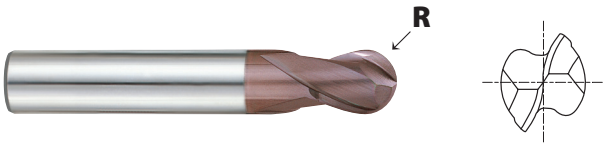
TiAlN-COATED SOLID CARBIDE END MILLS

2 FLUTE SHORT LENGTH BALL NOSE

G9A70 PLAIN SHANK

- ▶Suitable for dry milling applications at high temperatures.
- ▶Excellent high-performance end mills.
- ▶Designed for milling of radius bottom slots, fillets and special contours.





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Unit : mm

EDP No.	Radius of Ball Nose R (±0.02)	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
G9A70010	R0.5	**1.0**	3	3	39
G9A70015	R0.75	**1.5**	3	5	39
G9A70020	R1.0	**2.0**	3	7	39
G9A70025	R1.25	**2.5**	3	8	39
G9A70030	R1.5	**3.0**	3	9	39
G9A70040	R2.0	**4.0**	4	14	51
G9A70050	R2.5	**5.0**	5	16	51
G9A70060	R3.0	**6.0**	6	19	64
G9A70080	R4.0	**8.0**	8	21	64
G9A70100	R5.0	**10.0**	10	22	70
G9A70110	R5.5	**11.0**	11	25	70
G9A70120	R6.0	**12.0**	12	25	76
G9A70160	R8.0	**16.0**	16	32	89
G9A70200	R10.0	**20.0**	20	38	102

Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
0 ~ - 0.03	h5

◎ : 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
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	○	○	○	○	○	○	○	○	○

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
Recommended	○	○	○	○	○	○	○	○			○	○	○	○	○	○	○			○	