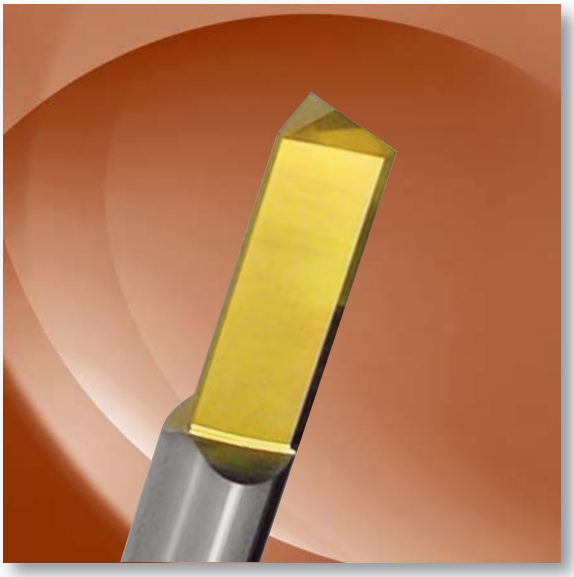
VRTÁKY TVRDOKOVOVÉ
Vysokovýkonné

panas
rezné nástroje a údržba foriem



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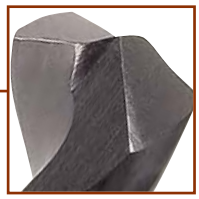
Punta ad alte prestazioni in metallo duro integrale

Solid carbide high performance twist drill

VHM - Hochleistungsböhrer - Foret carbure à haut performance
Сверло спиральное твердосплавное высокопроизводительное - Sk vysoce výkonný vrták



CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122T.030	**3.0**	6	20	60
122T.031	**3.1**			
122T.032	**3.2**			
122T.033	**3.3**			
122T.034	**3.4**			
122T.035	**3.5**			
122T.036	**3.6**			
122T.037	**3.7**			
122T.038	**3.8**	6	24	66
122T.039	**3.9**			
122T.040	**4.0**			
122T.041	**4.1**			
122T.042	**4.2**			
122T.043	**4.3**			
122T.044	**4.4**			
122T.045	**4.5**			
122T.046	**4.6**			
122T.047	**4.7**			
122T.048	**4.8**	6	28	66
122T.049	**4.9**			
122T.050	**5.0**			
122T.051	**5.1**			
122T.052	**5.2**			
122T.053	**5.3**			
122T.054	**5.4**			
122T.055	**5.5**			
122T.056	**5.6**			
122T.057	**5.7**			
122T.058	**5.8**			
122T.059	**5.9**			
122T.060	**6.0**			
122T.061	**6.1**	8	34	79
122T.062	**6.2**			
122T.063	**6.3**			
122T.064	**6.4**			
122T.065	**6.5**			
122T.066	**6.6**			
122T.067	**6.7**			
122T.068	**6.8**			
122T.069	**6.9**			
122T.070	**7.0**			
122T.071	**7.1**	8	41	79
122T.072	**7.2**			
122T.073	**7.3**			
122T.074	**7.4**			

CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122T.075	**7.5**	8	41	79
122T.076	**7.6**			
122T.077	**7.7**			
122T.078	**7.8**			
122T.079	**7.9**			
122T.080	**8.0**			
122T.081	**8.1**	10	45	89
122T.082	**8.2**			
122T.083	**8.3**			
122T.084	**8.4**			
122T.085	**8.5**			
122T.086	**8.6**			
122T.088	**8.8**			
122T.090	**9.0**			
122T.091	**9.1**			
122T.092	**9.2**			
122T.095	**9.5**			
122T.098	**9.8**			
122T.100	**10.0**			
122T.101	**10.1**	12	55	102
122T.102	**10.2**			
122T.103	**10.3**			
122T.105	**10.5**			
122T.108	**10.8**			
122T.110	**11.0**			
122T.115	**11.5**			
122T.118	**11.8**			
122T.120	**12.0**			
122T.122	**12.2**	14	60	107
122T.123	**12.3**			
122T.125	**12.5**			
122T.128	**12.8**			
122T.130	**13.0**			
122T.135	**13.5**			
122T.138	**13.8**			
122T.140	**14.0**			
122T.145	**14.5**	16	65	115
122T.150	**15.0**			
122T.155	**15.5**			
122T.160	**16.0**			
122T.165	**16.5**	18	73	123
122T.170	**17.0**			
122T.175	**17.5**			
122T.180	**18.0**			
122T.185	**18.5**	20	79	131
122T.190	**19.0**			
122T.195	**19.5**			
122T.200	**20.0**			

→ Help 197

HRC < 52 | CAST IRON | INOX Stainless Steel | Aluminium

MICRO GRAIN | DIN 6537 | DIN 6535 Form HA

30° | 140°

HYPER

Z 2 | 3xd

Punta ad alte prestazioni in metallo duro integrale

Solid carbide high performance twist drill

VHM - Hochleistungsbohrer - Foret carbure helicoidal avec canaux de réfrigération
Сверло спиральное твердосплавное с подачей СОЖ - Sk vysoce výkonný vrták

CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122F.030	**3.0**	6	20	60
122F.031	**3.1**			
122F.032	**3.2**			
122F.033	**3.3**			
122F.034	**3.4**			
122F.035	**3.5**			
122F.036	**3.6**			
122F.037	**3.7**			
122F.038	**3.8**	6	24	66
122F.039	**3.9**			
122F.040	**4.0**			
122F.041	**4.1**			
122F.042	**4.2**			
122F.043	**4.3**			
122F.044	**4.4**			
122F.045	**4.5**			
122F.046	**4.6**			
122F.047	**4.7**			
122F.048	**4.8**	6	28	66
122F.049	**4.9**			
122F.050	**5.0**			
122F.051	**5.1**			
122F.052	**5.2**			
122F.053	**5.3**			
122F.054	**5.4**			
122F.055	**5.5**			
122F.056	**5.6**			
122F.057	**5.7**			
122F.058	**5.8**			
122F.059	**5.9**			
122F.060	**6.0**			
122F.061	**6.1**	8	34	75
122F.062	**6.2**			
122F.063	**6.3**			
122F.064	**6.4**			
122F.065	**6.5**			
122F.066	**6.6**			
122F.067	**6.7**			
122F.068	**6.8**			
122F.069	**6.9**			
122F.070	**7.0**			
122F.071	**7.1**	8	41	79
122F.072	**7.2**			
122F.073	**7.3**			
122F.074	**7.4**			
122F.075	**7.5**			
122F.076	**7.6**			
122F.077	**7.7**			
122F.078	**7.8**			
122F.079	**7.9**			
122F.080	**8.0**			

CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122F.081	**8.1**	10	45	89
122F.082	**8.2**			
122F.083	**8.3**			
122F.084	**8.4**			
122F.085	**8.5**			
122F.086	**8.6**			
122F.088	**8.8**			
122F.089	**8.9**			
122F.090	**9.0**			
122F.091	**9.1**			
122F.092	**9.2**			
122F.095	**9.5**			
122F.098	**9.8**			
122F.100	**10.0**			
122F.101	**10.1**	12	55	102
122F.102	**10.2**			
122F.103	**10.3**			
122F.105	**10.5**			
122F.108	**10.8**			
122F.110	**11.0**			
122F.115	**11.5**			
122F.118	**11.8**			
122F.120	**12.0**			
122F.122	**12.2**	14	60	107
122F.123	**12.3**			
122F.125	**12.5**			
122F.128	**12.8**			
122F.130	**13.0**			
122F.135	**13.5**			
122F.138	**13.8**			
122F.140	**14.0**			
122F.145	**14.5**	16	65	115
122F.150	**15.0**			
122F.155	**15.5**			
122F.160	**16.0**			
122F.165	**16.5**	18	73	123
122F.170	**17.0**			
122F.175	**17.5**			
122F.180	**18.0**			
122F.185	**18.5**	20	79	131
122F.190	**19.0**			
122F.195	**19.5**			
122F.200	**20.0**			

→ Help 198

HRC < 52 | CAST IRON | INOX Stainless Steel | Aluminium

MICRO GRAIN | DIN 6537 | DIN 6535 Form HAK

30° | 140°

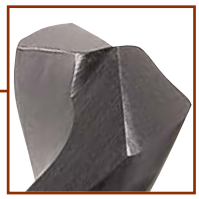
HYPER

Z 2 | 3xd

Punta ad alte prestazioni in metallo duro integrale

Solid carbide high performance twist drill

VHM - Hochleistungsböhrer - Foret carbure à haut performance
Сверло спиральное твердосплавное высокопроизводительное - Sk vysoce výkonný vrták



CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122TL.005	**0.5**	3	10	50
122TL.006	**0.6**			
122TL.007	**0.7**			
122TL.008	**0.8**			
122TL.009	**0.9**			
122TL.010	**1.0**	3	12	55
122TL.011	**1.1**			
122TL.012	**1.2**			
122TL.013	**1.3**			
122TL.014	**1.4**			
122TL.015	**1.5**			
122TL.016	**1.6**	3	16	55
122TL.017	**1.7**			
122TL.018	**1.8**			
122TL.019	**1.9**			
122TL.020	**2.0**			
122TL.021	**2.1**	3	21	57
122TL.022	**2.2**			
122TL.023	**2.3**			
122TL.024	**2.4**			
122TL.025	**2.5**			
122TL.026	**2.6**			
122TL.027	**2.7**			
122TL.028	**2.8**			
122TL.029	**2.9**			
122TL.030	**3.0**	6	28	66
122TL.031	**3.1**			
122TL.032	**3.2**			
122TL.033	**3.3**			
122TL.034	**3.4**			
122TL.035	**3.5**			
122TL.036	**3.6**			
122TL.037	**3.7**			
122TL.038	**3.8**	6	36	74
122TL.039	**3.9**			
122TL.040	**4.0**			
122TL.041	**4.1**			
122TL.042	**4.2**			
122TL.043	**4.3**			
122TL.044	**4.4**			
122TL.045	**4.5**			
122TL.046	**4.6**			
122TL.047	**4.7**			
122TL.048	**4.8**	6	44	82
122TL.049	**4.9**			
122TL.050	**5.0**			
122TL.051	**5.1**			
122TL.052	**5.2**			
122TL.053	**5.3**			
122TL.054	**5.4**			
122TL.055	**5.5**			
122TL.056	**5.6**			
122TL.057	**5.7**			
122TL.058	**5.8**			
122TL.059	**5.9**			
122TL.060	**6.0**			
122TL.061	**6.1**	8	53	91
122TL.062	**6.2**			
122TL.063	**6.3**			
122TL.064	**6.4**			
122TL.065	**6.5**			
122TL.066	**6.6**			

CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122TL.067	**6.7**	8	53	91
122TL.068	**6.8**			
122TL.069	**6.9**			
122TL.070	**7.0**			
122TL.071	**7.1**			
122TL.072	**7.2**			
122TL.073	**7.3**			
122TL.074	**7.4**			
122TL.075	**7.5**			
122TL.078	**7.8**			
122TL.079	**7.9**			
122TL.080	**8.0**			
122TL.081	**8.1**	10	61	103
122TL.082	**8.2**			
122TL.083	**8.3**			
122TL.084	**8.4**			
122TL.085	**8.5**			
122TL.088	**8.8**			
122TL.090	**9.0**			
122TL.091	**9.1**			
122TL.092	**9.2**			
122TL.093	**9.3**			
122TL.094	**9.4**			
122TL.095	**9.5**			
122TL.096	**9.6**			
122TL.098	**9.8**			
122TL.099	**9.9**			
122TL.100	**10.0**			
122TL.101	**10.1**	12	71	118
122TL.102	**10.2**			
122TL.103	**10.3**			
122TL.104	**10.4**			
122TL.105	**10.5**			
122TL.106	**10.6**			
122TL.107	**10.7**			
122TL.108	**10.8**			
122TL.109	**10.9**			
122TL.110	**11.0**			
122TL.111	**11.1**			
122TL.112	**11.2**			
122TL.115	**11.5**			
122TL.116	**11.6**			
122TL.117	**11.7**			
122TL.118	**11.8**			
122TL.120	**12.0**			
122TL.122	**12.2**	14	77	124
122TL.123	**12.3**			
122TL.125	**12.5**			
122TL.128	**12.8**			
122TL.130	**13.0**			
122TL.135	**13.5**			
122TL.140	**14.0**			
122TL.145	**14.5**	16	83	133
122TL.150	**15.0**			
122TL.155	**15.5**			
122TL.160	**16.0**			
122TL.165	**16.5**	18	93	143
122TL.170	**17.0**			
122TL,175	**17.5**			
122TL.180	**18.0**			
122TL.200	**20.0**	20	101	153

→ Help 197

Punta ad alte prestazioni in metallo duro integrale

Solid carbide high performance twist drill

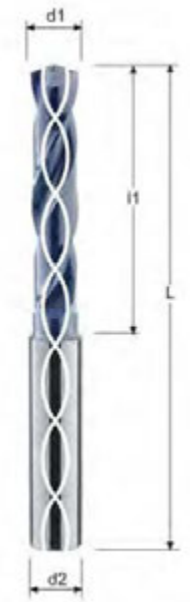
VHM - Hochleistungsböhrer - Foret carbure à haut performance
Сверло спиральное твердосплавное высокопроизводительное - Sk vysoce výkonný vrták

CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122FL.010	**1.0**	3	10	55
122FL.011	**1.1**	3	12	55
122FL.012	**1.2**			
122FL.013	**1.3**			
122FL.014	**1.4**			
122FL.015	**1.5**			
122FL.016	**1.6**	3	16	55
122FL.017	**1.7**			
122FL.018	**1.8**			
122FL.019	**1.9**			
122FL.020	**2.0**			
122FL.021	**2.1**	3	21	57
122FL.022	**2.2**			
122FL.023	**2.3**			
122FL.024	**2.4**			
122FL.025	**2.5**			
122FL.026	**2.6**			
122FL.027	**2.7**			
122FL.028	**2.8**			
122FL.029	**2.9**			
122FL.030	**3.0**	6	28	66
122FL.031	**3.1**			
122FL.032	**3.2**			
122FL.033	**3.3**			
122FL.034	**3.4**			
122FL.035	**3.5**			
122FL.036	**3.6**			
122FL.037	**3.7**			
122FL.038	**3.8**	6	36	74
122FL.039	**3.9**			
122FL.040	**4.0**			
122FL.041	**4.1**			
122FL.042	**4.2**			
122FL.043	**4.3**			
122FL.044	**4.4**			
122FL.045	**4.5**			
122FL.046	**4.6**			
122FL.047	**4.7**			
122FL.048	**4.8**	6	44	81
122FL.049	**4.9**			
122FL.050	**5.0**			
122FL.051	**5.1**			
122FL.052	**5.2**			
122FL.053	**5.3**			
122FL.054	**5.4**			
122FL.055	**5.5**			
122FL.056	**5.6**			
122FL.057	**5.7**			
122FL.058	**5.8**			
122FL.059	**5.9**			
122FL.060	**6.0**			
122FL.061	**6.1**	8	53	91
122FL.062	**6.2**			
122FL.063	**6.3**			
122FL.064	**6.4**			
122FL.065	**6.5**			
122FL.066	**6.6**			
122FL.067	**6.7**			
122FL.068	**6.8**			
122FL.069	**6.9**			

CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122FL.070	**7.0**	8	53	91
122FL.071	**7.1**			
122FL.072	**7.2**			
122FL.073	**7.3**			
122FL.075	**7.5**			
122FL.078	**7.8**			
122FL.079	**7.9**			
122FL.080	**8.0**			
122FL.081	**8.1**	10	60	103
122FL.082	**8.2**			
122FL.083	**8.3**			
122FL.085	**8.5**			
122FL.088	**8.8**			
122FL.090	**9.0**			
122FL.091	**9.1**			
122FL.092	**9.2**			
122FL.093	**9.3**			
122FL.094	**9.4**			
122FL.095	**9.5**			
122FL.096	**9.6**			
122FL.098	**9.8**			
122FL.099	**9.9**			
122FL.100	**10.0**			
122FL.101	**10.1**	12	70	118
122FL.102	**10.2**			
122FL.103	**10.3**			
122FL.104	**10.4**			
122FL.105	**10.5**			
122FL.106	**10.6**			
122FL.107	**10.7**			
122FL.108	**10.8**			
122FL.109	**10.9**			
122FL.110	**11.0**			
122FL.111	**11.1**			
122FL.112	**11.2**			
122FL.115	**11.5**			
122FL.116	**11.6**			
122FL.117	**11.7**			
122FL.118	**11.8**			
122FL.120	**12.0**			
122FL.122	**12.2**	14	77	124
122FL.123	**12.3**			
122FL.125	**12.5**			
122FL.128	**12.8**			
122FL.130	**13.0**			
122FL.135	**13.5**			
122FL.138	**13.8**			
122FL.140	**14.0**			
122FL.145	**14.5**	16	83	133
122FL.148	**14.8**			
122FL.150	**15.0**			
122FL.155	**15.5**			
122FL.158	**15.8**			
122FL.160	**16.0**			
122FL.165	**16.5**	18	93	143
122FL.168	**16.8**			
122FL.170	**17.0**			
122FL.175	**17.5**			
122FL.180	**18.0**			
122FL.200	**20**	20	101	153

→ Help 198

HRC < 52 | CAST IRON | INOX Stainless Steel | Aluminium

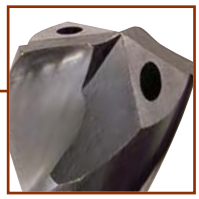


MICRO GRAIN | DIN 6537 | DIN 6535 Form HAK | 30° | 140° | HYPER | Z 2 | 5xd

Punta ad alte prestazioni in metallo duro integrale

Solid carbide high performance twist drill

VHM - Hochleistungsböhrer - Foret carbure à haut performance
Сверло спиральное твердосплавное высокопроизводительное - Sk vysoce výkonný vrták



CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122FN.010	**1.0**	3	10	55
122FN.011	**1.1**			
122FN.012	**1.2**			
122FN.013	**1.3**			
122FN.014	**1.4**			
122FN.015	**1.5**			
122FN.016	**1.6**	3	16	55
122FN.017	**1.7**			
122FN.018	**1.8**			
122FN.019	**1.9**			
122FN.020	**2.0**			
122FN.021	**2.1**	3	21	57
122FN.022	**2.2**			
122FN.023	**2.3**			
122FN.024	**2.4**			
122FN.025	**2.5**			
122FN.026	**2.6**			
122FN.027	**2.7**			
122FN.028	**2.8**			
122FN.029	**2.9**			
122FN.030	**3.0**	6	28	66
122FN.031	**3.1**			
122FN.032	**3.2**			
122FN.033	**3.3**			
122FN.034	**3.4**			
122FN.035	**3.5**			
122FN.036	**3.6**			
122FN.037	**3.7**			
122FN.038	**3.8**	6	36	74
122FN.039	**3.9**			
122FN.040	**4.0**			
122FN.041	**4.1**			
122FN.042	**4.2**			
122FN.043	**4.3**			
122FN.044	**4.4**			
122FN.045	**4.5**			
122FN.046	**4.6**			
122FN.047	**4.7**			
122FN.048	**4.8**	6	44	81
122FN.049	**4.9**			
122FN.050	**5.0**			
122FN.051	**5.1**			
122FN.052	**5.2**			
122FN.053	**5.3**			
122FN.054	**5.4**			
122FN.055	**5.5**			
122FN.056	**5.6**			
122FN.057	**5.7**			
122FN.058	**5.8**			
122FN.059	**5.9**			
122FN.060	**6.0**			
122FN.061	**6.1**	8	53	91
122FN.062	**6.2**			
122FN.063	**6.3**			
122FN.064	**6.4**			
122FN.065	**6.5**			
122FN.066	**6.6**			
122FN.067	**6.7**			
122FN.068	**6.8**			
122FN.069	**6.9**			

CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122FN.070	**7.0**	8	53	91
122FN.071	**7.1**			
122FN.072	**7.2**			
122FN.073	**7.3**			
122FN.075	**7.5**			
122FN.078	**7.8**			
122FN.079	**7.9**			
122FN.080	**8.0**			
122FN.081	**8.1**	10	60	103
122FN.082	**8.2**			
122FN.083	**8.3**			
122FN.085	**8.5**			
122FN.088	**8.8**			
122FN.090	**9.0**			
122FN.091	**9.1**			
122FN.092	**9.2**			
122FN.093	**9.3**			
122FN.094	**9.4**			
122FN.095	**9.5**			
122FN.096	**9.6**			
122FN.098	**9.8**			
122FN.099	**9.9**			
122FN.100	**10.0**			
122FN.101	**10.1**	12	70	118
122FN.102	**10.2**			
122FN.103	**10.3**			
122FN.104	**10.4**			
122FN.105	**10.5**			
122FN.106	**10.6**			
122FN.107	**10.7**			
122FN.108	**10.8**			
122FN.109	**10.9**			
122FN.110	**11.0**			
122FN.111	**11.1**			
122FN.112	**11.2**			
122FN.115	**11.5**			
122FN.116	**11.6**			
122FN.117	**11.7**			
122FN.118	**11.8**			
122FN.120	**12.0**			
122FN.122	**12.2**	14	77	124
122FN.123	**12.3**			
122FN.125	**12.5**			
122FN.128	**12.8**			
122FN.130	**13.0**			
122FN.135	**13.5**			
122FN.138	**13.8**			
122FN.140	**14.0**			
122FN.145	**14.5**	16	83	133
122FN.148	**14.8**			
122FN.150	**15.0**			
122FN.155	**15.5**			
122FN.158	**15.8**			
122FN.160	**16.0**			
122FN.165	**16.5**	18	93	143
122FN.168	**16.8**			
122FN.170	**17.0**			
122FN.175	**17.5**			
122FN.180	**18.0**			
122FN.200	**20.0**	20	101	153

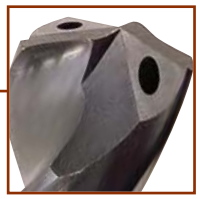
→ Help 198

INOX Stainless Steel

MICRO GRAIN | DIN 6537 | DIN 6535 Form HAK | 30° | 140° | HYPER | Z 2 | 5xd

Punta ad alte prestazioni in metallo duro integrale

Solid carbide high performance twist drill



VHM - Hochleistungsböhrer - Foret carbure à haut performance
Сверло спиральное твердосплавное высокопроизводительное - Sk vysoce výkonný vrták

CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122FALX.035	**3.5**	6	34	72
122FALX.037	**3.7**			
122FALX.038	**3.8**	6	43	81
122FALX.040	**4.0**			
122FALX.042	**4.2**			
122FALX.045	**4.5**			
122FALX.048	**4.8**	6	57	95
122FALX.050	**5.0**			
122FALX.051	**5.1**			
122FALX.052	**5.2**			
122FALX.055	**5.5**			
122FALX.058	**5.8**			
122FALX.060	**6.0**			
122FALX.061	**6.1**	8	76	114
122FALX.062	**6.2**			
122FALX.063	**6.3**			
122FALX.065	**6.5**			
122FALX.067	**6.7**			
122FALX.068	**6.8**			
122FALX.070	**7.0**			
122FALX.075	**7.5**			
122FALX.078	**7.8**			
122FALX.080	**8.0**			
122FALX.085	**8.5**	10	95	142
122FALX.088	**8.8**			
122FALX.090	**9.0**			

CODE	d1h7 mm	d2h6 mm	l1 mm	L mm
122FALX.092	**9.2**	10	95	142
122FALX.095	**9.5**			
122FALX.098	**9.8**			
122FALX.100	**10.0**			
122FALX.102	**10.2**	12	114	160
122FALX.103	**10.3**			
122FALX.105	**10.5**			
122FALX.107	**10.7**			
122FALX.108	**10.8**			
122FALX.110	**11.0**			
122FALX.115	**11.5**			
122FALX.118	**11.8**			
122FALX.120	**12.0**			
122FALX.122	**12.2**	14	130	175
122FALX.123	**12.3**			
122FALX.125	**12.5**			
122FALX.128	**12.8**			
122FALX.130	**13.0**			
122FALX.135	**13.5**			
122FALX.140	**14.0**			
122FALX.145	**14.5**	16	150	200
122FALX.150	**15.0**			
122FALX.155	**15.5**			
122FALX.160	**16.0**			
122FALX.180	**18.0**	18	170	220
122FALX.200	**20.0**	20	190	240

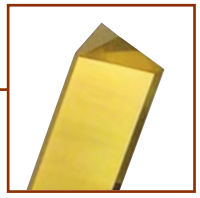
→ Help 198

HRC < 52 | STEEL | CAST IRON | INOX Stainless Steel | Aluminium

MICRO GRAIN | DIN 6537 | DIN 6535 Form HAK | 30° | 140° | HYPER | Z 2 | 8xd

Fresa rompimaschio in metallo duro integrale

Solid carbide tap destroying end mill



VHM Gewindeausbohrwerkzeug - Fraise carbure pour briser les tarauds
Фреза концевая твердосплавная для фрезерования резьбовых проемов
Sk fréza pro obrábění zalomených závitníků

CODE	THREAD	d1e9 mm	d2 mm	l1 mm	L mm	Z no.
145.033	**M4**	**3.3**	6	15	50	3
145.042	**M5**	**4.2**	6	15	50	3
145.050	**M6**	**5.0**	6	15	50	3
145.068	**M8**	**6.8**	8	20	60	3
145.085	**M10**	**8.5**	10	25	70	3
145.102	**M12**	**10.2**	12	30	75	3
145.120	**M14**	**12.0**	12	30	75	3
145.140	**M16**	**14.0**	14	40	100	3
145.155	**M18**	**15.5**	16	40	100	3
145.175	**M20**	**17.5**	18	50	100	3

VC = 90-100 m/min
FZ = 0.01-0.05mm

Set frese rompimaschio - Destroyng set end mills

CODE	COMPOSTO DA COMPOSED OF	Q.TY
145/SET	Ø3.3/4.2/5/6.8/8.5/10.2/12	1 EACH

HRC < 70

SUB MICRO GRAIN | DIN 6535 Form HA | 0° | 150° | Z 3 | TIN | LAPPED

Cutting speed

Richtwerte - Paramétres - Режимы обработки - Řezná rychlost

CODE: 122F - 122FL - 122FN - 122FALX

MATERIAL	HARDNESS	Type	VC	Ø				
				Ø 3 - 5	Ø 5 - 8	Ø 8.1 - 12	Ø 12.1 - 16	Ø 16.1 - 20
				FZ	FZ	FZ	FZ	FZ
Steel СТАЛЬ	< 500 N/mm2 < 800 N/mm2 < 1000 N/mm2 < 1300 N/mm2		70 - 90 50 - 80 45 - 60 40 - 55	0.001 0.010 0.010 0.010	0.012 0.012 0.012 0.012	0.015 0.015 0.013 0.013	0.020 0.020 0.017 0.017	0.025 0.025 0.020 0.020
Stainless Steel НЕРЖАВЕЮЩАЯ СТАЛЬ			25 ÷ 55	0.04 ÷ 0.10	0.05 ÷ 0.15	0.05 ÷ 0.18	0.08 ÷ 0.20	0.10 ÷ 0.20
Cast steel ЛИТАЯ СТАЛЬ	< 600 N/mm < 700 N/mm > 700 N/mm	GS 38 GS 52 GS 62	40 - 70 30 - 50 25 - 55	0.05 - 0.15 0.04 - 0.10 0.04 - 0.10	0.05 - 0.20 0.05 - 0.15 0.05 - 0.15	0.10 - 0.22 0.05 - 0.18 0.10 - 0.18	0.10 - 0.25 0.08 - 0.20 0.08 - 0.20	0.10 - 0.25 0.10 - 0.20 0.10 - 0.20
Cast Iron ЧУГУН	< 200 N/mm	GG 20 GGG 40 GTS 45	80 - 130	0.10 - 0.25	0.15 - 0.30	0.20 - 0.40	0.25 - 0.45	0.30 - 0.50
	< 250 N/mm	GG 30 GGG 50 GTS 40	70 - 115	0.10 - 0.20	0.12 - 0.25	0.15 - 0.35	0.20 - 0.40	0.25 - 0.45
	> 250 N/mm	GG 40 GGG 70 GTS 70	60 - 100	0.10 - 0.20	0.12 - 0.25	0.15 - 0.35	0.20 - 0.40	0.25 - 0.45
	350 HB 450 HB		25 - 65	0.04 - 0.10	0.06 - 0.12	0.08 - 0.15	0.08 - 0.15	0.10 - 0.18
Copper - Bronze - Brass МЕДЬ – БРОНЗА – ЛАТУНЬ			70 - 300	0.07 - 0.18	0.12 - 0.25	0.20 - 0.35	0.25 - 0.45	0.30 - 0.50
Aluminium АЛЮМИНИЙ		> 10 % Si < 10 % Si	90 - 300 100 - 400	0.10 - 0.25 0.10 - 0.25	0.15 - 0.35 0.15 - 0.35	0.25 - 0.45 0.25 - 0.45	0.30 - 0.50 0.30 - 0.50	0.35 - 0.55 0.35 - 0.55
Titanium ТИТАН			15 - 45	0.02 - 0.07	0.04 - 0.10	0.06 - 0.12	0.08 - 0.15	0.08 - 0.15
Inconel ИНКОНЕЛЬ		Inconel	15 - 35	0.02 - 0.07	0.04 - 0.10	0.06 - 0.12	0.08 - 0.15	0.08 - 0.15

CORRECTION FACTORS - УТОЧНЯЮЩИЕ ДАННЫЕ

5 x d = x 0,8
8 x d = x 0,7

CODE: CTM

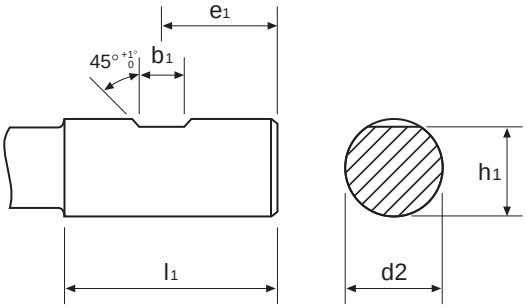
MATERIAL	HARDNESS	VC	Ø			
			Ø 1 - 2	Ø 3-4	Ø 6 - 8	Ø 10 - 12
			FZ	FZ	FZ	FZ
Steel СТАЛЬ	< 500 N/mm2 < 800 N/mm2 < 1000 N/mm2 < 1300 N/mm2	70 - 90 50 - 80 45 - 60 40 - 50	0.001 0.01 0.01 0.01	0.012 0.012 0.012 0.012	0.015 0.015 0.013 0.013	0.02 0.02 0.017 0.017
Stainless Steel-Steel НЕРЖАВЕЮЩАЯ СТАЛЬ	< 1300 N/mm2	35 - 50	0.07	0.01	0.01	0.015
Cast Iron ЧУГУНn	< 180 HB	45-60	0,01	0,012	0,013	0,017
Cast Iron ЧУГУНn	< 180 HB	40-55	0,01	0,012	0,013	0,017
Inconel - Titanium ИНКОНЕЛЬ – ТИТАН		25-40	0,007	0,01	0,01	0,015
Copper - Bronze - Brass МЕДЬ - БРОНЗА - ЛАТУНЬ		60-100	0,012	0,012	0,015	0,02
Aluminium АЛЮМИНИЙ	<6% Si >6% Si	80-120 110-180	0,012 0,012	0,012 0,012	0,015 0,015	0,02 0,02

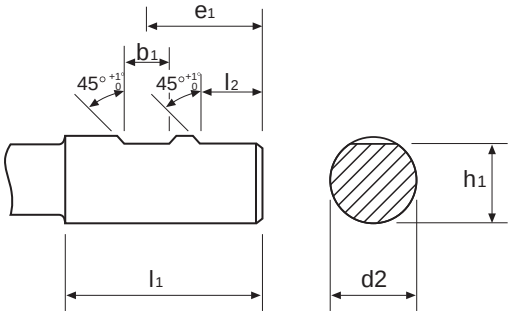
Dimensioni gambi weldon DIN 6535 HB a richiesta

Weldon shank dimentions DIN 6535 HB on request

Dimension Weldon DIN 6535 HB auf Anfrage - Dimensions queue weldon DIN 6535 HB sur demande
Хвостовик типа Weldon DIN 6535 HB

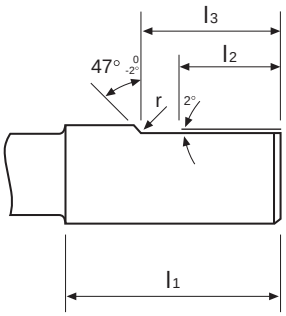
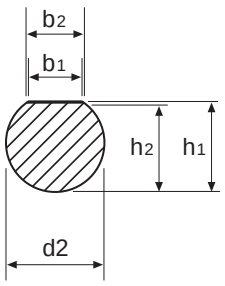
d2 mm	b1 mm	e1 mm	h1 mm	l1 mm	l2 mm
6	4.2	18.0	5.1	36	-
8	5.5	18.0	6.9	36	-
10	7.0	20.0	8.5	40	-
12	8.0	22.5	10.4	45	-
14	8.0	22.5	12.7	45	-
16	10.0	24.0	14.2	48	-
18	10.0	24.0	16.2	48	-
20	11.0	25.0	18.2	50	-
25	12.0	32.0	23.0	56	17
32	14.0	36.0	30.0	60	19





Dimensioni gambi flat DIN 6535 HE a richiesta

Whistle notch shank dimentions DIN 6535 HE on request

Dimension spannflache DIN 6535 HE auf anfrage - Dimensions queue flat DIN 6535 HE sur demande
ХвостовиктипаHEWeldon DIN 6535

d2 mm	b1 mm	b2 mm	h2 mm	h1 mm	l1 mm	l2 mm	l3 mm	r mm
6	3.5	4.8	5.4	4.8	36	25	18	1.2
8	4.7	6.1	7.2	6.6	36	25	18	1.2
10	5.7	7.3	9.1	8.4	40	28	20	1.2
12	6.0	8.2	11.2	10.4	45	33	22.5	1.2
16	7.6	10.1	15.0	14.2	48	36	24	1.6
20	8.4	11.5	19.1	18.2	50	38	25	1.6
25	9.3	13.6	24.1	23.0	56	44	32	1.6
32	9.4	15.5	31.2	30.0	60	48	35	1.6