

# LOGAN

## SUPERABRASIVES



## MSC RADIAL BEARINGS

Logan SuperAbrasives manufactures specialty Microwave Sintered Carbide (MSC) tiled bearings used in oilfield drilling applications. These bearings perform extremely well in a variety of tools including turbines, mud and coiled tubing motors, as well as other downhole rotating tools. MSC Bearings have been designed to operate in the harshest conditions where other bearings have failed. They are rapidly becoming the bearing of choice in positive displacement motors with bent subs or housings, especially those in short bit-to-bend drilling motors.

### Microwave Sintered Carbide Tiles

Our Carbide Tiles are the key to Bearing Performance. Because of our patented Microwave Sintering process, unique properties can be achieved such as higher hardness and full density. These properties provide much better wear and impact characteristics when compared to conventionally sintered carbide. Coupled with the high density spherical carbide matrix, a very tough and extremely wear resistant bearing surface is created. With this combination of features, Logan SuperAbrasives' MSC Bearing is the bearing of choice for severe and harsh conditions.

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### Logan MSC Tiled Radial Bearing Features

- Wear-resistant because of very hard MSC tiles
- Spiral array allows for maximum carbide surface coverage
- Tile pattern reduces opportunity for washout and erosion
- High density Spherical Carbide Matrix

### Resulting In

- Unmatched Wear Resistance and Toughness
- Maximum Carbide Coverage
- Extreme resistance to Erosion
- High Load Capability

### CUSTOMER BENEFITS

- Much longer life than conventional, clad-type bearings
- Cost savings per rotating hour
- Consistently high performance in severe and harsh environments
- Reduced inventory requirement due to less frequent replacement
- Proven history of excellence in both reliability and performance

### CAPABILITIES

- We consider every bearing design to be custom to each customer
- Each new product undergoes a design and development process in cooperation with the customer
- Logan Metallurgical and Design Engineers provide extensive experience that leads to unique solutions to each application
- Proven track record of success
- Bearing dimensions up to 8" diameter

***Call us today to discuss how Logan SuperAbrasives can provide you with improved performance while adding value to your tools resulting in lower total operating costs***