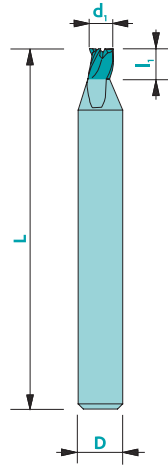
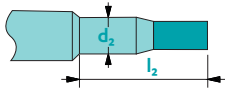


## Short end mill Z3



Upon request



Material	Vc uncoated	Vc coated	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm <sup>2</sup>	100	130	□	■	Tisi (BQ)
Steel > 700 N/mm <sup>2</sup>	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  $d_1 < D$  ▶  $d_1; 0/-0.02$  D; h5  
 $d_1 = D$  ▶  $d_1; e8$

Available uncoated or coated (see page 308)



Z3



$\lambda$   
30°

$\gamma$   
8-10°

CARB



$$ap = 0.25 \times d_1$$

$$ae = 0.5 \times d_1$$

$$ap = 0.5 \times d_1$$

Art. n°	$d_1$	$l_1$	D	L	Uncoat.	Trio*
109d1.50	1.5	3	6	51	▲	▲
109d2.00	2.0	3	6	51	▲	▲
109d2.50	2.5	3	6	51	▲	▲
109d3.00	3.0	4	6	51	▲	▲
109d3.50	3.5	4	6	51	▲	▲
109d4.00	4.0	5	6	51	▲	▲
109d4.50	4.5	5	6	51	▲	▲
109d5.00	5.0	6	6	51	▲	▲
109d5.50	5.5	7	6	51	▲	▲
109d6.00	6.0	7	6	51	▲	▲
109d7.00	7.0	8	8	61	▲	▲
109d8.00	8.0	9	8	61	▲	▲
109d9.00	9.0	10	10	72	▲	▲
109d10.00	10.0	11	10	72	▲	▲
109d12.00	12.0	12	12	83	▲	▲

\* Prices for other coatings: contact us!

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