



## DUROXITE 400



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### General Product Description

Duroxite 400 is a specially formulated hardfacing overlay pin engineered and designed to withstand severe heat and metal-to-metal wear applications. Its exceptional quality comes from the precise control and selection of raw materials as well as proprietary processing. The maximum working temperature for the product is 480 °C (900 °F). The work-hardening hardness of the Duroxite overlay pin can reach up to 58 HRC in service. The Duroxite 400 overlay pin matches with 12% Manganese Bushings. This Bearing System is expected to last longer than traditional hardened surfaces used such as induction heated and quenched 4140 pins.

### Key Benefits

- Provides superior wear resistance in overlay and a tough inner core
- Performs well when torqueing and surface compression are involved
- Designed to outlast original equipment and manganese pins

### Typical Applications

Duroxite 400 was originally developed for dragline bucket components, but has gained wide acceptance in other applications as well. It is also used for heavy mining or industrial equipment, such as dragline shovels, clam shell buckets, sheave pins, backhoe pins, and crusher shafts.

Overlay pins can be machined to meet the requirements of any specific application.

For more information on applications see the Duroxite Product brochure.

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## Standard Dimensions

Standard diameters		Standard pin length	
Metric unit	Imperial unit	Metric unit	Imperial unit
76 mm to 280 mm	3" to 11"	Up to 2.74 m	Up to 108"

## Mechanical Properties

### Surface Hardness

Number of overlay passes	Typical as-welded surface hardness <sup>1)</sup>	Work hardening hardness
Multiple passes	52 to 54 HRC (540 to 570 HV)	Up to 58 HRC (650 HV)

<sup>1)</sup> Surface hardness is measured on machined flat surface just below overlay surface

## Tolerances

### Dimensions

Diameter of Duroxite 400 can be guaranteed within the typical tolerances of  $\pm 0.127$  mm ( $\pm 0.005$ ").

### Roundness

Roundness tolerance can be guaranteed within  $\pm 0.254$  mm ( $\pm 0.010$ ").



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