



**CARBIDE**

Being the best through innovation

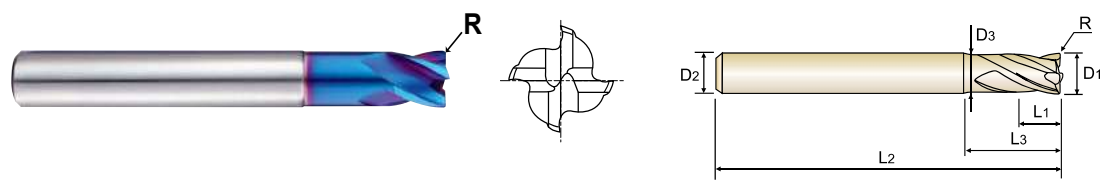


# **X5070 END MILLS**

- High Hardened Steels HRc45 to HRc70, High Speed Machining, Dry Cutting

# CARBIDE, 4 FLUTE STUB LENGTH CORNER RADIUS with EXTENDED NECK

- ▶ Designed to machine high hardened materials.
- ▶ Suitable for dry cutting, high speed cutting due 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.



NG 4 BLUE 30° ±0.010 ±0.015 PLAIN P.660

◇ Call for Availability

Unit : mm

EDP No.	Corner Radius	Mill Diameter		Shank Diameter	Length of Cut	Length Below Shank	Overall Length	Neck Diameter
		Metric	Inch					
	R	D1		D2	L1	L3	L2	D3
G8A37010	RO.1	1.0	.0394	3	1.5	-	40	-
G8A37901	RO.1	1.0	.0394	6	1.5	-	40	-
G8A37015	RO.1	1.5	.0591	3	2.2	-	40	-
G8A37902	RO.1	1.5	.0591	6	2.2	-	40	-
G8A37020	RO.1	2.0	.0787	3	3	6	40	1.95
G8A37903	RO.1	2.0	.0787	6	3	6	40	1.95
G8A37025	RO.1	2.5	.0984	3	4	6	40	2.4
G8A37904	RO.1	2.5	.0984	6	4	6	40	2.4
G8A37030	RO.1	3.0	.1181	6	4	7	45	2.85
G8A37035	RO.1	3.5	.1378	6	5	9	45	3.35
G8A37040	RO.1	4.0	.1575	6	5	9	45	3.85
G8A37045	RO.1	4.5	.1772	6	6	10	45	4.35
G8A37050	RO.2	5.0	.1969	6	6	11	50	4.85
G8A37060	RO.2	6.0	.2362	6	7	14	50	5.85
G8A37080	RO.2	8.0	.3150	8	9	18	60	7.7
G8A37100	RO.2	10.0	.3937	10	12	25	75	9.7
G8A37120	RO.3	12.0	.4724	12	15	30	75	11.7
G8A37160	RO.3	16.0	.6299	16	18	38	90	15.7
G8A37200	RO.3	20.0	.7874	20	24	45	100	19.7

↙ The original bright blue color may discolor during use, however, the performance will not be negatively affected

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

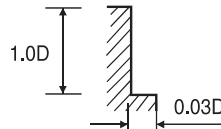
P				H	M	K	N				S		
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HRc20	HRc20~30	HRc30~40	HRc40~45 HRc45~55	HRc55~70									
		○	○	◎	◎								

- CARBIDE
- HSS
- CBN END MILLS
- i-Xmill END MILLS
- i-SMART MODULAR TYPE END MILLS
- X5070 END MILLS
- 4G MILL END MILLS
- X-POWER END MILLS
- JET-POWER END MILLS
- TitaNox -POWER END MILLS
- V7 PLUS A END MILLS
- V7 MILL INOX END MILLS
- ALU-POWER HPC END MILLS
- ALU-POWER END MILLS
- D-POWER GRAPHITE END MILLS
- D-POWER CFRP END MILLS
- ROUTERS CFRP
- STANDARD CARBIDE END MILLS
- ONLY ONE COATED PM60 END MILLS
- SINE -POWER END MILLS
- TANK-POWER END MILLS
- STANDARD COBALT & HSS END MILLS
- TECHNICAL DATA

**CARBIDE, 4 FLUTE STUB LENGTH CORNER RADIUS  
with EXTENDED NECK**

**G8A37 SERIES**

MATERIAL	ALLOY STEELS HEAT RESISTANT STEELS		HARDENED STEELS									
	HRc 30 ~ HRc 40		HRc 40 ~ HRc 50		HRc 50 ~ HRc 55		HRc 55 ~ HRc 60		HRc 60 ~ HRc 65		HRc 65 ~ HRc 70	
HARDNESS	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
DIAMETER												
1.0	48000	58.3	38000	41.3	25500	28.0	20500	16.9	16000	10.6	12500	6.9
2.0	33300	68.9	26000	49.2	17500	33.1	14500	20.5	11000	12.6	9500	9.1
3.0	21800	68.9	17300	49.2	11500	33.1	9500	20.5	7500	12.6	6400	9.1
4.0	16700	70.9	13200	51.2	8800	34.7	7200	21.3	5600	13.2	4750	9.5
5.0	15700	78.7	12500	59.1	8300	39.4	6400	22.8	5100	14.6	4450	10.6
6.0	13100	76.8	10350	55.1	6900	37.4	5300	22.1	4200	13.8	3700	10.2
8.0	9880	74.0	7800	53.2	5200	35.4	4000	20.5	3200	13.0	2800	9.5
10.0	7800	68.9	6150	49.6	4100	33.1	3200	18.9	2550	12.2	2200	8.7
12.0	6650	68.9	5250	49.6	3500	33.1	2650	18.9	2100	11.8	1860	8.7
16.0	4900	59.1	3900	43.3	2600	28.7	2000	16.5	1600	10.6	1400	7.9
20.0	3900	51.2	3100	38.2	2050	25.6	1600	15.0	1300	9.8	1100	7.1

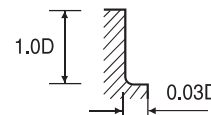
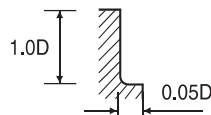


RPM = rev./min.  
FEED = inch/min.

**CARBIDE, 6 FLUTE 45° HELIX CORNER RADIUS**

**G8A39 SERIES**

MATERIAL	ALLOY STEELS HEAT RESISTANT STEELS		HARDENED STEELS									
	HRc 30 ~ HRc 40		HRc 40 ~ HRc 50		HRc 50 ~ HRc 55		HRc 55 ~ HRc 60		HRc 60 ~ HRc 65		HRc 65 ~ HRc 70	
HARDNESS	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED	RPM	FEED
DIAMETER												
6.0	24800	210.6	23500	192.9	16000	192.9	13500	129.9	10500	82.7	8000	57.1
8.0	20000	216.5	19000	196.9	12000	181.1	10000	122.1	8000	78.7	6000	55.1
10.0	16000	192.9	15500	177.2	9500	161.4	8000	114.2	6400	70.9	4800	51.2
12.0	13000	177.2	12500	161.4	8000	149.6	6600	98.4	5300	63.0	4000	45.3
16.0	10000	157.5	9700	145.7	6000	133.9	5000	90.6	4000	49.2	3000	34.3
20.0	8000	131.9	7800	133.9	4800	126.0	4000	82.7	3200	40.2	2400	27.2



※ The Feed, in long & extra long types, should be reduced by around 50%.

RPM = rev./min.  
FEED = inch/min.