

SIMPLE SURFACE FINISH.





Mirror-like finishes for a fraction of the cost.

DIAMOND BURNISHING TOOLS

DBT

An economical and user-friendly tool for producing a mirror-like surface finish.



The Diamond Burnishing Tool is used in linear applications (ODs, IDs, and face surfaces).

As the part is turned, the diamond, under spring pressure, is fed across at a feed rate of 0.003" to 0.004" per revolution at a maximum of 750 SFM.

Available in inch and metric slim-line, square, offset, on-center, and boring bar styles.

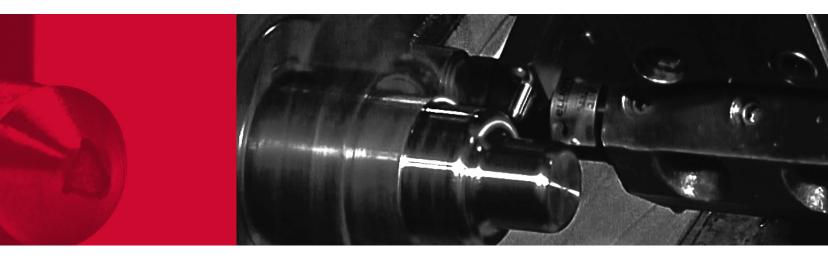
Diamond Tool Kits

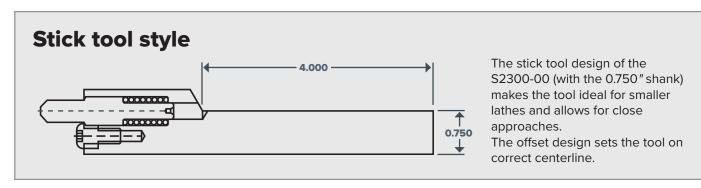
All diamond burnishing tools are also available as kits which contain: a complete tool, spare diamond stem, spring and Allen key.

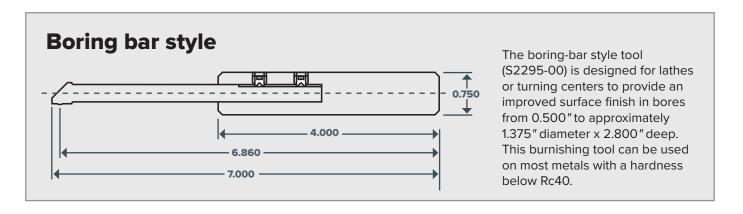
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The kit is in a plastic case that protects and ensures the life of the tool.

The kit option is the most economical to purchase, giving significant savings compared to buying the parts separately.







OUR STANDARD DIAMOND BURNISHING TOOLS:

Tool #	Description		
S2300-00	0.750" square with offset tool holder		
S2300-00M	20mm shank with offset tool holder		
S2300A00	1.000" square with offset tool holder		
S2300A00M	25mm square with offset tool holder		
S2300M00	1.000" x 25mm "square" shank with the diamond on center		
S2295-00	0.750" square shank with boring bar arm on center		

REPLACEMENT PARTS FOR DIAMOND BURNISHING TOOLS:

Complete Tool	Diamond Stem	Spring	Screw
S2300-00	S375D1	S375-4-165	P8597-2N
S2300A00	S375D1	S375-4-165	P8597-2N
S2300B00	S375D1	S375-4-165	P8597-2N
S2300M00	S375D1	S375-4-165	128Y
S2295-00	S2295D1	-	548H
S2300-00M	S375D1	S375-4-165	P8597-2N
S2300A00M	S375D1	S375-4-165	P8597-2N
S2300B00M	S375D1	S375-4-165	P8597-2N

STICK TOOL STYLE

OPERATING PROCEDURE

The stick style diamond burnishing tool is designed for use in turning machines. The tool should be mounted so that the diamond is perpendicular and on center to the surface being burnished.

PART PREPARATION:

100/120 RMS

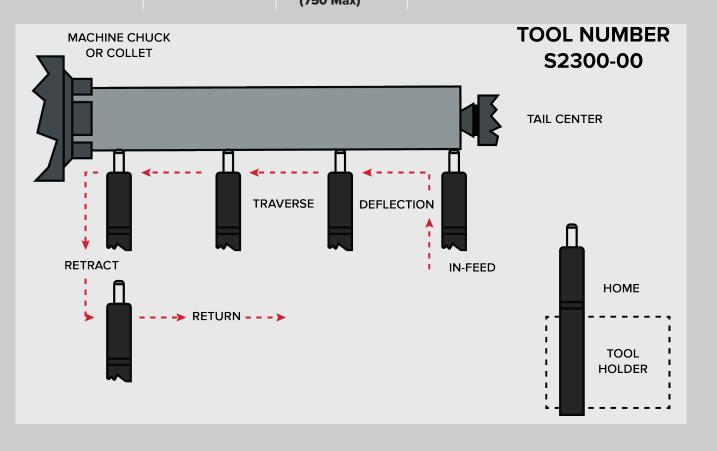
FEED RATE:

0.003"/0.004"

SPEED:

250 to 500 surface ft per min. (750 Max) COOLANT REQUIRED:

Water soluble or oil

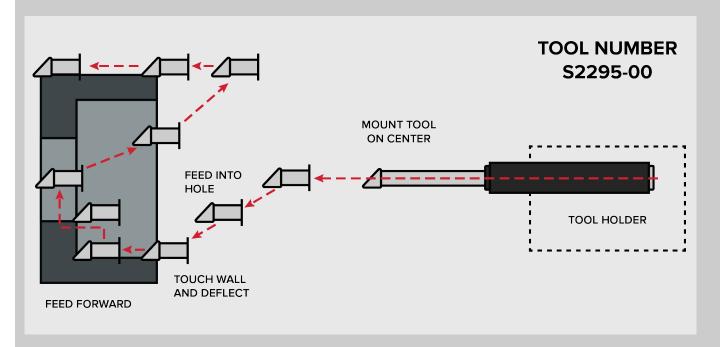


BORING BAR STYLE

OPERATING PROCEDURE

The boring-bar style diamond burnishing tool is designed for turning machines to provide an improved surface finish on a machined part.

PART FEED RATE: SPEED: COOLANT **MINIMUM HOLE MAXIMUM PREPARATION: REQUIRED: TOOL REACH: DIAMETER:** 250 to 500 100/120 RMS 0.003"/0.004" 0.500" 2.861" Water soluble surface ft per or oil min. (750 Max)



Can be used on most metals with a hardness below HRC40.

DIAMOND BURNISHING

APPLICATION

Automate your hand polishing operations...



THE JOB

Part Material: 4140

Diameter: 2.500"

Length: 1.250"

Stock Allowance: 0.0002" - 0.0005"

Pre Burnish Surface Finish:

80μR_a

THE SOLUTION

Tool Used: \$2300-00

Speed: 400 SFM

Feed: 0.004 IPR

THE RESULTS



Post Burnish
Surface Finish:

 $\mathbf{2}_{\mathsf{\mu}\mathsf{R}_{\mathsf{a}}}$



Cycle Time: 30.68sec



...and get
consistent
ultra-smooth
surface finishes.