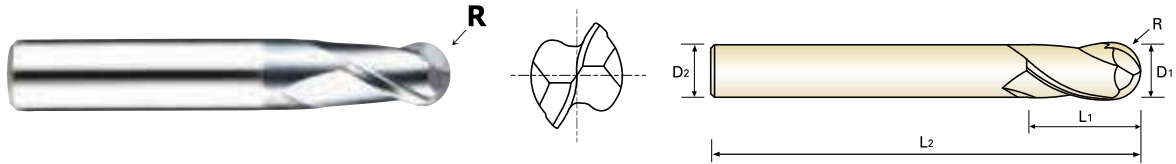




PLAIN SHANK
GLATTER ZYLINDERSCHAFT
FLAT SHANK
SEITLICHE MITNAHMEFLÄCHEN

PM60, 2 FLUTE BALL NOSE SHORT LENGTH

- PM60, 2 Schneiden, Stirnradius kurz
- Revêtuë YG-AICrN - PM60, 2 dents, série courte, hémisphérique
- Rivestita PM60, 2 TAGLIENTE SERIE CORTA SEMISFERICA



PM 60
2
30°
±0.02
PLAIN
FLAT
P. 1330

Unit : mm

EDP No.		Radius of Ball Nose	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
PLAIN	FLAT	R(±0.02)	D1	D2	L1	L2
GYG77010	GYF97010	R0.5	1.0	6	2.5	47
GYG77020	GYF97020	R1.0	2.0	6	4	48
GYG77030	GYF97030	R1.5	3.0	6	5	49
GYG77040	GYF97040	R2.0	4.0	6	7	51
GYG77050	GYF97050	R2.5	5.0	6	8	52
GYG77060	GYF97060	R3.0	6.0	6	8	52
GYG77070	GYF97070	R3.5	7.0	8	10	60
GYG77080	GYF97080	R4.0	8.0	8	11	61
GYG77090	GYF97090	R4.5	9.0	10	11	61
GYG77100	GYF97100	R5.0	10.0	10	13	63
GYG77120	GYF97120	R6.0	12.0	12	16	73
GYG77140	GYF97140	R7.0	14.0	12	16	73
GYG77160	GYF97160	R8.0	16.0	16	19	79
GYG77180	GYF97180	R9.0	18.0	16	19	79
GYG77200	GYF97200	R10.0	20.0	20	22	88
GYG77250	GYF97250	R12.5	25.0	25	26	102

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

◎ : 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
~HB225	HB225~325	HRC30~40	HRC40~45 HRc45~55	HRC55~70									
◎	◎	○	○		◎	◎	○						

CBN END MILLS

i-Xmill END MILLS

i-SMART MODULAR TYPE END MILLS

X5070 END MILLS

4G MILL END MILLS

X-POWER END MILLS

TitaNox-POWER END MILLS

JET-POWER END MILLS

V7 PLUS END MILLS

V7 MILL INOX END MILLS

ALU-POWER END MILLS

D-POWER GRAPHITE END MILLS

D-POWER CFRP END MILLS

ROUTERS

CRX S END MILLS

K-2 END MILLS

GENERAL CARBIDE END MILLS

ONLY ONE COATED PM60 END MILLS

TANK-POWER END MILLS

GENERAL HSS END MILLS

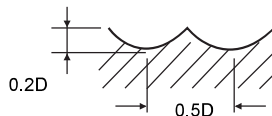
MILLING CUTTERS

TECHNICAL DATA

PM60, 2 FLUTE SHORT BALL NOSE
PM60, 2 Schneiden, kurz, Stirnradius

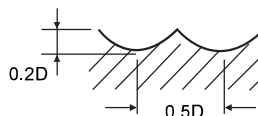
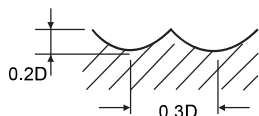
GYG77, GYF97 SERIES

MATERIAL	P															
	STRUCTURAL STEELS CARBON STEELS				STRUCTURAL STEELS CARBON STEELS				CARBON STEELS ALLOY STEELS TOOL STEELS				PREHARDENED STEELS ALLOY STEELS TOOL STEELS			
HARDNESS					~ HRc20				HRc20 ~ HRc30				HRc30 ~ HRc40			
STRENGTH	~ 500N/mm ²				500 ~ 800N/mm ²				800 ~ 1000N/mm ²				1000 ~ 1300N/mm ²			
DIAMETER	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz
R1.5x3.0	8760	410	83	0.023	6960	275	66	0.020	4680	150	44	0.016	2400	65	23	0.014
R2.0x4.0	7200	515	90	0.036	5540	350	70	0.032	3600	190	45	0.026	1920	90	24	0.023
R3.0x6.0	5280	575	100	0.054	4200	385	79	0.046	2760	215	52	0.039	1440	100	27	0.035
R4.0x8.0	4020	635	101	0.079	3120	420	78	0.067	2160	240	54	0.056	1070	100	27	0.047
R5.0x10.0	3300	720	104	0.109	2520	480	79	0.095	1680	275	53	0.082	820	120	26	0.073
R6.0x12.0	2760	635	104	0.115	2160	420	81	0.097	1440	240	54	0.083	700	100	26	0.071
R8.0x16.0	2040	575	103	0.141	1560	385	78	0.123	1070	215	54	0.100	530	95	27	0.090
R10.0x20.0	1620	505	102	0.156	1200	335	75	0.140	820	180	52	0.110	430	85	27	0.099
R12.5x25.0	1140	370	90	0.162	890	250	70	0.140	560	140	44	0.125	300	60	24	0.100



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

MATERIAL	P				M				K			
	ALLOY STEELS TOOL STEELS				STAINLESS STEELS				CAST IRON			
HARDNESS	HRc40 ~ HRc45											
STRENGTH	1300 ~ 1400N/mm ²											
DIAMETER	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz	RPM	FEED	Vc	fz
R1.5x3.0	1680	45	16	0.013	2640	70	25	0.013	6960	275	66	0.020
R2.0x4.0	1340	65	17	0.024	2110	95	27	0.023	5540	350	70	0.032
R3.0x6.0	1010	70	19	0.035	1580	115	30	0.036	4200	385	79	0.046
R4.0x8.0	750	70	19	0.047	1180	115	30	0.049	3120	420	78	0.067
R5.0x10.0	570	85	18	0.075	900	130	28	0.072	2520	480	79	0.095
R6.0x12.0	490	70	18	0.071	770	115	29	0.075	2160	420	81	0.097
R8.0x16.0	370	65	19	0.088	590	110	30	0.093	1560	385	78	0.123
R10.0x20.0	300	60	19	0.100	480	95	30	0.099	1200	335	75	0.140
R12.5x25.0	210	40	16	0.095	330	65	26	0.098	890	250	70	0.140



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