

B

B400	194
B411	198
B441	196
B442	199
B451	197
B452	200
B460	189
B461	191
B462	193
B463	188
B464	190
B465	192
B481	195

G

G400	201
G405	202



185 - 256

B

B100	210
B101	229
B121	231
B156	222
B157	226
B161	228
B162	230
B170	223
B180	219
B181	221
B191	220
B301	215
B334	212

B335	213
B341	211
B500	218
B901	225
B903	216
B951	214
B952	217
B953	227
B954	232
B955	233
B956	234
B957	235

G

G125	253	G154	239
G126	254	G155	240
G127	255	G170	250
G129	241	G171	250
G131	237	G236	246
G132	248	G237	247
G135	236	G314	252
G136	244	G335	236
G137	238	G336	245
G138	249	G338	249
G139	246	G349	242
G142	243	G560	245
G149	242	M138	251

	B463	B460	B464	B461	B465	B462	B400	B481	B441	B451	B411	B442	B452		G400	G405
																
	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM		HM	HM
																
																
																
																
	B	A	B	A	B	A	B	B	A	A	B	A	A			
	H7	H7	H7	H7	H7	H7	H7	8.95-5.5 8. +0.08 9.0-12 9. +0.08	H7	H7	H7	H7	H7		90°	90°
																
	3.97 - 20.00	3.97 - 20.00	3.97 - 20.00	3.97 - 20.00	3.97 - 20.00	3.97 - 20.00	1.00 - 20.00	0.98 - 12.05	10.00 - 20.00	8.00 - 20.00	5.00 - 30.00	10.00 - 20.00	8.00 - 30.00		6.30 - 31.00	8.30 - 12.40
																
	2008.09	2008.09	2008.09	2008.09	2008.09	2008.09									2008.09	2008.09
	188	189	190	191	192	193	194	195	196	197	198	199	200		201	202
1.1	■30D	■30D	■185F	■185F			■18B	■18B	■18B	■16B	■18B	■18B	■16B		■30F	■30F
1.2	■30D	■30D	■185F	■185F			■18B	■18B	■18B	■16B	■18B	■18B	■16B		■25E	■25E
1.3	■30D	■30D	■185F	■185F			■14B	■14B	■14B	■12B	■14B	■14B	■12B		■20D	■20D
1.4	■25D	■25D	■160E	■160E			■14B	■14B	■14B	■12B	■14B	■14B	■12B		■15D	■15D
1.5	■20B	■20B	■140E	■140E			■10C	■10C	■10C	■8C	■10C	■10C	■8C		■10B	■10B
1.6	■15B	■15B	■120E	■120E			■10C	■10C	■10C	■8C	■10C	■10C	■8C		■6A	■6A
1.7																
1.8																
2.1					■40D	■40D									■8C	■8C
2.2					■40D	■40D									■6B	■6B
2.3					■30D	■30D									■4A	■4A
2.4					■30D	■30D										
3.1	■40D	■40D	■120F	■120F			■17D	■17D	■17D	■15D	■17D	■17D	■15D		■25F	■25F
3.2	■40D	■40D	■185F	■185F			■17D	■17D	■17D	■15D	■17D	■17D	■15D		■15D	■15D
3.3	■30D	■30D	■90F	■90F			■17D	■17D	■17D	■15D	■17D	■17D	■15D		■12C	■12C
3.4	■30D	■30D	■60F	■60F			■14D	■14D	■14D	■12D	■14D	■14D	■12D		■8C	■8C
4.1	■15B	■15B					■14C	■14C	■14C	■12C	■14C	■14C	■12C		■12C	■12C
4.2	■10A	■10A					■14C	■14C	■14C	■12C	■14C	■14C	■12C		■10A	■10A
4.3	■10A	■10A					■10B	■10B	■10B	■8B	■10B	■10B	■8B		■8A	■8A
5.1							■10C	■10C	■10C	■8C	■10C	■10C	■8C		■12C	■12C
5.2							■10B	■10B	■10B	■8B	■10B	■10B	■8B		■6B	■6B
5.3							■10B	■10B	■10B	■8B	■10B	■10B	■8B		■4A	■4A
6.1	■80E	■80E					■38E	■38E	■38E	■36E	■38E	■38E	■36E		■25D	■25D
6.2	■80D	■80D					■38E	■38E	■38E	■36E	■38E	■38E	■36E		■20F	■20F
6.3	■50D	■50D					■38E	■38E	■38E	■36E	■38E	■38E	■36E		■25F	■25F
6.4	■30D	■30D					■38D	■38D	■38D	■36D	■38D	■38D	■36D		■10D	■10D
7.1	■80D	■80D					■60D	■60D	■60D	■58D	■60D	■60D	■58D		■30G	■30G
7.2	■80D	■80D					■60D	■60D	■60D	■58D	■60D	■60D	■58D		■25F	■25F
7.3	■80D	■80D					■25D	■25D	■25D	■23D	■25D	■25D	■23D		■20F	■20F
7.4	■80D	■80D					■25D	■25D	■25D	■23D	■25D	■25D	■23D		■10F	■10F
8.1							■25C	■25C	■25C	■23C	■25C	■25C	■23C		■30G	■30G
8.2							■13C	■13C	■13C	■11C	■13C	■13C	■11C		■20G	■20G
8.3																
9.1																
10.1	■40B	■40B														

	Ø mm												
	1,5	2	3	5	8	10	12	16	20	25	30	40	50
A	0,045	0,055	0,078	0,100	0,150	0,170	0,185	0,220	0,250	0,280	0,320	0,390	0,440
B	0,055	0,072	0,110	0,150	0,180	0,210	0,240	0,280	0,310	0,360	0,400	0,500	0,550
C	0,065	0,085	0,135	0,185	0,220	0,260	0,285	0,335	0,390	0,440	0,480	0,600	0,680
D	0,080	0,110	0,160	0,200	0,270	0,320	0,360	0,410	0,470	0,540	0,600	0,730	0,850
E	0,100	0,140	0,180	0,250	0,350	0,390	0,430	0,500	0,530	0,640	0,750	0,910	1,100
mm/REV ± 15%													

	Ø mm									
	6	8	10	16	20	25	32	40	60	80
A	0.03	0.04	0.05	0.06	0.08	0.09	0.10	0.12	0.14	0.16
B	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20
C	0.05	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22
D	0.06	0.08	0.10	0.12	0.15	0.18	0.20	0.22	0.25	0.28
E	0.08	0.10	0.12	0.15	0.18	0.20	0.25	0.27	0.30	0.32
F	0.09	0.11	0.13	0.16	0.19	0.21	0.26	0.29	0.33	0.36
G	0.10	0.12	0.15	0.18	0.20	0.22	0.28	0.32	0.36	0.40
mm/N										

- Základní doporučení pro úběr materiálu při předvrtávání děr • Javaslat előfúrásnál alkalmazott eltávolítási rátára vonatkozóan • Podstawowe wskazówki dotyczące usuwania materiału przy wierceniu pod rozwiertak • Indicatii generale privind adaosul dupa pre-gaurire • Рекомендованные припуски для предварительного сверления отверстия
- splošna navodila za odvzem materiala pri predvrtanju

	Ø (mm)				
	3 - 5mm	5.1 - 10mm	10.1 - 20mm	20.1 - 30mm	> 30mm
1.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
1.2	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
1.3	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
1.4	0.1-0.2	0.2	0.2	0.3	0.3-0.4
1.5	0.1-0.2	0.2	0.2	0.3	0.3-0.4
1.6	0.1-0.2	0.2	0.2	0.3	0.3-0.4
1.7	0.1-0.2	0.2	0.2	0.3	0.3-0.4
1.8	0.1-0.2	0.2	0.2	0.3	0.3-0.4
2.1	0.1-0.2	0.2	0.2	0.3	0.3-0.4
2.2	0.1-0.2	0.2	0.2	0.3	0.3-0.4
2.3	0.1-0.2	0.2	0.2	0.3	0.3-0.4
2.4	0.1-0.2	0.2	0.2	0.3	0.3-0.4
3.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
3.2	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
3.3	0.1-0.2	0.2	0.3	0.4	0.5
3.4	0.1-0.2	0.2	0.3	0.4	0.5
4.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.3-0.4
4.2	0.1-0.2	0.2	0.2	0.3	0.3-0.4
4.3	0.1-0.2	0.2	0.2	0.3	0.3-0.4
5.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
5.2	0.1-0.2	0.2	0.2	0.3	0.3-0.4
5.3	0.1-0.2	0.2	0.2	0.3	0.3-0.4
6.1	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
6.2	0.1-0.2	0.2	0.2-0.3	0.3	0.3-0.4
6.3	0.1-0.2	0.2	0.2-0.3	0.3	0.3-0.4
6.4	0.1-0.2	0.2	0.2-0.3	0.3	0.3-0.4
7.1	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
7.2	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
7.3	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
7.4	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
8.1	0.1-0.2	0.3	0.4	0.4-0.5	0.5
8.2	0.1-0.2	0.2	0.2	0.3	0.3-0.4
8.3	0.1-0.2	0.2	0.2	0.3	0.3-0.4
9.1	0.1-0.2	0.2	0.2	0.3	0.3-0.4
10.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5

Pro stavitelné výstružníky nebo výstružníky s břitý zmenšete úběr materiálu o 30%. Pro výstružníky s rychlou šroubovici zvýšte o 50% / Állítható vagy penge dörszárak esetében csökkentse az előtolást 30%-kal. Csavarthornyú gépi dörszáraknál növelje 50%-kal / Dla rozwiertaków nastawnych zmniejsz usuwanie materiału o 30%, zostaw większy zapas. Dla rozwiertaków mocno skrętnych zwiększ o 50%, zostaw mniejszy zapas / Pentru alezoare reglabile sau cu lamele, reduceți adaosul cu 30%. Pentru alezoare cu elice pronunțată creșteți cu 50%. / Для регулируемых разверток снижение припуска на 30%. Для разверток с крутым спиральным зубом повышение на 50% / Nastavljiva povrtala ali povrtala na ploščico zmanjšaj odvzem materiala za 30%, pri povrtalih z večjim kotom vijačnice pa povečajte odvzem za 50%

- NC - přesný výstružník
- NC - Precíziós Dörzsár
- Rozvrtaki precyzyjne dla obrabiarek CNC
- Alezor de precizie pt NC
- Развертка для станков ЧПУ
- NC povrtalo precizno

NEW

2008.09



B463

Extremně nerovnoměrné členění / Rendkívül egyenlőtlen horonyszélesség / Bardzo nierówne rozstawienie / Divizare extrem de inegala / Неравномерный шаг / Extremno neenaka delitev



■	1.1	1.2	1.3	1.4	1.5	1.6	3.1	3.2	3.3	3.4		
●	4.1	4.2	4.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	10.1

d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Øh ₆	e-Code
3.97	75	12	39	4	6	B4633.97 ¹⁾
3.98	75	12	39	4	6	B4633.98 ¹⁾
3.99	75	12	39	4	6	B4633.99 ¹⁾
4.00	75	12	39	4	6	B4634.0
4.01	75	12	39	4	6	B4634.01 ¹⁾
4.02	75	12	39	4	6	B4634.02 ¹⁾
4.03	75	12	39	4	6	B4634.03 ¹⁾
4.50	75	12	39	4	6	B4634.5
4.97	75	12	39	4	6	B4634.97 ¹⁾
4.98	75	12	39	4	6	B4634.98 ¹⁾
4.99	75	12	39	4	6	B4634.99 ¹⁾
5.00	75	12	39	4	6	B4635.0
5.01	75	12	39	4	6	B4635.01 ¹⁾
5.02	75	12	39	4	6	B4635.02 ¹⁾
5.03	75	12	39	4	6	B4635.03 ¹⁾
5.50	75	12	39	4	6	B4635.5
5.97	75	12	39	4	6	B4635.97 ²⁾
5.98	75	12	39	4	6	B4635.98 ²⁾
5.99	75	12	39	4	6	B4635.99 ²⁾
6.00	75	12	39	4	6	B4636.0
6.01	75	12	39	4	6	B4636.01 ²⁾
6.02	75	12	39	4	6	B4636.02 ²⁾
6.03	75	12	39	4	6	B4636.03 ²⁾
6.50	100	16	64	6	8	B4636.5
7.00	100	16	64	6	8	B4637.0
7.50	100	16	64	6	8	B4637.5
7.97	100	16	64	6	8	B4637.97 ²⁾
7.98	100	16	64	6	8	B4637.98 ²⁾
7.99	100	16	64	6	8	B4637.99 ²⁾
8.00	100	16	64	6	8	B4638.0
8.01	100	16	64	6	8	B4638.01 ²⁾
8.02	100	16	64	6	8	B4638.02 ²⁾

d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Øh ₆	e-Code
8.03	100	16	64	6	8	B4638.03 ²⁾
8.50	100	20	60	6	10	B4638.5
9.00	100	20	60	6	10	B4639.0
9.50	120	20	80	6	10	B4639.5
9.97	120	20	80	6	10	B4639.97 ²⁾
9.98	120	20	80	6	10	B4639.98 ²⁾
9.99	120	20	80	6	10	B4639.99 ²⁾
10.00	120	20	80	6	10	B46310.0
10.01	120	20	80	6	10	B46310.01 ²⁾
10.02	120	20	80	6	10	B46310.02 ²⁾
10.03	120	20	80	6	10	B46310.03 ²⁾
10.50	120	20	75	6	12	B46310.5
11.00	120	20	75	6	12	B46311.0
11.50	120	20	75	6	12	B46311.5
11.97	120	20	75	6	12	B46311.97 ²⁾
11.98	120	20	75	6	12	B46311.98 ²⁾
11.99	120	20	75	6	12	B46311.99 ²⁾
12.00	120	20	75	6	12	B46312.0
12.01	120	20	75	6	12	B46312.01 ²⁾
12.02	120	20	75	6	12	B46312.02 ²⁾
12.03	120	20	75	6	12	B46312.03 ²⁾
13.00	130	22	85	6	14	B46313.0
14.00	130	22	85	6	14	B46314.0
15.00	130	22	82	6	16	B46315.0
16.00	150	25	102	6	16	B46316.0
17.00	150	25	102	6	18	B46317.0
18.00	150	25	102	6	18	B46318.0
19.00	150	25	100	6	20	B46319.0
20.00	150	25	100	6	20	B46320.0

¹⁾ Limit tolerance +0.0040 / Tűrés határ +0.0040 / Wymiar graniczny +0.0040 / Limitele campului de toleranta +0.0040 / Границы олей допусков +0.0040 / tolerančno območje +0.0040

²⁾ Limit tolerance +0.0050 / Tűrés határ +0.0050 / Wymiar graniczny +0.0050 / Limitele campului de toleranta +0.0050 / Границы олей допусков +0.0050 / tolerančno območje +0.0050

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- NC povrtalo precizno

NEW

2008.09



B460

Extrémně nerovnoměrné členění / Rendkívül egyenlőtlen horonyszélesség / Bardzo nierówne rozstawienie / Divizare extrem de inegala / Неравномерный шаг / Extremno neenaka delitev



■	1.1	1.2	1.3	1.4	1.5	1.6	3.1	3.2	3.3	3.4		
●	4.1	4.2	4.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	10.1

d ₁ Ø	l ₁	l ₂	l ₃		d ₂ Øh ₆	e-Code		d ₁ Ø	l ₁	l ₂	l ₃		d ₂ Øh ₆	e-Code	
mm	mm	mm	mm	z	mm			mm	mm	mm	mm	z	mm		
3.97	75	12	39	4	6	B4603.97	¹⁾	8.03	100	16	64	6	8	B4608.03	²⁾
3.98	75	12	39	4	6	B4603.98	¹⁾	8.50	100	20	60	6	10	B4608.5	
3.99	75	12	39	4	6	B4603.99	¹⁾	9.00	100	20	60	6	10	B4609.0	
4.00	75	12	39	4	6	B4604.0		9.50	120	20	80	6	10	B4609.5	
4.01	75	12	39	4	6	B4604.01	¹⁾	9.97	120	20	80	6	10	B4609.97	²⁾
4.02	75	12	39	4	6	B4604.02	¹⁾	9.98	120	20	80	6	10	B4609.98	²⁾
4.03	75	12	39	4	6	B4604.03	¹⁾	9.99	120	20	80	6	10	B4609.99	²⁾
4.50	75	12	39	4	6	B4604.5		10.00	120	20	80	6	10	B46010.0	
4.97	75	12	39	4	6	B4604.97	¹⁾	10.01	120	20	80	6	10	B46010.01	²⁾
4.98	75	12	39	4	6	B4604.98	¹⁾	10.02	120	20	80	6	10	B46010.02	²⁾
4.99	75	12	39	4	6	B4604.99	¹⁾	10.03	120	20	80	6	10	B46010.03	²⁾
5.00	75	12	39	4	6	B4605.0		10.50	120	20	75	6	12	B46010.5	
5.01	75	12	39	4	6	B4605.01	¹⁾	11.00	120	20	75	6	12	B46011.0	
5.02	75	12	39	4	6	B4605.02	¹⁾	11.50	120	20	75	6	12	B46011.5	
5.03	75	12	39	4	6	B4605.03	¹⁾	11.97	120	20	75	6	12	B46011.97	²⁾
5.50	75	12	39	4	6	B4605.5		11.98	120	20	75	6	12	B46011.98	²⁾
5.97	75	12	39	4	6	B4605.97	²⁾	11.99	120	20	75	6	12	B46011.99	²⁾
5.98	75	12	39	4	6	B4605.98	²⁾	12.00	120	20	75	6	12	B46012.0	
5.99	75	12	39	4	6	B4605.99	²⁾	12.01	120	20	75	6	12	B46012.01	²⁾
6.00	75	12	39	4	6	B4606.0		12.02	120	20	75	6	12	B46012.02	²⁾
6.01	75	12	39	4	6	B4606.01	²⁾	12.03	120	20	75	6	12	B46012.03	²⁾
6.02	75	12	39	4	6	B4606.02	²⁾	13.00	130	22	85	6	14	B46013.0	
6.03	75	12	39	4	6	B4606.03	²⁾	14.00	130	22	85	6	14	B46014.0	
6.50	100	16	64	6	8	B4606.5		15.00	130	22	82	6	16	B46015.0	
7.00	100	16	64	6	8	B4607.0		16.00	150	25	102	6	16	B46016.0	
7.50	100	16	64	6	8	B4607.5		17.00	150	25	102	6	18	B46017.0	
7.97	100	16	64	6	8	B4607.97	²⁾	18.00	150	25	102	6	18	B46018.0	
7.98	100	16	64	6	8	B4607.98	²⁾	19.00	150	25	100	6	20	B46019.0	
7.99	100	16	64	6	8	B4607.99	²⁾	20.00	150	25	100	6	20	B46020.0	
8.00	100	16	64	6	8	B4608.0									
8.01	100	16	64	6	8	B4608.01	²⁾								
8.02	100	16	64	6	8	B4608.02	²⁾								

¹⁾ Limit tolerance +0.0040 / Tűrés határ +0.0040 / Wymiar graniczny +0.0040 / Limitele campului de toleranta +0.0040 / Границы олей допусков +0.0040 / tolerančno območje +0.0040

²⁾ Limit tolerance +0.0050 / Tűrés határ +0.0050 / Wymiar graniczny +0.0050 / Limitele campului de toleranta +0.0050 / Границы олей допусков +0.0050 / tolerančno območje +0.0050

- NC - přesný výstružník
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- Alezor de precizie pt NC
- Развертка для станков ЧПУ
- NC povrtalo precizno

NEW

2008.09



B464

Extrémně nerovnoměrné členění / Rendkívül egyenlőtlen horonyszélesség / Bardzo nierówne rozstawienie / Divizare extrem de inegală / Неравномерный шаг / Extremno neenaka delitev



■ 1.1 1.2 1.3 1.4 1.5 1.6 3.1 3.2 3.3 3.4

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Ø _{h6} mm	e-Code
3.97	75	12	39	4	6	B4643.97 ¹⁾
3.98	75	12	39	4	6	B4643.98 ¹⁾
3.99	75	12	39	4	6	B4643.99 ¹⁾
4.00	75	12	39	4	6	B4644.0
4.01	75	12	39	4	6	B4644.01 ¹⁾
4.02	75	12	39	4	6	B4644.02 ¹⁾
4.03	75	12	39	4	6	B4644.03 ¹⁾
4.50	75	12	39	4	6	B4644.5
4.97	75	12	39	4	6	B4644.97 ¹⁾
4.98	75	12	39	4	6	B4644.98 ¹⁾
4.99	75	12	39	4	6	B4644.99 ¹⁾
5.00	75	12	39	4	6	B4645.0
5.01	75	12	39	4	6	B4645.01 ¹⁾
5.02	75	12	39	4	6	B4645.02 ¹⁾
5.03	75	12	39	4	6	B4645.03 ¹⁾
5.50	75	12	39	4	6	B4645.5
5.97	75	12	39	4	6	B4645.97 ²⁾
5.98	75	12	39	4	6	B4645.98 ²⁾
5.99	75	12	39	4	6	B4645.99 ²⁾
6.00	75	12	39	4	6	B4646.0
6.01	75	12	39	4	6	B4646.01 ²⁾
6.02	75	12	39	4	6	B4646.02 ²⁾
6.03	75	12	39	4	6	B4646.03 ²⁾
6.50	100	16	64	6	8	B4646.5
7.00	100	16	64	6	8	B4647.0
7.50	100	16	64	6	8	B4647.5
7.97	100	16	64	6	8	B4647.97 ²⁾
7.98	100	16	64	6	8	B4647.98 ²⁾
7.99	100	16	64	6	8	B4647.99 ²⁾
8.00	100	16	64	6	8	B4648.0
8.01	100	16	64	6	8	B4648.01 ²⁾
8.02	100	16	64	6	8	B4648.02 ²⁾

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Ø _{h6} mm	e-Code
8.03	100	16	64	6	8	B4648.03 ²⁾
8.50	100	20	60	6	10	B4648.5
9.00	100	20	60	6	10	B4649.0
9.50	120	20	80	6	10	B4649.5
9.97	120	20	80	6	10	B4649.97 ²⁾
9.98	120	20	80	6	10	B4649.98 ²⁾
9.99	120	20	80	6	10	B4649.99 ²⁾
10.00	120	20	80	6	10	B46410.0
10.01	120	20	80	6	10	B46410.01 ²⁾
10.02	120	20	80	6	10	B46410.02 ²⁾
10.03	120	20	80	6	10	B46410.03 ²⁾
10.50	120	20	75	6	12	B46410.5
11.00	120	20	75	6	12	B46411.0
11.50	120	20	75	6	12	B46411.5
11.97	120	20	75	6	12	B46411.97 ²⁾
11.98	120	20	75	6	12	B46411.98 ²⁾
11.99	120	20	75	6	12	B46411.99 ²⁾
12.00	120	20	75	6	12	B46412.0
12.01	120	20	75	6	12	B46412.01 ²⁾
12.02	120	20	75	6	12	B46412.02 ²⁾
12.03	120	20	75	6	12	B46412.03 ²⁾
13.00	130	22	85	6	14	B46413.0
14.00	130	22	85	6	14	B46414.0
15.00	130	22	82	6	16	B46415.0
16.00	150	25	102	6	16	B46416.0
17.00	150	25	102	6	18	B46417.0
18.00	150	25	102	6	18	B46418.0
19.00	150	25	100	6	20	B46419.0
20.00	150	25	100	6	20	B46420.0

¹⁾ Limit tolerance +0.0040 / Tűrés határ +0.0040 / Wymiar graniczny +0.0040 / Limitele campului de toleranta +0.0040 / Границы олей допусков +0.0040 / tolerančno območje +0.0040

²⁾ Limit tolerance +0.0050 / Tűrés határ +0.0050 / Wymiar graniczny +0.0050 / Limitele campului de toleranta +0.0050 / Границы олей допусков +0.0050 / tolerančno območje +0.0050

- NC - přesný výstružník
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- Rozwiertaki precyzyjne dla obrabiarek CNC
- Alezor de precizie pt NC
- Развертка для станков ЧПУ
- NC povrtalo precizno

NEW

2008.09



B461

Extrémně nerovnoměrné členění / Rendkívül egyenlőtlen horonyszélesség / Bardzo nierówne rozstawienie / Divizare extrem de inegala / Неравномерный шаг / Extremno neenaka delitev



■ 1.1 1.2 1.3 1.4 1.5 1.6 3.1 3.2 3.3 3.4

d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Ø _{h₆}	e-Code	d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Ø _{h₆}	e-Code
3.97	75	12	39	4	6	B4613.97 ¹⁾	8.03	100	16	64	6	8	B4618.03 ²⁾
3.98	75	12	39	4	6	B4613.98 ¹⁾	8.50	100	20	60	6	10	B4618.5
3.99	75	12	39	4	6	B4613.99 ¹⁾	9.00	100	20	60	6	10	B4619.0
4.00	75	12	39	4	6	B4614.0	9.50	120	20	80	6	10	B4619.5
4.01	75	12	39	4	6	B4614.01 ¹⁾	9.97	120	20	80	6	10	B4619.97 ²⁾
4.02	75	12	39	4	6	B4614.02 ¹⁾	9.98	120	20	80	6	10	B4619.98 ²⁾
4.03	75	12	39	4	6	B4614.03 ¹⁾	9.99	120	20	80	6	10	B4619.99 ²⁾
4.50	75	12	39	4	6	B4614.5	10.00	120	20	80	6	10	B46110.0
4.97	75	12	39	4	6	B4614.97 ¹⁾	10.01	120	20	80	6	10	B46110.01 ²⁾
4.98	75	12	39	4	6	B4614.98 ¹⁾	10.02	120	20	80	6	10	B46110.02 ²⁾
4.99	75	12	39	4	6	B4614.99 ¹⁾	10.03	120	20	80	6	10	B46110.03 ²⁾
5.00	75	12	39	4	6	B4615.0	10.50	120	20	75	6	12	B46110.5
5.01	75	12	39	4	6	B4615.01 ¹⁾	11.00	120	20	75	6	12	B46111.0
5.02	75	12	39	4	6	B4615.02 ¹⁾	11.50	120	20	75	6	12	B46111.5
5.03	75	12	39	4	6	B4615.03 ¹⁾	11.97	120	20	75	6	12	B46111.97 ²⁾
5.50	75	12	39	4	6	B4615.5	11.98	120	20	75	6	12	B46111.98 ²⁾
5.97	75	12	39	4	6	B4615.97 ²⁾	11.99	120	20	75	6	12	B46111.99 ²⁾
5.98	75	12	39	4	6	B4615.98 ²⁾	12.00	120	20	75	6	12	B46112.0
5.99	75	12	39	4	6	B4615.99 ²⁾	12.01	120	20	75	6	12	B46112.01 ²⁾
6.00	75	12	39	4	6	B4616.0	12.02	120	20	75	6	12	B46112.02 ²⁾
6.01	75	12	39	4	6	B4616.01 ²⁾	12.03	120	20	75	6	12	B46112.03 ²⁾
6.02	75	12	39	4	6	B4616.02 ²⁾	13.00	130	22	85	6	14	B46113.0
6.03	75	12	39	4	6	B4616.03 ²⁾	14.00	130	22	85	6	14	B46114.0
6.50	100	16	64	6	8	B4616.5	15.00	130	22	82	6	16	B46115.0
7.00	100	16	64	6	8	B4617.0	16.00	150	25	102	6	16	B46116.0
7.50	100	16	64	6	8	B4617.5	17.00	150	25	102	6	18	B46117.0
7.97	100	16	64	6	8	B4617.97 ²⁾	18.00	150	25	102	6	18	B46118.0
7.98	100	16	64	6	8	B4617.98 ²⁾	19.00	150	25	100	6	20	B46119.0
7.99	100	16	64	6	8	B4617.99 ²⁾	20.00	150	25	100	6	20	B46120.0
8.00	100	16	64	6	8	B4618.0							
8.01	100	16	64	6	8	B4618.01 ²⁾							
8.02	100	16	64	6	8	B4618.02 ²⁾							

¹⁾ Limit tolerance +0.0040 / Tűrés határ +0.0040 / Wymiar graniczny +0.0040 / Limitele campului de toleranta +0.0040 / Границы олей допусков +0.0040 / tolerančno območje +0.0040

²⁾ Limit tolerance +0.0050 / Tűrés határ +0.0050 / Wymiar graniczny +0.0050 / Limitele campului de toleranta +0.0050 / Границы олей допусков +0.0050 / tolerančno območje +0.0050

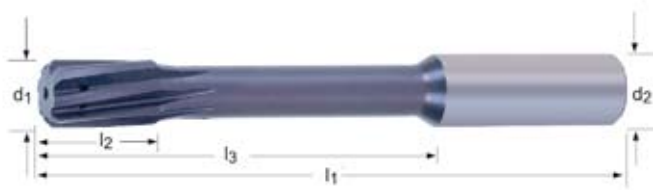
- NC - přesný výstružník
- Alezor de precizie pt NC

- NC - Precíziós Dörzsár
- Развертка для станков ЧПУ

- Rozvrtaki precyzyjne dla obrabiarek CNC
- NC povrtalo precizno

NEW

2008.09



B465



■ 2.1 2.2 2.3 2.4

d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Øh ₆	e-Code
3.97	75	12	39	4	6	B4653.97 ¹⁾
3.98	75	12	39	4	6	B4653.98 ¹⁾
3.99	75	12	39	4	6	B4653.99 ¹⁾
4.00	75	12	39	4	6	B4654.0
4.01	75	12	39	4	6	B4654.01 ¹⁾
4.02	75	12	39	4	6	B4654.02 ¹⁾
4.03	75	12	39	4	6	B4654.03 ¹⁾
4.50	75	12	39	4	6	B4654.5
4.97	75	12	39	4	6	B4654.97 ¹⁾
4.98	75	12	39	4	6	B4654.98 ¹⁾
4.99	75	12	39	4	6	B4654.99 ¹⁾
5.00	75	12	39	4	6	B4655.0
5.01	75	12	39	4	6	B4655.01 ¹⁾
5.02	75	12	39	4	6	B4655.02 ¹⁾
5.03	75	12	39	4	6	B4655.03 ¹⁾
5.50	75	12	39	4	6	B4655.5
5.97	75	12	39	4	6	B4655.97 ²⁾
5.98	75	12	39	4	6	B4655.98 ²⁾
5.99	75	12	39	4	6	B4655.99 ²⁾
6.00	75	12	39	4	6	B4656.0
6.01	75	12	39	4	6	B4656.01 ²⁾
6.02	75	12	39	4	6	B4656.02 ²⁾
6.03	75	12	39	4	6	B4656.03 ²⁾
6.50	100	16	64	6	8	B4656.5
7.00	100	16	64	6	8	B4657.0
7.50	100	16	64	6	8	B4657.5
7.97	100	16	64	6	8	B4657.97 ²⁾
7.98	100	16	64	6	8	B4657.98 ²⁾
7.99	100	16	64	6	8	B4657.99 ²⁾
8.00	100	16	64	6	8	B4658.0
8.01	100	16	64	6	8	B4658.01 ²⁾
8.02	100	16	64	6	8	B4658.02 ²⁾

d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Øh ₆	e-Code
8.03	100	16	64	6	8	B4658.03 ²⁾
8.50	100	20	60	6	10	B4658.5
9.00	100	20	60	6	10	B4659.0
9.50	120	20	80	6	10	B4659.5
9.97	120	20	80	6	10	B4659.97 ²⁾
9.98	120	20	80	6	10	B4659.98 ²⁾
9.99	120	20	80	6	10	B4659.99 ²⁾
10.00	120	20	80	6	10	B46510.0
10.01	120	20	80	6	10	B46510.01 ²⁾
10.02	120	20	80	6	10	B46510.02 ²⁾
10.03	120	20	80	6	10	B46510.03 ²⁾
10.50	120	20	75	6	12	B46510.5
11.00	120	20	75	6	12	B46511.0
11.50	120	20	75	6	12	B46511.5
11.97	120	20	75	6	12	B46511.97 ²⁾
11.98	120	20	75	6	12	B46511.98 ²⁾
11.99	120	20	75	6	12	B46511.99 ²⁾
12.00	120	20	75	6	12	B46512.0
12.01	120	20	75	6	12	B46512.01 ²⁾
12.02	120	20	75	6	12	B46512.02 ²⁾
12.03	120	20	75	6	12	B46512.03 ²⁾
13.00	130	22	85	6	14	B46513.0
14.00	130	22	85	6	14	B46514.0
15.00	130	22	82	6	16	B46515.0
16.00	150	25	102	6	16	B46516.0
17.00	150	25	102	6	18	B46517.0
18.00	150	25	102	6	18	B46518.0
19.00	150	25	100	6	20	B46519.0
20.00	150	25	100	6	20	B46520.0

¹⁾ Limit tolerance +0.0040 / Tűrés határ +0.0040 / Wymiar graniczny +0.0040 / Limitele campului de toleranta +0.0040 / Границы олей допусков +0.0040 / tolerančno območje +0.0040

²⁾ Limit tolerance +0.0050 / Tűrés határ +0.0050 / Wymiar graniczny +0.0050 / Limitele campului de toleranta +0.0050 / Границы олей допусков +0.0050 / tolerančno območje +0.0050

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- Развертка для станков ЧПУ
- NC povrtalo precizno

NEW

2008.09



B462



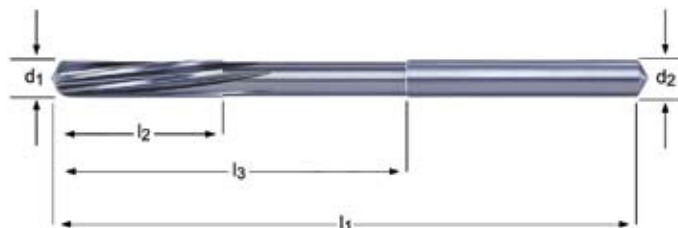
■ 2.1 2.2 2.3 2.4

d ₁ Ø	l ₁	l ₂	l ₃		d ₂ Øh ₆		d ₁ Ø	l ₁	l ₂	l ₃		d ₂ Øh ₆	
mm	mm	mm	mm	z	mm	e-Code	mm	mm	mm	mm	z	mm	e-Code
3.97	75	12	39	4	6	B4623.97 ¹⁾	8.03	100	16	64	6	8	B4628.03 ²⁾
3.98	75	12	39	4	6	B4623.98 ¹⁾	8.50	100	20	60	6	10	B4628.5
3.99	75	12	39	4	6	B4623.99 ¹⁾	9.00	100	20	60	6	10	B4629.0
4.00	75	12	39	4	6	B4624.0	9.50	120	20	80	6	10	B4629.5
4.01	75	12	39	4	6	B4624.01 ¹⁾	9.97	120	20	80	6	10	B4629.97 ²⁾
4.02	75	12	39	4	6	B4624.02 ¹⁾	9.98	120	20	80	6	10	B4629.98 ²⁾
4.03	75	12	39	4	6	B4624.03 ¹⁾	9.99	120	20	80	6	10	B4629.99 ²⁾
4.50	75	12	39	4	6	B4624.5	10.00	120	20	80	6	10	B46210.0
4.97	75	12	39	4	6	B4624.97 ¹⁾	10.01	120	20	80	6	10	B46210.01 ²⁾
4.98	75	12	39	4	6	B4624.98 ¹⁾	10.02	120	20	80	6	10	B46210.02 ²⁾
4.99	75	12	39	4	6	B4624.99 ¹⁾	10.03	120	20	80	6	10	B46210.03 ²⁾
5.00	75	12	39	4	6	B4625.0	10.50	120	20	75	6	12	B46210.5
5.01	75	12	39	4	6	B4625.01 ¹⁾	11.00	120	20	75	6	12	B46211.0
5.02	75	12	39	4	6	B4625.02 ¹⁾	11.50	120	20	75	6	12	B46211.5
5.03	75	12	39	4	6	B4625.03 ¹⁾	11.97	120	20	75	6	12	B46211.97 ²⁾
5.50	75	12	39	4	6	B4625.5	11.98	120	20	75	6	12	B46211.98 ²⁾
5.97	75	12	39	4	6	B4625.97 ²⁾	11.99	120	20	75	6	12	B46211.99 ²⁾
5.98	75	12	39	4	6	B4625.98 ²⁾	12.00	120	20	75	6	12	B46212.0
5.99	75	12	39	4	6	B4625.99 ²⁾	12.01	120	20	75	6	12	B46212.01 ²⁾
6.00	75	12	39	4	6	B4626.0	12.02	120	20	75	6	12	B46212.02 ²⁾
6.01	75	12	39	4	6	B4626.01 ²⁾	12.03	120	20	75	6	12	B46212.03 ²⁾
6.02	75	12	39	4	6	B4626.02 ²⁾	13.00	130	22	85	6	14	B46213.0
6.03	75	12	39	4	6	B4626.03 ²⁾	14.00	130	22	85	6	14	B46214.0
6.50	100	16	64	6	8	B4626.5	15.00	130	22	82	6	16	B46215.0
7.00	100	16	64	6	8	B4627.0	16.00	150	25	102	6	16	B46216.0
7.50	100	16	64	6	8	B4627.5	17.00	150	25	102	6	18	B46217.0
7.97	100	16	64	6	8	B4627.97 ²⁾	18.00	150	25	102	6	18	B46218.0
7.98	100	16	64	6	8	B4627.98 ²⁾	19.00	150	25	100	6	20	B46219.0
7.99	100	16	64	6	8	B4627.99 ²⁾	20.00	150	25	100	6	20	B46220.0
8.00	100	16	64	6	8	B4628.0							
8.01	100	16	64	6	8	B4628.01 ²⁾							
8.02	100	16	64	6	8	B4628.02 ²⁾							

¹⁾ Limit tolerance +0.0040 / Tűrés határ +0.0040 / Wymiar graniczny +0.0040 / Limitele campului de toleranta +0.0040 / Границы олей допусков +0.0040 / tolerančno območje +0.0040

²⁾ Limit tolerance +0.0050 / Tűrés határ +0.0050 / Wymiar graniczny +0.0050 / Limitele campului de toleranta +0.0050 / Границы олей допусков +0.0050 / tolerančno območje +0.0050

- Výstružník strojní extrémně nerovnoměrné členění
- Gépi Dörzsár Rendkívül egyenlőtlen horonyszélesség
- Rozwiertak maszynowy Bardzo nierówne rozstawienie
- Alezoare de masina Divizare extrem de inegala
- Машинная развертка с неравномерным шагом и со спиральным зубом
- povrtalo strojno Extremno neenaka delitev



B400



■	1.5	1.6	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4
	8.1	8.2																		
●	1.1	1.2	1.3	1.4																

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₉ mm	e-Code
1.0	34	6	15	3	1.0	B4001.0 ³⁾
1.2	38	8	16.5	3	1.2	B4001.2 ³⁾
1.4	40	8	18	3	1.4	B4001.4 ³⁾
1.5	40	8	18	3	1.5	B4001.5 ³⁾
1.6	49	11	26	3	1.6	B4001.6 ³⁾
1.8	49	11	25	4	1.8	B4001.8 ³⁾
2.0	49	11	24	4	2.0	B4002.0 ³⁾
2.2	57	15	30	4	2.2	B4002.2 ³⁾
2.5	57	15	28	4	2.5	B4002.5 ³⁾
2.8	61	15	32	6	2.8	B4002.8 ³⁾
3.0	61	15	30	6	3.0	B4003.0 ³⁾
3.2	70	18	33	6	3.2	B4003.2 ³⁾
3.5	70	18	33	6	3.5	B4003.5 ³⁾
4.0	75	19	44	6	4.0	B4004.0 ³⁾

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₉ mm	e-Code
4.5	80	21	46	6	4.5	B4004.5 ³⁾
5.0	86	23	53	6	5.0	B4005.0 ³⁾
5.5	93	26	56	6	5.6	B4005.5 ³⁾
6.0	93	26	56	6	5.6	B4006.0 ³⁾
6.5	101	28	63	6	6.3	B4006.5 ⁴⁾
7.0	109	31	69	6	7.1	B4007.0 ⁴⁾
8.0	117	33	75	6	8.0	B4008.0 ⁴⁾
9.0	125	36	81	6	9.0	B4009.0 ⁴⁾
10.0	133	38	87	6	10.0	B40010.0 ⁴⁾
12.0	151	44	105	6	10.0	B40012.0 ⁴⁾
14.0	160	47	110	8	12.5	B40014.0 ⁴⁾
16.0	170	52	120	8	12.5	B40016.0 ⁴⁾
18.0	182	56	130	6	14.0	B40018.0 ³⁾
20.0	195	60	137	6	16.0	B40020.0 ³⁾

³⁾ slinutý karbid / Tömör keményfém / Pelno węglkowy / Carbură masivă / Твердый сплав / Karbidna trdina

⁴⁾ karbidová hlava / Keményfém fej / Część skrawająca z węglika / Varf carbură / Твердосплавная головка / Glava iz karbidne trdine

- NC - setinový výstružník pro vycocce přesné upnutí
- Alezor NC, centesimale pentru portscule de precizie
- NC - dörzsár nagy pontosságú befogótokmányhoz
- NC - Развертка для станков с ЧПУ
- NC- Rozwiertak Precyzyjny przeznaczony do mocowania w dokładnych uchwytach
- NC precizno povrtalo za visokoprecizna vpenjala



B481

Extrémně nerovnoměrné členění / Rendkívül egyenlőtlen horonyszélesség / Bardzo nierówne rozstawienie / Divizare extrem de inegală / Неравномерный шаг / Extremno neenaka delitev

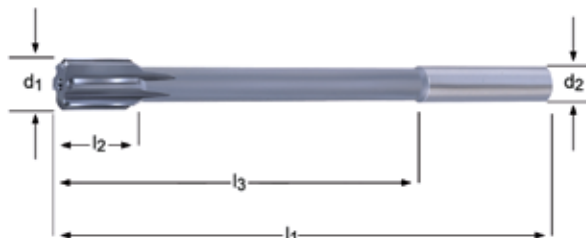


■	1.5	1.6	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4
	8.1	8.2																		
●	1.1	1.2	1.3	1.4																

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₆ mm	e-Code
0.98	49.5	6	21.5	3	4	B4810.98
0.99	49.5	6	21.5	3	4	B4810.99
1.00	49.5	6	21.5	3	4	B4811.00
1.01	49.5	6	21.5	3	4	B4811.01
1.02	49.5	6	21.5	3	4	B4811.02
1.03	49.5	9	21.5	3	4	B4811.03
1.48	49	9	21	3	4	B4811.48
1.49	49	9	21	3	4	B4811.49
1.50	49	9	21	3	4	B4811.50
1.51	49	9	21	3	4	B4811.51
1.52	49	9	21	3	4	B4811.52
1.53	49	9	21	3	4	B4811.53
1.98	49	12	21	4	4	B4811.98
1.99	49	12	21	4	4	B4811.99
2.00	49	12	21	4	4	B4812.00
2.01	49	12	21	4	4	B4812.01
2.02	49	12	21	4	4	B4812.02
2.03	49	12	21	4	4	B4812.03
2.48	59	16	31	4	4	B4812.48
2.49	59	16	31	4	4	B4812.49
2.50	59	16	31	4	4	B4812.50
2.51	59	16	31	4	4	B4812.51
2.52	59	16	31	4	4	B4812.52
2.53	59	16	31	4	4	B4812.53
2.97	62.5	17	35	6	4	B4812.97
2.98	62.5	17	35	6	4	B4812.98
2.99	62.5	17	35	6	4	B4812.99
3.00	62.5	17	35	6	4	B4813.00
3.01	62.5	17	35	6	4	B4813.01
3.02	62.5	17	35	6	4	B4813.02
3.03	62.5	17	35	6	4	B4813.03
3.97	75	19	47	6	4	B4813.97
3.98	75	19	47	6	4	B4813.98
3.99	75	19	47	6	4	B4813.99
4.00	75	19	47	6	4	B4814.00
4.01	75	19	47	6	4	B4814.01
4.02	75	19	47	6	4	B4814.02
4.03	75	19	47	6	4	B4814.03
4.97	86	23	50	6	6	B4814.97
4.98	86	23	50	6	6	B4814.98

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₆ mm	e-Code
4.99	86	23	50	6	6	B4814.99
5.00	86	23	50	6	6	B4815.00
5.01	86	23	50	6	6	B4815.01
5.02	86	23	50	6	5	B4815.02
5.03	86	23	50	6	6	B4815.03
5.97	93	26	57	6	6	B4815.97
5.98	93	26	57	6	6	B4815.98
5.99	93	26	57	6	6	B4815.99
6.00	93	26	57	6	6	B4816.00
6.01	93	26	57	6	6	B4816.01
6.02	93	26	57	6	6	B4816.02
6.03	93	26	57	6	6	B4816.03
7.97	117	33	81	6	8	B4817.97
7.98	117	33	81	6	8	B4817.98
7.99	117	33	81	6	8	B4817.99
8.00	117	33	81	6	8	B4818.00
8.01	117	33	81	6	8	B4818.01
8.02	117	33	81	6	8	B4818.02
8.03	117	33	81	6	8	B4818.03
8.04	117	33	81	6	8	B4818.04
9.97	133	38	93	6	10	B4819.97
9.98	133	38	93	6	10	B4819.98
9.99	133	38	93	6	10	B4819.99
10.00	133	38	93	6	10	B48110.00
10.01	133	38	93	6	10	B48110.01
10.02	133	38	93	6	10	B48110.02
10.03	133	38	93	6	10	B48110.03
10.04	133	38	93	6	10	B48110.04
10.05	133	38	93	6	10	B48110.05
11.97	151	44	106	6	12	B48111.97
11.98	151	44	106	6	12	B48111.98
11.99	151	44	106	6	12	B48111.99
12.00	151	44	106	6	12	B48112.00
12.01	151	44	106	6	12	B48112.01
12.02	151	44	106	6	12	B48112.02
12.03	151	44	106	6	12	B48112.03
12.04	151	44	106	6	12	B48112.04
12.05	151	44	106	6	12	B48112.05

- Výstružník strojní extrémně nerovnoměrné členění
- Gépi Dörzsár Rendkívül egyenlőtlen horonyszélesség
- Rozwiertak maszynowy Bardzo nierówne rozstawienie
- Alezoare de masina Divizare extrem de inegala
- Машинная развертка с неравномерным шагом и со спиральным зубом
- povrtalo strojno Extremno neenaka delitev



B441



- 1.5 1.6 3.1 3.2 3.3 3.4 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4
- 8.1 8.2
- 1.1 1.2 1.3 1.4

d_1 Ø	l_1	l_2	l_3	d_2 Ø _{h₉}	z	e-Code
10.0	133	19	87	6	10	B44110.0
11.0	142	19	96	6	10	B44111.0
12.0	151	19	105	6	10	B44112.0
13.0	151	19	105	6	10	B44113.0
14.0	160	19	110	6	12.5	B44114.0
15.0	162	19	112	6	12.5	B44115.0

d_1 Ø	l_1	l_2	l_3	d_2 Ø _{h₉}	z	e-Code
16.0	170	22	120	6	12.5	B44116.0
17.0	175	22	123	6	14	B44117.0
18.0	182	22	130	6	14	B44118.0
19.0	189	22	131	6	16	B44119.0
20.0	195	22	137	6	16	B44120.0

- Strojní výstružník s kuželovou stopkou
- spirálový - stavitelný
- Gépi Dörzsár – Egyenes hornyú
- Rozwiertak maszynowy z chwytem stożkowym - Prosty - Nastawny
- Alezor de masina - Canale drepte
- Reglabil
- Прямозубая регулируемая машинная развертка
- povrtalo strojno, nastavljivo



B451

Seřiditelné 0,03 mm / Állíthatósági tartomány 0,03mm / Zakres nastawy 0,03mm / Gama de reglaj 0.03mm / Диапазон настройки 0,03 мм / Vpenjalno območje 0.03mm



■	1.5	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	8.2
•	1.1	1.2	1.3	1.4	4.3	5.3														

d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Øh ₆	e-Code
8.0	117	12	75	4	8.0	B4518.0
9.0	125	12	79	6	10.0	B4519.0
10.0	133	12	87	6	10.0	B45110.0
11.0	142	12	96	6	10.0	B45111.0
12.0	151	12	105	6	10.0	B45112.0
13.0	151	12	105	6	10.0	B45113.0

d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Øh ₆	e-Code
14.0	160	16	110	6	12.0	B45114.0
15.0	162	16	112	6	12.0	B45115.0
16.0	170	19	120	6	12.0	B45116.0
18.0	182	19	130	6	14.0	B45118.0
20.0	195	19	137	6	16.0	B45120.0

- Výstružník strojní extrémně nerovnoměrné členění
- Gépi Dörzsár Rendkívül egyenlőtlen horonyszélesség
- Rozwiertak maszynowy Bardzo nierówne rozstawienie
- Alezoare de masina Divizare extrem de inegala
- Машинная развертка с неравномерным шагом и со спиральным зубом
- povrtalo strojno Extremno neenaka delitev



B411



■	1.5	1.6	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4
	8.1	8.2																		
●	1.1	1.2	1.3	1.4																

d ₁ Ø	l ₁	l ₂	l ₃	z	MK	e-Code
5.0	133	23	67.5	6	1	B41115.0 ¹⁾
6.0	138	26	72.5	6	1	B41116.0 ¹⁾
7.0	150	31	84.5	6	1	B41117.0 ¹⁾
8.0	156	33	90.5	6	1	B41118.0 ¹⁾
9.0	162	36	96.5	6	1	B41119.0 ¹⁾
10.0	168	38	102.5	6	1	B41110.0 ¹⁾
12.0	182	44	116.5	6	1	B41112.0 ¹⁾
14.0	189	47	123.5	8	1	B41114.0 ¹⁾
15.0	204	50	124	8	2	B41115.0 ¹⁾
16.0	210	52	130	8	2	B41116.0 ¹⁾

d ₁ Ø	l ₁	l ₂	l ₃	z	MK	e-Code
17.0	214	54	134	6	2	B41117.0 ²⁾
18.0	219	56	139	6	2	B41118.0 ²⁾
19.0	223	58	143	6	2	B41119.0 ²⁾
20.0	228	60	148	6	2	B41120.0 ²⁾
22.0	237	64	157	6	2	B41122.0 ²⁾
24.0	268	68	169	8	3	B41124.0 ²⁾
25.0	268	68	169	8	3	B41125.0 ²⁾
26.0	273	70	174	8	3	B41126.0 ²⁾
30.0	281	73	182	8	3	B41130.0 ²⁾

¹⁾ slinutý karbid / Tömör keményfém / Pelno węglkowy / Carbură masivă / Твердый сплав / Karbidna trdina

²⁾ karbidová hlava / Keményfém fej / Część skrawająca z węglika / Varf carbură / Твердосплавная головка / Glava iz karbidne trdine

- Výstružník strojní extrémně nerovnoměrné členění
- Gépi Dörzsár Rendkívül egyenlőtlen horonyszélesség
- Rozwiertak maszynowy Bardzo nierówne rozstawienie
- Alezoare de masina Divizare extrem de inegala
- Машинная развертка с неравномерным шагом и со спиральным зубом
- povrtalo strojno Extremno neenaka delitev



B442



■	1.5	1.6	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4
	8.1	8.2																		
●	1.1	1.2	1.3	1.4																

d ₁ Ø	l ₁	l ₂	l ₃	z	MK	e-Code
10.0	168	19	102.5	6	1	B44210.0
12.0	182	19	116.5	6	1	B44212.0
14.0	189	19	123.5	6	1	B44214.0
15.0	204	19	124	6	2	B44215.0
16.0	210	22	130	6	2	B44216.0
17.0	214	22	134	6	2	B44217.0

d ₁ Ø	l ₁	l ₂	l ₃	z	MK	e-Code
18.0	219	22	139	6	2	B44218.0
19.0	223	22	143	6	2	B44219.0
20.0	228	22	148	6	2	B44220.0

- Strojní výstružník s kuželovou stopkou
- spirálový - stavitelný
- Gépi Dörzsár – Egyenes hornyú
- Rozwiertak maszynowy z chwytem stożkowym - Prosty - Nastawny
- Alezor de masina - Canale drepte
- Reglabil
- Регулируемая машинная развертка с конусом Морзе, прямой зуб
- povrtalo strojno, nastavljivo



B452

Seřiditelné 0,03 mm / Állíthatósági tartomány 0,03mm / Zakres nastawy 0,03mm / Domeniu de reglaj 0,03 mm / Диапазон настройки 0,03 мм / Vpenjalno območje 0.03mm



■	1.5	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	8.2
●	1.1	1.2	1.3	1.4	4.3	5.3														

d ₁ Ø	l ₁	l ₂	l ₃	z	MK	e-Code
8.0	156	12	90.5	4	1	B4528.0
10.0	168	12	102.5	6	1	B45210.0
11.0	175	12	109.5	6	1	B45211.0
12.0	182	12	116.5	6	1	B45212.0
13.0	182	12	116.5	6	1	B45213.0
14.0	189	16	123.5	6	1	B45214.0
15.0	204	16	124	6	2	B45215.0
16.0	210	19	130	6	2	B45216.0
17.0	214	19	134	6	2	B45217.0
18.0	219	19	139	6	2	B45218.0

d ₁ Ø	l ₁	l ₂	l ₃	z	MK	e-Code
19.0	223	19	143	6	2	B45219.0
20.0	228	19	148	6	2	B45220.0
22.0	237	22	157	6	2	B45222.0
24.0	268	22	169	6	3	B45224.0
25.0	268	22	169	6	3	B45225.0
26.0	273	22	174	6	3	B45226.0
28.0	277	25	178	6	3	B45228.0
30.0	281	25	182	6	3	B45230.0

G400

DORMER

- Záhľubník pro vysoce přesné upnutí
- Süllyesztő nagy pontosságú befogótokmányhoz
- Poglębiacz do Precyzyjnych Uchwytów
- Zencuitor pentru mandrine de mare precizie
- Зенковка для станков с ЧПУ
- Grezilo za visokoprecizna vpenjala



NEW

2008.09



G400



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.1	7.2	7.3	7.4	8.1	8.2

max d mm	min d	l_1 mm	d_2 $\varnothing h_6$ mm	z	e-Code	max d mm	min d	l_1 mm	d_2 $\varnothing h_6$ mm	z	e-Code
6.3	1.5	45	5	3	G4006.3	16.5	3.2	60	10	3	G40016.5
8.3	2.0	50	6	3	G4008.3	20.5	3.5	63	10	3	G40020.5
10.4	2.5	50	6	3	G40010.4	25.0	3.8	67	10	3	G40025.0
12.4	2.8	56	8	3	G40012.4	31.0	4.2	71	12	3	G40031.0

- Hvězdička oboustranná
- Kúpsüllyesztő
- Pogłębiacz dwustronne
- Zencuitoare doua capete
- Зенковка
- grezilo, dvostransko

NEW

2008.09



G405



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.1	7.2	7.3	7.4	8.1	8.2

max d	min d	l ₁	l ₃	d ₂ Øh ₆	z	e-Code	max d	min d	l ₁	l ₃	d ₂ Øh ₆	z	e-Code
mm	mm	mm	mm	mm			mm	mm	mm	mm	mm		
8.3	2.0	67	46	10	3	G4058.3	12.4	2.8	76	45	14	3	G40512.4
10.4	2.5	74	47	12	3	G40510.4							



	B100	B341	B334	B335	B951	B301	B903	B952	B500	B180	B191	B181
												
	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS	HSS-E	HSS-E	HSS-E	HSS-E
	ST	ST			ST	ST	ST					
	DIN 206	DIN 859	D	D	D	BS 328	DIN 9	DIN 9	DIN 212	DIN 212	DIN 212	DIN 212
												
												
	B	B			B	A	A	B	A	B	B	B
	H7								H7	H7	H7	
												
	1.50 - 50.00	6.00 - 20.00	N000 - N16	N000 - N16	10.00 - 45.00	1/16 - 7/8	1.50 - 20.00	1.20 - 50.00	2.00 - 20.00	1.50 - 20.00	Set 10S	1.00 - 12.00
	210	211	212	213	214	215	216	217	218	219	220	221
1.1	■18C	■18C	■18C		■18C	■18C	■18C	■18C		■25C	■25C	■25C
1.2	■14C	■14C	■14C		■14C	■14C	■14C	■14C		■20C	■20C	■20C
1.3	■11C	■11C	■11C		■11C	■11C	■11C	■11C		■16C	■16C	■16C
1.4	■10B	■10B	■10B		■10B	■10B	■10B	■10B		■15B	■15B	■15B
1.5	●5B	●5B	●5B		●5B	●5B	●5B	●5B		●9B	●9B	●9B
1.6	●4A	●4A	●4A		●4A	●4A	●4A	●4A		●5A	●5A	●5A
1.7												
1.8												
2.1	■8F	■8F	■8F		■8C	■8C	■8C	■8C		■11C	■11C	■11C
2.2						●5B	●5B	●5B		●6B	●6B	●6B
2.3						●6B	●6B	●6B		●8B	●8B	●8B
2.4										●6B	●6B	●6B
3.1	■14E	■14E	■14E		■14E	■14E	■14E	■14E	■16E	●16E	●16E	●16E
3.2	●11D	●11D	●11D		●11D	●11D	●11D	●11D	●15D	●15D	●15D	●15D
3.3	●10C	●10C	●10C		●10C	●10C	●10C	●10C	●13C	●13C	●13C	●13C
3.4	●9C	●9C	●9C		●9C	●9C	●9C	●9C	●11C	●11C	●11C	●11C
4.1	■11C	■11C	■11C		■11C	■11C	■11C	■11C	■11C	●15C	●15C	●15C
4.2	●5B	●5B	●5B		●5B	●5B	●5B	●5B		●9B	●9B	●9B
4.3	●4B	●4B	●4B		●4B	●4B	●4B	●4B		●5B	●5B	●5B
5.1	●5D	●5D	●5D		●5D	●5D	●5D	●5D		■8D	■8D	■8D
5.2	●3C	●3C	●3C		●3C	●3C	●3C	●3C		●5C	●5C	●5C
5.3	●2C	●2C	●2C		●2C	●2C	●2C	●2C		●3C	●3C	●3C
6.1	●18D	●18D	●18D		●18D	●18D	●18D	●18D		●25D	●25D	●25D
6.2	■20E	■20E	■20E		■20E	■20E	■20E	■20E	●28E	●28E	●28E	●28E
6.3	●18D	●18D	●18D		●18D	●18D	●18D	●18D	●25D	●25D	●25D	●25D
6.4	●11D	●11D	●11D		●11D	●11D	●11D	●11D	●14D	●14D	●14D	●14D
7.1	●23F	●23F	●23F		●23F	●23F	●23F	●23F				
7.2	●18F	●18F	●18F		●18F	●18F	●18F	●18F				
7.3					●15E	●15E	●15E	●15E				
7.4					●14D	●14D	●14D	●14D				
8.1												
8.2	●21B	●21B	●21B		●21B	●21B	●21B	●21B	●30B			
8.3												
9.1												
10.1												



206

207

208

	Ø mm												
	1,5	2	3	5	8	10	12	16	20	25	30	40	50
A	0,045	0,055	0,078	0,100	0,150	0,170	0,185	0,220	0,250	0,280	0,320	0,390	0,440
B	0,055	0,072	0,110	0,150	0,180	0,210	0,240	0,280	0,310	0,360	0,400	0,500	0,550
C	0,065	0,085	0,135	0,185	0,220	0,260	0,285	0,335	0,390	0,440	0,480	0,600	0,680
D	0,080	0,110	0,160	0,200	0,270	0,320	0,360	0,410	0,470	0,540	0,600	0,730	0,850
E	0,100	0,140	0,180	0,250	0,350	0,390	0,430	0,500	0,530	0,640	0,750	0,910	1,100
F	0,140	0,180	0,260	0,350	0,440	0,500	0,550	0,630	0,700	0,800	0,930	1,200	1,500
mm/REV ± 15%													

	Ø mm									
	6	8	10	16	20	25	32	40	60	80
A	0.03	0.04	0.05	0.06	0.08	0.09	0.10	0.12	0.14	0.16
B	0.04	0.05	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20
C	0.05	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22
D	0.06	0.08	0.10	0.12	0.15	0.18	0.20	0.22	0.25	0.28
E	0.08	0.10	0.12	0.15	0.18	0.20	0.25	0.27	0.30	0.32
F	0.09	0.11	0.13	0.16	0.19	0.21	0.26	0.29	0.33	0.36
G	0.10	0.12	0.15	0.18	0.20	0.22	0.28	0.32	0.36	0.40
H	0.12	0.15	0.18	0.20	0.22	0.25	0.30	0.35	0.40	0.45
mm/N										

- Základní doporučení pro úběr materiálu při předvrtávání děr • Javaslat előfúrásnál alkalmazott eltávolítási rátára vonatkozóan • Podstawowe wskazówki dotyczące usuwania materiału przy wierceniu pod rozwiertak • Indicatii generale privind adaosul după pre-gaurire • Рекомендованные припуски для предварительного сверления отверстия • spoločná navodila za odvzem materiala pri predvrtanju

	Ø (mm)				
	3 - 5mm	5.1 - 10mm	10.1 - 20mm	20.1 - 30mm	> 30mm
1.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
1.2	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
1.3	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
1.4	0.1-0.2	0.2	0.2	0.3	0.3-0.4
1.5	0.1-0.2	0.2	0.2	0.3	0.3-0.4
1.6	0.1-0.2	0.2	0.2	0.3	0.3-0.4
1.7	0.1-0.2	0.2	0.2	0.3	0.3-0.4
1.8	0.1-0.2	0.2	0.2	0.3	0.3-0.4
2.1	0.1-0.2	0.2	0.2	0.3	0.3-0.4
2.2	0.1-0.2	0.2	0.2	0.3	0.3-0.4
2.3	0.1-0.2	0.2	0.2	0.3	0.3-0.4
2.4	0.1-0.2	0.2	0.2	0.3	0.3-0.4
3.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
3.2	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
3.3	0.1-0.2	0.2	0.3	0.4	0.5
3.4	0.1-0.2	0.2	0.3	0.4	0.5
4.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.3-0.4
4.2	0.1-0.2	0.2	0.2	0.3	0.3-0.4
4.3	0.1-0.2	0.2	0.2	0.3	0.3-0.4
5.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5
5.2	0.1-0.2	0.2	0.2	0.3	0.3-0.4
5.3	0.1-0.2	0.2	0.2	0.3	0.3-0.4
6.1	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
6.2	0.1-0.2	0.2	0.2-0.3	0.3	0.3-0.4
6.3	0.1-0.2	0.2	0.2-0.3	0.3	0.3-0.4
6.4	0.1-0.2	0.2	0.2-0.3	0.3	0.3-0.4
7.1	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
7.2	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
7.3	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
7.4	0.1-0.2	0.2-0.3	0.3-0.4	0.4-0.5	0.5
8.1	0.1-0.2	0.3	0.4	0.4-0.5	0.5
8.2	0.1-0.2	0.2	0.2	0.3	0.3-0.4
8.3	0.1-0.2	0.2	0.2	0.3	0.3-0.4
9.1	0.1-0.2	0.2	0.2	0.3	0.3-0.4
10.1	0.1-0.2	0.2	0.2-0.3	0.3-0.4	0.4-0.5

Pro staviteľné výstružníky alebo výstružníky s břitými zmenšete úběr materiálu o 30%. Pro výstružníky s rychlou šroubovicí zvýšte o 50% / Állítható vagy penge dörzsárak esetében csökkentse az előtolást 30%-kal. Csavarhormonyú gépi dörzsáraknál növelje 50%-kal / Dla rozwiertaków nastawnych zmniejsz usuwanie materiału o 30%, zostaw większy zapas. Dla rozwiertaków mocno skrętnych zwiększ o 50%, zostaw mniejszy zapas / Pentru alezoare reglabile sau cu lamele, reduceti adaosul cu 30%. Pentru alezoare cu elice pronunțată creștetți cu 50%. / Для регулируемых разверток снижение припуска на 30%. Для разверток с крутым спиральным зубом повышение на 50% / Nastavljiva povrtala ali povrtala na ploščico zmanjšaj odvzem materiala za 30%, pri povrtalih z večjim kotom vijačnice pa povečajte odvzem za 50%

- Výstružník ruční
- Kézi Dörzsár
- Rozwiertak reczny
- Alezor de mana
- Ручная развертка со спиральным зубом
- povrtalo ročno



B100

d2=d1 v toleranci e9 / d2=d1 e9 tűréssel / d2=d1 z tolerancja e9 / d2=d1 cu toleranta e9 / d2=d1 с допуском e9 / d2=d1 s toleranco e9



■	1.1	1.2	1.3	1.4	2.1	3.1	4.1	6.2								
●	1.5	1.6	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.1	6.3	6.4	7.1	7.2	8.2

d ₁ Ø Inch	d ₁ Ø mm	l ₁ mm	l ₂ mm	z	a mm	e-Code
1/16	1.50	41	20	3	1.12	B1001.5
	1.59	41	20	3	1.12	B1001/16
	1.60	44	21	3	1.25	B1001.6
5/64	1.98	47	23	4	1.40	B1005/64
	2.00	50	25	4	1.60	B1002.0
3/32	2.38	54	27	4	1.80	B1003/32
	2.50	58	29	4	2.10	B1002.5
7/64	2.78	62	31	6	2.10	B1007/64
	3.00	62	31	6	2.40	B1003.0
1/8	3.18	66	33	6	2.40	B1001/8
	3.20	66	33	6	2.40	B1003.2
	3.50	71	35	6	2.70	B1003.5
9/64	3.57	71	35	6	2.70	B1009/64
5/32	3.97	76	38	6	3.00	B1005/32
	4.00	76	38	6	3.00	B1004.0
11/64	4.37	81	41	6	3.40	B10011/64
	4.50	81	41	6	3.40	B1004.5
3/16	4.76	87	44	6	3.80	B1003/16
	5.00	87	44	6	3.80	B1005.0
13/64	5.16	87	44	6	3.80	B10013/64
	5.50	93	47	6	4.30	B1005.5
7/32	5.56	93	47	6	4.30	B1007/32
15/64	5.95	93	47	6	4.90	B10015/64
	6.00	93	47	6	4.90	B1006.0
1/4	6.35	100	50	6	4.90	B1001/4
	6.50	100	50	6	4.90	B1006.5
17/64	6.75	107	54	6	5.50	B10017/64
	7.00	107	54	6	5.50	B1007.0
9/32	7.14	107	54	6	6.20	B1009/32
	7.50	107	54	6	6.20	B1007.5
19/64	7.54	115	58	6	6.20	B10019/64
5/16	7.94	115	58	6	6.20	B1005/16
	8.00	115	58	6	6.20	B1008.0
21/64	8.33	115	58	6	7.00	B10021/64
	8.50	115	58	6	7.00	B1008.5
11/32	8.73	124	62	6	7.00	B10011/32
	9.00	124	62	6	7.00	B1009.0
23/64	9.13	124	62	6	8.00	B10023/64
	9.50	124	62	6	8.00	B1009.5
3/8	9.53	124	62	6	8.00	B1003/8
25/64	9.92	133	66	6	8.00	B10025/64
	10.00	133	66	6	8.00	B10010.0
13/32	10.32	133	66	6	8.00	B10013/32
	10.50	133	66	6	8.00	B10010.5
	11.00	142	71	6	9.00	B10011.0
7/16	11.11	142	71	6	9.00	B1007/16

d ₁ Ø Inch	d ₁ Ø mm	l ₁ mm	l ₂ mm	z	a mm	e-Code
	11.50	142	71	6	9.00	B10011.5
	12.00	152	76	6	9.00	B10012.0
	12.50	152	76	6	10.00	B10012.5
1/2	12.70	152	76	6	10.00	B1001/2
	13.00	152	76	6	10.00	B10013.0
17/32	13.49	163	81	8	11.00	B10017/32
	13.50	163	81	8	11.00	B10013.5
	14.00	163	81	8	11.00	B10014.0
9/16	14.29	163	81	8	11.00	B1009/16
	14.50	163	81	8	11.00	B10014.5
	15.00	163	81	8	12.00	B10015.0
19/32	15.08	163	81	8	12.00	B10019/32
5/8	15.88	175	87	8	12.00	B1005/8
	16.00	175	87	8	12.00	B10016.0
	17.00	175	87	8	13.00	B10017.0
11/16	17.46	188	93	8	14.50	B10011/16
	18.00	188	93	8	14.50	B10018.0
	19.00	188	93	8	14.50	B10019.0
3/4	19.05	188	93	8	14.50	B1003/4
	20.00	201	100	8	16.00	B10020.0
13/16	20.64	201	100	8	16.00	B10013/16
	21.00	201	100	8	16.00	B10021.0
	22.00	215	107	8	18.00	B10022.0
7/8	22.23	215	107	8	18.00	B1007/8
	23.00	215	107	8	18.00	B10023.0
	24.00	231	115	8	18.00	B10024.0
	25.00	231	115	8	20.00	B10025.0
1"	25.40	231	115	8	20.00	B1001
	26.00	231	115	8	20.00	B10026.0
	27.00	247	124	10	22.00	B10027.0
	28.00	247	124	10	22.00	B10028.0
	29.00	247	124	10	22.00	B10029.0
	30.00	247	124	10	24.00	B10030.0
	31.00	265	133	10	24.00	B10031.0
	32.00	265	133	10	24.00	B10032.0
	33.00	265	133	10	26.00	B10033.0
	34.00	284	142	10	26.00	B10034.0
	35.00	284	142	10	29.00	B10035.0
	36.00	284	142	10	29.00	B10036.0
	37.00	284	142	10	29.00	B10037.0
	38.00	305	152	10	29.00	B10038.0
	39.00	305	152	10	32.00	B10039.0
	40.00	305	152	10	32.00	B10040.0
	45.00	326	163	12	35.00	B10045.0
	50.00	347	174	12	39.00	B10050.0

B341

DORMER

- Výstružník ruční - spirálový, stavitelný
- Állítható kézi Dörzsár – Csavart hornyú
- Rozwiertaki ręczne - Skretne - Nastawne
- Alezor de mana - Canal elicoidal - Reglabil
- Регулируемая ручная развертка со спиральным зубом
- povrtalo ročno, nastavljivo



B341

d2=d1 v toleranci e9, staviteľné 1/100 prúmeru / d2=d1 e9 túréssel, kiigazítás: átmérő x 1/100 / d2=d1 z tolerancją e9, Zakres nastawy 1/100 Średnicy / d2=d1 cu toleranță e9, gama de reglaj 1/100 din Diametru / d2=d1 с допуском e9, диапазон настройки 1/100 от диаметра / d2=d1 s toleranco e9, korak nastavitve 1/100 D



■	1.1	1.2	1.3	1.4	2.1	3.1	4.1	6.2								
●	1.5	1.6	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.1	6.3	6.4	7.1	7.2	8.2

d ₁ Ø mm	l ₁ mm	l ₂ mm	z	a mm	e-Code
6.0	93	33	6	4.9	B3416.0
7.0	107	38	9	5.5	B3417.0
8.0	115	42	9	6.2	B3418.0
10.0	133	50	9	8.0	B34110.0
11.0	142	51	9	9.0	B34111.0
12.0	152	56	9	9.0	B34112.0

d ₁ Ø mm	l ₁ mm	l ₂ mm	z	a mm	e-Code
14.0	163	61	9	11.0	B34114.0
16.0	175	67	9	12.0	B34116.0
18.0	188	68	9	14.5	B34118.0
20.0	201	75	9	16.0	B34120.0

- Staviteľný ručný výstružník - přímá drážka
- Állítható Kézi Dörzsár - Egyenes Hornyú
- Rozwiertaki ręczne rozprezne - Proste
- Alezoare reglabile de mana - Canale drepte
- Регулируемые ручные развертки
- povrtalo ročno, ekspanzijsko



B334



- 1.1 1.2 1.3 1.4 2.1 3.1 4.1 6.2
- 1.5 1.6 3.2 3.3 3.4 4.2 4.3 5.1 5.2 5.3 6.1 6.3 6.4 7.1 7.2 8.2

Nr.	d min-max mm	l ₁ mm	l ₂ mm	z	a mm	e-Code
000	6.4 - 7.2	110	32	4	3.0	B334000
00	7.2 - 8.0	110	32	4	3.4	B33400
0	8.0 - 9.0	115	34	5	3.8	B3340
1	9.0 - 10.0	115	34	5	4.3	B3341
2	10.0 - 11.0	115	34	5	4.9	B3342
3	11.0 - 12.0	125	35	5	4.9	B3343
4	12.0 - 13.5	135	41	5	6.2	B3344
5	13.5 - 15.5	146	50	5	7.0	B3345
6	15.5 - 18.0	166	60	5	8.0	B3346
7	18.0 - 21.0	178	65	5	9.0	B3347

Nr.	d min-max mm	l ₁ mm	l ₂ mm	z	a mm	e-Code
8	21.0 - 24.0	195	76	5	11.0	B3348
9	24.0 - 27.5	218	82	5	12.0	B3349
10	27.5 - 31.5	245	86	5	14.5	B33410
11	31.5 - 37.0	280	98	6	18.0	B33411
12	37.0 - 45.0	325	108	6	20.0	B33412
13	45.0 - 55.0	370	118	6	26.0	B33413
14	55.0 - 67.0	400	125	6	32.0	B33414
15	67.0 - 80.0	435	140	8	39.0	B33415
16	80.0 - 95.0	475	155	8	49.0	B33416

B335



- Staviteľný ručný výstružník - náhradní díly (B334)
- Állítható Kézi Dörzsár - Pótalkatrész (B334)
- Rozwiertaki ręczne rozprezne - Części zamienne (B 331)
- Alezoare reglabile de mana - Piese de schimb (B334)
- Комплектующие для регулируемых ручных разверток
- povrtalo ročno, ekspanzijsko



BLADES



NUT

B335



Nr.	e-Code
000	B335000BLADES
000	B335000NUT
00	B33500BLADES
00	B33500NUT
0	B3350BLADES
0	B3350NUT
1	B3351BLADES
1	B3351NUT
2	B3352BLADES
2	B3352NUT
3	B3353BLADES
3	B3353NUT
4	B3354BLADES
4	B3354NUT
5	B3355BLADES
5	B3355NUT
6	B3356BLADES
6	B3356NUT
7	B3357BLADES
7	B3357NUT

Nr.	e-Code
8	B3358BLADES
8	B3358NUT
9	B3359BLADES
9	B3359NUT
10	B33510BLADES
10	B33510NUT
11	B33511BLADES
11	B33511NUT
12	B33512BLADES
12	B33512NUT
13	B33513BLADES
13	B33513NUT
14	B33514BLADES
14	B33514NUT
15	B33515BLADES
15	B33515NUT
16	B33516BLADES
16	B33516NUT

- Výstružník ruční kuželový
- Kézi kúpdörzsár
- Rozwiertak reczny stożkowy
- Alezor de mana conic 1:10
- Коническая ручная развертка
- povrtalo ročno



B951



■	1.1	1.2	1.3	1.4	2.1	3.1	4.1	6.2									
●	1.5	1.6	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.1	6.3	6.4	7.1	7.2	8.2	

d_2 Ø mm	d_1 Ø mm	l_1 mm	l_2 mm	z	a mm	d_3 Ø h_{11} mm	e-Code
10	3	100	70	5	6.2	8	B95110.0
15	5	140	100	7	10.0	13	B95115.0
25	10	195	150	9	16.0	21	B95125.0
35	15	250	200	11	24.0	30	B95135.0

d_2 Ø mm	d_1 Ø mm	l_1 mm	l_2 mm	z	a mm	d_3 Ø h_{11} mm	e-Code
45	20	275	220	11	32.0	40	B95145.0

DORMER

-
- The diagram shows a horizontal shaft with a tapered section. The left end has a diameter d_1 and the right end has a diameter d_2 . The total length of the shaft is l_1 , and the length of the tapered section is l_2 . A dimension a is indicated from the right end to the start of the tapered section.

HSS	ST	BS 328			A	 1:48
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215

B903

DORMER

-
- The diagram shows a horizontal tapered shaft. The total length is labeled l_1 . A section of length l_2 is the tapered part, starting from a diameter d_1 on the left and ending at diameter d_2 . The remaining length to the right end is a , where the diameter is d_3 .

HSS		DIN 9			B	 1:50
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■ 1.1 1.2 1.3 1.4 2.1 3.1 4.1 6.2
● 1.5 1.6 2.2 2.3 3.2 3.3 3.4 4.2 4.3 5.1 5.2 5.3 6.1 6.3 6.4 7.1 7.2 7.3 7.4 8.2



217

- Výstružník strojní
- Gépi Dörzsár
- Rozwiertak maszynowy
- Alezoare de masina
- Машинная развертка с прямым зубом
- povrtalo strojno



B500



- 3.1 4.1
- 3.2 3.3 3.4 6.2 6.3 6.4 8.2

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₉ mm	e-Code
2.0	49	11	24	4	2.0	B5002.0
2.5	57	14	28	4	2.5	B5002.5
3.0	61	15	32	6	3.0	B5003.0
3.5	70	18	40	6	3.5	B5003.5
4.0	75	19	43	6	4.0	B5004.0
4.5	80	21	47	6	4.5	B5004.5
5.0	86	23	52	6	5.0	B5005.0
6.0	93	26	57	6	5.6	B5006.0
7.0	109	31	69	6	7.1	B5007.0
8.0	117	33	75	6	8.0	B5008.0
9.0	125	36	81	6	9.0	B5009.0
10.0	133	38	87	6	10.0	B50010.0

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₉ mm	e-Code
11.0	142	41	96	6	10.0	B50011.0
12.0	151	44	105	6	10.0	B50012.0
13.0	151	44	105	6	10.0	B50013.0
14.0	160	47	110	8	12.5	B50014.0
15.0	162	50	112	8	12.5	B50015.0
16.0	170	52	120	8	12.5	B50016.0
17.0	175	54	123	8	14.0	B50017.0
18.0	182	56	130	8	14.0	B50018.0
19.0	189	58	131	8	16.0	B50019.0
20.0	195	60	137	8	16.0	B50020.0

B180

DORMER

- NC - přesný výstružník
- NC - Precíziós Dörzsár
- Rozvrtaki precyzyjne dla obrabiarek CNC
- Alezor de precizie pt NC
- Развертка для станков ЧПУ
- NC povrtalo precizno



B180



- 1.1 1.2 1.3 1.4 2.1 4.2 5.1
- 1.5 1.6 2.2 2.3 2.4 3.1 3.2 3.3 3.4 4.1 4.3 5.2 5.3 6.1 6.2 6.3 6.4

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₆ mm	e-Code
1.5	40	8	18	3	2	B1801.5
1.6	43	9	20	3	2	B1801.6
1.7	43	9	20	3	2	B1801.7
1.8	46	10	22	4	2	B1801.8
1.9	46	10	22	4	2	B1801.9
2.0	49	11	24	4	2	B1802.0
2.1	49	11	24	4	2	B1802.1
2.2	53	12	26	4	3	B1802.2
2.3	53	12	26	4	3	B1802.3
2.4	57	14	28	4	3	B1802.4
2.5	57	14	28	4	3	B1802.5
2.6	57	14	28	4	3	B1802.6
2.7	61	15	32	6	3	B1802.7
2.8	61	15	32	6	3	B1802.8
2.9	61	15	32	6	3	B1802.9
3.0	61	15	32	6	3	B1803.0
3.1	65	16	35	6	4	B1803.1
3.2	65	16	35	6	4	B1803.2
3.3	65	16	35	6	4	B1803.3
3.4	70	18	40	6	4	B1803.4
3.5	70	18	40	6	4	B1803.5
3.6	70	18	40	6	4	B1803.6
3.7	70	18	40	6	4	B1803.7
3.8	75	19	43	6	4	B1803.8
3.9	75	19	43	6	4	B1803.9
4.0	75	19	43	6	4	B1804.0
4.1	75	19	43	6	4	B1804.1
4.2	75	19	43	6	4	B1804.2
4.3	80	21	47	6	5	B1804.3
4.4	80	21	47	6	5	B1804.4
4.5	80	21	47	6	5	B1804.5
4.6	80	21	47	6	5	B1804.6
4.7	80	21	47	6	5	B1804.7
4.8	86	23	52	6	5	B1804.8
4.9	86	23	52	6	5	B1804.9
5.0	86	23	52	6	5	B1805.0
5.1	86	23	52	6	5	B1805.1
5.2	86	23	52	6	5	B1805.2
5.3	86	23	52	6	5	B1805.3
5.4	93	26	57	6	6	B1805.4
5.5	93	26	57	6	6	B1805.5
5.6	93	26	57	6	6	B1805.6
5.7	93	26	57	6	6	B1805.7
5.8	93	26	57	6	6	B1805.8
5.9	93	26	57	6	6	B1805.9
6.0	93	26	57	6	6	B1806.0
6.1	101	28	63	6	6	B1806.1
6.2	101	28	63	6	6	B1806.2

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₆ mm	e-Code
6.3	101	28	63	6	6	B1806.3
6.4	101	28	63	6	6	B1806.4
6.5	101	28	63	6	6	B1806.5
6.6	101	28	63	6	6	B1806.6
6.7	101	28	63	6	6	B1806.7
6.8	109	31	69	6	8	B1806.8
6.9	109	31	69	6	8	B1806.9
7.0	109	31	69	6	8	B1807.0
7.1	109	31	69	6	8	B1807.1
7.2	109	31	69	6	8	B1807.2
7.3	109	31	69	6	8	B1807.3
7.4	109	31	69	6	8	B1807.4
7.5	109	31	69	6	8	B1807.5
7.6	117	33	75	6	8	B1807.6
7.7	117	33	75	6	8	B1807.7
7.8	117	33	75	6	8	B1807.8
7.9	117	33	75	6	8	B1807.9
8.0	117	33	75	6	8	B1808.0
8.1	117	33	75	6	8	B1808.1
8.2	117	33	75	6	8	B1808.2
8.3	117	33	75	6	8	B1808.3
8.4	117	33	75	6	8	B1808.4
8.5	117	33	75	6	8	B1808.5
8.6	125	36	81	6	10	B1808.6
8.7	125	36	81	6	10	B1808.7
8.8	125	36	81	6	10	B1808.8
8.9	125	36	81	6	10	B1808.9
9.0	125	36	81	6	10	B1809.0
9.1	125	36	81	6	10	B1809.1
9.2	125	36	81	6	10	B1809.2
9.3	125	36	81	6	10	B1809.3
9.4	125	36	81	6	10	B1809.4
9.5	125	36	81	6	10	B1809.5
9.6	133	38	87	6	10	B1809.6
9.7	133	38	87	6	10	B1809.7
9.8	133	38	87	6	10	B1809.8
9.9	133	38	87	6	10	B1809.9
10.0	133	38	87	6	10	B18010.0
11.0	142	41	96	6	10	B18011.0
12.0	151	44	105	6	10	B18012.0
13.0	151	44	105	6	10	B18013.0
14.0	160	47	110	8	14	B18014.0
15.0	162	50	112	8	14	B18015.0
16.0	170	52	120	8	14	B18016.0
17.0	175	54	123	8	14	B18017.0
18.0	182	56	130	8	14	B18018.0
19.0	189	58	131	8	16	B18019.0
20.0	195	60	137	8	16	B18020.0

- NC - přesný výstružník
- NC – Precíziós dörzsár készlet
- Rozvrtaki precyzyjne dla obrabiarek CNC
- Alezor de precizie pt NC
- Набор разверток для станков с ЧПУ
- NC povrtalo precizno



B191

A = katalogové číslo jednotlivých výstružníků, B=počet výstružníků v sadě, C=rozměry v sadě / A = Típusok a készletben, B=Fúrók száma a készletben, C=Átmérők a készletben / A = Zakres średnic w komplecie, B=Ilość wiertel w komplecie, C=Zakres średnic występujący w komplecie / A = Types in Set, B=Nr. burghie in Set, C=Diametre in Set / B=кол-во сверл в наборе, C=диаметры в наборе / A = v setu, B=Št.svedrov v grt, C=Premeri v grt



Nr.	A	B	C	e-Code
10S	B180 type inside	10 pcs	1.5mm 2.0mm 3.0mm 4.0mm 5.0mm 6.0mm 7.0mm 8.0mm 10.0mm 12.0mm	B19110S

- NC - setinový výstružník pro vysoce přesné upnutí
- Alezor NC, centesimale pentru portscule de precizie
- NC - dörzsár nagy pontosságú befogótokmányhoz
- Развертка для станков с ЧПУ
- NC- Rozwiertak Precyzyjny przeznaczony do mocowania w dokładnych uchwytach
- NC precizno povrtalo za visokoprecizna vpenjala



B181



- 1.1 1.2 1.3 1.4 2.1 4.2 5.1
- 1.5 1.6 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.3 5.2 5.3 6.1 6.2 6.3 6.4

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₆ mm	e-Code
1.00	34	5.5	15	3	1	B1811.00
1.01	34	5.5	15	3	1	B1811.01
1.02	34	5.5	15	3	1	B1811.02
1.50	40	8.0	18	3	2	B1811.50
1.51	43	9.0	20	3	2	B1811.51
1.52	43	9.0	20	3	2	B1811.52
1.97	49	11.0	24	4	2	B1811.97
1.98	49	11.0	24	4	2	B1811.98
1.99	49	11.0	24	4	2	B1811.99
2.00	49	11.0	24	4	2	B1812.00
2.01	49	11.0	24	4	2	B1812.01
2.02	49	11.0	24	4	2	B1812.02
2.48	57	14.0	28	4	3	B1812.48
2.49	57	14.0	28	4	3	B1812.49
2.50	57	14.0	28	4	3	B1812.50
2.51	57	14.0	28	4	3	B1812.51
2.52	57	14.0	28	4	3	B1812.52
2.97	61	15.0	32	6	3	B1812.97
2.98	61	15.0	32	6	3	B1812.98
2.99	61	15.0	32	6	3	B1812.99
3.00	61	15.0	32	6	3	B1813.00
3.01	65	16.0	35	6	4	B1813.01
3.02	65	16.0	35	6	4	B1813.02
3.97	75	19.0	43	6	4	B1813.97
3.98	75	19.0	43	6	4	B1813.98
3.99	75	19.0	43	6	4	B1813.99
4.00	75	19.0	43	6	4	B1814.00
4.01	75	19.0	43	6	4	B1814.01
4.02	75	19.0	43	6	4	B1814.02
4.97	86	23.0	52	6	5	B1814.97
4.98	86	23.0	52	6	5	B1814.98
4.99	86	23.0	52	6	5	B1814.99
5.00	86	23.0	52	6	5	B1815.00
5.01	86	23.0	52	6	5	B1815.01
5.02	86	23.0	52	6	5	B1815.02
5.97	93	26.0	57	6	6	B1815.97
5.98	93	26.0	57	6	6	B1815.98
5.99	93	26.0	57	6	6	B1815.99
6.00	93	26.0	57	6	6	B1816.00
6.01	101	28.0	63	6	6	B1816.01
6.02	101	28.0	63	6	6	B1816.02
7.97	117	33.0	75	6	8	B1817.97
7.98	117	33.0	75	6	8	B1817.98
7.99	117	33.0	75	6	8	B1817.99
8.00	117	33.0	75	6	8	B1818.00
8.01	117	33.0	75	6	8	B1818.01
8.02	117	33.0	75	6	8	B1818.02
9.00	125	36.0	81	6	10	B1819.00
9.01	125	36.0	81	6	10	B1819.01
9.02	125	36.0	81	6	10	B1819.02
9.97	133	38.0	87	6	10	B1819.97
9.98	133	38.0	87	6	10	B1819.98
9.99	133	38.0	87	6	10	B1819.99
10.00	133	38.0	87	6	10	B18110.00
10.01	133	38.0	87	6	10	B18110.01
10.02	133	38.0	87	6	10	B18110.02
11.97	151	44.0	105	6	10	B18111.97
11.98	151	44.0	105	6	10	B18111.98
11.99	151	44.0	105	6	10	B18111.99
12.00	151	44.0	105	6	10	B18112.00

- Výstružník strojní
- Gépi Dörzsár
- Rozwiertak maszynowy
- Alezoare de masina
- Машинная развертка со спиральным зубом
- povrtalo strojno



B156



- 1.1 1.2 1.3 1.4 2.1 4.2 5.1
- 1.5 1.6 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.3 5.2 5.3 6.1 6.2 6.3 6.4

d_1 Ø mm	l_1 mm	l_2 mm	l_3 mm	z	d_2 Ø h_9 mm	e-Code
1.5	40	8	18	3	1.5	B1561.5
1.6	43	9	20	3	1.6	B1561.6
1.8	46	10	22	4	1.8	B1561.8
2.0	49	11	24	4	2.0	B1562.0
2.2	53	12	26	4	2.2	B1562.2
2.5	57	14	28	4	2.5	B1562.5
2.8	61	15	32	6	2.8	B1562.8
3.0	61	15	32	6	3.0	B1563.0
3.2	65	16	35	6	3.2	B1563.2
3.5	70	18	40	6	3.5	B1563.5
4.0	75	19	43	6	4.0	B1564.0
4.5	80	21	47	6	4.5	B1564.5
5.0	86	23	52	6	5.0	B1565.0
5.5	93	26	57	6	5.6	B1565.5
6.0	93	26	57	6	5.6	B1566.0
6.5	101	28	63	6	6.3	B1566.5

d_1 Ø mm	l_1 mm	l_2 mm	l_3 mm	z	d_2 Ø h_9 mm	e-Code
7.0	109	31	69	6	7.1	B1567.0
8.0	117	33	75	6	8.0	B1568.0
9.0	125	36	81	6	9.0	B1569.0
10.0	133	38	87	6	10.0	B15610.0
11.0	142	41	96	6	10.0	B15611.0
12.0	151	44	105	6	10.0	B15612.0
13.0	151	44	105	6	10.0	B15613.0
14.0	160	47	110	8	12.5	B15614.0
15.0	162	50	112	8	12.5	B15615.0
16.0	170	52	120	8	12.5	B15616.0
17.0	175	54	123	8	14.0	B15617.0
18.0	182	56	130	8	14.0	B15618.0
19.0	189	58	131	8	16.0	B15619.0
20.0	195	60	137	8	16.0	B15620.0

- Výstružník strojní, setinný
- Tizedes gépi dörzsár
- Rozwiertak maszynowy
- Alezor de masina centesimal
- Машинная развертка со спиральным зубом
- Strojno povrtalo



B170



- 1.1 1.2 1.3 1.4 2.1 4.2 5.1
- 1.5 1.6 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.3 5.2 5.3 6.1 6.2 6.3 6.4

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₉ mm	e-Code
0.98	34	5.5	15	3	1.0	B170.98
0.99	34	5.5	15	3	1.0	B170.99
1.00	34	5.5	15	3	1.0	B1701.0
1.01	34	5.5	15	3	1.0	B1701.01
1.02	34	5.5	15	3	1.0	B1701.02
1.03	34	5.5	15	3	1.0	B1701.03
1.04	34	5.5	15	3	1.0	B1701.04
1.05	34	5.5	15	3	1.0	B1701.05
1.49	40	8.0	18	3	1.5	B1701.49
1.50	40	8.0	18	3	1.5	B1701.5
1.51	43	9.0	20	3	1.6	B1701.51
1.52	43	9.0	20	3	1.6	B1701.52
1.98	49	11.0	24	4	2.0	B1701.98
1.99	49	11.0	24	4	2.0	B1701.99
2.00	49	11.0	24	4	2.0	B1702.0
2.01	49	11.0	24	4	2.0	B1702.01
2.02	49	11.0	24	4	2.0	B1702.02
2.03	49	11.0	24	4	2.0	B1702.03
2.04	49	11.0	24	4	2.0	B1702.04
2.05	49	11.0	24	4	2.0	B1702.05
2.49	57	14.0	28	4	2.5	B1702.49
2.50	57	14.0	28	4	2.5	B1702.5
2.51	57	14.0	28	4	2.5	B1702.51
2.52	57	14.0	28	4	2.5	B1702.52
2.98	61	15.0	32	6	3.0	B1702.98
2.99	61	15.0	32	6	3.0	B1702.99
3.00	61	15.0	32	6	3.0	B1703.0
3.01	65	16.0	35	6	3.2	B1703.01
3.02	65	16.0	35	6	3.2	B1703.02
3.03	65	16.0	35	6	3.2	B1703.03
3.04	65	16.0	35	6	3.2	B1703.04
3.05	65	16.0	35	6	3.2	B1703.05
3.49	70	18.0	40	6	3.5	B1703.49
3.50	70	18.0	40	6	3.5	B1703.5
3.51	70	18.0	40	6	3.5	B1703.51
3.52	70	18.0	40	6	3.5	B1703.52
3.98	75	19.0	43	6	4.0	B1703.98
3.99	75	19.0	43	6	4.0	B1703.99
4.00	75	19.0	43	6	4.0	B1704.0
4.01	75	19.0	43	6	4.0	B1704.01
4.02	75	19.0	43	6	4.0	B1704.02
4.03	75	19.0	43	6	4.0	B1704.03
4.04	75	19.0	43	6	4.0	B1704.04
4.05	75	19.0	43	6	4.0	B1704.05

d ₁ Ø mm	l ₁ mm	l ₂ mm	l ₃ mm	z	d ₂ Øh ₉ mm	e-Code
4.49	80	21.0	47	6	4.5	B1704.49
4.50	80	21.0	47	6	4.5	B1704.5
4.51	80	21.0	47	6	4.5	B1704.51
4.52	80	21.0	47	6	4.5	B1704.52
4.98	86	23.0	52	6	5.0	B1704.98
4.99	86	23.0	52	6	5.0	B1704.99
5.00	86	23.0	52	6	5.0	B1705.0
5.01	86	23.0	52	6	5.0	B1705.01
5.02	86	23.0	52	6	5.0	B1705.02
5.03	86	23.0	52	6	5.0	B1705.03
5.04	86	23.0	52	6	5.0	B1705.04
5.05	86	23.0	52	6	5.0	B1705.05
5.49	93	26.0	57	6	5.6	B1705.49
5.50	93	26.0	57	6	5.6	B1705.5
5.51	93	26.0	57	6	5.6	B1705.51
5.52	93	26.0	57	6	5.6	B1705.52
5.98	93	26.0	57	6	5.6	B1705.98
5.99	93	26.0	57	6	5.6	B1705.99
6.00	93	26.0	57	6	5.6	B1706.0
6.01	101	28.0	63	6	6.3	B1706.01
6.02	101	28.0	63	6	6.3	B1706.02
6.03	101	28.0	63	6	6.3	B1706.03
6.04	101	28.0	63	6	6.3	B1706.04
6.05	101	28.0	63	6	6.3	B1706.05
6.49	101	28.0	63	6	6.3	B1706.49
6.50	101	28.0	63	6	6.3	B1706.5
6.51	101	28.0	63	6	6.3	B1706.51
6.52	101	28.0	63	6	6.3	B1706.52
6.98	109	31.0	69	6	7.1	B1706.98
6.99	109	31.0	69	6	7.1	B1706.99
7.00	109	31.0	69	6	7.1	B1707.0
7.01	109	31.0	69	6	7.1	B1707.01
7.02	109	31.0	69	6	7.1	B1707.02
7.03	109	31.0	69	6	7.1	B1707.03
7.04	109	31.0	69	6	7.1	B1707.04
7.05	109	31.0	69	6	7.1	B1707.05
7.49	109	31.0	69	6	7.1	B1707.49
7.50	109	31.0	69	6	7.1	B1707.5
7.51	117	33.0	75	6	8.0	B1707.51
7.52	117	33.0	75	6	8.0	B1707.52
7.98	117	33.0	75	6	8.0	B1707.98
7.99	117	33.0	75	6	8.0	B1707.99
8.00	117	33.0	75	6	8.0	B1708.0
8.01	117	33.0	75	6	8.0	B1708.01

d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Øh ₉	e-Code
8.02	117	33.0	75	6	8.0	B1708.02
8.03	117	33.0	75	6	8.0	B1708.03
8.04	117	33.0	75	6	8.0	B1708.04
8.05	117	33.0	75	6	8.0	B1708.05
8.49	117	33.0	75	6	8.0	B1708.49
8.50	117	33.0	75	6	8.0	B1708.5
8.51	125	36.0	81	6	9.0	B1708.51
8.52	125	36.0	81	6	9.0	B1708.52
8.98	125	36.0	81	6	9.0	B1708.98
8.99	125	36.0	81	6	9.0	B1708.99
9.00	125	36.0	81	6	9.0	B1709.0
9.01	125	36.0	81	6	9.0	B1709.01
9.02	125	36.0	81	6	9.0	B1709.02
9.03	125	36.0	81	6	9.0	B1709.03
9.04	125	36.0	81	6	9.0	B1709.04
9.05	125	36.0	81	6	9.0	B1709.05
9.49	125	36.0	81	6	9.0	B1709.49
9.50	125	36.0	81	6	9.0	B1709.5
9.51	133	38.0	87	6	10.0	B1709.51
9.52	133	38.0	87	6	10.0	B1709.52
9.98	133	38.0	87	6	10.0	B1709.98
9.99	133	38.0	87	6	10.0	B1709.99
10.00	133	38.0	87	6	10.0	B17010.0
10.01	133	38.0	87	6	10.0	B17010.01

d ₁ Ø	l ₁	l ₂	l ₃	z	d ₂ Øh ₉	e-Code
10.02	133	38.0	87	6	10.0	B17010.02
10.03	133	38.0	87	6	10.0	B17010.03
10.04	133	38.0	87	6	10.0	B17010.04
10.05	133	38.0	87	6	10.0	B17010.05
10.49	133	38.0	87	6	10.0	B17010.49
10.50	133	38.0	87	6	10.0	B17010.5
10.51	133	38.0	87	6	10.0	B17010.51
10.52	133	38.0	87	6	10.0	B17010.52
10.98	142	41.0	96	6	10.0	B17010.98
10.99	142	41.0	96	6	10.0	B17010.99
11.00	142	41.0	96	6	10.0	B17011.0
11.01	142	41.0	96	6	10.0	B17011.01
11.02	142	41.0	96	6	10.0	B17011.02
11.03	142	41.0	96	6	10.0	B17011.03
11.04	142	41.0	96	6	10.0	B17011.04
11.05	142	41.0	96	6	10.0	B17011.05
11.49	142	41.0	96	6	10.0	B17011.49
11.50	142	41.0	96	6	10.0	B17011.5
11.51	142	41.0	96	6	10.0	B17011.51
11.52	142	41.0	96	6	10.0	B17011.52
11.98	151	44.0	105	6	10.0	B17011.98
11.99	151	44.0	105	6	10.0	B17011.99
12.00	151	44.0	105	6	10.0	B17012.0

B901

DORMER

- Výstružník strojní
- Gépi Dörzsár
- Rozwiertak maszynowy
- Alezoare de masina
- Машинная развертка со спиральным зубом
- povrtalo strojno



B901

d2=d1-0.025



- 1.1 1.2 1.3 1.4 2.1 3.1 4.1 6.2
- 1.5 1.6 3.2 3.3 3.4 4.2 4.3 5.1 5.2 5.3 6.1 6.3 6.4 7.1 7.2 8.2

d ₁ Ø	d ₁ Ø	l ₁	l ₂	z	e-Code
Inch	mm	mm	mm		
	1.50	44	21	4	B9011.5
1/16	1.59	44	21	4	B9011/16
	2.00	50	25	4	B9012.0
3/32	2.38	58	29	4	B9013/32
	2.50	58	29	4	B9012.5
	3.00	62	31	4	B9013.0
1/8	3.18	66	33	4	B9011/8
	3.50	71	35	4	B9013.5
9/64	3.57	71	35	4	B9019/64
5/32	3.97	76	38	6	B9015/32
	4.00	76	38	6	B9014.0
11/64	4.37	81	41	6	B90111/64
	4.50	81	41	6	B9014.5
3/16	4.76	87	44	6	B9013/16
	5.00	87	44	6	B9015.0
13/64	5.16	87	44	6	B90113/64
	5.50	93	47	6	B9015.5
7/32	5.56	93	47	6	B9017/32

d ₁ Ø	d ₁ Ø	l ₁	l ₂	z	e-Code
Inch	mm	mm	mm		
15/64	5.95	93	47	6	B90115/64
	6.00	93	47	6	B9016.0
1/4	6.35	100	50	6	B9011/4
	7.00	107	54	6	B9017.0
9/32	7.14	107	54	6	B9019/32
5/16	7.94	115	58	6	B9015/16
	8.00	115	58	6	B9018.0
11/32	8.73	124	62	6	B90111/32
	9.00	124	62	6	B9019.0
3/8	9.53	133	66	6	B9013/8
	10.00	133	66	6	B90110.0
13/32	10.32	133	66	6	B90113/32
	11.00	142	71	6	B90111.0
7/16	11.11	142	71	6	B9017/16
	12.00	152	76	6	B90112.0
1/2	12.70	152	76	6	B9011/2

- Strojní výstružník, levotočivá šroubovice 45°
- Gépi dörzsár, 45°-os balos spirállal
- Rozwiertak Maszynowy Lewy kąt rowka wiórowego 45st.
- Alezor de masina, canale stanga 45°
- Машинная развертка с левосторонней спиралью 45°
- Strojno povrtalo, leva vijačnica 45°



B157

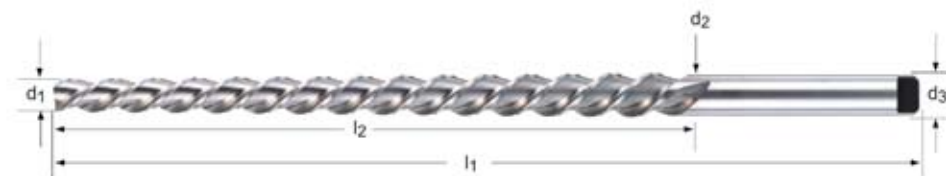


■	2.1	2.2	2.3	4.1	4.2	4.3	5.1	5.2	5.3	6.1	7.1	7.2	7.3	7.4	8.1
●	1.1	1.2	1.3	1.4	1.5	1.6	6.2	9.1							

d_1 Ø mm	l_1 mm	l_2 mm	l_3 mm	z	d_2 Ø _{h9} mm	e-Code
2.0	49	11	24	3	2.0	B1572.0
3.0	61	15	32	3	3.0	B1573.0
4.0	75	19	43	3	4.0	B1574.0
5.0	86	23	52	3	5.0	B1575.0
6.0	93	26	57	3	5.6	B1576.0
7.0	109	31	69	3	7.1	B1577.0
8.0	117	33	75	3	8.0	B1578.0
9.0	125	36	81	3	9.0	B1579.0
10.0	133	38	87	3	10.0	B15710.0
11.0	142	41	96	3	10.0	B15711.0

d_1 Ø mm	l_1 mm	l_2 mm	l_3 mm	z	d_2 Ø _{h9} mm	e-Code
12.0	151	44	105	3	10.0	B15712.0
13.0	151	44	105	3	10.0	B15713.0
14.0	160	47	110	3	12.5	B15714.0
15.0	162	50	112	3	12.5	B15715.0
16.0	170	52	120	3	12.5	B15716.0
17.0	175	54	123	3	14.0	B15717.0
18.0	182	56	130	3	14.0	B15718.0
19.0	189	58	131	3	16.0	B15719.0
20.0	195	60	137	3	16.0	B15720.0

- Strojní výstružník pro kuželové kolíky, levotočivá šroubovice 45°
- Gépi, kúpdörzsár, 45°-os balos spirállal
- Rozwiertak Maszynowy pod Kolki Stożkowe Lewy, kąt rowka wiórowego 45st.
- Alezor de masina, pentru stifturi conice, canale stanga 45°
- Машинная коническая развертка с левосторонней спиралью 45°
- Stronjo konično povrtalo, leva vijačnica 45°, cilindrično vpetje



B953

Hrot dle DIN 1809 / Menesztő a DIN 1809 szabvány szerint / Chwyt zgodnie z DIN 1809 / Antrenor conf. DIN 1809 /
 Согласно DIN 1809 / DIN 1809



■	2.1	2.2	2.3	4.1	4.2	4.3	5.1	5.2	5.3	6.1	7.1	7.2	7.3	7.4	8.1
●	1.1	1.2	1.3	1.4	1.5	1.6	6.2	9.1							

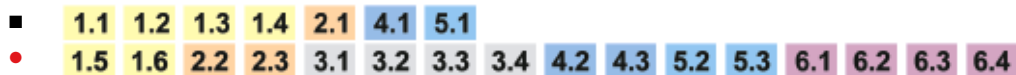
nom Ø	d ₁ Ø mm	d ₂ Ø mm	l ₁ mm	l ₂ mm	z	d ₃ Ø _{h₉} mm	e-Code
1.0	0.8	1.46	60	33	2	1.4	B9531.0
1.5	1.4	2.14	70	37	2	2.1	B9531.5
2.0	1.9	2.86	86	48	3	3.15	B9532.0
2.5	2.4	3.36	86	48	3	3.15	B9532.5
3.0	2.9	4.06	100	58	3	4.0	B9533.0
4.0	3.9	5.26	112	68	3	5.0	B9534.0

nom Ø	d ₁ Ø mm	d ₂ Ø mm	l ₁ mm	l ₂ mm	z	d ₃ Ø _{h₉} mm	e-Code
5.0	4.9	6.36	122	73	3	6.3	B9535.0
6.0	5.9	8.00	160	105	3	8.0	B9536.0
6.5	6.4	8.78	188	119	3	8.5	B9536.5
8.0	7.9	10.80	207	145	3	10.0	B9538.0
10.0	9.9	13.40	245	175	3	12.5	B95310.0
12.0	11.8	16.00	290	210	3	16.0	B95312.0

- | | | |
|----------------------|--|------------------------|
| • Výstružník strojní | • Kúpos szárú gépi dörzsár | • Rozwiertak maszynowy |
| • Alezoare de masina | • Машинная развертка со спиральным зубом | • povrtalo strojno |



B161



d_1 $\emptyset$	l_1	l_2	l_3			
mm	mm	mm	mm	z	MK	e-Code
3.0	113	15	47.5	6	1	B1613.0
4.0	124	19	58.5	6	1	B1614.0
5.0	133	23	67.5	6	1	B1615.0
6.0	138	26	72.5	6	1	B1616.0
7.0	150	31	84.5	6	1	B1617.0
8.0	156	33	90.5	6	1	B1618.0
9.0	162	36	96.5	6	1	B1619.0
10.0	168	38	102.5	6	1	B16110.0
11.0	175	41	109.5	6	1	B16111.0
12.0	182	44	116.5	6	1	B16112.0
13.0	182	44	116.5	6	1	B16113.0
14.0	189	47	123.5	8	1	B16114.0
15.0	204	50	124	8	2	B16115.0
16.0	210	52	130	8	2	B16116.0
17.0	214	54	134	8	2	B16117.0
18.0	219	56	139	8	2	B16118.0
19.0	223	58	143	8	2	B16119.0
20.0	228	60	148	8	2	B16120.0
21.0	232	62	152	8	2	B16121.0
22.0	237	64	157	8	2	B16122.0
23.0	241	66	161	8	2	B16123.0
24.0	268	68	169	8	3	B16124.0

d_i $\emptyset$	l_1	l_2	l_3			
mm	mm	mm	mm	z	MK	e-Code
25.0	268	68	169	8	3	B16125.0
26.0	273	70	174	8	3	B16126.0
27.0	277	71	178	10	3	B16127.0
28.0	277	71	178	10	3	B16128.0
29.0	281	73	182	10	3	B16129.0
30.0	281	73	182	10	3	B16130.0
31.0	285	75	186	10	3	B16131.0
32.0	317	77	193	10	4	B16132.0
33.0	317	77	193	10	4	B16133.0
34.0	321	78	197	10	4	B16134.0
35.0	321	78	197	10	4	B16135.0
36.0	325	79	201	10	4	B16136.0
38.0	329	81	205	10	4	B16138.0
40.0	329	81	205	10	4	B16140.0
42.0	333	82	209	12	4	B16142.0
44.0	336	83	212	12	4	B16144.0
45.0	336	83	212	12	4	B16145.0
46.0	340	84	216	12	4	B16146.0
47.0	340	84	216	12	4	B16147.0
48.0	344	86	220	12	4	B16148.0
50.0	344	86	220	12	4	B16150.0

- Výstružník strojní
- Kúpos szárú gépi dörzsár
- Rozwiertak maszynowy
- Alezoare de masina
- Машинная развертка со спиральным зубом
- povrtalo strojno



B101



- 1.1 1.2 1.3 1.4 2.1 3.1 4.1 6.2
- 1.5 1.6 3.2 3.3 3.4 4.2 4.3 5.1 5.2 5.3 6.1 6.3 6.4 7.1 7.2 8.2

d ₁ Ø	d ₁ Ø	l ₁	l ₂	z	MK	e-Code
Inch	mm	mm	mm			
1/8	3.00	112	33	4	1	B1013.0
	3.18	112	33	4	1	B1011/8
	3.50	115	35	6	1	B1013.5
5/32	3.97	117	38	6	1	B1015/32
	4.00	117	38	6	1	B1014.0
	4.50	120	41	6	1	B1014.5
3/16	4.76	124	44	6	1	B1013/16
	5.00	124	44	6	1	B1015.0
	5.50	127	47	6	1	B1015.5
7/32	5.56	127	47	6	1	B1017/32
	6.00	127	47	6	1	B1016.0
1/4	6.35	130	50	6	1	B1011/4
	6.50	130	50	6	1	B1016.5
	7.00	134	54	6	1	B1017.0
9/32	7.14	134	54	6	1	B1019/32
	7.50	134	54	6	1	B1017.5
	7.94	138	58	6	1	B1015/16
5/16	8.00	138	58	6	1	B1018.0
	8.50	138	58	6	1	B1018.5
11/32	8.73	142	62	6	1	B10111/32
	9.00	142	62	6	1	B1019.0
	9.50	142	62	6	1	B1019.5
3/8	9.53	146	66	6	1	B1013/8
	10.00	146	66	6	1	B10110.0
	10.32	146	66	6	1	B10113/32
13/32	10.50	146	66	6	1	B10110.5
	11.00	151	71	6	1	B10111.0
	11.11	151	71	6	1	B1017/16
7/16	11.50	151	71	6	1	B10111.5
	11.91	156	76	6	1	B10115/32
	12.00	156	76	6	1	B10112.0
15/32	12.50	156	76	6	1	B10112.5
	12.70	156	76	6	1	B1011/2
	13.00	156	76	6	1	B10113.0
17/32	13.49	161	81	6	1	B10117/32
	13.50	161	81	6	1	B10113.5
	14.00	161	81	8	1	B10114.0
9/16	14.29	181	81	8	2	B1019/16
	14.50	181	81	8	2	B10114.5
	15.00	181	81	8	2	B10115.0
19/32	15.08	187	87	8	2	B10119/32
	15.50	187	87	8	2	B10115.5
	15.88	187	87	8	2	B1015/8
5/8	16.00	187	87	8	2	B10116.0
	16.50	187	87	8	2	B10116.5
	17.00	187	87	8	2	B10117.0

d ₁ Ø	d ₁ Ø	l ₁	l ₂	z	MK	e-Code
Inch	mm	mm	mm			
11/16	17.46	193	93	8	2	B10111/16
	18.00	193	93	8	2	B10118.0
	19.00	193	93	8	2	B10119.0
3/4	19.05	200	100	8	2	B1013/4
	20.00	200	100	8	2	B10120.0
	20.64	200	100	8	2	B10113/16
13/16	21.00	200	100	8	2	B10121.0
	22.00	207	107	8	2	B10122.0
	22.23	207	107	8	2	B1017/8
7/8	23.00	207	107	8	2	B10123.0
	23.81	242	115	8	3	B10115/16
	24.00	242	115	8	3	B10124.0
15/16	25.00	242	115	10	3	B10125.0
	25.40	242	115	10	3	B1011
	26.00	242	115	10	3	B10126.0
1.1/16	26.99	251	124	10	3	B1011.1/16
	27.00	251	124	10	3	B10127.0
	28.00	251	124	10	3	B10128.0
1.1/8	28.58	251	124	10	3	B1011.1/8
	29.00	251	124	10	3	B10129.0
	30.00	251	124	10	3	B10130.0
1.3/16	30.16	260	133	10	3	B1011.3/16
	31.00	260	133	10	3	B10131.0
	31.75	260	133	10	3	B1011.1/4
1.1/4	32.00	293	133	10	4	B10132.0
	33.00	293	133	10	4	B10133.0
	34.00	302	142	10	4	B10134.0
1.3/8	34.93	302	142	10	4	B1011.3/8
	35.00	302	142	10	4	B10135.0
	36.00	302	142	10	4	B10136.0
1.1/2	37.00	302	142	10	4	B10137.0
	38.00	312	152	10	4	B10138.0
	38.10	312	152	10	4	B1011.1/2
1.3/4	39.00	312	152	10	4	B10139.0
	40.00	312	152	10	4	B10140.0
	41.00	312	152	10	4	B10141.0
1.3/4	42.00	312	152	10	4	B10142.0
	43.00	323	163	10	4	B10143.0
	44.00	323	163	10	4	B10144.0
1.3/4	44.45	323	163	10	4	B1011.3/4
	45.00	323	163	12	4	B10145.0
	46.00	323	163	12	4	B10146.0
2"	47.00	323	163	12	4	B10147.0
	48.00	334	174	12	4	B10148.0
	50.00	334	174	12	4	B10150.0
2"	50.80	334	174	12	4	B1012

- Strojní výstružník, levotočivá šroubovice 45°
- Kúpos szárú gépi dörzsár 45°-os balos spirállal
- Rozwiertak Maszynowy Lewy kąt rowka wiórowego 45st.
- Alezor de masina, canale stanga 45°
- Машинная развертка с левосторонней спиралью 45°
- Strojno povrtalo, leva vijačnica 45°



B162



■	1.1	1.2	1.3	1.4	2.1	4.1	5.1	7.1	7.2	7.3	7.4	8.1
●	1.5	1.6	2.2	2.3	3.1	4.2	4.3	5.2	5.3	6.1	6.2	9.1

d ₁ Ø	l ₁	l ₂	l ₃	z	MK	e-Code
8.0	156	33	90.5	3	1	B1628.0
10.0	168	38	102.5	3	1	B16210.0
12.0	182	44	116.5	3	1	B16212.0
13.0	182	44	116.5	3	1	B16213.0
14.0	189	47	123.5	3	1	B16214.0
16.0	210	52	130	3	2	B16216.0
17.0	214	54	134	3	2	B16217.0
18.0	219	56	139	3	2	B16218.0

d ₁ Ø	l ₁	l ₂	l ₃	z	MK	e-Code
20.0	228	60	148	3	2	B16220.0
22.0	237	64	157	3	2	B16222.0
24.0	268	68	169	3	3	B16224.0
25.0	268	68	169	3	3	B16225.0
28.0	277	71	178	3	3	B16228.0
30.0	281	73	182	3	3	B16230.0
32.0	317	77	193	3	4	B16232.0

- Výstružník s kuželovým náběhem - spirálový
- Kúpos Szárú Szegecslyukdörzsár
- Rozwiertak do otworów w konstrukcjach stalowych - Skretny
- Alezor conic cu coada Morse
- Коническая развертка со спиральным зубом и конусом Морзе
- Povrtalo strojno z MK držalom, konicno



B121

S náběhovým kuželem 1:10 (l3) / 1/10-es kúposság / Z 1:10 początkowa zbieżność (l3) / Cu con de atac 1:10 (l3) / Конусность 1:10 по длине l3 / Začetni konus je 1:10



■	1.1	1.2	1.3	1.4	3.1	4.1	
●	1.5	1.6	3.2	3.3	3.4	7.2	8.2

d ₁ Ø	l ₁	l ₃	l ₂	z	MK	e-Code
mm	mm	mm	mm			
10.0	171	30	95	4	1	B12110.0
11.0	176	33	100	4	1	B12111.0
12.0	199	39	105	4	2	B12112.0
13.0	199	39	105	4	2	B12113.0
14.0	209	42	115	4	2	B12114.0
15.0	219	45	125	4	2	B12115.0
16.0	229	48	135	4	2	B12116.0
17.0	251	51	135	4	3	B12117.0
18.0	261	58	145	4	3	B12118.0
19.0	261	58	145	4	3	B12119.0

d ₁ Ø	l ₁	l ₃	l ₂	z	MK	e-Code
mm	mm	mm	mm			
20.0	271	62	155	4	3	B12120.0
21.0	271	62	155	4	3	B12121.0
22.0	281	66	165	4	3	B12122.0
23.0	281	66	165	4	3	B12123.0
24.0	296	72	180	4	3	B12124.0
25.0	296	72	180	4	3	B12125.0
26.0	296	72	180	4	3	B12126.0
30.0	311	78	195	5	3	B12130.0

- Strojní výstružník pro kuželové kolíky, levotočivá šroubovice 45°
- Gépi, kúpdörzsár, 45°-os balos spirállal
- Rozwiertak Maszynowy pod Kolki Stożkowe Lewy, ką rowka wiórowego 45st.
- Alezor de masina, pentru stifturi conice, canale stanga 45°
- Машинная коническая развертка с левосторонней спиралью 45°
- Stronjo konično povrtalo, leva vijajčnica 45°, cilindrično vpetje



B954



■	2.1	2.2	2.3	4.1	4.2	4.3	5.1	5.2	5.3	6.1	7.1	7.2	7.3	7.4	8.1
●	1.1	1.2	1.3	1.4	1.5	1.6	6.2	9.1							

nom Ø	d_1 Ø mm	d_2 Ø mm	l_1 mm	l_2 mm	z	MK	e-Code
5.0	4.90	6.36	155	73	3	1	B9545.0
6.0	5.90	8.00	187	105	3	1	B9546.0
8.0	7.90	10.80	227	145	3	1	B9548.0
10.0	9.90	13.40	257	175	3	1	B95410.0
12.0	11.80	16.00	315	210	3	2	B95412.0
13.0	12.86	16.74	295	194	3	2	B95413.0

nom Ø	d_1 Ø mm	d_2 Ø mm	l_1 mm	l_2 mm	z	MK	e-Code
14.0	13.86	17.74	295	194	3	2	B95414.0
16.0	15.80	20.40	335	230	3	2	B95416.0
20.0	19.80	24.80	377	250	3	3	B95420.0
25.0	24.70	30.70	427	300	3	3	B95425.0
30.0	29.70	36.10	475	320	4	4	B95430.0

- Nástrčný výstružník
- Feltűzhető Dörzsár
- Rozwiertak nasadzany
- Alezor cu alezaj
- Сменная головка для насадной развертки
- povrtalo nasadno



B955

d2=nominální průměr d1 B956 / d2 = B956 d1 nominális átmérője / d2=Średnica nominalna d1 rozwiertaka B956 / d2=Diametrul nominal d1 al B956 / d2=номинальному диаметру d1развертки B956 / d2=nominalni premer d1 od B956



■	1.1	1.2	1.3	1.4	2.1	4.1	5.1										
●	1.5	1.6	2.2	2.3	3.1	4.2	4.3	5.2	5.3	6.1	6.2	7.1	7.2	7.3	7.4	8.2	

d ₁ Ø	l ₁	l ₂	z	d ₂ Ø	e-Code
mm	mm	mm		mm	
25.0	45	32	8	13	B95525.0
26.0	45	32	8	13	B95526.0
27.0	45	32	8	13	B95527.0
28.0	45	32	8	13	B95528.0
29.0	45	32	8	13	B95529.0
30.0	45	32	8	13	B95530.0
31.0	50	36	10	16	B95531.0
32.0	50	36	10	16	B95532.0
34.0	50	36	10	16	B95534.0
35.0	50	36	10	16	B95535.0
36.0	56	40	10	19	B95536.0
37.0	56	40	10	19	B95537.0
38.0	56	40	10	19	B95538.0
40.0	56	40	10	19	B95540.0

d ₁ Ø	l ₁	l ₂	z	d ₂ Ø	e-Code
mm	mm	mm		mm	
42.0	56	40	10	19	B95542.0
44.0	63	45	12	22	B95544.0
45.0	63	45	12	22	B95545.0
48.0	63	45	12	22	B95548.0
50.0	63	45	12	22	B95550.0
52.0	71	50	12	27	B95552.0
55.0	71	50	12	27	B95555.0
58.0	71	50	12	27	B95558.0
60.0	71	50	12	27	B95560.0
65.0	80	56	14	32	B95565.0
70.0	80	56	14	32	B95570.0
75.0	90	63	14	40	B95575.0
80.0	90	63	14	40	B95580.0

- Trn pro nástrčný výstružník
- Feltűzhető Dörzsár Tengely
- Oprawka pod frez nasadzany
- Ax alezor
- Хвостовик насадной развертки
- povrtalo nasadno nastavljivo



B956



d_1 Ø	l_1	l_2	l_3	MK	e-Code
mm	mm	mm	mm		
13.0	250	45	151	3	B95613.0
16.0	261	50	162	3	B95616.0
19.0	298	56	174	4	B95619.0
22.0	312	63	188	4	B95622.0

d_1 Ø	l_1	l_2	l_3	MK	e-Code
mm	mm	mm	mm		
27.0	359	71	203	5	B95627.0
32.0	376	80	220	5	B95632.0
40.0	396	90	240	5	B95640.0

B957



- Trn pro nástrčný výstružník - náhradní díly (B956)
- Ax alezor - Piese schimb (B956)
- Feltűzhető Dörzsár Tengely - Pótalkatrész
- Оправка для насадной развертки
- Oprawka pod frez nasadzany - Części zamienne dla (B956)
- povrtalo nasadno nastavljivo - rezervni del



B957

Nr.	d	e-Code
3	13.00	B957N3DRIVER
3		B957N3NUT
3		B957N3WASHER
4	16.00	B957N4DRIVER
4		B957N4NUT
4		B957N4WASHER
5	19.00	B957N5DRIVER
5		B957N5NUT
5		B957N5WASHER
6	22.00	B957N6DRIVER
6		B957N6NUT
6		B957N6WASHER

Nr.	d	e-Code
7	27.00	B957N7DRIVER
7		B957N7NUT
7		B957N7WASHER
8	32.00	B957N8DRIVER
8		B957N8NUT
8		B957N8WASHER
9	40.00	B957N9DRIVER
9		B957N9NUT
9		B957N9WASHER

• Hvězdička

• Kúpsüllyesztő

• Pogłębiacz

• Zencuitoare

• Зенковка

• grezilo



G135



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.1	7.2	7.3	7.4	8.1	8.2

max d mm	min d	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
6.3	1.6	45	5	3	G1356.3
8.0	2.0	50	6	3	G1358.0
10.0	2.5	50	6	3	G13510.0
12.5	3.2	56	8	3	G13512.5

max d mm	min d	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
16.0	4.0	63	10	3	G13516.0
20.0	5.0	67	10	3	G13520.0
25.0	6.3	71	10	3	G13525.0



G335



■	1.1	1.2	1.3	3.1	3.2	3.3	3.4	7.1	7.2	7.3	7.4				
●	1.4	1.5	1.6	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	8.1	8.2

max d mm	min d	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
6.3	1.6	45	5	3	G3356.3
8.0	2.0	50	6	3	G3358.0
10.0	2.5	50	6	3	G33510.0
12.5	3.2	56	8	3	G33512.5

max d mm	min d	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
16.0	4.0	63	10	3	G33516.0
20.0	5.0	67	10	3	G33520.0
25.0	6.3	71	10	3	G33525.0

G131

DORMER

- Hvězdička
- Kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G131



- 1.3 1.4 1.5 1.6 3.4 4.2 4.3 5.2 5.3 6.4
- 2.3 8.3

max d mm	min d	l_1 mm	d_2 $\varnothing h_9$ mm	z e-Code	max d mm	min d	l_1 mm	d_2 $\varnothing h_9$ mm	z e-Code
8.0	-	50	8	5 G1318.0	16.0	3.2	60	10	7 G13116.0
12.5	2.0	50	8	5 G13112.5	20.0	5.0	63	10	7 G13120.0

- Hvězdička
- Kúpos szárú kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G137



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.1	7.2	7.3	7.4	8.1	8.2

max d mm	min d mm	l ₁ mm	MK	z	e-Code	max d mm	min d mm	l ₁ mm	MK	z	e-Code
16.0	4.0	90	1	3	G13716.0	40.0	12.5	150	3	3	G13740.0
20.0	5.0	106	2	3	G13720.0	50.0	16.0	160	3	3	G13750.0
25.0	6.3	112	2	3	G13725.0	63.0	20.0	190	4	3	G13763.0
31.5	10.0	118	2	3	G13731.5	80.0	25.0	200	4	3	G13780.0

G154

DORMER

- Hvězdička
- Kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G154



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.1	7.2	7.3	7.4	8.1	8.2

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
6.3	1.5	45	5	3	G1546.3
8.3	2.0	50	6	3	G1548.3
10.4	2.5	50	6	3	G15410.4
12.4	2.8	56	8	3	G15412.4

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
16.5	3.2	60	10	3	G15416.5
20.5	3.5	63	10	3	G15420.5
25.0	3.8	67	10	3	G15425.0

- Hvězdička
- Kúpos szárú kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G155



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.1	7.2	7.3	7.4	8.1	8.2

max d mm	min d	l_1 mm	MK	z	e-Code	max d mm	min d	l_1 mm	MK	z	e-Code
16.5	3.2	85	1	3	G15516.5	40.0	10.0	140	3	3	G15540.0
20.5	3.5	100	2	3	G15520.5	50.0	14.0	150	3	3	G15550.0
25.0	3.8	106	2	3	G15525.0	63.0	16.0	180	4	3	G15563.0
31.0	4.2	112	2	3	G15531.0	80.0	22.0	190	4	3	G15580.0

G129

DORMER

- Hvězdička
- Kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G129



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	5.1	5.2	6.1	6.2	6.3	7.1	7.2
●	1.6	2.1	2.2	3.1	3.2	3.3	3.4	4.3	5.3	6.4	7.3	7.4	8.1	8.2

max d mm	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code	max d mm	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
6.00	45	6	1	G1296.0	16.00	56	10	1	G12916.0
8.00	50	8	1	G1298.0	20.00	60	10	1	G12920.0
10.00	49	8	1	G12910.0	25.00	75	12	1	G12925.0
12.50	49	8	1	G12912.5	31.50	80	12	1	G12931.5

- Hvezdička
- Sorjátlanító kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G149



■	1.1	1.2	1.3	1.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3	7.1	7.2		
●	1.5	1.6	2.1	2.2	3.1	3.2	3.3	3.4	4.3	5.3	6.4	7.3	7.4	8.1	8.2

max d mm	min d mm	l_1 mm	d_2 Ø mm	d_1 Ø mm	z	e-Code
5	2	45	6	10	1	G1495
10	5	48	8	14	1	G14910
15	10	65	10	21	1	G14915
20	15	84	12	28	1	G14920
25	20	102	15	35	1	G14925
30	25	115	15	44	1	G14930

max d mm	min d mm	l_1 mm	d_2 Ø mm	d_1 Ø mm	z	e-Code
35	30	127	15	48	1	G14935
40	35	136	15	53	1	G14940
50	40	166	20	60	1	G14950



G349



■	1.1	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	7.1	7.2	7.3	7.4
●	1.6	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	8.1	8.2

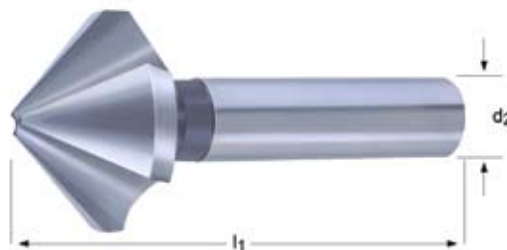
max d mm	min d mm	l_1 mm	d_2 Ø mm	d_1 Ø mm	z	e-Code
5	2	45	6	10	1	G3495
10	5	48	8	14	1	G34910

max d mm	min d mm	l_1 mm	d_2 Ø mm	d_1 Ø mm	z	e-Code
15	10	65	10	21	1	G34915
20	15	84	12	28	1	G34920

G142

DORMER

- Záhľubník s extra radiálním podbrusem
- Süllyesztő extra radiális hátszöggel
- Poglębacz stożkowy z dodatkowym promieniowym kątem przyłożenia
- Zencuitor cu cu unghi asezare marit
- Зенковка с дополнительной затыловкой
- Grezilo



G142



■	1.1	1.2	2.1	2.2	2.3	4.1	5.1	6.1	6.2	7.1	7.2	8.1	8.2
●	1.3	1.4	4.2	5.2	6.3	7.3	7.4						

max d mm	min d	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
4.8	1.3	40	4	3	G1424.8
5.0	1.5	40	4	3	G1425.0
6.0	1.5	45	4	3	G1426.0
6.3	1.5	45	5	3	G1426.3
7.0	1.8	50	6	3	G1427.0
7.3	1.8	50	6	3	G1427.3
8.0	2.0	50	6	3	G1428.0
8.3	2.0	50	6	3	G1428.3
10.0	2.5	50	6	3	G14210.0
10.4	2.5	50	6	3	G14210.4

max d mm	min d	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
11.5	2.8	56	8	3	G14211.5
12.4	2.8	56	8	3	G14212.4
15.0	3.2	60	10	3	G14215.0
16.5	3.2	60	10	3	G14216.5
19.0	3.5	63	10	3	G14219.0
20.5	3.5	63	10	3	G14220.5
23.0	3.8	67	10	3	G14223.0
25.0	3.8	67	10	3	G14225.0
31.0	4.2	71	12	3	G14231.0

- Hvězdíčka
- Kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G136



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.1	7.2	7.3	7.4	8.1	8.2

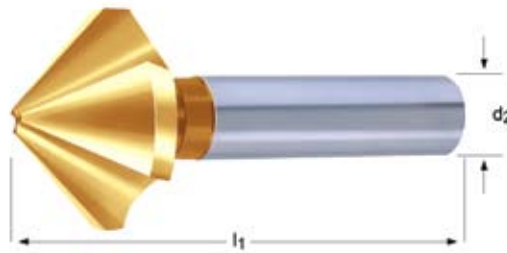
max d mm	min d	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
4.3	1.3	40	4	3	G1364.3
5.0	1.5	40	4	3	G1365.0
5.3	1.5	40	4	3	G1365.3
5.8	1.5	45	5	3	G1365.8
6.0	1.5	45	5	3	G1366.0
6.3	1.5	45	5	3	G1366.3
7.0	1.8	50	6	3	G1367.0
7.3	1.8	50	6	3	G1367.3
8.0	2.0	50	6	3	G1368.0
8.3	2.0	50	6	3	G1368.3
9.4	2.2	50	6	3	G1369.4
10.0	2.5	50	6	3	G13610.0
10.4	2.5	50	6	3	G13610.4
11.5	2.8	56	8	3	G13611.5

max d mm	min d	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
12.4	2.8	56	8	3	G13612.4
13.4	2.9	56	8	3	G13613.4
15.0	3.2	60	10	3	G13615.0
16.5	3.2	60	10	3	G13616.5
19.0	3.5	63	10	3	G13619.0
20.5	3.5	63	10	3	G13620.5
23.0	3.8	67	10	3	G13623.0
25.0	3.8	67	10	3	G13625.0
26.0	3.8	67	10	3	G13626.0
28.0	4.0	71	12	3	G13628.0
30.0	4.2	71	12	3	G13630.0
31.0	4.2	71	12	3	G13631.0

G336 / G560

DORMER

- Hvězdička
- Kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G336



■	1.1	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	7.1	7.2	7.3	7.4
•	1.6	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	8.1	8.2

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
5.0	1.5	40	4	3	G3365.0
6.0	1.5	45	5	3	G3366.0
6.3	1.5	45	5	3	G3366.3
7.0	1.8	50	6	3	G3367.0
7.3	1.8	50	6	3	G3367.3
8.0	2.0	50	6	3	G3368.0
8.3	2.0	50	6	3	G3368.3
10.0	2.5	50	6	3	G33610.0
10.4	2.5	50	6	3	G33610.4
11.5	2.8	56	8	3	G33611.5

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
12.4	2.8	56	8	3	G33612.4
15.0	3.2	60	10	3	G33615.0
16.5	3.2	60	10	3	G33616.5
19.0	3.5	63	10	3	G33619.0
20.5	3.5	63	10	3	G33620.5
23.0	3.8	67	10	3	G33623.0
25.0	3.8	67	10	3	G33625.0
31.0	4.2	71	12	3	G33631.0



G560



■	1.1	1.2	1.3	3.1	3.2	3.3	3.4	7.1	7.2	7.3	7.4				
●	1.4	1.5	1.6	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	8.1	8.2

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
6.3	1.5	45	5	3	G5606.3
8.0	2.0	50	6	3	G5608.0
8.3	2.0	50	6	3	G5608.3
10.0	2.5	50	6	3	G56010.0
10.4	2.5	50	6	3	G56010.4
12.4	2.8	56	8	3	G56012.4

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z	e-Code
16.5	3.2	60	10	3	G56016.5
20.5	3.5	63	10	3	G56020.5
25.0	3.8	67	10	3	G56025.0
31.0	4.2	71	12	3	G56031.0

- Hvězdíčka, sada
- Kúpsüllyesztő készlet
- Komplet pogłębiaczy
- Set zencuitoare
- Набор зенковок
- grezilo, garnituri



G139



Nr.	A	e-Code
70	G136 6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5	G13970
71	G136 6.0 - 8.0 - 10.0 - 11.5 - 15.0 - 19.0	G13971
72	G136 6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5 - 25.0	G13972



G236

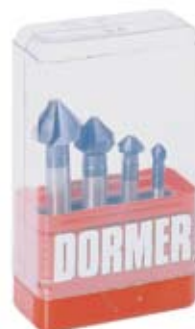


Nr.	A	e-Code
1	G136 6.3 - 8.3 - 10.4 - 12.4 - 16.5 - 20.5	G2361
2	G136 6.3 - 10.4 - 16.5 - 20.5	G2362

G237

DORMER

- Hvězdíčka, sada
- Kúpsüllyesztő készlet
- Komplet poglebiaczy
- Set zencuitoare
- Набор зенковок
- grezilo, garnitura



G237



Nr.	A		e-Code
10	G560	6.3 - 10.4 - 16.5 - 20.5	G23710



- Hvězdíčka
- Kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G132



■	1.5	1.6	3.4	4.2	4.3	5.2	5.3	6.4
●	1.3	1.4	2.3	8.3				

max d mm	min d	l_1 mm	d_2 $\varnothing h_9$ mm	z	e-Code	max d mm	min d	l_1 mm	d_2 $\varnothing h_9$ mm	z	e-Code
8.0	-	48	8	5	G1328.0	16.0	3.2	56	10	7	G13216.0
12.5	2.0	48	8	5	G13212.5	20.0	5.0	60	10	7	G13220.0

G138 / G338

DORMER

- Hvězdička
- Kúpos szárú kúpsüllyesztő
- Pogłębiacz
- Zencuitoare
- Зенковка
- grezilo



G138



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.1	7.2	7.3	7.4	8.1	8.2

max d mm	min d mm	l ₁ mm	MK	z	e-Code	max d mm	min d mm	l ₁ mm	MK	z	e-Code
15.0	3.2	85	1	3	G13815.0	30.0	4.2	112	2	3	G13830.0
16.5	3.2	85	1	3	G13816.5	31.0	4.2	112	2	3	G13831.0
19.0	3.5	100	2	3	G13819.0	34.0	4.5	118	2	3	G13834.0
20.5	3.5	100	2	3	G13820.5	37.0	4.8	118	2	3	G13837.0
23.0	3.8	106	2	3	G13823.0	40.0	10.0	140	3	3	G13840.0
25.0	3.8	106	2	3	G13825.0	50.0	14.0	150	3	3	G13850.0
26.0	3.8	106	2	3	G13826.0	63.0	16.0	180	4	3	G13863.0
28.0	4.0	112	2	3	G13828.0	80.0	22.0	190	4	3	G13880.0



G338



■	1.1	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	7.1	7.2	7.3	7.4
•	1.6	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	8.1	8.2

max d mm	min d mm	l ₁ mm	MK	z	e-Code	max d mm	min d mm	l ₁ mm	MK	z	e-Code
25.0	3.8	106	2	3	G33825.0	50.0	14.0	150	3	3	G33850.0
31.0	4.2	112	2	3	G33831.0	63.0	16.0	180	4	3	G33863.0
37.0	4.8	118	2	3	G33837.0						
40.0	10.0	140	3	3	G33840.0						

- Hvězdička
- Zencuitoare

- Kúpsüllyesztő
- Зенковка

- Pogłębiacz
- grezilo



G170



■	1.1	1.2	1.3	1.4	1.5	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.1	7.2	7.3	7.4	8.1	8.2

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z e-Code
6.3	1.5	44.0	5.0	3 G1706.3
8.3	2.0	49.0	6.0	3 G1708.3
10.4	2.5	49.0	6.0	3 G17010.4
12.4	2.8	53.0	6.0	3 G17012.4

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z e-Code
16.5	3.2	56.0	6.0	3 G17016.5
20.5	3.5	61.0	10.0	3 G17020.5
25.0	3.8	65.0	10.0	3 G17025.0



G171



■	1.1	1.2	1.3	3.1	3.2	3.3	3.4	7.1	7.2	7.3	7.4				
●	1.4	1.5	1.6	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	8.1	8.2

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z e-Code
6.3	1.5	44.0	5.0	3 G1716.3
8.3	2.0	49.0	6.0	3 G1718.3
10.4	2.5	49.0	6.0	3 G17110.4
12.4	2.8	53.0	6.0	3 G17112.4

max d mm	min d mm	l ₁ mm	d ₂ Øh ₉ mm	z e-Code
16.5	3.2	56.0	6.0	3 G17116.5
20.5	3.5	61.0	10.0	3 G17120.5
25.0	3.8	65.0	10.0	3 G17125.0

M138

DORMER

- Kuželové vrtáky
- Lépcsős Lemezfúró
- Wiertła stożkowe
- Burghiu conic
- Конические ступенчатые сверла для листового металла
- sveder za pločevino, stopničast



M138



■	1.1	1.2	1.3	1.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	7.1	7.2	8.1	8.2
•	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.3	7.4					

Nr.	max d mm	min d mm	l ₂ mm	l ₁ mm	d ₂ h11 mm	e-Code
1	14	3	36	58	6	M1381
2	20	8	40	62	8	M1382
3	30	16	48	70	10	M1383
4	40	26	51	76	10	M1384

Nr.	max d mm	min d mm	l ₂ mm	l ₁ mm	d ₂ h11 mm	e-Code
5	50	36	54	79	10	M1385
6	60	46	57	82	13	M1386

- Kuželové vrtáky
- Lépcsős Lemezűró
- Wiertła stożkowe
- Burghiu conic
- Конические ступенчатые сверла для листового металла
- sveder za pločevino, stopničast



G314



■	1.1	1.2	1.3	1.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	7.1	7.2	8.1	8.2
•	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	6.4	7.3	7.4					

Nr.	d min-max mm	l ₃ mm	l ₁ mm	d ₃ Ø mm	e-Code
412	4.0 mm ÷ 12.0 mm x 1.0 mm	5.0	80	6.0	G314412
1220	12.0 mm ÷ 20.0 mm x 1.0 mm	4.0	76	9.0	G3141220
2030	20.0 mm ÷ 30.0 mm x 1.0 mm	4.0	88	12.0	G3142030
3040	30.0 mm ÷ 40.0 mm x 1.0 mm	4.0	98	13.0	G3143040
420	4.0 mm ÷ 20.0 mm x 2.0 mm	4.0	76	8.0	G314420
630	6.0 mm ÷ 30.0 mm x 2.0 mm	4.0	98	10.0	G314630
M	9.0 mm ÷ 36.0 mm x 3.0 mm	3.0	86	12.0	G314M

DORMER

-
- A schematic diagram of a drill bit. The bit has a cutting edge with diameter d_1 and a shank with diameter d_2 . The cutting edge is shown at an angle, with a distance d_3 from the tip to the start of the shank. The total length of the bit is l_1 , and the length of the cutting edge is l_2 .

HSS		DIN 373				180°
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■	1.1	1.2	1.3	2.1	3.1	3.2	7.1	7.2	8.1										
●	1.4	1.5	1.6	2.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	7.3	7.4	8.2	

d ₁ Øz ₉ mm	d ₃ Øe ₈ mm	M	l ₁ mm	l ₂ mm	d ₂ Øh ₉ mm	z	e-Code	
6.50	2.50	M 3 t	71	14	5.0	3	G1256.5X2.5	1)
6.50	3.20	M 3 f	71	14	5.0	3	G1256.5X3.2	2)
6.50	3.40	M 3 m	71	14	5.0	3	G1256.5X3.4	3)
8.00	3.30	M 4 t	71	14	5.0	3	G1258.0X3.3	1)
8.00	4.30	M 4 f	71	14	5.0	3	G1258.0X4.3	2)
8.00	4.50	M 4 m	71	14	5.0	3	G1258.0X4.5	3)
10.00	4.20	M 5 t	80	18	8.0	3	G12510.0X4.2	1)
10.00	5.30	M 5 f	80	18	8.0	3	G12510.0X5.3	2)
10.00	5.50	M 5 m	80	18	8.0	3	G12510.0X5.5	3)
11.00	5.00	M 6 t	80	18	8.0	3	G12511.0X5.0	1)
11.00	6.40	M 6 f	80	18	8.0	3	G12511.0X6.4	2)
11.00	6.60	M 6 m	80	18	8.0	3	G12511.0X6.6	3)
15.00	6.80	M 8 t	100	22	12.5	3	G12515.0X6.8	1)
15.00	8.40	M 8 f	100	22	12.5	3	G12515.0X8.4	2)
15.00	9.00	M 8 m	100	22	12.5	3	G12515.0X9.0	3)
18.00	8.50	M 10 t	100	22	12.5	3	G12518.0X8.5	1)
18.00	10.50	M 10 f	100	22	12.5	3	G12518.0X10.5	2)
18.00	11.00	M 10 m	100	22	12.5	3	G12518.0X11.0	3)
20.00	10.20	M 12 t	100	22	12.5	3	G12520.0X10.2	1)
20.00	13.00	M 12 f	100	22	12.5	3	G12520.0X13.0	2)
20.00	13.50	M 12 m	100	22	12.5	3	G12520.0X13.5	3)

³⁾ m = pro príchozí díry, střední / m = átménő furatokhoz - közepes / m = dla otworów przelotowych średnio dokładnych / m = pentru treceri precizii medii de suruburi / m = для сквозного отверстия (средний) / m = za skoznjno luknjno (medium)

- | | | |
|--------------------|----------------------------|----------------------|
| • M.T.S. záhlubník | • M.T.S. Csapos sülylesztő | • Poglebiacze M.T.S. |
| • Lamatoare | • Зенкер с направляющей | • grezilo |



G126



- | | | | | | | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| ■ | 1.1 | 1.2 | 1.3 | 2.1 | 3.1 | 3.2 | 7.1 | 7.2 | 8.1 | | | | | | | | | | |
| ● | 1.4 | 1.5 | 1.6 | 2.2 | 3.3 | 3.4 | 4.1 | 4.2 | 4.3 | 5.1 | 5.2 | 5.3 | 6.1 | 6.2 | 6.3 | 7.3 | 7.4 | 8.2 | |

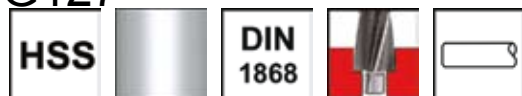
d ₁ Øz ₉ mm	l ₁ mm	l ₂ mm	d ₂ Øh ₈ mm	MK	z	e-Code
15.00	132	22	4	2	3	G12615.0
18.00	140	25	5	2	3	G12618.0
20.00	140	25	5	2	3	G12620.0
24.00	150	30	6	2	3	G12624.0
26.00	180	35	8	3	3	G12626.0
30.00	180	35	8	3	3	G12630.0

d ₁ Øz ₉ mm	l ₁ mm	l ₂ mm	d ₂ Øh ₈ mm	MK	z	e-Code
33.00	190	40	10	3	3	G12633.0
36.00	190	40	10	3	3	G12636.0
40.00	190	40	10	3	3	G12640.0
43.00	236	50	12	4	4	G12643.0
46.00	236	50	12	4	4	G12646.0

- Vodící čep (G126)
- Cserélhető csap a G126-hoz
- Wymienny pilot (G126)
- Cep detasabil (G126)
- Сменная направляющая для зенкера (G126)
- grezilo (G126)



G127



d ₁ Ø mm	d ₂ Ø _{f7} mm	M	e-Code	
6.80	4	M 8 t	G1276.8X4.0	¹⁾
8.40	4	M 8 f	G1278.4X4.0	²⁾
9.00	4	M 8 m	G1279.0X4.0	³⁾
6.80	5	M 8 t	G1276.8X5.0	¹⁾
8.40	5	M 8 f	G1278.4X5.0	²⁾
8.50	5	M 10 t	G1278.5X5.0	¹⁾
9.00	5	M 8 m	G1279.0X5.0	³⁾
10.20	5	M 12 t	G12710.2X5.0	¹⁾
10.50	5	M 10 f	G12710.5X5.0	²⁾
11.00	5	M 10 m	G12711.0X5.0	³⁾
13.00	5	M 12 f	G12713.0X5.0	²⁾
13.50	5	M 12 m	G12713.5X5.0	³⁾
8.50	6	M 10 t	G1278.5X6.0	¹⁾
10.20	6	M 12 t	G12710.2X6.0	¹⁾
10.50	6	M 10 f	G12710.5X6.0	²⁾
11.00	6	M 10 m	G12711.0X6.0	³⁾
12.00	6	M 14 t	G12712.0X6.0	¹⁾
13.00	6	M 12 f	G12713.0X6.0	²⁾
13.50	6	M 12 m	G12713.5X6.0	³⁾
15.00	6	M 14 f	G12715.0X6.0	²⁾
15.50	8	M 18 t	G12715.5X6.0	¹⁾
10.20	8	M 12 t	G12710.2X8.0	¹⁾
12.00	8	M 14 t	G12712.0X8.0	¹⁾
13.00	8	M 12 f	G12713.0X8.0	²⁾
13.50	8	M 12 m	G12713.5X8.0	³⁾
14.00	8	M 16 t	G12714.0X8.0	¹⁾
15.00	8	M 14 f	G12715.0X8.0	²⁾
15.50	8	M 14 m	G12715.5X8.0	³⁾

d ₁ Ø mm	d ₂ Ø _{f7} mm	M	e-Code	
17.00	8	M 16 f	G12717.0X8.0	²⁾
17.50	10	M 20 t	G12717.5X8.0	¹⁾
19.00	8	M 18 f	G12719.0X8.0	²⁾
20.00	8	M 18 m	G12720.0X8.0	³⁾
14.00	10	M 16 t	G12714.0X10.0	¹⁾
15.50	10	M 18 t	G12715.5X10.0	¹⁾
17.00	10	M 16 f	G12717.0X10.0	²⁾
17.50	10	M 16 m	G12717.5X10.0	³⁾
19.00	10	M 18 f	G12719.0X10.0	²⁾
19.50	10	M 22 t	G12719.5X10.0	¹⁾
20.00	10	M 18 m	G12720.0X10.0	³⁾
21.00	10	M 24 t	G12721.0X10.0	¹⁾
22.00	10	M 20 m	G12722.0X10.0	³⁾
23.00	10	M 22 f	G12723.0X10.0	²⁾
24.00	16	M 27 t	G12724.0X10.0	¹⁾
25.00	10	M 24 f	G12725.0X10.0	²⁾
26.00	10	M 24 m	G12726.0X10.0	³⁾
19.50	12	M 22 t	G12719.5X12.0	¹⁾
21.00	12	M 24 t	G12721.0X12.0	¹⁾
23.00	12	M 22 f	G12723.0X12.0	²⁾
24.00	12	M 27 t	G12724.0X12.0	¹⁾
25.00	12	M 24 f	G12725.0X12.0	²⁾
26.00	12	M 24 m	G12726.0X12.0	³⁾
26.50	12	M 30 t	G12726.5X12.0	¹⁾
30.00	12	M 27 m	G12730.0X12.0	³⁾
33.00	12	M 30 m	G12733.0X12.0	³⁾

¹⁾ t = díra pro závit / t = menetes furathoz / t = otwór pod gwintownik / t = pentru gaura ce se fileteaza / t = для отверстия под резьбу / t = za luknjo za navojni sveder

²⁾ f = pro průchozí díry, jemné / f = átmenő furathoz - finom / f = dla otworów przelotowych dokładnych / f = pentru treceri precise de suruburi / f = для сквозного отверстия (точный) / f = za skožnjo luknjo (fine)

³⁾ m = pro průchozí díry, střední / m = átmenő furathoz - közepes / m = dla otworów przelotowych średnio dokładnych / m = pentru treceri precizii medii de suruburi / m = для сквозного отверстия (средний) / m = za skožnjo luknjo (medium)

