

# PRODUCT SPOTLIGHT

**ATRO PARTS**  
ENGINEERED | DURABLE | RELIABLE  
MANUFACTURED IN ST. CLAIR, MISSOURI | U.S.A.

## CEMENT MIXER: STINGER AXLE BOOSTER CYLINDER BUSHINGS

### ATRO PART NUMBERS EB38651 & EB38700

Many concrete mixers employ a rear mounted “Stinger Axle” that drops down and makes contact with the pavement, usually powered down by a hydraulic cylinder. These “Booster Bridge Trailing Axles” are forced down to shift the load forward towards the front of the truck. This allows concrete mixers to maximize payload and meet local weight restrictions by improved weight distribution across the truck axles. These “drop down” axles on the rear of the mixer are often rigid suspensions. Being rigid they take a beating and ATRO’s stronger polyurethane material provide much longer life for the booster cylinder bushings mounted at the end of the cylinders. The EB38700 BridgeKing cylinder bushing has an extended outer sleeve to reduce cracking. Please see the diagram for the bushing locations.

**THERE ARE SEVERAL MANUFACTURERS OF THESE SUSPENSIONS. THE FOLLOWING BUSHINGS ARE ON POPULAR APPLICATIONS:**

ATRO #EB38700

Con-Tech #750051

BridgeKing Cylinder Pivot Bushing

Kimble #C9634375-03

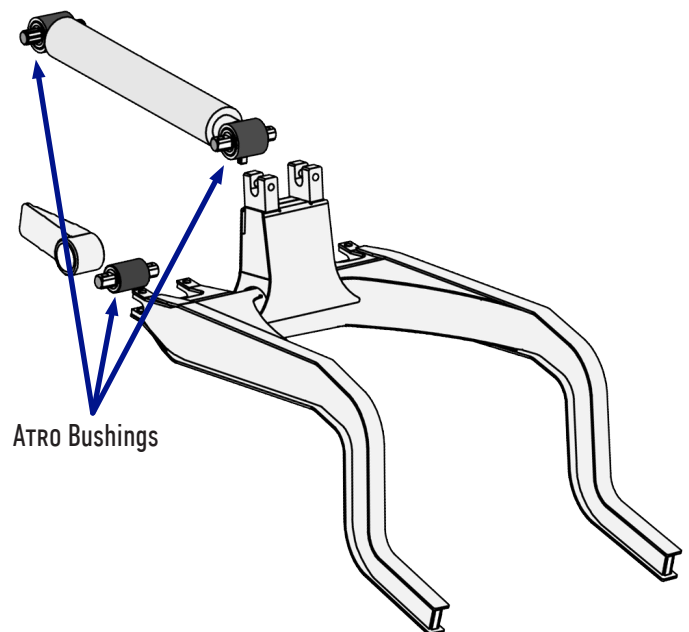
ATRO #EB38651

McNeilus #0183488

McNeilus Booster Cylinder

### BENEFITS OF ATRO's POLYURETHANE BUSHINGS

- Polyurethane material is twice as strong as rubber
- It has 3-5 times the life of rubber bushings
- Polyurethane is not affected by chemical attack including acidic cleaners



**Contact ATRO customer service with questions or for more information about the full line of ATRO parts at 1.800.325.6114.**

# ATRO POLYURETHANES

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## KEY FEATURES: *The ATRO Difference*

ATRO maintains 11 proprietary formulations, ATRO Polys, each having unique physical properties to optimize performance. Whether absorbing a shock or transferring energy, ATRO is engineered to function based on the demands of the part. ATRO provides polyurethane parts and solutions for heavy trucks.

## WHAT MAKES **ATRO PARTS** DIFFERENT ...

### *The Material*

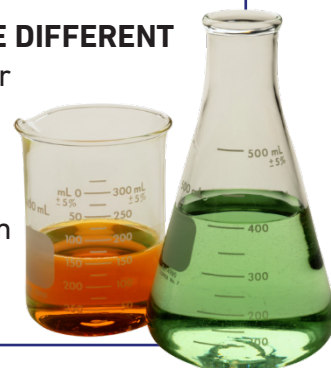


#### 11 PROPRIETARY ATRO POLY FORMULAS

Upon evaluation of the application and the purpose/function of the part, ATRO will determine which specifically formulated poly. ATRO meets or exceeds OE specs, matches or improves ride performance.

#### POLYURETHANES ARE DIFFERENT

- Ranging Durometer
- Tensile Strength
- Tear Strength
- Compression Set
- Ultimate Elongation
- Rebound



### *ATRO Polyurethane is better than Rubber*



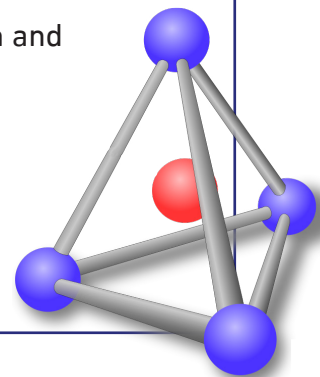
#### STRONGER MATERIAL

- ATRO Polys are specifically engineered to the function of the part providing added durability and reliability to the suspension.
- ATRO Polys absorb energy, some deflect energy. Some maintain higher rebound or greater compression. Each part engineered for purpose and functionality.
- Rubber primarily maintains one set of properties.
- ATRO Polys maintains at least 2x or greater tensile and tear strength and 2x the elongation vs. rubber.



#### CHEMICALLY RESISTANT

- ATRO Polys are impervious to oil, grease, brine, cleaning solvents, hydraulic fluids and diesel fuel.
- Rubber deteriorates in similar conditions.



CELEBRATING 30 YEARS  
**ATRO**  
POLYURETHANE • SOLUTIONS

POLYURETHANE PARTS | SOLUTIONS FOR HEAVY TRUCKS

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