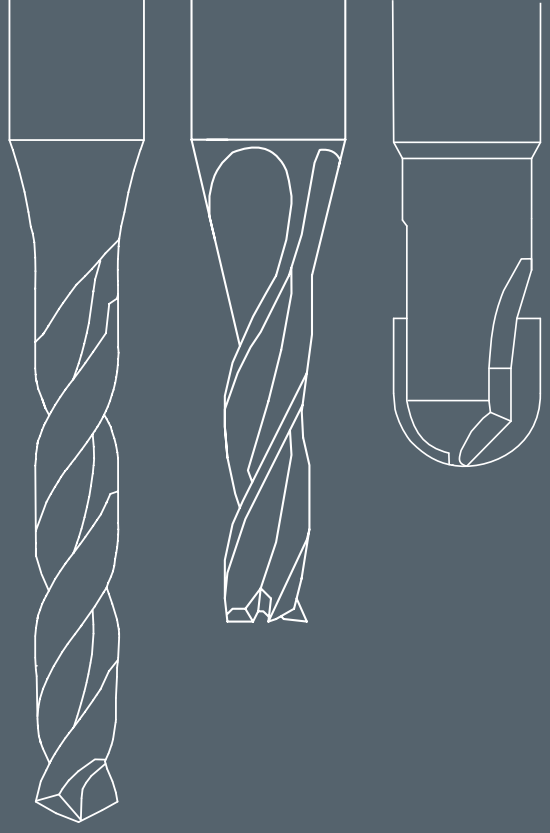

NEW

LOUIS BELET®

Swiss Cutting tools

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New
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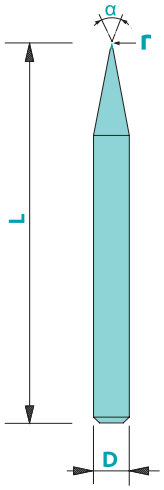
Engraving mill V-shape - reinforced radius on tip

119-4R

Material	n [rpm]	Ap	Uncoated	Coated	Rec. Coating♦
Steel < 700 N/mm²	25 - 40'000	0.05 -0.40	□	■	Tisi (BQ)
Steel > 700 N/mm²	20 - 40'000	0.05 -0.30	-	■	Tisi (BQ)
Stainless steel	20 - 30'000	0.05 - 0.30	-	□	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	25 - 40'000	0.05 - 0.40	□	■	Tisi (BQ)
Copper	20 - 40'000	0.05 - 0.40	□	■	Solo (DA)
Brass - Bronze	25 - 40'000	0.05 -0.40	■	■	Solo (DA)
Aluminium	25 - 40'000	0.05 - 0.50	□	■	Solo (DA)
Gold - Silver	20 - 40'000	0.05 -0.40	■	□	Solo (DA)
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	□	■	-
Cobalt - chrome	-	-	-	-	-
Titanium	25 - 40'000	0.05 - 0.40	□	■	RICO (ZB)
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■



Tolerances r : ± 0.005
D: h5

Article number : 119-4Ra###r#.##
Example: End mill ref. 119-4R with 25° angle and radius 0.05 mm: 119-4Ra25r0.05

α*	r**	D	L	Uncoat. Price
15-45°	0.02-0.09	3	33	
15-45°	0.10-0.30	3	33	
50-140°	0.02-0.09	3	33	
50-140°	0.10-0.30	3	33	

*Available angles: every 5° between 15° and 45°; every 10° between 50° and 140°
**Available radius: every 0.01 mm between 0.02 and 0.09 mm; every 0.05 mm between 0.10 and 0.30 mm

Other dimensions (angle, radius, shank) upon request

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

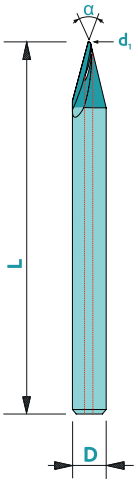
Available uncoated or coated

λ 0°

CARB

119-3H

Engraving mill with internal coolant - ¾ - flat tip



Material	n [rpm]	Ap	Uncoated	Coated	Rec. Coating♦
Steel < 700 N/mm²	25 - 40'000	0.05 -0.40	□	■	Tisi (BQ)
Steel > 700 N/mm²	20 - 40'000	0.05 -0.30	-	■	Tisi (BQ)
Stainless steel	20 - 30'000	0.05 - 0.30	-	□	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	25 - 40'000	0.05 - 0.40	□	■	Tisi (BQ)
Copper	20 - 40'000	0.05 - 0.40	□	■	Solo (DA)
Brass - Bronze	25 - 40'000	0.05 -0.40	■	■	Solo (DA)
Aluminium	25 - 40'000	0.05 - 0.50	□	■	Solo (DA)
Gold - Silver	20 - 40'000	0.05 -0.40	■	□	Solo (DA)
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	□	■	-
Cobalt - chrome	-	-	-	-	-
Titanium	25 - 40'000	0.05 - 0.40	□	■	RICO (ZB)
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■

Tolerances d_1: +/- 0.01
D : h5

Available uncoated or coated

0.02-0.30

λ 0°

CARB

Article number: 119-3Ha##d#.##
Example: End mill ref. 119-3H with 25° angle and tip diameter 0.05 mm: 119-3Ha25d0.05

α*	d_1**	D	L	Uncoat. Price
15-45°	0.02-0.09	3	33	
15-45°	0.10-0.30	3	33	
50-140°	0.02-0.09	3	33	
50-140°	0.10-0.30	3	33	

*Available angles: every 5° between 15° and 45°; every 10° between 50° and 140°
**Available radius: every 0.01 mm between 0.02 and 0.09 mm; every 0.05 mm between 0.10 and 0.30 mm

Other dimensions (angle, radius, shank) upon request

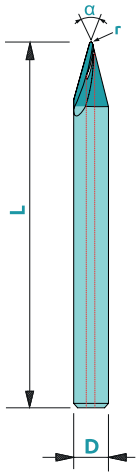
♦ Prices for coatings: contact us!
To order a coated tool, add the 2-letter coating code to the article number

Engraving mill with internal coolant - ¾ - radius on tip

119-3RH

Material	n [rpm]	Ap	Uncoated	Coated	Rec. Coating♦
Steel < 700 N/mm²	25 - 40'000	0.05 -0.40	□	■	Tisi (BQ)
Steel > 700 N/mm²	20 - 40'000	0.05 -0.30	-	■	Tisi (BQ)
Stainless steel	20 - 30'000	0.05 - 0.30	-	□	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	25 - 40'000	0.05 - 0.40	□	■	Tisi (BQ)
Copper	20 - 40'000	0.05 - 0.40	□	■	Solo (DA)
Brass - Bronze	25 - 40'000	0.05 -0.40	■	■	Solo (DA)
Aluminium	25 - 40'000	0.05 - 0.50	□	■	Solo (DA)
Gold - Silver	20 - 40'000	0.05 -0.40	■	□	Solo (DA)
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	□	■	-
Cobalt - chrome	-	-	-	-	-
Titanium	25 - 40'000	0.05 - 0.40	□	■	RICO (ZB)
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■



Tolerances r : +/- 0.005 ⌒ 0.01
D: h5

Article number : 119-3RHa##r#.##
Example: End mill ref. 119-3RH with 25° angle and radius 0.05 mm: 119-3RHa25r0.05

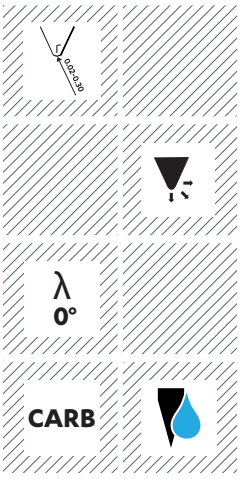
α*	r**	D	L	Uncoat. Price
15-45°	0.02-0.09	3	33	
15-45°	0.10-0.30	3	33	
50-140°	0.02-0.09	3	33	
50-140°	0.10-0.30	3	33	

*Available angles: every 5° between 15° and 45°; every 10° between 50° and 140°
**Available radius: every 0.01 mm between 0.02 and 0.09 mm; every 0.05 mm between 0.10 and 0.30 mm

Other dimensions (angle, radius, shank) upon request

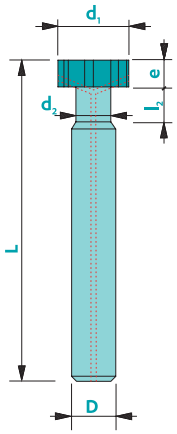
♦ Prices for coatings: contact us!
To order a coated tool, add the 2-letter coating code to the article number

Available uncoated or coated



117H

T-slot cutter with internal coolant - straigth toothing



Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	120	155	◻	■	Tisi (BQ)
Steel > 700 N/mm²	95	120	-	■	Tisi (BQ)
Stainless steel	60	85	◻	■	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	70	120	◻	■	Tisi (BQ)
Copper	155	190	◻	■	Solo (DA)
Brass - Bronze	170	230	■	◻	Solo (DA)
Aluminium	240	420	◻	■	Solo (DA)
Gold - Silver	170	215	■	■	Solo (DA)
Platinum - Palladium	-	40	-	◻	Solo (DA)
Superalloys	-	50	-	■	Trio (PO)
Cobalt - chrome	-	-	-	-	-
Titanium	50	70	■	■	RICO (ZB)
Composite	-	-	-	-	-

not adapted - adapted ◻ highly adapted ■

Tolerances

d_1<D ▶ d_1: 0/-0.02 l_2 : +0.2/-0 D: h5
d_1>D ▶ d_1: 0/-0.02 d_2: 0/-0.1
d_1=D ▶ -0.05/-0.10 e : +0.01/-0.01

Available uncoated or coated

Z3-9

λ 0°

γ 6-15°

CARB

Art. n°	d_1	e*	$d_{2\,mini}$	l_2	D	L	Z	Uncoat. Price
117Hd4.00e#.##Z#	4	0.5-4.0	3	3	6	56	3/6	
117Hd6.00e#.##Z#	6	0.5-6.0	3	4	6	56	3/6	
117Hd8.00e#.##Z#	8	0.5-6.0	4	5	8	61	6	
117Hd10.00e#.##Z#	10	1.0-8.0	6	5	10	70	6	
117Hd12.00e#.##Z#	12	1.0-10.0	7	6	12	80	6	
117Hd16.00e#.##Z#	16	1.0-10.0	10	8	16	88	6/9	
117Hd20.00e#.##Z#	20	1.0-10.0	10	8	20	100	6/9	

* e : available thickness: every 0.1 mm

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

☐ **Order** ☐ **Quotation request**

Dimensions :

d_1 : _____ e : _____ d_2 : _____ l_2 : _____

D : _____ L : _____ Z : ☐3 ☐6 ☐9

Coating :

☐ Uncoated

☐ Coated* : _____

Cut :

☐ right cut

☐ left cut

Machined material : _____

Quantity : _____

Order No : _____

Company's stamp & date :

_____

Contact person :

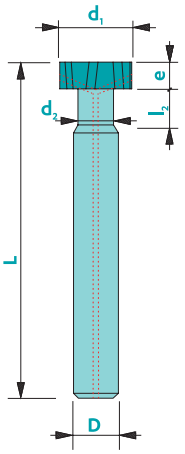
_____

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

T-slot cutter with internal coolant staggered teeth

Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	120	155	□	■	Tisi (BQ)
Steel > 700 N/mm²	95	120	-	■	Tisi (BQ)
Stainless steel	60	85	□	■	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	70	120	□	■	Tisi (BQ)
Copper	155	190	□	■	Solo (DA)
Brass - Bronze	170	230	■	□	Solo (DA)
Aluminium	240	420	□	■	Solo (DA)
Gold - Silver	170	215	■	■	Solo (DA)
Platinum - Palladium	-	40	-	□	Solo (DA)
Superalloys	-	50	-	■	Trio (PO)
Cobalt - chrome	-	-	-	-	-
Titanium	50	70	■	■	RICO (ZB)
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■



Tolerances

d_1<D ▶ d_1: 0/-0.02
d_1>D ▶ d_1: 0/-0.02
d_1=D ▶ -0.05/-0.10

l_2 : +0.2/-0
d_2: 0/-0.1
e : +0.01/-0.01

D: h5

Art. n°	d_1	e*	$d_{2\,mini}$	l_2	D	L	Z	Uncoat. Price
117-1Hd4.00e#.##Z#	4	0.5-3.0	3	3	6	56	6	
117-1Hd6.00e#.##Z#	6	0.5-3.0	3	4	6	56	6	
117-1Hd8.00e#.##Z#	8	0.5-6.0	4	5	8	61	6	
117-1Hd10.00e#.##Z#	10	0.5-4.0	6	5	10	70	6/12	
117-1Hd12.00e#.##Z#	12	0.5-5.0	7	6	12	80	6/12	
117-1Hd16.00e#.##Z#	16	0.5-6.0	10	8	16	88	6/12/18	
117-1Hd20.00e#.##Z#	20	0.5-6.0	10	8	20	100	6/12/18	

*e : available thickness: every 0.1 mm

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

Available uncoated or coated

Z6-18

λ ALT

γ 6-15°

CARB

□ **Order** □ **Quotation request**

Dimensions :

d_1 : _____ e : _____ d_2 : _____ l_2 : _____

D : _____ L : _____ Z : □ 6 □ 12 □ 18

Coating :

□ Uncoated

□ Coated* : _____

Cut :

□ right cut

□ left cut

Machined material : _____

Quantity : _____

Order No : _____

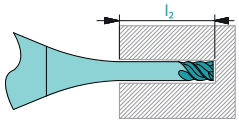
Company's stamp & date :

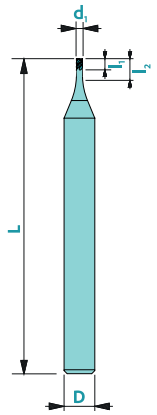
Contact person :

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

1430

Micro end mill for deep machining l_2=3xd_1





Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	40	-	■	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	130	150	■	■	Solo (DA)
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	100	-	■	Trio (PO)
Titanium	50	60	■	■	Nemo (NM)
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■

Tolerances

d_1: 0/-0.01
l_1 : +0.05/0
l_2 : +0.2/0

D : h5
L : +/-0.5

Available uncoated or coated

Z3-4

λ 45°

γ 14°

CARB

pas

ap

ae

pas=0.8xd_1

ap=l_1 max.

ae= $\frac{d_1^2}{4xAp}$

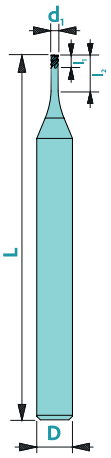
Art. n°	d_1	l_1	l_2	D	L	Z	Uncoat. Price
1430d0.20	0.20	0.30	0.60	3.0	38	3	
1430d0.25	0.25	0.38	0.75	3.0	38	3	
1430d0.30	0.30	0.45	0.90	3.0	38	3	
1430d0.35	0.35	0.52	1.05	3.0	38	4	
1430d0.40	0.40	0.60	1.20	3.0	38	4	
1430d0.45	0.45	0.68	1.35	3.0	38	4	
1430d0.50	0.50	0.75	1.50	3.0	38	4	
1430d0.60	0.60	0.90	1.80	3.0	38	4	
1430d0.70	0.70	1.05	2.10	3.0	38	4	
1430d0.80	0.80	1.20	2.40	3.0	38	4	
1430d0.90	0.90	1.35	2.70	3.0	38	4	
1430d1.00	1.00	1.50	3.00	3.0	38	4	

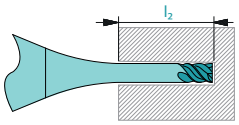
* Prices for coatings: contact us!
To order a coated tool, add the 2-letter coating code to the article number

Micro end mill for deep machining l_2=5xd_1

Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating♦
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	40	-	■	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	130	150	■	■	Solo (DA)
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	100	-	■	Trio (PO)
Titanium	50	60	■	■	Nemo (NM)
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■



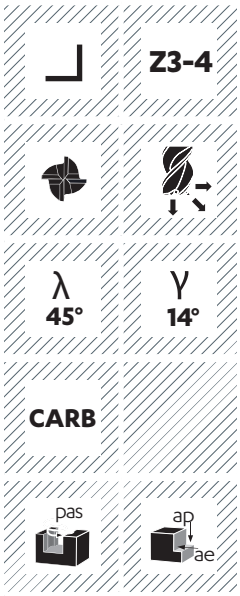


Tolerances d_1: 0/-0.01 D : h5
l_1 : +0.05/0 L : +/-0.5
l_2 : +0.2/0

Art. n°	d_1	l_1	l_2	D	L	Z	Uncoat. Price
1450d0.20	0.20	0.30	1.00	3.0	38	3	
1450d0.25	0.25	0.38	1.25	3.0	38	3	
1450d0.30	0.30	0.45	1.50	3.0	38	3	
1450d0.35	0.35	0.52	1.75	3.0	38	4	
1450d0.40	0.40	0.60	2.00	3.0	38	4	
1450d0.45	0.45	0.68	2.25	3.0	38	4	
1450d0.50	0.50	0.75	2.50	3.0	38	4	
1450d0.60	0.60	0.90	3.00	3.0	38	4	
1450d0.70	0.70	1.05	3.50	3.0	38	4	
1450d0.80	0.80	1.20	4.00	3.0	38	4	
1450d0.90	0.90	1.35	4.50	3.0	38	4	
1450d1.00	1.00	1.50	5.00	3.0	38	4	

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

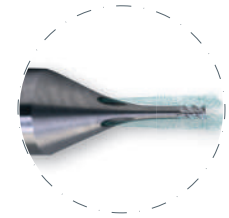
Available uncoated or coated

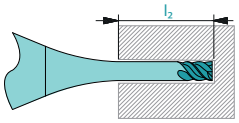


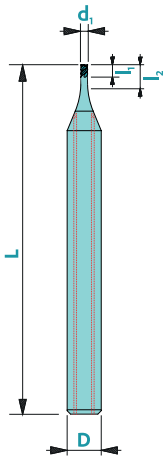
pas=0.8xd_1 ap=l_1 max.
ae= $\frac{d_1^2}{4xAp}$

1430H

Micro end mill with internal coolant for deep machining l_2=3xd_1







Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	40	-	■	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	130	150	■	■	Solo (DA)
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	100	-	■	Trio (PO)
Titanium	50	60	■	■	Nemo (NM)
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■

Tolerances

d_1: 0/-0.01
l_1 : +0.05/0
l_2 : +0.2/0

D : h5
L : +/-0.5

Available uncoated or coated

Z3-4

λ 45°

γ 14°

CARB

pas=0.8xd_1

ap=l_1 max.

ae= $\frac{d_1^2}{4xAp}$

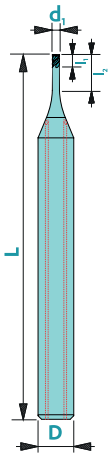
Art. n°	d_1	l_1	l_2	D	L	Z	Uncoat. Price
1430Hd0.20	0.20	0.30	0.60	3.0	38	3	
1430Hd0.25	0.25	0.38	0.75	3.0	38	3	
1430Hd0.30	0.30	0.45	0.90	3.0	38	3	
1430Hd0.35	0.35	0.52	1.05	3.0	38	4	
1430Hd0.40	0.40	0.60	1.20	3.0	38	4	
1430Hd0.45	0.45	0.68	1.35	3.0	38	4	
1430Hd0.50	0.50	0.75	1.50	3.0	38	4	
1430Hd0.60	0.60	0.90	1.80	3.0	38	4	
1430Hd0.70	0.70	1.05	2.10	3.0	38	4	
1430Hd0.80	0.80	1.20	2.40	3.0	38	4	
1430Hd0.90	0.90	1.35	2.70	3.0	38	4	
1430Hd1.00	1.00	1.50	3.00	3.0	38	4	

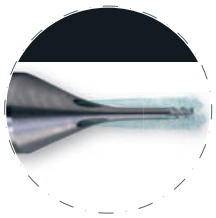
* Prices for coatings: contact us!
To order a coated tool, add the 2-letter coating code to the article number

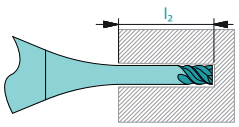
Micro end mill with internal coolant for deep machining l_2=5xd_1

Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	40	-	■	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	130	150	■	■	Solo (DA)
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	100	-	■	Trio (PO)
Titanium	50	60	■	■	Nemo (NM)
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■







Tolerances

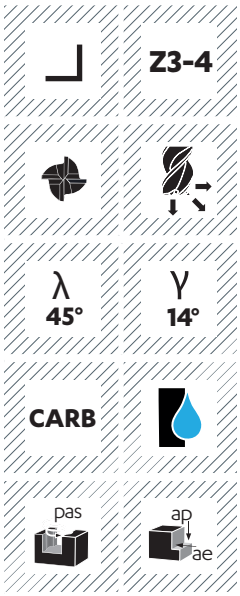
d_1: 0/-0.01
l_1 : +0.05/0
l_2 : +0.2/0

D: h5
L : +/-0.5

Art. n°	d_1	l_1	l_2	D	L	Z	Uncoat. Price
1450Hd0.20	0.20	0.30	1.00	3.0	38	3	
1450Hd0.25	0.25	0.38	1.25	3.0	38	3	
1450Hd0.30	0.30	0.45	1.50	3.0	38	3	
1450Hd0.35	0.35	0.52	1.75	3.0	38	4	
1450Hd0.40	0.40	0.60	2.00	3.0	38	4	
1450Hd0.45	0.45	0.68	2.25	3.0	38	4	
1450Hd0.50	0.50	0.75	2.50	3.0	38	4	
1450Hd0.60	0.60	0.90	3.00	3.0	38	4	
1450Hd0.70	0.70	1.05	3.50	3.0	38	4	
1450Hd0.80	0.80	1.20	4.00	3.0	38	4	
1450Hd0.90	0.90	1.35	4.50	3.0	38	4	
1450Hd1.00	1.00	1.50	5.00	3.0	38	4	

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

Available uncoated or coated



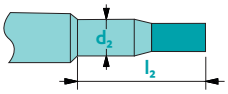
pas=0.8xd_1 ap=l_1 max.

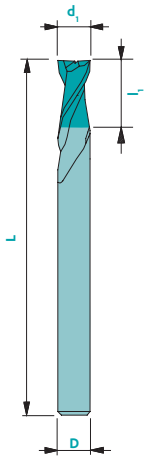
ae= $\frac{d_1^2}{4xAp}$

9020

EXPERT end mill for composite materials

Upon request





Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	-	-	-	-
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	-	-	-	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	-	-	-	-
Titanium	-	-	-	-	-
Composite	250	300	-	■	NEO (FC)

not adapted - adapted □ highly adapted ■

Tolerances

$d_1 \leq 1$ mm ▶ 0/-0.01
$d_1 > 1$ mm ▶ 0/-0.02
$d_1 = D$ ▶ d_1: e8

D: h5

Available coated

ap=0.25xd$_1$

ap=l$_1$ max.

$ae = \frac{d_1^2}{4xAp}$

Art. n°	d_1	l_1	D	L	Z	Price NEO (FC)*
9020d0.50	0.5	1	3	38	2	
9020d1.00	1.0	2	3	38	2	
9020d2.00	2.0	4	3	38	2	
9020d3.00	3.0	6	3	38	2	
9020d6.00	6.0	12	6	51	3	

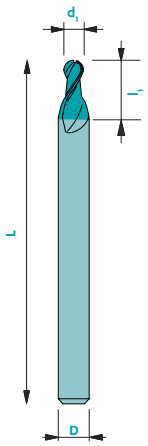
* Prices for coatings: contact us!
To order a coated tool, add the 2-letter coating code to the article number

EXPERT end mill with ball end for composite materials

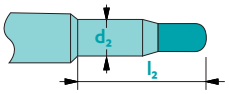
9120

Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	-	-	-	-
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	-	-	-	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	-	-	-	-
Titanium	-	-	-	-	-
Composite	250	300	-	■	NEO (FC)

not adapted - adapted □ highly adapted ■



Upon request



Tolerances

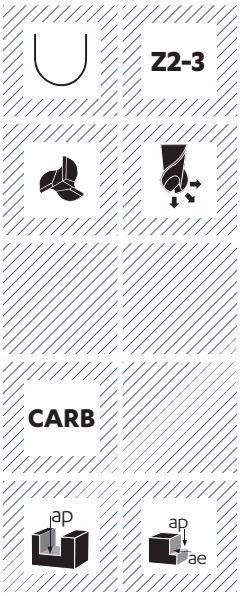
$d_1 \leq 1$ mm ▶ 0/-0.01
$d_1 > 1$ mm ▶ 0/-0.02
$d_1 = D$ ▶ d_1: e8

◠ 0/-0.01
D: h5

Art. n°	d_1	l_1	D	L	Z	Price NEO (FC)*
9120d0.50	0.5	1	3	38	2	
9120d1.00	1.0	2	3	38	2	
9120d2.00	2.0	4	3	38	2	
9120d3.00	3.0	6	3	38	2	
9120d6.00	6.0	12	6	51	3	

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

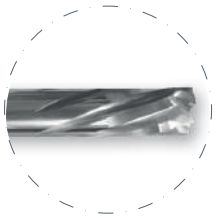
Available coated



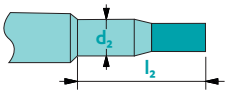
$ap=0.25xd_1$ $ap=l_1$ max.

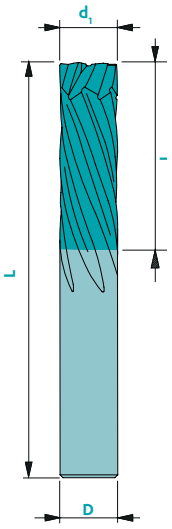
$ae=\frac{d_1^2}{4xAp}$

9530 EXPERT end mill with double helix for composite materials



Upon request





Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	-	-	-	-
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	-	-	-	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	-	-	-	-
Titanium	-	-	-	-	-
Composite	250	300	-	■	NEO (FC)

not adapted - adapted □ highly adapted ■

Tolerances

$d_1 \leq 1$ mm ▶ 0/-0.01
$d_1 > 1$ mm ▶ 0/-0.02
$d_1 = D$ ▶ d_1: e8

D: h5

Available coated (see page 300)

Z6

CARB

ap=0.25xd$_1$ ap=l$_1$ max.

ae= $\frac{d_1^2}{4xAp}$

Art. n°	d_1	l_1	D	L	Z	Price NEO (FC)*
9530d6.00	6.0	18	6	51	6	
9530d8.00	8.0	24	8	61	6	
9530d10.00	10.0	30	10	72	6	
9530d12.00	12.0	36	12	83	6	

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

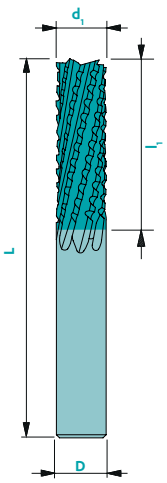
EXPERT end mill with crossed teeth for composite materials

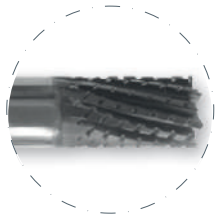
X

9630

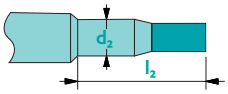
Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating♦
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	-	-	-	-
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	-	-	-	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	-	-	-	-
Titanium	-	-	-	-	-
Composite	250	300	-	■	NEO (FC)

not adapted - adapted □ highly adapted ■





Upon request



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

Art. n°	d_1	l_1	D	L	Z	Price NEO (FC)♦
9630d3.00FC	3.0	12	3	38	7	
9630d4.00FC	4.0	16	4	38	7	
9630d6.00FC	6.0	18	6	51	8	
9630d8.00FC	8.0	24	8	61	10	
9630d10.00FC	10.0	30	10	72	12	
9630d12.00FC	12.0	36	12	83	14	

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

Available coated

Z7-14

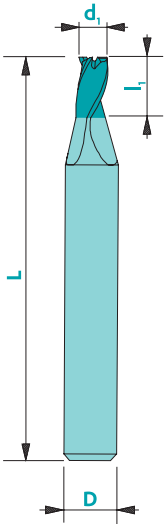
CARB

$ap=0.25xd_1$ $ap=l_1$ max.

$ae=\frac{d_1^2}{4xAp}$

1520C01

Ceramic end mill Z3 l_1=2xd_1 EXPERT gold



Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	-	-	-	-
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	150-500	-	■	-	-
Brass - Bronze	250	-	■	-	-
Aluminium	100-200	-	■	-	-
Gold - Silver	200	-	■	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	-	-	-	-
Titanium	-	-	-	-	-
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■

Tolerances $d_1 \leq 1$ mm ▶ 0/-0.01 D: h5
$d_1 > 1$ mm ▶ 0/-0.02

Available uncoated

Z3

λ 30°

γ 8-10°

C01

ap

ap

ae

ap=0.25xd_1

ap=l_1 max.

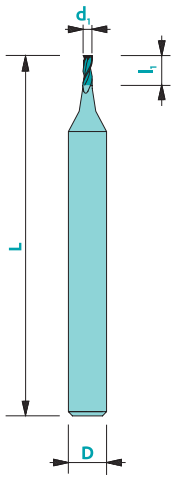
ae= $\frac{d_1^2}{4xAp}$

Art. n°	d_1	l_1	D	L	Uncoat. Price
1520C01d0.50	0.50	1.00	3	38	
1520C01d0.80	0.80	1.60	3	38	
1520C01d1.00	1.00	2.00	3	38	
1520C01d1.50	1.50	3.00	3	38	
1520C01d2.00	2.00	4.00	3	38	
1520C01d3.00	3.00	5.00	6	51	

Ceramic end mill
EXPERT brass

Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	-	-	-	-
Hardened steel					
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	150-500	-	■	-	-
Aluminium	-	-	-	-	-
Gold - Silver	100-200	-	■	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	-	-	-	-
Titanium					
Composite	-	-	-	-	-

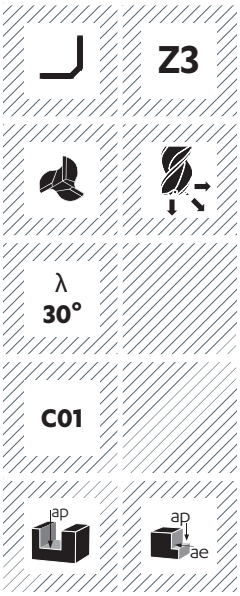
not adapted - adapted □ highly adapted ■



Tolerances $d_1 \leq 1$ mm ▶ 0/-0.01 D: h5
$d_1 > 1$ mm ▶ 0/-0.02

Art. n°	d_1	l_1	D	L	Uncoat. Price
1820C01d0.50	0.50	1.00	4	38	
1820C01d0.80	0.80	1.60	4	38	
1820C01d1.00	1.00	2.00	4	38	
1820C01d1.50	1.50	3.00	4	38	
1820C01d2.00	2.00	4.00	4	38	
1820C01d3.00	3.00	5.00	4	38	

Available uncoated



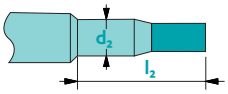
$ap = 0.25 \times d_1$ $ap = l_1$ max.

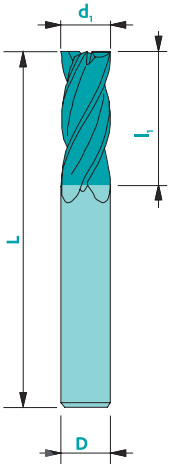
$ae = \frac{d_1^2}{4 \times Ap}$

1620F

End mill for superfine finishing

Upon request





Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating♦
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	100	-	■	Tisi (BQ)
Hardened steel					
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	-	-	-	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome					
Titanium	-	60	-	■	Tisi (BQ)
Composite					

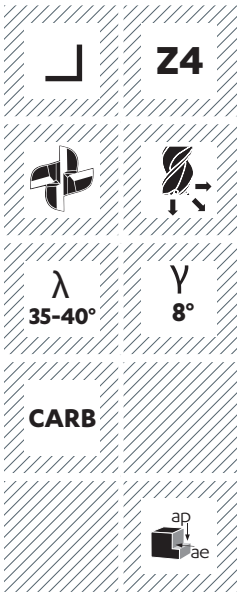
not adapted - adapted □ highly adapted ■

Tolerances

$d_1 \leq 1$ mm ▶ 0/-0.01
$d_1 > 1$ mm ▶ 0/-0.02
$d_1 = D$ ▶ d_1: e8

D: h5

Available coated only



$ap = l_1$ max.

$ae = \frac{d_1^2}{4 \times Ap}$

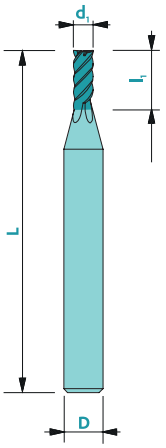
Art. n°	d_1	l_1	D	L	Price Tisi (BQ)♦
1620Fd2.00BQ	2.0	4	6	51	
1620Fd3.00BQ	3.0	6	6	51	
1620Fd4.00BQ	4.0	8	6	51	
1620Fd5.00BQ	5.0	10	6	51	
1620Fd6.00BQ	6.0	12	6	51	
1620Fd8.00BQ	8.0	16	8	61	
1620Fd10.00BQ	10.0	20	10	72	
1620Fd12.00BQ	12.0	24	12	83	

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

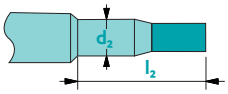
EXPERT end mill for hard materials

Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	-	-	-	-
Hardened steel	-	80	-	■	Sumo (KO)
Cast iron	50	170	-	■	Tisi (BQ)
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	-	-	-	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome					
Titanium	-	-	-	-	-
Composite					

not adapted - adapted □ highly adapted ■



Upon request



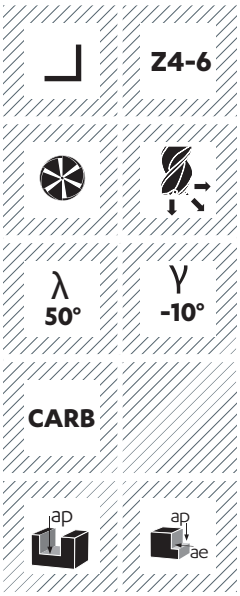
Tolerances

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

Art. n°	d_1	l_1	D	L	Z	Price Sumo (KO)*
3300d1.0	1.0	3.0	6	57	4	
3300d1.1	1.1	3.0	6	57	4	
3300d1.2	1.2	3.0	6	57	4	
3300d1.3	1.3	4.0	6	57	4	
3300d1.4	1.4	4.0	6	57	4	
3300d1.5	1.5	4.0	6	57	4	
3300d1.6	1.6	4.0	6	57	4	
3300d1.7	1.7	4.0	6	57	4	
3300d1.8	1.8	5.0	6	57	4	
3300d1.9	1.9	5.0	6	57	4	
3300d2.0	2.0	5.0	6	57	4	
3300d2.1	2.1	5.0	6	57	4	
3300d2.2	2.2	5.0	6	57	4	
3300d2.3	2.3	6.0	6	57	4	

Art. n°	d_1	l_1	D	L	Z	Sumo (KO)*
3300d2.4	2.4	6.0	6	57	4	
3300d2.5	2.5	6.0	6	57	4	
3300d2.6	2.6	6.0	6	57	4	
3300d2.7	2.7	7.0	6	57	4	
3300d2.8	2.8	7.0	6	57	4	
3300d2.9	2.9	8.0	6	57	4	
3300d3.0	3.0	8.0	6	57	4	
3300d3.5	3.5	9.0	6	57	4	
3300d4.0	4.0	11.0	6	57	4	
3300d5.0	5.0	13.0	6	57	4	
3300d6.0	6.0	16.0	6	57	6	
3300d8.0	8.0	20.0	8	63	6	
3300d10.0	10.0	23.0	10	72	6	
3300d12.0	12.0	26.0	12	83	6	

Available coated only



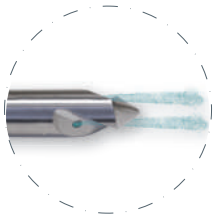
$ap = 0.25 \times d_1$ $ap = l_1$ max.

$ae = \frac{d_1^2}{4 \times Ap}$

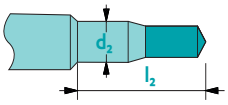
* Prices for coatings: contact us!
To order a coated tool, add the 2-letter coating code to the article number

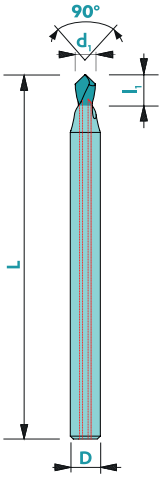
337H

NC Center drill 90° with internal coolant



Upon request



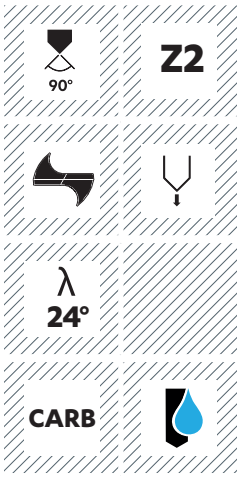


Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating♦
Steel < 700 N/mm²	90	80	◘	■	Tisi (BQ)
Steel > 700 N/mm²	-	70	-	■	Tisi (BQ)
Stainless steel	-	40	-	■	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	60	70	◘	■	Tisi (BQ)
Copper	80	100	◘	■	Solo (DA)
Brass - Bronze	80	100	■	■	Solo (DA)
Aluminium	100	120	◘	■	Solo (DA)
Gold - Silver	80	100	■	■	Solo (DA)
Platinum - Palladium	-	20	-	◘	NEO (FC)
Superalloys	-	40	-	■	Tisi (BQ)
Cobalt - chrome	-	-	-	-	-
Titanium	40	50	◘	■	Tisi (BQ)
Composite	-	-	-	-	-

not adapted - adapted ◘ highly adapted ■

Tolerances
d_1 : ±0.01
d_1 = D ▶ d_1 : h5
D : h5

Available uncoated or coated



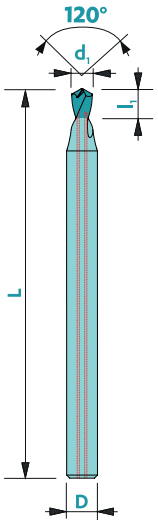
Art. n°	d_1	l_1	D	L	Uncoat. Price
337Hd0.50	0.50	0.75	3.0	38	
337Hd0.80	0.80	1.20	3.0	38	
337Hd1.00	1.00	1.50	3.0	38	
337Hd1.50	1.50	2.25	3.0	38	
337Hd2.00	2.00	3.00	3.0	38	
337Hd2.50	2.50	3.75	3.0	38	
337Hd3.00	3.00	4.50	3.0	38	
337Hd4.00	4.00	6.00	6.0	50	
337Hd6.00	6.00	9.00	6.0	50	

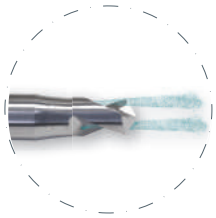
♦ Prices for coatings: contact us!
To order a coated tool, add the 2-letter coating code to the article number

NC Center drill 120° with internal coolant

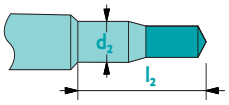
Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	90	80	◻	■	Tisi (BQ)
Steel > 700 N/mm²	-	70	-	■	Tisi (BQ)
Stainless steel	-	40	-	■	Tisi (BQ)
Hardened steel	-	-	-	-	-
Cast iron	60	70	◻	■	Tisi (BQ)
Copper	80	100	◻	■	Solo (DA)
Brass - Bronze	80	100	■	■	Solo (DA)
Aluminium	100	120	◻	■	Solo (DA)
Gold - Silver	80	100	■	■	Solo (DA)
Platinum - Palladium	-	20	-	◻	NEO (FC)
Superalloys	-	40	-	■	Tisi (BQ)
Cobalt - chrome	-	-	-	-	-
Titanium	40	50	◻	■	Tisi (BQ)
Composite	-	-	-	-	-

not adapted - adapted ◻ highly adapted ■





Upon request

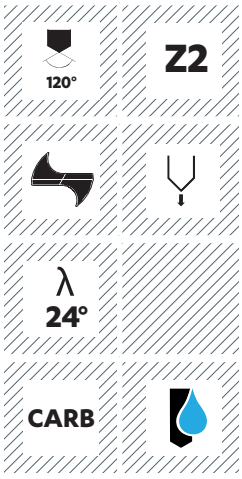


Tolerances
d_1 : ±0.01
d_1 = D ▶ d_1 : h5
D : h5

Art. n°	d_1	l_1	D	L	Uncoat. Price
337-2Hd0.50	0.50	0.75	3.0	38	
337-2Hd0.80	0.80	1.20	3.0	38	
337-2Hd1.00	1.00	1.50	3.0	38	
337-2Hd1.50	1.50	2.25	3.0	38	
337-2Hd2.00	2.00	3.00	3.0	38	
337-2Hd2.50	2.50	3.75	3.0	38	
337-2Hd3.00	3.00	4.50	3.0	38	
337-2Hd4.00	4.00	6.00	6.0	50	
337-2Hd6.00	6.00	9.00	6.0	50	

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

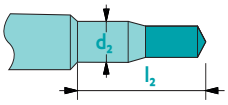
Available uncoated or coated

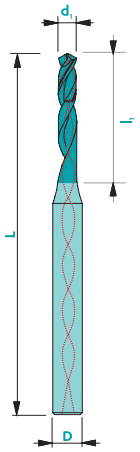


374H

EXPERT drill for stainless steel - with internal coolant

Upon request





Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	45	-	■	Nemo (NM)
Hardened steel	-	-	-	-	-
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	-	-	-	-	-
Aluminium	-	-	-	-	-
Gold - Silver	-	-	-	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome	-	-	-	-	-
Titanium	-	-	-	-	-
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■

Pre-centering with center drill ref. 337-2 recommended for diameters <1.00 mm

Tolerances d_1: -0.002/-0.004
D : h5

Available coated only

135°

Z2

CARB

Art. n°	d_1	l_1	D	L	Price Nemo (NM)*
374d0.70	0.70	8	3	51	
374d0.71	0.71	8	3	51	
374d0.72	0.72	8	3	51	
374d0.73	0.73	8	3	51	
374d0.74	0.74	8	3	51	
374d0.75	0.75	8	3	51	
374d0.76	0.76	8	3	51	
374d0.77	0.77	8	3	51	
374d0.78	0.78	8	3	51	
374d0.79	0.79	8	3	51	
374d0.80	0.80	8	3	51	
374d0.81	0.81	8	3	51	
374d0.82	0.82	8	3	51	
374d0.83	0.83	8	3	51	
374d0.84	0.84	8	3	51	
374d0.85	0.85	8	3	51	
374d0.86	0.86	8	3	51	
374d0.87	0.87	8	3	51	
374d0.88	0.88	8	3	51	
374d0.89	0.89	8	3	51	
374d0.90	0.90	10	3	51	
374d0.91	0.91	10	3	51	
374d0.92	0.92	10	3	51	
374d0.93	0.93	10	3	51	
374d0.94	0.94	10	3	51	
374d0.95	0.95	10	3	51	
374d0.96	0.96	10	3	51	

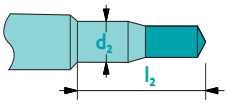
Art. n°	d_1	l_1	D	L	Price Nemo (NM)*
374d0.97	0.97	10	3	51	
374d0.98	0.98	10	3	51	
374d0.99	0.99	10	3	51	
374d1.00	1.00	12	3	51	
374d1.01	1.01	12	3	51	
374d1.02	1.02	12	3	51	
374d1.03	1.03	12	3	51	
374d1.04	1.04	12	3	51	
374d1.05	1.05	12	3	51	
374d1.06	1.06	12	3	51	
374d1.07	1.07	12	3	51	
374d1.08	1.08	12	3	51	
374d1.09	1.09	12	3	51	
374d1.10	1.10	12	3	51	
374d1.11	1.11	12	3	51	
374d1.12	1.12	12	3	51	
374d1.13	1.13	12	3	51	
374d1.14	1.14	12	3	51	
374d1.15	1.15	12	3	51	
374d1.16	1.16	12	3	51	
374d1.17	1.17	12	3	51	
374d1.18	1.18	12	3	51	
374d1.19	1.19	12	3	51	
374d1.20	1.20	14	3	51	
374d1.21	1.21	14	3	51	
374d1.22	1.22	14	3	51	
374d1.23	1.23	14	3	51	

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

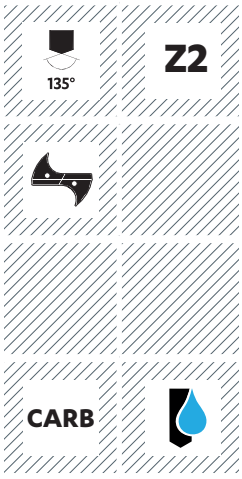
EXPERT drill for stainless steel - with internal coolant

Art. n°	d_1	l_1	D	L	Price Nemo (NM)*
374d1.24	1.24	14	3	51	
374d1.25	1.25	14	3	51	
374d1.26	1.26	14	3	51	
374d1.27	1.27	14	3	51	
374d1.28	1.28	14	3	51	
374d1.29	1.29	14	3	51	
374d1.30	1.30	14	3	51	
374d1.31	1.31	14	3	51	
374d1.32	1.32	14	3	51	
374d1.33	1.33	14	3	51	
374d1.34	1.34	14	3	51	
374d1.35	1.35	14	3	51	
374d1.36	1.36	14	3	51	
374d1.37	1.37	14	3	51	
374d1.38	1.38	14	3	51	
374d1.39	1.39	14	3	51	
374d1.40	1.40	14	3	51	
374d1.41	1.41	14	3	51	
374d1.42	1.42	14	3	51	
374d1.43	1.43	14	3	51	
374d1.44	1.44	14	3	51	
374d1.45	1.45	14	3	51	
374d1.46	1.46	14	3	51	
374d1.47	1.47	14	3	51	
374d1.48	1.48	14	3	51	
374d1.49	1.49	14	3	51	
374d1.50	1.50	14	3	51	
374d1.51	1.51	14	3	51	
374d1.52	1.52	14	3	51	
374d1.53	1.53	14	3	51	
374d1.54	1.54	14	3	51	
374d1.55	1.55	14	3	51	
374d1.56	1.56	14	3	51	
374d1.57	1.57	14	3	51	
374d1.58	1.58	14	3	51	
374d1.59	1.59	14	3	51	
374d1.60	1.60	14	3	51	
374d1.61	1.61	14	3	51	
374d1.62	1.62	14	3	51	
374d1.63	1.63	14	3	51	
374d1.64	1.64	14	3	51	
374d1.65	1.65	14	3	51	
374d1.66	1.66	14	3	51	
374d1.67	1.67	14	3	51	
374d1.68	1.68	14	3	51	
374d1.69	1.69	14	3	51	
374d1.70	1.70	18	3	51	
374d1.71	1.71	18	3	51	
374d1.72	1.72	18	3	51	
374d1.73	1.73	18	3	51	
374d1.74	1.74	18	3	51	
374d1.75	1.75	18	3	51	
374d1.76	1.76	18	3	51	
374d1.77	1.77	18	3	51	
374d1.78	1.78	18	3	51	
374d1.79	1.79	18	3	51	
374d1.80	1.80	18	3	51	
374d1.81	1.81	18	3	51	
374d1.82	1.82	18	3	51	
374d1.83	1.83	18	3	51	
374d1.84	1.84	18	3	51	
374d1.85	1.85	18	3	51	
374d1.86	1.86	18	3	51	
374d1.87	1.87	18	3	51	
374d1.88	1.88	18	3	51	
374d1.89	1.89	18	3	51	
374d1.90	1.90	18	3	51	
374d1.91	1.91	18	3	51	
374d1.92	1.92	18	3	51	
374d1.93	1.93	18	3	51	
374d1.94	1.94	18	3	51	
374d1.95	1.95	18	3	51	
374d1.96	1.96	18	3	51	
374d1.97	1.97	18	3	51	
374d1.98	1.98	18	3	51	
374d1.99	1.99	18	3	51	
374d2.00	2.00	18	3	51	
374d2.05	2.05	18	3	51	
374d2.10	2.10	20	4	60	
374d2.20	2.20	20	4	60	
374d2.30	2.30	20	4	60	
374d2.40	2.40	20	4	60	
374d2.50	2.50	20	4	60	
374d2.60	2.60	20	4	60	
374d2.70	2.70	20	4	60	
374d2.80	2.80	20	4	60	
374d2.90	2.90	20	4	60	
374d3.00	3.00	20	4	60	
374d3.50	3.50	20	4	60	
374d4.00	4.00	20	4	60	

Upon request



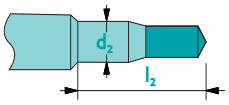
Available coated only

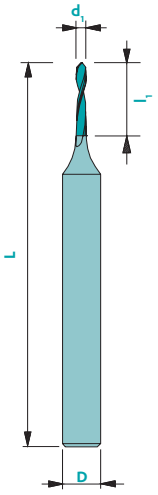


* Prices for coatings: contact us!
To order a coated tool, add the 2-letter coating code to the article number

Expert drill for brass

Upon request





Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	-	-	-	-	-
Steel > 700 N/mm²	-	-	-	-	-
Stainless steel	-	-	-	-	-
Hardened steel					
Cast iron	-	-	-	-	-
Copper	-	-	-	-	-
Brass - Bronze	115	130	■	■	Solo (DA)
Aluminium	-	-	-	-	-
Gold - Silver	-	-	-	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	-	-	-	-	-
Cobalt - chrome					
Titanium					
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■

Tolerances
d_1: -0.002/-0.004
l_1 : 0.1/-0
D : h5

Available uncoated or coated

90°

Z2

λ Variable

CARB

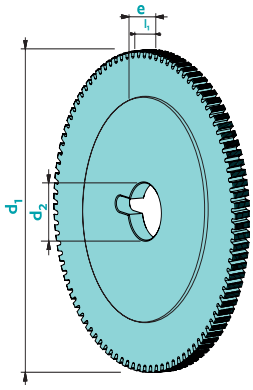
Art. n°	d_1	l_1	D	L	Uncoat. Price
375d#.##	0.20-0.29	1.0	3	38	
375d#.##	0.30-0.34	1.5	3	38	
375d#.##	0.35-0.39	2.0	3	38	
375d#.##	0.40-0.49	3.0	3	38	
375d#.##	0.50-0.79	4.0	3	38	
375d#.##	0.80-1.19	6.0	3	38	
375d#.##	1.20-1.50	8.0	3	38	

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

Thread whirling cutter

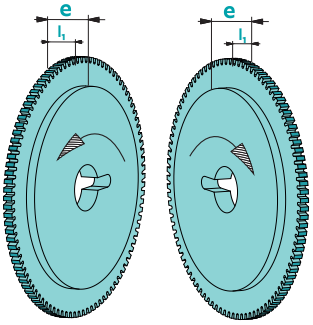
Material	Vc uncoated [m/min]	Vc coated [m/min]	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm²	100	-	■	-	-
Steel > 700 N/mm²	80	-	■	-	-
Stainless steel	70	-	■	-	-
Hardened steel	-	-	-	-	-
Cast iron	90	-	■	-	-
Copper	170	-	■	-	-
Brass - Bronze	160	-	■	-	-
Aluminium	200	-	■	-	-
Gold - Silver	160		■	-	-
Platinum - Palladium	-	-	-	-	-
Superalloys	50	-	■	-	-
Cobalt - chrome	-	-	-	-	-
Titanium	60	-	■	-	-
Composite	-	-	-	-	-

not adapted - adapted □ highly adapted ■



Tolerances
d_1: -0.002/-0.004
l_1 : 0.1/-0
D : h5

Art. n°	Ø nominal	Pitch	d_1	e	l_1	d_2	Z	Uncoat. Price
REF S0.30d45	S0.30	0.080	45	3	0.80	8	96	
REF S0.35d45	S0.35	0.090	45	3	0.90	8	96	
REF S0.40d45	S0.40	0.100	45	3	1.00	8	96	
REF S0.50d45	S0.50	0.125	45	3	1.25	8	96	
REF S0.60d45	S0.60	0.150	45	3	1.50	8	96	
REF S0.70d45	S0.70	0.175	45	3	1.75	8	96	
REF S0.80d45	S0.80	0.200	45	3	2.00	8	96	
REF S0.90d45	S0.90	0.225	45	3	2.25	8	96	
REF S1.00d45	S1.00	0.250	45	3	2.50	8	96	
REF S1.20d45	S1.20	0.250	45	3	2.50	8	96	
REF S1.40d45	S1.40	0.300	45	3	3.00	8	96	
REF S0.30d40	S0.30	0.080	40	5	0.80	10	84	
REF S0.35d40	S0.35	0.090	40	5	0.90	10	84	
REF S0.40d40	S0.40	0.100	40	5	1.00	10	84	
REF S0.50d40	S0.50	0.125	40	5	1.25	10	84	
REF S0.60d40	S0.60	0.150	40	5	1.50	10	84	
REF S0.70d40	S0.70	0.175	40	5	1.75	10	84	
REF S0.80d40	S0.80	0.200	40	5	2.00	10	84	
REF S0.90d40	S0.90	0.225	40	5	2.25	10	84	
REF S1.00d40	S1.00	0.250	40	5	2.50	10	84	
REF S1.20d40	S1.20	0.250	40	5	2.50	10	84	
REF S1.40d40	S1.40	0.300	40	5	3.00	10	84	



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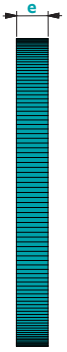

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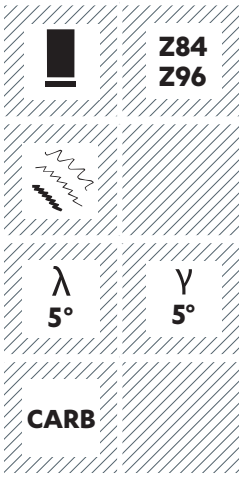
Available uncoated



Option : Reverso

Since 1948

Louis BELET SA is a family business of about 150 employees. The company is run by the two grandchildren of the founder, Mrs Roxane Piquerez and Mr Arnaud Maître.

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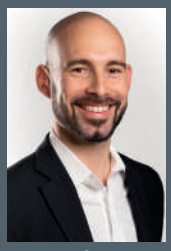

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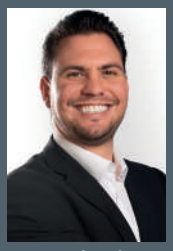

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09.2023