

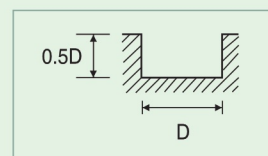
## 2 FLUTE - SLOTTING

ESH570, ESH571 Series

MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS				CARBON STEELS ALLOY STEELS TOOL STEELS				CARBON STEELS ALLOY STEELS TOOL STEELS			
HARDNESS					~ HRc20				HRc20 ~ HRc30			
STRENGTH	~ 500N/mm <sup>2</sup>				500 ~ 800N/mm <sup>2</sup>				800 ~ 1000N/mm <sup>2</sup>			
DIAMETER	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz
2.0	5600	40	35	0.004	4500	30	30	0.003	4000	30	25	0.004
3.0	3500	55	35	0.008	3200	45	30	0.007	2500	40	25	0.008
4.0	2800	70	35	0.013	2200	55	30	0.013	1800	45	25	0.013
5.0	2200	90	35	0.020	1800	70	30	0.019	1600	60	25	0.019
6.0	1800	90	35	0.025	1600	80	30	0.025	1200	60	25	0.025
8.0	1400	100	35	0.036	1100	90	30	0.041	900	70	25	0.039
10.0	1100	100	35	0.045	900	90	30	0.050	800	80	25	0.050
12.0	900	110	35	0.061	800	100	30	0.063	630	80	25	0.063
14.0	800	110	35	0.069	700	90	30	0.064	560	80	25	0.071
16.0	700	110	35	0.079	560	90	30	0.080	450	70	25	0.078
18.0	630	100	35	0.079	500	90	30	0.090	400	70	25	0.088
20.0	560	100	35	0.089	450	90	30	0.100	400	70	25	0.088
22.0	500	100	35	0.100	450	90	30	0.100	350	70	25	0.100
25.0	450	90	35	0.100	400	80	30	0.100	310	60	25	0.097
28.0	400	80	35	0.100	350	70	30	0.100	280	55	25	0.098
30.0	350	70	35	0.100	310	60	30	0.097	250	50	25	0.100
32.0	350	70	35	0.100	280	55	30	0.098	220	45	20	0.102

MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS				ALUMINUM ALUMINUM ALLOYS			
HARDNESS	HRc30 ~ HRc40							
STRENGTH	1000 ~ 1300N/mm <sup>2</sup>							
DIAMETER	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz
2.0	2200	15	15	0.003	12000	160	75	0.007
3.0	1600	20	15	0.006	11000	250	105	0.011
4.0	1100	30	15	0.014	8000	290	100	0.018
5.0	900	35	15	0.019	6300	310	100	0.025
6.0	800	40	15	0.025	5600	310	105	0.028
8.0	560	45	15	0.040	4000	390	100	0.049
10.0	450	45	15	0.050	3100	400	95	0.065
12.0	400	50	15	0.063	2500	380	95	0.076
14.0	350	50	15	0.071	2200	350	95	0.080
16.0	280	45	15	0.080	2000	350	100	0.088
18.0	250	45	15	0.090	1800	350	100	0.097
20.0	220	45	15	0.102	1600	320	100	0.100
22.0	220	45	15	0.102	1400	300	95	0.107
25.0	180	35	15	0.097	1200	280	95	0.117
28.0	160	30	15	0.094	1100	270	95	0.123
30.0	160	30	15	0.094	1100	270	105	0.123
32.0	140	30	15	0.107	1000	240	100	0.120

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



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