

CX500 4 枚刃高硬度用ラジアスエンドミル

CX500 Series 3-Flute Radius End Mill for Hard Material

CX500-HFR4

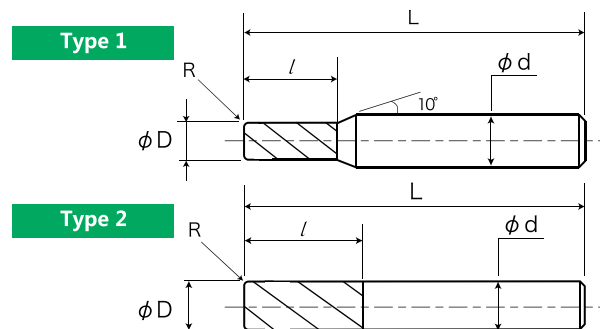


CX500-HFR4100

Model Flute D

特性 Features

- CX500-Coating is new epoch-making coating developed for super-long tool life, High-speed processing and dry cutting due to the high acid resistance and hardening if compared with other conventional and popular coating which is existing in the market.
- Combination of negative radius blade and 45 degree helix blades enables high rigidity and sharpness by high feed speed, with high efficiency
- 3Flute eliminates chattering and suitable for drilling processing
- Universal applications for engraving, side milling, radius milling, rough milling and semi-finishing.



MG
超微粒

45°

Radius

CX500
Coat

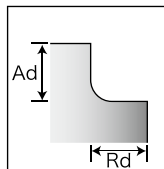
外径公差 Tolerance	
0	
-0.02	

炭素鋼 Carbon Steel	合金鋼 Alloy Steel	調質鋼 Prehardened Steel	焼き入れ鋼 Hardened Steel				鋳鉄 Cast Iron	ステンレス鋼 Stainless Steels	アルミ合金 Aluminium Alloys	銅合金 Copper Alloys	チタン合金 耐熱合金 Ti/Ni Alloy	グラファイト Graphite	樹脂 Resin
			~45HRC	~55HRC	~60HRC	~65HRC							
◎	◎	◎	◎	◎	◎	○	◎	○					

◎ = Best ○ = Good

MODEL 型番	D 外径	R	l 刃長	L 全長	d シャンク径	Type
CX500-HFR4020	2	0.5	4	50	4	1
CX500-HFR4020-6	2	0.5	4	50	6	1
CX500-HFR4030	3	0.8	6	50	4	1
CX500-HFR4030-6	3	0.8	6	50	6	1
CX500-HFR4040	4	1	8	50	6	1
CX500-HFR4050	5	1.2	10	70	6	1
CX500-HFR4060	6	1.5	12	70	6	2
CX500-HFR4080	8	2	16	80	8	2
CX500-HFR4100	10	2	20	90	10	2
CX500-HFR4120	12	2	24	100	12	2
CX500-HFR4160	16	3	32	120	16	2
CX500-HFR4200	20	3	40	130	20	2

推奨切削条件 Standard Milling Condition



- The table show standard milling guidance of perforating process as written picture
- Use a rigid and precise machine and tool holder
- Select a cutting fluid appropriate to the particular usage
- In case the Rotation could not be increased by the machine used, Please reduce feed speed and Rotation speed at same ration
- When mounting End Mills, The run out of the till will have to be set within 0.01mm

被削材 Work Material	炭素鋼 carbon steel (40~55HRC)				合金工具鋼 tool steel (SKD,SUS,SCM)				調質鋼 (35~40HRC) (HPM,NAK)				高硬度鋼 hardened steel (40~60RHC)			
	送り速度 (mm/min) Feed rate		回転数 (mm ⁻¹) Rotation		送り速度 (mm/min) Feed rate		回転数 (mm ⁻¹) Rotation		送り速度 (mm/min) Feed rate		回転数 (mm ⁻¹) Rotation		送り速度 (mm/min) Feed rate		回転数 (mm ⁻¹) Rotation	
	Standard	High Speed	Standard	High Speed	Standard	High Speed	Standard	High Speed	Standard	High Speed	Standard	High Speed	Standard	High Speed	Standard	High Speed
2xR0.5	5060	8400	11500	19100	4280	6880	10700	17200	3040	4930	9500	15400	700	1600	4800	10400
3xR0.8	5780	9650	7600	12700	4830	7820	7100	11500	3580	5770	6400	10300	800	1800	3200	6900
4xR1.0	6160	10260	5700	9500	5090	8260	5300	8600	3650	5850	4800	7700	900	1900	2400	5200
5xR1.2	6070	10030	4600	7600	5160	8260	4300	6900	3650	5950	3800	6200	900	1900	1900	4100
6xR1.2	6380	10750	3800	6400	5470	8660	3600	5700	3840	6120	3200	5100	900	2000	1600	3500
8xR2.0	6500	10750	2900	4800	5510	8770	2700	4300	3840	6240	2400	3900	900	2000	1200	2600
10xR2.0	6440	10640	2300	3800	5380	8700	2100	3400	3800	6200	1900	3100	1000	2000	1000	2100
12xR2.0	6080	10240	1900	3200	5260	8470	1800	2900	3650	5930	1600	2600	900	1900	800	1700
16xR3.0	5040	8640	1400	2400	4260	6890	1300	2100	3070	4860	1200	1900	700	1600	600	1300
20xR3.0	4000	6920	1100	1900	3650	5640	1100	1700	2600	3900	1000	1500	600	1200	500	1000
Ad	≤0.08D															
	≤0.06D															
Rd	≤0.2D															

ラジアス Radius

スクエア Square

ラジアス Radius

ボール Ball

ロングネック Long Neck

ラフィング Rounding

面取り加工用 Chamfering

ドリル Drill