

Contents

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Stainless Steel Bellows type	Nickel Bellows type	Membrane type	Multi-Beam type	Single-Beam type
Flex B   Flex K 	Flex Ni  	Flex M Single-stage  Short two-stage  Long two-stage 	Multi-Beam 6-Beam   Material Options: Aluminium Stainless Steel Acetal	Single-Beam  Material Options: Aluminium Stainless Steel
General description				
Precision couplings with excellent kinematic properties. The 3 types offer differing combinations of stiffness, radial compensation and axial motion.	Precision couplings with excellent kinematic properties. The 3 types offer differing combinations of stiffness, radial compensation and axial motion.	Precision couplings with excellent kinematic properties. Dynamically balanced construction. Single-stage versions make up into 'whirl' free Cardans. The 2-stage versions offer short envelopes and low bearing loads respectively.	General purpose single piece couplings Single stage (3-beam) Two stage (6-beam) Material options for moisture and corrosion resistance.	More flexible than Multi-Beam but less torsional rigidity.
Where to use				
High-end servo drives, pulse generators, scanners, positioning slides, metering valves, etc.	High-end servo drives, pulse generators, scanners, positioning slides, metering valves, etc.	High-end servo drives, pulse generators, scanners, positioning slides, high speed dynamometers, unsupported drive shafts, etc.	Stepper and servo drives, encoders, general purpose light duty power transmission applications.	Stepper drives, encoders, general purpose light duty power transmission applications.
Speeds				
Flex B up to 5000 rpm Flex K up to 15000 rpm	Up to 5000 rpm	Up to 5000 rpm	Up to 5000	Up to 5000 rpm
Peak torque largest size lbs.-in (Nm)				
4425 (500)	110.6 (12.5)	885 (100)	1239 (140)	266 (30)
Standard bores in. (mm)				
1/8"-2 1/2" (3 to 65)	1/8"-3/4" (3 to 20)	1/8"-1 1/4" (3 to 38)	1/8"-1 1/4" (1 to 38)	1/8"-3/4" (3 to 26)
Temperature range °F (°C)				
-40° to +250°F (-40° to +120°C)	-40° to +250°F (-40° to +120°C)	-40° to +250°F (-40° to +120°C)	-40° to +284°F (-40° to +140°)	-40° to +284°F (-40° to +140°)
Electrically isolating				
No	No	No	Aluminium } Stainless Steel } Acetal Yes	Aluminium } Stainless Steel } Acetal Yes
Connection				
Clamp, Set Screw	Clamp or Set Screw	Clamp or Set Screw	Clamp or set screw	Clamp or Set Screw
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Product Overview

Step-Beam type	Sliding Disc type	Universal/Lateral type	Double Loop type	Jaw Coupling	Universal Joints & Teleshfts	Friction Clutches
 <p>Step-Beam</p> <p>Material Options: Nylon</p>	 <p>Oldham Blind bored</p>  <p>Thru' bored</p>  <p>Thru' bored</p> <p>Material Options: Aluminium Stainless Steel Brass</p>	 <p>Uni-Lat</p> 	 <p>Flex-P</p>  	 <p>Flex-G</p>	 <p>Huco-Pol Single joints</p>  <p>Double joints</p>  <p>Teleshfts</p>	 <p>Vari-Tork, Polyclutch Basic clutch</p>  <p>Basic clutch + Oldham coupling</p>

General description

<p>Unique coupling design gives excellent combination of radial flexibility with torsional stiffness.</p>	<p>General purpose, robust, easy to use 3-part couplings with replaceable wear elements. Generous radial compensation and pull-apart / re-engage facility for blind assemblies.</p>	<p>Unique, general purpose light duty couplings with generous angular and radial misalignment compensation. Resist axial motion, can anchor unrestricted shafts and perform light push/pull duties.</p>	<p>Exceptional flexibility in all three directions, radial, angular and axial.</p>	<p>High torque capacity and high speed are available from this naturally balanced coupling.</p>	<p>Light duty plastic universal joints and extensible drive shafts (teleshfts). Low mass, corrosion resistant, ideal where conventional steel joints would be under-utilized.</p>	<p>Small, user-adjustable torque limiters for concentric or in-line mounting. Operate by friction using interleaved clutch plates.</p>
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Where to use

<p>Encoders, tachogenerators, small pumps, motors and drives.</p>	<p>Stepper drives for most applications including positioning slides, pumps, actuators, etc.</p>	<p>Encoder, resolver, tacho, potentiometer drives. Small positioning slides, dosing pumps, & light drives generally.</p>	<p>Light power drives, pumps and small generators.</p>	<p>Light power drives where misalignment is small.</p>	<p>Intermittent applications in business machines, instrumentation, lab equipment, analytical apparatus, etc., where steel joints would be under-utilized.</p>	<p>Friction clutches interrupt rotation when the load being transmitted reaches a pre-determined threshold. Used in all kinds of small drives to help protect personnel and equipment.</p>
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Speeds

Up to 10000 rpm.	Up to 3000 rpm.	Up to 3000 rpm.	Up to 3000 rpm.	Up to 40,000 rpm.	Up to 1000 rpm.	Up to 1000 rpm slipping speed.
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Peak torque largest size lbs.-in (Nm)

221 (25)	389 (44)	106 (12)	159 (18)	1177 (133)	95 (10.7)	531 (60)
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Standard bores in. (mm)

1/8"-1/2" (3 to 12.7)	1/8"-1" (2 to 30)	1/8"-3/4" (3 to 22)	1/8"-5/8" (3 to 16)	1/8"-5/8" (3 to 16)	1/8"-3/4" (3 to 20)	1/4"-1 1/4" (6 to 32)
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Temperature range

-4 to +300°F (-20 to +150°C)	-4 to +140°F (-20 to +60°)	-4 to +140°F (-20 to +60°)	-40 to +210°C (-40 to +100°)	-40 to +180°F (-40 to +80°)	-4 to +140°F (-20 to +60°)	-14 to +180°F (when operating) (-10 to +80°) (when operating)
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Electrically isolating

Yes	Yes	Yes	Yes	Yes	Yes	No
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Connection

Clamp or Set Screw	Clamp or Set Screw	Clamp or Set Screw	Set Screw	Clamp or Set Screw	Set Screw, Bonding, or Cross-Pinning	Clamp or Set Screw
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