

**YG K-2 CARBIDE  
END MILLS**

**G9B83**SERIES

PLAIN SHANK  
GLATTER ZYLINDERSCHAFT

**CARBIDE, 2 FLUTE LONG REACH CORNER RADIUS  
VOLLHARTMETALL, 2 SCHNEIDEN GROÙE REICHWEITE ECKENRADIUS**

- ▶ Odpowiednie do frezowania na sucho w podwyższonych temperaturach
- ▶ Frezy walcowo czolowe o wysokiej wydajności
- ▶ Konstrukcja z dwoma ostrzami do frezowania rowków



P.1079

Unit : mm

EDP No.	Corner Radius R	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
G9B83030	R0.5	3.0	4	6	75
G9B83901	R1.0	3.0	4	6	75
G9B83040	R0.5	4.0	4	8	75
G9B83902	R1.0	4.0	4	8	75
G9B83050	R0.5	5.0	6	10	75
G9B83903	R1.0	5.0	6	10	75
G9B83060	R0.5	6.0	6	12	75
G9B83904	R1.0	6.0	6	12	75
G9B83080	R0.5	8.0	8	16	100
G9B83905	R1.0	8.0	8	16	100
G9B83906	R1.5	8.0	8	16	100
G9B83907	R2.0	8.0	8	16	100
G9B83908	R2.5	8.0	8	16	100
G9B83100	R0.5	10.0	10	20	100
G9B83909	R1.0	10.0	10	20	100
G9B83910	R1.5	10.0	10	20	100
G9B83911	R2.0	10.0	10	20	100
G9B83912	R2.5	10.0	10	20	100
G9B83120	R0.5	12.0	12	24	100
G9B83913	R1.0	12.0	12	24	100
G9B83914	R1.5	12.0	12	24	100
G9B83915	R2.0	12.0	12	24	100
G9B83916	R2.5	12.0	12	24	100

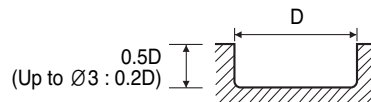
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

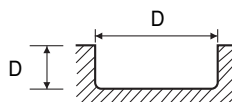
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Copper	Graphite	Cast Iron	Aluminum	Stainless Steels	Titanium	Inconel	Acrylic	CFRP
~HB225	HB225~325	HRc30~40	HRc40~45	HRc45~55	HRc55~70									
◎	◎	◎				○		○	○	○				

**K-2 CARBIDE END MILLS**
**RECOMMENDED CUTTING CONDITIONS  
EMPFOHLENE SCHNEIDKONDITIONEN**
**CARBIDE, 2 FLUTE CORNER RADIUS FINISH SLOTTING  
VOLLHARTMETALL, 2 SCHNEIDEN ECKENRADIUS SCHLICHTEN NUTENFRÄSEN**
**G9B82, G9B83 SERIES**

MATERIAL	NON-ALLOYED STEELS ALLOY STEELS TOOL STEELS				ALLOY STEELS, HEAT RESISTANT STEELS				STAINLESS STEELS			
HARDNESS	~ HRc 30				HRc 30 ~ HRc 45							
STRENGTH	~1000N/mm <sup>2</sup>				1000~1500N/mm <sup>2</sup>							
DIAMETER	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz
2.0	7850	160	50	0.010	5150	100	30	0.010	4300	80	25	0.009
3.0	6100	180	55	0.015	3800	120	35	0.016	3150	100	30	0.016
4.0	5150	255	65	0.025	3150	155	40	0.025	2650	130	35	0.025
5.0	4300	270	70	0.031	2550	160	40	0.031	2150	135	35	0.031
6.0	3800	300	70	0.039	2300	190	45	0.041	1950	155	35	0.040
8.0	2850	325	70	0.057	1700	170	45	0.050	1450	155	35	0.053
10.0	2200	280	70	0.064	1350	135	40	0.050	1150	135	35	0.059
12.0	1850	240	70	0.065	1150	110	45	0.048	950	110	35	0.058



MATERIAL	CAST IRON				ALUMINUM ALLOYS				COPPER, BRASS NON-FERROUS METALS			
HARDNESS												
STRENGTH												
DIAMETER	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz
2.0	9350	220	60	0.012	22000	460	140	0.010	16500	340	105	0.010
3.0	6050	220	55	0.018	15400	460	145	0.015	11000	340	105	0.015
4.0	4600	220	60	0.024	11000	460	140	0.021	8800	340	110	0.019
5.0	3650	220	55	0.030	9150	460	145	0.025	6800	340	105	0.025
6.0	2950	255	55	0.043	7600	485	145	0.032	5700	375	105	0.033
8.0	2200	275	55	0.063	5700	485	145	0.043	4400	375	110	0.043
10.0	1850	285	60	0.077	4600	485	145	0.053	3400	375	105	0.055
12.0	1450	295	55	0.102	3750	485	140	0.065	2850	375	105	0.066



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

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