
Dynaflex® Elastomeric Flexible Couplings

Lord engineers can assist you with selecting an appropriate coupling type and configuration. With extensive analytical capability and years of experience in designing products for powertrain vibration, shock and motion control, Lord engineers offer everything from simple application assistance to complex system analysis and specialized product design.

Torsional vibration, transient shock and misalignment load analyses require specialized computer programs and engineering experience. Lord engineers can analyze your system and recommend the right solution, whether it's a selection from the standard product line or a custom design.

Lord's standard product lines of elastomeric flexible powertrain couplings are presented in the following sections. Many variations of standard products are available, but not listed as 'standard.' Main drive, fan drive, PTO and accessory drive couplings are available in a host of custom designs and variations of standard products. Lord engineers are ready to help you meet your specific application requirements with custom designs where necessary.

Product Lines:

Lord offers five major lines of elastomeric flexible couplings. Standard lines are presented on the following pages. In addition to the standards listed, many variations are available in each product line.

Dynaflex® Shear

The Dynaflex shear coupling features a durable elastomeric flexing element bonded between two hubs. These couplings are designed for fractional horsepower applications requiring smooth starting transition, torsional vibration isolation and misalignment accommodation. Typical applications are small electric motor drives, low-torque mechanisms, power take-offs and auxiliary equipment drives.

Dynaflex® Spool

Dynaflex shear spool elements can be arranged in a variety of configurations to create a wide range of torque-transmitting capability. Elastomeric spool elements can be purchased in lot sizes for customer-assembled coupling designs, or Lord can provide a complete coupling assembly to meet specific application requirements. Typical applications are large drives requiring high torque capacity and low torsional stiffness.

Dynaflex® Bushings

Dynaflex compression bushings are bonded elastomeric elements designed for use in multiple element coupling configurations where high torque capacity is required. Bushings are available in a variety of stiffnesses. They can be purchased in lots for customer-assembled designs, or Lord can provide complete coupling assemblies designed to meet your specific application requirements. Applications requiring high torque/high torsional stiffness, but angular, axial and parallel misalignment accommodation can be designed using these bushings in a variety of configurations including parallel and series arrangements.

Dynaflex® LCR

The Dynaflex LCR series features an elastomeric ring with bonded, bush-type inserts allowing various attachment configurations. These couplings offer a soft torsional spring rate which permits smooth transmission of driving torque while attenuating shock torques and providing excellent misalignment accommodation. These couplings are used in PTO drives where torsion and cocking flexibility are required. They can be mated with a variety of hub configurations. Special high-torque designs are available, as well as custom designs to meet special application requirements.

Dynaflex® LCD

The Lord Dynaflex LCD is the ultimate coupling for reciprocating engine drives. This coupling features a bonded elastomeric flexing element which is radially precompressed into a flanged outer housing. This design produces a low torsional stiffness for maximum isolation of engine firing-pulse-induced torsional disturbances, torque overload slip protection, misalignment accommodation, superior shock pulse attenuation and fatigue life, and is adaptable to a variety of drive attachment designs. Custom designs are available to fit nearly every SAE flywheel configuration available from most engine manufacturers.