



HUCO DYNATORK OFFERS A WIDE VARIETY OF COUPLINGS FOR PRECISION INDUSTRIAL AND COMMERCIAL APPLICATIONS WORLDWIDE.

Introduction to Couplings...

In the simplest of terms a coupling's purpose is to transfer rotational movement from one shaft to another. Reality is somewhat more complicated as flexible shaft couplings have also to compensate for misalignment between two shafts. This ability must be balanced with the need to be pliable in the planes of misalignment while still having the torsional strength to carry out the coupling's main function. This is known as the Compliance mechanism where compliance is the capacity for allowing relative displacement.

Several factors should always be taken into consideration when looking to specify flexible shaft couplings. These are torsional stiffness, backlash, torque, life and attachment system. All of these have bearing on coupling selection.

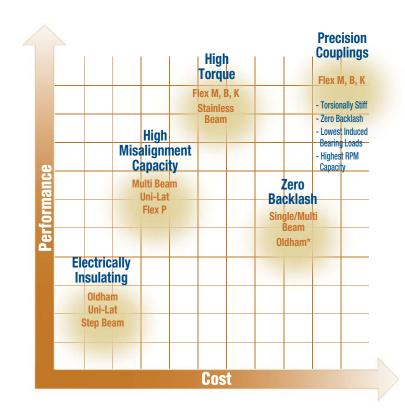
Selecting the Ideal Coupling

The choice of couplings available to today's engineers can be daunting, but follow our guidelines and you will arrive at the optimum coupling for your particular application.

- Does the coupling provide adequate misalignment protection?
- Can it transmit the required torque?
- Do I need axial motion or axial stiffness?
- Can it fit within the available space envelope?
- Can it operate at the designated ambient temperature?
- Does it provide torsional stiffness required for positional accuracy?
- Does it provide electrical isolation between the shafts?
- Will it have the required life expectancy?

Select the Coupling that Meets your Application Requirements Precisely

Huco Dynatork offers a wide variety of couplings including precision, beam and general purpose. Use the graph below as a quick reference guide to determine which type of coupling fits your performance and cost design envelope.



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Product Overview



Precision Couplings

Flex B Bellows

Precision Bellows coupling with excellent kinematic properties. Two types offer differing combinations of stiffness, misalignment and axial motion.

Flex K Large Bellows

Large Precision Bellows coupling with excellent kinematic properties. Two types offer differing combinations of stiffness, misalignment and axial motion.

Flex M Disc

Precision Disc coupling with excellent kinematic properties. Dynamically balanced construction. Single-stage versions make up into 'whirl' free Cardans. Two-stage versions offer short envelopes and low bearing loads.



Beam Couplings

Multi Beam

Zero backlash single-piece couplings. Single stage (3-beam); two stage (6-beam). Material options available for moisture and corrosion resistance.

Single Beam

Zero backlash single-piece couplings. More flexible than Multi-Beam but less torsionally rigid.

Step Beam

Unique plastic coupling design provides an excellent combination of radial flexibility with torsional stiffness.



General

Oldham

Zero/low backlash couplings, robust design. Easy to use 3-part couplings with replaceable wear elements. Pull-apart re-engage facility for blind assemblies.

Uni-Lat

Unique, light-duty couplings with generous angular and radial misalignment compensation. Resists axial motion, can anchor unrestricted shafts and perform light push/pull duties.

Flex P

Exceptional flexibility in all three directions: radial, angular and axial.



Friction Clutches

Vari-Tork™

Allow slippage when the torque being transmitted reaches a pre-determined threshold. Used in all types of small drives to help protect personnel and equipment.

Small, user-adjustable torque limiters for concentric or in-line mounting. Operates by friction using interleaved clutch plates.

Friction clutches interrupt rotation when the load being transmitted reaches a predetermined threshold. Clutches help protect personnel and equipment.

Typical Applications

- High-End Servo Drives
- Pulse Generators
- Scanners
- Positioning Slides
- High Speed Dynamometers
- Unsupported Drive Shafts
- Metering Valves

Typical Applications

- Stepper and Servo Drives
- Encoders
- General Purpose
- Tachometers
- Small Pumps

Motors and Drives

• Light-Duty Power **Transmission Applications**

Typical Applications

- Stepper drives
- Encoders
- Resolvers
- Tachometers
- Potentiometer Drives
- Small Positioning Slides
- Dosing Pumps
- Light power drives
- Small Generators

Typical Applications

· All types of small drives

Huco Facilities

Europe

United Kingdom

Merchant Drive, Hertford Hertfordshire SG13 7BL - England +44(0)1992 501900

Precision Couplings and Air Motors

North America

Air Motors

440 North Fifth Avenue Chambersburg, PA 17201 - USA 888-829-6637 or 717-264-7161 Precision Couplings and

The Brands of Altra Industrial Motion

Couplings

Ameridrives www.ameridrives.com

Bibby Turboflex

www.bibbyturboflex.com

Guardian Couplings www.guardiancouplings.com

Huco

www.huco.com

Lamiflex Couplings www.lamiflexcouplings.com

Stromag www.stromag.com

TB Wood's

www.tbwoods.com

Geared Cam Limit Switches

Stromag

www.stromag.com

Electric Clutches & Brakes

Inertia Dynamics

Matrix

www.matrix-international.com

Stromag www.stromag.com

Warner Electric

www.warnerelectric.com

Linear Products

Warner Linear

www.warnerlinear.com

Engineered Bearing Assemblies

www.kilianbearings.com

Heavy Duty Clutches & Brakes

Industrial Clutch www.indclutch.com

Twiflex

www.twiflex.com

Stromag

www.stromag.com

Svendborg Brakes

www.svendborg-brakes.com

Wichita Clutch www.wichitaclutch.com

Belted Drives

TB Wood's www.tbwoods.com

Gearing

Bauer Gear Motor www.bauergears.com

Boston Gear

www.bostongear.com

Delroyd Worm Gear

Nuttall Gear

www.nuttallgear.com

Overrunning Clutches

Formsprag Clutch

Marland Clutch

Stieber

www.stieberclutch.com

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