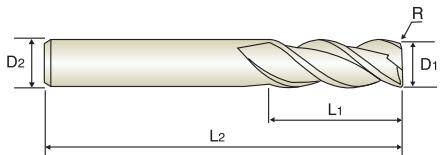
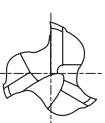



**D-POWER GRAPHITE  
END MILLS**
**EIA13** SERIES

**PLAIN SHANK  
GLATTER ZYLINDERSCHAFT**
**CARBIDE, 3 FLUTE 40° HELIX SHORT LENGTH CORNER RADIUS  
VOLLHARTMETALL, 3 SCHNEIDEN 40° RECHTSSPIRALE KURZ ECKENRADIUS**

- Higher hardness of film and excellent wear-resistance increase the tool life surprisingly.
- Ultra fine film of YG-1's diamond coated carbide 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 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 Schafträser gewährleisten eine glatte und ausgezeichnete Oberflächengüte.
- Hohe Leistungsfähigkeit bei Graphit, Aluminium ohne Silicon, Bakelit, Plastik, Holz, Messing, etc. YG-1 Diamant - beschichtete Hartmetall Schafträser zeigen gute Ergebnisse beim Bearbeiten von NE - Metallen und Nichtmetall - Werkstoffen.

MG  
HM

3

40°

PLAIN



P.1016

Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	R	D1	D2	L1	L2
<b>EIA13020</b>	RO.15	<b>2.0</b>	3	6	40
<b>EIA13030</b>	RO.15	<b>3.0</b>	3	12	40
<b>EIA13040</b>	RO.2	<b>4.0</b>	4	14	50
<b>EIA13050</b>	RO.3	<b>5.0</b>	5	16	50
<b>EIA13060</b>	RO.3	<b>6.0</b>	6	20	65
<b>EIA13080</b>	RO.5	<b>8.0</b>	8	20	65
<b>EIA13100</b>	RO.5	<b>10.0</b>	10	25	75
<b>EIA13120</b>	RO.5	<b>12.0</b>	12	25	75

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~−0.03	h6

HSS

CBN  
END MILLSi-Xmill  
END MILLSi-HS mill  
END MILLSX5070  
END MILLS4G MILL  
END MILLSX-SPEED  
ROUGHER  
END MILLSX-POWER  
END MILLSJET-POWER  
END MILLSTN MILL  
END MILLSV7 Mill  
END MILLSALU-POWER  
END MILLSCRX S  
END MILLSD-POWER  
GRAPHITE  
END MILLSD-POWER  
CFRP  
END MILLS

ROUTERS

K-2 CARBIDE  
END MILLSGENERAL  
CARBIDE  
END MILLSTANK-POWER  
END MILLSGENERAL  
HSS  
END MILLSMILLING  
CUTTERSTECHNICAL  
DATA

◎ : Excellent    ○ : Good

Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70				◎	○			○

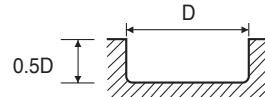


## D-POWER GRAPHITE END MILLS

### CARBIDE, 2 FLUTE MINIATURE CORNER RADIUS VOLLHARTMETALL, 2 SCHNEIDEN MINI ECKENRADIUS

#### EI996, EIB86 SERIES

MATERIAL	GRAPHITE				
	DIAMETER	RPM	FEED	Vc	fz
0.4	40000	640	50	0.008	
0.6	40000	640	75	0.008	
0.8	40000	800	100	0.010	
1.0	40000	960	125	0.012	
1.2	40000	1200	150	0.015	
1.5	40000	1440	190	0.018	
2.0	40000	1600	250	0.020	
3.0	27000	1900	255	0.035	
4.0	20000	2300	250	0.058	
5.0	16000	2300	250	0.072	
6.0	14000	2300	265	0.082	

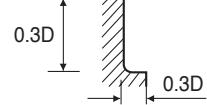


RPM = rev./min.  
FEED = mm/min.  
Vc = m/min.  
fz = mm/t

### CARBIDE, 3 FLUTE 40° HELIX CORNER RADIUS VOLLHARTMETALL, 3 SCHNEIDEN 40° RECHTSSPIRALE ECKENRADIUS

#### EIA13, EIA14 SERIES

MATERIAL	GRAPHITE				
	DIAMETER	RPM	FEED	Vc	fz
2.0	40000	3000	250	0.025	
3.0	40000	4200	375	0.035	
4.0	40000	6000	505	0.050	
5.0	40000	7200	630	0.060	
6.0	40000	8400	755	0.070	
8.0	32000	8400	805	0.088	
10.0	26000	8600	815	0.110	
12.0	21000	8200	790	0.130	



\* The FEED, in long & long reach types,  
should be reduced by around 50%

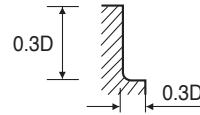
RPM = rev./min.  
FEED = mm/min.  
Vc = m/min.  
fz = mm/t

## RECOMMENDED CUTTING CONDITIONS EMPFOHLENE SCHNEIDKONDITIONEN

### CARBIDE, 4 FLUTE CORNER RADIUS VOLLHARTMETALL, 4 SCHNEIDEN ECKENRADIUS

#### EIB88 SERIES

MATERIAL	GRAPHITE				
	DIAMETER	RPM	FEED	Vc	fz
6.0	40000	5600	755	0.035	
8.0	32000	5600	805	0.044	
10.0	26000	5700	815	0.055	
12.0	21000	5450	790	0.065	



RPM = rev./min.  
FEED = mm/min.  
Vc = m/min.  
fz = mm/t