

Die and Mold Polishing and Maintenance- Section 4

Section 4

Typical Applications:

Molds

Plastic

Rubber

Glass

Permanent

Dies

Die Casting Heading Forming

forging Punching Stamping

Extrusion Perforating Drawing

Swaging Striking

***Both carbide and high speed steel**

Pressure blasting benefits:

- Remove heat treat scale... eliminate or reduce expensive hand finishing.
- Blend directional grind machining marks, pits, scratches and surface imperfections.
- Increase lubrication retention of working surfaces.
- Improve finish of work resulting from dies or molds... better finish on formed work... minimized burrs from cutting dies.
- Clean prior to hard chrome plating... eliminate chemical pickling.
- Increase dies life.
- Prepare surface for visual inspection for crack, flaws, Etc.

Plastic, rubber and glass molds.

- Polish delicate engraved areas without danger of "edge breakdown".
- Remove excess glass, rubber or plastic flash deposits resulting from extensive mold use
- Improve flow of material over cavities through blending of directional lines.

Die casting dies.

- Reduce break-in time through more lubricant retentive finish.
- Ease ejection of work.
- Improve finish of die casted work.

Stamping, punching, rolling, perforating and heading dies.

- Remove feather or wire edges from cutting areas... avoid metal "build up.
- Hone and strengthen edges.
- Impart non-directional finishes on relief faces to eliminate metal pick-up.

Forging dies.

- Avoid adhesion of forging to the die... eliminate break-in time.

Drawing and extrusion dies.

- Prevent "wrinkling".
- Reduce longitudinal draw marks resulting from imperfections in die surface... reduce subsequent finishing cost