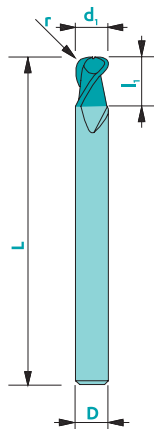
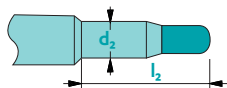


End mill with ball end Z2



Upon request



Material	Vc uncoated [m/min]	Vc coated [m/min]	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 $d_1 \leq 1 \text{ mm} \rightarrow 0/-0.01$
 $d_1 > 1 \text{ mm} \rightarrow 0/-0.02$
 $d_1 = D \rightarrow d_1: e8$
 $r \rightarrow +0/-0.01$
 $D: h5$

Available uncoated or coated (see page 300)



Z2



λ
35°



γ
8-10°

CARB



$ae = 0.06 \times d_1$
 $ap = 0.03 \times d_1$

If $d_1 \leq 0.5 \text{ mm}$, a double cone applies (see page 303)

Art. n°	d_1	l_1	D	L	r	Uncoat. Price
114-2d0.10	0.10	0.20	3	38	0.050	
114-2d0.15	0.15	0.30	3	38	0.075	
114-2d0.20	0.20	0.40	3	38	0.100	
114-2d0.25	0.25	0.50	3	38	0.120	
114-2d0.30	0.30	0.60	3	38	0.150	
114-2d0.40	0.40	0.80	3	38	0.200	
114-2d0.50	0.50	1.00	3	38	0.250	
114-2d0.60	0.60	1.20	3	38	0.300	
114-2d0.70	0.70	1.40	3	38	0.350	
114-2d0.80	0.80	1.60	3	38	0.400	
114-2d0.90	0.90	1.80	3	38	0.450	
114-2d1.00	1.00	2.00	3	38	0.500	
114-2d1.10	1.10	2.10	3	38	0.550	
114-2d1.20	1.20	2.20	3	38	0.600	
114-2d1.30	1.30	2.30	3	38	0.650	
114-2d1.40	1.40	2.40	3	38	0.700	
114-2d1.50	1.50	2.50	3	38	0.750	
114-2d1.60	1.60	2.50	3	38	0.800	
114-2d1.70	1.70	2.60	3	38	0.850	
114-2d1.80	1.80	2.60	3	38	0.900	
114-2d1.90	1.90	3.00	3	38	0.950	
114-2d2.00	2.00	3.00	3	38	1.000	
114-2d2.10	2.10	3.00	3	38	1.050	
114-2d2.20	2.20	3.50	3	38	1.100	
114-2d2.30	2.30	3.50	3	38	1.150	
114-2d2.40	2.40	3.50	3	38	1.200	
114-2d2.50	2.50	4.00	3	38	1.250	
114-2d3.00	3.00	4.50	3	38	1.500	
114-2d3.50	3.50	5.00	6	51	1.750	
114-2d4.00	4.00	6.00	6	51	2.000	

* Prices for coatings: contact us!

To order a coated tool, add the 2-letter coating code to the article number

End mill with ball end Z2

114-2

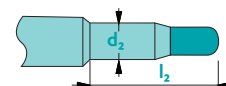
Continuation

Art. n°	d ₁	l ₁	D	L	r	Uncoat. Price
114-2d4.50	4.50	7.00	6	51	2.250	
114-2d5.00	5.00	8.00	6	51	2.500	
114-2d5.50	5.50	8.00	6	51	2.750	
114-2d6.00	6.00	9.00	6	51	3.000	
114-2d6.50	6.50	10.00	8	61	3.250	
114-2d7.00	7.00	10.00	8	61	3.500	
114-2d7.50	7.50	12.00	8	61	3.750	
114-2d8.00	8.00	12.00	8	61	4.000	
114-2d8.50	8.50	13.00	10	72	4.250	
114-2d9.00	9.00	13.00	10	72	4.500	
114-2d10.00	10.00	15.00	10	72	5.000	
114-2d12.00	12.00	18.00	12	83	6.000	
114-2d14.00	14.00	21.00	14	83	7.000	
114-2d16.00	16.00	24.00	16	92	8.000	

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



Upon request



Available uncoated or coated (see page 300)



Z2



λ
35°

γ
8-10°

CARB



ae=0.06xd₁
ap=0.03xd₁