Contents

		Stainless Steel	Nickel						
Huco	5	Bellows type	Bellows type	Membrane type	Multi-Beam type	Single-Beam type			
Huco Engineering Industries Ltd. Merchant Drive, Hertford, SG13 7BL UK Tel: +44 (0)1992 501900 Fax: +44 (0)1992 509890 440 North Fifth Avenue Chambersburg, PA 17201 - USA Tel: (888) 829 6637 Fax: (717) 264 6420 Web: www.huco.com	Product Overview	Flex B Flex BK	Flex Ni	Flex M Single-stage Short two-stage Long two-stage	Multi-Beam 6-Beam	Single-Beam			
Email: sales@huco.com		œ F			Material Options: Aluminium Stainless Steel Acetal	Material Options: Aluminium Stainless Steel			
PRODUCT OVERVIEW		Precision couplings with	Precision couplings with	General description Precision couplings with	General purpose single piece	More flexible than			
SELECTING FLEXIBLE COUPLINGS 4 -	_	excellent kinematic properties. The 3 types offer differing combinations of stiffness, radial compensation and axial motion.	excellent kinematic properties. The 3 types offer differing combinations of stiffness, radial compensation and axial motion.	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	couplings Single stage (3-beam) Two stage (6-beam) Material options for moisture and corrosion resistance.	Multi-Beam but less torsional rigidity.			
				loads respectively.					
HIGH PERFORMANCE COUPLINGS		Where to use							
GENERAL PURPOSE MOTION CONTROL COUPLINGS 	80	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.			
BEAM COUPLINGS	18	Speeds							
Single Beam, Multi-Beam, Step Beam LIGHT POWER DRIVE COUPLINGS	56	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			
Jaw (Spider), Double Loop, Nylon Sleeve Gear		Peak torque largest size lbsin (Nm)							
PLASTIC UNIVERSAL JOINTS & TELESHAFTS	_	4425 (500)	110.6 (12.5)	885 (100)	1239 (140)	266 (30)			
	62	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)							
ADJUSTABLE FRICTION CLUTCHES 63 - 6 Huco Vari-Tork, Slip Clutches	68	-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°)			
	_	No	No	Electrically isolating	Aluminium 1	Aluminium 1			
BORE ADAPTORS	70	No	No	No	Aluminium } No Stainless Steel } No Acetal Yes	Aluminium } Stainless Steel } No Acetal Yes			
	_	Connection							
FORMULAE & CONVERSION FACTORS 71 - 7 For Motion Transfer	3	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 & Teleshafts	Clutches								
Step-Beam	Oldham Blind bored Thru' bored Thru' bored Thru' bored Material Options: Aluminium Stainless Steel	Uni-Lat	Flex-P	Flex-G	Huco-Pol Single joints Double joints Teleshafts	Vari-Tork F Basic clutch Basic clutch + Oldham coupling Control - Control -								
	Brass		~		C.	~~~~								
			General description											
Unique coupling design gives excellent combination of radial flexibility with torsional stiffness.	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.	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.	Exceptional flexibility in all three directions, radial, angular and axial.	High torque capacity and high speed are available from this naturally balanced coupling.	Light duty plastic universal joints and extensible drive shafts (teleshafts). Low mass, corrosion resistant, ideal where conventional steel joints would be under-utilized.	Small, user-adjustable torque limiters for concentric or in-line mounting. Operate by friction using interleaved clutch plates. Small ball detent design compact available in three configurations.								
Where to use														
Encoders, tachogenerators, small pumps, motors and drives.	Stepper drives for most applications including positioning slides, pumps, actuators, etc.	Encoder, resolver, tacho, potentiometer drives. Small positioning slides, dosing pumps, & light drives generally.	Light power drives, pumps and small generators.	Light power drives where misalignment is small.	Intermittent applications in business machines, instrumentation, lab equipment, analytical apparatus, etc., where steel joints would be under- utilized.	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.								
	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.								
Peak torque largest size lbsin (Nm)														
221 (25)	389 (44)	106 (12)	159 (18)	1177 (133)	95 (10.7)	106 (12)								
			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)	5/8" (16)								
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)								
			Electrically isolating			(10 to Too / (which operating)								
Yes	Yes	Yes	Yes	Yes	Yes	No								
	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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