**PRESS RELEASE**

12 May 2010


# A revolutionary new surface treatment (DST-Cr) is now available for US manufacturing industry.

## Any metal part currently nitrided can show dramatic improvements in performance

DST technology represents a significant improvement over existing technology by improving the surface wear and corrosive resistance of ferrous metals. Importantly the ability to process at low temperatures ensures that the core hardness is retained and distortion is eliminated.

Dynamic Surface Technologies International and HARD Technologies Pty Ltd announce the formation of DST-HARD Duplex Surface Treatments, LLC to offer this service in Canton Michigan since October 2009

Performance testing of the DST technology performed on samples for the die casting industry has demonstrated that the DST-Cr process offers significant extended tool life and thus a compelling alternative to existing surface treatments products and coatings.

DST has been shown to be; superior to existing low temperature surface treatment processes (ion/gas nitriding & nitrocarburizing), and more cost effective than either high temperature coatings

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## For further information

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## Backgound to Press Release

### HARD Technologies Pty Ltd – Hard DST (Duplex Surface Treatments)

HARD Technologies Pty Ltd (HARD), established in 2004, is a metallurgical based research and development organisation which has developed a surface engineering process for the ferrous alloy surface treatment market that is superior to existing processes

**HARD's** novel technology, Duplex Surface Treatment (DST) is a combination of two surface engineering techniques conducted in a Fluidised Bed Reactor (FBR) for heating and diffusing various elements into steel surfaces.

DST is a thermo-chemical gas reaction which is not achievable in conventional atmosphere or vacuum furnaces. DST technology also has **environmental** benefits in that being a lower temperature process it is less energy intensive, whilst t12 he longer lifespan of products will reduce metal demand due to less frequent scrapping and replacement of metal parts.

The FBR was designed and constructed in Victoria Australia.

### Dynamic Surface Technologies International

Dynamic Surface Technologies International, formerly Dynamic Metal Treating INC is a long established (25 years) heat treatment service provider and have developed a number of surface treatments under the trade name of "DYNA-BLUE", NITROWEAR, DYNA-CHROME, and MICRO-TEC. Dynamic is well respected in the Cutting Tool, Die-Casting, Hot Forming, Plastic Injection, Stamping and Machine Building Industry as a provider of quality vacuum hardening and surface treatments.