

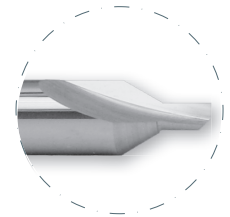
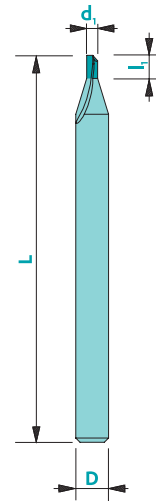
# Straight cut end mill Z1

111-1

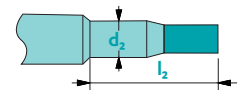
Material	Vc uncoated	Vc coated	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm <sup>2</sup>	-	60	-	□	Tisi (BQ)
Steel > 700 N/mm <sup>2</sup>	-	-	-	-	-
Stainless steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	80	110	■	□	Solo (DA)
Aluminium	-	-	-	-	-
Gold - Silver	50	60	■	■	Solo (DA)
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Titanium	20	30	□	■	RICO (ZB)

not adapted - adapted □ highly adapted ■

Tolerances  $d_1 \leq 1 \text{ mm}$  ▶ 0/-0.01  $D: h5$   
 $d_1 > 1 \text{ mm}$  ▶ 0/-0.02  
 $d_1 = D$  ▶  $d_1: e8$



Upon request



Art. n°	$d_1$	$l_1$	D	L	Uncoat.	Solo*	Art. n°	$d_1$	$l_1$	D	L	Uncoat.	Solo*
111-1d0.20	0.2	0.9	3.0	38	▲	▲	111-1d4.00	4.0	5.0	4.0	38	▲	▲
111-1d0.30	0.3	1.5	3.0	38	▲	▲	111-1d4.50	4.5	5.0	6.0	51	▲	▲
111-1d0.40	0.4	1.5	3.0	38	▲	▲	111-1d5.00	5.0	6.0	6.0	51	▲	▲
111-1d0.50	0.5	1.5	3.0	38	▲	▲	111-1d5.50	5.5	6.0	6.0	51	▲	▲
111-1d0.60	0.6	1.5	3.0	38	▲	▲	111-1d6.00	6.0	7.0	6.0	51	▲	▲
111-1d0.70	0.7	1.5	3.0	38	▲	▲	111-1d6.50	6.5	7.0	6.5	51	▲	▲
111-1d0.80	0.8	1.5	3.0	38	▲	▲	111-1d7.00	7.0	8.0	7.0	51	▲	▲
111-1d0.90	0.9	1.5	3.0	38	▲	▲	111-1d8.00	8.0	9.0	8.0	51	▲	▲
111-1d1.00	1.0	2.0	3.0	38	▲	▲							
111-1d1.10	1.1	2.0	3.0	38	▲	▲							
111-1d1.20	1.2	2.0	3.0	38	▲	▲							
111-1d1.30	1.3	2.0	3.0	38	▲	▲							
111-1d1.40	1.4	2.0	3.0	38	▲	▲							
111-1d1.50	1.5	2.0	3.0	38	▲	▲							
111-1d1.60	1.6	2.5	3.0	38	▲	▲							
111-1d1.70	1.7	2.5	3.0	38	▲	▲							
111-1d1.80	1.8	2.5	3.0	38	▲	▲							
111-1d1.90	1.9	2.5	3.0	38	▲	▲							
111-1d2.00	2.0	2.5	3.0	38	▲	▲							
111-1d2.10	2.1	3.0	3.0	38	▲	▲							
111-1d2.20	2.2	3.0	3.0	38	▲	▲							
111-1d2.30	2.3	3.0	3.0	38	▲	▲							
111-1d2.40	2.4	3.0	3.0	38	▲	▲							
111-1d2.50	2.5	3.5	3.0	38	▲	▲							
111-1d2.60	2.6	3.5	3.0	38	▲	▲							
111-1d2.70	2.7	3.5	3.0	38	▲	▲							
111-1d2.80	2.8	3.5	3.0	38	▲	▲							
111-1d2.90	2.9	3.5	3.0	38	▲	▲							
111-1d3.00	3.0	4.0	3.0	38	▲	▲							
111-1d3.50	3.5	4.0	4.0	38	▲	▲							

Available uncoated or coated (see page 308)



CARB



$ap = 0.5xd_1$

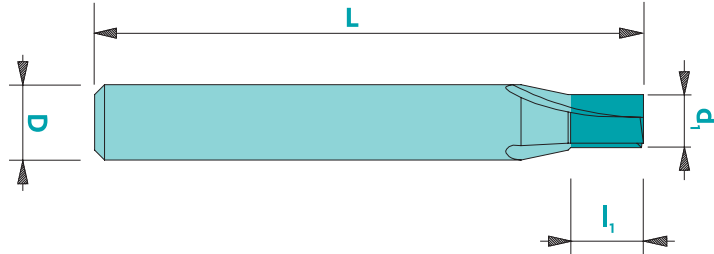


$ae = 0.5xd_1$   
 $ap = 0.5xd_1$

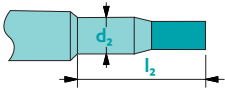
\* Prices for other coatings: contact us!

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

## Straight cut end mill Z1-3



Upon request



Available uncoated or coated (see page 308)

**Z1-3**



$\lambda$   
0°

$\gamma$   
0°

**CARB**



$ap=0.25d_1$



$ae=0.5xd_1$   
 $ap=0.5xd_1$

**Order**

**Quotation request**

<b>Dimensions :</b> $d_1$ : _____ $l_1$ : _____ $D$ : _____ Tolerances $d_1$ : _____ $L$ : _____ $Z$ : _____ $d_2$ : _____ $l_2$ : _____	<b>Order No :</b> _____
<b>Coating :</b> <input type="checkbox"/> Coated * : _____ <input type="checkbox"/> Uncoated	<b>Quantity :</b> _____
<b>Company's stamp &amp; date :</b> _____	
<b>Contact person :</b> _____	

Standard dimensions of the bars :  $\emptyset 3 \times L 38$ ,  $\emptyset 4 \times L 38$ ,  $\emptyset 6 \times L 38$ ,  $\emptyset 6 \times L 51$ ,  $\emptyset 8 \times L 61$ ,  $\emptyset 10 \times L 72$ ,  $\emptyset 12 \times L 83$ ,  $\emptyset 16 \times L 92$ ,  $\emptyset 20 \times L 104$

\* Without information, the most suitable coating will be applied.