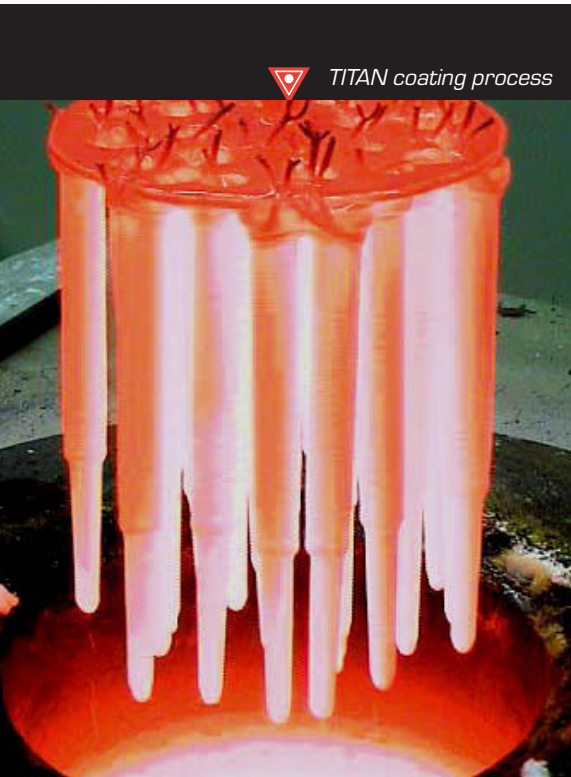
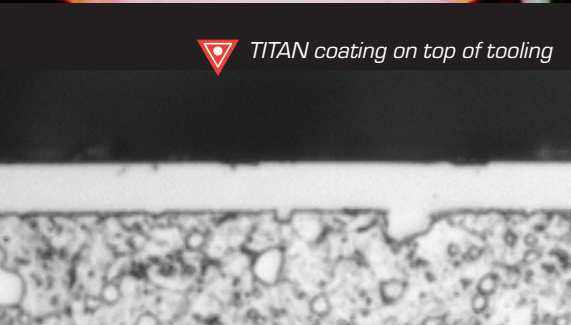


TITAN Coating

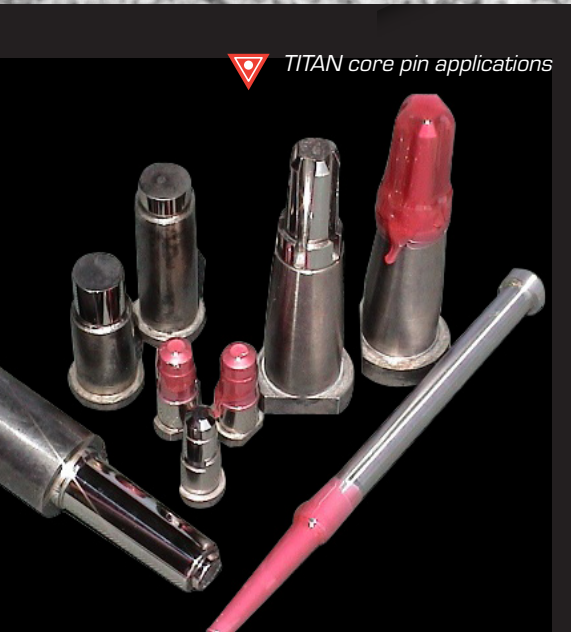
TITAN is a coating process ideally suited for severe die casting applications. The TITAN coating is applied in a molten salt bath resulting in a very uniform and dense coating layer. The TITAN coating is metallurgically bonded to the tooling resulting in extremely high adhesion strength and peel resistance. The TITAN layer is chemically inert with aluminum giving the TITAN layer excellent soldering resistance. Coupled with a hardness value of 4200 Vickers, the TITAN coating can greatly extend the life of manufacturing tooling.



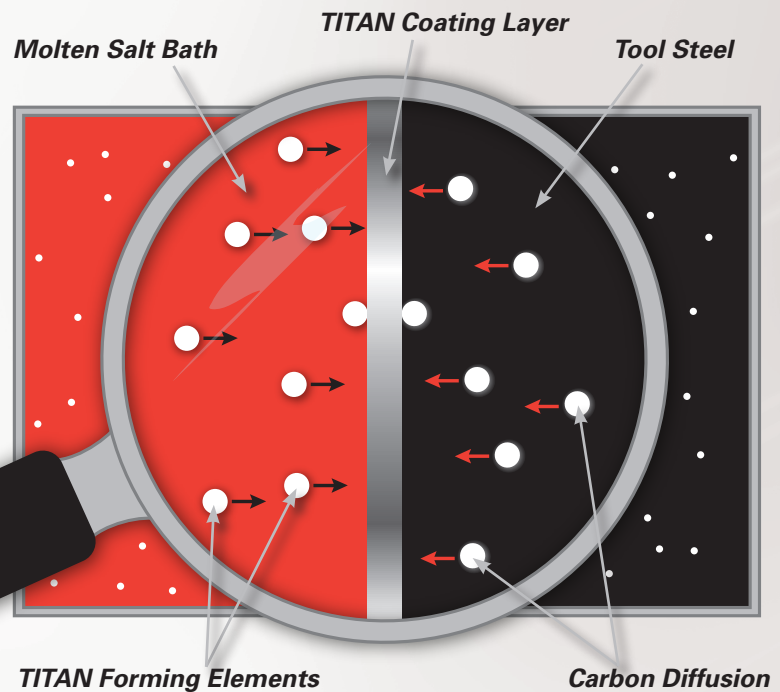
TITAN coating process



TITAN coating on top of tooling



TITAN core pin applications



The TITAN Coating Benefits

- Increase in Overall Tool Life → Lower Tooling Expenditures
- Decrease in Soldering → Increased Uptime
- Decrease in Erosion/Corrosion → Improved Casting Finish
- Superior Adhesion → Excellent Peel Resistance





Core applications



Difficult molding application



In-house vacuum heat treatment

Good TITAN Applications

- Core Pins
- Squeeze Pins
- Gate Applications
- Metal Savers
- Inserts
- Cores
- Sprue Bushings
- Ejector Pins
- Trim Punches
- Trimming Details

Why Use Tool Dynamics?

Experience. With over 100 years of combined experience with 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 that the TITAN 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 TITAN coating offers the best performance in severe die casting applications often extending the life of tooling by 3 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 beginning of our company in 2001, we have strived to offer not only the highest value in the 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**.

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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