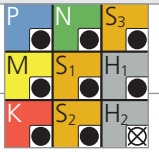
CrazyMill Cool Vollradius - Typ C - Schlichten

ANWENDUNGSEMPFEHLUNG
● Sehr gut geeignet | ◐ Gut geeignet | ○ bedingt geeignet | ⊠ Nicht empfohlen

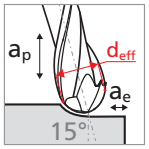


v_c [m/min]
f_z [mm]
d_{eff} [mm]

FRÄSEN MIT INTEGRIERTER KÜHLUNG | SCHNITTDATENÜBERSICHT

Werk-stoff-gruppe	Werkstoff	Wr.Nr.	DIN	Ød1 0.3 mm			Ød1 0.4 mm			Ød1 0.5 mm			Ød1 0.6 mm			Ød1 0.8 mm			Ød1 1.0 mm			Ød1 1.2 mm			Ød1 1.5 mm			Ød1 1.8 mm			Ød1 2.0 mm			Ød1 2.5 mm			Ød1 3.0 mm			Ød1 4.0 mm			Ød1 6.0 mm			Ød1 8.0 mm		
				v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z
P	Stähle unlegiert Rm < 800 N/mm²	1.0301	C10	45	0.24	0.006	59	0.31	0.008	74	0.39	0.012	89	0.47	0.014	100	0.63	0.017	140	0.79	0.018	140	0.94	0.020	200	1.18	0.029	200	1.42	0.031	220	1.57	0.041	220	1.97	0.043	240	2.36	0.048	260	3.15	0.060	260	4.72	0.060	260	6.29	0.060
		1.0401	C15																																													
		1.1191	C45E/CK45																																													
		1.0044	S275JR																																													
		1.0715	11SMn30																																												
	Stähle niedriglegiert Rm > 900 N/mm²	1.5752	15NiCr13	45	0.24	0.005	59	0.31	0.007	74	0.39	0.011	89	0.47	0.013	100	0.63	0.014	140	0.79	0.017	140	0.94	0.019	200	1.18	0.026	200	1.42	0.029	220	1.57	0.038	220	1.97	0.041	240	2.36	0.046	260	3.15	0.058	260	4.72	0.058	260	6.29	0.058
		1.7131	16MnCr5																																												
		1.3505	100Cr6																																												
		1.7225	42CrMo4																																												
		1.2842	90MnCrV8																																												
	Werkzeugstähle hochlegiert Rm < 1200 N/mm²	1.2379	X153CrMoV12	45	0.24	0.005	59	0.31	0.007	74	0.39	0.010	89	0.47	0.011	100	0.63	0.013	140	0.79	0.013	140	0.94	0.016	200	1.18	0.024	200	1.42	0.026	220	1.57	0.036	220	1.97	0.038	240	2.36	0.042	260	3.15	0.053	260	4.72	0.053	260	6.29	0.053
		1.2436	X210CrW12																																												
		1.3343	HS6-5-2C																																												
		1.3355	HS18-0-1																																												
M	Rostfreie Stähle-ferritisch	1.4016	X6Cr17	45	0.24	0.006	59	0.31	0.008	74	0.39	0.012	89	0.47	0.014	100	0.63	0.017	140	0.79	0.019	140	0.94	0.022	200	1.18	0.029	200	1.42	0.031	220	1.57	0.041	220	1.97	0.043	240	2.36	0.048	260	3.15	0.058	260	4.72	0.058	260	6.29	0.058
		1.4105	X6CrMoS17																																												
	Rostfreie Stähle-martensitisch	1.4034	X46Cr13	45	0.24	0.005	59	0.31	0.007	74	0.39	0.011	89	0.47	0.012	100	0.63	0.014	140	0.79	0.018	140	0.94	0.020	200	1.18	0.026	200	1.42	0.029	220	1.57	0.038	220	1.97	0.041	240	2.36	0.043	260	3.15	0.055	260	4.72	0.055	260	6.29	0.055
		1.4112	X90CrMoV18																																												
	Rostfreie Stähle-martensitisch–PH	1.4542	X5CrNiCuNb 16-4	45	0.24	0.005	59	0.31	0.007	74	0.39	0.011	89	0.47	0.012	100	0.63	0.014	140	0.79	0.018	140	0.94	0.020	200	1.18	0.026	200	1.42	0.029	220	1.57	0.038	220	1.97	0.041	240	2.36	0.043	260	3.15	0.055	260	4.72	0.055	260	6.29	0.055
		1.4545	X5CrNiCuNb 15-5																																												
	Rostfreie Stähle-austenitisch	1.4301	X5CrNi 18-10	45	0.24	0.005	59	0.31	0.007	74	0.39	0.010	89	0.47	0.012	100	0.63	0.013	140	0.79	0.014	140	0.94	0.017	200	1.18	0.019	200	1.42	0.022	220	1.57	0.036	220	1.97	0.038	240	2.36	0.041	260	3.15	0.053	260	4.72	0.053	260	6.29	0.053
		1.4435	X2CrNiMo 18-14-3																																												
		1.4441	X2CrNiMo 18-15-3																																												
		1.4539	X1NiCrMoCu25-20-5																																												
K	Gusseisen	0.6020	GG20	45	0.24	0.004	59	0.31	0.006	74	0.39	0.007	89	0.47	0.009	100	0.63	0.011	120	0.79	0.013	120	0.94	0.026	140	1.18	0.029	140	1.42	0.031	160	1.57	0.034	160	1.97	0.043	180	2.36	0.050	200	3.15	0.062	200	4.72	0.062	200	6.29	0.062
		0.6030	GG30																																												
		0.7040	GGG40																																												
		0.7060	GGG60																																												

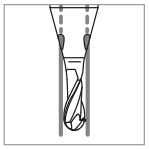
Schlichten

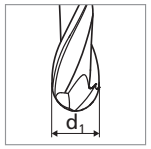


- $a_p = 0.1 \times d_1$
- $a_e = 0.05 \times d_1$

Bearbeitungswinkel = 15°

n_{max} = 60'000 rpm





CrazyMill Cool Vollradius - Typ C - Schlichten

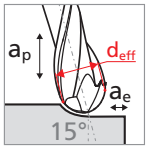
ANWENDUNGSEMPFEHLUNG
● Sehr gut geeignet | ◐ Gut geeignet | ○ bedingt geeignet | ⊠ Nicht empfohlen

v_c [m/min]
f_z [mm]
d_{eff} [mm]

FRÄSEN MIT INTEGRIERTER KÜHLUNG | SCHNITTDATENÜBERSICHT

Werkstoffgruppe	Werkstoff	Wr.Nr.	DIN	Ød1 0.3 mm			Ød1 0.4 mm			Ød1 0.5 mm			Ød1 0.6 mm			Ød1 0.8 mm			Ød1 1.0 mm			Ød1 1.2 mm			Ød1 1.5 mm			Ød1 1.8 mm			Ød1 2.0 mm			Ød1 2.5 mm			Ød1 3.0 mm			Ød1 4.0 mm			Ød1 6.0 mm			Ød1 8.0 mm		
				v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z	v_c	d_{eff}	f_z
N	Aluminium Knetlegierungen	3.2315	AlMgSi1	45	0.24	0.007	59	0.31	0.010	74	0.39	0.014	89	0.47	0.017	100	0.63	0.019	140	0.79	0.022	140	0.94	0.024	200	1.18	0.031	200	1.42	0.034	220	1.57	0.043	220	1.97	0.048	240	2.36	0.070	260	3.15	0.066	260	4.72	0.066	260	6.29	0.066
		3.4365	AlZnMgCu1.5																																													
	Aluminium Druckgusslegierungen	3.2163	GD-AlSi9Cu3	45	0.24	0.007	59	0.31	0.010	74	0.39	0.014	89	0.47	0.017	100	0.63	0.019	140	0.79	0.022	140	0.94	0.024	200	1.18	0.031	200	1.42	0.034	220	1.57	0.043	220	1.97	0.048	240	2.36	0.070	260	3.15	0.066	260	4.72	0.066	260	6.29	0.066
		3.2381	GD-AlSi10Mg																																													
	Kupfer	2.004	Cu-OF / CW008A	45	0.24	0.007	59	0.31	0.010	74	0.39	0.017	89	0.47	0.019	100	0.63	0.022	140	0.79	0.024	140	0.94	0.026	200	1.18	0.031	200	1.42	0.034	220	1.57	0.043	220	1.97	0.048	240	2.36	0.070	260	3.15	0.066	260	4.72	0.066	260	6.29	0.066
		2.0065	Cu-ETP / CW004A																																													
	Messing bleifrei	2.0321	CuZn37 CW508L	45	0.24	0.007	59	0.31	0.010	74	0.39	0.017	89	0.47	0.019	100	0.63	0.022	140	0.79	0.024	140	0.94	0.026	200	1.18	0.031	200	1.42	0.034	220	1.57	0.043	220	1.97	0.048	240	2.36	0.070	260	3.15	0.066	260	4.72	0.066	260	6.29	0.066
		2.036	CuZn40 CW509L																																												
	Messing, Bronze Rm < 400 N/mm²	2.0401	CuZn39Pb3	45	0.24	0.007	59	0.31	0.010	74	0.39	0.017	89	0.47	0.019	100	0.63	0.022	140	0.79	0.024	140	0.94	0.026	200	1.18	0.031	200	1.42	0.034	220	1.57	0.043	220	1.97	0.048	240	2.36	0.070	260	3.15	0.066	260	4.72	0.066	260	6.29	0.066
		2.102	CuSn6																																												
	Bronze Rm < 600 N/mm²	2.0966	CuAl10Ni5Fe4	45	0.24	0.007	59	0.31	0.010	74	0.39	0.014	89	0.47	0.017	100	0.63	0.019	140	0.79	0.022	140	0.94	0.024	200	1.18	0.031	200	1.42	0.034	220	1.57	0.043	220	1.97	0.048	240	2.36	0.070	260	3.15	0.066	260	4.72	0.066	260	6.29	0.066
		2.096	CuAl9Mn2																																												
S_1	Hitzebeständige Stähle	2.4856		45	0.24	0.004	59	0.31	0.005	74	0.39	0.005	89	0.47	0.006	100	0.63	0.007	120	0.79	0.008	120	0.94	0.010	130	1.18	0.011	130	1.42	0.012	140	1.57	0.012	140	1.97	0.014	150	2.36	0.018	170	3.15	0.024	170	4.72	0.024	170	6.29	0.024
		2.4668																																													
		2.4617	NiMo28																																												
		2.4665	NiCr22Fe18Mo																																												
S_2	Titan rein	3.7035	Gr.2	45	0.24	0.005	59	0.31	0.005	74	0.39	0.010	89	0.47	0.011	100	0.63	0.013	120	0.79	0.019	120	0.94	0.022	130	1.18	0.024	130	1.42	0.026	140	1.57	0.034	140	1.97	0.036	150	2.36	0.041	170	3.15	0.050	170	4.72	0.050	170	6.29	0.050
		3.7065	Gr.4																																												
S_2	Titan Legierungen	3.7165	TiAl6V4	45	0.24	0.005	59	0.31	0.005	74	0.39	0.010	89	0.47	0.011	100	0.63	0.013	120	0.79	0.019	120	0.94	0.022	130	1.18	0.024	130	1.42	0.026	140	1.57	0.034	140	1.97	0.036	150	2.36	0.041	170	3.15	0.050	170	4.72	0.050	170	6.29	0.050
		9.9367	TiAl6Nb7																																												
S_3	CrCo-Legierungen	2.4964	CoCr20W15Ni	45	0.24	0.004	59	0.31	0.004	74	0.39	0.006	89	0.47	0.006	100	0.63	0.007	140	0.79	0.008	140	0.94	0.010	180	1.18	0.011	180	1.42	0.012	200	1.57	0.012	200	1.97	0.014	220	2.36	0.018	240	3.15	0.024	240	4.72	0.024	240	6.29	0.024
			CrCoMo28																																												
H_1	Stähle gehärtet < 55 HRC	1.2510	100MnCrMoW4	45	0.24	0.005	59	0.31	0.007	74	0.39	0.008	80	0.47	0.010	80	0.63	0.011	100	0.79	0.012	100	0.94	0.014	140	1.18	0.017	140	1.42	0.022	180	1.57	0.024	180	1.97	0.031	200	2.36	0.036	240	3.15	0.038	240	4.72	0.038	240	6.29	0.038
H_2	Stähle gehärtet ≥ 55 HRC	1.2379	X153CrMoV12																																												

Schlichten



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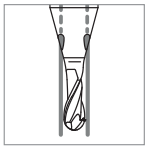

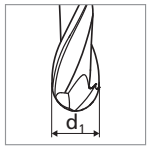

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