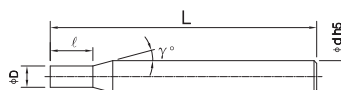


HGXE 2-Flute General Purpose End Mill



∅ D	D Tol. [mm]
D < 3	0 ~ -0.010
3 < D < 6	0 ~ -0.012
6 < D < 10	0 ~ -0.015
10 < D < 18	0 ~ -0.018
D > 18	0 ~ -0.020

Unit : mm

Type No.	Dia.	Length of Cut	Neck Taper Angle	Overall Length	Shank Dia.
	∅D	ℓ	γ/°	L	∅d
HGXE2001 0450	0.1	0.2	12	50	4
HGXE20015 0450	0.15	0.3	12	50	4
HGXE2002 0450	0.2	0.4	12	50	4
HGXE2003 0450	0.3	0.6	12	50	4
HGXE2004 0450	0.4	1.2	12	50	4
HGXE2005 0450	0.5	1.5	12	50	4
HGXE2006 0450	0.6	1.8	12	50	4
HGXE2007 0450	0.7	2.1	12	50	4
HGXE2008 0450	0.8	2.4	12	50	4
HGXE2010 0450	1	3	12	50	4
HGXE2010 0650	1	3	12	50	6
HGXE2012 0450	1.2	3.5	11	50	4
HGXE2014 0450	1.4	4	11	50	4
HGXE2015 0450	1.5	4	11	50	4
HGXE2015 0650	1.5	4	11	50	6
HGXE2016 0450	1.6	5	11	50	4
HGXE2020 0450	2	6	11	50	4
HGXE2020 0650	2	6	11	50	6
HGXE2025 0450	2.5	8	11	50	4
HGXE2025 0650	2.5	8	11	50	6
HGXE2030 0450	3	8	11	50	4
HGXE2030 0650	3	8	11	50	6
HGXE2030 0675	3	12	11	75	6
HGXE2040 0450	4	11	—	50	4
HGXE2040 0650	4	11	11	50	6
HGXE2040 0675	4	15	11	75	6
HGXE2050 0650	5	13	11	50	6
HGXE2050 0675	5	18	11	75	6

HGXE 2-Flute General Purpose End Mill

Unit : mm

Type No.	Dia.	Length of Cut	Neck Taper Angle	Overall Length	Shank Dia.
	φD	ℓ	γ/°	L	φd
HGXE2060 0650	6	16	—	50	6
HGXE2060 0660	6	16	—	60	6
HGXE2060 0675	6	20	—	75	6
HGXE2080 0860	8	20	—	60	8
HGXE2080 0875	8	20	—	75	8
HGXE2080 08100	8	25	—	100	8
HGXE2100 1075	10	25	—	75	10
HGXE2100 10100	10	30	—	100	10
HGXE2120 1275	12	30	—	75	12
HGXE2120 12100	12	35	—	100	12
HGXE2160 16100	16	45	—	100	16
HGXE2200 20100	20	45	—	100	20

TABLE OF RECOMMENDED MILLING MATERIALS

○ Very suitable ○ Suitable

CARBON STEELS	ALLOY STEELS	PREHARDENED STEELS, HARDENED STEELS				STAINLESS STEELS	CAST IRON	COPPER ALLOYS	ALUMINUM ALLOY	GRAPHITE	TITANIUM ALLOY	HEAT RESISTANT ALLOYS	PLASTIC
PREHARDENED STEELS	TOOL STEELS						DUCTILE CAST IRON						
~40HRC		~50HRC	~55HRC	~60HRC	~65HRC	~35HRC	~350HB						
○		○	○			○	○	○	○		○	○	

Cutting Parameter

HGXE 2-Flute General Purpose End Mill Face Milling

Workpiece	Carbon Steels, Alloy Steels (≤35HRC)				Pre-Hardened Steels (35~45HRC)				Hardened Steels (45~55HRC)			
Type No.	n min ⁻¹	Vf mm/min	ap mm	ae mm	n min ⁻¹	Vf mm/min	ap mm	ae mm	n min ⁻¹	Vf mm/min	ap mm	ae mm
HGXE2001 0450	48000	150	0.006	0.06	40000	150	0.005	0.06	32000	120	0.003	0.05
HGXE20015 0450	48000	150	0.006	0.09	40000	180	0.005	0.09	32000	80	0.003	0.05
HGXE2002 0450	36000	240	0.006	0.12	30000	240	0.005	0.12	24000	200	0.003	0.1
HGXE2003 0450	36000	300	0.01	0.2	30000	300	0.01	0.2	24000	300	0.01	0.2
HGXE2004 0450	33880	325	0.03	0.28	30800	300	0.03	0.28	28000	300	0.03	0.28
HGXE2005 0450	30250	363	0.03	0.3	27500	330	0.03	0.3	25000	300	0.03	0.3
HGXE2006 0450	26620	425	0.04	0.42	24200	385	0.04	0.42	22000	350	0.04	0.42
HGXE2007 0450	25000	450	0.04	0.49	23200	420	0.04	0.49	21000	380	0.04	0.49
HGXE2008 0450	24200	484	0.04	0.56	22000	440	0.04	0.56	20000	400	0.04	0.56
HGXE2010 0450	21780	605	0.05	0.7	19800	550	0.05	0.7	18000	500	0.05	0.7
HGXE2012 0450	21080	650	0.05	0.84	11900	550	0.05	0.84	17000	500	0.05	0.84
HGXE2014 0450	19580	695	0.05	0.91	17500	600	0.05	0.91	16000	550	0.05	0.91
HGXE2015 0450	18150	726	0.05	1.05	16500	660	0.05	1.05	15000	600	0.05	1.05
HGXE2016 0450	16620	800	0.05	1.12	14500	750	0.05	1.12	13500	650	0.05	1.12
HGXE2020 0450	15125	900	0.1	1.5	13750	825	0.1	1.5	12500	750	0.05	1.5
HGXE2025 0450	12100	1210	0.1	1.75	11000	1100	0.1	1.75	10000	1000	0.05	1.75
HGXE2030 0450	9680	1210	0.1	2.1	8800	1100	0.1	2.1	8000	1000	0.05	2.1
HGXE2040 0450	7865	1210	0.1	2.8	7150	1100	0.1	2.8	6500	1100	0.05	2.8
HGXE2050 0650	7260	1210	0.1	3.5	6600	1100	0.1	3.5	6000	1000	0.1	3.5
HGXE2060 0650	6050	726	0.1	4.2	5500	660	0.1	4.2	5000	600	0.1	4.2
HGXE2080 0860	5445	726	0.2	5.6	4950	660	0.1	5.6	4500	600	0.1	5.6
HGXE2100 1075	4840	605	0.2	7	4400	550	0.2	7	4000	500	0.1	7
HGXE2120 1275	4235	605	0.2	8.4	3850	550	0.2	8.4	3500	500	0.1	8.4
HGXE2140 1475	3630	605	0.2	9.6	3300	550	0.2	9.6	3000	500	0.1	9.6
HGXE2160 16100	3388	605	0.2	11.2	3080	550	0.2	11.2	2800	500	0.1	11.2
HGXE2200 20100	3025	605	0.2	14	2750	550	0.2	14	2500	500	0.1	14

● This item can be used for side milling and slotting applicaitons