

SURFACE HARDENING PROBLEMS???

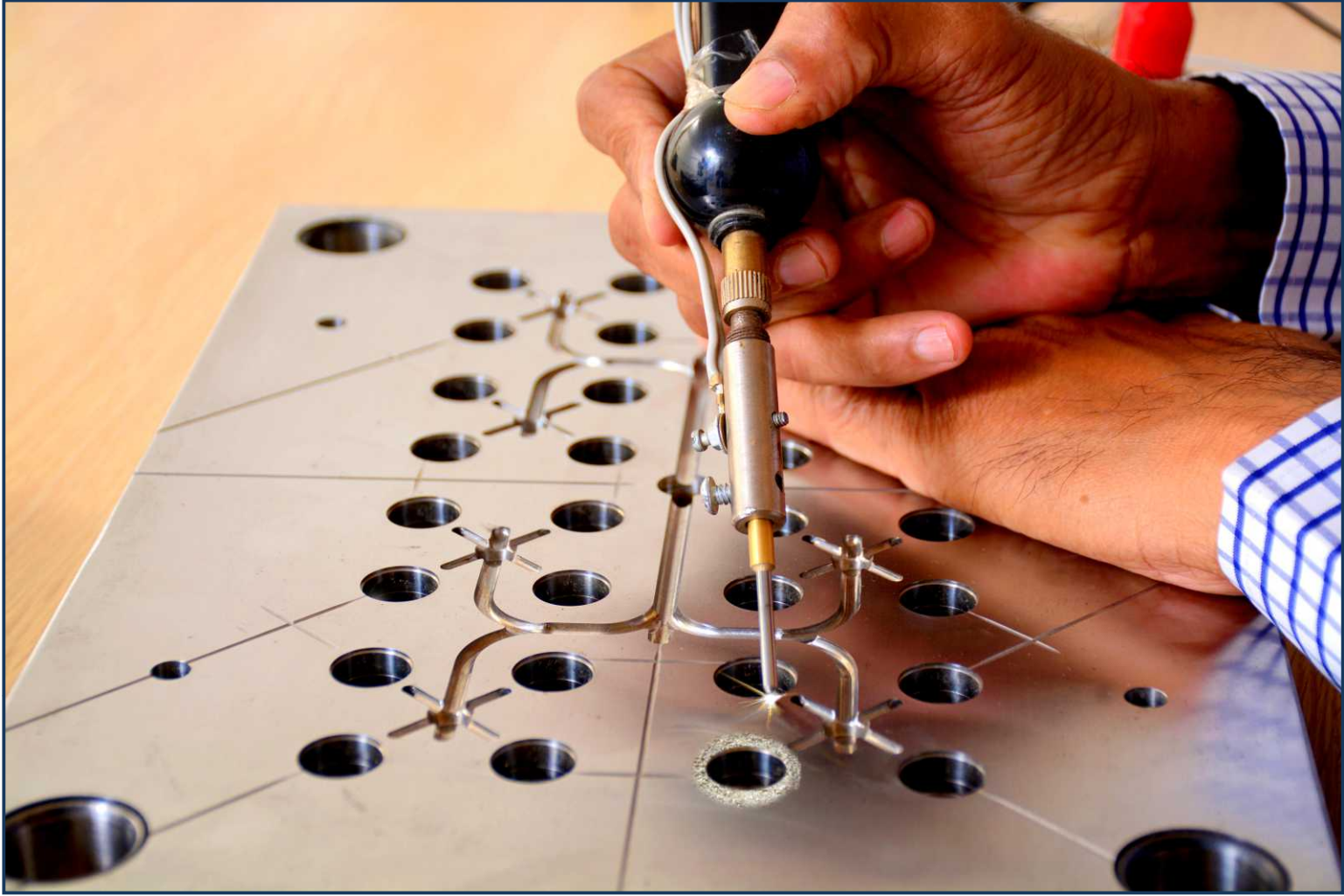
DIEMO - SURGEON 25



PORTABLE, COLD PROCESS  
SURFACE HARDENING MACHINE

# DIEMO - SURGEON 25

SURFACE HARDENING SOLUTION



Prevents wear and reduces flash in Plastic Moulds and Die Casting Dies hence increases die life

## KEY FEATURES

- ↻ Tungsten Carbide Deposition (TCD) - an economical way to increase wear and erosion resistance property of tools
- ↻ TCD process develops a carbide edge at room temperature without reducing inherent toughness of metal parts / dies
- ↻ TCD layer of 72 HRC hardness, up to 25 microns thickness
- ↻ Fused, metallurgically bonded TCD coating will withstand bend tests, thermal shocks and mechanical shocks
- ↻ Exceptionally fine grained and homogeneous coating
- ↻ Environment friendly and does not generate hazardous waste

Reamers Dies & Punches  
Cutters Broaches  
Twist Drills  
Tapping Drills Fingers for Bolts Mfg  
Threading Rolls  
Cold Forming Matrices  
Heading Punches  
Surgical Instruments

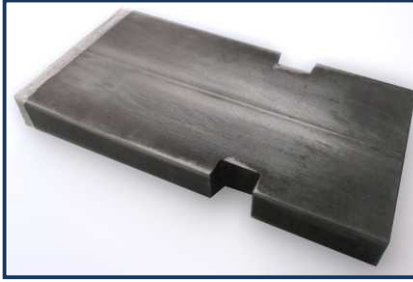
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FOR HARD SURFACING AND GALLING RESISTANCE SURFACE ON STAINLESS STEEL



**PRESS CUTTING TOOLS**

TCD process prevents punch wear and slug pull-back problems, reduces galling, extends time between sharpening.



**SURGICAL INSTRUMENTS**

To improve gripping power and surface hardness



**CIRCLE CUTTING ROLLERS**



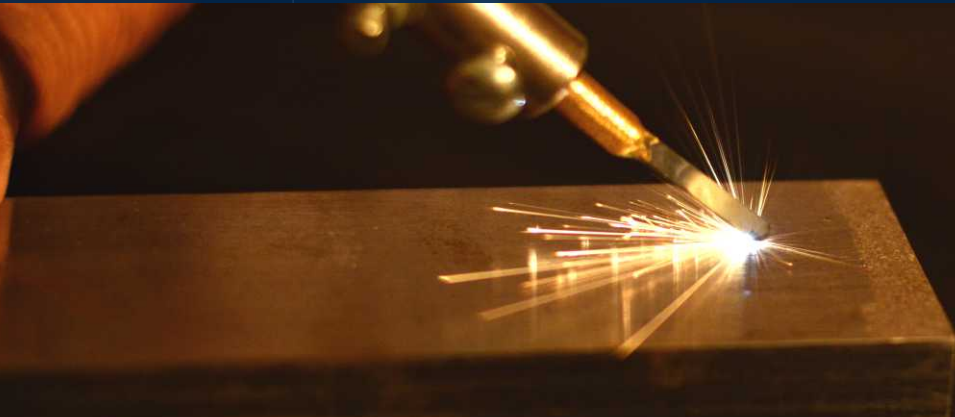
**HSS TOOLS**

**Forging Dies** are TCD processed for better hot hardness and erosion resistance property. The process generates metallurgical bond and does not flake-off.

## APPLICATIONS OF TCD COATING

- ↪ **Plastic Industries:** Moulds parting line and butting area, crushers knives, rotary knives
- ↪ **Food Industries:** Hammer mills, mixers, cutting knives, meat cutters, peeling knives etc.
- ↪ **Punching, Stamping, Forging and Extruding:** Punching and cutting dies, stops slug pull back, reduces galling, extends time between sharpening
- ↪ **Die Casting:** Restores parting line, prevents heat checking, soldering, seizing of cores, protects gates and runners, reduces surface wear on butting area
- ↪ **Surgical Instruments:** For improving gripping, surface hardening on SS metal
- ↪ **Fastener Industries:** Thread rollers, feed fingers, collets, forging dies
- ↪ **Paper Mills:** Cutting knives and shear blades, rollers, slitting knives
- ↪ **Mining Industries:** Drills, grinders, milling, hammer mill, any abrasive wear surface
- ↪ **Wood Industries:** Veneer cutting knives, jointer knives, planer knives, other knives
- ↪ **Cutting Tools and Dies:** Reduces wear on high-speed steel and carbide toolings
- ↪ **Glass Processing:** Mold, cut-off tooling, glass handling equipments
- ↪ **Maintenance:** Restores bearing journal shaft and bearing tolerance and other wear surfaces
- ↪ **General Industries:** Any industries with abrasive wear surfaces on any production machinery
- ↪ **Steel Mill:** Pressing rollers, entry guides, drawing rollers, cutters, any abrasive wear surfaces

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## PURVI PRODUCTS

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Website: [www.industrialcoatingsindia.com](http://www.industrialcoatingsindia.com)

Our Distributor In Your Area

Demo facility available at: Ahmedabad, Mumbai, New Delhi

## WE ALSO DO JOB WORK FOR

- PTFE, FBE and Nylon Coating
- Kynar® and PEEK® Coatings
- Autophoretic® Coating
- Superior Hard Anodizing
- Liquid Ceramic Coating for Pumps and Valves
- Xylan® Coating for Fasteners
- Cold Galvanizing
- Hard Chrome Plating
- Heat Resistance Coating
- Protective Polymer Coating
- Phosphating
- Electroless Nickel Plating
- Magni® Zink Flake Coating for Fasteners

## INDUSTRIAL COATINGS FOR

- Corrosion Protection
- Dry Lubricity
- Non-Stick Property
- Electrical Insulation
- Abrasion Resistance
- High Heat Resistance
- UV Resistance
- Impact Resistance

FDA approved non-stick coating for direct food contact and drinking water application is also available.

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A BASIC NECESSITY FOR EVERY TOOL ROOM