

2 FLUTE DRILL MILLS - V-GROOVING

Vc = m/min.
fz = mm/tooth
RPM = rev./min.
FEED = mm/min.

ISO	VDI 3323	Material Description	Parameter	Diameter (Ø)								
				3.0	4.0	5.0	6.0	8.0	10.0	12.0	16.0	20.0
P	1-2	Non-alloy steel	Vc	80	85	85	80	80	90	95	100	95
			fz	0.005	0.006	0.008	0.01	0.014	0.016	0.018	0.023	0.029
			RPM	8488	6764	5411	4244	3183	2865	2520	1989	1512
			FEED	85	81	87	85	89	92	91	92	88
	3-4		Vc	55	60	55	55	55	55	55	65	60
			fz	0.004	0.004	0.006	0.007	0.012	0.014	0.02	0.022	0.028
			RPM	5836	4775	3501	2918	2188	1751	1459	1293	955
			FEED	47	38	42	41	53	49	58	57	53
	5		Vc	45	50	50	50	45	55	55	55	55
			fz	0.004	0.004	0.006	0.008	0.014	0.015	0.018	0.023	0.03
			RPM	4775	3979	3183	2653	1790	1751	1459	1094	875
			FEED	38	32	38	42	50	53	53	50	53
	6		Vc	80	85	85	80	80	90	95	100	95
			fz	0.005	0.006	0.008	0.01	0.014	0.016	0.018	0.023	0.029
			RPM	8488	6764	5411	4244	3183	2865	2520	1989	1512
			FEED	85	81	87	85	89	92	91	92	88
	7		Vc	55	60	55	55	55	55	55	65	60
			fz	0.004	0.004	0.006	0.007	0.012	0.014	0.02	0.022	0.028
			RPM	5836	4775	3501	2918	2188	1751	1459	1293	955
			FEED	47	38	42	41	53	49	58	57	53
	8-9		Vc	45	50	50	50	45	55	55	55	55
			fz	0.004	0.004	0.006	0.008	0.014	0.015	0.018	0.023	0.03
			RPM	4775	3979	3183	2653	1790	1751	1459	1094	875
			FEED	38	32	38	42	50	53	53	50	53
	10	Vc	80	85	85	80	80	90	95	100	95	
		fz	0.005	0.006	0.008	0.01	0.014	0.016	0.018	0.023	0.029	
		RPM	8488	6764	5411	4244	3183	2865	2520	1989	1512	
		FEED	85	81	87	85	89	92	91	92	88	
	11.1	Vc	45	50	50	50	45	55	55	55	55	
		fz	0.004	0.004	0.006	0.008	0.014	0.015	0.018	0.023	0.03	
		RPM	4775	3979	3183	2653	1790	1751	1459	1094	875	
		FEED	38	32	38	42	50	53	53	50	53	
M	14.1	Stainless steel	Vc	30	35	40	35	40	45	45	45	40
			fz	0.004	0.005	0.006	0.008	0.01	0.011	0.013	0.019	0.028
			RPM	3183	2785	2546	1857	1592	1432	1194	895	637
			FEED	25	28	31	30	32	32	31	34	36
N	21~22	Aluminum-wrought alloy	Vc	185	210	210	205	205	220	230	230	230
			fz	0.008	0.01	0.013	0.016	0.022	0.026	0.03	0.041	0.052
			RPM	19629	16711	13369	10876	8157	7003	6101	4576	3661
			FEED	314	334	348	348	359	364	366	375	381
	23~25	Aluminum-cast, alloyed	Vc	185	210	210	205	205	220	230	230	230
			fz	0.008	0.01	0.013	0.016	0.022	0.026	0.03	0.041	0.052
			RPM	19629	16711	13369	10876	8157	7003	6101	4576	3661
			FEED	314	334	348	348	359	364	366	375	381
S	36-37	Titanium Alloys	Vc	30	35	40	35	40	45	45	45	40
			fz	0.004	0.005	0.006	0.008	0.01	0.011	0.013	0.019	0.028
			RPM	3183	2785	2546	1857	1592	1432	1194	895	637
			FEED	25	28	31	30	32	32	31	34	36

※ The FEED, in long & extra long types, should be reduced by around 50%

