

Series 191

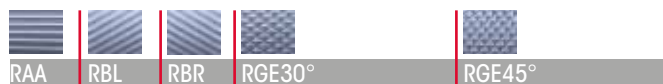


Tool holder Designation

Product series **191**
 Shank size Ø 12 **12M**
 Modular **150404**
 State of development **B**
 Design for knurling wheels
 15 x 4 x 4 (Ø x width x bore)

Knurling profiles on DIN 82 workpiece:

Feed knurling



Selection of knurling wheels:

3 x AA	3 x BR	3 x BL	1 x BL30° / 2 x BR30° //	1 x BL45° / 2 x BR45° //
			1 x BR30° / 2 x BL30°	1 x BR45° / 2 x BL45°

Product features:

- Easy and precise fine adjustment
- Modular exchangeable knurl holder jaws for conversion to knurling up to a shoulder (192) or a cut knurling tool (291)
- Carbide pins

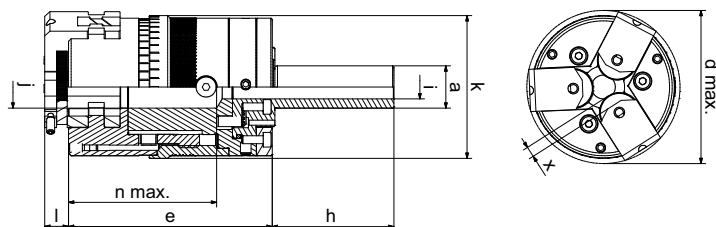
TOOL VERSIONS:

Order no.	Tool holder Designation	Working area Ø [mm]	Dimension [mm]										Knurling wheels (Ø x b x b) [mm]
			a Ø	d max. Ø	e	h	i Ø	j Ø	k Ø	l	n max.	x Ø	
31001902	191-12M150404-B	2-13.5	12	57	78	45	9	16	54	9	56	1.5	10 x 4 x 4
		3-8.5	12	57	78	45	9	16	54	9	56	4	15 x 4 x 4

Other variants available on request

d = for max. workpiece Ø

n = max. workpiece length (with Ø)



JAWS:

Order no.	Order no.
Form knurling up to a shoulder	Cut knurling
21BHR1128	21BHR1127

