



# Plastic Universal Joints and Teleshafts

- Backlash-free up to 10<sup>8</sup> turns
- Low mass
- Low inertia
- Corrosion resistant
- Electrically isolating
- No maintenance

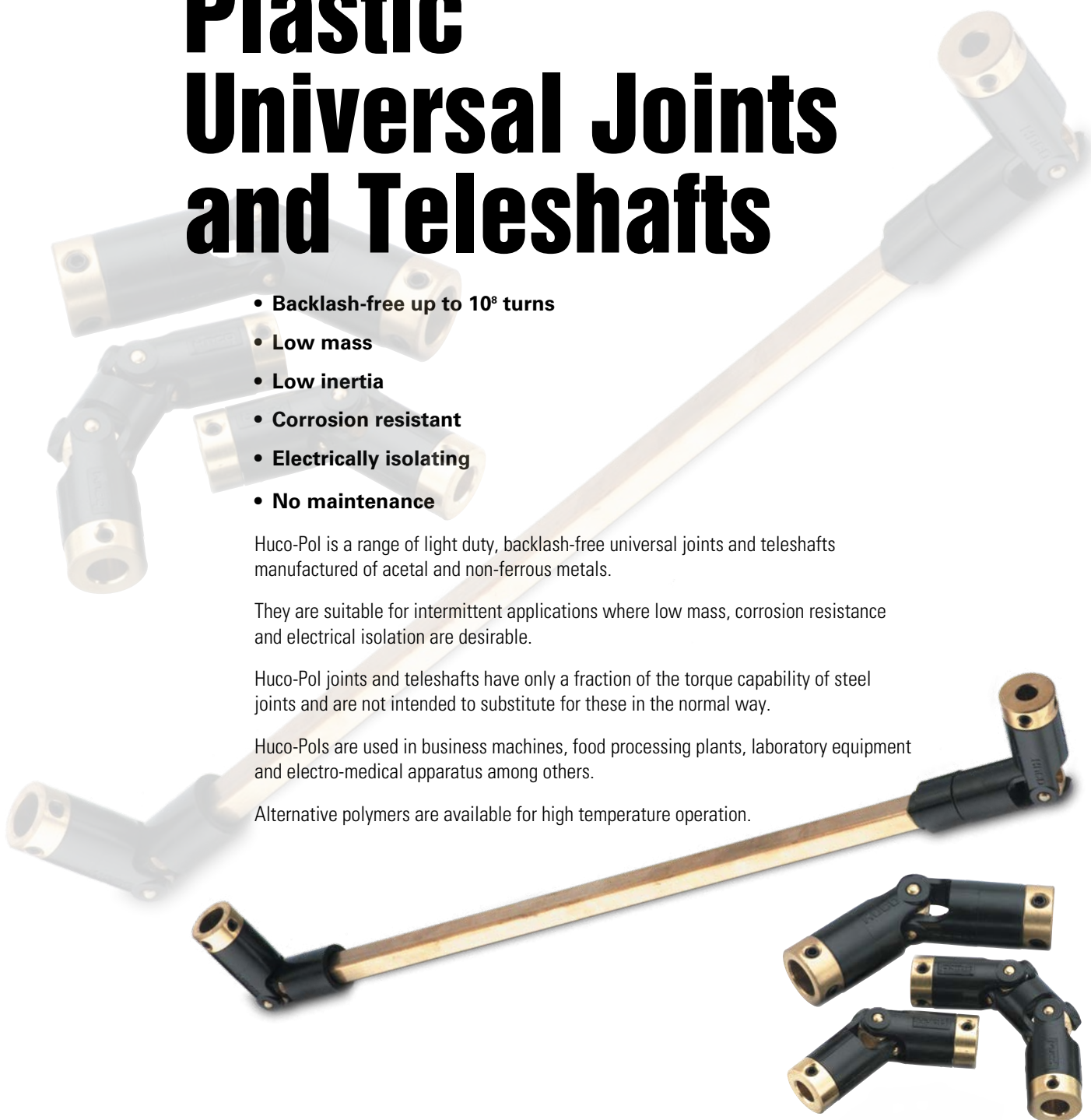
Huco-Pol is a range of light duty, backlash-free universal joints and teleshafts manufactured of acetal and non-ferrous metals.

They are suitable for intermittent applications where low mass, corrosion resistance and electrical isolation are desirable.

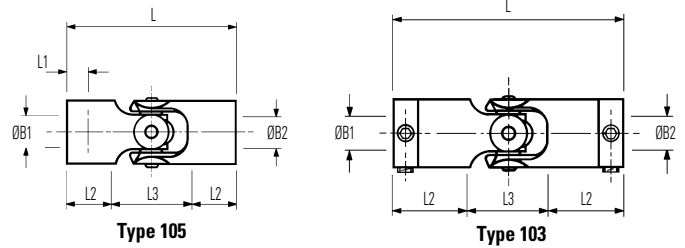
Huco-Pol joints and teleshafts have only a fraction of the torque capability of steel joints and are not intended to substitute for these in the normal way.

Huco-Pols are used in business machines, food processing plants, laboratory equipment and electro-medical apparatus among others.

Alternative polymers are available for high temperature operation.



## Plastic Universal Joints



### SINGLE JOINTS - DIMENSIONS & ORDER CODES

Size	Order Code	Dimensions								Fasteners		
		OD mm	L mm	L1 mm	L2 mm	L3 mm	B1, B2 Max mm	Moment of inertia kgm <sup>2</sup> x 10 <sup>-8</sup>	Mass kg x 10 <sup>-3</sup>	Size	Torque Nm	A/F mm
06	103.06	7.1	27.2	-	9.3	8.6	3.18	1.1	3.1	M3	0.94	1.5
09	103.09	11.1	37.6	-	13.1	11.4	5.0	13.5	9.3	M3	0.94	1.5
13	103.13	14.3	46.2	-	15.7	14.8	6.35	44.6	17.7	M3	0.94	1.5
16	103.16	17.5	67.6	-	22.3	23.0	10.0	136	35	M4	2.27	2.0
20	105.20	23.0	62.0	8.0	17.0	28.0	12.7	147	25.7	-	-	-
25	105.25	28.5	74.0	10.0	20.0	34.0	14	463	56	-	-	-
32	105.32	36.5	86.0	10.0	21.0	44.0	20	1339	103	-	-	-

### SINGLE JOINTS - PERFORMANCE at 20°C

Size	Peak Torque Nm	Static Break Torque Nm	Torsional Rate deg/Nm	Torsional Stiffness Nm/Rad	Max angular compensation @ 1000 rev/min	Max axial loading N
06	0.11	0.45	19.7	2.9	45	18
09	0.36	1.9	6.8	8.4	45	38
13	0.85	4.5	3.2	18	45	67
16	1.6	6.8	1.7	34	45	98
20	2.8	17	0.94	61	40	138
25	5.6	34	0.51	112	40	222
32	10.7	72	0.25	229	40	334

FOR STANDARD BORES SEE FACING PAGE

### Materials & Finishes

<b>Bodies:</b>	Acetal
<b>Cross-pieces:</b>	103, 111 = Brass Cu Zn 21 Si 3P (Lead Free) 105 = CZ122
<b>Bore Inserts:</b>	103, 111 = Brass Cu Zn 21 Si 3P (Lead Free) 105 = Al. Alloy 2014A T6 or 6026 LF
<b>Fasteners:</b>	Alloy steel, black oiled

### Operating Temperature Range

- 20°C to +60°C

### Maximum Rotational Speed

1000 rev/min