

**HUCO FLEXIBLE COUPLERS**

Flexible couplers can tolerate misalignments and axial motion and protect the shaft support bearings from destructive radial and thrust loads.

<b>OLDHAM</b> Sliding disc type	<b>MULTI-BEAM</b> Multi-helix beam type	<b>FLEX-B</b> Bellows type	<b>FLEX-M</b> Membrane type
			
General Description			
General purpose, robust, easy to use 3-part couplers with replaceable wear elements (2 hubs and 1 torque disc). This type can tolerate large misalignments with flex-free mechanical action featuring non-progressive bearing loads. Isolates noise and vibration, especially with nylon disc.	Multi-Beam couplers provide misalignment compensation and axial compliance. This type offers the high torque with small dimensions.	Precision couplers with excellent kinematic properties. The 3 types (short, long and stretched types) offer differing combination of stiffness, radial compensation and axial motion. They are suitable for high speed applications.	Precision couplers with excellent kinematic properties. Dynamically balanced construction and the tolerant flexural system for highly dynamic position and velocity control systems.
Where to Use			
The best choice for stepper motor systems; the other applications involving speeds up to 3 000 rpm.	Suitable for applications with place deficiency and axial stiffness requirement.	Highly dynamic applications and velocity control systems (servo drives, etc.).	
Speeds (in standard form)			
up to 3 000 rpm	up to 5 000 rpm	up to 5 000 rpm	up to 5 000 rpm
Peak Torque Largest Size			
44 Nm	140 Nm	12,5 Nm	60 Nm
Standard Bores			
2 - 30 mm	2 - 38 mm	3 - 20 mm	3 - 28 mm
ADDITIONAL FLEXIBLE COUPLER TYPES			
<b>UNI-LAT (Universal / lateral type)</b> - general purpose light duty couplers with generous angular and radial misalignment compensation, resistance to axial motion			
<b>HUCO-POL (Universal joint &amp; teleshafts)</b> - light duty plastic universal joints and extensible drive shafts (teleshafts)			
<b>VARI-TORK (Friction clutches)</b> - small, user-adjustable torque limiters for concentric or in-line mounting			

The popular Oldham flexible couplers for most stepper motor applications:

Description	S13 (2x232.13+disc)	XY19 (2x453H19+disc)	XY25 (2x452H25+disc)	XY41 (2x452H41+disc)	XY57 (2x452H57+disc)
Max. recommended stepper motor static torque for typical applications (Nm)	0,15	0,35	1,5	11	30
Outer diameter (mm) [length (mm)]	12,7 [15,9]	19,1 [26]	25,4 [32,4]	41,3 [50,8]	57,1 [78]

The Huco Engineering product catalogue is available for further details. See the effective price list for stock items.