

# CX200 2枚刃ボールエンドミル

CX200 Series 2-Flute Ball Nose End Mill

## CX200-BE2

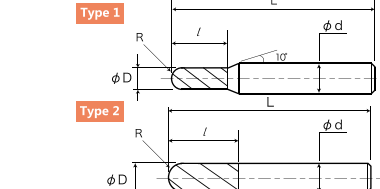


**CX200-BE2060S**

Model Flute R

### 特性 Features

- A highly rigid long necked, short tooth endmill.
- The optimum tool for alloy steel, S45C/SCM440, NAK to HRC45
- Recommend oil or water soluble coolant for copper milling.
- Employs TiAlN Coating and is applicable for high speed and high feed operations



R 値 Radius	R 精度 Accuracy
0.5~2	+0.005 -0.003
3~6	+0.005 -0.002
8~10	+0.010 -0.008



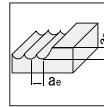
炭素鋼 Carbon Steel	合金鋼 Alloy Steel	調質鋼 Prehardened Steel	焼き入れ鋼 Hardened Steel				鋳鉄 Cast Iron	ステンレス鋼 Stainless Steels	アルミ合金 Aluminum Alloys	銅合金 Copper Alloys	チタン合金 耐熱合金 Ti/Ni Alloy	グラファイト Graphite	樹脂 Resin
			~45HRC	~55HRC	~60HRC	~65HRC							
◎	◎	◎	◎	○			○	○	○				

◎=Best ○=Good

MODEL 型番	R	/ 刃長	L 全長	d 柄径	Type
CX200-BE2005S	0.5	2.5	50	4	1
CX200-BE20075S	0.75	4	50	4	1
CX200-BE2010S	1	4	50	4	1
CX200-BE2015S	1.5	6	60	4	1
CX200-BE2020S	2	8	60	4	1
CX200-BE2025S	2.5	10	80	6	1
CX200-BE2030S	3	12	80	6	2
CX200-BE2040S	4	14	90	8	2
CX200-BE2050S	5	18	100	10	2
CX200-BE2060S	6	22	100	12	2
CX200-BE2080S	8	30	100	16	2
CX200-BE2100S	10	38	105	20	2

# CX200-BE2

### 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	合金鋼 工具鋼 Alloy steel/Tool steel SCM SKD,ARK1 (25~35HRC)				プレハードン鋼 焼き入れ鋼 Pre-Harden Steel, Hardened Steel CENAI, NAK80 SKD (35~45HRC)				鋼鉄, 炭素鋼, 合金鋼, 工具鋼 Cast Iron, Carbon Steel, Alloy Steel, Tool Steel FC250, S45C, S50C, SCM440, S50CM, SKD (~35HRC)			
	High Speed		Standard		High Speed		Standard		High Speed		Standard	
	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	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
R 0.5	47700	3820	47700	2390	50000	4000	50000	4000				
R 1	23900	2870	23900	1910	47700	5720	31800	3800				
R 2	11900	2390	11900	1670	23900	4780	15900	3200				
R 3	7960	2230	7960	1430	15900	4450	10600	2970				
R 4	5970	1910	5970	1310	11900	3810	7960	2550				
R 5	4770	1720	4770	1240	9550	3440	6370	2290				
R 6	3980	1590	3980	1190	7960	3180	5310	2120				
R 8	2980	1340	2980	1010	5970	2690	3980	1790				
R 10	2390	1070	2390	810	4770	2150	3180	1430				

粗加工 (ap=0.1Dc, ae=0.3Dc) Roughing (ap=0.1Dc, ae=0.3Dc) 精加工 (ap=0.05Dc, ap=0.05Dc) Finishing (ap=0.05Dc, ap=0.05Dc)

被削材 Work Material	プレハードン鋼 Pre-Harden Steel HPM1, NAK55 (35~45HRC)				焼き入れ鋼 Hardened Steel SKD61, SKT4 (45~55HRC)			
	High Speed		Standard		High Speed		Standard	
	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	送り速度 (mm/min) Feed rate
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R 2	11900	2390	11900	1670	23900	4780	15900	3200
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R 8	2980	1340	2980	1010	5970	2690	3980	1790
R 10	2390	1070	2390	810	4770	2150	3180	1430

精加工 (ap=0.05Dc, ap=0.05Dc) Finishing (ap=0.05Dc, ap=0.05Dc)

ボール  
Ball

スクエア  
Square

レイダス  
Radius

ボール  
Ball

ロングネック  
Long Neck

ラフヤング  
Roughing

面取り加工  
Chamfering

ドリル  
Drill

ボール  
Ball

スクエア  
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