CBN END MILLS

PLAIN SHANK **ESD02** SERIES

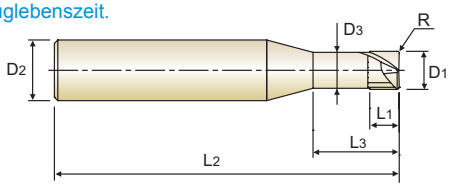
CBN, 2 FLUTE CORNER RADIUS

CBN, 2 SCHNEIDEN ECKENRADIUS
CBN, fraise 2 dents, torique
CBN, 2 TAGLIENTI, TORICA

- ▶Achieves stable machining and higher accuracy for duration.
- ▶Saves setting time and cost from the reduction of frequent tool change.
- ▶Improves repeatability in performance.
- ▶Special designed geometry improving tool rigidity at High Speed Cutting.
- ▶Tighter Radius Tolerance of ±0.005mm and higher accuracy with longer tool life.

- ▶ Sichert dauerhaft stabile Bearbeitung und höhere Genauigkeit.
- ▶ Spart Rüstzeit und -kosten durch weniger Werkzeugwechsel.
- ▶ Verbessert die Wiederholgenauigkeit.
- ▶ Eine besondere Werkzeuggeometrie verbessert die Steifigkeit bei HSC-Bearbeitung.
- ▶ Engere Radiustoleranz ±0.005, höhere Genauigkeit und längere Werkzeuglebenszeit.





CBN | 2 | 0° | R ±0.005 | PLAIN | UNCOATED

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Recommended ToolHolder
Plain Shank
HYDRAULIC CHUCK SHRINK FIT HOLDER
POWER MILLING CHUCK
ER COLLET CHUCK SK SLIM CHUCK

Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R (±0.005)	D1	D2	L1	L3	L2	D3
ESD02005052	R0.05	**0.5**	4	0.3	2	50	0.46
ESD02005053	R0.05	**0.5**	4	0.3	3	50	0.46
ESD02010053	R0.05	**1.0**	4	0.7	3	50	0.95
ESD02010055	R0.05	**1.0**	4	0.7	5	50	0.95
ESD02010103	R0.1	**1.0**	4	0.7	3	50	0.95
ESD02010105	R0.1	**1.0**	4	0.7	5	50	0.95
ESD02015105	R0.1	**1.5**	4	1.0	5	50	1.45
ESD02015108	R0.1	**1.5**	4	1.0	8	50	1.45
ESD02015205	R0.2	**1.5**	4	1.0	5	50	1.45
ESD02015208	R0.2	**1.5**	4	1.0	8	50	1.45
ESD02020106	R0.1	**2.0**	4	1.2	6	50	1.95
ESD02020100	R0.1	**2.0**	4	1.2	10	50	1.95
ESD02020206	R0.2	**2.0**	4	1.2	6	50	1.95
ESD02020200	R0.2	**2.0**	4	1.2	10	50	1.95

Corner Radius(mm)	Shank Dia. Tolerance
± 0.005	h5

◎ : Excellent ○ : Good

ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommend																				

ISO	N										S							H			
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommend																		◎	◎		◎

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