

Reamers

Endmills

Drills

Countersinks/  
Counterbores

Metal  
Slitting Saws

Cutters

Straight

Helical

POWERFUL  
REAMER

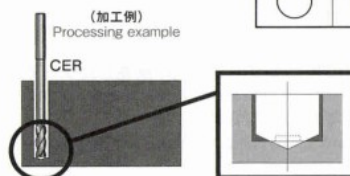
End Cutting

Hard

# CER CERM CERF CERFM

超硬エンド刃付リーマ  
Solid Carbide End Cutting Reamers

- 0.1mmとび、0.01mmとび  
0.1 steps and 0.01 steps
- コーティング品も標準化  
The coating items is standardized.
- 完全止まり穴用  
For blind holes



製品略号 Product code	ネジレ角 Helix Angle	刃径公差 Dia. Tolerance	表面処理 Surface Treatment	切削条件 Cutting Conditions
<b>CER</b>	<b>30° R</b>	m5		<b>P188</b>
<b>CERM</b>		+0.005 0		
<b>CERF</b>		m5	<b>OK-F TOUGH</b>	<b>P187</b>
<b>CERFM</b>		+0.005 0		

下穴の状態 Prepared Hole			
貫通穴 Through	深穴 Deep	止まり穴 Stop	楕円 Ellipse

(0.1mm 0.01mm とび 0.1steps and 0.01steps)

寸法 Size								ノンコート Non-Coat		OKタフコート OK-TOUGH Coat	
刃径 D	刃長 l <sub>1</sub>	首下長 l <sub>2</sub>	全長 L	柄径 d	噴付長 a	内径 d <sub>1</sub>	刃数 NT	品番 Product No.	標準価格 Standard price ¥	品番 Product No.	標準価格 Standard price ¥
2.95~2.99	20	35	60	3	0.2	φ1.0	4	CERM0295~0299	<b>12,500</b>	CERFM0295~0299	<b>16,300</b>
3.0	20	35	60	3	0.2	φ1.0	4	CER-030	<b>9,800</b>	CERF030	<b>12,800</b>
3.00~3.05	20	35	60	3	0.2	φ1.0	4	CERM0300~0305	<b>12,500</b>	CERFM0300~0305	<b>16,300</b>
3.1~3.9	20	35	60	4	0.2	φ1.5	4	CER-031~039	<b>12,300</b>	—	—
3.95~3.99	20	35	60	4	0.2	φ1.5	4	CERM0395~0399	<b>13,400</b>	CERFM0395~0399	<b>17,500</b>
4.0	20	35	60	4	0.2	φ1.5	4	CER-040	<b>11,000</b>	CERF040	<b>14,300</b>
4.00~4.05	20	35	60	4	0.2	φ1.5	4	CERM0400~0405	<b>13,400</b>	CERFM0400~0405	<b>17,500</b>
4.1~4.9	26	45	75	5	0.2	φ2.5	4	CER-041~049	<b>14,200</b>	—	—
4.95~4.99	26	45	75	5	0.2	φ2.5	4	CERM0495~0499	<b>15,100</b>	CERFM0495~0499	<b>19,700</b>
5.0	26	45	75	5	0.2	φ2.5	4	CER-050	<b>13,000</b>	CERF050	<b>16,900</b>
5.00~5.05	26	45	75	5	0.2	φ2.5	4	CERM0500~0505	<b>15,100</b>	CERFM0500~0505	<b>19,700</b>
5.1~5.9	26	65	100	6	0.2	φ3.0	4	CER-051~059	<b>16,300</b>	—	—
5.95~5.99	26	65	100	6	0.2	φ3.0	4	CERM0595~0599	<b>17,900</b>	CERFM0595~0599	<b>23,300</b>
6.0	26	65	100	6	0.2	φ3.0	4	CER-060	<b>14,100</b>	CERF060	<b>18,400</b>
6.00~6.05	26	65	100	6	0.2	φ3.0	4	CERM0600~0605	<b>17,900</b>	CERFM0600~0605	<b>23,300</b>
6.1~6.9	26	70	110	8	0.3	φ3.5	4	CER-061~069	<b>18,100</b>	—	—
6.95~6.99	26	70	110	8	0.3	φ3.5	4	CERM0695~0699	<b>19,300</b>	CERFM0695~0699	<b>25,100</b>
7.0	26	70	110	8	0.3	φ3.5	4	CER-070	<b>17,500</b>	CERF070	<b>22,800</b>
7.00~7.05	26	70	110	8	0.3	φ3.5	4	CERM0700~0705	<b>19,300</b>	CERFM0700~0705	<b>25,100</b>
7.1~7.9	26	85	125	8	0.3	φ4.0	4	CER-071~079	<b>22,000</b>	—	—
7.95~7.99	26	85	125	8	0.3	φ4.0	4	CERM0795~0799	<b>24,000</b>	CERFM0795~0799	<b>31,200</b>
8.0	26	85	125	8	0.3	φ4.0	4	CER-080	<b>17,500</b>	CERF080	<b>22,800</b>
8.00~8.05	26	85	125	8	0.3	φ4.0	4	CERM0800~0805	<b>24,000</b>	CERFM0800~0805	<b>31,200</b>
8.1~8.9	26	90	135	10	0.3	φ4.5	4	CER-081~089	<b>24,800</b>	—	—
8.95~8.99	26	90	135	10	0.3	φ4.5	4	CERM0895~0899	<b>27,000</b>	CERFM0895~0899	<b>35,100</b>
9.0	26	90	135	10	0.3	φ4.5	4	CER-090	<b>21,300</b>	CERF090	<b>27,700</b>
9.00~9.05	26	90	135	10	0.3	φ4.5	4	CERM0900~0905	<b>27,000</b>	CERFM0900~0905	<b>35,100</b>
9.1~9.9	31	100	150	10	0.3	φ5.0	4	CER-091~099	<b>28,100</b>	—	—
9.95~9.99	31	100	150	10	0.3	φ5.0	4	CERM0995~0999	<b>28,100</b>	CERFM0995~0999	<b>36,600</b>
10.0	31	100	150	10	0.3	φ5.0	4	CER-100	<b>25,800</b>	CERF100	<b>33,600</b>
10.00~10.05	31	100	150	10	0.3	φ5.0	4	CERM1000~1005	<b>28,100</b>	CERFM1000~1005	<b>36,600</b>
10.1~10.9	31	105	160	12	0.3	φ5.0	4	CER-101~109	<b>38,700</b>	—	—
10.95~10.99	31	105	160	12	0.3	φ5.0	4	CERM1095~1099	<b>39,300</b>	CERFM1095~1099	<b>51,100</b>
11.0	31	105	160	12	0.3	φ5.0	4	CER-110	<b>35,200</b>	CERF110	<b>45,800</b>
11.00~11.05	31	105	160	12	0.3	φ5.0	4	CERM1100~1105	<b>39,300</b>	CERFM1100~1105	<b>51,100</b>
11.1~11.9	31	105	160	12	0.3	φ6.0	4	CER-111~119	<b>39,400</b>	—	—
11.95~11.99	31	105	160	12	0.3	φ6.0	4	CERM1195~1199	<b>40,000</b>	CERFM1195~1199	<b>52,000</b>
12.0	31	105	160	12	0.3	φ6.0	4	CER-120	<b>36,100</b>	CERF120	<b>47,000</b>
12.00~12.05	31	105	160	12	0.3	φ6.0	4	CERM1200~1205	<b>40,000</b>	CERFM1200~1205	<b>52,000</b>