



## **Polymer Lapping Tools**

**New Product Line for Hand Applied Micro Finishing**

**Breakthrough in Surface Treatment Technology**



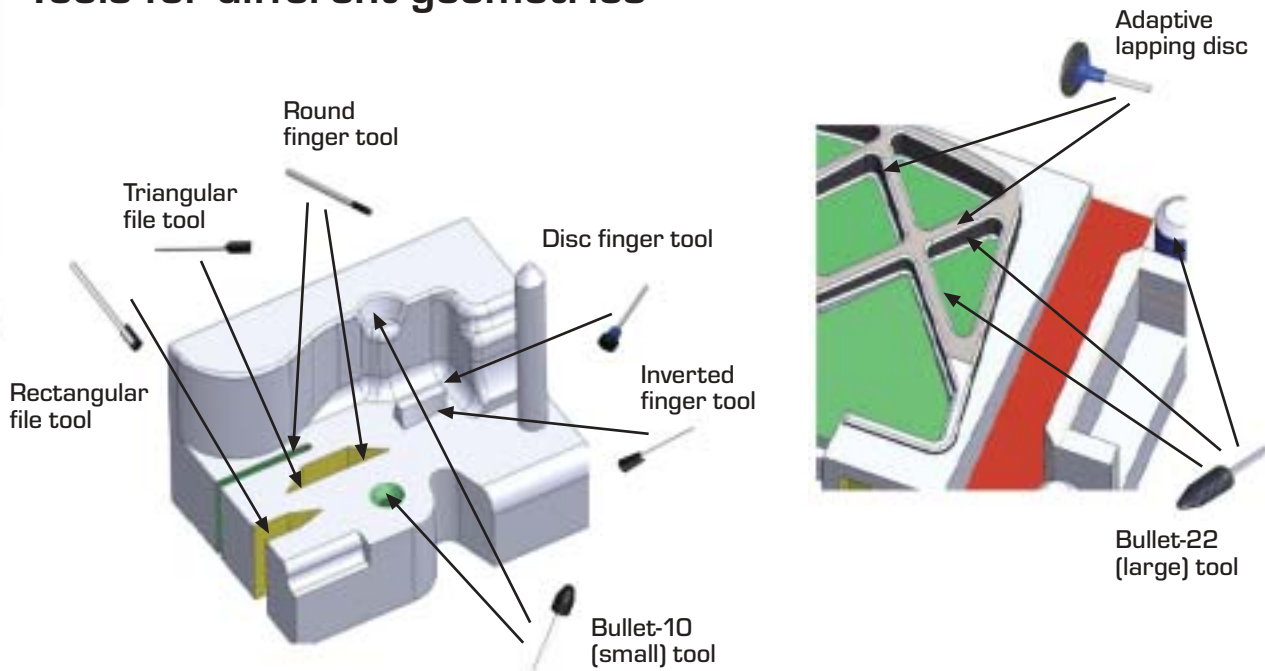
# Technology and Applications

## FriCso patented polymer lapping:

**BREAKTHROUGH TECHNOLOGY**

- Rapid surface finishing
- Unique nano abrasion mechanism with low contact pressure
- Reduction of surface roughness without changing work piece dimensions
- Easily applied by common hand tools on:
  - Stamping dies
  - Injection molds
  - Other forming dies and molds

## Tools for different geometries



## D2 steel treated with FrisCo polymer lapping tools

Before treatment



**Ra = 0.2**  
magnification x1000

After treatment



**Ra = 0.02**  
magnification x1000

# Benefits

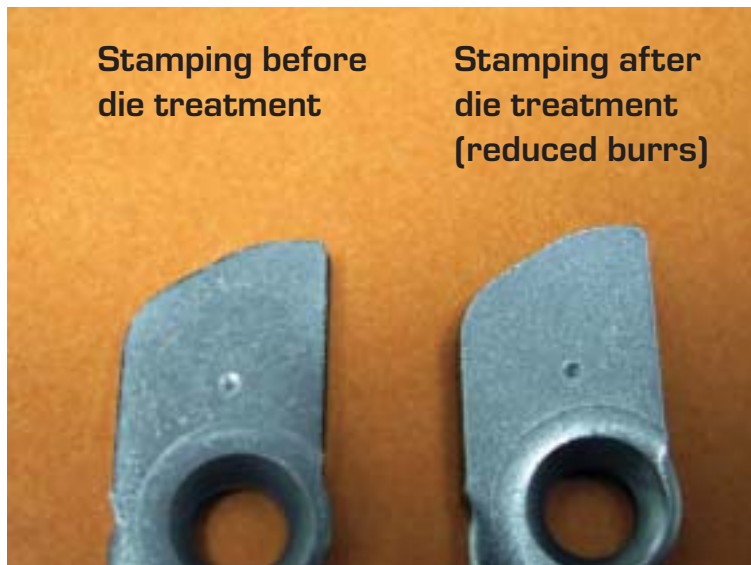
- Reduce time to optimal surface finish
- Quickly resolve formability issues
- Reduce lubrication in stamping operations
- Eliminate tumble deburring and other post-processing operations
- Extend mean time between failures (MTBF)
- Reduce man-machine down time
- Extend die or mold service life by preventive maintenance
- Reduce scrap during set-up











## Parts treated with FriCso Tools

Stamping before  
die treatment

Stamping after  
die treatment  
(reduced burrs)



## POLYMER TOOLS

Tool		Size (in.)	Usage	UPC Number
<b>Round finger tool</b>		1/8" dia x 1/2" length. Shank: 1/8" dia x 2" length	For small diameter cutting edges, small radii, and guide pins <b>Recommended RPM: 10,000 - 15,000</b>	36411
<b>Rectangular file tool</b>		3/16" dia x 1/2" length. Shank: 1/8" dia x 2" length	For small diameter cutting edges, walls, and corners (requires reciprocating air tool) <b>Recommended RPM: 10,000</b>	36412
<b>Triangular tool</b>		1/4" dia x 1/2" length. Shank: 1/8" dia x 2" length	For small diameter cutting edges, and corners (requires reciprocating air tool) <b>Recommended RPM: 10,000</b>	36413
<b>Inverted finger tool</b>		5/16" dia x 1/2" length. Shank: 1/8" dia x 2" length	For flat surfaces, and corners <b>Recommended RPM: 10,000</b>	36414
<b>Disc finger tool</b>		1/2" dia x 7/32" length. Shank: 1/8" dia x 2" length	For small areas and diameters, flat surfaces, <b>Recommended RPM: 10,000</b>	36415
<b>Bullet-10 tool</b>		3/8" dia x 5/8" length. Shank: 1/8" dia x 2" length	For small curves and radii <b>Recommended RPM: 6,000 - 10,000</b>	36416
<b>Bullet-22 tool</b>		7/8" dia x 2-1/4" length. Shank: 1/4" dia x 3-1/2" length	For large curves and radii, and heavy duty work <b>Recommended RPM: 700 - 1,200</b>	36417
<b>Adaptive lapping tool</b>		1-3/4" dia x 1/4" length. Shank: 1/4" dia x 2-1/2" length	For large flat surfaces and areas, with adaptive capabilities for various surfaces <b>Recommended RPM: 500 - 1,200</b>	36418
<b>Lapping compound (paste)</b>				
<b>Abrasive compound (600 grit) 10 cc syringe</b>		10 cc	For smooth surfaces (N4 and below) before polymer lapping	36419
<b>Abrasive compound (400 grit) 10 cc syringe</b>		10 cc	For coarse surfaces (N5 and below) before polymer lapping	36420
<b>Polymer Lapping Tool Kit</b> <b>Limited time offer</b>		8.5" length. 5.5" width. 2" height	Tool Kit including samples of all the Tools and Compounds	36410

