

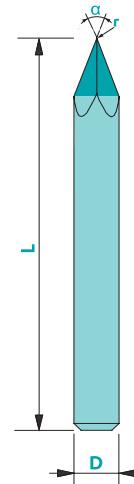
Engraving mill 4 facets - radius on tip

119-5R

Material	n [tr/min]	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
r: +/- 0.005
D: h5



Article number : 119-5Ra##r#.##
Example: End mill ref. 119-5R with 25° angle and radius 0.05 mm: 119-5Ra25r0.05

α^*	r^{**}	D	L	Uncoat.	Nemo*
30-50°	0.05-0.09	3	33	▲	▲
30-50°	0.10-0.30	3	33	▲	▲
60-140°	0.02-0.09	3	33	▲	▲
60-140°	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 other coatings: contact us!

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

Available
uncoated or coated
(see page 308)



λ
0°

CARB