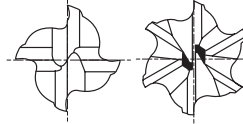


4&6 FLUTE SHORT END MILLS



PREMIUM HSS
DIN 844
4&6
≈ 30°
FLAT
DATA
P.21~22

Unit : mm

EDP No.		Mill Diameter	Shank Diameter	Length of Cut	Overall Length	No. of Flute
Non Coating	TiAIN					
ESH595020	EHC595020	2.0	6	7	51	4
ESH595030	EHC595030	3.0	6	8	52	4
ESH595040	EHC595040	4.0	6	11	55	4
ESH595050	EHC595050	5.0	6	13	57	4
ESH595060	EHC595060	6.0	6	13	57	4
ESH595070	EHC595070	7.0	10	16	66	4
ESH595080	EHC595080	8.0	10	19	69	4
ESH595090	EHC595090	9.0	10	19	69	4
ESH595100	EHC595100	10.0	10	22	72	4
ESH595110	EHC595110	11.0	12	22	79	4
ESH595120	EHC595120	12.0	12	26	83	4
ESH595130	EHC595130	13.0	12	26	83	4
ESH595140	EHC595140	14.0	12	26	83	4
ESH595150	EHC595150	15.0	12	26	83	4
ESH595160	EHC595160	16.0	16	32	92	4
ESH595170	EHC595170	17.0	16	32	92	4
ESH595180	EHC595180	18.0	16	32	92	4
ESH595190	EHC595190	19.0	16	32	92	4
ESH595200	EHC595200	20.0	20	38	104	4
ESH595920	EHC595920	20.0	16	38	98	4
ESH595210	EHC595210	21.0	20	38	104	4
ESH595220	EHC595220	22.0	20	38	104	4
ESH595230	EHC595230	23.0	20	38	104	4
ESH595240	EHC595240	24.0	25	45	121	4
ESH595250	EHC595250	25.0	25	45	121	4
ESH595280	EHC595280	28.0	25	45	121	4
ESH595300	EHC595300	30.0	25	45	121	4
ESH596210	EHC596210	21.0	20	38	104	6
ESH596220	EHC596220	22.0	20	38	104	6
ESH596230	EHC596230	23.0	20	38	104	6
ESH596240	EHC596240	24.0	25	45	121	6
ESH596250	EHC596250	25.0	25	45	121	6
ESH596260	EHC596260	26.0	25	45	121	6
ESH596280	EHC596280	28.0	25	45	121	6
ESH596300	EHC596300	30.0	25	45	121	6
ESH596320	EHC596320	32.0	32	53	133	6

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0 ~ +0.04	h6

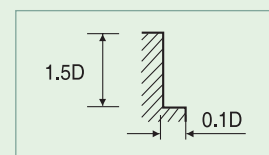
4&6 FLUTE TiAlN COATED - SIDE CUTTING

EHC595, EHC597 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 ²				500 ~ 800N/mm ²				800 ~ 1000N/mm ²			
DIAMETER	RPM	FEED	V _c	f _z	RPM	FEED	V _c	f _z	RPM	FEED	V _c	f _z
2.0	7850	110	50	0.004	6300	75	40	0.003	5600	65	35	0.003
3.0	4900	155		0.008	4500	110	40	0.006	3500	85	35	0.006
4.0	3900	195	50	0.013	3100	140	40	0.011	2500	90	30	0.009
5.0	3100	250	50	0.020	2500	175	40	0.018	2250	125	35	0.014
6.0	2500	250	45	0.025	2250	205	40	0.023	1700	125	30	0.018
8.0	1950	280	50	0.036	1550	225	40	0.036	1250	145	30	0.029
10.0	1550	280	50	0.045	1250	225	40	0.045	1100	170	35	0.039
12.0	1250	310	45	0.062	1100	250	40	0.057	900	170	35	0.047
14.0	1100	310	50	0.070	1000	225	45	0.056	800	170	35	0.053
16.0	1000	310	50	0.078	800	225	40	0.070	650	145	35	0.056
18.0	900	280	50	0.078	700	225	40	0.080	550	145	30	0.066
20.0	800	280	50	0.088	650	225	40	0.087	550	145	35	0.066
22 (4F)	700	280	50	0.100	650	225	45	0.087	500	145	35	0.073
25 (4F)	650	250	50	0.096	550	205	45	0.093	450	125	35	0.069
28 (4F)	550	225	50	0.102	500	175	45	0.088	400	110	35	0.069
30 (4F)	500	195	45	0.098	450	155	40	0.086	350	105	35	0.075
22 (6F)	700	280	50	0.067	650	225	45	0.058	500	145	35	0.048
25 (6F)	650	250	50	0.064	550	205	45	0.062	450	125	35	0.046
28 (6F)	550	225	50	0.068	500	175	45	0.058	400	110	35	0.046
30 (6F)	500	195	45	0.065	450	155	40	0.057	350	105	35	0.050
32.0	500	195	50	0.065	400	140	40	0.058	300	90	30	0.050

MATERIAL	CARBON STEELS ALLOY STEELS TOOL STEELS				ALUMINUM ALUMINUM ALLOYS			
HARDNESS	HRc30 ~ HRc40							
STRENGTH	1000 ~ 1300N/mm ²							
DIAMETER	RPM	FEED	V _c	f _z	RPM	FEED	V _c	f _z
2.0	3100	30	20	0.002	16800	335	105	0.005
3.0	2250	40	20	0.004	15400	530	145	0.009
4.0	1550	65	20	0.010	11200	615	140	0.014
5.0	1250	70	20	0.014	8800	660	140	0.019
6.0	1100	85	20	0.019	7850	660	150	0.021
8.0	800	90	20	0.028	5600	810	140	0.036
10.0	650	90	20	0.035	4350	840	135	0.048
12.0	550	105	20	0.048	3500	800	130	0.057
14.0	500	105	20	0.053	3100	740	135	0.060
16.0	400	90	20	0.056	2800	740	140	0.066
18.0	350	90	20	0.064	2500	740	140	0.074
20.0	300	90	20	0.075	2250	670	140	0.074
22 (4F)	300	90	20	0.075	1950	630	135	0.081
25 (4F)	250	70	20	0.070	1700	590	135	0.087
28 (4F)	200	65	20	0.081	1550	560	135	0.090
30 (4F)	200	65	20	0.081	1550	560	145	0.090
22 (6F)	300	90	20	0.050	1950	630	135	0.054
25 (6F)	250	70	20	0.047	1700	590	135	0.058
28 (6F)	200	65	20	0.054	1550	560	135	0.060
30 (6F)	200	65	20	0.054	1550	560	145	0.060
32.0	200	65	20	0.054	1400	505	140	0.060

RPM = rev./min.
Feed = mm/min.
V_c = m/min.
f_z = mm/tooth



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