ALU-POWER END MILLS

PLAIN SHANK **E5E39** SERIES
FLAT SHANK **E5E40** SERIES

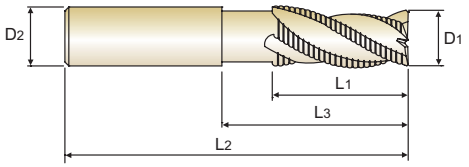
CARBIDE, 3 FLUTE ROUGHING with NECK

VOLLHARTMETALL, 3 SCHNEIDEN SCHRUPPFRÄSER MIT ABGESETZTEM SCHAFTTETL
FRAISE CARBURE, 3 DENTS, ÉBAUCHE DÉTALONNÉE
3 TAGLIENTI, PER SGROSSATURA, SCARICATA

- Excellent cutting qualities on aluminum and copper
- Increased tool life and higher cutting accuracy
- Mirror surface - Excellent surface finish

- Ausgezeichnete Schneideigenschaften in Aluminium, Kupfer
- Verbesserte Standzeiten und höhere Fräsgenauigkeit.
- Spiegel-Oberfläche - Hervorragendes Oberflächenfinishing.





CARBIDE | YG STD | WR | 3 | 30° | DIN 6535HA | DIN 6535HB | C x 45° | UNCOATED

p.C539

Recommended ToolHolder	Flat Shank	Plain Shank
	END MILL HOLDER	HYDRAULIC CHUCK
		SHRINK FIT HOLDER
		POWER MILLING CHUCK
	-	ER COLLET CHUCK

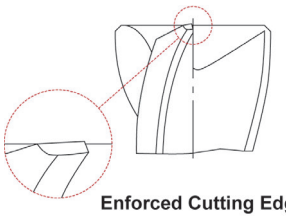
Unit : mm

EDP No.		Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall engthh	Neck Diameter	Chamfer
PLAIN	FLAT	D_1	D_2	L_1	L_3	L_2	D_3	
E5E39060	**E5E40060**	**6.0**	6	16	20	57	5	0.60
E5E39080	**E5E40080**	**8.0**	8	16	25	63	7	0.60
E5E39100	**E5E40100**	**10.0**	10	22	30	72	9	0.60
E5E39120	**E5E40120**	**12.0**	12	26	36	83	10.5	0.60
E5E39160	**E5E40160**	**16.0**	16	32	42	92	14.5	0.91
E5E39200	**E5E40200**	**20.0**	20	38	52	104	18.5	0.91

- TiN, TiCN and TiAlN Coatings are available on your request.

Tolerances according to DIN 7160 & 7161

Tolerance range in ㎛					
Nominal-Diameter in ㎜					
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30
h10	0 / - 40	0 / - 48	0 / - 58	0 / - 70	0 / - 84
h5	0 / - 4	0 / - 5	0 / - 6	0 / - 8	0 / - 9



Enforced Cutting Edge

◎ : 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	◎	◎	◎	◎	○																