

ENGRAVING MILL with internal coolant

**Increased durability and perfect surface
finish thanks to thru coolant**



**REF 119-3H :
flat tip**

**REF 119-3RH :
radius on tip**



119-3H 119-3RH

Engraving mill with internal coolant - $\frac{3}{4}$



Material	n [rpm]	Ap	Uncoated	Coated	Rec. Coating*
Steel < 700 N/mm ²	25 - 40'000	0.05 - 0.40	■	■	Tisi (BQ)
Steel > 700 N/mm ²	20 - 40'000	0.05 - 0.30	-	■	Tisi (BQ)
Stainless steel	20 - 30'000	0.05 - 0.30	-	■	Tisi (BQ)
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	-	-	■	■	-
Titanium	25 - 40'000	0.05 - 0.40	■	■	RICO (ZB)

not adapted - adapted ■ highly adapted ■

Tolerances

119-3H:

d_t: +/- 0.01

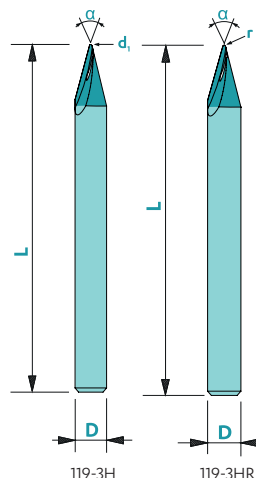
D: h5

119-3RH:

r: +/- 0.005

D: h5

0.01



REF 119-3H - flat tip

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 _t **	D	L
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

REF 119-3RH - radius on tip

Article number: 119-3RH##r##.##

Example: End mill ref. 119-3RH with 25° angle and radius 0.05 mm: 119-3RH25r0.05

α^*	r**	D	L
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

Available
uncoated or coated

0.02-0.30

0.02-0.30



λ
0°

CARB



If $\alpha < 30^\circ$, a double
cone applies

* Prices for coatings: contact us!

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

LOUIS BELET

swiss made