

# CX500 3 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-HFR3

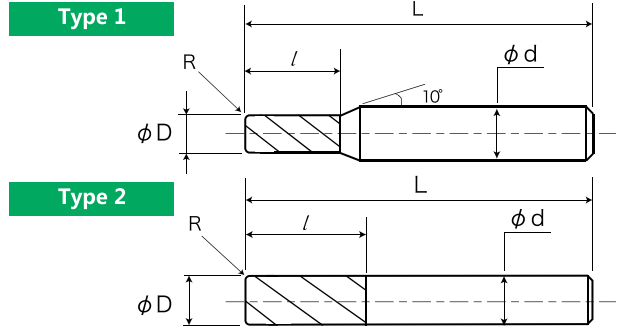


**CX500-HFR3100**

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

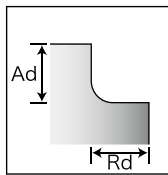
外径公差 Tolerance	
0	
-0.02	

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-HFR3020	2	0.5	4	50	4	1
CX500-HFR3030	3	0.8	6	50	4	1
CX500-HFR3040	4	1	8	50	6	1
CX500-HFR3050	5	1.2	10	70	6	1
CX500-HFR3060	6	1.5	12	70	6	2
CX500-HFR3080	8	2	16	80	8	2
CX500-HFR3100	10	2	20	90	10	2
CX500-HFR3120	12	2	24	100	12	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 revolution could not be increased by the machine used, Please reduce feed speed and revolution 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 (40~60HRC)			
	送り速度 (mm/min) Feed rate		回転数 (mm <sup>-1</sup> ) Revolution		送り速度 (mm/min) Feed rate		回転数 (mm <sup>-1</sup> ) Revolution		送り速度 (mm/min) Feed rate		回転数 (mm <sup>-1</sup> ) Revolution		送り速度 (mm/min) Feed rate		回転数 (mm <sup>-1</sup> ) Revolution	
	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	3795	6300	11500	19100	3210	5160	10700	17200	2280	3697	9500	15400	525	1200	4800	10400
3xR0.8	4335	7238	7600	12700	3622	5865	7100	11500	2685	4327	6400	10300	600	1350	3200	6900
4xR1.0	4620	7695	5700	9500	3817	6195	5300	8600	2737	4387	4800	7700	675	1425	2400	5200
5xR1.2	4552	7523	4600	7600	3870	6210	4300	6900	2737	4462	3800	6200	675	1425	1900	4100
6xR1.2	4785	8063	3800	6400	4102	6495	3600	5700	2880	4590	3200	5100	675	1500	1600	3500
8xR2.0	4875	8063	2900	4800	4132	6577	2700	4300	2880	4680	2400	3900	675	1500	1200	2600
10xR2.0	4830	7980	2300	3800	4035	6525	2100	3400	2850	4650	1900	3100	750	1500	1000	2100
12xR2.0	4560	7680	1900	3200	3945	6352	1800	2900	2737	4447	1600	2600	675	1425	800	1700
16xR3.0	3780	6480	1400	2400	3195	5167	1300	2100	2302	3645	1200	1900	525	1200	600	1300
20xR3.0	3000	5190	1100	1900	2737	4230	1100	1700	1950	2925	1000	1500	450	900	500	1000
Ad	Standard												≤0.08D			
	High Speed												≤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

ラフニング Roughing

面取り加工用 Chamfering

ドリル Drill