

# **WearGuard<sup>®</sup>** **Ceramic Bearings**

**Experience the Revolution  
in Extending Pot Roll Life**

High Performance in Strip Galvanizing

**MCDanel**  
Advanced Ceramic Technologies

[mcdanelceramics.com](http://mcdanelceramics.com)

## Change the Way You Operate

In every industry, there comes a time when a technological innovation changes the way everything operates.

For the galvanized steel strip industry, that innovation is WearGuard® Ceramic Bearings, the leading solution for extending your pot roll life.

### Dramatically Reduced Downtime

WearGuard Bearings have longer life over conventional bearings. This means less line shutdowns to change bearings, increasing your production time and your cost savings.

### Keep on Rolling

When you introduce WearGuard Bearings to your pot rolls, you're adding to your bottom line by keeping your line running longer with less wear and greater stability.

### Reduce Strip Vibration

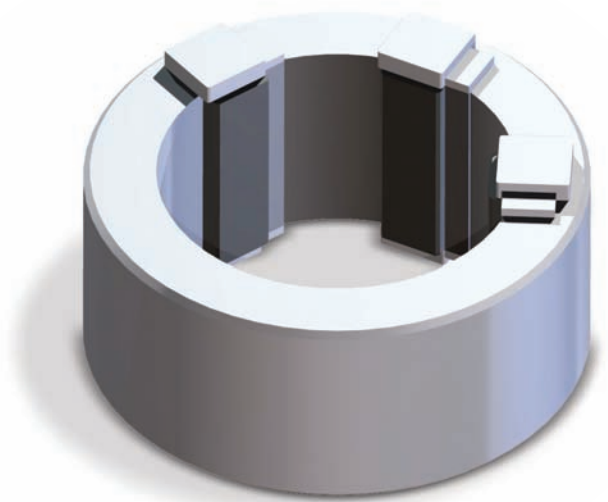
The geometrical stability and high wear resistance of WearGuard Bearings allow smooth operation of the stabilizer rolls, which minimizes strip vibration and consequently, coating thickness variation.

### Start, Stop and Restart Smoothly

The WearGuard Bearing system is inherently low friction because of the choice of materials and the arrangement of the components. The result is smooth start-ups and easy restarts after line stoppages over a wide range of strip gauges and without strip marking.

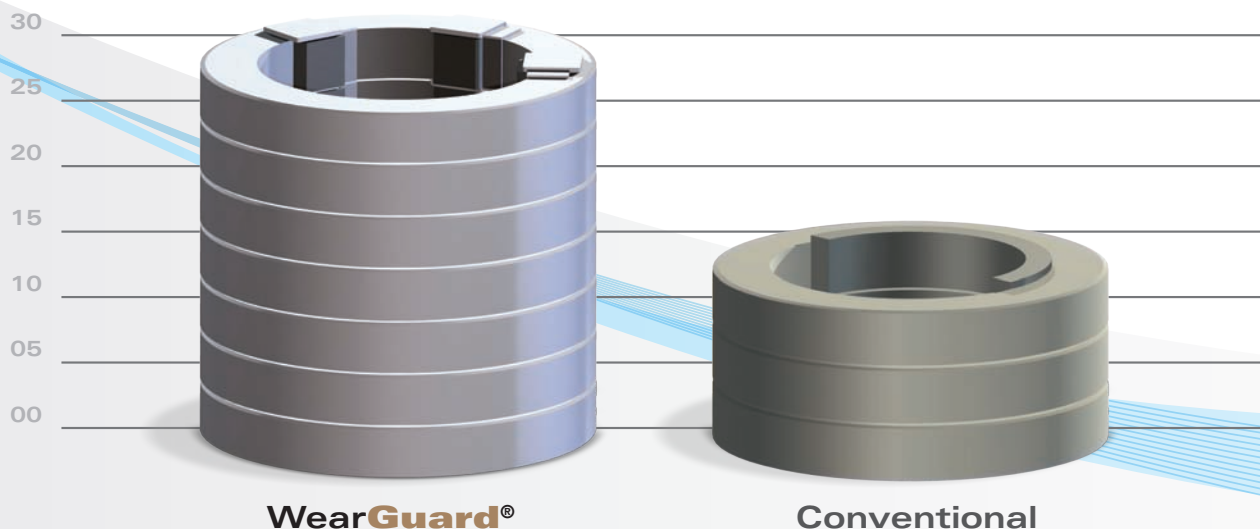
### Produce More Prime Product

Enhanced wear resistance, low friction and the dimensional stability of WearGuard, enables you to produce top grade product maximizing your bearing campaign yield. This is particularly advantageous for producers of exterior grade automotive products.



## CASE STUDY

### Average Bearing/Sleeve Life



## Advanced and Proven Ceramic Technology

Each WearGuard Assembly consists of a stainless steel housing containing three advanced ceramic bearing bars. This system was designed exclusively for use with galvanizing sink and stabilizer rolls.

### Why WearGuard Advanced Ceramics?

- :: Provides excellent wear resistance
- :: Low coefficient of friction enables the rolls to turn more easily on start-up or restarting the line after a stoppage
- :: Excellent thermal shock resistance, meaning WearGuard Bearings do not require pre-heating or special caution during removal from the pot between campaigns
- :: Capable of withstanding high compressive loads, which means it can be used in a wide range of line operating conditions
- :: Offers extreme corrosion resistance to molten zinc
- :: Tolerates the impact of dross build-up better than other materials because of its high hardness

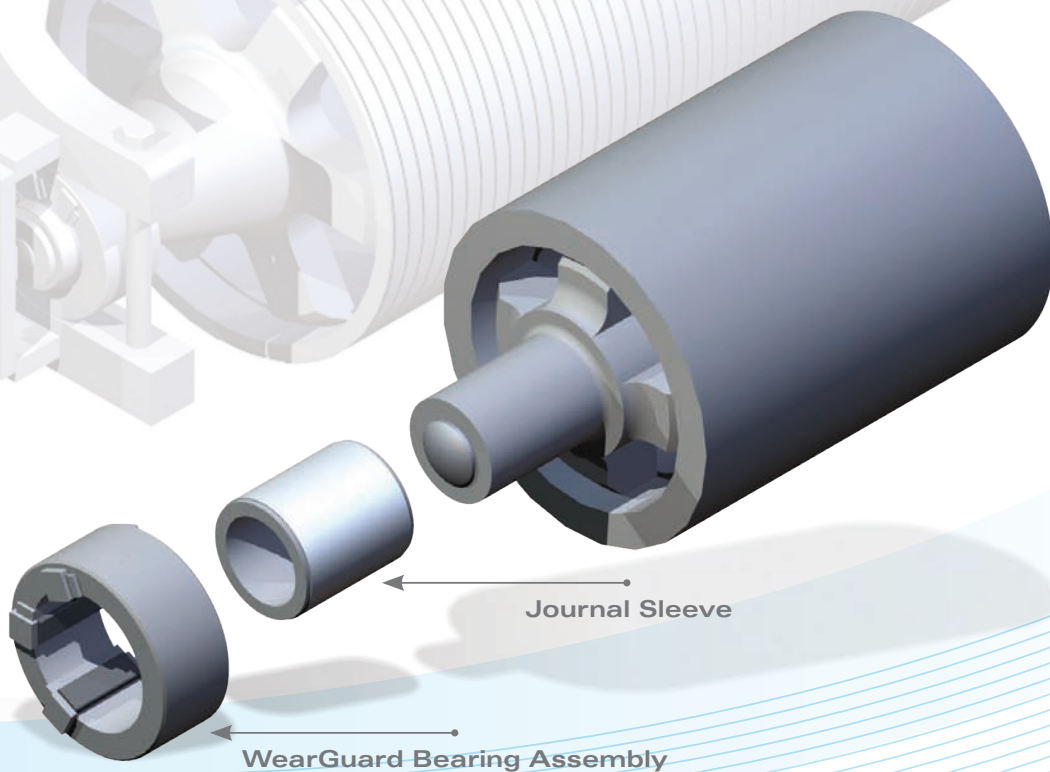
### Produced by a Leader in Advanced Ceramic Technologies

For more than 90 years, McDanel Advanced Ceramic Technologies has developed specialized expertise in the advancement of ceramic-based solutions for major industries worldwide. We are a ceramic design and engineering company, which utilizes ceramics to meet our customers' needs.

### Designed to Fit Your Operation

Our commitment to our customers and continuous quality improvement forms the cornerstone of our philosophy. Our skilled engineers work exclusively with you to custom-design WearGuard Bearings for retrofitting your pot rolls, so you can experience a smooth and quick transition.

Call to begin realizing the benefits of less downtime, reduced strip vibration, and increased prime product.



## Learn More

Talk to one of our experienced sales engineers today to learn how WearGuard Bearings can make a difference in your operation.

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