



Introducing Our New Monoblock Diamond Burnishing Tools

We're excited to announce the launch of our Monoblock Diamond Burnishing Tools, available in two sizes: 12 mm (1/2") and 16 mm (5/8").



Why Choose Diamond Burnishing?

Diamond burnishing provides exceptional surface finishes that rival grinding, all while utilizing a turning machine. Many of our customers have reported significant cost savings by adopting diamond burnishing to eliminate post-processing steps.

With diamond burnishing, you achieve not only a brilliant, mirror-like finish ($R_a < 0.4 \mu\text{m}$ or $16 \mu\text{inch}$) but also enhanced hardness, reduced friction, and increased corrosion resistance. This process notably elevates the functionality and durability of your machined components, making them better suited for end-use applications. Most metallic materials can benefit from burnishing, improving both their appearance and performance.

Expanding Our Portfolio

To maintain our leadership in the market, MAQ is excited to expand our diamond burnishing lineup with four new products. These tools cover diameters of 12 mm (1/2 inch) and 16 mm (5/8 inch) for hole sizes of 16 mm (5/8 inch) and 20 mm (3/4 inch), respectively.

Standard: Metric (with fixed head)												
Part number	Type	Workable length ^b (mm)	D _{min} (mm)	L _{min} ^a (mm)	L _c (mm)	WF ^c (mm)	PT	Master nib	Insert screw	Material		
301355	STMD M12-180 DB R 061002	72-132	16	180	36	8	G1/8	DB 061002	IS M3x7	S+C ^d	0.30	
301356 ^e	STMD M16-224 DB R 061002	96-176	20	224	48	10	M12x1	DB 061002	IS M3x7	S+C ^d	0.55	

Standard: Inch (with fixed head)												
Part number	Type	Workable length ^b (inch)	D _{min} (inch)	L _{min} ^a (inch)	L _c (inch)	WF ^c (inch)	PT	Master nib	Insert screw	Material		
301357	STMD I 1/2-7.1 DB R 061002	3-5.5	0.63	7.1	1.5	0.31	G1/8	DB 061002	IS M3x7	S+C ^d	0.30	
301358 ^e	STMD I 5/8-8.8 DB R 061002	3.75-6.88	0.79	8.8	1.88	0.39	M12x1	DB 061002	IS M3x7	S+C ^d	0.55	

a – total length to the cutting point
b – measured from the cutting edge to the clamp
c – distance from cutting point to centre
d – Carbide back end joined with steel
e – Available from Nov. 2024