

Block-Type Universal Joint Rebuild and Repair Service



AMERIDRIVES... A LEGACY OF LEADERSHIP

For more than 90 years, Ameridrives has been an industry leader in the supply of flexible power transmission gear couplings and spindles for the most critical and demanding applications. Ameridrives began manufacturing industrial universal joints in 1978 and quickly became the North American market leader.

Today, we pride ourselves on being able to offer one of the most comprehensive lines of universal joints in the industry. We are the only American manufacturer of large universal joints up to 1300 mm in diameter with local sales and engineering support along with a comprehensive rebuild and repair program.

NORTH AMERICAN MILL OPERATORS CAN SIGNIFICANTLY REDUCE DOWNTIME AND COSTS WITH SERIES 7000 **BLOCK-TYPE U-JOINT REBUILD AND RETROFIT SERVICES** BY AMERIDRIVES, AVAILABLE IN THE U.S.

Now, mills in North America can save time and money since they no longer need to wait for months while they ship their block-type U-joints to an overseas manufacturer for rebuild and repair services.

The major competitor U-Joint design utilizes bolts to connect the bearing blocks to the shaft. Unfortunately, after only a few years of service, the bolts start to come loose under high mill torque loads causing the U-joints to fail.

North American mill operators, with an eye on increasing output while reducing costs, can now send their damaged competitor block-type U-joints directly to our Ameridrives facility in Erie, Pennsylvania.

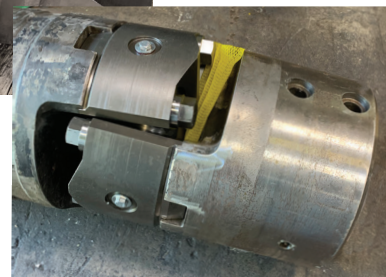
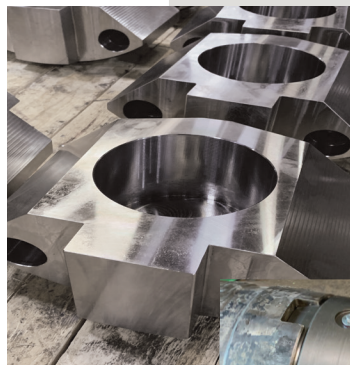
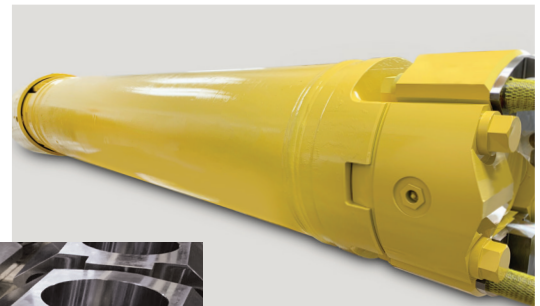
Our complete block-type (Series 7000) U-Joint repair and rebuild service options include:

- Service sizes 315 mm to 600 mm
- Manufacturing and installing completely new blocks on existing customer shafts with no modifications to the existing shaft.
- Manufacturing entirely new dimensional drop-in replacement U-Joints, utilizing Ameridrives mill-proven cross and bearing design vs. competitor's bolt system.

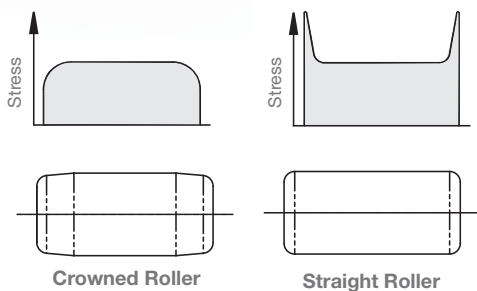
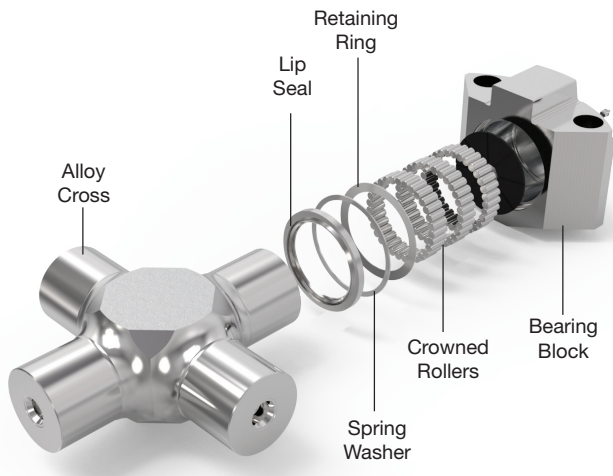
**Reduced shipping costs
combined with reduced lead times
and rebuild costs is a win/win
for North American mills.**



Damage due to bolts coming loose on competitor block-type U-Joint.



AMERIDRIVES MILL-PROVEN CROSS AND BEARING DESIGN



Inner Bearing Race – Replaceable inner bearing race manufactured from bearing steel fits over forged alloy cross in select sizes. This design provides long bearing life and permits for economical replacement of bearing assemblies.

Radius Shoulder Trunnions – Shoulder has generous radius at base of cross trunnion to reduce stress concentrations.

Double-Lip Seal – Abrasion resistant multi-lip extruder type seals to insure integrity of the bearing lube reservoir. 4 Point lubrication with lube fittings on each bearing housing.

Thrust Bearings – Each cap has a filled nylon compound thrust washer to prevent steel on steel contact of the trunnion to minimize friction and prevent galling under heavy loads. Filled nylon thrust bearings automatically adjust themselves to compensate for minor deflections.

Crowned Rollers – Eliminates stress concentrations at the ends of the rollers. The reduction in stress contributes significantly to increased bearing (B10) life. Three rows of rollers are used to distribute load over length of trunnion.

Zero Clearance Assembly – Cross and bearing assembled for zero radial clearance for optimum thrust and radial bearing performance and elimination of radial whirl associated with vibrations.

Contoured Bearing Caps – Allows for longer cross journals for increased torque and bearing capacity.

Flanges – Commonly supplied with face pad or hirth flanges to provide a backlash free connection capable of transmitting high torques.

AMERIDRIVES PROVIDES TOTAL REBUILD AND RETROFIT SERVICES

Comprehensive services include the inspection, remanufacturing and repair of all original equipment manufacturers' shafts, spline sections, yokes, flanges, knuckles and journal cross assemblies.

Ameridrives is capable of repairing:

• Koyo® • Maina • Voith® • Najico™ • GWB™ • Morgan Koelling

Total services offered include:

Engineering Ameridrives is a true OEM of a complete line of Universal Joint parts, so we can offer full engineering services to address all your application needs and improve performance

Repair Program We become your partner to maximize your driveshaft life and performance. Detailed inspection and repair reports let you know exactly what options you have. Comprehensive programs will help reduce overall costs and reduce unnecessary downtime.

Inspection Evaluate the condition of the gears, shafts, bearings and seals during a visual and dimensional inspection.

Bearing Replacement Capable of replacing other manufacturer's bearings with interchangeable components or retrofitting with a standard Ameridrives bearing assembly package.

Yoke Repair Restore quality of yoke to "Like New" for various OEM yokes.

Spline Repair Fix minor gouges and cracks along length of spline as well as the cap ability to replace completely damaged spline sections.

Welding Re-weld existing flanges, shafts and yokes on any number of reusable pieces of equipment.

Non Destructive Testing Mag penetrant testing for cracks in the yoke, flange, journal cross and spline.

Painting Complete painting of the shaft and joint assembly in any color the user requests.

Lubrication Routine lubrication for shipping and storage (priming) as well as full lubrication for immediate use.

Training Seminars Covers all phases of repair and rebuild in a hands-on program: inspection, teardown, reassembly and testing.

Expedited and emergency service available from our OEM stock and manufacturing capability

QUALITY ASSURANCE

From inspection and teardown to reassembly and complete unit testing, each step is planned and executed within the requirements of our Quality Management System.

Rebuilt Ameridrives units include a "Factory New" warranty

Ameridrives Facilities

North America

USA

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Erie, PA 16502 - USA
814-480-5000

*Mill Spindles, Ameriflex, Ameridisc,
Universal Joints, Driveshafts,
Mill Gear Couplings*

2000 Clovis Barker Road
San Marcos, TX 78666 - USA
888-449-9439

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The Brands of Altra Motion

Couplings

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Guardian Couplings
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Electric Clutches & Brakes

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Warner Electric
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Heavy Duty Clutches & Brakes

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Wichita Clutch
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Gearing & Specialty Components

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Boston Gear
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Delevan
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Delroyd Worm Gear
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Engine Braking Systems

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Portescap
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Marland Clutch
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