D-POWER GRAPHITE END MILLS

PLAIN SHANK **EI451 SERIES**

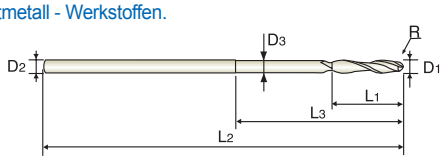
CARBIDE, 2 FLUTE BALL NOSE LONG LENGTH with NECK

VOLLHARTMETALL, 2 SCHNEIDEN STIRNRADIUS LANG MIT ABGESETZTEM SCHAFTTETL
FRAISE CARBURE, 2 DENTS, HÉMISPHÉRIQUE, DÉTALONNÉE, LONGUE
2 TAGLIENTI, SEMISFERICA, SERIE LUNGA

- Higher hardness of film and excellent wear-resistance increase the tool life surprisingly.
- Ultra fine film of YG-1's diamond coated carbide ball end mills ensure the smooth and excellent surface on work materials.
- High performance on graphite, wrought aluminum, bakelite, plastics, wood, brass etc. YG-1's diamond coated carbide ball end mills have good result for the machining of non-ferrous metals and non-metallic materials.

- Höhere Härte der Beschichtung und ausgezeichnete Verschleißfestigkeit verlängern die Standzeit beachtlich.
- Ultrafeiner Film auf YG-1 Diamant - beschichteten Hartmetall Schaftfräser gewährleisten eine glatte und ausgezeichnete Oberflächengüte.
- Hohe Leistungsfähigkeit bei Graphit, Aluminium ohne Silicon, Bakelit, Plastik, Holz, Messing, etc. YG-1 Diamant - beschichtete Hartmetall Schaftfräser zeigen gute Ergebnisse beim Bearbeiten von NE - Metallen und Nichtmetall - Werkstoffen.





CARBIDE | 2 | 30° | R ±0.01 | PLAIN | Diamond

p.C559

Recommended ToolHolder

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

Unit : mm

EDP No.	Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R (±0.01)	D_1	D_2	L_1	L_3	L_2	D_3
EI451020	R1.0	**2.0**	4	10	20	80	1.95
EI451030	R1.5	**3.0**	4	15	25	80	2.9
EI451040	R2.0	**4.0**	4	20	30	80	3.9
EI451050	R2.5	**5.0**	6	30	50	100	4.9
EI451060	R3.0	**6.0**	6	30	50	100	5.5
EI451070	R3.5	**7.0**	6	30	-	100	-
EI451080	R4.0	**8.0**	8	40	60	110	7.5
EI451090	R4.5	**9.0**	8	40	-	110	-
EI451100	R5.0	**10.0**	10	50	70	120	9.5
EI451120	R6.0	**12.0**	12	55	75	130	11.5

Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
0 ~ - 0.03	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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