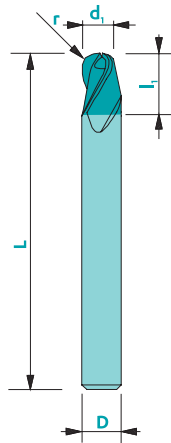
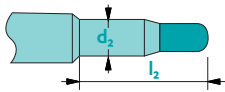


End mill with ball end Z3



Upon request



Material	Vc uncoated	Vc coated	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm ²	100	130	□	■	Tisi (BQ)
Steel > 700 N/mm ²	80	100	-	■	Tisi (BQ)
Stainless steel	50	70	□	■	Tisi (BQ)
Cast iron	60	100	□	■	Tisi (BQ)
Copper	130	160	□	■	Solo (DA)
Brass - Bronze	140	190	■	□	Solo (DA)
Aluminium	200	350	□	■	Solo (DA)
Gold - Silver	140	180	■	■	Solo (DA)
Platinum - Palladium	-	35	-	□	Solo (DA)
Superalloys	-	40	-	■	Trio (PO)
Titanium	40	60	■	■	RICO (ZB)

not adapted - adapted □ highly adapted ■

Tolerances $d_1 \leq 1 \text{ mm} \rightarrow 0/-0.01$ $D; h5$
 $d_1 > 1 \text{ mm} \rightarrow 0/-0.02$ $\curvearrowright +0/-0.01$
 $d_1 = D \rightarrow d_1; e8$

Available uncoated or coated (see page 308)



Z3



λ
30°

γ
8-10°

CARB



$ae=0.06xd_1$
 $ap=0.03xd_1$

Art. n°	d_1	l_1	D	L	r	Uncoat.	Trio*
114-3d1.00	1.0	2.0	3	38	0.50	▲	▲
114-3d1.50	1.5	2.5	3	38	0.75	▲	▲
114-3d2.00	2.0	3.0	3	38	1.00	▲	▲
114-3d2.50	2.5	4.0	3	38	1.25	▲	▲
114-3d3.00	3.0	4.5	3	38	1.50	▲	▲
114-3d3.50	3.5	5.0	6	51	1.75	▲	▲
114-3d4.00	4.0	6.0	6	51	2.00	▲	▲
114-3d4.50	4.5	7.0	6	51	2.25	▲	▲
114-3d5.00	5.0	8.0	6	51	2.50	▲	▲
114-3d5.50	5.5	8.0	6	51	2.75	▲	▲
114-3d6.00	6.0	9.0	6	51	3.00	▲	▲
114-3d6.50	6.5	10.0	8	61	3.25	▲	▲
114-3d7.00	7.0	10.0	8	61	3.50	▲	▲
114-3d7.50	7.5	12.0	8	61	3.75	▲	▲
114-3d8.00	8.0	12.0	8	61	4.00	▲	▲
114-3d8.50	8.5	13.0	10	72	4.25	▲	▲
114-3d9.00	9.0	13.0	10	72	4.50	▲	▲
114-3d10.00	10.0	15.0	10	72	5.00	▲	▲
114-3d11.00	11.0	16.0	12	83	5.50	▲	▲
114-3d12.00	12.0	18.0	12	83	6.00	▲	▲
114-3d14.00	14.0	21.0	14	83	7.00	▲	▲
114-3d16.00	16.0	24.0	16	92	8.00	▲	▲
114-3d18.00	18.0	27.0	18	92	9.00	▲	▲
114-3d20.00	20.0	30.0	20	104	10.00	▲	▲

* Prices for other coatings: contact us!
 To order a coated tool, add the 2-letter coating code to the article number