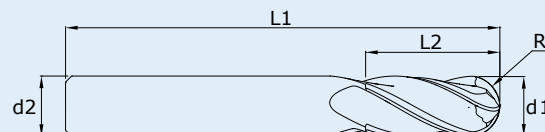


Solid carbide ball nose end mills
VHM - Radiusfräser
Fraises a rayon carbure
Karbür Küre Freze



F	E	1000	R	4	C	22	A	50	N	072
END MILL	MG-10		DIN 6528		DIN 6535 HA				nACo Multilayer	
TYPE	QUALITY	DIAMETER	NORM	FLUTES	SHAFT TYPE	FLUTE LENGTH	HELICAL	RADIUS	COATED	FULL LENGTH

d1(e8)	L2	L1	d2(h6)	Z	R	Uncoated Code	Price (Euro)	Coated Code	Price (Euro)
2	6	40	3	2-3-4	1	FE0200R4C06A10B040		FE0200R4C06A10N040	
3	8	40	3	2-3-4	1,5	FE0300R4C08A15B040		FE0300R4C08A15N040	
4	11	50	4	2-3-4	2	FE0400R4C11A20B050		FE0400R4C11A20N050	
5	13	50	5	2-3-4	2,5	FE0500R4C13A25B050		FE0500R4C13A25N050	
6	13	57	6	2-3-4	3	FE0600R4C13A30B057		FE0600R4C13A30N057	
7	16	60	7	2-3-4	3,5	FE0700R4C16A35B060		FE0700R4C16A35N060	
8	19	63	8	2-3-4	4	FE0800R4C19A40B063		FE0800R4C19A40N063	
9	19	67	9	2-3-4	4,5	FE0900R4C19A45B067		FE0900R4C19A45N067	
10	22	72	10	2-3-4	5	FE1000R4C22A50B072		FE1000R4C22A50N072	
11	26	83	11	2-3-4	5,5	FE1100R4C26A55B083		FE1100R4C26A55N083	
12	26	83	12	2-3-4	6	FE1200R4C26A60B083		FE1200R4C26A60N083	
13	26	83	13	2-3-4	6,5	FE1300R4C26A65B083		FE1300R4C26A65N083	
14	26	83	14	2-3-4	7	FE1400R4C26A70B083		FE1400R4C26A70N083	
15	32	92	15	2-3-4	7,5	FE1500R4C32A75B092		FE1500R4C32A75N092	
16	32	92	16	2-3-4	8	FE1600R4C32A80B092		FE1600R4C32A80N092	
18	32	92	18	2-3-4	9	FE1800R4C32A90B092		FE1800R4C32A90N092	
20	38	104	20	2-3-4	10	FE2000R4C38A10B104		FE2000R4C38A10N104	
22	38	104	22	2-3-4	11	FE2200R4C38A11B104		FE2200R4C38A11N104	
24	40	110	24	2-3-4	12	FE2400R4C40A12B110		FE2400R4C40A12N110	
25	40	110	25	2-3-4	12,5	FE2500R4C40A13B110		FE2500R4C40A13N110	

				HRC 20-30			HRC 30-40			INOX			GG			AL			CU			TITAN			< 52 HRC		
				1.0050-2 1.0060-2 1.0070-2			1.5864 1.6580 1.7225			1.4405 1.4460 1.4505			0.6035 0.7080 0.8055			3.2151 3.2373 3.2382			2.1247 2.0580 2.0598			3.7035 3.7055 3.7065			1.3255 1.3265 1.3333		
$Q_p = d_1 \times 0.5$ $d_e = d_e = d_1$				$V_c = 110 \text{ m/dk.}$			$V_c = 80 \text{ m/dk.}$			$V_c = 60 \text{ m/dk.}$			$V_c = 130 \text{ m/dk.}$			$V_c = 320 \text{ m/dk.}$			$V_c = 200 \text{ m/dk.}$			$V_c = 50 \text{ m/dk.}$			$V_c = 50 \text{ m/dk.}$		
d1	de	ap	ae	fz	n	Vf	fz	n	Vf	fz	n	Vf	fz	n	Vf	fz	n	Vf	fz	n	Vf	fz	n	Vf			
2	2	1.0	1.0	0.012	17500	210xZ	0.015	12740	190xZ	0.0013	9554	125xZ	0.030	20700	620xZ	0.022	50950	1120xZ	0.025	31850	800xZ	0.008	7960	65xZ	0.007	7960	55xZ
3	3	1.5	1.5	0.018	11666	210xZ	0.022	8492	190xZ	0.020	6369	125xZ	0.045	13800	620xZ	0.033	33966	1120xZ	0.038	21233	800xZ	0.012	5306	65xZ	0.010	5306	55xZ
4	4	2.0	2.0	0.024	8750	210xZ	0.030	6370	190xZ	0.026	4777	125xZ	0.060	10350	620xZ	0.044	25475	1120xZ	0.050	15925	800xZ	0.016	3980	65xZ	0.014	3980	55xZ
5	5	2.5	2.5	0.030	7000	210xZ	0.037	5100	190xZ	0.033	3822	125xZ	0.075	8280	620xZ	0.055	20380	1120xZ	0.063	12740	800xZ	0.020	3184	65xZ	0.017	3184	55xZ
6	6	3.0	3.0	0.036	5833	210xZ	0.045	4250	190xZ	0.039	3185	125xZ	0.090	6900	620xZ	0.066	16983	1120xZ	0.075	10616	800xZ	0.025	2653	65xZ	0.020	2653	55xZ
8	8	4.0	4.0	0.048	4375	210xZ	0.060	3185	190xZ	0.052	2389	125xZ	0.122	5175	620xZ	0.077	12737	1120xZ	0.100	7962	800xZ	0.033	1990	65xZ	0.028	1990	55xZ
10	10	5.0	5.0	0.060	3500	210xZ	0.075	2550	190xZ	0.065	1911	125xZ	0.150	4140	620xZ	0.088	10190	1120xZ	0.126	6370	800xZ	0.041	1592	65xZ	0.035	1592	55xZ
12	12	6.0	6.0	0.072	2916	210xZ	0.089	2123	190xZ	0.078	1592	125xZ	0.180	3450	620xZ	0.132	8492	1120xZ	0.151	5308	800xZ	0.049	1327	65xZ	0.041	1327	55xZ
14	14	7.0	7.0	0.084	2500	210xZ	0.104	1820	190xZ	0.092	1365	125xZ	0.194	3204	620xZ	0.154	7278	1120xZ	0.176	4550	800xZ	0.057	1137	65xZ	0.048	1135	55xZ
16	16	8.0	8.0	0.096	2187	210xZ	0.119	1592	190xZ	0.105	1194	125xZ	0.240	2587	620xZ	0.176	6369	1120xZ	0.201	3981	800xZ	0.065	995	65xZ	0.055	995	55xZ
18	18	9.0	9.0	0.108	1944	210xZ	0.134	1415	190xZ	0.118	1062	125xZ	0.270	2300	620xZ	0.198	5661	1120xZ	0.226	3539	800xZ	0.073	885	65xZ	0.062	885	55xZ
20	20	10.0	10.0	0.120	1750	210xZ	0.149	1275	190xZ	0.131	955	125xZ	0.300	2070	620xZ	0.220	5095	1120xZ	0.251	3185	800xZ	0.082	796	65xZ	0.069	796	55xZ
25	25	12.5	12.5	0.150	1400	210xZ	0.186	1020	190xZ	0.164	764	125xZ	0.370	1656	620xZ	0.275	4076	1120xZ	0.314	2548	800xZ	0.102	637	65xZ	0.086	637	55xZ