

FRESE TPOWER

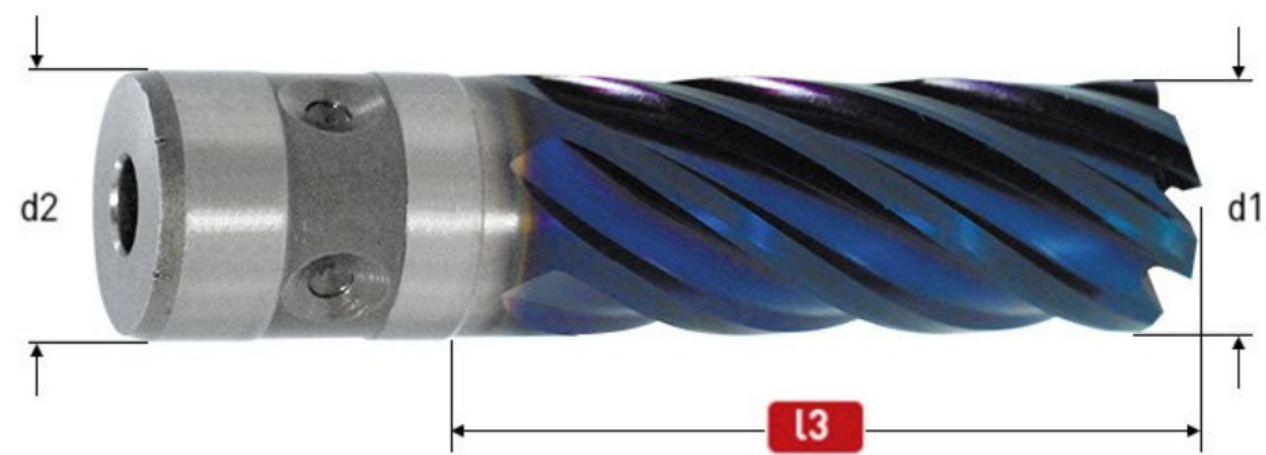
FRESE A TAZZA INTERCAMBIALBILE

TPOWER MAX



FRESE A TAZZA IN HM

FRESE PER TRAPANI MAGNETICI **QUICK-IN - WELDON**





FRESE TPOWER

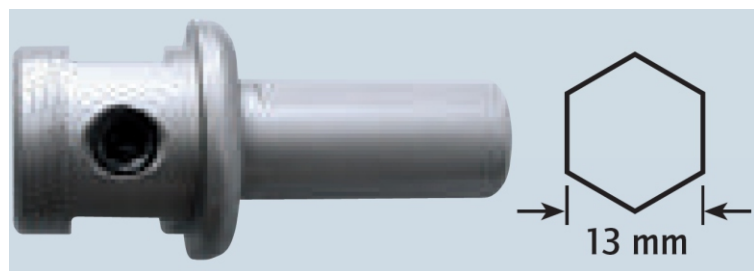
FRESE LUNGHEZZA 30 MM LARGHEZZA
DENTE IN TCT 4 MM

TP6-A014	fresa diametro 14 mm
TP6-A0145	fresa diametro 14,5 mm
TP6-A015	fresa diametro 15 mm
TP6-A016	fresa diametro 16 mm
TP6-A0165	fresa diametro 16,5 mm
TP6-A017	fresa diametro 17 mm
TP6-A018	fresa diametro 18 mm
TP6-A0185	fresa diametro 18,5 mm
TP6-A019	fresa diametro 19 mm
TP6-A020	fresa diametro 20 mm
TP6-A0205	fresa diametro 20,5 mm
TP6-A021	fresa diametro 21 mm
TP6-A022	fresa diametro 22 mm
TP6-A0225	fresa diametro 22,5 mm
TP6-A023	fresa diametro 23 mm
TP6-A024	fresa diametro 24 mm
TP6-A025	fresa diametro 25 mm
TP6-A0255	fresa diametro 25,5 mm
TP6-A026	fresa diametro 26 mm
TP6-A027	fresa diametro 27 mm
TP6-A028	fresa diametro 28 mm
TP6-A029	fresa diametro 29 mm
TP6-A030	fresa diametro 30 mm
TP6-A0305	fresa diametro 30,5 mm
TP6-A031	fresa diametro 31 mm
TP6-A032	fresa diametro 32 mm
TP6-A0325	fresa diametro 32,5 mm
TP6-A033	fresa diametro 33 mm
TP6-A034	fresa diametro 34 mm
TP6-A035	fresa diametro 35 mm
TP6-A036	fresa diametro 36 mm
TP6-A037	fresa diametro 37 mm
TP6-A038	fresa diametro 38 mm
TP6-A0385	fresa diametro 38,5 mm
TP6-A039	fresa diametro 39 mm
TP6-A040	fresa diametro 40 mm

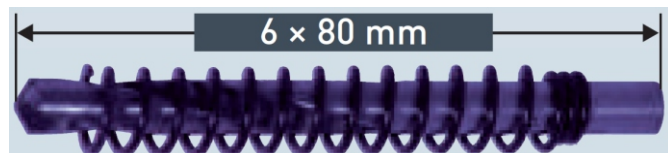
TP6-A0405	fresa diametro 40,5 mm
TP6-A041	fresa diametro 41 mm
TP6-A042	fresa diametro 42 mm
TP6-A043	fresa diametro 43 mm
TP6-A044	fresa diametro 44 mm
TP6-A045	fresa diametro 45 mm
TP6-A046	fresa diametro 46 mm
TP6-A047	fresa diametro 47 mm
TP6-A048	fresa diametro 48 mm
TP6-A049	fresa diametro 49 mm
TP6-A050	fresa diametro 50 mm
TP6-A0505	fresa diametro 50,5 mm
TP6-A051	fresa diametro 51 mm
TP6-A052	fresa diametro 52 mm
TP6-A053	fresa diametro 53 mm
TP6-A054	fresa diametro 54 mm
TP6-A055	fresa diametro 55 mm
TP6-A056	fresa diametro 56 mm
TP6-A057	fresa diametro 57 mm
TP6-A058	fresa diametro 58 mm
TP6-A059	fresa diametro 59 mm
TP6-A060	fresa diametro 60 mm
TP6-A0605	fresa diametro 60,5 mm
TP6-A061	fresa diametro 61 mm
TP6-A062	fresa diametro 62 mm
TP6-A063	fresa diametro 63 mm
TP6-A064	fresa diametro 64 mm
TP6-A065	fresa diametro 65 mm
TP6-A066	fresa diametro 66 mm
TP6-A067	fresa diametro 67 mm
TP6-A068	fresa diametro 68 mm
TP6-A069	fresa diametro 69 mm
TP6-A070	fresa diametro 70 mm
TP6-A071	fresa diametro 71 mm
TP6-A072	fresa diametro 72 mm
TP6-A073	fresa diametro 73 mm

TP6-A074	fresa diametro 74 mm
TP6-A075	fresa diametro 75 mm
TP6-A076	fresa diametro 76 mm
TP6-A077	fresa diametro 77 mm
TP6-A078	fresa diametro 78 mm
TP6-A079	fresa diametro 79 mm
TP6-A080	fresa diametro 80 mm
TP6-A081	fresa diametro 81 mm
TP6-A082	fresa diametro 82 mm
TP6-A083	fresa diametro 83 mm
TP6-A084	fresa diametro 84 mm
TP6-A085	fresa diametro 85 mm
TP6-A086	fresa diametro 86 mm
TP6-A087	fresa diametro 87 mm
TP6-A088	fresa diametro 88 mm
TP6-A089	fresa diametro 89 mm
TP6-A090	fresa diametro 90 mm
TP6-A091	fresa diametro 91 mm
TP6-A092	fresa diametro 92 mm
TP6-A093	fresa diametro 93 mm
TP6-A094	fresa diametro 94 mm
TP6-A095	fresa diametro 95 mm
TP6-A096	fresa diametro 96 mm
TP6-A097	fresa diametro 97 mm
TP6-A098	fresa diametro 98 mm
TP6-A099	fresa diametro 99 mm
TP6-A100	fresa diametro 100 mm
TP6-A105	fresa diametro 105 mm
TP6-A110	fresa diametro 110 mm
TP6-A115	fresa diametro 115 mm
TP6-A120	fresa diametro 120 mm
TP6-A125	fresa diametro 125 mm
TP6-A130	fresa diametro 130 mm
TP6-A135	fresa diametro 135 mm
TP6-A140	fresa diametro 140 mm
TP6-A145	fresa diametro 145 mm
TP6-A150	fresa diametro 150 mm

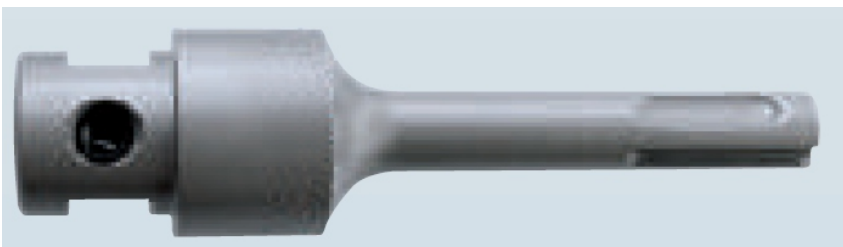
FRESE TPOWER ADATTATORI



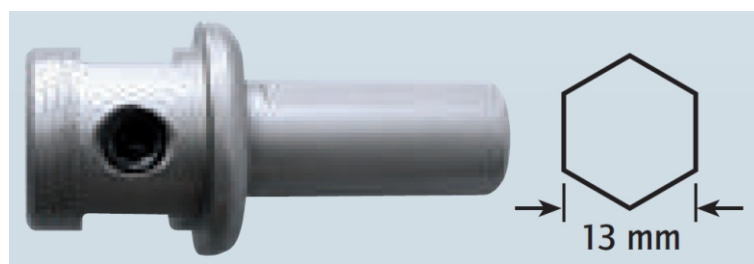
ADATTATORE GAMBO 13 MM
PER FRESE DIAMETRO DA 14 A
60.5 MM COD. TP8-34



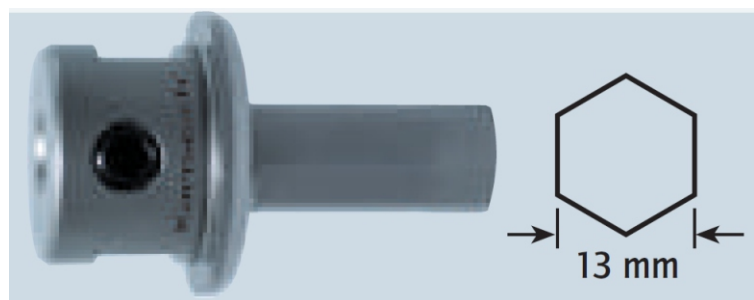
PUNTA DI CENTRAGGIO
COD. TP8-45 X TP8-34



ADATTATORE GAMBO 13 MM
PER FRESE DIAMETRO DA 14 A
60,5 MM COD. TP8-23



ADATTATORE GAMBO 13 MM
PER FRESE DIAMETRO DA 61 A
100 MM COD. TP8-37



ADATTATORE GAMBO 13 MM
PER FRESE DIAMETRO DA 105 A
150 MM COD. TP8-56



PUNTA DI CENTRAGGIO
COD. TP8-46

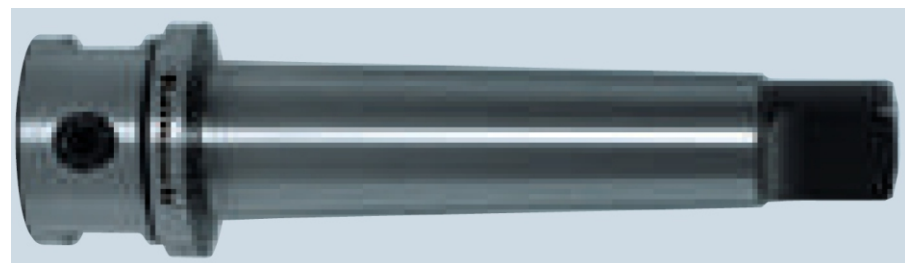
FRESE TPOWER ADATTATORI



ADATTATORE
CONO MORSE 2 PER FRESE
DA 16 A 100 MM
COD. TP8-35



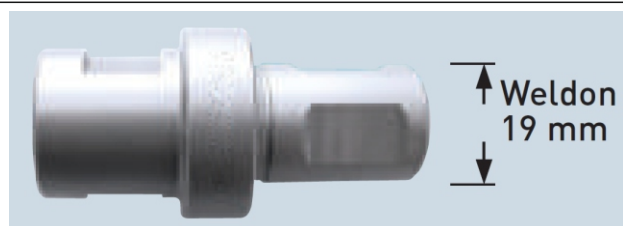
ADATTATORE
CONO MORSE 3 PER FRESE
DA 16 A 100 MM
COD. TP8-36



ADATTATORE
CONO MORSE 3 PER FRESE
DA 105 A 150 MM
COD. TP8-59



PUNTA DI CENTRAGGIO
COD. TP8-46



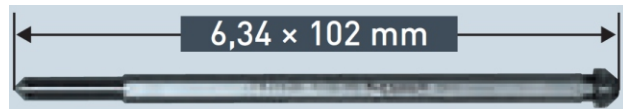
ADATTATORE
WELDON PER PER FRESE
DA 14 A 100 MM
COD. TP8-42



CENTRATORE PER
WELDON 19 MM X TP8-42
COD. TP8-71



ADATTATORE
QUICK-IN PER PER FRESE
DA 14 A 100 MM
COD. TP8-43



CENTRATORE PER
QUICK-IN 18 MM
COD. TP8-54

VELOCITA' CONSIGLIATE PER FRESE TPOWER

Ø mm Zoll / Inch		12-18	19-25	26-32	33-39	40-46	47-53	54-60	61-70	71-80	81-90	91-100	101-112	113-124	125-136	137-150
		7/16" - 1. 1/16"	3/4" - 1"	1. 1/16" - 1. 1/4"	1. 5/16" - 1. 9/16"	1. 5/8" - 1. 13/16"	1. 7/8" - 2. 1/16"	2. 1/8" - 2. 3/8"	2. 13/32" - 2. 3/4"	2. 51/64" - 3. 5/32"	3. 3/16" - 3. 9/16"	3. 19/32" - 3. 15/16"	3. 31/32" - 4. 13/32"	4. 15/32" - 4. 7/8"	4. 15/16" - 5. 11/32"	5. 13/32" - 5. 29/32"
	Stahl · Steel < 500 N	1475	838	612	483	398	338	295	261	224	197	175	158	141	127	116
		885	637	498	408	346	300	265	227	199	177	159	142	128	117	106
	Stahl · Steel < 750 N	1327	754	550	434	358	304	265	234	201	177	157	142	127	114	104
		796	537	448	367	311	270	230	204	179	159	143	128	115	105	95
	Stahl · Steel < 900 N	930	590	430	335	280	239	205	182	155	137	122	108	98	89	80
		620	450	340	285	240	210	185	160	140	125	110	100	90	81	75
	Stahl · Steel < 1200 N	795	500	370	290	240	200	175	155	135	117	104	94	84	76	69
		530	380	300	245	265	180	160	135	120	105	95	85	77	70	63
	Stahl · Steel < 1400 N	660	420	305	240	195	165	145	125	110	95	85	75	68	63	57
		440	320	250	200	170	150	130	115	100	90	80	70	65	58	50
	Edelstahl Stainless steel	530	340	245	195	160	135	115	103	87	77	68	62	55	56	45
		350	250	200	165	140	120	105	90	78	70	63	56	51	46	42
	Alu Aluminum	2390	1510	1100	870	715	610	530	470	405	355	315	283	253	229	209
		1590	1150	895	735	625	540	480	410	360	320	285	255	230	210	190
	Grauguss Grey cast iron	930	590	430	335	280	239	205	182	155	137	122	108	98	89	80
		620	450	340	285	240	210	185	160	140	125	110	100	90	81	75
	Bronze Brass	1325	840	615	490	400	340	295	260	225	195	174	157	140	127	116
		885	635	500	410	345	300	265	230	200	175	160	145	130	117	105
	Kupfer Copper	930	590	430	335	280	239	205	182	155	137	122	108	98	89	80
		620	450	340	285	240	210	185	160	140	125	110	100	90	81	75
	Kunststoffe, Plexi- glas, Glasfaser Plastics, Plexi- glass, Fibreglass	800	670	490	386	318	271	236	200	180	150	140	120	105	99	91
		700	510	398	327	277	240	212	182	159	142	127	110	100	95	85

FRESE PER TRAPANI MAGNETICI QUICK-IN RIVESTIMENTO BLUTEC



L3 = 40 MM

CODICE	DESCRIZIONE
TP6-46014	FRESA BLUTEC QUICK IN 14
TP6-46016	FRESA BLUTEC QUICK IN 16
TP6-46018	FRESA BLUTEC QUICK IN 18
TP6-46020	FRESA BLUTEC QUICK IN 20
TP6-46022	FRESA BLUTEC QUICK IN 22
TP6-46024	FRESA BLUTEC QUICK IN 24
TP6-46026	FRESA BLUTEC QUICK IN 26
TP6-46028	FRESA BLUTEC QUICK IN 28
TP6-46030	FRESA BLUTEC QUICK IN 30

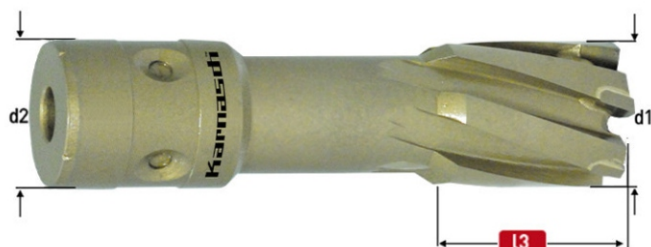
FRESE PER TRAPANI MAGNETICI QUICK-IN RIVESTIMENTO SILVERTEC



L3 = 40 MM

CODICE	DESCRIZIONE
TP6-46U014	FRESA SILVERTEC QUICK IN 14
TP6-46U016	FRESA SILVERTEC QUICK IN 16
TP6-46U018	FRESA SILVERTEC QUICK IN 18
TP6-46U020	FRESA SILVERTEC QUICK IN 20
TP6-46U022	FRESA SILVERTEC QUICK IN 22
TP6-46U024	FRESA SILVERTEC QUICK IN 24
TP6-46U026	FRESA SILVERTEC QUICK IN 26
TP6-46U028	FRESA SILVERTEC QUICK IN 28
TP6-46U030	FRESA SILVERTEC QUICK IN 30

FRESE PER TRAPANI MAGNETICI QUICK-IN TCT



L3 = 40 MM

CODICE	DESCRIZIONE
TP6-47014	FRESE TCT QUICK IN 14
TP6-47015	FRESE TCT QUICK IN 16
TP6-47016	FRESE TCT QUICK IN 18
TP6-47017	FRESE TCT QUICK IN 20
TP6-47018	FRESE TCT QUICK IN 22
TP6-47019	FRESE TCT QUICK IN 24
TP6-47020	FRESE TCT QUICK IN 26
TP6-47021	FRESE TCT QUICK IN 28
TP6-47022	FRESE TCT QUICK IN 30

FRESE PER TRAPANI MAGNETICI

WELDON BLUTEC

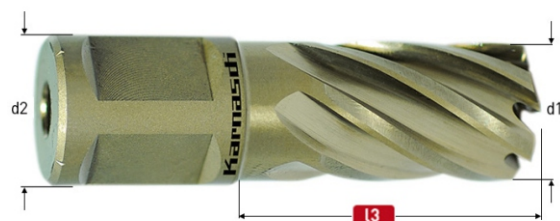


L3 = 30 MM

CODICE	DESCRIZIONE
TP6-12014	FRESE BLUTEC WELDON 14
TP6-12016	FRESE BLUTEC WELDON 16
TP6-12018	FRESE BLUTEC WELDON 18
TP6-12020	FRESE BLUTEC WELDON 20
TP6-12022	FRESE BLUTEC WELDON 22
TP6-12024	FRESE BLUTEC WELDON 24
TP6-12026	FRESE BLUTEC WELDON 26
TP6-12028	FRESE BLUTEC WELDON 28
TP6-12030	FRESE BLUTEC WELDON 30

FRESE PER TRAPANI MAGNETICI

WELDON GOLD

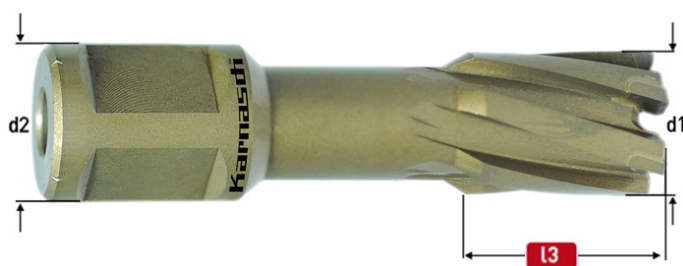


L3 = 30 MM

CODICE	DESCRIZIONE
TP6-26U014	FRESE GOLD WELDON 14
TP6-26U016	FRESE GOLD WELDON 16
TP6-26U018	FRESE GOLD WELDON 18
TP6-26U020	FRESE GOLD WELDON 20
TP6-26U022	FRESE GOLD WELDON 22
TP6-26U024	FRESE GOLD WELDON 24
TP6-26U026	FRESE GOLD WELDON 26
TP6-26U028	FRESE GOLD WELDON 28
TP6-26U030	FRESE GOLD WELDON 30

FRESE PER TRAPANI MAGNETICI

WELDON TCT HARD

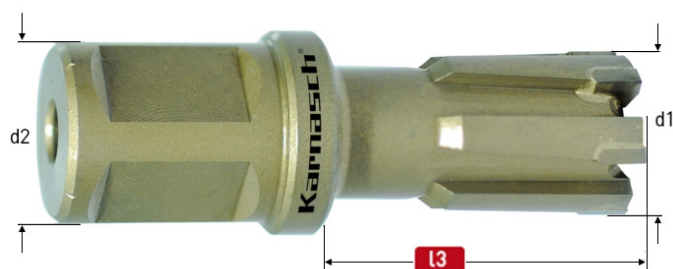


L3 = 40 MM

CODICE	DESCRIZIONE
TP6-15014	FRESE TCT WELDON HARD 14
TP6-15016	FRESE TCT WELDON HARD 16
TP6-15018	FRESE TCT WELDON HARD 18
TP6-15020	FRESE TCT WELDON HARD 20
TP6-15022	FRESE TCT WELDON HARD 22
TP6-15024	FRESE TCT WELDON HARD 24
TP6-15026	FRESE TCT WELDON HARD 26
TP6-15028	FRESE TCT WELDON HARD 28
TP6-15030	FRESE TCT WELDON HARD 30

FRESE PER TRAPANI MAGNETICI

WELDON TCT X HARDOX



L3 = 25 MM

CODICE	DESCRIZIONE
TP6-80014	FRESE TCT WELDON X HARDOX 14
TP6-80016	FRESE TCT WELDON X HARDOX 16
TP6-80018	FRESE TCT WELDON X HARDOX 18
TP6-80020	FRESE TCT WELDON X HARDOX 20
TP6-80022	FRESE TCT WELDON X HARDOX 22
TP6-80024	FRESE TCT WELDON X HARDOX 24
TP6-80026	FRESE TCT WELDON X HARDOX 26
TP6-80028	FRESE TCT WELDON X HARDOX 28
TP6-80030	FRESE TCT WELDON X HARDOX 30



VELOCITA GIRI CONSIGLIATE PER FRESE HSS

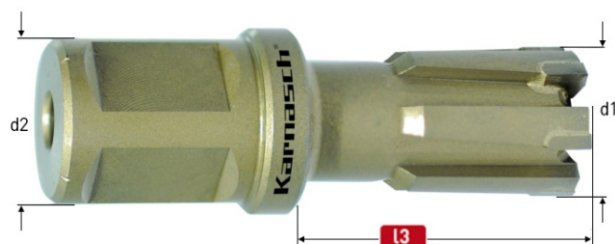
Ø	mm Zoll / Inch	12-18	19-25	26-32	33-39	40-46	47-53	54-60	61-70	71-80	81-90	91-100	101-112	113-124	125-136	137-150
		7/16" - 1. 1/16"	3/4" - 1"	1. 1/16" - 1. 1/4"	1. 5/16" - 1. 9/16"	1. 5/8" - 1. 13/16"	1. 7/8" - 2. 1/16"	2. 1/8" - 2. 3/8"	2. 13/32" - 2. 3/4"	2. 51/64" - 3. 5/32"	3. 3/16" - 3. 9/16"	3. 19/32" - 3. 15/16"	3. 31/32" - 4. 13/32"	4. 15/32" - 4. 7/8"	4. 15/16" - 5. 11/32"	5. 13/32" - 5. 29/32"
	Stahl · Steel < 500 N	660	420	305	240	195	165	145	125	110	95	85	75	68	63	57
		440	320	250	200	170	150	130	115	100	90	80	70	65	58	50
	Stahl · Steel < 750 N	530	340	245	195	160	135	115	163	87	77	68	62	55	50	45
		350	250	200	165	140	120	105	90	78	70	63	56	51	46	42
	Stahl · Steel < 900 N	340	250	185	145	120	100	88	78	67	58	52	47	41	38	34
		265	190	150	125	105	90	80	68	59	53	48	42	39	35	31
	Stahl · Steel < 1200 N	265	165	125	95	79	67	58	52	44	39	34	31	27	25	22
		175	130	100	80	70	60	53	45	40	35	32	28	26	23	21
	Stahl · Steel < 1400 N	185	117	85	67	55	47	41	36	30	26	23	21	18	16	16
		125	90	70	57	48	42	37	31	27	24	22	19	17		14
	Edelstahl Stainless steel	320	200	145	115	90	80	70	62	53	46	41	37	32	29	27
		210	150	120	95	85	72	63	54	47	42	38	33	30	28	25
	Alu Aluminum	980	620	455	360	295	250	220	193	165	145	129	116	104	94	85
		655	470	370	305	255	225	195	170	150	130	117	105	95	86	78
	Grauguss Grey cast iron	480	300	200	175	143	122	106	93	80	70	62	56	50	45	41
		320	230	180	147	125	108	95	81	71	63	57	51	46	42	38
	Bronze Brass	660	420	305	240	195	165	145	125	110	95	85	75	68	63	57
		440	320	250	200	170	150	130	115	100	90	80	70	65	58	50
	Kupfer Copper	1060	670	490	390	320	270	235	205	178	157	138	127	110	100	90
		700	510	400	330	280	240	210	180	160	140	130	115	105	95	85



VELOCITA GIRI CONSIGLIATE PER FRESE TCT

Ø	mm	12-18	19-25	26-32	33-39	40-46	47-53	54-60	61-70	71-80	81-90	91-100	101-112	113-124	125-136	137-150
	Zoll / Inch	7/16" - 1.1/16"	3/4" - 1"	1.1/16" - 1.1/4"	1.5/16" - 1.9/16"	1.5/8" - 1.13/16"	1.7/8" - 2.1/16"	2.1/8" - 2.3/8"	2.13/32" - 2.3/4"	2.51/64" - 3.5/32"	3.3/16" - 3.9/16"	3.19/32" - 3.15/16"	3.31/32" - 4.13/32"	4.15/32" - 4.7/8"	4.15/16" - 5.11/32"	5.13/32" - 5.29/32"
	Stahl · Steel < 500 N	1475	838	612	483	398	338	295	261	224	197	175	158	141	127	116
		885	637	498	408	346	300	265	227	199	177	159	142	128	117	106
	Stahl · Steel < 750 N	1327	754	550	434	358	304	265	234	201	177	157	142	127	114	104
		796	537	448	367	311	270	230	204	179	159	143	128	115	105	95
	Stahl · Steel < 900 N	930	590	430	335	280	239	205	182	155	137	122	108	98	89	80
		620	450	340	285	240	210	185	160	140	125	110	100	90	81	75
	Stahl · Steel < 1200 N	795	500	370	290	240	200	175	155	135	117	104	94	84	76	69
		530	380	300	245	265	180	160	135	120	105	95	85	77	70	63
	Stahl · Steel < 1400 N	660	420	305	240	195	165	145	125	110	95	85	75	68	63	57
		440	320	250	200	170	150	130	115	100	90	80	70	65	58	50
	Edelstahl Stainless steel	530	340	245	195	160	135	115	103	87	77	68	62	55	56	45
		350	250	200	165	140	120	105	90	78	70	63	56	51	46	42
	Alu Aluminum	2390	1510	1100	870	715	610	530	470	405	355	315	283	253	229	209
		1590	1150	895	735	625	540	480	410	360	320	285	255	230	210	190
	Grauguss Grey cast iron	930	590	430	335	280	239	205	182	155	137	122	108	98	89	80
		620	450	340	285	240	210	185	160	140	125	110	100	90	81	75
	Bronze Brass	1325	840	615	490	400	340	295	260	225	195	174	157	140	127	116
		885	635	500	410	345	300	265	230	200	175	160	145	130	117	105
	Kupfer Copper	930	590	430	335	280	239	205	182	155	137	122	108	98	89	80
		620	450	340	285	240	210	185	160	140	125	110	100	90	81	75

VELOCITA GIRI CONSIGLIATE FRESE TCT X HARDOX



Ø mm	Ø Zoll / Inch	Material / Material to be cut	
		HARDOX 500, Harte Stähle max. 50 HRC (U/min) / Hard steel max. 50 HRC (rpm)	HARDOX 400, Harte Stähle max. 40 HRC (U/min) / Hard steel max. 40 HRC (rpm)
14	35/64"	751	796
15	19/32"	701	743
16	5/8"	657	697
17	43/64"	618	656
18	45/64"	584	619
19	3/4"	553	587
20	25/32"	525	557
21	53/64"	500	531
22	55/64"	478	507
23	29/32"	457	485
24	15/16"	438	464
25	63/64"	420	446
26	1.1/32"	404	429
27	1.1/16"	389	413
28	1.7/64"	375	398
29	1.9/64"	362	384
30	1.3/16"	350	372

31	1.7/32"	339	360
32	1.17/64"	328	348
33	1.19/64"	318	338
34	1.11/32"	309	328
35	1.3/8"	300	318
36	1.27/64"	292	310
37	1.29/64"	284	301
38	1.1/2"	277	293
39	1.17/32"	269	286
40	1.37/64"	263	279
41	1.39/64"	256	272
42	1.21/32"	250	265
43	1.11/16"	244	259
44	1.47/64"	239	253
45	1.49/64"	234	248
46	1.13/16"	228	242
47	1.27/32"	224	237
48	1.57/64"	219	232
49	1.59/64"	214	227
50	1.31/32"	210	223
51	2.1/64"	206	219
52	2.3/64"	202	214
53	2.3/32"	198	210
54	2.1/8"	195	206
55	2.11/64"	191	203
56	2.13/64"	188	199
57	2.1/4"	184	196
58	2.9/32"	181	192
59	2.21/64"	178	189
60	2.23/64"	175	186