

TELESCOPING UNIVERSAL JOINTS

SDPSI

DOUBLE UNIVERSAL WITH BALL SPLINE
ZERO BACKLASH
ACCOMMODATES 6 mm AXIAL MOTION
LOW INERTIA

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MATERIAL:

- Body - Fig. 1 - 303 Stainless Steel
Fig. 2 - 440 Stainless Steel
- Balls - Fig. 1 & 2 - 440 Stainless Steel
- Ends and Flanges - Fig. 2 - 300 Series Stainless Steel



LUBRICATION:

Dry Film Plus Oil Suspension

FEATURES:

Zero backlash is attained with patented design and close dimensional control of components. Use where axial motion is present while transmitting rotary motion.

SPECIFICATIONS:

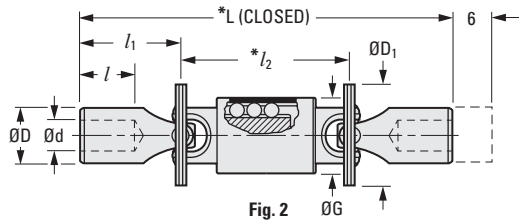
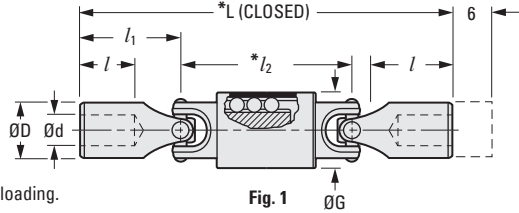
- Torque Ratings - For static conditions with in-line loading.
- Max. Operating Speed @ 0° - Fig. 1: 10000 rpm
Fig. 2: 4000 rpm
- Max. Operating Angle - Fig. 1: 60° @ 4000 rpm
Fig. 2: 40° @ 1800 rpm

d Bore Tolerance:

Fig. 1: +0.013/0, Fig. 2: +0.025/0

Travel of up to 100 mm on Fig. 1 units and 150 mm on Fig. 2 units available on special order.

Set screws available on special order.



METRIC COMPONENT

Catalog Number	D Dia.	d Bore	l Bore Depth	l ₁ End Unit	l ₂ * Center (Closed)	L* Length (Closed)	G Dia. Over Ball Race	D ₁ Dia.	Torque N • m
Fig. 1 Miniature									
S57PY5MDUT0205	4.76	2.5	4.8	9.5	19.1	38.1	7.9	—	0.11
S57PY5MDUT0305		3							
S57PY5MDUT0407	7.15	4	7.2	14.3	23.8	52.6	10.4	—	0.45
S57PY5MDUT0510	9.53	5	9.5	19.1	31.8	69.9	14.2		
S57PY5MDUT0610		6							
Fig. 2 Inverted Design									
S57PY4MDFUT0519	9.53	5	9.5	19.1	31.8	69.9	14.2	19.1	1.8
S57PY4MDFUT0619		6							
S57PY4MDFUT0724	12.71	7	11.1	25.4	57.2	108	25.4	35.1	3.4
S57PY4MDFUT0824		8							
S57PY4MDFUT1035	19.06	10	15.9	25.4	57.2	108	25.4	35.1	3.4
S57PY4MDFUT1248	25.41	12	22.2	33.5	63.2	130	38.1	47.8	8.5
S57PY4MDFUT1448		14							

*Closed dimensions for standard 6 mm of travel.

