

Reamers

Endmills

Drills

Countersinks/
Counterbores

Metal
Slitting Saws

Cutters

Straight

Helical

POWERFUL
REAMER

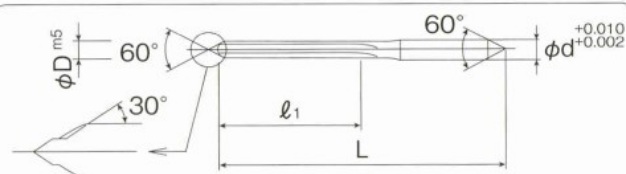
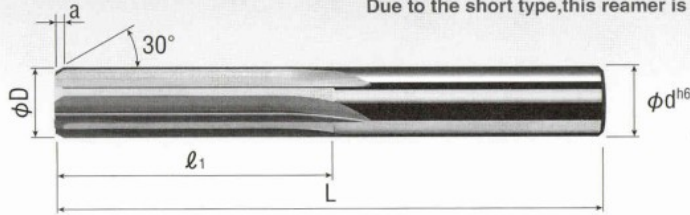
End Cutting

Hard

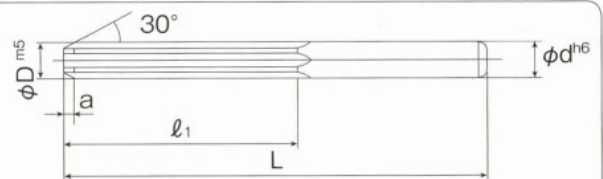
CSR CSR-F

超硬ショートリーマ
Solid Short Carbide Reamers

- 最も汎用的な超硬リーマ
The general purpose carbide reamer.
- 振れの少ないショートタイプ
Due to the short type, this reamer is few runout.



TYPE A: φ1.0~φ2.9



TYPE B: φ3.0~φ20.0

製品略号 Product code	ネジレ角 Helix Angle	表面処理 Surface Treatment	切削条件 Cutting Conditions
CSR	直刃 Straight	OK-F TOUGH	P187
CSR-F			

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

(0.1mm トビ / steps)

寸法 Size						ノンコート non-coat		OKタフコート OK-TOUGH coat		形状 Type
刃径 D	刃長 l ₁	全長 L	柄径 d	喰付長 a	刃数 NT	品番 Product No.	標準価格 Standard price ¥	品番 Product No.	標準価格 Standard price ¥	
1.0	12	50	1	0.3	4	CSR-010	3,000	—	—	A
1.1~1.5	15	50	1.5	0.3	4	CSR-011~015	3,000	—	—	
1.6~1.9	18	50	2	0.3	4	CSR-016~019	2,900	—	—	
2.0	18	50	2	0.3	4	CSR-020	2,900	—	—	
2.1~2.5	20	50	2.5	0.3	4	CSR-021~025	3,200	—	—	
2.6~2.9	20	50	3	0.3	4	CSR-026~029	3,600	—	—	
3.0	27	60	3	0.5	4	CSR-030	3,600	CSR-F030	4,400	B
3.1~3.5	27	60	3.5	0.5	4	CSR-031~035	4,100	CSR-F031~035	5,000	
3.6~3.9	27	60	4	0.5	4	CSR-036~039	4,200	CSR-F036~039	5,100	
4.0	27	60	4	0.5	4	CSR-040	4,200	CSR-F040	5,100	
4.1~4.5	30	70	4.5	0.5	6	CSR-041~045	4,700	CSR-F041~045	5,700	
4.6~4.9	30	70	5	0.5	6	CSR-046~049	5,100	CSR-F046~049	6,200	
5.0	30	70	5	0.5	6	CSR-050	5,100	CSR-F050	6,200	
5.1~5.5	30	80	5.5	0.8	6	CSR-051~055	5,800	CSR-F051~055	7,000	
5.6~5.9	30	80	6	0.8	6	CSR-056~059	6,100	CSR-F056~059	7,400	
6.0	30	80	6	0.8	6	CSR-060	6,100	CSR-F060	7,400	
6.1~6.5	35	80	7	0.8	6	CSR-061~065	7,200	CSR-F061~065	8,700	
6.6~6.9	35	80	7	0.8	6	CSR-066~069	8,700	CSR-F066~069	10,500	
7.0	35	80	7	0.8	6	CSR-070	8,700	CSR-F070	10,500	
7.1~7.5	35	80	8	0.8	6	CSR-071~075	9,900	CSR-F071~075	11,900	
7.6~7.9	35	80	8	0.8	6	CSR-076~079	11,300	CSR-F076~079	13,600	
8.0	35	80	8	0.8	6	CSR-080	11,300	CSR-F080	13,600	
8.1~8.5	40	90	9	1.2	6	CSR-081~085	12,900	CSR-F081~085	15,500	
8.6~8.9	40	90	9	1.2	6	CSR-086~089	14,700	CSR-F086~089	17,700	
9.0	40	90	9	1.2	6	CSR-090	14,700	CSR-F090	17,700	
9.1~9.5	40	90	10	1.2	6	CSR-091~095	16,000	CSR-F091~095	19,200	
9.6~9.9	40	90	10	1.2	6	CSR-096~099	17,900	CSR-F096~099	21,500	
10.0	40	90	10	1.2	6	CSR-100	17,900	CSR-F100	21,500	
10.1~10.9	40	90	11	1.2	6	CSR-101~109	20,900	CSR-F101~109	25,100	
11.0	40	90	11	1.2	6	CSR-110	20,900	CSR-F110	25,100	
11.1~11.9	45	90	12	1.5	6	CSR-111~119	24,400	CSR-F111~119	29,300	
12.0	45	90	12	1.5	6	CSR-120	24,400	CSR-F120	29,300	