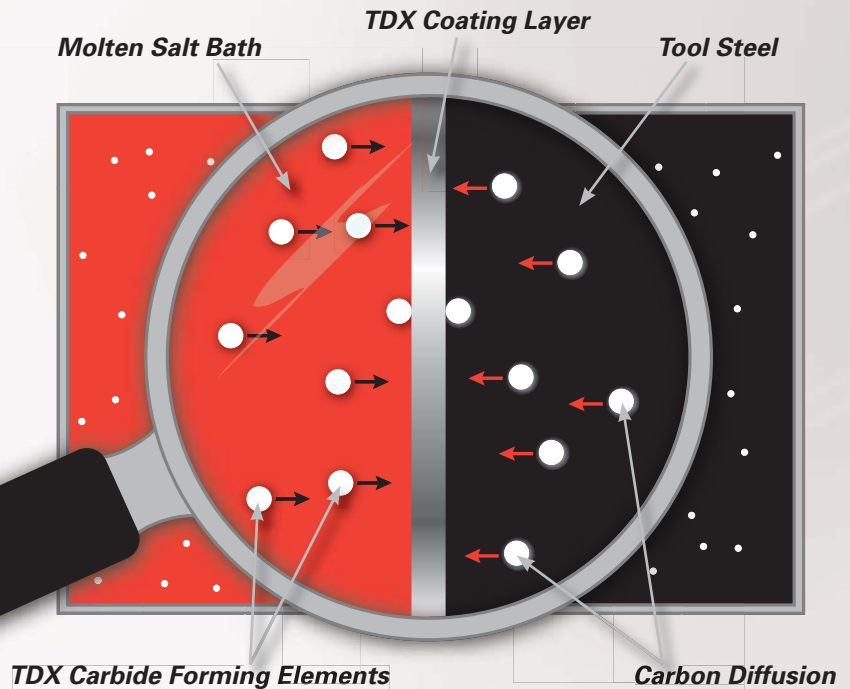
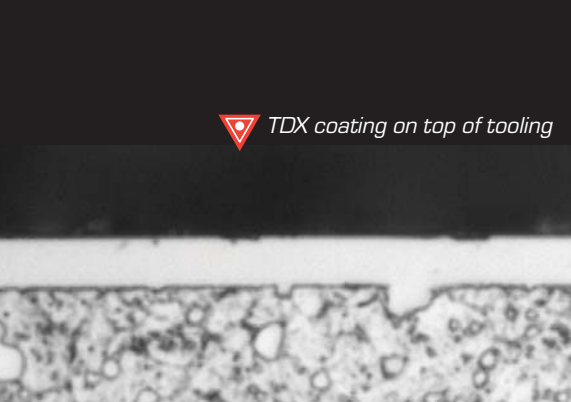


## TDX Coating

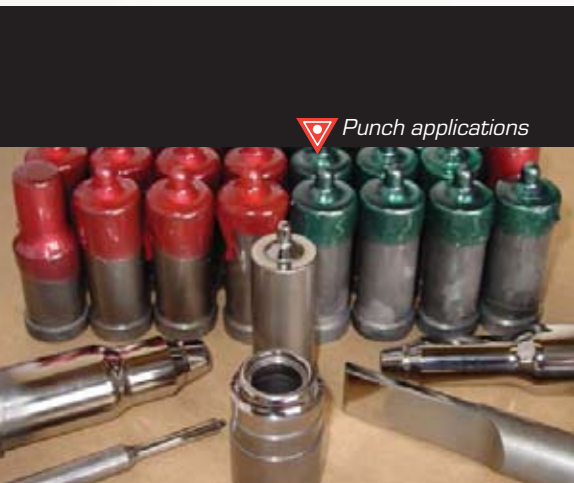
TDX is a coating process ideally suited for severe metal forming applications. The TDX coating is applied in a molten salt bath resulting in a very uniform and smooth layer of carbides. The TDX carbides are metallurgically bonded to the tooling resulting in extremely high adhesion strength and peel resistance. With a hardness value of 4200 Vickers, the TDX coating can greatly extend the life of manufacturing tooling.



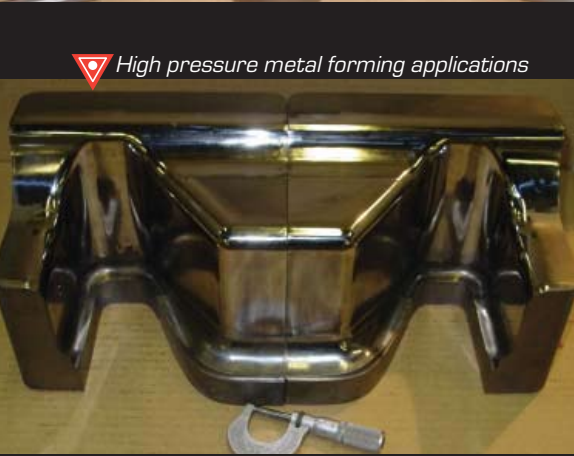
### The TDX Coating Advantage

- Longer Tool Life → Lower Tooling Expenditures
- Decrease in Wear and Galling → Increased Uptime
- Improved Part Finish → Higher Quality Parts
- Superior Adhesion → Excellent Peel Resistance





▼ Punch applications



▼ High pressure metal forming applications



▼ In-house vacuum heat treatment

## Good TDX Applications

- Severe Metal Stamping
  - Stainless Steel
  - High Strength Materials (HSLA)
- Hydroforming
- Roll Forming
- Extrusion
- Tube Forming
- Piercing / Trim Details
- Cold Forging
- Form Punches

## Why Use Tool Dynamics?

**Experience.** With over 100 years of combined experience with TD/TRD coating processes, our employees have the knowledge and skills required to provide the **highest quality** coatings available in the industry. We are continuously improving our coating to ensure the TDX coating process offers the **highest level of quality and performance**. Our experienced staff gives Tool Dynamics a competitive advantage.

**Value.** Our coating process has been engineered to provide your company with the highest value available in the industry. The TDX coating offers the best performance in severe metal forming applications often extending the life of tooling by 5 to 10 times. By offering a high level of performance coupled with an **affordable price** structure, Tool Dynamics is an industry leader in value.

**In-House Capabilities.** Since the founding of our company in 2001, we have strived to offer not only the highest value in the TD/TRD coating industry, but also to have the **best turn around time** available. Having such capabilities as in-house vacuum heat treatment, in-house polishing, and in-house tool repair services gives Tool Dynamics the ability to have the **quickest turn around time** available in the TD/TRD coating industry.

**THE**  
**TOOLDYNAMICS**  
DIFFERENCE...

- ▶ #1 in Quality, Performance, Price, and Lead-time
- ▶ In-house Vacuum Heat Treatment
- ▶ In-house Quality Department
- ▶ Knowledgeable Sales Staff

**TOOLDYNAMICS**  
integrated tooling solutions

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