

Ameriflex™ Engine Test Stand Couplings

FOR HELICOPTER AND AEROSPACE
DRIVETRAIN APPLICATIONS



COUPLINGS CUSTOM DESIGNED AND BUILT TO MEET SPECIFIC CUSTOMER TEST STAND REQUIREMENTS

Highly engineered Ameriflex™ couplings have been installed on hundreds of engine test stands by more than 30 customers in the commercial and military aerospace and helicopter industries.

Leading OEMs routinely rely on the extensive experience of the Ameridrives' engineering team to help refine their coupling's characteristics and mass properties to facilitate the rotor dynamics of the drive train. Custom couplings can be manufactured with a variety of options, including built-in labyrinth seals, integrated wireways, special hub designs and special coatings.

Popular Ameridrives™ Ameriflex couplings are the preferred choice for helicopter test stands. The couplings utilize multiple separated diaphragms (in series) with an anti-flail design that protects drivetrain components, especially in the event of a failure due to operating beyond the coupling or equipment design limits.

AMERIFLEX™ MULTI-CONVOLUTED DIAPHRAGM COUPLING FEATURES

- Speeds up to 30,000 RPM
- High torque to diameter ratio
- High torque to weight ratio
- Low bending moment and axial forces resulting in lower bearing loads
- Lower reaction loads vs. other coupling styles
- Low repeatable unbalance
- Field replaceable sub-assemblies
- 15-5 PH stainless steel diaphragms, shot peened to improve fatigue strength* and reduce stress corrosion.

** Increased fatigue strength is not included in safety factor calculations*



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The proper selection and application of products and components, including assuring that the product is safe for its intended use, are the responsibility of the customer. To view our Application Considerations, please visit <https://www.regalrexnord.com/Application-Considerations>.

To view our Standard Terms and Conditions of Sale, please visit <https://www.regalrexnord.com/Terms-and-Conditions-of-Sale>.

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