

# Multiglide Polylube EWS

The inspiration for the Multiglide EWS bearing was a high frequency, low oscillation angle agricultural application that built total sliding distances quickly and resulted in wear failures. To solve this, utilized tribology research was done to create a new composite bearing liner system, custom engineered to improve the performance of wear surfaces.

The Multiglide EWS bearing has the same specifications as our Multiglide MRP bearing line but with increased wear resistance and reliability in contaminated joint locations with small design envelopes. Seals and their machining cost can sometimes be eliminated thanks to the increased contaminated environment performance.

## Construction and Mining

When large construction machinery is taken off-line, entire projects can be paused leading to costly delays. The Multiglide EWS bearing allows for equipment to operate maintenance-free for longer periods of time. Beyond the normal demands for reliability and predictability, this can also reduce the number of scheduled maintenance visits and their attendant downtime. Extended wear can allow scheduled bearing replacement to be combined with other major component overhaul maintenance schedules on a single call.

## Agricultural Equipment

Planting and harvesting seasons occur in narrow windows of time, requiring the equipment to be ready for use. The need for longer lasting bearings becomes increasingly important with today's larger equipment. Not only does increased size bring more points of failure, equipment is moving through the fields faster as acres farmed per piece of equipment grows.

Multiglide EWS shows excellent wear properties in contaminated environments and can help move maintenance into off-season, preserving uptime in critical seasons.

Properties	Units	
Coefficient of Friction (DRY)	-	0,075 – 0,21
Water Absorption After 2 hours	%	0,12
After 24 hours	%	0,16
Ultimate Compressive Strength	MPa	483
Normal Working Pressure	MPa	207
Coefficient of Thermal Expansion	m/m/°C	8,69 x 10 <sup>-6</sup>
Temperature Range	°C	-163 to 163°C
Maximum Velocity	m/s	0,05
Density	g/cm <sup>3</sup>	1,87 – 1,95

**Availability:**

Minimal inside diameter: Ø10 mm  
Maximum inside diameter: Depending on the availability of the mandrel  
Lengths: Standard lengths (other sizes on request)

**Important:**

Housing size: H7 / H8 (standard)  
Shaft size: h7 / h8 (standard)