FRAISER
CRAZYMILL COOL P&S

NEW Type A - Rainures à clavette - Fraisage plongeant - Cavité

v_c [m/min] a_p [mm]
$f_{z,p}$ [mm] $f_{z,s}$ [mm]

RECOMMANDATION D'UTILISATION
● Parfaitement recommandé | ◐ Recommandé | ○ Peu recommandé | ⊠ Non recommandé

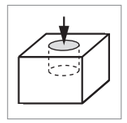
P	N	S_3
M	S_1	H_1
K	S_2	H_2

FRAISAGE AVEC REFROIDISSEMENT INTÉGRÉ | VUE D'ENSEMBLE DES DONNÉES DE COUPE

Fraisage de rainures à clavette

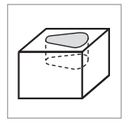
- $f_{z,p}$: pour la plongée
- $f_{z,s}$: pour la rainure

Fraisage plongeant

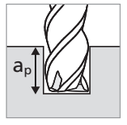


- $f_{z,p}$: pour la plongée

Fraisage de cavités



- $f_{z,p}$: pour la plongée
- $f_{z,s}$: pour la rainure



Groupe matériaux	Matériau	Mat. no.	DIN	AISI/ASTM/UNS	Ød₁ 1.0 mm v_c	$f_{z,p}$	$f_{z,s}$	a_p	1.5 mm 1/16" v_c	$f_{z,p}$	$f_{z,s}$	a_p	2.0 mm 3/32" v_c	$f_{z,p}$	$f_{z,s}$	a_p	3.0 mm 1/8" v_c	$f_{z,p}$	$f_{z,s}$	a_p	4.0 mm 5/32" v_c	$f_{z,p}$	$f_{z,s}$	a_p	5.0 mm 3/16" - 7/32" v_c	$f_{z,p}$	$f_{z,s}$	a_p	6.0 mm - 8.0 mm 1/4" v_c	$f_{z,p}$	$f_{z,s}$	a_p
P	Aciers non alliés Rm < 800 N/mm²	1.0301	C10	AISI 1010	100	0.0013	0.0046	1xd1	120	0.0020	0.0065	1xd1	120	0.0026	0.0091	1xd1	140	0.004	0.013	1xd1	140	0.005	0.020	1xd1	150	0.005	0.026	1xd1	160	0.006	0.033	1xd1
		1.0401	C15	AISI 1015																												
		1.1191	C45E/CK45	AISI 1045																												
		1.0044	S275JR	AISI 1020																												
		1.0715	11SMn30	AISI 1215																												
	Aciers faiblement alliés Rm > 900 N/mm²	1.5752	15NiCr13	ASTM 3415 / AISI 3310	100	0.0014	0.0049	1xd1	120	0.0021	0.0070	1xd1	120	0.0028	0.0098	1xd1	140	0.004	0.014	1xd1	140	0.005	0.021	1xd1	150	0.006	0.027	1xd1	160	0.006	0.034	1xd1
		1.7131	16MnCr5	AISI 5115																												
		1.3505	100Cr6	AISI 52100																												
		1.7225	42CrMo4	AISI 4140																												
		1.2842	90MnCrV8	AISI O2																												
	Aciers à outil fortement alliés Rm < 1200 N/mm²	1.2379	X153CrMoV12	AISI D2	100	0.0012	0.0042	0.5xd1	120	0.0018	0.0060	0.5xd1	120	0.0024	0.0084	0.5xd1	140	0.003	0.012	0.5xd1	140	0.004	0.017	0.5xd1	150	0.004	0.022	0.5xd1	160	0.005	0.028	0.5xd1
		1.2436	X210CrW12	AISI D4/D6																												
		1.3343	HS6-5-2C	AISI M2 / UNS T11302																												
		1.3355	HS18-0-1	AISI T1 / UNS T12001																												
M	Aciers inoxydables ferritiques	1.4016	X6Cr17	AISI 430 / UNS S43000	100	0.0010	0.0035	1xd1	120	0.0015	0.0050	1xd1	120	0.0020	0.0070	1xd1	140	0.003	0.010	1xd1	140	0.004	0.015	1xd1	150	0.004	0.020	1xd1	160	0.005	0.025	1xd1
		1.4105	X6CrMoS17	AISI 430F																												
	Aciers inoxydables martensitiques	1.4034	X46Cr13	AISI 420C	100	0.0010	0.0035	0.5xd1	120	0.0015	0.0050	0.5xd1	120	0.0020	0.0070	0.5xd1	140	0.003	0.010	0.5xd1	140	0.004	0.015	0.5xd1	150	0.004	0.020	0.5xd1	160	0.005	0.025	0.5xd1
		1.4112	X90CrMoV18	AISI 440B																												
	Aciers inoxydables martensitiques - PH	1.4542	X5CrNiCuNb16-4	AISI 630 / ASTM 17-4 PH	100	0.0010	0.0035	0.5xd1	120	0.0015	0.0050	0.5xd1	120	0.0020	0.0070	0.5xd1	140	0.003	0.010	0.5xd1	140	0.004	0.015	0.5xd1	150	0.004	0.020	0.5xd1	160	0.005	0.025	0.5xd1
		1.4545	X5CrNiCuNb15-5	ASTM 15-5 PH																												
	Aciers inoxydables austénitiques	1.4301	X5CrNi18-10	AISI 304	100	0.0010	0.0035	1xd1	120	0.0015	0.0050	1xd1	120	0.0020	0.0070	1xd1	140	0.003	0.010	1xd1	140	0.004	0.015	1xd1	150	0.004	0.020	1xd1	160	0.005	0.025	1xd1
		1.4435	X2CrNiMo18-14-3	AISI 316L																												
		1.4441	X2CrNiMo18-15-3	AISI 316LM																												
		1.4539	X1NiCrMoCu25-20-5	AISI 904L																												
K	Fonte grise	0.6020	GG20	ASTM 30	100	0.0013	0.0042	1xd1	120	0.0019	0.0060	1xd1	120	0.0024	0.0084	1xd1	140	0.004	0.012	1xd1	140	0.004	0.017	1xd1	150	0.005	0.022	1xd1	160	0.005	0.028	1xd1
		0.6030	GG30	ASTM 40B																												
		0.7040	GGG40	ASTM 60-40-18																												
		0.7060	GGG60	ASTM 80-60-03																												
N	Alliages d'aluminium corroyés	3.2315	AlMgSi1	ASTM 6351	100	0.0012	0.0100	1xd1	120	0.0018	0.0160	1xd1	120	0.0024	0.0210	1xd1	150	0.004	0.034	1xd1	160	0.004	0.035	1xd1	170	0.005	0.036	1xd1	180	0.005	0.037	1xd1
		3.4365	AlZnMgCu1.5	ASTM 7075																												
	Fonte d'aluminium	3.2163	GD-AlSi9Cu3	ASTM A380	100	0.0012	0.0100	1xd1	120	0.0018	0.0160	1xd1	120	0.0024	0.0210	1xd1	150	0.004	0.034	1xd1	160	0.004	0.035	1xd1	170	0.005	0.036	1xd1	180	0.005	0.037	1xd1
		3.2381	GD-AlSi10Mg	UNS A03590																												
	Cuivre	2.0040	Cu-OF / CW008A	UNS C10100	100	0.0012	0.0100	1xd1	120	0.0018	0.0160	1xd1	120	0.0024	0.0210	1xd1	150	0.004	0.034	1xd1	160	0.004	0.035	1xd1	170	0.005	0.036	1xd1	180	0.005	0.037	1xd1
		2.0065	Cu-ETP / CW004A	UNS C11000																												
	Laiton sans plomb	2.0321	CuZn37 CW508L	UNS C27400	100	0.0012	0.0100	1xd1	120	0.0018	0.0160	1xd1	120	0.0024	0.0210	1xd1	150	0.004	0.034	1xd1	160	0.004	0.035	1xd1	170	0.005	0.036	1xd1	180	0.005	0.037	1xd1
		2.0360	CuZn40 CW509L	UNS C28000																												
	Laiton, Bronze Rm < 400 N/mm²	2.0401	CuZn39Pb3 / CW614N	UNS C38500	100	0.0012	0.0100	1xd1	120	0.0018	0.0160	1xd1	120	0.0024	0.0210	1xd1	150	0.004	0.034	1xd1	160	0.004	0.035	1xd1	170	0.005	0.036	1xd1	180	0.005	0.037	1xd1
		2.1020	CuSn6	UNS C51900																												
	Bronze Rm < 600 N/mm²	2.0966	CuAl10Ni5Fe4	UNS C63000	100	0.0012	0.0100	1xd1	120	0.0018	0.0160	1xd1	120	0.0024	0.0210	1xd1	150	0.004	0.034	1xd1	160	0.004	0.035	1xd1	170	0.005	0.036	1xd1	180	0.005	0.037	1xd1
		2.0960	CuAl9Mn2	UNS C63200																												
S_1	Superalliages	2.4856		Inconel 625	40	0.0010	0.0035	0.25xd1	40	0.0015	0.0050	0.25xd1	50	0.0020	0.0070	0.25xd1	50	0.003	0.010	0.25xd1	60	0.004	0.014	0.25xd1	80	0.004	0.018	0.25xd1	80	0.005	0.021	0.25xd1
		2.4668		Inconel 718																												
		2.4617	NiMo28	Hastelloy B-2																												
		2.4665	NiCr22Fe18Mo	Hastelloy X																												
S_2	Titane pur	3.7035	Gr.2	ASTM B348 / F67	80	0.0010	0.0032	0.25xd1	90	0.0014	0.0045	0.25xd1	100	0.0018	0.0063	0.25xd1	110	0.003	0.010	0.25xd1	120	0.004	0.013	0.25xd1	120	0.004	0.016	0.25xd1	120	0.005	0.019	0.25xd1
		3.7065	Gr.4	ASTM B348 / F68																												
	Alliages de titane	3.7165	TiAl6V4	ASTM B348 / F136	80	0.0010	0.0032	0.25xd1	90	0.0014	0.0045	0.25xd1	100	0.0018	0.0063	0.25xd1	110	0.003	0.010	0.25xd1	120	0.004	0.013	0.25xd1	120	0.004	0.016	0.25xd1	120	0.005	0.019	0.25xd1
		9.9367	TiAl6Nb7	ASTM F1295																												
S_3	Alliages CrCo	2.4964	CoCr20W15Ni	Haynes 25	60	0.0010	0.0035	0.5xd1	60	0.0015	0.0050	0.5xd1	80	0.0020	0.0070	0.5xd1	80	0.003	0.010	0.5xd1	100	0.004	0.014	0.5xd1	100	0.004	0.018	0.5xd1	120	0.005	0.021	0.5xd1
			CrCoMo28	ASTM F1537																												
H_1	Aciers trempés < 55 HRC	1.2510	100MnCrMoW4	AISI O1																												
H_2	Aciers trempés ≥ 55 HRC	1.2379	X153CrMoV12	AISI D2																												