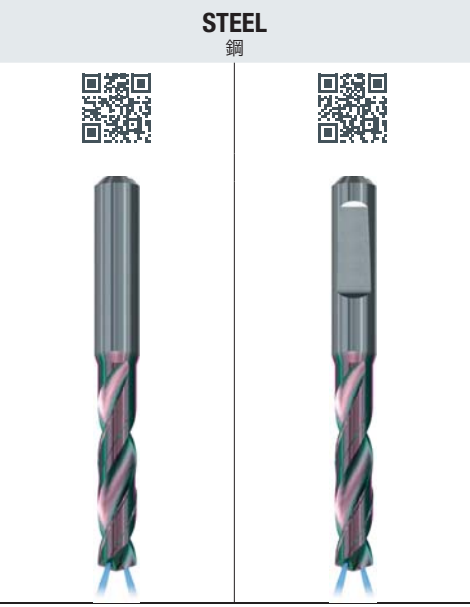
**SteelDrill-SD102**

鋼の加工に  
For the machining of steel

**3 x D** ショート  
Short design



超硬	ALTiN
DIN 6537 K	R30
Z2	4FF
140°	IT9-IT10
DIN 6535	
HA HE	



ドリル深さ  
Drill depth

アプリケーション - 被削材  
Applications - material ▶▶ 14

**3 x D**

P 1.1-5.1	K 1.1-4.2
S 1.2-1.3, 2.2-2.3	H 1.1-1.3

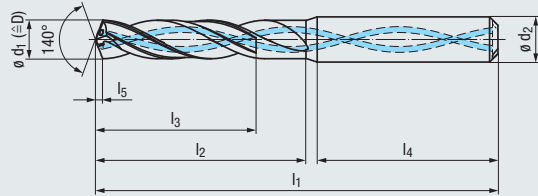
$\emptyset d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\emptyset d_2$ h6	SteelDrill SD102-3xD	SteelDrill SD102-3xD
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE
5,70		M6x0,75 / 1/4-20 (GAL)	66	28	20	36	1,0	6	TA201544.0570	TA501544.0570
5,75		1/4-20	66	28	20	36	1,0	6	TA201544.0575	TA501544.0575
5,80		M6x0,5	66	28	20	36	1,0	6	TA201544.0580	TA501544.0580
5,90			66	28	20	36	1,0	6	TA201544.0590	TA501544.0590
5,95		1/4-28	66	28	20	36	1,0	6	TA201544.0595	TA501544.0595
6,00	M7		66	28	20	36	1,0	6	TA201544.0600	TA501544.0600
6,10	MJ7x1		79	34	24	36	1,0	8	TA201544.0610	TA501544.0610
6,20	M7x0,75		79	34	24	36	1,1	8	TA201544.0620	TA501544.0620
6,30			79	34	24	36	1,1	8	TA201544.0630	TA501544.0630
6,35	MJ7x0,75		79	34	24	36	1,1	8	TA201544.0635	TA501544.0635
6,40			79	34	24	36	1,1	8	TA201544.0640	TA501544.0640
6,50	M7x0,5		79	34	24	36	1,1	8	TA201544.0650	TA501544.0650
6,53			79	34	24	36	1,1	8	TA201544.0653	TA501544.0653
6,60	5/16-18	M7	79	34	24	36	1,1	8	TA201544.0660	TA501544.0660
6,70		M7x0,75	79	34	24	36	1,1	8	TA201544.0670	TA501544.0670
6,75			79	34	24	36	1,1	8	TA201544.0675	TA501544.0675
6,80	M8 / G1/16	M7x0,5	79	34	24	36	1,2	8	TA201544.0680	TA501544.0680
6,90	MJ8x1,25 / 5/16-24		79	34	24	36	1,2	8	TA201544.0690	TA501544.0690
7,00	M8x1		79	34	24	36	1,2	8	TA201544.0700	TA501544.0700
7,10	MJ8x1		79	41	29	36	1,2	8	TA201544.0710	TA501544.0710
7,15			79	41	29	36	1,2	8	TA201544.0715	TA501544.0715
7,20	M8x0,75		79	41	29	36	1,2	8	TA201544.0720	TA501544.0720
7,25		5/16-18 (GAL) / G1/16	79	41	29	36	1,2	8	TA201544.0725	TA501544.0725
7,30		5/16-18	79	41	29	36	1,2	8	TA201544.0730	TA501544.0730
7,40		M8 (GAL) / 5/16-24 (GAL)	79	41	29	36	1,3	8	TA201544.0740	TA501544.0740
7,45		M8 / 5/16-24	79	41	29	36	1,3	8	TA201544.0745	TA501544.0745
7,50	M8x0,5		79	41	29	36	1,3	8	TA201544.0750	TA501544.0750
7,54			79	41	29	36	1,3	8	TA201544.0754	TA501544.0754
7,60		M8x1	79	41	29	36	1,3	8	TA201544.0760	TA501544.0760
7,70		M8x0,75	79	41	29	36	1,3	8	TA201544.0770	TA501544.0770
7,80	M9	M8x0,5	79	41	29	36	1,3	8	TA201544.0780	TA501544.0780
7,90	MJ9x1,25		79	41	29	36	1,3	8	TA201544.0790	TA501544.0790
7,94			79	41	29	36	1,3	8	TA201544.0794	TA501544.0794
8,00	M9x1 / 3/8-16		79	41	29	36	1,4	8	TA201544.0800	TA501544.0800
8,10	MJ9x1		89	47	35	40	1,4	10	TA201544.0810	TA501544.0810
8,20	M9x0,75		89	47	35	40	1,4	10	TA201544.0820	TA501544.0820
8,30			89	47	35	40	1,4	10	TA201544.0830	TA501544.0830
8,33			89	47	35	40	1,4	10	TA201544.0833	TA501544.0833
8,40		M9 (GAL)	89	47	35	40	1,4	10	TA201544.0840	TA501544.0840
8,45		M9	89	47	35	40	1,4	10	TA201544.0845	TA501544.0845
8,50	M10 / M9x0,5 / 3/8-24		89	47	35	40	1,4	10	TA201544.0850	TA501544.0850
8,60	MJ10x1,5	M9x1	89	47	35	40	1,5	10	TA201544.0860	TA501544.0860
8,70		M9x0,75	89	47	35	40	1,5	10	TA201544.0870	TA501544.0870
8,73			89	47	35	40	1,5	10	TA201544.0873	TA501544.0873
8,80	M10x1,25 / G1/8	M9x0,5 / 3/8-16	89	47	35	40	1,5	10	TA201544.0880	TA501544.0880
8,90	MJ10x1,25		89	47	35	40	1,5	10	TA201544.0890	TA501544.0890
9,00	M10x1	3/8-24 (GAL)	89	47	35	40	1,5	10	TA201544.0900	TA501544.0900
9,05		3/8-24	89	47	35	40	1,5	10	TA201544.0905	TA501544.0905
9,10	MJ10x1		89	47	35	40	1,5	10	TA201544.0910	TA501544.0910
9,13			89	47	35	40	1,5	10	TA201544.0913	TA501544.0913
9,20	M10x0,75		89	47	35	40	1,6	10	TA201544.0920	TA501544.0920
9,30		M10 (GAL)	89	47	35	40	1,6	10	TA201544.0930	TA501544.0930



### SteelDrill-SD102

鋼の加工に  
For the machining of steel

**3xD** ショート  
Short design



**超硬** ALTIN

**DIN 6537 K** R30

**Z2** **4FF**

**140°** **IT9-IT10**

**DIN 6535**

HA HE

**STEEL**  
鋼

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- G
- HCUT
- SpotDrill
- Zubehör  
Accessories

ドリル深さ  
Drill depth

アプリケーション - 被削材  
Applications - material ▶▶ 14

**3 x D**

**P** 1.1-5.1 **K** 1.1-4.2  
**S** 1.2-1.3, 2.2-2.3 **H** 1.1-1.3

- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

$\varnothing d_1$ m7	タップ Taps		転造タップ Cold-forming taps							$\varnothing d_2$ h6	SteelDrill SD102-3xD	
	HA	HE	HA	HE	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE
9,35	MJ10x0,75	M10	89	47	35	40	1,6	10	TA201544.0935	TA501544.0935		
9,40	7/16-14	M10x1,25 (GAL)	89	47	35	40	1,6	10	TA201544.0940	TA501544.0940		
9,45		M10x1,25	89	47	35	40	1,6	10	TA201544.0945	TA501544.0945		
9,50	M11 / M10x0,5		89	47	35	40	1,6	10	TA201544.0950	TA501544.0950		
9,53			89	47	35	40	1,6	10	TA201544.0953	TA501544.0953		
9,60	MJ10x0,5 / MJ11x1,5	M10x1	89	47	35	40	1,6	10	TA201544.0960	TA501544.0960		
9,70		M10x0,75	89	47	35	40	1,6	10	TA201544.0970	TA501544.0970		
9,80		M10x0,5	89	47	35	40	1,7	10	TA201544.0980	TA501544.0980		
9,90	MJ11x1,25 / 7/16-20		89	47	35	40	1,7	10	TA201544.0990	TA501544.0990		
9,92			89	47	35	40	1,7	10	TA201544.0992	TA501544.0992		
10,00	M11x1		89	47	35	40	1,7	10	TA201544.1000	TA501544.1000		
10,10	MJ11x1		102	55	40	45	1,7	12	TA201544.1010	TA501544.1010		
10,20	M12 / M11x0,75	7/16-14 (GAL)	102	55	40	45	1,7	12	TA201544.1020	TA501544.1020		
10,25		7/16-14	102	55	40	45	1,7	12	TA201544.1025	TA501544.1025		
10,30		M11 (GAL)	102	55	40	45	1,7	12	TA201544.1030	TA501544.1030		
10,32			102	55	40	45	1,8	12	TA201544.1032	TA501544.1032		
10,35	MJ11x0,75	M11	102	55	40	45	1,8	12	TA201544.1035	TA501544.1035		
10,40			102	55	40	45	1,8	12	TA201544.1040	TA501544.1040		
10,50	M12x1,5	7/16-20 (GAL)	102	55	40	45	1,8	12	TA201544.1050	TA501544.1050		
10,55		M11x1 (GAL) / 7/16-20	102	55	40	45	1,8	12	TA201544.1055	TA501544.1055		
10,60	MJ12x1,5	M11x1	102	55	40	45	1,8	12	TA201544.1060	TA501544.1060		
10,70		M11x0,75	102	55	40	45	1,8	12	TA201544.1070	TA501544.1070		
10,72			102	55	40	45	1,8	12	TA201544.1072	TA501544.1072		
10,80	M12x1,25 / 1/2-13		102	55	40	45	1,8	12	TA201544.1080	TA501544.1080		
10,90	MJ12x1,25		102	55	40	45	1,8	12	TA201544.1090	TA501544.1090		
11,00	M12x1		102	55	40	45	1,9	12	TA201544.1100	TA501544.1100		
11,10	MJ12x1		102	55	40	45	1,9	12	TA201544.1110	TA501544.1110		
11,11			102	55	40	45	1,9	12	TA201544.1111	TA501544.1111		
11,20	M12x0,75	M12 (GAL)	102	55	40	45	1,9	12	TA201544.1120	TA501544.1120		
11,25		M12	102	55	40	45	1,9	12	TA201544.1125	TA501544.1125		
11,30		M12x1,5 (GAL)	102	55	40	45	1,9	12	TA201544.1130	TA501544.1130		
11,35		M12x1,5	102	55	40	45	1,9	12	TA201544.1135	TA501544.1135		
11,40		M12x1,25 (GAL)	102	55	40	45	1,9	12	TA201544.1140	TA501544.1140		
11,45		M12x1,25	102	55	40	45	1,9	12	TA201544.1145	TA501544.1145		
11,50	1/2-20		102	55	40	45	2,0	12	TA201544.1150	TA501544.1150		
11,51			102	55	40	45	2,0	12	TA201544.1151	TA501544.1151		
11,60		M12x1	102	55	40	45	2,0	12	TA201544.1160	TA501544.1160		
11,70		M12x0,75	102	55	40	45	2,0	12	TA201544.1170	TA501544.1170		
11,80	G1/4	1/2-13	102	55	40	45	2,0	12	TA201544.1180	TA501544.1180		
11,90			102	55	40	45	2,0	12	TA201544.1190	TA501544.1190		
11,91			102	55	40	45	2,0	12	TA201544.1191	TA501544.1191		
12,00	M14		102	55	40	45	2,0	12	TA201544.1200	TA501544.1200		
12,10	MJ13x1	1/2-20 (GAL)	107	60	43	45	2,1	14	TA201544.1210	TA501544.1210		
12,15		1/2-20	107	60	43	45	2,1	14	TA201544.1215	TA501544.1215		
12,20	9/16-12		107	60	43	45	2,1	14	TA201544.1220	TA501544.1220		
12,30			107	60	43	45	2,1	14	TA201544.1230	TA501544.1230		
12,50	M14x1,5	G1/4 (GAL)	107	60	43	45	2,1	14	TA201544.1250	TA501544.1250		
12,55		M13x1 (GAL) / G1/4	107	60	43	45	2,1	14	TA201544.1255	TA501544.1255		
12,60	MJ14x1,5	M13x1	107	60	43	45	2,1	14	TA201544.1260	TA501544.1260		
12,70		M13x0,75	107	60	43	45	2,2	14	TA201544.1270	TA501544.1270		
12,80	M14x1,25		107	60	43	45	2,2	14	TA201544.1280	TA501544.1280		
12,90	MJ14x1,25 / 9/16-18		107	60	43	45	2,2	14	TA201544.1290	TA501544.1290		

$\varnothing$  13,00 mm -  $\varnothing$  20,00 mm

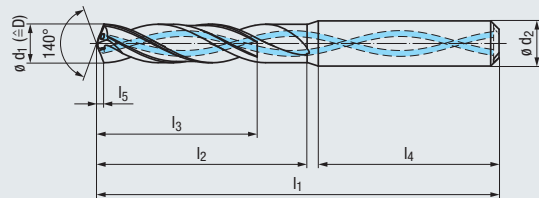


- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

**SteelDrill-SD102**

鋼の加工に  
For the machining of steel

**3 x D** ショート  
Short design



**超硬** **ALTiN**

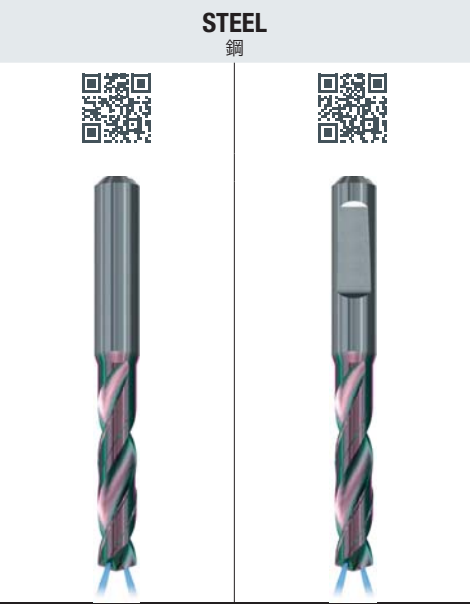
**DIN 6537 K** **R30**

**Z2** **4FF**

**140°** **IT9-IT10**

**DIN 6535**

HA  
HE



ドリル深さ  
Drill depth

アプリケーション - 被削材  
Applications - material ▶▶ 14

**3 x D**

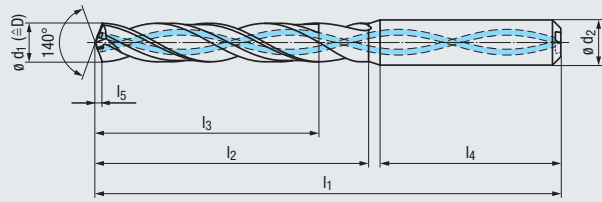
**P 1.1-5.1** **K 1.1-4.2**  
**S 1.2-1.3, 2.2-2.3** **H 1.1-1.3**

$\phi d_1$ m7	タップ Taps		転造タップ Cold-forming taps							$\phi d_2$ h6	SteelDrill SD102-3xD		SteelDrill SD102-3xD	
	HA	HE	HA	HE	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE	HA	HE
13,00	M14x1				107	60	43	45	2,2	14	TA201544.1300	TA501544.1300		
13,10	MJ14x1		M14		107	60	43	45	2,2	14	TA201544.1310	TA501544.1310		
13,20	M14x0,75				107	60	43	45	2,2	14	TA201544.1320	TA501544.1320		
13,30			9/16-12		107	60	43	45	2,3	14	TA201544.1330	TA501544.1330		
13,35			M14x1,5		107	60	43	45	2,3	14	TA201544.1335	TA501544.1335		
13,45			M14x1,25		107	60	43	45	2,3	14	TA201544.1345	TA501544.1345		
13,49					107	60	43	45	2,3	14	TA201544.1349	TA501544.1349		
13,50	5/8-11				107	60	43	45	2,3	14	TA201544.1350	TA501544.1350		
13,60	MJ15x1,5		M14x1 / 9/16-18 (GAL)		107	60	43	45	2,3	14	TA201544.1360	TA501544.1360		
13,65			9/16-18		107	60	43	45	2,3	14	TA201544.1365	TA501544.1365		
13,70			M14x0,75		107	60	43	45	2,3	14	TA201544.1370	TA501544.1370		
13,80					107	60	43	45	2,3	14	TA201544.1380	TA501544.1380		
13,89					107	60	43	45	2,4	14	TA201544.1389	TA501544.1389		
14,00	M16 / M15x1				107	60	43	45	2,4	14	TA201544.1400	TA501544.1400		
14,10	MJ15x1				115	65	45	48	2,4	16	TA201544.1410	TA501544.1410		
14,20	M15x0,75				115	65	45	48	2,4	16	TA201544.1420	TA501544.1420		
14,29					115	65	45	48	2,4	16	TA201544.1429	TA501544.1429		
14,30					115	65	45	48	2,4	16	TA201544.1430	TA501544.1430		
14,40					115	65	45	48	2,4	16	TA201544.1440	TA501544.1440		
14,50	M16x1,5 / 5/8-18				115	65	45	48	2,5	16	TA201544.1450	TA501544.1450		
14,60	MJ16x1,5		M15x1		115	65	45	48	2,5	16	TA201544.1460	TA501544.1460		
14,68					115	65	45	48	2,5	16	TA201544.1468	TA501544.1468		
14,70			M15x0,75		115	65	45	48	2,5	16	TA201544.1470	TA501544.1470		
14,80			5/8-11		115	65	45	48	2,5	16	TA201544.1480	TA501544.1480		
15,00	M16x1				115	65	45	48	2,5	16	TA201544.1500	TA501544.1500		
15,08					115	65	45	48	2,6	16	TA201544.1508	TA501544.1508		
15,10	MJ16x1		M16		115	65	45	48	2,6	16	TA201544.1510	TA501544.1510		
15,20	M16x0,75		5/8-18 (GAL)		115	65	45	48	2,6	16	TA201544.1520	TA501544.1520		
15,25	G3/8		5/8-18		115	65	45	48	2,6	16	TA201544.1525	TA501544.1525		
15,35			M16x1,5		115	65	45	48	2,6	16	TA201544.1535	TA501544.1535		
15,50	M18				115	65	45	48	2,6	16	TA201544.1550	TA501544.1550		
15,60			M16x1		115	65	45	48	2,6	16	TA201544.1560	TA501544.1560		
15,80	MJ18x2,5				115	65	45	48	2,7	16	TA201544.1580	TA501544.1580		
15,88					115	65	45	48	2,7	16	TA201544.1588	TA501544.1588		
16,00	M18x2				115	65	45	48	2,7	16	TA201544.1600	TA501544.1600		
16,27					123	73	51	48	2,8	18	TA201544.1627	TA501544.1627		
16,50	M18x1,5 / 3/4-10				123	73	51	48	2,8	18	TA201544.1650	TA501544.1650		
16,67					123	73	51	48	2,8	18	TA201544.1667	TA501544.1667		
17,00	M18x1				123	73	51	48	2,9	18	TA201544.1700	TA501544.1700		
17,46					123	73	51	48	3,0	18	TA201544.1746	TA501544.1746		
17,50	M20 / 3/4-16				123	73	51	48	3,0	18	TA201544.1750	TA501544.1750		
17,60			M18x1		123	73	51	48	3,0	18	TA201544.1760	TA501544.1760		
18,00	M20x2				123	73	51	48	3,1	18	TA201544.1800	TA501544.1800		
18,50	M20x1,5				131	79	55	50	3,1	20	TA201544.1850	TA501544.1850		
18,85			M20		131	79	55	50	3,2	20	TA201544.1885	TA501544.1885		
19,00	M20x1 / G1/2				131	79	55	50	3,2	20	TA201544.1900	TA501544.1900		
19,05					131	79	55	50	3,2	20	TA201544.1905	TA501544.1905		
19,35			M20x1,5		131	79	55	50	3,3	20	TA201544.1935	TA501544.1935		
19,50	M22 / 7/8-9				131	79	55	50	3,3	20	TA201544.1950	TA501544.1950		
19,60			M20x1		131	79	55	50	3,3	20	TA201544.1960	TA501544.1960		
20,00	M22x2				131	79	55	50	3,4	20	TA201544.2000	TA501544.2000		

**SteelDrill-SD102**

鋼の加工に  
For the machining of steel

**5xD** ロング  
Long design



**超硬** **ALTIN**

**DIN 6537 L** **R30**

**Z2** **4FF**

**140°** **IT9-IT10**

**DIN 6535**

HA  
HE



- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- G
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

ドリル深さ  
Drill depth

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

**5 x D**

<b>P</b> 1.1-5.1	<b>K</b> 1.1-4.2
<b>S</b> 1.2-1.3, 2.2-2.3	<b>H</b> 1.1-1.3

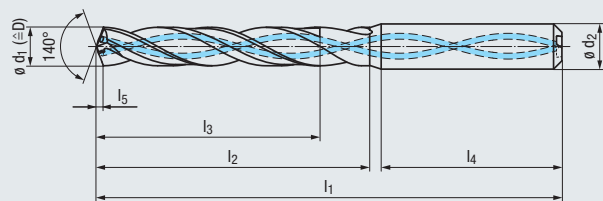
ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	SteelDrill SD102-5xD	SteelDrill SD102-5xD
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE
3,00	M3,5x0,5 / MJ3,5x0,6		66	28	23	36	0,5	6	TA211544.0300	TA511544.0300
3,10			66	28	23	36	0,5	6	TA211544.0310	TA511544.0310
3,15	M3,5x0,35	#6-32	66	28	23	36	0,5	6	TA211544.0315	TA511544.0315
3,18			66	28	23	36	0,5	6	TA211544.0318	TA511544.0318
3,20	MJ3,5x0,35		66	28	23	36	0,5	6	TA211544.0320	TA511544.0320
3,22		#6-40	66	28	23	36	0,5	6	TA211544.0322	TA511544.0322
3,25		M3,5	66	28	23	36	0,6	6	TA211544.0325	TA511544.0325
3,30	M4	M3,5x0,5	66	28	23	36	0,6	6	TA211544.0330	TA511544.0330
3,35			66	28	23	36	0,6	6	TA211544.0335	TA511544.0335
3,38		M3,5x0,35	66	28	23	36	0,6	6	TA211544.0338	TA511544.0338
3,40	MJ4x0,7		66	28	23	36	0,6	6	TA211544.0340	TA511544.0340
3,50	M4x0,5 / #8-32 / #8-36		66	28	23	36	0,6	6	TA211544.0350	TA511544.0350
3,55			66	28	23	36	0,6	6	TA211544.0355	TA511544.0355
3,57			66	28	23	36	0,6	6	TA211544.0357	TA511544.0357
3,60	MJ4x0,5		66	28	23	36	0,6	6	TA211544.0360	TA511544.0360
3,65	M4x0,35		66	28	23	36	0,6	6	TA211544.0365	TA511544.0365
3,70	M4,5	M4	66	28	23	36	0,6	6	TA211544.0370	TA511544.0370
3,80		M4x0,5 / #8-32	74	36	29	36	0,6	6	TA211544.0380	TA511544.0380
3,85		#8-36	74	36	29	36	0,7	6	TA211544.0385	TA511544.0385
3,88		M4x0,35	74	36	29	36	0,7	6	TA211544.0388	TA511544.0388
3,90	MJ4,5x0,75 / #10-24		74	36	29	36	0,7	6	TA211544.0390	TA511544.0390
3,97			74	36	29	36	0,7	6	TA211544.0397	TA511544.0397
4,00			74	36	29	36	0,7	6	TA211544.0400	TA511544.0400
4,04			74	36	29	36	0,7	6	TA211544.0404	TA511544.0404
4,10	MJ4,5x0,5 / #10-32		74	36	29	36	0,7	6	TA211544.0410	TA511544.0410
4,15	M5x0,9		74	36	29	36	0,7	6	TA211544.0415	TA511544.0415
4,20	M5 / M5x0,75	M4,5	74	36	29	36	0,7	6	TA211544.0420	TA511544.0420
4,30	MJ5x0,8	M4,5x0,5 / #10-24 (GAL)	74	36	29	36	0,7	6	TA211544.0430	TA511544.0430
4,35		#10-24	74	36	29	36	0,7	6	TA211544.0435	TA511544.0435
4,37			74	36	29	36	0,7	6	TA211544.0437	TA511544.0437
4,40			74	36	29	36	0,7	6	TA211544.0440	TA511544.0440
4,45		#10-32	74	36	29	36	0,8	6	TA211544.0445	TA511544.0445
4,50	M5x0,5 / #12-24		74	36	29	36	0,8	6	TA211544.0450	TA511544.0450
4,60	M5,5 / MJ5x0,5 / #12-28		74	36	29	36	0,8	6	TA211544.0460	TA511544.0460
4,65		M5	74	36	29	36	0,8	6	TA211544.0465	TA511544.0465
4,70		M5x0,75	74	36	29	36	0,8	6	TA211544.0470	TA511544.0470
4,76			82	44	35	36	0,8	6	TA211544.0476	TA511544.0476
4,80		M5x0,5	82	44	35	36	0,8	6	TA211544.0480	TA511544.0480
4,90			82	44	35	36	0,8	6	TA211544.0490	TA511544.0490
5,00	M6	#12-24	82	44	35	36	0,8	6	TA211544.0500	TA511544.0500
5,10	MJ6x1 / 1/4-20	M5,5 / #12-28	82	44	35	36	0,9	6	TA211544.0510	TA511544.0510
5,11			82	44	35	36	0,9	6	TA211544.0511	TA511544.0511
5,16			82	44	35	36	0,9	6	TA211544.0516	TA511544.0516
5,20	M6x0,75		82	44	35	36	0,9	6	TA211544.0520	TA511544.0520
5,25			82	44	35	36	0,9	6	TA211544.0525	TA511544.0525
5,30		M5,5x0,5	82	44	35	36	0,9	6	TA211544.0530	TA511544.0530
5,40			82	44	35	36	0,9	6	TA211544.0540	TA511544.0540
5,41			82	44	35	36	0,9	6	TA211544.0541	TA511544.0541
5,50	M6x0,5 / 1/4-28		82	44	35	36	0,9	6	TA211544.0550	TA511544.0550

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

## SteelDrill-SD102

鋼の加工に  
For the machining of steel

**5 x D** ロング  
Long design



**超硬**    **ALTIN**

**DIN 6537 L**    **R30**

**Z2**    **4FF**

**140°**    **IT9-IT10**

**DIN 6535**

HA  
HE



ドリル深さ  
Drill depth

アプリケーション - 被削材    14  
Applications - material

**5 x D**

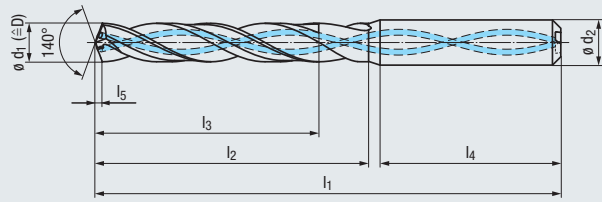
**P** 1.1-5.1    **K** 1.1-4.2  
**S** 1.2-1.3, 2.2-2.3    **H** 1.1-1.3

$\emptyset d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\emptyset d_2$ h6	SteelDrill SD102-5xD	SteelDrill SD102-5xD
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE
5,55		M6 (GAL)	82	44	35	36	0,9	6	TA211544.0555	TA511544.0555
5,56			82	44	35	36	0,9	6	TA211544.0556	TA511544.0556
5,60	MJ6x0,5	M6	82	44	35	36	1,0	6	TA211544.0560	TA511544.0560
5,70		M6x0,75 / 1/4-20 (GAL)	82	44	35	36	1,0	6	TA211544.0570	TA511544.0570
5,75		1/4-20	82	44	35	36	1,0	6	TA211544.0575	TA511544.0575
5,80		M6x0,5	82	44	35	36	1,0	6	TA211544.0580	TA511544.0580
5,90			82	44	35	36	1,0	6	TA211544.0590	TA511544.0590
5,95		1/4-28	82	44	35	36	1,0	6	TA211544.0595	TA511544.0595
6,00	M7		82	44	35	36	1,0	6	TA211544.0600	TA511544.0600
6,10	MJ7x1		91	53	43	36	1,0	8	TA211544.0610	TA511544.0610
6,20	M7x0,75		91	53	43	36	1,1	8	TA211544.0620	TA511544.0620
6,30			91	53	43	36	1,1	8	TA211544.0630	TA511544.0630
6,35	MJ7x0,75		91	53	43	36	1,1	8	TA211544.0635	TA511544.0635
6,40			91	53	43	36	1,1	8	TA211544.0640	TA511544.0640
6,50	M7x0,5		91	53	43	36	1,1	8	TA211544.0650	TA511544.0650
6,53			91	53	43	36	1,1	8	TA211544.0653	TA511544.0653
6,60	5/16-18	M7	91	53	43	36	1,1	8	TA211544.0660	TA511544.0660
6,70		M7x0,75	91	53	43	36	1,1	8	TA211544.0670	TA511544.0670
6,75			91	53	43	36	1,1	8	TA211544.0675	TA511544.0675
6,80	M8 / G1/16	M7x0,5	91	53	43	36	1,2	8	TA211544.0680	TA511544.0680
6,90	MJ8x1,25 / 5/16-24		91	53	43	36	1,2	8	TA211544.0690	TA511544.0690
7,00	M8x1		91	53	43	36	1,2	8	TA211544.0700	TA511544.0700
7,10	MJ8x1		91	53	43	36	1,2	8	TA211544.0710	TA511544.0710
7,15			91	53	43	36	1,2	8	TA211544.0715	TA511544.0715
7,20	M8x0,75		91	53	43	36	1,2	8	TA211544.0720	TA511544.0720
7,25		5/16-18 (GAL) / G1/16	91	53	43	36	1,2	8	TA211544.0725	TA511544.0725
7,30		5/16-18	91	53	43	36	1,2	8	TA211544.0730	TA511544.0730
7,40		M8 (GAL) / 5/16-24 (GAL)	91	53	43	36	1,3	8	TA211544.0740	TA511544.0740
7,45		M8 / 5/16-24	91	53	43	36	1,3	8	TA211544.0745	TA511544.0745
7,50	M8x0,5		91	53	43	36	1,3	8	TA211544.0750	TA511544.0750
7,54			91	53	43	36	1,3	8	TA211544.0754	TA511544.0754
7,60		M8x1	91	53	43	36	1,3	8	TA211544.0760	TA511544.0760
7,70		M8x0,75	91	53	43	36	1,3	8	TA211544.0770	TA511544.0770
7,80	M9	M8x0,5	91	53	43	36	1,3	8	TA211544.0780	TA511544.0780
7,90	MJ9x1,25		91	53	43	36	1,3	8	TA211544.0790	TA511544.0790
7,94			91	53	43	36	1,3	8	TA211544.0794	TA511544.0794
8,00	M9x1 / 3/8-16		91	53	43	36	1,4	8	TA211544.0800	TA511544.0800
8,10	MJ9x1		103	61	49	40	1,4	10	TA211544.0810	TA511544.0810
8,20	M9x0,75		103	61	49	40	1,4	10	TA211544.0820	TA511544.0820
8,30			103	61	49	40	1,4	10	TA211544.0830	TA511544.0830
8,33			103	61	49	40	1,4	10	TA211544.0833	TA511544.0833
8,40		M9 (GAL)	103	61	49	40	1,4	10	TA211544.0840	TA511544.0840
8,45		M9	103	61	49	40	1,4	10	TA211544.0845	TA511544.0845
8,50	M10 / M9x0,5 / 3/8-24		103	61	49	40	1,4	10	TA211544.0850	TA511544.0850
8,60	MJ10x1,5	M9x1	103	61	49	40	1,5	10	TA211544.0860	TA511544.0860
8,70		M9x0,75	103	61	49	40	1,5	10	TA211544.0870	TA511544.0870
8,73			103	61	49	40	1,5	10	TA211544.0873	TA511544.0873
8,80	M10x1,25 / G1/8	M9x0,5 / 3/8-16	103	61	49	40	1,5	10	TA211544.0880	TA511544.0880
8,90	MJ10x1,25		103	61	49	40	1,5	10	TA211544.0890	TA511544.0890

**SteelDrill-SD102**

鋼の加工に  
For the machining of steel

**5xD** ロング  
Long design



**超硬**     **ALTiN**

**DIN 6537 L**     **R30**

**Z2**     **4FF**

**140°**     **IT9-IT10**

**DIN 6535**

HA  
HE



- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- G
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

ドリル深さ  
Drill depth

アプリケーション - 被削材     14  
Applications - material

**5 x D**

**P 1.1-5.1**     **K 1.1-4.2**

**S 1.2-1.3, 2.2-2.3**     **H 1.1-1.3**

ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	SteelDrill SD102-5xD	SteelDrill SD102-5xD
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE
9,00	M10x1	3/8-24 (GAL)	103	61	49	40	1,5	10	TA211544.0900	TA511544.0900
9,05		3/8-24	103	61	49	40	1,5	10	TA211544.0905	TA511544.0905
9,10	MJ10x1		103	61	49	40	1,5	10	TA211544.0910	TA511544.0910
9,13			103	61	49	40	1,5	10	TA211544.0913	TA511544.0913
9,20	M10x0,75		103	61	49	40	1,6	10	TA211544.0920	TA511544.0920
9,30		M10 (GAL)	103	61	49	40	1,6	10	TA211544.0930	TA511544.0930
9,35	MJ10x0,75	M10	103	61	49	40	1,6	10	TA211544.0935	TA511544.0935
9,40	7/16-14	M10x1,25 (GAL)	103	61	49	40	1,6	10	TA211544.0940	TA511544.0940
9,45		M10x1,25	103	61	49	40	1,6	10	TA211544.0945	TA511544.0945
9,50	M11 / M10x0,5		103	61	49	40	1,6	10	TA211544.0950	TA511544.0950
9,53			103	61	49	40	1,6	10	TA211544.0953	TA511544.0953
9,60	MJ10x0,5 / MJ11x1,5	M10x1	103	61	49	40	1,6	10	TA211544.0960	TA511544.0960
9,70		M10x0,75	103	61	49	40	1,6	10	TA211544.0970	TA511544.0970
9,80		M10x0,5	103	61	49	40	1,7	10	TA211544.0980	TA511544.0980
9,90	MJ11x1,25 / 7/16-20		103	61	49	40	1,7	10	TA211544.0990	TA511544.0990
9,92			103	61	49	40	1,7	10	TA211544.0992	TA511544.0992
10,00	M11x1		103	61	49	40	1,7	10	TA211544.1000	TA511544.1000
10,10	MJ11x1		118	71	56	45	1,7	12	TA211544.1010	TA511544.1010
10,20	M12 / M11x0,75	7/16-14 (GAL)	118	71	56	45	1,7	12	TA211544.1020	TA511544.1020
10,25		7/16-14	118	71	56	45	1,7	12	TA211544.1025	TA511544.1025
10,30		M11 (GAL)	118	71	56	45	1,7	12	TA211544.1030	TA511544.1030
10,32			118	71	56	45	1,8	12	TA211544.1032	TA511544.1032
10,35	MJ11x0,75	M11	118	71	56	45	1,8	12	TA211544.1035	TA511544.1035
10,40			118	71	56	45	1,8	12	TA211544.1040	TA511544.1040
10,50	M12x1,5	7/16-20 (GAL)	118	71	56	45	1,8	12	TA211544.1050	TA511544.1050
10,55		M11x1 (GAL) / 7/16-20	118	71	56	45	1,8	12	TA211544.1055	TA511544.1055
10,60	MJ12x1,5	M11x1	118	71	56	45	1,8	12	TA211544.1060	TA511544.1060
10,70		M11x0,75	118	71	56	45	1,8	12	TA211544.1070	TA511544.1070
10,72			118	71	56	45	1,8	12	TA211544.1072	TA511544.1072
10,80	M12x1,25 / 1/2-13		118	71	56	45	1,8	12	TA211544.1080	TA511544.1080
10,90	MJ12x1,25		118	71	56	45	1,8	12	TA211544.1090	TA511544.1090
11,00	M12x1		118	71	56	45	1,9	12	TA211544.1100	TA511544.1100
11,10	MJ12x1		118	71	56	45	1,9	12	TA211544.1110	TA511544.1110
11,11			118	71	56	45	1,9	12	TA211544.1111	TA511544.1111
11,20	M12x0,75	M12 (GAL)	118	71	56	45	1,9	12	TA211544.1120	TA511544.1120
11,25		M12	118	71	56	45	1,9	12	TA211544.1125	TA511544.1125
11,30		M12x1,5 (GAL)	118	71	56	45	1,9	12	TA211544.1130	TA511544.1130
11,35		M12x1,5	118	71	56	45	1,9	12	TA211544.1135	TA511544.1135
11,40		M12x1,25 (GAL)	118	71	56	45	1,9	12	TA211544.1140	TA511544.1140
11,45		M12x1,25	118	71	56	45	1,9	12	TA211544.1145	TA511544.1145
11,50	1/2-20		118	71	56	45	2,0	12	TA211544.1150	TA511544.1150
11,51			118	71	56	45	2,0	12	TA211544.1151	TA511544.1151
11,60		M12x1	118	71	56	45	2,0	12	TA211544.1160	TA511544.1160
11,70		M12x0,75	118	71	56	45	2,0	12	TA211544.1170	TA511544.1170
11,80	G1/4	1/2-13	118	71	56	45	2,0	12	TA211544.1180	TA511544.1180
11,90			118	71	56	45	2,0	12	TA211544.1190	TA511544.1190
11,91			118	71	56	45	2,0	12	TA211544.1191	TA511544.1191
12,00	M14		118	71	56	45	2,0	12	TA211544.1200	TA511544.1200
12,10	MJ13x1	1/2-20 (GAL)	124	77	60	45	2,1	14	TA211544.1210	TA511544.1210

ø 12,15 mm - ø 20,00 mm

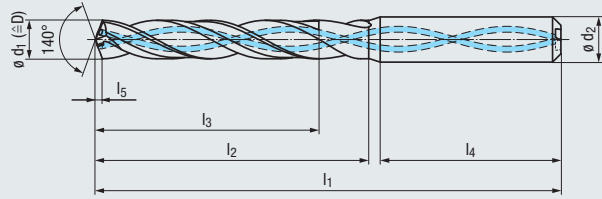


- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

**SteelDrill-SD102**

鋼の加工に  
For the machining of steel

**5 x D** ロング  
Long design



**超硬**    **ALTiN**

**DIN 6537 L**    **R30**

**Z2**    **4FF**

**140°**    **IT9-IT10**

**DIN 6535**

HA  
HE

**STEEL**  
鋼



ドリル深さ  
Drill depth

アプリケーション – 被削材    ▶▶ 14  
Applications – material

**5 x D**

**P 1.1-5.1**    **K 1.1-4.2**  
**S 1.2-1.3, 2.2-2.3**    **H 1.1-1.3**

ø d1 m7	タップ Taps	転造タップ Cold-forming taps						ø d2 h6	SteelDrill SD102-5xD	SteelDrill SD102-5xD
			l1	l2	l3	l4	l5		HA	HE
12,15		1/2-20	124	77	60	45	2,1	14	TA211544.1215	TA511544.1215
12,20	9/16-12		124	77	60	45	2,1	14	TA211544.1220	TA511544.1220
12,30			124	77	60	45	2,1	14	TA211544.1230	TA511544.1230
12,50	M14x1,5	G1/4 (GAL)	124	77	60	45	2,1	14	TA211544.1250	TA511544.1250
12,55		M13x1 (GAL) / G1/4	124	77	60	45	2,1	14	TA211544.1255	TA511544.1255
12,60	MJ14x1,5	M13x1	124	77	60	45	2,1	14	TA211544.1260	TA511544.1260
12,70		M13x0,75	124	77	60	45	2,2	14	TA211544.1270	TA511544.1270
12,80	M14x1,25		124	77	60	45	2,2	14	TA211544.1280	TA511544.1280
12,90	MJ14x1,25 / 9/16-18		124	77	60	45	2,2	14	TA211544.1290	TA511544.1290
13,00	M14x1		124	77	60	45	2,2	14	TA211544.1300	TA511544.1300
13,10	MJ14x1	M14	124	77	60	45	2,2	14	TA211544.1310	TA511544.1310
13,20	M14x0,75		124	77	60	45	2,2	14	TA211544.1320	TA511544.1320
13,30		9/16-12	124	77	60	45	2,3	14	TA211544.1330	TA511544.1330
13,35		M14x1,5	124	77	60	45	2,3	14	TA211544.1335	TA511544.1335
13,45		M14x1,25	124	77	60	45	2,3	14	TA211544.1345	TA511544.1345
13,49			124	77	60	45	2,3	14	TA211544.1349	TA511544.1349
13,50	5/8-11		124	77	60	45	2,3	14	TA211544.1350	TA511544.1350
13,60	MJ15x1,5	M14x1 / 9/16-18 (GAL)	124	77	60	45	2,3	14	TA211544.1360	TA511544.1360
13,65		9/16-18	124	77	60	45	2,3	14	TA211544.1365	TA511544.1365
13,70		M14x0,75	124	77	60	45	2,3	14	TA211544.1370	TA511544.1370
13,80			124	77	60	45	2,3	14	TA211544.1380	TA511544.1380
13,89			124	77	60	45	2,4	14	TA211544.1389	TA511544.1389
14,00	M16 / M15x1		124	77	60	45	2,4	14	TA211544.1400	TA511544.1400
14,10	MJ15x1		133	83	63	48	2,4	16	TA211544.1410	TA511544.1410
14,20	M15x0,75		133	83	63	48	2,4	16	TA211544.1420	TA511544.1420
14,29			133	83	63	48	2,4	16	TA211544.1429	TA511544.1429
14,30			133	83	63	48	2,4	16	TA211544.1430	TA511544.1430
14,40			133	83	63	48	2,4	16	TA211544.1440	TA511544.1440
14,50	M16x1,5 / 5/8-18		133	83	63	48	2,5	16	TA211544.1450	TA511544.1450
14,60	MJ16x1,5	M15x1	133	83	63	48	2,5	16	TA211544.1460	TA511544.1460
14,68			133	83	63	48	2,5	16	TA211544.1468	TA511544.1468
14,70		M15x0,75	133	83	63	48	2,5	16	TA211544.1470	TA511544.1470
14,80		5/8-11	133	83	63	48	2,5	16	TA211544.1480	TA511544.1480
15,00	M16x1		133	83	63	48	2,5	16	TA211544.1500	TA511544.1500
15,08			133	83	63	48	2,6	16	TA211544.1508	TA511544.1508
15,10	MJ16x1	M16	133	83	63	48	2,6	16	TA211544.1510	TA511544.1510
15,20	M16x0,75	5/8-18 (GAL)	133	83	63	48	2,6	16	TA211544.1520	TA511544.1520
15,25	G3/8	5/8-18	133	83	63	48	2,6	16	TA211544.1525	TA511544.1525
15,35		M16x1,5	133	83	63	48	2,6	16	TA211544.1535	TA511544.1535
15,50	M18		133	83	63	48	2,6	16	TA211544.1550	TA511544.1550
15,60		M16x1	133	83	63	48	2,6	16	TA211544.1560	TA511544.1560
15,80	MJ18x2,5		133	83	63	48	2,7	16	TA211544.1580	TA511544.1580
15,88			133	83	63	48	2,7	16	TA211544.1588	TA511544.1588
16,00	M18x2		133	83	63	48	2,7	16	TA211544.1600	TA511544.1600
16,27			143	93	71	48	2,8	18	TA211544.1627	TA511544.1627
16,50	M18x1,5 / 3/4-10		143	93	71	48	2,8	18	TA211544.1650	TA511544.1650
16,67			143	93	71	48	2,8	18	TA211544.1667	TA511544.1667
17,00	M18x1		143	93	71	48	2,9	18	TA211544.1700	TA511544.1700
17,46			143	93	71	48	3,0	18	TA211544.1746	TA511544.1746

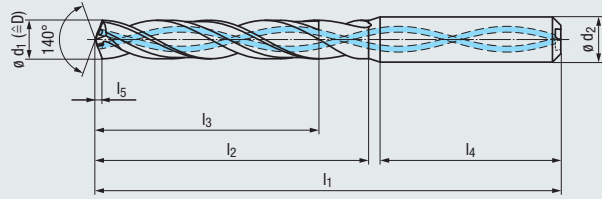
**SteelDrill-SD102**

鋼の加工に  
For the machining of steel

超硬	ALTIN
DIN 6537 L	R30
Z2	4FF
140°	IT9-IT10
DIN 6535	
HA	HE

STEEL  
鋼

**5 x D** ロング  
Long design



ドリル深さ  
Drill depth

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

**5 x D**

P 1.1-5.1	K 1.1-4.2
S 1.2-1.3, 2.2-2.3	H 1.1-1.3

∅ d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						∅ d <sub>2</sub> h6	SteelDrill SD102-5xD	SteelDrill SD102-5xD
	HA	HE	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE
17,50	M20 / 3/4-16		143	93	71	48	3,0	18	TA211544.1750	TA511544.1750
17,60		M18x1	143	93	71	48	3,0	18	TA211544.1760	TA511544.1760
18,00	M20x2		143	93	71	48	3,1	18	TA211544.1800	TA511544.1800
18,50	M20x1,5		153	101	77	50	3,1	20	TA211544.1850	TA511544.1850
18,85		M20	153	101	77	50	3,2	20	TA211544.1885	TA511544.1885
19,00	M20x1 / G1/2		153	101	77	50	3,2	20	TA211544.1900	TA511544.1900
19,05			153	101	77	50	3,2	20	TA211544.1905	TA511544.1905
19,35		M20x1,5	153	101	77	50	3,3	20	TA211544.1935	TA511544.1935
19,50	M22 / 7/8-9		153	101	77	50	3,3	20	TA211544.1950	TA511544.1950
19,60		M20x1	153	101	77	50	3,3	20	TA211544.1960	TA511544.1960
20,00	M22x2		153	101	77	50	3,4	20	TA211544.2000	TA511544.2000



ウィッスルノッチシャンク用  
ドリルホルダーは 66 - 67  
ページをご覧ください

Tool holders for straight shanks  
with inclined clamping flat,  
see page 66 - 67

- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D**
- 12 x D
- 2-3,5 x D

**EF-Drill-STEEL**

鋼の加工に  
For the machining of steel

超硬 TIALN

R30

Z2 4FF

140° IT9-IT11

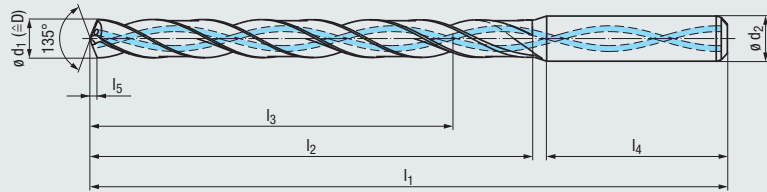
DIN 6535

HA

STEEL  
鋼



**8xD** エクストラロング  
Extra longong design



必要に応じてセンタリングを行ってください  
Preparatory centering with a centering drill (p.ex. NC SpotDrill) is recommended

ドリル深さ  
Drill depth

**8 x D**

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

P 1.1-5.1	K 1.1-4.2	N 1.1-2.8
S 1.2-1.3	S 2.2-2.3	H 1.1-1.3

ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	EF-Drill STEEL-8xD	HA
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>			
2,80		M3	70	30	24	36	0,6	6	TA223344.0280	
2,85	#6-32		70	30	24	36	0,6	6	TA223344.0285	
2,90	M3,5	#5-40	70	30	24	36	0,7	6	TA223344.0290	
3,00	M3,5x0,5 / MJ3,5x0,6		78	38	30	36	0,7	6	TA223344.0300	
3,10			78	38	30	36	0,7	6	TA223344.0310	
3,15	M3,5x0,35	#6-32	78	38	30	36	0,7	6	TA223344.0315	
3,20	MJ3,5x0,35		78	38	30	36	0,7	6	TA223344.0320	
3,25		M3,5	78	38	30	36	0,7	6	TA223344.0325	
3,30	M4	M3,5x0,5	78	38	30	36	0,7	6	TA223344.0330	
3,35			78	38	30	36	0,7	6	TA223344.0335	
3,38		M3,5x0,35	78	38	30	36	0,8	6	TA223344.0338	
3,40	MJ4x0,7		78	38	30	36	0,8	6	TA223344.0340	
3,50	M4x0,5 / #8-32 / #8-36		78	38	30	36	0,8	6	TA223344.0350	
3,55			78	38	30	36	0,8	6	TA223344.0355	
3,60	MJ4x0,5		78	38	30	36	0,8	6	TA223344.0360	
3,65	M4x0,35		78	38	30	36	0,8	6	TA223344.0365	
3,70	M4,5	M4	78	38	30	36	0,8	6	TA223344.0370	
3,80		M4x0,5 / #8-32	88	48	38	36	0,8	6	TA223344.0380	
3,88		M4x0,35	88	48	38	36	0,9	6	TA223344.0388	
3,90	MJ4,5x0,75 / #10-24		88	48	38	36	0,9	6	TA223344.0390	
4,00			88	48	38	36	0,9	6	TA223344.0400	
4,10	MJ4,5x0,5 / #10-32		88	48	38	36	0,9	6	TA223344.0410	
4,15	M5x0,9		88	48	38	36	0,9	6	TA223344.0415	
4,20	M5 / M5x0,75	M4,5	88	48	38	36	0,9	6	TA223344.0420	
4,30	MJ5x0,8	M4,5x0,5 / #10-24 (GAL)	88	48	38	36	0,9	6	TA223344.0430	
4,35		#10-24	88	48	38	36	1,0	6	TA223344.0435	
4,40			88	48	38	36	1,0	6	TA223344.0440	
4,45		#10-32	88	48	38	36	1,0	6	TA223344.0445	
4,50	M5x0,5 / #12-24		88	48	38	36	1,0	6	TA223344.0450	
4,60	M5,5 / MJ5x0,5 / #12-28		88	48	38	36	1,0	6	TA223344.0460	
4,65		M5	88	48	38	36	1,0	6	TA223344.0465	
4,70		M5x0,75	88	48	38	36	1,0	6	TA223344.0470	
4,80		M5x0,5	97	60	48	36	1,0	6	TA223344.0480	
4,90			97	60	48	36	1,1	6	TA223344.0490	
5,00	M6	#12-24	97	60	48	36	1,1	6	TA223344.0500	
5,10	MJ6x1 / 1/4-20	M5,5 / #12-28	97	60	48	36	1,1	6	TA223344.0510	
5,20	M6x0,75		97	60	48	36	1,1	6	TA223344.0520	
5,25			97	60	48	36	1,1	6	TA223344.0525	
5,30		M5,5x0,5	97	60	48	36	1,1	6	TA223344.0530	
5,40			97	60	48	36	1,2	6	TA223344.0540	
5,50	M6x0,5 / 1/4-28		97	60	48	36	1,2	6	TA223344.0550	
5,55		M6 (GAL)	97	60	48	36	1,2	6	TA223344.0555	



EF-Drill-STEEL

鋼の加工に  
For the machining of steel

超硬 TIALN

R30



Z2 4FF

140° IT9-IT11

DIN 6535

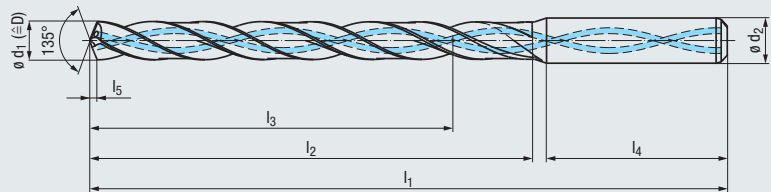
HA

STEEL 鋼

- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GU
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

8xD エクストラロング  
Extra longong design





必要に応じてセンタリングを行ってください  
Preparatory centering with a centering drill (p.ex. NC SpotDrill) is recommended

ドリル深さ  
Drill depth

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

8 x D

P 1.1-5.1	K 1.1-4.2	N 1.1-2.8
S 1.2-1.3	S 2.2-2.3	H 1.1-1.3

ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	ø d <sub>2</sub> h6	EF-Drill STEEL-8xD	HA
									TA	
5,60	MJ6x0,5	M6	97	60	48	36	1,2	6	TA223344.0560	
5,70		M6x0,75 / 1/4-20 (GAL)	97	60	48	36	1,2	6	TA223344.0570	
5,80		M6x0,5	97	60	48	36	1,3	6	TA223344.0580	
5,90			97	60	48	36	1,3	6	TA223344.0590	
6,00	M7		97	60	48	36	1,3	6	TA223344.0600	
6,10	MJ7x1		107	70	56	36	1,3	8	TA223344.0610	
6,20	M7x0,75		107	70	56	36	1,3	8	TA223344.0620	
6,30			107	70	56	36	1,4	8	TA223344.0630	
6,35	MJ7x0,75		107	70	56	36	1,4	8	TA223344.0635	
6,40			107	70	56	36	1,4	8	TA223344.0640	
6,50	M7x0,5		107	70	56	36	1,4	8	TA223344.0650	
6,60	5/16-18	M7	107	70	56	36	1,4	8	TA223344.0660	
6,70		M7x0,75	107	70	56	36	1,4	8	TA223344.0670	
6,80	M8 / G1/16	M7x0,5	107	70	56	36	1,5	8	TA223344.0680	
6,90	MJ8x1,25 / 5/16-24		107	70	56	36	1,5	8	TA223344.0690	
7,00	M8x1		107	70	56	36	1,5	8	TA223344.0700	
7,10	MJ8x1		117	80	64	36	1,5	8	TA223344.0710	
7,20	M8x0,75		117	80	64	36	1,5	8	TA223344.0720	
7,30		5/16-18	117	80	64	36	1,6	8	TA223344.0730	
7,40		M8 (GAL) / 5/16-24 (GAL)	117	80	64	36	1,6	8	TA223344.0740	
7,45		M8 / 5/16-24	117	80	64	36	1,6	8	TA223344.0745	
7,50	M8x0,5		117	80	64	36	1,6	8	TA223344.0750	
7,60		M8x1	117	80	64	36	1,6	8	TA223344.0760	
7,70		M8x0,75	117	80	64	36	1,6	8	TA223344.0770	
7,80	M9	M8x0,5	117	80	64	36	1,7	8	TA223344.0780	
7,90	MJ9x1,25		117	80	64	36	1,7	8	TA223344.0790	
8,00	M9x1 / 3/8-16		117	80	64	36	1,7	8	TA223344.0800	
8,10	MJ9x1		141	100	80	40	1,7	10	TA223344.0810	
8,20	M9x0,75		141	100	80	40	1,7	10	TA223344.0820	
8,30			141	100	80	40	1,8	10	TA223344.0830	
8,40		M9 (GAL)	141	100	80	40	1,8	10	TA223344.0840	
8,45		M9	141	100	80	40	1,8	10	TA223344.0845	
8,50	M10 / M9x0,5 / 3/8-24		141	100	80	40	1,8	10	TA223344.0850	
8,60	MJ10x1,5	M9x1	141	100	80	40	1,8	10	TA223344.0860	
8,70		M9x0,75	141	100	80	40	1,9	10	TA223344.0870	
8,80	M10x1,25 / G1/8	M9x0,5 / 3/8-16	141	100	80	40	1,9	10	TA223344.0880	
8,90	MJ10x1,25		141	100	80	40	1,9	10	TA223344.0890	
9,00	M10x1	3/8-24 (GAL)	141	100	80	40	1,9	10	TA223344.0900	
9,10	MJ10x1		141	100	80	40	1,9	10	TA223344.0910	
9,20	M10x0,75		141	100	80	40	2,0	10	TA223344.0920	
9,30		M10 (GAL)	141	100	80	40	2,0	10	TA223344.0930	
9,35	MJ10x0,75	M10	141	100	80	40	2,0	10	TA223344.0935	

ø 9,40 mm - ø 20,00 mm

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

## EF-Drill-STEEL

鋼の加工に  
For the machining of steel

超硬

TIALN

R30

Z2

4FF



135°



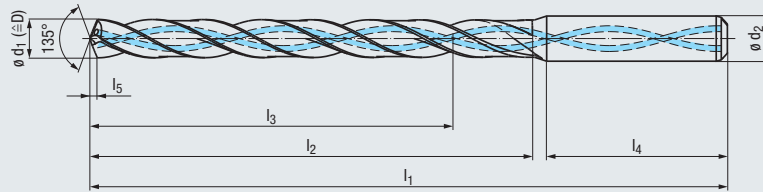
DIN 6535



STEEL  
鋼



## 8xD エクストラロング Extra longong design



必要に応じてセンタリングを行ってください  
Preparatory centering with a centering drill (p.ex. NC SpotDrill) is recommended

ドリル深さ  
Drill depth

## 8 x D

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

P	1.1-5.1	K	1.1-4.2	N	1.1-2.8
S	1.2-1.3	S	2.2-2.3	H	1.1-1.3

$\emptyset d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\emptyset d_2$ h6	EF-Drill STEEL-8xD	HA
	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$					
9,40	7/16-14	M10x1,25 (GAL)	141	100	80	40	2,0	10	TA223344.0940	
9,45		M10x1,25	141	100	80	40	2,0	10	TA223344.0945	
9,50	M11 / M10x0,5		141	100	80	40	2,0	10	TA223344.0950	
9,60	MJ10x0,5 / MJ11x1,5	M10x1	141	100	80	40	2,0	10	TA223344.0960	
9,70		M10x0,75	141	100	80	40	2,1	10	TA223344.0970	
9,80		M10x0,5	141	100	80	40	2,1	10	TA223344.0980	
9,90	MJ11x1,25 / 7/16-20		141	100	80	40	2,1	10	TA223344.0990	
10,00	M11x1		141	100	80	40	2,1	10	TA223344.1000	
10,10	MJ11x1		166	120	96	45	2,1	12	TA223344.1010	
10,20	M12 / M11x0,75	7/16-14 (GAL)	166	120	96	45	2,2	12	TA223344.1020	
10,30		M11 (GAL)	166	120	96	45	2,2	12	TA223344.1030	
10,35	MJ11x0,75	M11	166	120	96	45	2,2	12	TA223344.1035	
10,40			166	120	96	45	2,2	12	TA223344.1040	
10,50	M12x1,5	7/16-20 (GAL)	166	120	96	45	2,2	12	TA223344.1050	
10,60	MJ12x1,5	M11x1	166	120	96	45	2,2	12	TA223344.1060	
10,70		M11x0,75	166	120	96	45	2,3	12	TA223344.1070	
10,80	M12x1,25 / 1/2-13		166	120	96	45	2,3	12	TA223344.1080	
10,90	MJ12x1,25		166	120	96	45	2,3	12	TA223344.1090	
11,00	M12x1		166	120	96	45	2,3	12	TA223344.1100	
11,10	MJ12x1		166	120	96	45	2,3	12	TA223344.1110	
11,20	M12x0,75	M12 (GAL)	166	120	96	45	2,4	12	TA223344.1120	
11,25		M12	166	120	96	45	2,4	12	TA223344.1125	
11,30		M12x1,5 (GAL)	166	120	96	45	2,4	12	TA223344.1130	
11,35		M12x1,5	166	120	96	45	2,4	12	TA223344.1135	
11,40		M12x1,25 (GAL)	166	120	96	45	2,4	12	TA223344.1140	
11,45		M12x1,25	166	120	96	45	2,4	12	TA223344.1145	
11,50	1/2-20		166	120	96	45	2,4	12	TA223344.1150	
11,60		M12x1	166	120	96	45	2,5	12	TA223344.1160	
11,70		M12x0,75	166	120	96	45	2,5	12	TA223344.1170	
11,80	G1/4	1/2-13	166	120	96	45	2,5	12	TA223344.1180	
11,90			166	120	96	45	2,5	12	TA223344.1190	
12,00	M14		166	120	96	45	2,5	12	TA223344.1200	
12,20	9/16-12		186	140	112	45	2,6	14	TA223344.1220	
12,30			186	140	112	45	2,6	14	TA223344.1230	
12,50	M14x1,5	G1/4 (GAL)	186	140	112	45	2,6	14	TA223344.1250	
12,60	MJ14x1,5	M13x1	186	140	112	45	2,7	14	TA223344.1260	
12,70		M13x0,75	186	140	112	45	2,7	14	TA223344.1270	
12,80	M14x1,25		186	140	112	45	2,7	14	TA223344.1280	
12,90	MJ14x1,25 / 9/16-18		186	140	112	45	2,7	14	TA223344.1290	
13,00	M14x1		186	140	112	45	2,7	14	TA223344.1300	
13,10	MJ14x1	M14	186	140	112	45	2,8	14	TA223344.1310	
13,20	M14x0,75		186	140	112	45	2,8	14	TA223344.1320	

**EF-Drill-STEEL**

鋼の加工に  
For the machining of steel

**超硬** TIALN

**R30**



**Z2** **4FF**

**135°** **IT9-IT11**

**DIN 6535**

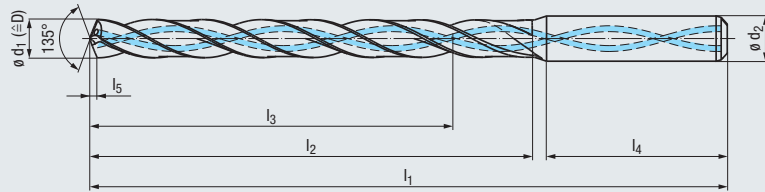
HA

**STEEL**  
鋼

- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GU
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D**
- 12 x D
- 2-3,5 x D

**8xD** エクストラロング  
Extra longong design





必要に応じてセンタリングを行ってください  
Preparatory centering with a centering drill (p.ex. NC SpotDrill) is recommended

ドリル深さ  
Drill depth

**8 x D**

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

<b>P</b> 1.1-5.1	<b>K</b> 1.1-4.2	<b>N</b> 1.1-2.8
<b>S</b> 1.2-1.3	<b>S</b> 2.2-2.3	<b>H</b> 1.1-1.3

ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	ø d <sub>2</sub> h6	EF-Drill STEEL-8xD	HA
										
13,30		9/16-12	186	140	112	45	2,8	14	TA223344.1330	
13,35		M14x1,5	186	140	112	45	2,8	14	TA223344.1335	
13,45		M14x1,25	186	140	112	45	2,8	14	TA223344.1345	
13,50	5/8-11		186	140	112	45	2,8	14	TA223344.1350	
13,60	MJ15x1,5	M14x1 / 9/16-18 (GAL)	186	140	112	45	2,9	14	TA223344.1360	
13,70		M14x0,75	186	140	112	45	2,9	14	TA223344.1370	
13,80			186	140	112	45	2,9	14	TA223344.1380	
14,00	M16 / M15x1		186	140	112	45	2,9	14	TA223344.1400	
14,10	MJ15x1		209	160	128	48	3,0	16	TA223344.1410	
14,30			209	160	128	48	3,0	16	TA223344.1430	
14,40			209	160	128	48	3,0	16	TA223344.1440	
14,50	M16x1,5 / 5/8-18		209	160	128	48	3,1	16	TA223344.1450	
14,60	MJ16x1,5	M15x1	209	160	128	48	3,1	16	TA223344.1460	
14,70		M15x0,75	209	160	128	48	3,1	16	TA223344.1470	
14,80		5/8-11	209	160	128	48	3,1	16	TA223344.1480	
15,00	M16x1		209	160	128	48	3,2	16	TA223344.1500	
15,10	MJ16x1	M16	209	160	128	48	3,2	16	TA223344.1510	
15,35		M16x1,5	209	160	128	48	3,2	16	TA223344.1535	
15,50	M18		209	160	128	48	3,3	16	TA223344.1550	
15,60		M16x1	209	160	128	48	3,3	16	TA223344.1560	
16,00	M18x2		209	160	128	48	3,4	16	TA223344.1600	
16,50	M18x1,5 / 3/4-10		229	180	144	48	3,5	18	TA223344.1650	
17,00	M18x1		229	180	144	48	3,6	18	TA223344.1700	
17,50	M20 / 3/4-16		229	180	144	48	3,7	18	TA223344.1750	
17,60		M18x1	229	180	144	48	3,7	18	TA223344.1760	
18,00	M20x2		229	180	144	48	3,8	18	TA223344.1800	
18,50	M20x1,5		251	200	160	50	3,9	20	TA223344.1850	
18,85		M20	251	200	160	50	4,0	20	TA223344.1885	
19,00	M20x1 / G1/2		251	200	160	50	4,0	20	TA223344.1900	
19,35		M20x1,5	251	200	160	50	4,1	20	TA223344.1935	
19,50	M22 / 7/8-9		251	200	160	50	4,1	20	TA223344.1950	
19,60		M20x1	251	200	160	50	4,1	20	TA223344.1960	
20,00	M22x2		251	200	160	50	4,2	20	TA223344.2000	

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

## SteelDrill-SD104

鋼の加工に  
For the machining of steel

超硬

TIALN

R30

Z2

4FF



135°



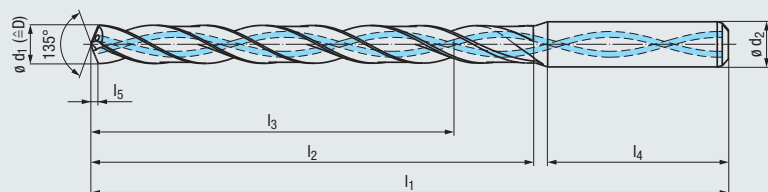
DIN 6535

HA

STEEL  
鋼



## 12xD エクストラロング Extra longong design



NC-スポットドリルによるセンタリングを推奨します  
Preparatory centering with a centering drill (p.ex. NC SpotDrill) is recommended

ドリル深さ  
Drill depth

### 12 x D

アプリケーション - 被削材  
Applications - material 14

P	1.1-4.1	M	1.1
K	1.1, 2.1-3.2	H	1.1

$\varnothing d_1$ k7	タップ Taps	転造タップ Cold-forming taps	$l_1$	$l_2$	$l_3$	$l_4$	$l_5$	$\varnothing d_2$ h6	SteelDrill SD104-12xD	HA
									TA233344.0300	
3,00	M3,5x0,5 / MJ3,5x0,6		92	54	48	36	0,6	6	TA233344.0300	
3,10			92	54	48	36	0,6	6	TA233344.0310	
3,18			92	54	48	36	0,6	6	TA233344.0318	
3,20	MJ3,5x0,35		92	54	48	36	0,6	6	TA233344.0320	
3,30	M4	M3,5x0,5	92	54	48	36	0,6	6	TA233344.0330	
3,40	MJ4x0,7		92	54	48	36	0,6	6	TA233344.0340	
3,50	M4x0,5 / #8-32 / #8-36		92	54	48	36	0,6	6	TA233344.0350	
3,57			92	54	48	36	0,7	6	TA233344.0357	
3,60	MJ4x0,5		92	54	48	36	0,7	6	TA233344.0360	
3,70	M4,5	M4	92	54	48	36	0,7	6	TA233344.0370	
3,80		M4x0,5 / #8-32	102	64	58	36	0,7	6	TA233344.0380	
3,90	MJ4,5x0,75 / #10-24		102	64	58	36	0,7	6	TA233344.0390	
3,97			102	64	58	36	0,7	6	TA233344.0397	
4,00			102	64	58	36	0,7	6	TA233344.0400	
4,04			102	64	58	36	0,7	6	TA233344.0404	
4,10	MJ4,5x0,5 / #10-32		102	64	58	36	0,8	6	TA233344.0410	
4,20	M5 / M5x0,75	M4,5	102	64	58	36	0,8	6	TA233344.0420	
4,30	MJ5x0,8	M4,5x0,5 / #10-24 (GAL)	102	64	58	36	0,8	6	TA233344.0430	
4,37			102	64	58	36	0,8	6	TA233344.0437	
4,40			102	64	58	36	0,8	6	TA233344.0440	
4,50	M5x0,5 / #12-24		102	64	58	36	0,8	6	TA233344.0450	
4,60	M5,5 / MJ5x0,5 / #12-28		102	64	58	36	0,8	6	TA233344.0460	
4,70		M5x0,75	102	64	58	36	0,9	6	TA233344.0470	
4,76			116	78	70	36	0,9	6	TA233344.0476	
4,80		M5x0,5	116	78	70	36	0,9	6	TA233344.0480	
5,00	M6	#12-24	116	78	70	36	0,9	6	TA233344.0500	
5,10	MJ6x1 / 1/4-20	M5,5 / #12-28	116	78	70	36	0,9	6	TA233344.0510	
5,11			116	78	70	36	0,9	6	TA233344.0511	
5,16			116	78	70	36	0,9	6	TA233344.0516	
5,20	M6x0,75		116	78	70	36	1,0	6	TA233344.0520	
5,40			116	78	70	36	1,0	6	TA233344.0540	
5,41			116	78	70	36	1,0	6	TA233344.0541	
5,50	M6x0,5 / 1/4-28		116	78	70	36	1,0	6	TA233344.0550	
5,56			116	78	70	36	1,0	6	TA233344.0556	
5,60	MJ6x0,5	M6	116	78	70	36	1,0	6	TA233344.0560	
5,80		M6x0,5	116	78	70	36	1,1	6	TA233344.0580	
5,90			116	78	70	36	1,1	6	TA233344.0590	
5,95		1/4-28	116	78	70	36	1,1	6	TA233344.0595	

**SteelDrill-SD104**

鋼の加工に  
For the machining of steel

**超硬** TIALN

**R30**



**Z2** **4FF**

**135°** **IT9-IT11**

**DIN 6535**

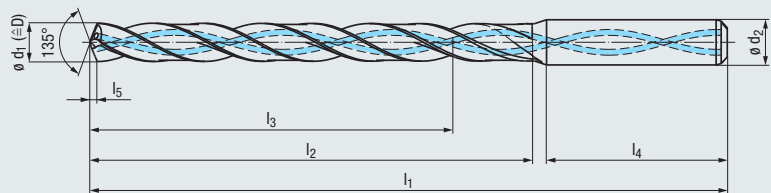
HA

**STEEL**  
鋼

- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GU
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D**
- 2-3,5 x D

**12xD** エクストラロング  
Extra longong design



NC-スポットドリルによるセンタリングを推奨します  
Preparatory centering with a centering drill (p.ex. NC SpotDrill) is recommended

ドリル深さ  
Drill depth

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

**12 x D**

**P 1.1-4.1** **M 1.1**

**K 1.1, 2.1-3.2** **H 1.1**

ø d <sub>1</sub> k7	タップ Taps	転造タップ Cold-forming taps	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	ø d <sub>2</sub> h6	SteelDrill SD104-12xD
									HA
6,00	M7		116	78	70	36	1,1	6	TA233344.0600
6,10	MJ7x1		146	108	94	36	1,1	8	TA233344.0610
6,20	M7x0,75		146	108	94	36	1,1	8	TA233344.0620
6,30			146	108	94	36	1,2	8	TA233344.0630
6,35	MJ7x0,75		146	108	94	36	1,2	8	TA233344.0635
6,50	M7x0,5		146	108	94	36	1,2	8	TA233344.0650
6,53			146	108	94	36	1,2	8	TA233344.0653
6,75			146	108	94	36	1,2	8	TA233344.0675
6,80	M8 / G1/16	M7x0,5	146	108	94	36	1,2	8	TA233344.0680
7,00	M8x1		146	108	94	36	1,3	8	TA233344.0700
7,15			146	108	94	36	1,3	8	TA233344.0715
7,20	M8x0,75		146	108	94	36	1,3	8	TA233344.0720
7,30		5/16-18	146	108	94	36	1,3	8	TA233344.0730
7,50	M8x0,5		146	108	94	36	1,4	8	TA233344.0750
7,54			146	108	94	36	1,4	8	TA233344.0754
7,80	M9	M8x0,5	146	108	94	36	1,4	8	TA233344.0780
7,90	MJ9x1,25		146	108	94	36	1,4	8	TA233344.0790
7,94			146	108	94	36	1,4	8	TA233344.0794
8,00	M9x1 / 3/8-16		146	108	94	36	1,5	8	TA233344.0800
8,10	MJ9x1		162	120	110	40	1,5	10	TA233344.0810
8,30			162	120	110	40	1,5	10	TA233344.0830
8,33			162	120	110	40	1,5	10	TA233344.0833
8,50	M10 / M9x0,5 / 3/8-24		162	120	110	40	1,6	10	TA233344.0850
8,60	MJ10x1,5	M9x1	162	120	110	40	1,6	10	TA233344.0860
8,70		M9x0,75	162	120	110	40	1,6	10	TA233344.0870
8,73			162	120	110	40	1,6	10	TA233344.0873
8,80	M10x1,25 / G1/8	M9x0,5 / 3/8-16	162	120	110	40	1,6	10	TA233344.0880
9,00	M10x1	3/8-24 (GAL)	162	120	110	40	1,6	10	TA233344.0900
9,10	MJ10x1		162	120	110	40	1,7	10	TA233344.0910
9,13			162	120	110	40	1,7	10	TA233344.0913
9,40	7/16-14	M10x1,25 (GAL)	162	120	110	40	1,7	10	TA233344.0940
9,50	M11 / M10x0,5		162	120	110	40	1,7	10	TA233344.0950
9,53			162	120	110	40	1,7	10	TA233344.0953
9,60	MJ10x0,5 / MJ11x1,5	M10x1	162	120	110	40	1,8	10	TA233344.0960
9,70		M10x0,75	162	120	110	40	1,8	10	TA233344.0970
9,80		M10x0,5	162	120	110	40	1,8	10	TA233344.0980
9,90	MJ11x1,25 / 7/16-20		162	120	110	40	1,8	10	TA233344.0990
9,92			162	120	110	40	1,8	10	TA233344.0992

ø 10,00 mm - ø 14,00 mm



- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

## SteelDrill-SD104

鋼の加工に  
For the machining of steel

超硬

TIALN

STEEL  
鋼

R30

Z2



4FF



140°



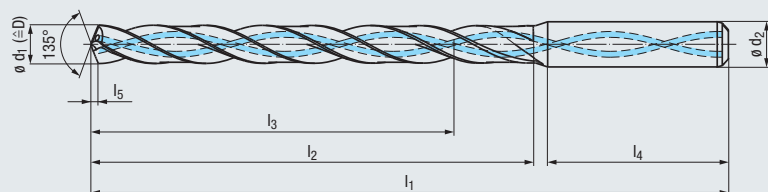
IT9-IT11

DIN 6535

HA



## 12 x D エクストラロング Extra longong design



NC-スポットドリルによるセンタリングを推奨します  
Preparatory centering with a centering drill (p.ex. NC SpotDrill) is recommended

ドリル深さ  
Drill depth

### 12 x D

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

P	1.1-4.1	M	1.1
K	1.1, 2.1-3.2	H	1.1

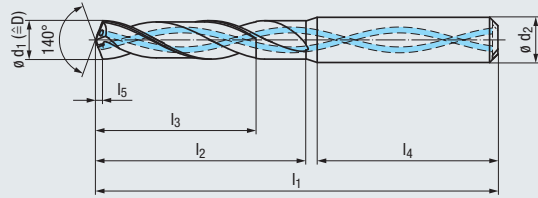
ø d <sub>1</sub> k7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	SteelDrill SD104-12xD	HA
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>			
10,00	M11x1		162	120	110	40	1,8	10	TA233344.1000	
10,10	MJ11x1		204	156	142	45	1,8	12	TA233344.1010	
10,20	M12 / M11x0,75	7/16-14 (GAL)	204	156	142	45	1,9	12	TA233344.1020	
10,32			204	156	142	45	1,9	12	TA233344.1032	
10,50	M12x1,5	7/16-20 (GAL)	204	156	142	45	1,9	12	TA233344.1050	
10,72			204	156	142	45	2,0	12	TA233344.1072	
11,00	M12x1		204	156	142	45	2,0	12	TA233344.1100	
11,11			204	156	142	45	2,0	12	TA233344.1111	
11,50	1/2-20		204	156	142	45	2,1	12	TA233344.1150	
11,51			204	156	142	45	2,1	12	TA233344.1151	
11,91			204	156	142	45	2,2	12	TA233344.1191	
12,00	M14		204	156	142	45	2,2	12	TA233344.1200	
12,30			230	182	166	45	2,2	14	TA233344.1230	
12,50	M14x1,5	G1/4 (GAL)	230	182	166	45	2,3	14	TA233344.1250	
12,70		M13x0,75	230	182	166	45	2,3	14	TA233344.1270	
13,00	M14x1		230	182	166	45	2,4	14	TA233344.1300	
13,49			230	182	166	45	2,5	14	TA233344.1349	
13,50	5/8-11		230	182	166	45	2,5	14	TA233344.1350	
13,89			230	182	166	45	2,5	14	TA233344.1389	
14,00	M16 / M15x1		230	182	166	45	2,6	14	TA233344.1400	

ø 3,00 mm - ø 9,92 mm

**InoxDrill-ID103**

ステンレスの加工に  
For the machining of stainless steel

**3xD** ショート  
Short design



**超硬** ALCR

**DIN 6537 K** R30

**Z2** **2FF**

**140°** **IT9-IT10**

**DIN 6535**  
HA HE

**INOX**  
ステンレス

Product Finder

v<sub>c</sub> / f

BASIC

STEEL

**INOX**

G

HCUT

SpotDrill

Zubehör  
Accessories

**3 x D**

5 x D

6 x D

8 x D

12 x D

2-3,5 x D

ドリル深さ  
Drill depth

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

**3 x D**

**M 1.1-4.1** **N 1.1-2.3**

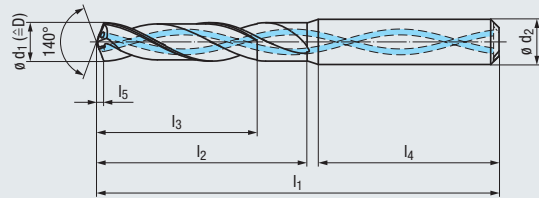
**S 1.2-1.3** **S 2.2-2.3**

ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	InoxDrill ID103-3xD	InoxDrill ID103-3xD
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE
3,00	M3,5x0,5 / MJ3,5x0,6		62	20	14	36	0,5	6	TA201724.0300	TA501724.0300
3,10			62	20	14	36	0,5	6	TA201724.0310	TA501724.0310
3,15	M3,5x0,35	#6-32	62	20	14	36	0,5	6	TA201724.0315	TA501724.0315
3,18			62	20	14	36	0,5	6	TA201724.0318	TA501724.0318
3,20	MJ3,5x0,35		62	20	14	36	0,5	6	TA201724.0320	TA501724.0320
3,22		#6-40	62	20	14	36	0,5	6	TA201724.0322	TA501724.0322
3,25		M3,5	62	20	14	36	0,6	6	TA201724.0325	TA501724.0325
3,30	M4	M3,5x0,5	62	20	14	36	0,6	6	TA201724.0330	TA501724.0330
3,35			62	20	14	36	0,6	6	TA201724.0335	TA501724.0335
3,38		M3,5x0,35	62	20	14	36	0,6	6	TA201724.0338	TA501724.0338
3,40	MJ4x0,7		62	20	14	36	0,6	6	TA201724.0340	TA501724.0340
3,50	M4x0,5 / #8-32 / #8-36		62	20	14	36	0,6	6	TA201724.0350	TA501724.0350
3,55			62	20	14	36	0,6	6	TA201724.0355	TA501724.0355
3,57			62	20	14	36	0,6	6	TA201724.0357	TA501724.0357
3,60	MJ4x0,5		62	20	14	36	0,6	6	TA201724.0360	TA501724.0360
3,65	M4x0,35		62	20	14	36	0,6	6	TA201724.0365	TA501724.0365
3,70	M4,5	M4	62	20	14	36	0,6	6	TA201724.0370	TA501724.0370
3,80		M4x0,5 / #8-32	66	24	17	36	0,6	6	TA201724.0380	TA501724.0380
3,85		#8-36	66	24	17	36	0,7	6	TA201724.0385	TA501724.0385
3,88		M4x0,35	66	24	17	36	0,7	6	TA201724.0388	TA501724.0388
3,90	MJ4,5x0,75 / #10-24		66	24	17	36	0,7	6	TA201724.0390	TA501724.0390
3,97			66	24	17	36	0,7	6	TA201724.0397	TA501724.0397
4,00			66	24	17	36	0,7	6	TA201724.0400	TA501724.0400
4,04			66	24	17	36	0,7	6	TA201724.0404	TA501724.0404
4,10	MJ4,5x0,5 / #10-32		66	24	17	36	0,7	6	TA201724.0410	TA501724.0410
4,15	M5x0,9		66	24	17	36	0,7	6	TA201724.0415	TA501724.0415
4,20	M5 / M5x0,75	M4,5	66	24	17	36	0,7	6	TA201724.0420	TA501724.0420
4,30	MJ5x0,8	M4,5x0,5 / #10-24 (GAL)	66	24	17	36	0,7	6	TA201724.0430	TA501724.0430
4,35		#10-24	66	24	17	36	0,7	6	TA201724.0435	TA501724.0435
4,37			66	24	17	36	0,7	6	TA201724.0437	TA501724.0437
4,40			66	24	17	36	0,7	6	TA201724.0440	TA501724.0440
4,45		#10-32	66	24	17	36	0,8	6	TA201724.0445	TA501724.0445
4,50	M5x0,5 / #12-24		66	24	17	36	0,8	6	TA201724.0450	TA501724.0450
4,60	M5,5 / MJ5x0,5 / #12-28		66	24	17	36	0,8	6	TA201724.0460	TA501724.0460
4,65		M5	66	24	17	36	0,8	6	TA201724.0465	TA501724.0465
4,70		M5x0,75	66	24	17	36	0,8	6	TA201724.0470	TA501724.0470
4,76			66	28	20	36	0,8	6	TA201724.0476	TA501724.0476
4,80		M5x0,5	66	28	20	36	0,8	6	TA201724.0480	TA501724.0480
4,90			66	28	20	36	0,8	6	TA201724.0490	TA501724.0490
5,00	M6	#12-24	66	28	20	36	0,8	6	TA201724.0500	TA501724.0500
5,10	MJ6x1 / 1/4-20	M5,5 / #12-28	66	28	20	36	0,9	6	TA201724.0510	TA501724.0510
5,11			66	28	20	36	0,9	6	TA201724.0511	TA501724.0511
5,16			66	28	20	36	0,9	6	TA201724.0516	TA501724.0516
5,20	M6x0,75		66	28	20	36	0,9	6	TA201724.0520	TA501724.0520
5,25			66	28	20	36	0,9	6	TA201724.0525	TA501724.0525
5,30		M5,5x0,5	66	28	20	36	0,9	6	TA201724.0530	TA501724.0530
5,40			66	28	20	36	0,9	6	TA201724.0540	TA501724.0540
5,41			66	28	20	36	0,9	6	TA201724.0541	TA501724.0541
5,50	M6x0,5 / 1/4-28		66	28	20	36	0,9	6	TA201724.0550	TA501724.0550
5,55		M6 (GAL)	66	28	20	36	0,9	6	TA201724.0555	TA501724.0555
5,56			66	28	20	36	0,9	6	TA201724.0556	TA501724.0556
5,60	MJ6x0,5	M6	66	28	20	36	1,0	6	TA201724.0560	TA501724.0560

## InoxDrill-ID103

ステンレスの加工に  
For the machining of stainless steel

**3 x D** ショート  
Short design



超硬

ALCR

DIN 6537 K

R30

Z2

2FF

140°

IT9-IT10

DIN 6535

HA  
HE

INOX  
ステンレス



ドリル深さ  
Drill depth

**3 x D**

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

▶▶ 14

M 1.1-4.1 N 1.1-2.3  
S 1.2-1.3 S 2.2-2.3

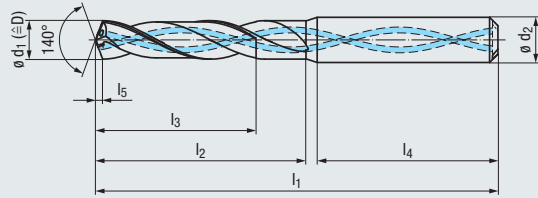
ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6		InoxDrill ID103-3xD HA	InoxDrill ID103-3xD HE
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	h <sub>6</sub>			
5,70		M6x0,75 / 1/4-20 (GAL)	66	28	20	36	1,0	6	TA201724.0570	TA501724.0570	
5,75		1/4-20	66	28	20	36	1,0	6	TA201724.0575	TA501724.0575	
5,80		M6x0,5	66	28	20	36	1,0	6	TA201724.0580	TA501724.0580	
5,90			66	28	20	36	1,0	6	TA201724.0590	TA501724.0590	
5,95		1/4-28	66	28	20	36	1,0	6	TA201724.0595	TA501724.0595	
6,00	M7		66	28	20	36	1,0	6	TA201724.0600	TA501724.0600	
6,10	MJ7x1		79	34	24	36	1,0	8	TA201724.0610	TA501724.0610	
6,20	M7x0,75		79	34	24	36	1,1	8	TA201724.0620	TA501724.0620	
6,30			79	34	24	36	1,1	8	TA201724.0630	TA501724.0630	
6,35	MJ7x0,75		79	34	24	36	1,1	8	TA201724.0635	TA501724.0635	
6,40			79	34	24	36	1,1	8	TA201724.0640	TA501724.0640	
6,50	M7x0,5		79	34	24	36	1,1	8	TA201724.0650	TA501724.0650	
6,53			79	34	24	36	1,1	8	TA201724.0653	TA501724.0653	
6,60	5/16-18	M7	79	34	24	36	1,1	8	TA201724.0660	TA501724.0660	
6,70		M7x0,75	79	34	24	36	1,1	8	TA201724.0670	TA501724.0670	
6,75			79	34	24	36	1,1	8	TA201724.0675	TA501724.0675	
6,80	M8 / G1/16	M7x0,5	79	34	24	36	1,2	8	TA201724.0680	TA501724.0680	
6,90	MJ8x1,25 / 5/16-24		79	34	24	36	1,2	8	TA201724.0690	TA501724.0690	
7,00	M8x1		79	34	24	36	1,2	8	TA201724.0700	TA501724.0700	
7,10	MJ8x1		79	41	29	36	1,2	8	TA201724.0710	TA501724.0710	
7,15			79	41	29	36	1,2	8	TA201724.0715	TA501724.0715	
7,20	M8x0,75		79	41	29	36	1,2	8	TA201724.0720	TA501724.0720	
7,25		5/16-18 (GAL) / G1/16	79	41	29	36	1,2	8	TA201724.0725	TA501724.0725	
7,30		5/16-18	79	41	29	36	1,2	8	TA201724.0730	TA501724.0730	
7,40		M8 (GAL) / 5/16-24 (GAL)	79	41	29	36	1,3	8	TA201724.0740	TA501724.0740	
7,45		M8 / 5/16-24	79	41	29	36	1,3	8	TA201724.0745	TA501724.0745	
7,50	M8x0,5		79	41	29	36	1,3	8	TA201724.0750	TA501724.0750	
7,54			79	41	29	36	1,3	8	TA201724.0754	TA501724.0754	
7,60		M8x1	79	41	29	36	1,3	8	TA201724.0760	TA501724.0760	
7,70		M8x0,75	79	41	29	36	1,3	8	TA201724.0770	TA501724.0770	
7,80	M9	M8x0,5	79	41	29	36	1,3	8	TA201724.0780	TA501724.0780	
7,90	MJ9x1,25		79	41	29	36	1,3	8	TA201724.0790	TA501724.0790	
7,94			79	41	29	36	1,3	8	TA201724.0794	TA501724.0794	
8,00	M9x1 / 3/8-16		79	41	29	36	1,4	8	TA201724.0800	TA501724.0800	
8,10	MJ9x1		89	47	35	40	1,4	10	TA201724.0810	TA501724.0810	
8,20	M9x0,75		89	47	35	40	1,4	10	TA201724.0820	TA501724.0820	
8,30			89	47	35	40	1,4	10	TA201724.0830	TA501724.0830	
8,33			89	47	35	40	1,4	10	TA201724.0833	TA501724.0833	
8,40		M9 (GAL)	89	47	35	40	1,4	10	TA201724.0840	TA501724.0840	
8,45		M9	89	47	35	40	1,4	10	TA201724.0845	TA501724.0845	
8,50	M10 / M9x0,5 / 3/8-24		89	47	35	40	1,4	10	TA201724.0850	TA501724.0850	
8,60	MJ10x1,5	M9x1	89	47	35	40	1,5	10	TA201724.0860	TA501724.0860	
8,70		M9x0,75	89	47	35	40	1,5	10	TA201724.0870	TA501724.0870	
8,73			89	47	35	40	1,5	10	TA201724.0873	TA501724.0873	
8,80	M10x1,25 / G1/8	M9x0,5 / 3/8-16	89	47	35	40	1,5	10	TA201724.0880	TA501724.0880	
8,90	MJ10x1,25		89	47	35	40	1,5	10	TA201724.0890	TA501724.0890	
9,00	M10x1	3/8-24 (GAL)	89	47	35	40	1,5	10	TA201724.0900	TA501724.0900	
9,05		3/8-24	89	47	35	40	1,5	10	TA201724.0905	TA501724.0905	
9,10	MJ10x1		89	47	35	40	1,5	10	TA201724.0910	TA501724.0910	
9,13			89	47	35	40	1,5	10	TA201724.0913	TA501724.0913	
9,20	M10x0,75		89	47	35	40	1,6	10	TA201724.0920	TA501724.0920	
9,30		M10 (GAL)	89	47	35	40	1,6	10	TA201724.0930	TA501724.0930	



**InoxDrill-ID103**

ステンレスの加工に  
For the machining of stainless steel

**3xD** ショート  
Short design



**超硬** ALCR

**DIN 6537 K** R30

**Z2** **2FF**

**140°** **IT9-IT10**

**DIN 6535**

HA  
HE



- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- G
- HCUT
- SpotDrill
- Zubehör  
Accessories

ドリル深さ  
Drill depth

アプリケーション - 被削材  
Applications - material **▶▶ 14**

**3 x D**

**M 1.1-4.1** **N 1.1-2.3**

**S 1.2-1.3** **S 2.2-2.3**

$\phi d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\phi d_2$ h6	InoxDrill ID103-3xD	
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE
9,35	MJ10x0,75	M10	89	47	35	40	1,6	10	TA201724.0935	TA501724.0935
9,40	7/16-14	M10x1,25 (GAL)	89	47	35	40	1,6	10	TA201724.0940	TA501724.0940
9,45		M10x1,25	89	47	35	40	1,6	10	TA201724.0945	TA501724.0945
9,50	M11 / M10x0,5		89	47	35	40	1,6	10	TA201724.0950	TA501724.0950
9,53			89	47	35	40	1,6	10	TA201724.0953	TA501724.0953
9,60	MJ10x0,5 / MJ11x1,5	M10x1	89	47	35	40	1,6	10	TA201724.0960	TA501724.0960
9,70		M10x0,75	89	47	35	40	1,6	10	TA201724.0970	TA501724.0970
9,80		M10x0,5	89	47	35	40	1,7	10	TA201724.0980	TA501724.0980
9,90	MJ11x1,25 / 7/16-20		89	47	35	40	1,7	10	TA201724.0990	TA501724.0990
9,92			89	47	35	40	1,7	10	TA201724.0992	TA501724.0992
10,00	M11x1		89	47	35	40	1,7	10	TA201724.1000	TA501724.1000
10,10	MJ11x1		102	55	40	45	1,7	12	TA201724.1010	TA501724.1010
10,20	M12 / M11x0,75	7/16-14 (GAL)	102	55	40	45	1,7	12	TA201724.1020	TA501724.1020
10,25		7/16-14	102	55	40	45	1,7	12	TA201724.1025	TA501724.1025
10,30		M11 (GAL)	102	55	40	45	1,7	12	TA201724.1030	TA501724.1030
10,32			102	55	40	45	1,8	12	TA201724.1032	TA501724.1032
10,35	MJ11x0,75	M11	102	55	40	45	1,8	12	TA201724.1035	TA501724.1035
10,40			102	55	40	45	1,8	12	TA201724.1040	TA501724.1040
10,50	M12x1,5	7/16-20 (GAL)	102	55	40	45	1,8	12	TA201724.1050	TA501724.1050
10,55		M11x1 (GAL) / 7/16-20	102	55	40	45	1,8	12	TA201724.1055	TA501724.1055
10,60	MJ12x1,5	M11x1	102	55	40	45	1,8	12	TA201724.1060	TA501724.1060
10,70		M11x0,75	102	55	40	45	1,8	12	TA201724.1070	TA501724.1070
10,72			102	55	40	45	1,8	12	TA201724.1072	TA501724.1072
10,80	M12x1,25 / 1/2-13		102	55	40	45	1,8	12	TA201724.1080	TA501724.1080
10,90	MJ12x1,25		102	55	40	45	1,8	12	TA201724.1090	TA501724.1090
11,00	M12x1		102	55	40	45	1,9	12	TA201724.1100	TA501724.1100
11,10	MJ12x1		102	55	40	45	1,9	12	TA201724.1110	TA501724.1110
11,11			102	55	40	45	1,9	12	TA201724.1111	TA501724.1111
11,20	M12x0,75	M12 (GAL)	102	55	40	45	1,9	12	TA201724.1120	TA501724.1120
11,25		M12	102	55	40	45	1,9	12	TA201724.1125	TA501724.1125
11,30		M12x1,5 (GAL)	102	55	40	45	1,9	12	TA201724.1130	TA501724.1130
11,35		M12x1,5	102	55	40	45	1,9	12	TA201724.1135	TA501724.1135
11,40		M12x1,25 (GAL)	102	55	40	45	1,9	12	TA201724.1140	TA501724.1140
11,45		M12x1,25	102	55	40	45	1,9	12	TA201724.1145	TA501724.1145
11,50	1/2-20		102	55	40	45	2,0	12	TA201724.1150	TA501724.1150
11,51			102	55	40	45	2,0	12	TA201724.1151	TA501724.1151
11,60		M12x1	102	55	40	45	2,0	12	TA201724.1160	TA501724.1160
11,70		M12x0,75	102	55	40	45	2,0	12	TA201724.1170	TA501724.1170
11,80	G1/4	1/2-13	102	55	40	45	2,0	12	TA201724.1180	TA501724.1180
11,90			102	55	40	45	2,0	12	TA201724.1190	TA501724.1190
11,91			102	55	40	45	2,0	12	TA201724.1191	TA501724.1191
12,00	M14		102	55	40	45	2,0	12	TA201724.1200	TA501724.1200
12,10	MJ13x1	1/2-20 (GAL)	107	60	43	45	2,1	14	TA201724.1210	TA501724.1210
12,15		1/2-20	107	60	43	45	2,1	14	TA201724.1215	TA501724.1215
12,20	9/16-12		107	60	43	45	2,1	14	TA201724.1220	TA501724.1220
12,30			107	60	43	45	2,1	14	TA201724.1230	TA501724.1230
12,50	M14x1,5	G1/4 (GAL)	107	60	43	45	2,1	14	TA201724.1250	TA501724.1250
12,55		M13x1 (GAL) / G1/4	107	60	43	45	2,1	14	TA201724.1255	TA501724.1255
12,60	MJ14x1,5	M13x1	107	60	43	45	2,1	14	TA201724.1260	TA501724.1260
12,70		M13x0,75	107	60	43	45	2,2	14	TA201724.1270	TA501724.1270
12,80	M14x1,25		107	60	43	45	2,2	14	TA201724.1280	TA501724.1280
12,90	MJ14x1,25 / 9/16-18		107	60	43	45	2,2	14	TA201724.1290	TA501724.1290

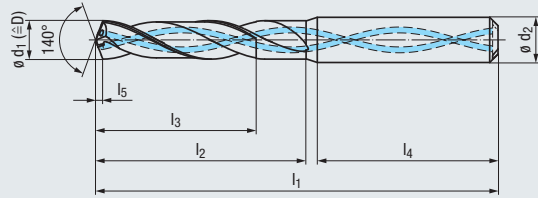
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D



### InoxDrill-ID103

ステンレスの加工に  
For the machining of stainless steel

**3xD** ショート  
Short design



超硬

ALCR

DIN  
6537 K

R30

Z2



2FF



140°



DIN 6535

HA

HE

INOX  
ステンレス



ドリル深さ  
Drill depth

**3 x D**

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

▶▶ 14

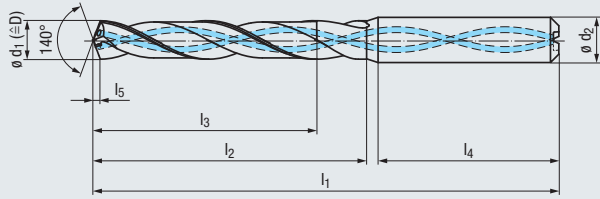
M 1.1-4.1 N 1.1-2.3  
S 1.2-1.3 S 2.2-2.3

ø d <sub>1</sub> m7	タップ Taps		転造タップ Cold-forming taps						ø d <sub>2</sub> h6	InoxDrill ID103-3xD	
	Tap	Cold-forming taps	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	HA		HE	
13,00	M14x1		107	60	43	45	2,2	14	TA201724.1300	TA501724.1300	
13,10	MJ14x1	M14	107	60	43	45	2,2	14	TA201724.1310	TA501724.1310	
13,20	M14x0,75		107	60	43	45	2,2	14	TA201724.1320	TA501724.1320	
13,30		9/16-12	107	60	43	45	2,3	14	TA201724.1330	TA501724.1330	
13,35		M14x1,5	107	60	43	45	2,3	14	TA201724.1335	TA501724.1335	
13,45		M14x1,25	107	60	43	45	2,3	14	TA201724.1345	TA501724.1345	
13,49			107	60	43	45	2,3	14	TA201724.1349	TA501724.1349	
13,50	5/8-11		107	60	43	45	2,3	14	TA201724.1350	TA501724.1350	
13,60	MJ15x1,5	M14x1 / 9/16-18 (GAL)	107	60	43	45	2,3	14	TA201724.1360	TA501724.1360	
13,65		9/16-18	107	60	43	45	2,3	14	TA201724.1365	TA501724.1365	
13,70		M14x0,75	107	60	43	45	2,3	14	TA201724.1370	TA501724.1370	
13,80			107	60	43	45	2,3	14	TA201724.1380	TA501724.1380	
13,89			107	60	43	45	2,4	14	TA201724.1389	TA501724.1389	
14,00	M16 / M15x1		107	60	43	45	2,4	14	TA201724.1400	TA501724.1400	
14,10	MJ15x1		115	65	45	48	2,4	16	TA201724.1410	TA501724.1410	
14,20	M15x0,75		115	65	45	48	2,4	16	TA201724.1420	TA501724.1420	
14,29			115	65	45	48	2,4	16	TA201724.1429	TA501724.1429	
14,30			115	65	45	48	2,4	16	TA201724.1430	TA501724.1430	
14,40			115	65	45	48	2,4	16	TA201724.1440	TA501724.1440	
14,50	M16x1,5 / 5/8-18		115	65	45	48	2,5	16	TA201724.1450	TA501724.1450	
14,60	MJ16x1,5	M15x1	115	65	45	48	2,5	16	TA201724.1460	TA501724.1460	
14,68			115	65	45	48	2,5	16	TA201724.1468	TA501724.1468	
14,70		M15x0,75	115	65	45	48	2,5	16	TA201724.1470	TA501724.1470	
14,80		5/8-11	115	65	45	48	2,5	16	TA201724.1480	TA501724.1480	
15,00	M16x1		115	65	45	48	2,5	16	TA201724.1500	TA501724.1500	
15,08			115	65	45	48	2,6	16	TA201724.1508	TA501724.1508	
15,10	MJ16x1	M16	115	65	45	48	2,6	16	TA201724.1510	TA501724.1510	
15,20	M16x0,75	5/8-18 (GAL)	115	65	45	48	2,6	16	TA201724.1520	TA501724.1520	
15,25	G3/8	5/8-18	115	65	45	48	2,6	16	TA201724.1525	TA501724.1525	
15,35		M16x1,5	115	65	45	48	2,6	16	TA201724.1535	TA501724.1535	
15,50	M18		115	65	45	48	2,6	16	TA201724.1550	TA501724.1550	
15,60		M16x1	115	65	45	48	2,6	16	TA201724.1560	TA501724.1560	
15,80	MJ18x2,5		115	65	45	48	2,7	16	TA201724.1580	TA501724.1580	
15,88			115	65	45	48	2,7	16	TA201724.1588	TA501724.1588	
16,00	M18x2		115	65	45	48	2,7	16	TA201724.1600	TA501724.1600	
16,27			123	73	51	48	2,8	18	TA201724.1627	TA501724.1627	
16,50	M18x1,5 / 3/4-10		123	73	51	48	2,8	18	TA201724.1650	TA501724.1650	
16,67			123	73	51	48	2,8	18	TA201724.1667	TA501724.1667	
17,00	M18x1		123	73	51	48	2,9	18	TA201724.1700	TA501724.1700	
17,46			123	73	51	48	3,0	18	TA201724.1746	TA501724.1746	
17,50	M20 / 3/4-16		123	73	51	48	3,0	18	TA201724.1750	TA501724.1750	
17,60		M18x1	123	73	51	48	3,0	18	TA201724.1760	TA501724.1760	
18,00	M20x2		123	73	51	48	3,1	18	TA201724.1800	TA501724.1800	
18,50	M20x1,5		131	79	55	50	3,1	20	TA201724.1850	TA501724.1850	
18,85		M20	131	79	55	50	3,2	20	TA201724.1885	TA501724.1885	
19,00	M20x1 / G1/2		131	79	55	50	3,2	20	TA201724.1900	TA501724.1900	
19,05			131	79	55	50	3,2	20	TA201724.1905	TA501724.1905	
19,35		M20x1,5	131	79	55	50	3,3	20	TA201724.1935	TA501724.1935	
19,50	M22 / 7/8-9		131	79	55	50	3,3	20	TA201724.1950	TA501724.1950	
19,60		M20x1	131	79	55	50	3,3	20	TA201724.1960	TA501724.1960	
20,00	M22x2		131	79	55	50	3,4	20	TA201724.2000	TA501724.2000	

InoxDrill-ID103

ステンレスの加工に  
For the machining of stainless steel

**5xD** ロング  
Long design



**超硬** ALCR

**DIN 6537 L** R30

**Z2** **2FF**

**140°** **IT9-IT10**

**DIN 6535**

HA  
HE

**INOX**  
ステンレス

Product Finder

v<sub>c</sub> / f

BASIC

STEEL

INOX

G

HCUT

SpotDrill

Zubehör  
Accessories

3 x D

5 x D

6 x D

8 x D

12 x D

2-3,5 x D

ドリル深さ  
Drill depth

**5 x D**

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

**M 1.1-4.1** **N 1.1-2.3**

**S 1.2-1.3** **S 2.2-2.3**

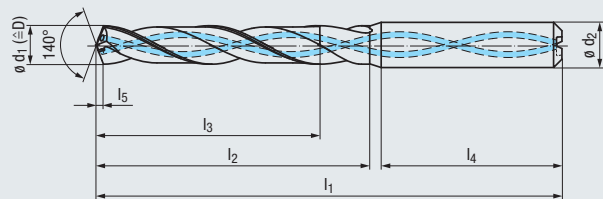
ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	InoxDrill ID103-5xD	
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE
3,00	M3,5x0,5 / MJ3,5x0,6		66	28	23	36	0,5	6	TA211724.0300	TA511724.0300
3,10			66	28	23	36	0,5	6	TA211724.0310	TA511724.0310
3,15	M3,5x0,35	#6-32	66	28	23	36	0,5	6	TA211724.0315	TA511724.0315
3,18			66	28	23	36	0,5	6	TA211724.0318	TA511724.0318
3,20	MJ3,5x0,35		66	28	23	36	0,5	6	TA211724.0320	TA511724.0320
3,22		#6-40	66	28	23	36	0,5	6	TA211724.0322	TA511724.0322
3,25		M3,5	66	28	23	36	0,6	6	TA211724.0325	TA511724.0325
3,30	M4	M3,5x0,5	66	28	23	36	0,6	6	TA211724.0330	TA511724.0330
3,35			66	28	23	36	0,6	6	TA211724.0335	TA511724.0335
3,38		M3,5x0,35	66	28	23	36	0,6	6	TA211724.0338	TA511724.0338
3,40	MJ4x0,7		66	28	23	36	0,6	6	TA211724.0340	TA511724.0340
3,50	M4x0,5 / #8-32 / #8-36		66	28	23	36	0,6	6	TA211724.0350	TA511724.0350
3,55			66	28	23	36	0,6	6	TA211724.0355	TA511724.0355
3,57			66	28	23	36	0,6	6	TA211724.0357	TA511724.0357
3,60	MJ4x0,5		66	28	23	36	0,6	6	TA211724.0360	TA511724.0360
3,65	M4x0,35		66	28	23	36	0,6	6	TA211724.0365	TA511724.0365
3,70	M4,5	M4	66	28	23	36	0,6	6	TA211724.0370	TA511724.0370
3,80		M4x0,5 / #8-32	74	36	29	36	0,6	6	TA211724.0380	TA511724.0380
3,85		#8-36	74	36	29	36	0,7	6	TA211724.0385	TA511724.0385
3,88		M4x0,35	74	36	29	36	0,7	6	TA211724.0388	TA511724.0388
3,90	MJ4,5x0,75 / #10-24		74	36	29	36	0,7	6	TA211724.0390	TA511724.0390
3,97			74	36	29	36	0,7	6	TA211724.0397	TA511724.0397
4,00			74	36	29	36	0,7	6	TA211724.0400	TA511724.0400
4,04			74	36	29	36	0,7	6	TA211724.0404	TA511724.0404
4,10	MJ4,5x0,5 / #10-32		74	36	29	36	0,7	6	TA211724.0410	TA511724.0410
4,15	M5x0,9		74	36	29	36	0,7	6	TA211724.0415	TA511724.0415
4,20	M5 / M5x0,75	M4,5	74	36	29	36	0,7	6	TA211724.0420	TA511724.0420
4,30	MJ5x0,8	M4,5x0,5 / #10-24 (GAL)	74	36	29	36	0,7	6	TA211724.0430	TA511724.0430
4,35		#10-24	74	36	29	36	0,7	6	TA211724.0435	TA511724.0435
4,37			74	36	29	36	0,7	6	TA211724.0437	TA511724.0437
4,40			74	36	29	36	0,7	6	TA211724.0440	TA511724.0440
4,45		#10-32	74	36	29	36	0,8	6	TA211724.0445	TA511724.0445
4,50	M5x0,5 / #12-24		74	36	29	36	0,8	6	TA211724.0450	TA511724.0450
4,60	M5,5 / MJ5x0,5 / #12-28		74	36	29	36	0,8	6	TA211724.0460	TA511724.0460
4,65		M5	74	36	29	36	0,8	6	TA211724.0465	TA511724.0465
4,70		M5x0,75	74	36	29	36	0,8	6	TA211724.0470	TA511724.0470
4,76			82	44	35	36	0,8	6	TA211724.0476	TA511724.0476
4,80		M5x0,5	82	44	35	36	0,8	6	TA211724.0480	TA511724.0480
4,90			82	44	35	36	0,8	6	TA211724.0490	TA511724.0490
5,00	M6	#12-24	82	44	35	36	0,8	6	TA211724.0500	TA511724.0500
5,10	MJ6x1 / 1/4-20	M5,5 / #12-28	82	44	35	36	0,9	6	TA211724.0510	TA511724.0510
5,11			82	44	35	36	0,9	6	TA211724.0511	TA511724.0511
5,16			82	44	35	36	0,9	6	TA211724.0516	TA511724.0516
5,20	M6x0,75		82	44	35	36	0,9	6	TA211724.0520	TA511724.0520
5,25			82	44	35	36	0,9	6	TA211724.0525	TA511724.0525
5,30		M5,5x0,5	82	44	35	36	0,9	6	TA211724.0530	TA511724.0530
5,40			82	44	35	36	0,9	6	TA211724.0540	TA511724.0540
5,41			82	44	35	36	0,9	6	TA211724.0541	TA511724.0541
5,50	M6x0,5 / 1/4-28		82	44	35	36	0,9	6	TA211724.0550	TA511724.0550

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX**
- GG
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D**
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

### InoxDrill-ID103

ステンレスの加工に  
For the machining of stainless steel

### 5 x D ロング Long design



超硬

ALCR

DIN  
6537 L

R30

Z2



2FF



140°



IT9-IT10

DIN 6535

HA

HE

INOX  
ステンレス



ドリル深さ  
Drill depth

### 5 x D

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



14

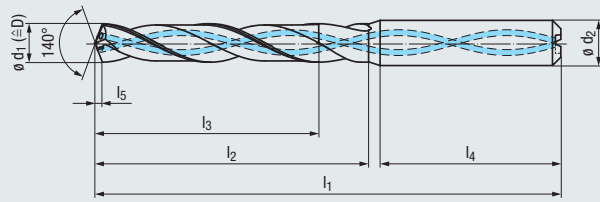
M 1.1-4.1 N 1.1-2.3  
S 1.2-1.3 S 2.2-2.3

$\phi d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\phi d_2$ h6	InoxDrill ID103-5xD	InoxDrill ID103-5xD
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE
5.55		M6 (GAL)	82	44	35	36	0,9	6	TA211724.0555	TA511724.0555
5.56			82	44	35	36	0,9	6	TA211724.0556	TA511724.0556
5.60	MJ6x0,5	M6	82	44	35	36	1,0	6	TA211724.0560	TA511724.0560
5.70		M6x0,75 / 1/4-20 (GAL)	82	44	35	36	1,0	6	TA211724.0570	TA511724.0570
5.75		1/4-20	82	44	35	36	1,0	6	TA211724.0575	TA511724.0575
5.80		M6x0,5	82	44	35	36	1,0	6	TA211724.0580	TA511724.0580
5.90			82	44	35	36	1,0	6	TA211724.0590	TA511724.0590
5.95		1/4-28	82	44	35	36	1,0	6	TA211724.0595	TA511724.0595
6.00	M7		82	44	35	36	1,0	6	TA211724.0600	TA511724.0600
6.10	MJ7x1		91	53	43	36	1,0	8	TA211724.0610	TA511724.0610
6.20	M7x0,75		91	53	43	36	1,1	8	TA211724.0620	TA511724.0620
6.30			91	53	43	36	1,1	8	TA211724.0630	TA511724.0630
6.35	MJ7x0,75		91	53	43	36	1,1	8	TA211724.0635	TA511724.0635
6.40			91	53	43	36	1,1	8	TA211724.0640	TA511724.0640
6.50	M7x0,5		91	53	43	36	1,1	8	TA211724.0650	TA511724.0650
6.53			91	53	43	36	1,1	8	TA211724.0653	TA511724.0653
6.60	5/16-18	M7	91	53	43	36	1,1	8	TA211724.0660	TA511724.0660
6.70		M7x0,75	91	53	43	36	1,1	8	TA211724.0670	TA511724.0670
6.75			91	53	43	36	1,1	8	TA211724.0675	TA511724.0675
6.80	M8 / G1/16	M7x0,5	91	53	43	36	1,2	8	TA211724.0680	TA511724.0680
6.90	MJ8x1,25 / 5/16-24		91	53	43	36	1,2	8	TA211724.0690	TA511724.0690
7.00	M8x1		91	53	43	36	1,2	8	TA211724.0700	TA511724.0700
7.10	MJ8x1		91	53	43	36	1,2	8	TA211724.0710	TA511724.0710
7.15			91	53	43	36	1,2	8	TA211724.0715	TA511724.0715
7.20	M8x0,75		91	53	43	36	1,2	8	TA211724.0720	TA511724.0720
7.25		5/16-18 (GAL) / G1/16	91	53	43	36	1,2	8	TA211724.0725	TA511724.0725
7.30		5/16-18	91	53	43	36	1,2	8	TA211724.0730	TA511724.0730
7.40		M8 (GAL) / 5/16-24 (GAL)	91	53	43	36	1,3	8	TA211724.0740	TA511724.0740
7.45		M8 / 5/16-24	91	53	43	36	1,3	8	TA211724.0745	TA511724.0745
7.50	M8x0,5		91	53	43	36	1,3	8	TA211724.0750	TA511724.0750
7.54			91	53	43	36	1,3	8	TA211724.0754	TA511724.0754
7.60		M8x1	91	53	43	36	1,3	8	TA211724.0760	TA511724.0760
7.70		M8x0,75	91	53	43	36	1,3	8	TA211724.0770	TA511724.0770
7.80		M8x0,5	91	53	43	36	1,3	8	TA211724.0780	TA511724.0780
7.90	M9		91	53	43	36	1,3	8	TA211724.0790	TA511724.0790
7.94	MJ9x1,25		91	53	43	36	1,3	8	TA211724.0794	TA511724.0794
8.00	M9x1 / 3/8-16		91	53	43	36	1,4	8	TA211724.0800	TA511724.0800
8.10	MJ9x1		103	61	49	40	1,4	10	TA211724.0810	TA511724.0810
8.20	M9x0,75		103	61	49	40	1,4	10	TA211724.0820	TA511724.0820
8.30			103	61	49	40	1,4	10	TA211724.0830	TA511724.0830
8.33			103	61	49	40	1,4	10	TA211724.0833	TA511724.0833
8.40		M9 (GAL)	103	61	49	40	1,4	10	TA211724.0840	TA511724.0840
8.45		M9	103	61	49	40	1,4	10	TA211724.0845	TA511724.0845
8.50	M10 / M9x0,5 / 3/8-24		103	61	49	40	1,4	10	TA211724.0850	TA511724.0850
8.60	MJ10x1,5	M9x1	103	61	49	40	1,5	10	TA211724.0860	TA511724.0860
8.70		M9x0,75	103	61	49	40	1,5	10	TA211724.0870	TA511724.0870
8.73			103	61	49	40	1,5	10	TA211724.0873	TA511724.0873
8.80	M10x1,25 / G1/8	M9x0,5 / 3/8-16	103	61	49	40	1,5	10	TA211724.0880	TA511724.0880
8.90	MJ10x1,25		103	61	49	40	1,5	10	TA211724.0890	TA511724.0890

InoxDrill-ID103

ステンレスの加工に  
For the machining of stainless steel

**5xD** ロング  
Long design



**超硬** ALCR

**DIN 6537 L** R30

**Z2** **2FF**

**140°** **IT9-IT10**

**DIN 6535**

HA  
HE

**INOX**  
ステンレス

Product Finder

v<sub>c</sub> / f

BASIC

STEEL

INOX

G

HCUT

SpotDrill

Zubehör  
Accessories

3 x D

5 x D

6 x D

8 x D

12 x D

2-3,5 x D

ドリル深さ  
Drill depth

**5 x D**

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

**M 1.1-4.1** **N 1.1-2.3**

**S 1.2-1.3** **S 2.2-2.3**

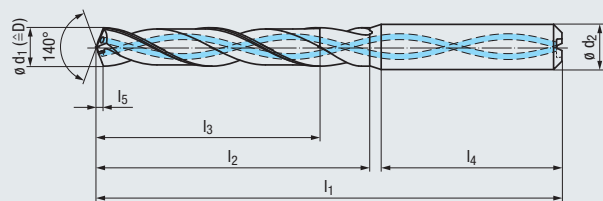
ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	InoxDrill ID103-5xD	InoxDrill ID103-5xD
	HA	HE	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE
9,00	M10x1	3/8-24 (GAL)	103	61	49	40	1,5	10	TA211724.0900	TA511724.0900
9,05		3/8-24	103	61	49	40	1,5	10	TA211724.0905	TA511724.0905
9,10	MJ10x1		103	61	49	40	1,5	10	TA211724.0910	TA511724.0910
9,13			103	61	49	40	1,5	10	TA211724.0913	TA511724.0913
9,20	M10x0,75		103	61	49	40	1,6	10	TA211724.0920	TA511724.0920
9,30		M10 (GAL)	103	61	49	40	1,6	10	TA211724.0930	TA511724.0930
9,35	MJ10x0,75	M10	103	61	49	40	1,6	10	TA211724.0935	TA511724.0935
9,40	7/16-14	M10x1,25 (GAL)	103	61	49	40	1,6	10	TA211724.0940	TA511724.0940
9,45		M10x1,25	103	61	49	40	1,6	10	TA211724.0945	TA511724.0945
9,50	M11 / M10x0,5		103	61	49	40	1,6	10	TA211724.0950	TA511724.0950
9,53			103	61	49	40	1,6	10	TA211724.0953	TA511724.0953
9,60	MJ10x0,5 / MJ11x1,5	M10x1	103	61	49	40	1,6	10	TA211724.0960	TA511724.0960
9,70		M10x0,75	103	61	49	40	1,6	10	TA211724.0970	TA511724.0970
9,80		M10x0,5	103	61	49	40	1,7	10	TA211724.0980	TA511724.0980
9,90	MJ11x1,25 / 7/16-20		103	61	49	40	1,7	10	TA211724.0990	TA511724.0990
9,92			103	61	49	40	1,7	10	TA211724.0992	TA511724.0992
10,00	M11x1		103	61	49	40	1,7	10	TA211724.1000	TA511724.1000
10,10	MJ11x1		118	71	56	45	1,7	12	TA211724.1010	TA511724.1010
10,20	M12 / M11x0,75	7/16-14 (GAL)	118	71	56	45	1,7	12	TA211724.1020	TA511724.1020
10,25		7/16-14	118	71	56	45	1,7	12	TA211724.1025	TA511724.1025
10,30		M11 (GAL)	118	71	56	45	1,7	12	TA211724.1030	TA511724.1030
10,32			118	71	56	45	1,8	12	TA211724.1032	TA511724.1032
10,35	MJ11x0,75	M11	118	71	56	45	1,8	12	TA211724.1035	TA511724.1035
10,40			118	71	56	45	1,8	12	TA211724.1040	TA511724.1040
10,50	M12x1,5	7/16-20 (GAL)	118	71	56	45	1,8	12	TA211724.1050	TA511724.1050
10,55		M11x1 (GAL) / 7/16-20	118	71	56	45	1,8	12	TA211724.1055	TA511724.1055
10,60	MJ12x1,5	M11x1	118	71	56	45	1,8	12	TA211724.1060	TA511724.1060
10,70		M11x0,75	118	71	56	45	1,8	12	TA211724.1070	TA511724.1070
10,72			118	71	56	45	1,8	12	TA211724.1072	TA511724.1072
10,80	M12x1,25 / 1/2-13		118	71	56	45	1,8	12	TA211724.1080	TA511724.1080
10,90	MJ12x1,25		118	71	56	45	1,8	12	TA211724.1090	TA511724.1090
11,00	M12x1		118	71	56	45	1,9	12	TA211724.1100	TA511724.1100
11,10	MJ12x1		118	71	56	45	1,9	12	TA211724.1110	TA511724.1110
11,11			118	71	56	45	1,9	12	TA211724.1111	TA511724.1111
11,20	M12x0,75	M12 (GAL)	118	71	56	45	1,9	12	TA211724.1120	TA511724.1120
11,25		M12	118	71	56	45	1,9	12	TA211724.1125	TA511724.1125
11,30		M12x1,5 (GAL)	118	71	56	45	1,9	12	TA211724.1130	TA511724.1130
11,35		M12x1,5	118	71	56	45	1,9	12	TA211724.1135	TA511724.1135
11,40		M12x1,25 (GAL)	118	71	56	45	1,9	12	TA211724.1140	TA511724.1140
11,45		M12x1,25	118	71	56	45	1,9	12	TA211724.1145	TA511724.1145
11,50	1/2-20		118	71	56	45	2,0	12	TA211724.1150	TA511724.1150
11,51			118	71	56	45	2,0	12	TA211724.1151	TA511724.1151
11,60		M12x1	118	71	56	45	2,0	12	TA211724.1160	TA511724.1160
11,70		M12x0,75	118	71	56	45	2,0	12	TA211724.1170	TA511724.1170
11,80	G1/4	1/2-13	118	71	56	45	2,0	12	TA211724.1180	TA511724.1180
11,90			118	71	56	45	2,0	12	TA211724.1190	TA511724.1190
11,91			118	71	56	45	2,0	12	TA211724.1191	TA511724.1191
12,00	M14		118	71	56	45	2,0	12	TA211724.1200	TA511724.1200
12,10	MJ13x1	1/2-20 (GAL)	124	77	60	45	2,1	14	TA211724.1210	TA511724.1210

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX**
- GG
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D**
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

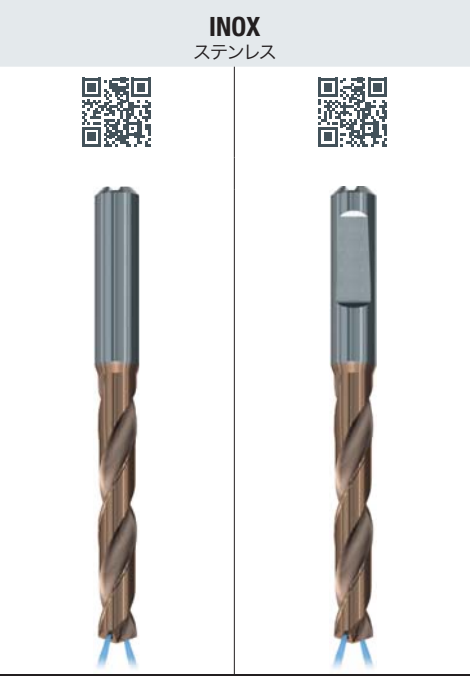
## InoxDrill-ID103

ステンレスの加工に  
For the machining of stainless steel

**5 x D** ロング  
Long design



超硬	ALCR
DIN 6537 L	R30
Z2	2FF
140°	IT9-IT10
DIN 6535	
HA	HE



ドリル深さ  
Drill depth

アプリケーション - 被削材  
Applications - material ▶ 14

**5 x D**

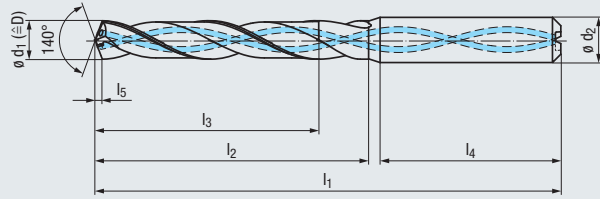
M 1.1-4.1	N 1.1-2.3
S 1.2-1.3	S 2.2-2.3

$\phi d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\phi d_2$ h6	InoxDrill ID103-5xD	InoxDrill ID103-5xD
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE
12,15		1/2-20	124	77	60	45	2,1	14	TA211724.1215	TA511724.1215
12,20	9/16-12		124	77	60	45	2,1	14	TA211724.1220	TA511724.1220
12,30			124	77	60	45	2,1	14	TA211724.1230	TA511724.1230
12,50	M14x1,5	G1/4 (GAL)	124	77	60	45	2,1	14	TA211724.1250	TA511724.1250
12,55		M13x1 (GAL) / G1/4	124	77	60	45	2,1	14	TA211724.1255	TA511724.1255
12,60	MJ14x1,5	M13x1	124	77	60	45	2,1	14	TA211724.1260	TA511724.1260
12,70		M13x0,75	124	77	60	45	2,2	14	TA211724.1270	TA511724.1270
12,80	M14x1,25		124	77	60	45	2,2	14	TA211724.1280	TA511724.1280
12,90	MJ14x1,25 / 9/16-18		124	77	60	45	2,2	14	TA211724.1290	TA511724.1290
13,00	M14x1		124	77	60	45	2,2	14	TA211724.1300	TA511724.1300
13,10	MJ14x1	M14	124	77	60	45	2,2	14	TA211724.1310	TA511724.1310
13,20	M14x0,75		124	77	60	45	2,2	14	TA211724.1320	TA511724.1320
13,30		9/16-12	124	77	60	45	2,3	14	TA211724.1330	TA511724.1330
13,35		M14x1,5	124	77	60	45	2,3	14	TA211724.1335	TA511724.1335
13,45		M14x1,25	124	77	60	45	2,3	14	TA211724.1345	TA511724.1345
13,49			124	77	60	45	2,3	14	TA211724.1349	TA511724.1349
13,50	5/8-11		124	77	60	45	2,3	14	TA211724.1350	TA511724.1350
13,60	MJ15x1,5	M14x1 / 9/16-18 (GAL)	124	77	60	45	2,3	14	TA211724.1360	TA511724.1360
13,65		9/16-18	124	77	60	45	2,3	14	TA211724.1365	TA511724.1365
13,70		M14x0,75	124	77	60	45	2,3	14	TA211724.1370	TA511724.1370
13,80			124	77	60	45	2,3	14	TA211724.1380	TA511724.1380
13,89			124	77	60	45	2,4	14	TA211724.1389	TA511724.1389
14,00	M16 / M15x1		124	77	60	45	2,4	14	TA211724.1400	TA511724.1400
14,10	MJ15x1		133	83	63	48	2,4	16	TA211724.1410	TA511724.1410
14,20	M15x0,75		133	83	63	48	2,4	16	TA211724.1420	TA511724.1420
14,29			133	83	63	48	2,4	16	TA211724.1429	TA511724.1429
14,30			133	83	63	48	2,4	16	TA211724.1430	TA511724.1430
14,40			133	83	63	48	2,4	16	TA211724.1440	TA511724.1440
14,50	M16x1,5 / 5/8-18		133	83	63	48	2,5	16	TA211724.1450	TA511724.1450
14,60	MJ16x1,5	M15x1	133	83	63	48	2,5	16	TA211724.1460	TA511724.1460
14,68			133	83	63	48	2,5	16	TA211724.1468	TA511724.1468
14,70		M15x0,75	133	83	63	48	2,5	16	TA211724.1470	TA511724.1470
14,80		5/8-11	133	83	63	48	2,5	16	TA211724.1480	TA511724.1480
15,00	M16x1		133	83	63	48	2,5	16	TA211724.1500	TA511724.1500
15,08			133	83	63	48	2,6	16	TA211724.1508	TA511724.1508
15,10	MJ16x1	M16	133	83	63	48	2,6	16	TA211724.1510	TA511724.1510
15,20	M16x0,75	5/8-18 (GAL)	133	83	63	48	2,6	16	TA211724.1520	TA511724.1520
15,25	G3/8	5/8-18	133	83	63	48	2,6	16	TA211724.1525	TA511724.1525
15,35		M16x1,5	133	83	63	48	2,6	16	TA211724.1535	TA511724.1535
15,50	M18		133	83	63	48	2,6	16	TA211724.1550	TA511724.1550
15,60		M16x1	133	83	63	48	2,6	16	TA211724.1560	TA511724.1560
15,80	MJ18x2,5		133	83	63	48	2,7	16	TA211724.1580	TA511724.1580
15,88			133	83	63	48	2,7	16	TA211724.1588	TA511724.1588
16,00	M18x2		133	83	63	48	2,7	16	TA211724.1600	TA511724.1600
16,27			143	93	71	48	2,8	18	TA211724.1627	TA511724.1627
16,50	M18x1,5 / 3/4-10		143	93	71	48	2,8	18	TA211724.1650	TA511724.1650
16,67			143	93	71	48	2,8	18	TA211724.1667	TA511724.1667
17,00	M18x1		143	93	71	48	2,9	18	TA211724.1700	TA511724.1700
17,46			143	93	71	48	3,0	18	TA211724.1746	TA511724.1746

**InoxDrill-ID103**

ステンレスの加工に  
For the machining of stainless steel

**5xD** ロング  
Long design



超硬	ALCR
DIN 6537 L	R30
Z2	2FF
140°	IT9-IT10
DIN 6535	
HA	HE

**INOX**  
ステンレス

- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX**
- GG
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D**
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

ドリル深さ  
Drill depth

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

**5 x D**

M 1.1-4.1	N 1.1-2.3
S 1.2-1.3	S 2.2-2.3

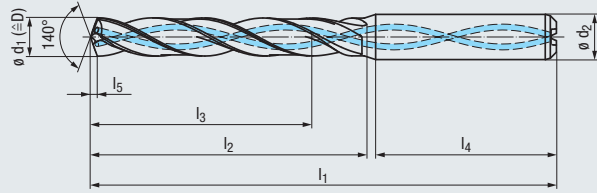
ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	InoxDrill ID103-5xD	InoxDrill ID103-5xD
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE
17,50	M20 / 3/4-16		143	93	71	48	3,0	18	TA211724.1750	TA511724.1750
17,60		M18x1	143	93	71	48	3,0	18	TA211724.1760	TA511724.1760
18,00	M20x2		143	93	71	48	3,1	18	TA211724.1800	TA511724.1800
18,50	M20x1,5		153	101	77	50	3,1	20	TA211724.1850	TA511724.1850
18,85		M20	153	101	77	50	3,2	20	TA211724.1885	TA511724.1885
19,00	M20x1 / G1/2		153	101	77	50	3,2	20	TA211724.1900	TA511724.1900
19,05			153	101	77	50	3,2	20	TA211724.1905	TA511724.1905
19,35		M20x1,5	153	101	77	50	3,3	20	TA211724.1935	TA511724.1935
19,50	M22 / 7/8-9		153	101	77	50	3,3	20	TA211724.1950	TA511724.1950
19,60		M20x1	153	101	77	50	3,3	20	TA211724.1960	TA511724.1960
20,00	M22x2		153	101	77	50	3,4	20	TA211724.2000	TA511724.2000

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG**
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D**
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

### EF-Drill-GG

鋳鉄の加工に  
For the machining of cast materials

### 5 x D ロング Long design



**超硬** TIALN

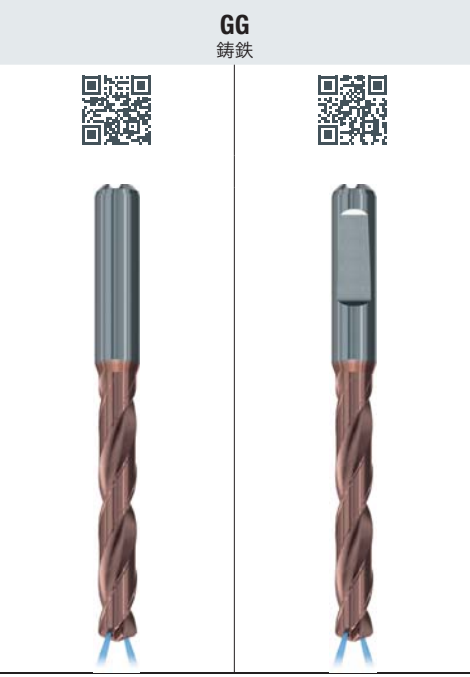
DIN 6537 L R30

Z2 4FF

140° IT9-IT10

DIN 6535

HA HE



ドリル深さ  
Drill depth

**5 x D**

アプリケーション – 被削材  
Applications – material ▶ 14

**K 1.1-4.2**

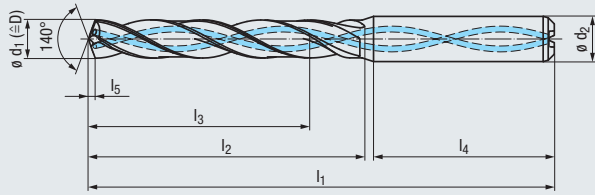
$\emptyset d_1$ m7	タップ Taps		転造タップ Cold-forming taps					$\emptyset d_2$ h6	EF-Drill GG-5xD	
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE
2,80									TA212444.0280	TA512444.0280
2,85	#6-32		61	22	17	36	0,7	6	TA212444.0285	TA512444.0285
2,90	M3,5		61	22	17	36	0,8	6	TA212444.0290	TA512444.0290
3,00	M3,5x0,5 / MJ3,5x0,6		66	28	23	36	0,8	6	TA212444.0300	TA512444.0300
3,10			66	28	23	36	0,8	6	TA212444.0310	TA512444.0310
3,15	M3,5x0,35		66	28	23	36	0,8	6	TA212444.0315	TA512444.0315
3,20	MJ3,5x0,35		66	28	23	36	0,8	6	TA212444.0320	TA512444.0320
3,25			66	28	23	36	0,8	6	TA212444.0325	TA512444.0325
3,30	M4		66	28	23	36	0,9	6	TA212444.0330	TA512444.0330
3,35			66	28	23	36	0,9	6	TA212444.0335	TA512444.0335
3,38			66	28	23	36	0,9	6	TA212444.0338	TA512444.0338
3,40	MJ4x0,7		66	28	23	36	0,9	6	TA212444.0340	TA512444.0340
3,50	M4x0,5 / #8-32 / #8-36		66	28	23	36	0,9	6	TA212444.0350	TA512444.0350
3,55			66	28	23	36	0,9	6	TA212444.0355	TA512444.0355
3,60	MJ4x0,5		66	28	23	36	0,9	6	TA212444.0360	TA512444.0360
3,65	M4x0,35		66	28	23	36	0,9	6	TA212444.0365	TA512444.0365
3,70	M4,5		66	28	23	36	1,0	6	TA212444.0370	TA512444.0370
3,80			74	36	29	36	1,0	6	TA212444.0380	TA512444.0380
3,88			74	36	29	36	1,0	6	TA212444.0388	TA512444.0388
3,90	MJ4,5x0,75 / #10-24		74	36	29	36	1,0	6	TA212444.0390	TA512444.0390
4,00			74	36	29	36	1,0	6	TA212444.0400	TA512444.0400
4,10	MJ4,5x0,5 / #10-32		74	36	29	36	1,1	6	TA212444.0410	TA512444.0410
4,15	M5x0,9		74	36	29	36	1,1	6	TA212444.0415	TA512444.0415
4,20	M5 / M5x0,75		74	36	29	36	1,1	6	TA212444.0420	TA512444.0420
4,30	MJ5x0,8		74	36	29	36	1,1	6	TA212444.0430	TA512444.0430
4,35			74	36	29	36	1,1	6	TA212444.0435	TA512444.0435
4,40			74	36	29	36	1,1	6	TA212444.0440	TA512444.0440
4,45			74	36	29	36	1,1	6	TA212444.0445	TA512444.0445
4,50	M5x0,5 / #12-24		74	36	29	36	1,2	6	TA212444.0450	TA512444.0450
4,60	M5,5 / MJ5x0,5 / #12-28		74	36	29	36	1,2	6	TA212444.0460	TA512444.0460
4,65			74	36	29	36	1,2	6	TA212444.0465	TA512444.0465
4,70			74	36	29	36	1,2	6	TA212444.0470	TA512444.0470
4,80			82	44	35	36	1,2	6	TA212444.0480	TA512444.0480
4,90			82	44	35	36	1,3	6	TA212444.0490	TA512444.0490
5,00	M6		82	44	35	36	1,3	6	TA212444.0500	TA512444.0500
5,10	MJ6x1 / 1/4-20		82	44	35	36	1,3	6	TA212444.0510	TA512444.0510
5,20	M6x0,75		82	44	35	36	1,3	6	TA212444.0520	TA512444.0520
5,25			82	44	35	36	1,3	6	TA212444.0525	TA512444.0525
5,30			82	44	35	36	1,4	6	TA212444.0530	TA512444.0530
5,40			82	44	35	36	1,4	6	TA212444.0540	TA512444.0540
5,50	M6x0,5 / 1/4-28		82	44	35	36	1,4	6	TA212444.0550	TA512444.0550
5,55			82	44	35	36	1,4	6	TA212444.0555	TA512444.0555
5,60	MJ6x0,5		82	44	35	36	1,4	6	TA212444.0560	TA512444.0560
5,70			82	44	35	36	1,4	6	TA212444.0570	TA512444.0570
5,80			82	44	35	36	1,5	6	TA212444.0580	TA512444.0580
5,90			82	44	35	36	1,5	6	TA212444.0590	TA512444.0590
6,00	M7		82	44	35	36	1,5	6	TA212444.0600	TA512444.0600
6,10	MJ7x1		91	53	43	36	1,5	8	TA212444.0610	TA512444.0610
6,20	M7x0,75		91	53	43	36	1,6	8	TA212444.0620	TA512444.0620



**EF-Drill-GG**

鋳鉄の加工に  
For the machining of cast materials

**5xD** ロング  
Long design



**超硬** TIALN

**DIN 6537 L** R30

**Z2** **4FF**

**140°** **IT9-IT10**

**DIN 6535**  
HA HE

**GG**  
鋳鉄

- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GG**
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D**
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

ドリル深さ  
Drill depth

アプリケーション - 被削材  
Applications - material **14**

**5 x D**

**K 1.1-4.2**

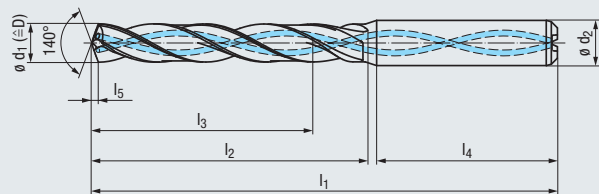
ø d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						ø d <sub>2</sub> h6	EF-Drill GG-5xD	EF-Drill GG-5xD
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE
6,30			91	53	43	36	1,6	8	TA212444.0630	TA512444.0630
6,35	MJ7x0,75		91	53	43	36	1,6	8	TA212444.0635	TA512444.0635
6,40			91	53	43	36	1,6	8	TA212444.0640	TA512444.0640
6,50	M7x0,5		91	53	43	36	1,6	8	TA212444.0650	TA512444.0650
6,60	5/16-18	M7	91	53	43	36	1,7	8	TA212444.0660	TA512444.0660
6,70		M7x0,75	91	53	43	36	1,7	8	TA212444.0670	TA512444.0670
6,80	M8 / G1/16	M7x0,5	91	53	43	36	1,7	8	TA212444.0680	TA512444.0680
6,90	MJ8x1,25 / 5/16-24		91	53	43	36	1,7	8	TA212444.0690	TA512444.0690
7,00	M8x1		91	53	43	36	1,8	8	TA212444.0700	TA512444.0700
7,10	MJ8x1		91	53	43	36	1,8	8	TA212444.0710	TA512444.0710
7,20	M8x0,75		91	53	43	36	1,8	8	TA212444.0720	TA512444.0720
7,30		5/16-18	91	53	43	36	1,8	8	TA212444.0730	TA512444.0730
7,40		M8 (GAL) / 5/16-24 (GAL)	91	53	43	36	1,9	8	TA212444.0740	TA512444.0740
7,45		M8 / 5/16-24	91	53	43	36	1,9	8	TA212444.0745	TA512444.0745
7,50	M8x0,5		91	53	43	36	1,9	8	TA212444.0750	TA512444.0750
7,60		M8x1	91	53	43	36	1,9	8	TA212444.0760	TA512444.0760
7,70		M8x0,75	91	53	43	36	1,9	8	TA212444.0770	TA512444.0770
7,80	M9	M8x0,5	91	53	43	36	2,0	8	TA212444.0780	TA512444.0780
7,90	MJ9x1,25		91	53	43	36	2,0	8	TA212444.0790	TA512444.0790
8,00	M9x1 / 3/8-16		91	53	43	36	2,0	8	TA212444.0800	TA512444.0800
8,10	MJ9x1		103	61	49	40	2,0	10	TA212444.0810	TA512444.0810
8,20	M9x0,75		103	61	49	40	2,1	10	TA212444.0820	TA512444.0820
8,30			103	61	49	40	2,1	10	TA212444.0830	TA512444.0830
8,40		M9 (GAL)	103	61	49	40	2,1	10	TA212444.0840	TA512444.0840
8,45		M9	103	61	49	40	2,1	10	TA212444.0845	TA512444.0845
8,50	M10 / M9x0,5 / 3/8-24		103	61	49	40	2,1	10	TA212444.0850	TA512444.0850
8,60	MJ10x1,5	M9x1	103	61	49	40	2,2	10	TA212444.0860	TA512444.0860
8,70		M9x0,75	103	61	49	40	2,2	10	TA212444.0870	TA512444.0870
8,80	M10x1,25 / G1/8	M9x0,5 / 3/8-16	103	61	49	40	2,2	10	TA212444.0880	TA512444.0880
8,90	MJ10x1,25		103	61	49	40	2,2	10	TA212444.0890	TA512444.0890
9,00	M10x1	3/8-24 (GAL)	103	61	49	40	2,3	10	TA212444.0900	TA512444.0900
9,10	MJ10x1		103	61	49	40	2,3	10	TA212444.0910	TA512444.0910
9,20	M10x0,75		103	61	49	40	2,3	10	TA212444.0920	TA512444.0920
9,30		M10 (GAL)	103	61	49	40	2,3	10	TA212444.0930	TA512444.0930
9,35	MJ10x0,75	M10	103	61	49	40	2,3	10	TA212444.0935	TA512444.0935
9,40	7/16-14	M10x1,25 (GAL)	103	61	49	40	2,4	10	TA212444.0940	TA512444.0940
9,45		M10x1,25	103	61	49	40	2,4	10	TA212444.0945	TA512444.0945
9,50	M11 / M10x0,5		103	61	49	40	2,4	10	TA212444.0950	TA512444.0950
9,60	MJ10x0,5 / MJ11x1,5	M10x1	103	61	49	40	2,4	10	TA212444.0960	TA512444.0960
9,70		M10x0,75	103	61	49	40	2,4	10	TA212444.0970	TA512444.0970
9,80		M10x0,5	103	61	49	40	2,5	10	TA212444.0980	TA512444.0980
9,90	MJ11x1,25 / 7/16-20		103	61	49	40	2,5	10	TA212444.0990	TA512444.0990
10,00	M11x1		103	61	49	40	2,5	10	TA212444.1000	TA512444.1000
10,10	MJ11x1		118	71	56	45	2,5	12	TA212444.1010	TA512444.1010
10,20	M12 / M11x0,75	7/16-14 (GAL)	118	71	56	45	2,6	12	TA212444.1020	TA512444.1020
10,30		M11 (GAL)	118	71	56	45	2,6	12	TA212444.1030	TA512444.1030
10,35	MJ11x0,75	M11	118	71	56	45	2,6	12	TA212444.1035	TA512444.1035
10,40			118	71	56	45	2,6	12	TA212444.1040	TA512444.1040
10,50	M12x1,5	7/16-20 (GAL)	118	71	56	45	2,6	12	TA212444.1050	TA512444.1050

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

## EF-Drill-GG

鋳鉄の加工に  
For the machining of cast materials

### 5 x D ロング Long design



**超硬** TIALN

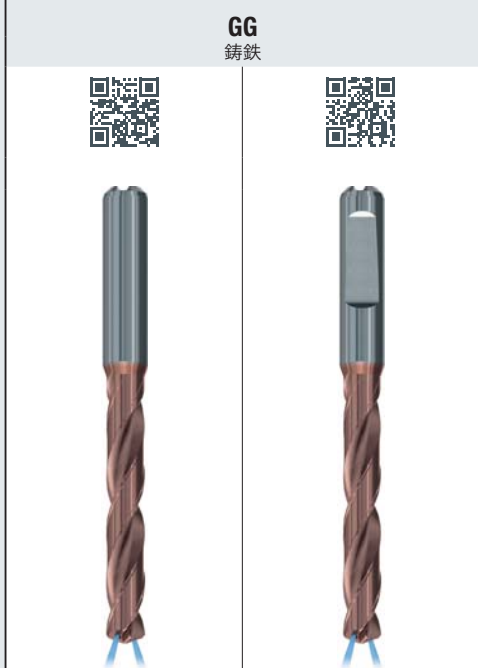
DIN 6537 L R30

Z2 4FF

140° IT9-IT10

DIN 6535

HA HE



ドリル深さ  
Drill depth

## 5 x D

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

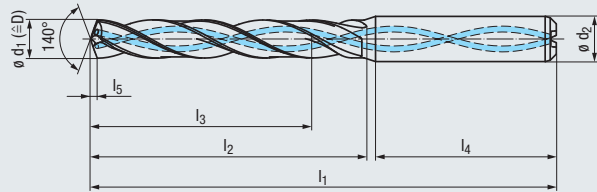
**K 1.1-4.2**

$\emptyset d_1$ m7	タップ Taps	転造タップ Cold-forming taps						$\emptyset d_2$ h6	EF-Drill GG-5xD	EF-Drill GG-5xD
			$l_1$	$l_2$	$l_3$	$l_4$	$l_5$		HA	HE
10,60	MJ12x1,5	M11x1	118	71	56	45	2,7	12	TA212444.1060	TA512444.1060
10,70		M11x0,75	118	71	56	45	2,7	12	TA212444.1070	TA512444.1070
10,80	M12x1,25 / 1/2-13		118	71	56	45	2,7	12	TA212444.1080	TA512444.1080
10,90	MJ12x1,25		118	71	56	45	2,7	12	TA212444.1090	TA512444.1090
11,00	M12x1		118	71	56	45	2,8	12	TA212444.1100	TA512444.1100
11,10	MJ12x1		118	71	56	45	2,8	12	TA212444.1110	TA512444.1110
11,20	M12x0,75	M12 (GAL)	118	71	56	45	2,8	12	TA212444.1120	TA512444.1120
11,25		M12	118	71	56	45	2,8	12	TA212444.1125	TA512444.1125
11,30		M12x1,5 (GAL)	118	71	56	45	2,8	12	TA212444.1130	TA512444.1130
11,35		M12x1,5	118	71	56	45	2,8	12	TA212444.1135	TA512444.1135
11,40		M12x1,25 (GAL)	118	71	56	45	2,8	12	TA212444.1140	TA512444.1140
11,45		M12x1,25	118	71	56	45	2,9	12	TA212444.1145	TA512444.1145
11,50	1/2-20		118	71	56	45	2,9	12	TA212444.1150	TA512444.1150
11,60		M12x1	118	71	56	45	2,9	12	TA212444.1160	TA512444.1160
11,70		M12x0,75	118	71	56	45	2,9	12	TA212444.1170	TA512444.1170
11,80	G1/4	1/2-13	118	71	56	45	2,9	12	TA212444.1180	TA512444.1180
11,90			118	71	56	45	3,0	12	TA212444.1190	TA512444.1190
12,00	M14		118	71	56	45	3,0	12	TA212444.1200	TA512444.1200
12,20	9/16-12		124	77	60	45	3,0	14	TA212444.1220	TA512444.1220
12,30			124	77	60	45	3,1	14	TA212444.1230	TA512444.1230
12,50	M14x1,5	G1/4 (GAL)	124	77	60	45	3,1	14	TA212444.1250	TA512444.1250
12,60	MJ14x1,5	M13x1	124	77	60	45	3,1	14	TA212444.1260	TA512444.1260
12,70		M13x0,75	124	77	60	45	3,2	14	TA212444.1270	TA512444.1270
12,80	M14x1,25		124	77	60	45	3,2	14	TA212444.1280	TA512444.1280
12,90	MJ14x1,25 / 9/16-18		124	77	60	45	3,2	14	TA212444.1290	TA512444.1290
13,00	M14x1		124	77	60	45	3,2	14	TA212444.1300	TA512444.1300
13,10	MJ14x1	M14	124	77	60	45	3,3	14	TA212444.1310	TA512444.1310
13,20	M14x0,75		124	77	60	45	3,3	14	TA212444.1320	TA512444.1320
13,30		9/16-12	124	77	60	45	3,3	14	TA212444.1330	TA512444.1330
13,35		M14x1,5	124	77	60	45	3,3	14	TA212444.1335	TA512444.1335
13,45		M14x1,25	124	77	60	45	3,4	14	TA212444.1345	TA512444.1345
13,50	5/8-11		124	77	60	45	3,4	14	TA212444.1350	TA512444.1350
13,60	MJ15x1,5	M14x1 / 9/16-18 (GAL)	124	77	60	45	3,4	14	TA212444.1360	TA512444.1360
13,70		M14x0,75	124	77	60	45	3,4	14	TA212444.1370	TA512444.1370
13,80			124	77	60	45	3,4	14	TA212444.1380	TA512444.1380
14,00	M16 / M15x1		124	77	60	45	3,5	14	TA212444.1400	TA512444.1400
14,10	MJ15x1		133	83	63	48	3,5	16	TA212444.1410	TA512444.1410
14,30			133	83	63	48	3,6	16	TA212444.1430	TA512444.1430
14,40			133	83	63	48	3,6	16	TA212444.1440	TA512444.1440
14,50	M16x1,5 / 5/8-18		133	83	63	48	3,6	16	TA212444.1450	TA512444.1450
14,60	MJ16x1,5	M15x1	133	83	63	48	3,6	16	TA212444.1460	TA512444.1460
14,70		M15x0,75	133	83	63	48	3,7	16	TA212444.1470	TA512444.1470
14,80		5/8-11	133	83	63	48	3,7	16	TA212444.1480	TA512444.1480
15,00	M16x1		133	83	63	48	3,7	16	TA212444.1500	TA512444.1500
15,10	MJ16x1	M16	133	83	63	48	3,8	16	TA212444.1510	TA512444.1510
15,35		M16x1,5	133	83	63	48	3,8	16	TA212444.1535	TA512444.1535
15,50	M18		133	83	63	48	3,9	16	TA212444.1550	TA512444.1550
15,60		M16x1	133	83	63	48	3,9	16	TA212444.1560	TA512444.1560
16,00	M18x2		133	83	63	48	4,0	16	TA212444.1600	TA512444.1600

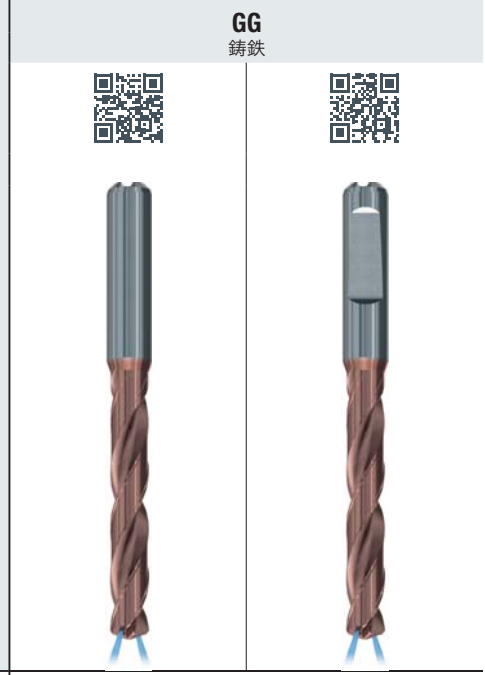
**EF-Drill-GG**

鋳鉄の加工に  
For the machining of cast materials

**5xD** ロング  
Long design



**超硬** TIALN  
**DIN 6537 L** R30  
**Z2** 4FF  
**140°** IT9-IT10  
**DIN 6535**  
HA HE



- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GG**
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D**
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

ドリル深さ  
Drill depth

**5 x D**

アプリケーション – 被削材  
Applications – material ▶▶ 14

**K 1.1-4.2**

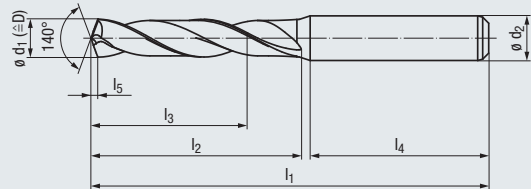
∅ d <sub>1</sub> m7	タップ Taps	転造タップ Cold-forming taps						∅ d <sub>2</sub> h6	EF-Drill GG-5xD	EF-Drill GG-5xD
			l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>		HA	HE
<b>16,50</b>	M18x1,5 / 3/4-10		143	93	71	48	4,1	18	<b>TA212444.1650</b>	<b>TA512444.1650</b>
<b>17,00</b>	M18x1		143	93	71	48	4,2	18	<b>TA212444.1700</b>	<b>TA512444.1700</b>
<b>17,50</b>	M20 / 3/4-16		143	93	71	48	4,3	18	<b>TA212444.1750</b>	<b>TA512444.1750</b>
<b>17,60</b>		M18x1	143	93	71	48	4,4	18	<b>TA212444.1760</b>	<b>TA512444.1760</b>
<b>18,00</b>	M20x2		143	93	71	48	4,5	18	<b>TA212444.1800</b>	<b>TA512444.1800</b>
<b>18,50</b>	M20x1,5		153	101	77	50	4,6	20	<b>TA212444.1850</b>	<b>TA512444.1850</b>
<b>18,85</b>		M20	153	101	77	50	4,7	20	<b>TA212444.1885</b>	<b>TA512444.1885</b>
<b>19,00</b>	M20x1 / G1/2		153	101	77	50	4,7	20	<b>TA212444.1900</b>	<b>TA512444.1900</b>
<b>19,35</b>		M20x1,5	153	101	77	50	4,8	20	<b>TA212444.1935</b>	<b>TA512444.1935</b>
<b>19,50</b>	M22 / 7/8-9		153	101	77	50	4,8	20	<b>TA212444.1950</b>	<b>TA512444.1950</b>
<b>19,60</b>		M20x1	153	101	77	50	4,9	20	<b>TA212444.1960</b>	<b>TA512444.1960</b>
<b>20,00</b>	M22x2		153	101	77	50	5,0	20	<b>TA212444.2000</b>	<b>TA512444.2000</b>

- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

**EF-Drill-HCUT**

**HRC50-67** の高硬度鋼の加工に  
For the machining of hardened steels  
with a hardness of 50-67 HRC

**3 x D** ショート  
Short design



**超硬** TIALN  
DIN 6537 K R30  
Z2 2FF  
140° IT9-IT10  
DIN 6535  
HA

**HCUT**  
高硬度鋼

ドリル深さ  
Drill depth

**3 x D**

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

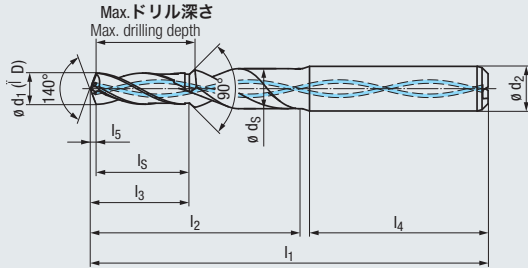
H 1.1-1.5

ø d <sub>1</sub> m7	HCUT-タップ HCUT Taps	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	l <sub>5</sub>	ø d <sub>2</sub> h6	EF-Drill HCUT-3xD
								HA
2,55	M3	57	16	11	36	0,5	6	TA107725.0255
3,00		62	20	14	36	0,6	6	TA107725.0300
3,40	M4	62	20	14	36	0,7	6	TA107725.0340
3,50		62	20	14	36	0,7	6	TA107725.0350
4,00		66	24	17	36	0,8	6	TA107725.0400
4,30	M5	66	24	17	36	0,8	6	TA107725.0430
4,50		66	24	17	36	0,9	6	TA107725.0450
5,00		66	28	20	36	1,0	6	TA107725.0500
5,10	M6	66	28	20	36	1,0	6	TA107725.0510
5,50		66	28	20	36	1,1	6	TA107725.0550
6,00		66	28	20	36	1,1	6	TA107725.0600
6,50		79	34	24	36	1,2	8	TA107725.0650
6,90	M8	79	34	24	36	1,3	8	TA107725.0690
7,00		79	34	24	36	1,3	8	TA107725.0700
7,10	M8 x 1	79	41	29	36	1,3	8	TA107725.0710
7,50		79	41	29	36	1,4	8	TA107725.0750
8,00		79	41	29	36	1,5	8	TA107725.0800
8,50		89	47	35	40	1,6	10	TA107725.0850
8,60	M10	89	47	35	40	1,6	10	TA107725.0860
8,80	G 1/8	89	47	35	40	1,7	10	TA107725.0880
9,00		89	47	35	40	1,7	10	TA107725.0900
9,10	M10 x 1	89	47	35	40	1,7	10	TA107725.0910
9,50		89	47	35	40	1,8	10	TA107725.0950
10,00		89	47	35	40	1,9	10	TA107725.1000
10,40	M12	102	55	40	45	1,9	12	TA107725.1040
10,50		102	55	40	45	2,0	12	TA107725.1050
10,60	M12 x 1,5	102	55	40	45	2,0	12	TA107725.1060
11,00		102	55	40	45	2,1	12	TA107725.1100
11,50		102	55	40	45	2,1	12	TA107725.1150
11,90	G 1/4	102	55	40	45	2,2	12	TA107725.1190
12,00		102	55	40	45	2,2	12	TA107725.1200
12,60	M14 x 1,5	107	60	43	45	2,3	14	TA107725.1260
14,20	M16	115	65	45	48	2,6	16	TA107725.1420
14,60	M16 x 1,5	115	65	45	48	2,7	16	TA107725.1460

**EF-Drill C-STEEL**

各種ステップ長のチャンファーク付き  
Variable step length in millimeter steps

**2 - 3,5 x D**



超硬

TIALN

STEEL  
鋼



≈ DIN  
6537 K

Z2

4FF



140°



DIN 6535



ドリル深さ  
Drill depth

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

**2 - 3,5 x D**

P	1.1-5.1	M	1.1
K	1.1-4.2	N	1.1-1.5
N	2.1-2.8	H	1.1-1.2

ø d1 m7	タップ Taps	転造タップ Cold-forming taps	l3			ls			ø d2 h6	EF-Drill C STEEL-2-3,5xD  HA					
			2 x D min.	3,5 x D max.	l4	ls	2 x D min.	3,5 x D max.							
2,80		M3	4	57	17	6,6	-	10,6	36	0,6	6	-	10	6	TG203344.028006 - TG203344.028010
2,90	M3,5	#5-40	4	57	18	6,6	-	10,6	36	0,6	6	-	10	6	TG203344.029006 - TG203344.029010
3,25		M3,5	5	62	24	7,7	-	11,7	36	0,6	7	-	11	6	TG203344.032507 - TG203344.032511
3,30	M4	M3,5x0,5	5	62	24	7,7	-	12,7	36	0,7	7	-	12	6	TG203344.033007 - TG203344.033012
3,70	M4,5	M4	5	62	24	7,8	-	13,8	36	0,7	7	-	13	6	TG203344.037007 - TG203344.037013
4,20	M5 / M5x0,75	M4,5	6	66	29	8,9	-	15,9	36	0,8	8	-	15	6	TG203344.042008 - TG203344.042015
4,65		M5	6	66	29	9,9	-	16,9	36	0,9	9	-	16	6	TG203344.046509 - TG203344.046516
5,00	M6	#12-24	7	79	40	11,0	-	19,0	36	1,0	10	-	18	8	TG203344.050010 - TG203344.050018
5,60	MJ6x0,5	M6	7	79	40	12,1	-	21,1	36	1,1	11	-	20	8	TG203344.056011 - TG203344.056020
6,00	M7		8	79	42	13,2	-	22,2	36	1,1	12	-	21	8	TG203344.060012 - TG203344.060021
6,60	5/16-18	M7	8	89	45	14,3	-	24,3	40	1,3	13	-	23	10	TG203344.066013 - TG203344.066023
6,80	M8 / G1/16	M7x0,5	9	89	46	15,4	-	25,4	40	1,3	14	-	24	10	TG203344.068014 - TG203344.068024
7,00	M8x1		9	89	46	15,4	-	26,4	40	1,3	14	-	25	10	TG203344.070014 - TG203344.070025
7,45		M8 / 5/16-24	9	89	46	16,5	-	27,5	40	1,4	15	-	26	10	TG203344.074515 - TG203344.074526
7,60		M8x1	9	89	46	16,5	-	28,5	40	1,4	15	-	27	10	TG203344.076015 - TG203344.076027
7,80	M9	M8x0,5	10	89	48	17,5	-	28,5	40	1,5	16	-	27	10	TG203344.078016 - TG203344.078027
8,45		M9	12	102	56	18,7	-	31,7	45	1,6	17	-	30	12	TG203344.084517 - TG203344.084530
8,50	M10 / M9x0,5 / 3/8-24		12	102	56	18,7	-	31,7	45	1,6	17	-	30	12	TG203344.085017 - TG203344.085030
9,00	M10x1	3/8-24 (GAL)	12	102	56	19,8	-	33,8	45	1,7	18	-	32	12	TG203344.090018 - TG203344.090032
9,35	MJ10x0,75	M10	12	102	56	20,8	-	34,8	45	1,8	19	-	33	12	TG203344.093519 - TG203344.093533
9,50	M11 / M10x0,5		12	102	56	20,9	-	34,9	45	1,8	19	-	33	12	TG203344.095019 - TG203344.095033
9,60	MJ10x0,5 / MJ11x1,5	M10x1	12	102	56	20,9	-	35,9	45	1,8	19	-	34	12	TG203344.096019 - TG203344.096034
10,20	M12 / M11x0,75	7/16-14 (GAL)	14	107	61	22,0	-	38,0	45	1,9	20	-	36	14	TG203344.102020 - TG203344.102036
10,35	MJ11x0,75	M11	14	107	61	23,0	-	38,0	45	1,9	21	-	36	14	TG203344.103521 - TG203344.103536
10,50	M12x1,5	7/16-20 (GAL)	14	107	61	23,1	-	39,1	45	2,0	21	-	37	14	TG203344.105021 - TG203344.105037
11,25		M12	14	107	61	25,2	-	41,2	45	2,1	23	-	39	14	TG203344.112523 - TG203344.112539
11,35		M12x1,5	14	107	61	25,2	-	42,2	45	2,1	23	-	40	14	TG203344.113523 - TG203344.113540
12,00	M14		16	115	66	26,4	-	44,4	48	2,2	24	-	42	16	TG203344.120024 - TG203344.120042
12,50	M14x1,5	G1/4 (GAL)	16	115	66	27,4	-	46,4	48	2,3	25	-	44	16	TG203344.125025 - TG203344.125044
13,10	MJ14x1	M14	16	115	66	28,6	-	48,6	48	2,4	26	-	46	16	TG203344.131026 - TG203344.131046
13,35		M14x1,5	16	115	66	29,6	-	49,6	48	2,5	27	-	47	16	TG203344.133527 - TG203344.133547
14,00	M16 / M15x1		18	123	74	30,7	-	51,7	48	2,6	28	-	49	18	TG203344.140028 - TG203344.140049
14,50	M16x1,5 / 5/8-18		18	123	74	31,8	-	53,8	48	2,7	29	-	51	18	TG203344.145029 - TG203344.145051
15,10	MJ16x1	M16	18	123	74	32,9	-	55,9	48	2,8	30	-	53	18	TG203344.151030 - TG203344.151053
15,35		M16x1,5	18	123	74	34,0	-	57,0	48	2,8	31	-	54	18	TG203344.153531 - TG203344.153554
15,50	M18		20	131	80	34,0	-	57,0	50	2,9	31	-	54	20	TG203344.155031 - TG203344.155054

ご注文例 · Ordering example:

**TG203344.0280 07**

ドリル径 d1 = 2,80 mm · Drill diameter d1 = 2,80 mm

ステップ長さ ls = 7 mm · Step length ls = 7 mm

- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör  
Accessories

### NC SpotDrill-142°

ポイントアングル ≤ 140° のドリル用スポットドリル  
Spot drilling for tools with a point angle ≤ 140°

超硬

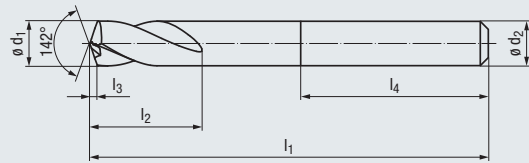
TIALN

Z2



DIN 6535

HA



ドリル深さ  
Point angle

**142°**

アプリケーション – 被削材  
Applications – material ▶▶ 14

<b>P</b> 1.1-5.1	<b>M</b> 1.1-4.1	<b>K</b> 1.1-4.2
<b>N</b> 1.1-1.5	<b>N</b> 2.1-2.8	<b>N</b> 5.1
<b>S</b> 1.2-1.3	<b>S</b> 2.2, 2.4, 2.6	<b>H</b> 1.1

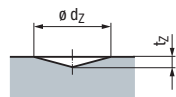
∅ d <sub>1</sub> h6	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	l <sub>4</sub>	∅ d <sub>2</sub> h6
3,00	51	13	0,52	28	3
4,00	57	19	0,69	28	4
5,00	57	19	0,86	30	5
6,00	57	19	1,03	36	6
8,00	70	25	1,38	36	8
10,00	73	25	1,72	40	10
12,00	74	25	2,07	45	12
16,00	102	25	2,75	48	16

NC SpotDrill  
142°

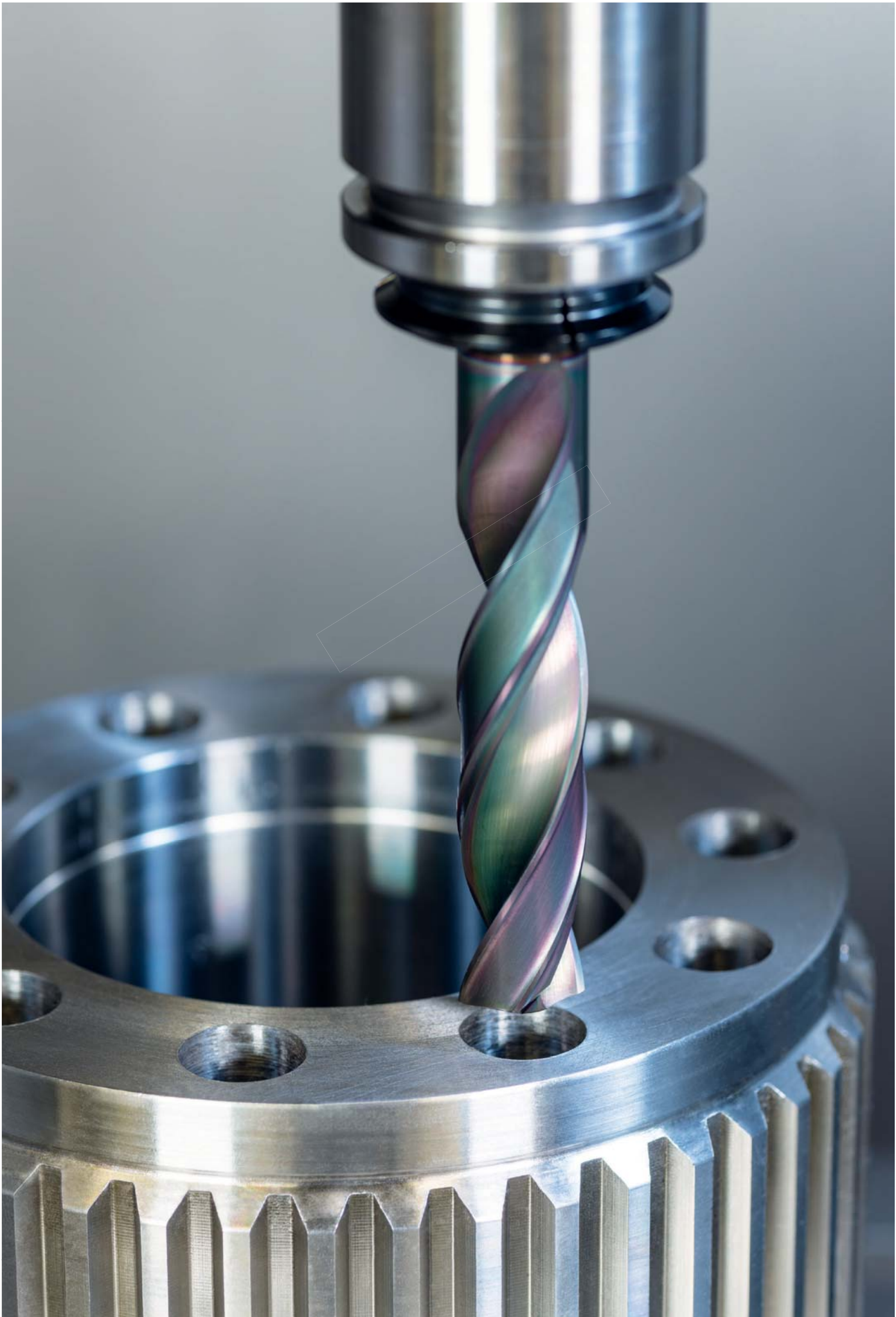
HA

TN103344.0300
TN103344.0400
TN103344.0500
TN103344.0600
TN103344.0800
TN103344.1000
TN103344.1200
TN103344.1600

狙いのセンタリング径 d<sub>Z</sub> を確保するためのセンタリング深さ t<sub>Z</sub> の計算式  
Calculation of the drilling depth t<sub>Z</sub> based on the desired spot drilling diameter d<sub>Z</sub>



$$t_z = \tan \left( 90 - \frac{142}{2} \right) \times \frac{d_z}{2}$$



Product  
Finder

$v_c / f$

BASIC

STEEL

INOX

GC

HCUT

SpotDrill

Zubehör  
Accessories

3 x D

5 x D

6 x D

8 x D

12 x D

2-3,5 x D



Product Finder

v<sub>c</sub> / f

BASIC

STEEL

INOX

GG

HCUT

SpotDrill

Zubehör  
Accessories

3 x D

5 x D

6 x D

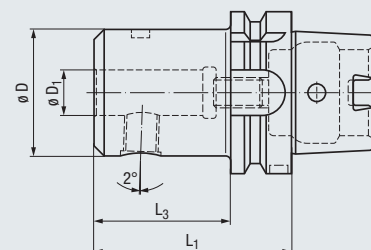
8 x D

12 x D

2-3,5 x D

# HSK-A

## DIN 69893-1



**DIN 6535HE**  
ウィッスルノッチ  
シャンク用

For straight shanks  
acc. DIN 6535 HE



	ø D <sub>1</sub>	ø D	L <sub>3</sub>	L <sub>1</sub>	シャンクサイズ Shank size	
	<b>6</b>	25	54	80	HSK-A63	<b>TCWNHS63.060800</b>
	<b>8</b>	28	54	80	HSK-A63	<b>TCWNHS63.080800</b>
	<b>10</b>	35	54	80	HSK-A63	<b>TCWNHS63.100800</b>
	<b>12</b>	42	64	90	HSK-A63	<b>TCWNHS63.120900</b>
	<b>14</b>	44	64	90	HSK-A63	<b>TCWNHS63.140900</b>
	<b>16</b>	48	74	100	HSK-A63	<b>TCWNHS63.161000</b>
	<b>18</b>	50	74	100	HSK-A63	<b>TCWNHS63.181000</b>
	<b>20</b>	52	74	100	HSK-A63	<b>TCWNHS63.201000</b>
	<b>25</b>	65	84	110	HSK-A63	<b>TCWNHS63.251100</b>
	<b>32</b>	72	84	110	HSK-A63	<b>TCWNHS63.321100</b>



クーラントチューブとレンチ  
Coolant tubes and wrenches

▶▶ 742 - 743

### 締め付けスクリュー

Allen clamping screws



サイズ For ø D <sub>1</sub>	寸法 Dimension	
<b>6</b>	M 6 x 10 x SW 3	<b>TWA01001.22010</b>
<b>8</b>	M 8 x 10 x SW 4	<b>TWA01001.25010</b>
<b>10</b>	M10 x 12 x SW 5	<b>TWA01001.27012</b>
<b>12 - 14</b>	M12 x 16 x SW 6	<b>TWA01001.30016</b>
<b>16 - 18</b>	M14 x 16 x SW 6	<b>TWA01001.33016</b>
<b>20</b>	M16 x 16 x SW 8	<b>TWA01001.35016</b>
<b>25</b>	M18 x 20 x SW 10	<b>TWA01001.39020</b>
<b>32</b>	M20 x 20 x SW 10	<b>TWA01001.42020</b>

### T型ハンドル レンチ

T-handle wrench  
for clamping screws



サイズ For ø D <sub>1</sub>	寸法 Dimension	
<b>6</b>	SW 3 x 100	<b>TWB03002.03010</b>
<b>8</b>	SW 4 x 100	<b>TWB03002.04010</b>
<b>10</b>	SW 5 x 150	<b>TWB03002.05015</b>
<b>12 - 16</b>	SW 6 x 150	<b>TWB03002.06015</b>
<b>18 - 20</b>	SW 8 x 150	<b>TWB03002.08015</b>
<b>25 - 32</b>	SW10 x 200	<b>TWB03002.10020</b>

### 調整スクリュー

Allen adjusting screws



サイズ For ø D <sub>1</sub>	寸法 Dimension	
<b>6</b>	M 5 x 16 x SW 2,5	<b>TWA02001.20016</b>
<b>8</b>	M 6 x 16 x SW 3	<b>TWA02001.22016</b>
<b>10</b>	M 8 x 16 x SW 4	<b>TWA02001.25016</b>
<b>12 - 14</b>	M10 x 16 x SW 5	<b>TWA02001.27016</b>
<b>16 - 18</b>	M12 x 16 x SW 6	<b>TWA02001.30016</b>
<b>20 - 32</b>	M16 x 20 x SW 6	<b>TWA02001.35020</b>

### 調整スクリュー用レンチ

Allen wrench  
for adjusting screws

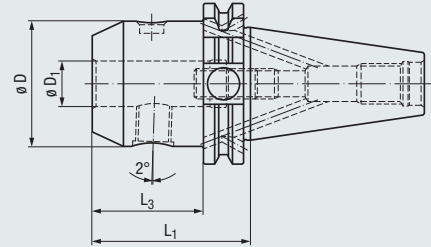


サイズ For ø D <sub>1</sub>	寸法 Dimension	
<b>6</b>	SW 2,5	<b>TWB03001.02500</b>
<b>8</b>	SW 3	<b>TWB03001.03000</b>
<b>10</b>	SW 4	<b>TWB03001.04000</b>
<b>12 - 14</b>	SW 5	<b>TWB03001.05000</b>
<b>16 - 32</b>	SW 6	<b>TWB03001.06000</b>



**SK**

DIN ISO 7388-1 AD/AF



DIN 6535HE

ウィッスルノッチ  
シャンク用

For straight shanks  
acc. DIN 6535 HE

Product  
Finder

$v_c / f$

BASIC

STEEL

INOX

GU

HCUT

SpotDrill

Zubehör  
Accessories

3 x D

5 x D

6 x D

8 x D

12 x D

2-3,5 x D



$\varnothing D_1$	$\varnothing D$	$L_3$	$L_1$	シャンクサイズ Shank size	TCWNSK40.060500
6	25	31	50	SK40	TCWNSK40.060500
8	28	31	50	SK40	TCWNSK40.080500
10	35	31	50	SK40	TCWNSK40.100500
12	42	31	50	SK40	TCWNSK40.120500
14	44	31	50	SK40	TCWNSK40.140500
16	48	44	63	SK40	TCWNSK40.160630
18	50	44	63	SK40	TCWNSK40.180630
20	52	44	63	SK40	TCWNSK40.200630
25	65	81	100	SK40	TCWNSK40.251000
32	72	81	100	SK40	TCWNSK40.321000

$\varnothing D_1$	$\varnothing D$	$L_3$	$L_1$	シャンクサイズ Shank size	TCWNSK50.060630
6	25	44	63	SK50	TCWNSK50.060630
8	28	44	63	SK50	TCWNSK50.080630
10	35	44	63	SK50	TCWNSK50.100630
12	42	44	63	SK50	TCWNSK50.120630
14	44	44	63	SK50	TCWNSK50.140630
16	48	44	63	SK50	TCWNSK50.160630
18	50	44	63	SK50	TCWNSK50.180630
20	52	44	63	SK50	TCWNSK50.200630
25	65	61	80	SK50	TCWNSK50.250800
32	72	81	100	SK50	TCWNSK50.321000



プルスタッド  
Pull studs for ISO tapers

▶▶ 70

フランジ穴用スクリーブプラグ  
Internal coolant screw plug



サイズ For	寸法 Dimension	TWA04001.20005
SK 40	M5 x 5 x SW 2,5	TWA04001.20005
SK 50	M8 x 6 x SW 4	TWA04001.25006

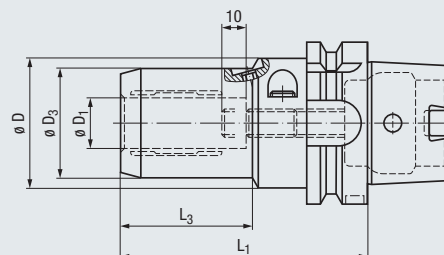
- Product Finder
- v<sub>c</sub> / f
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör  
Accessories

# HSK-A

## DIN 69893-1



工具長調整機能付き  
With tool length adjustment  
(radial operation)



**DIN 6535 HA** For straight shanks  
円筒シャンク用 acc. DIN 6535 HA



	$\varnothing D_1$	$\varnothing D_3$	$\varnothing D$	$L_3$	$L_1$	シャンクサイズ Shank size	
3 x D	6	25,7	50	33	80	HSK-A63	TCHDHS63.060800
5 x D	8	27,7	50	34	80	HSK-A63	TCHDHS63.080800
6 x D	10	29,7	50	39	85	HSK-A63	TCHDHS63.100850
8 x D	12	31,6	50	45	90	HSK-A63	TCHDHS63.120900
12 x D	14	33,6	50	46	90	HSK-A63	TCHDHS63.140900
2-3,5 x D	16	37,6	50	52	95	HSK-A63	TCHDHS63.160950
	18	39,6	50	52	95	HSK-A63	TCHDHS63.180950
	20	41,6	50	58	100	HSK-A63	TCHDHS63.201000
	25	49,6	63	51	120	HSK-A63	TCHDHS63.251200
	32	59,8	63	59	125	HSK-A63	TCHDHS63.321250



クーラントチューブとレンチ  
Coolant tubes and wrenches

▶▶ 742 - 743

### 締め付けスクリュー

Allen clamping screws



サイズ For $\varnothing D_1$	寸法 Dimension	
6 - 20	M10 x 12 x SW5	TWA01002.27012
25 - 32	M14 x 16 x SW6	TWA01002.33016



### T型ハンドル レンチ

T-handle wrench  
for clamping screws



サイズ For $\varnothing D_1$	寸法 Dimension	
6 - 20	SW 5 x 150	TWB03002.05015
25 - 32	SW 6 x 150	TWB03002.06015



### サービスオプション

- クランプシステムに関する部品交換
- 拡張代の調整
- 伝達トルクのチェック
- 同心度のチェック

### Service options

- Replace spare parts of the clamping system
- Adjust expansion rate
- Check torque
- Check concentricity

### 調整スクリュー用レンチ

Allen wrench  
for adjusting screws



サイズ For $\varnothing D_1$	寸法 Dimension	
6 - 12	SW 2,5	TWB03001.02500
14 - 20	SW 3	TWB03001.03000
25 - 32	SW 4	TWB03001.04000



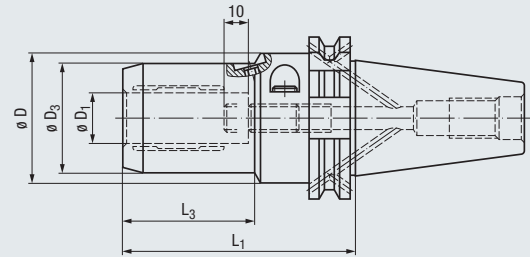
**SK**

DIN ISO 7388-1 AD/AF



工具長調整機能付き

With tool length adjustment  
(radial operation)



DIN 6535 HA For straight shanks  
円筒シャンク用 acc. DIN 6535 HA

Product Finder

$v_c / f$

BASIC

STEEL

INOX

G

HCUT

SpotDrill

Zubehör  
Accessories

3 x D

5 x D

6 x D

8 x D

12 x D

2-3,5 x D



$\varnothing D_1$	$\varnothing D_3$	$\varnothing D$	$L_3$	$L_1$	シャンクサイズ Shank size	QR
6	25,7	50	33	72	SK 40	TCHDSK40.060720
8	27,7	50	34	72	SK 40	TCHDSK40.080720
10	29,7	50	39	77	SK 40	TCHDSK40.100770
12	31,6	50	40	77	SK 40	TCHDSK40.120770
14	33,6	50	46	82	SK 40	TCHDSK40.140820
16	37,6	50	47	82	SK 40	TCHDSK40.160820
18	39,6	50	47	82	SK 40	TCHDSK40.180820
20	41,6	50	48	82	SK 40	TCHDSK40.200820
25	49,6	63	51	117	SK 40	TCHDSK40.251170
32	59,9	63	59	117	SK 40	TCHDSK40.321170

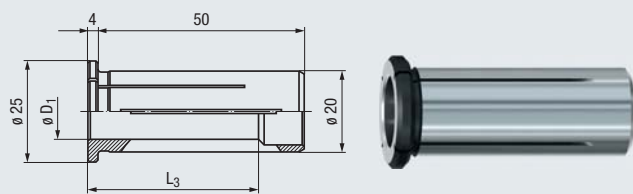
$\varnothing D_1$	$\varnothing D_3$	$\varnothing D$	$L_3$	$L_1$	シャンクサイズ Shank size	QR
20	41,6	50	48	82	SK 50	TCHDSK50.200820
25	49,6	63	51	117	SK 50	TCHDSK50.251170
32	59,9	63	59	117	SK 50	TCHDSK50.321170



プルスタッド  
Pull studs for ISO tapers

▶ 70

$\varnothing 20$  mm リダクションスリーブ  
Reduction sleeves dia. 20 mm



$\varnothing D_1$	$L_3$	QR
3	28	TCHDRD20.030500
6	36	TCHDRD20.060500
8	37	TCHDRD20.080500
10	40	TCHDRD20.100500
12	45	TCHDRD20.120500
14	45	TCHDRD20.140500
16	48	TCHDRD20.160500
18	48	TCHDRD20.180500

フランジ穴用スクリーブプラグ  
Internal coolant screw plug



サイズ For	寸法 Dimension	QR
SK 40	M5 x 5 x SW 2,5	TWA04001.20005
SK 50	M8 x 6 x SW 4	TWA04001.25006

- Product Finder
- $v_c / f$
- BASIC
- STEEL
- INOX
- GG
- HCUT
- SpotDrill
- Zubehör  
Accessories
- 3 x D
- 5 x D
- 6 x D
- 8 x D
- 12 x D
- 2-3,5 x D

**DIN ISO 7388-1 テーパー用**  
For ISO taper shanks acc. DIN ISO 7388-1



	DIN ISO 7388-3 Form AD	DIN ISO 7388-3 Form AF	DIN ISO 7388-3 Form UD
テーパーサイズ For ISO taper size			
G			
SW			
<b>SK 40</b>	<b>TWA03001.04000</b>	<b>TWA03002.04000</b>	<b>TWA03003.04000</b>
<b>SK 50</b>	<b>TWA03001.05000</b>	<b>TWA03002.05000</b>	<b>TWA03003.05000</b>

