

**YG X5070  
END MILLS**

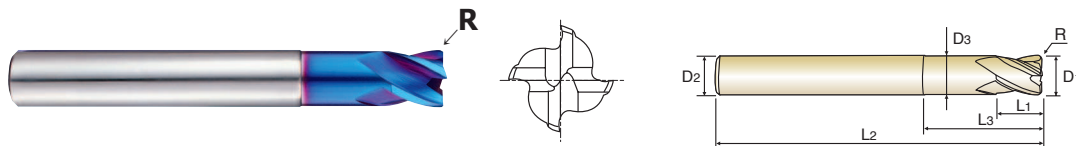
**G8A47 SERIES**

PLAIN SHANK  
GLATTER ZYLINDERSCHAFT

**CARBIDE, 4 FLUTE CORNER RADIUS with EXTENDED NECK**  
**VOLLHARTMETALL, 4 SCHNEIDEN ECKENRADIUS mit ABGESETZTEM SCHAFTTEIL**

- ▶ Designed to machine high hardened materials.
- ▶ Suitable for dry cutting, high speed cutting thanks to newly developed raw-material and new coating.
- ▶ Excellent workpiece finish.
- ▶ Deep slotting is possible by reduced neck.
- ▶ Corner radius for preventing the chipping in high speed machining.
- ▶ Higher wear-resistance.

- ▶ Geeignet zum Fräsen hochgehärteter Stähle.
- ▶ Geeignet zum Trockenfräsen und HSC-Fräsen dank neuentwickeltem Material und Beschichtung.
- ▶ Excellente Werkstückoberflächen.
- ▶ Abgesetzter Schaft für größere Reichweite.
- ▶ Schneidkantenschutz durch definierten Radius.
- ▶ Höhere Verschleißfestigkeit.



NG HM
4
BLUE
30°
±0.010
±0.015
PLAIN
P.695

Ø3-Ø6 Ø8-Ø12

Unit : mm

EDP No.	Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
	R	D1	D2	L1	L3	L2	D3
G8A47916	R0.3	3.0	6	4	12	55	2.85
G8A47917	R0.3	3.0	6	4	16	55	2.85
G8A47918	R0.3	3.0	6	4	20	55	2.85
G8A47030	R0.5	3.0	6	4	10	55	2.85
G8A47901	R0.5	3.0	6	4	16	55	2.85
G8A47902	R0.5	3.0	6	4	20	55	2.85
G8A47919	R0.3	4.0	6	5	12	55	3.85
G8A47920	R0.3	4.0	6	5	16	55	3.85
G8A47921	R0.3	4.0	6	5	20	55	3.85
G8A47040	R0.5	4.0	6	5	12	55	3.85
G8A47903	R0.5	4.0	6	5	16	55	3.85
G8A47904	R0.5	4.0	6	5	20	55	3.85
G8A47922	R1.0	4.0	6	5	12	55	3.85
G8A47060	R0.5	6.0	6	7	20	60	5.85
G8A47905	R1.0	6.0	6	7	20	60	5.85
G8A47906	R1.5	6.0	6	7	20	60	5.85
G8A47910	R0.5	8.0	8	9	25	60	7.7
G8A47080	R1.0	8.0	8	9	25	60	7.7
G8A47907	R1.5	8.0	8	9	25	60	7.7
G8A47913	R2.0	8.0	8	9	25	60	7.7
G8A47911	R0.5	10.0	10	11	32	70	9.7
G8A47100	R1.0	10.0	10	11	32	70	9.7
G8A47908	R1.5	10.0	10	11	32	70	9.7
G8A47914	R2.0	10.0	10	11	32	70	9.7
G8A47912	R0.5	12.0	12	12	38	80	11.7
G8A47120	R1.0	12.0	12	12	38	80	11.7
G8A47909	R1.5	12.0	12	12	38	80	11.7
G8A47915	R2.0	12.0	12	12	38	80	11.7

Due to the characteristics of blue decoration layer which might be erased during short term using, the color layer might not be uniform moreover.  
However, it doesn't effect on performance of tool.

Size	Corner Radius Tolerance (mm)	Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
up to Ø6	±0.010	0~-0.012	h6
over Ø6	±0.015	0~-0.015	

◎ : 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									
		○	○	◎									



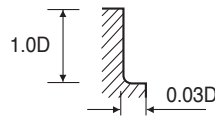
**RECOMMENDED CUTTING CONDITIONS  
EMPFOLGENE SCHNEIDKONDITIONEN**

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

**G8A47, G8B08 SERIES**

MATERIAL HARDNESS DIAMETER	ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS							
	HRc 30 ~ HRc 40				HRc 40 ~ HRc 50				HRc 50 ~ HRc 55			
	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz
1.0	48000	1184	150	0.006	38000	840	120	0.006	25500	568	80	0.006
2.0	33300	1400	210	0.011	26000	1000	165	0.010	17500	672	110	0.010
3.0	21800	1400	205	0.016	17300	1000	165	0.014	11500	672	110	0.015
4.0	16700	1440	210	0.022	13200	1040	165	0.020	8800	704	110	0.020
5.0	15700	1600	245	0.025	12500	1200	195	0.024	8300	800	130	0.024
6.0	13100	1560	245	0.030	10350	1120	195	0.027	6900	760	130	0.028
8.0	9880	1504	250	0.038	7800	1080	195	0.035	5200	720	130	0.035
10.0	7800	1400	245	0.045	6150	1008	195	0.041	4100	672	130	0.041
12.0	6650	1400	250	0.053	5250	1008	200	0.048	3500	672	130	0.048
16.0	4900	1200	245	0.061	3900	880	195	0.056	2600	584	130	0.056
20.0	3900	1040	245	0.067	3100	776	195	0.063	2050	520	130	0.063

MATERIAL HARDNESS DIAMETER	HARDENED STEELS											
	HRc 55 ~ HRc 60				HRc 60 ~ HRc 65				HRc 65 ~ HRc 70			
	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz
1.0	20500	344	65	0.004	16000	216	50	0.003	12500	140	40	0.700
2.0	14500	416	90	0.007	11000	256	70	0.006	9500	184	60	0.657
3.0	9500	416	90	0.011	7500	256	70	0.009	6400	184	60	0.657
4.0	7200	432	90	0.015	5600	268	70	0.012	4750	192	60	0.686
5.0	6400	464	100	0.018	5100	296	80	0.015	4450	216	70	0.675
6.0	5300	448	100	0.021	4200	280	80	0.017	3700	208	70	0.650
8.0	4000	416	100	0.026	3200	264	80	0.021	2800	192	70	0.600
10.0	3200	384	100	0.030	2550	248	80	0.024	2200	176	70	0.550
12.0	2650	384	100	0.036	2100	240	80	0.029	1860	176	70	0.550
16.0	2000	336	100	0.042	1600	216	80	0.034	1400	160	70	0.500
20.0	1600	304	100	0.048	1300	200	80	0.038	1100	144	70	0.450



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

HSS

CBN  
END MILLS

i-Xmill  
END MILLS

i-HS mill  
END MILLS

X5070  
END MILLS

4G MILL  
END MILLS

X-SPEED  
ROUGHER  
END MILLS

X-POWER  
END MILLS

JET-POWER  
END MILLS

TN MILL  
END MILLS

V7 Mill  
END MILLS

ALU-POWER  
END MILLS

CRX S  
END MILLS

D-POWER  
GRAPHITE  
END MILLS

D-POWER  
CFRP  
END MILLS

ROUTERS

K-2 CARBIDE  
END MILLS

GENERAL  
CARBIDE  
END MILLS

TANK-POWER  
END MILLS

GENERAL  
HSS  
END MILLS

MILLING  
CUTTERS

TECHNICAL  
DATA