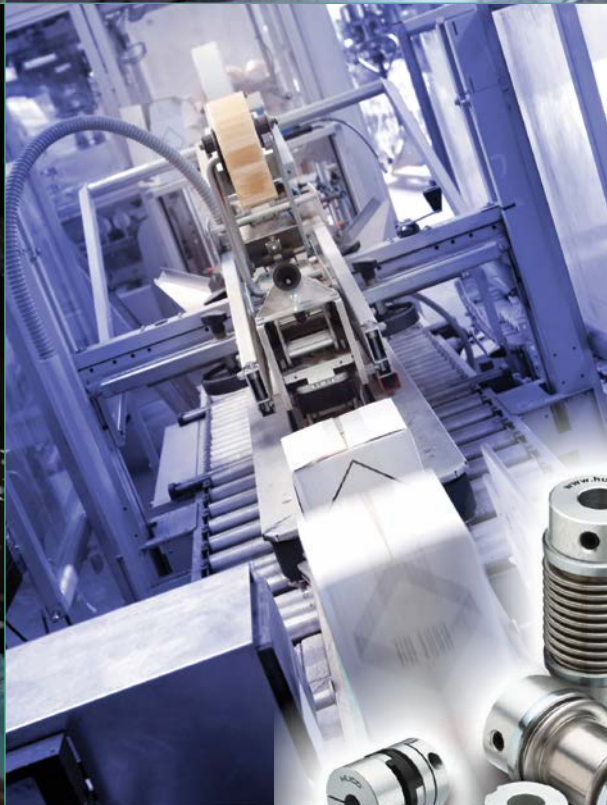


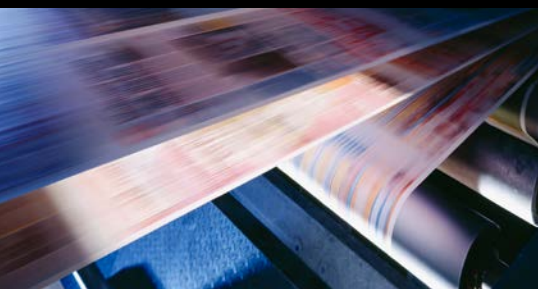


Huco Dynatork Flexible Couplings



 **Huco**[®]
Dynatork

An Altra Industrial Motion Company



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.

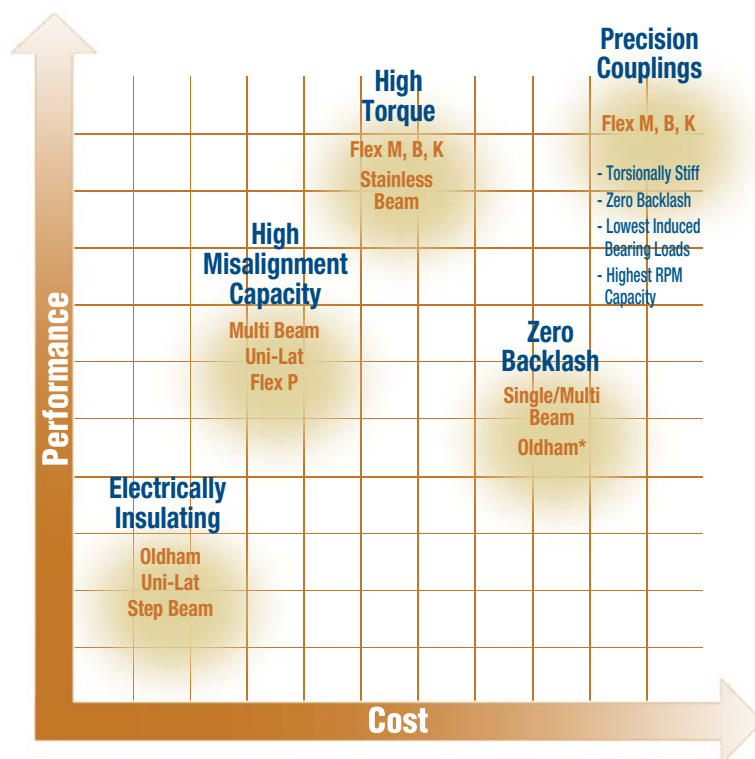
Selecting the Ideal Coupling

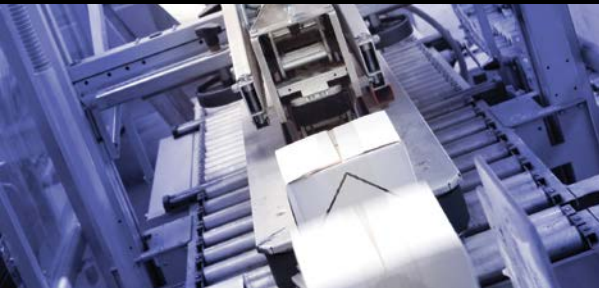
The choice of couplings available to today's engineers can be daunting, but follow our guidelines and you will arrive at the optimum coupling for your particular application.

- 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.





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.

Typical Applications

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



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.

Typical Applications

- Stepper and Servo Drives
- Encoders
- General Purpose
- Tachometers
- Small Pumps
- Motors and Drives
- Light-Duty Power Transmission Applications



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.

Typical Applications

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



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 pre-determined threshold. Clutches help protect personnel and equipment.

Typical Applications

- All types of small drives

Belted Drives and Sheaves

TB Wood's

Belted Drives

Chambersburg, PA - USA
1-888-829-6637 – Press #5

For application assistance:
 1-888-829-6637 – Press #7

Couplings

Ameridrives Couplings

*Mill Spindles, Ameriflex,
 Ameridisc*

Erie, PA - USA
1-814-480-5000

Gear Couplings

San Marcos, TX - USA
1-800-458-0887

Ameridrives Power Transmission

*Universal Joints, Drive Shafts,
 Mill Gear Couplings*

Green Bay, WI - USA
1-920-593-2444

Bibby Turboflex

*Disc, Gear, Grid Couplings,
 Overload Clutches*

Dewsbury, England
+44 (0) 1924 460801

Boksburg, South Africa
+27(0) 11 918 4270

Guardian Couplings

*Engineered Flywheel Couplings,
 Engine Housings and Pump Mounts,
 Flexible Shaft Couplings*

Michigan City, IN - USA
1-219-874-5248

Huco Dynatork

*Precision Couplings and
 Air Motors*

Hertford, England
+44 (0) 1992 501900

Chambersburg, PA - USA
1-888-829-6637

Couplings Cont.

Lamiflex Couplings

*Flexible Couplings, Bearing
 Isolators, and Coupling Guards*

Cotia, SP - Brasil
+55 (11) 4615-6300

TB Wood's

Elastomeric Couplings

Chambersburg, PA - USA
1-888-829-6637 – Press #5

For application assistance:
 1-888-829-6637 – Press #7

General Purpose Disc Couplings

San Marcos, TX - USA
1-888-449-9439

**Electromagnetic
 Clutches and Brakes**

Inertia Dynamics

*Spring Set Brakes; Power On and
 Wrap Spring Clutch/Brakes*

New Hartford, CT - USA
1-800-800-6445

Matrix International

*Electromagnetic Clutches
 and Brakes, Pressure Operated
 Clutches and Brakes*

Brechin, Scotland
+44 (0) 1356 602000

New Hartford, CT - USA
1-800-825-6544

Warner Electric

*Electromagnetic Clutches
 and Brakes*

New Hartford, CT - USA
1-800-825-6544

For application assistance:
 1-800-825-9050

Saint Barthélemy d'Anjou, France
+33 (0)2 41 21 24 24

*Precision Electric Coils and
 Electromagnetic Clutches and
 Brakes*

Columbia City, IN - USA
1-260-244-6183

**Engineered
 Bearing Assemblies**

Kilian Manufacturing

*Engineered Bearing
 Assemblies*

Syracuse, NY - USA
1-315-432-0700

Gearing

Bauer Gear Motor

Geared Motors

Esslingen, Germany
+49 (711) 3518-0

Somerset, NJ - USA
1-732-469-8770

Boston Gear

*Enclosed and Open Gearing,
 Electrical and Mechanical
 P.T. Components*

Charlotte, NC - USA
1-800-825-6544

For application assistance:
 1-800-816-5608

**Nuttall Gear and
 Delroyd Worm Gear**

*Worm Gear and
 Helical Speed Reducers*

Niagara Falls, NY - USA
1-716-298-4100

**Heavy Duty
 Clutches and Brakes**

Industrial Clutch

*Pneumatic and Oil Immersed
 Clutches and Brakes*

Waukesha, WI - USA
1-262-547-3357

Svendborg Brakes

*Industrial Brakes and
 Brake Systems*

Vejstrup, Denmark
+45 63 255 255

Twiflex Limited

Caliper Brakes and Thrusters

Wichita Falls, TX - USA
1-844-723-3483

Twickenham, England
+44 (0) 20 8894 1161

**Heavy Duty
 Clutches and Brakes Cont.**

Wichita Clutch

*Pneumatic Clutches
 and Brakes*

Wichita Falls, TX - USA
1-800-964-3262

Bedford, England
+44 (0) 1234 350311

Linear Products

Warner Linear

Linear Actuators

Belvidere, IL - USA
1-800-825-6544

For application assistance:
 1-800-825-9050

Saint Barthélemy d'Anjou,
 France
+33 (0)2 41 21 24 24

Overrunning Clutches

Formsprag Clutch

*Overrunning Clutches
 and Holdbacks*

Warren, MI - USA
1-800-348-0881 – Press #1

For application assistance:
 1-800-348-0881 – Press #2

Marland Clutch

*Roller Ramp and Sprag Type
 Overrunning Clutches
 and Backstops*

South Beloit, IL - USA
1-800-216-3515

Stieber Clutch

*Overrunning Clutches
 and Holdbacks*

Heidelberg, Germany
+49 (0) 6221-30470

For information concerning our
 sales offices in Asia Pacific
 check our website
www.altramotion.com.cn



An Altra Industrial Motion Company

www.huco.com

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