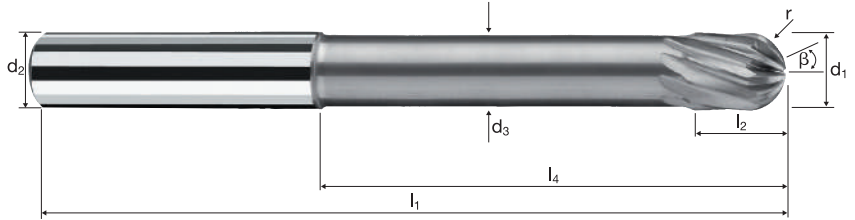


Ball nose end mills SpheroX

Tolerance $r \pm 0.005$, 6xd



HM λ 30°
XA γ -10°

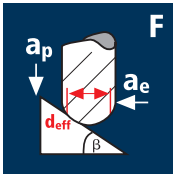


ToolSchool H7494

Rm	Rm	Rm	HRC	HRC	HRC	Ti	HSS
850-1100	1100-1300	1300-1500	48-56	56-60	> 60	Titanium	ToolSteel

Ø Code	Example: Order-N°.									X-AL
	d ₁	d ₂ h4	d ₃	l ₁	l ₂	l ₃	r ±0.005	β	z	X7464
300	6.00	6.00	5.50	80	7.00	42.34	3.000	25°	8	●
391	8.00	8.00	7.40	90	9.00	52.29	4.000	25°	10	●
450	10.00	10.00	9.20	105	11.00	63.20	5.000	25°	12	●
501	12.00	12.00	11.00	120	13.00	73.13	6.000	25°	16	●

Application



Material

Hardened tool steel
42 - 48 HRC



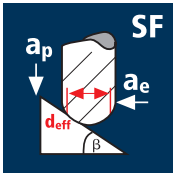
Hardened tool steel
48 - 52 HRC



Hardened tool steel
52 - 56 HRC



Hardened tool steel
56 - 60 HRC



Hardened tool steel
42 - 48 HRC



Hardened tool steel
48 - 52 HRC



Hardened tool steel
52 - 56 HRC



Hardened tool steel
56 - 60 HRC



d1 [mm]	z	v _c [m/min]	f _z [mm]	a _s [mm]	a _e [mm]	d _{eff} [mm]	n [min ⁻¹]	v _t [mm/min]	β [°]
6.00	8	300	0.055	0.120	0.120	5.26	18155	7990	45°
8.00	10	300	0.060	0.140	0.140	6.94	13760	8255	45°
10.00	12	300	0.065	0.160	0.160	8.62	11080	8640	45°
12.00	16	300	0.070	0.180	0.180	10.29	9280	10395	45°
6.00	8	250	0.050	0.120	0.120	5.26	15130	6050	45°
8.00	10	250	0.055	0.140	0.140	6.94	11465	6305	45°
10.00	12	250	0.060	0.160	0.160	8.62	9230	6645	45°
12.00	16	250	0.065	0.180	0.180	10.29	7735	8045	45°
6.00	8	200	0.050	0.120	0.120	5.26	12105	4840	45°
8.00	10	200	0.055	0.140	0.140	6.94	9175	5045	45°
10.00	12	200	0.060	0.160	0.160	8.62	7385	5315	45°
12.00	16	200	0.065	0.180	0.180	10.29	6185	6435	45°
6.00	8	150	0.045	0.120	0.120	5.26	9075	3270	45°
8.00	10	150	0.050	0.140	0.140	6.94	6880	3440	45°
10.00	12	150	0.055	0.160	0.160	8.62	5540	3655	45°
12.00	16	150	0.060	0.180	0.180	10.29	4640	4455	45°
6.00	8	400	0.030	0.030	0.030	4.80	26525	6365	45°
8.00	10	400	0.035	0.030	0.030	6.31	20180	7060	45°
10.00	12	400	0.035	0.040	0.040	7.91	16095	6760	45°
12.00	16	400	0.040	0.040	0.040	9.41	13530	8660	45°
6.00	8	350	0.030	0.030	0.030	4.80	23210	5570	45°
8.00	10	350	0.035	0.030	0.030	6.31	17655	6180	45°
10.00	12	350	0.035	0.040	0.040	7.91	14085	5915	45°
12.00	16	350	0.040	0.040	0.040	9.41	11840	7575	45°
6.00	8	280	0.025	0.030	0.030	4.80	18570	3715	45°
8.00	10	280	0.030	0.030	0.030	6.31	14125	4235	45°
10.00	12	280	0.030	0.040	0.040	7.91	11270	4055	45°
12.00	16	280	0.035	0.040	0.040	9.41	9470	5305	45°
6.00	8	180	0.025	0.030	0.030	4.80	11935	2385	45°
8.00	10	180	0.030	0.030	0.030	6.31	9080	2725	45°
10.00	12	180	0.030	0.040	0.040	7.91	7245	2610	45°
12.00	16	180	0.035	0.040	0.040	9.41	6090	3410	45°