

TORQUE LIMITERS



Manufactured & Marketed by :

TRANSMATIX

Admn. Off.: 106, Parth C.H.S.Ltd., Ganesh Peth Lane, Dadar (West), Mumbai – 400 028.
Tel.:/Fax : (022) 24376004, 24227887 Tel.: (022) 30900255
E-mail ID : satishdharap@vsnl.com, satishdharap@mtnl.net.in

Regd. Off.: 8, Govind Sadan, Shivaji Park Road No.4, Dadar (West), Mumbai – 400 028.
Tel.: (022) 24449606, 30901436.

Works : W-24, Old M.I.D.C., Satara – 415 004.
Tel.:/Fax : (02162) 248151 Tel.: (02162) 320751

www.transmatix.com
www.gearboxes-india.com

• INTRODUCTION

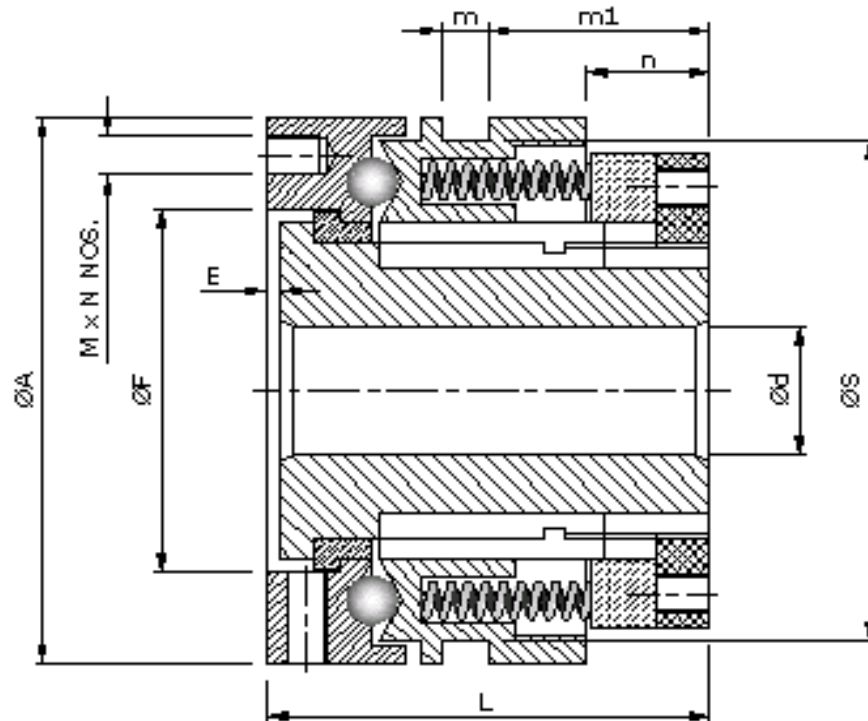
TRANSMATIX, a leading manufacturer of Planetary Gear Drives, has come out with specially designed Torque Limiters. TRANSMATIX MAKE Torque Limiter is a device which accurately and reliably protects the overloading of all types of machineries. It can be fitted between the prime mover and the equipment or at any intermediate stage. Its applications are innumerable and can be used for almost any application, thereby preventing the damage to the main equipment due to overloading. It can be used as a coupling or can be mounted to take chain sprockets, gears, pulleys etc.

• WORKING PRINCIPLE

The driving and the driven components are engaged with each other through a set of hardened and ground alloy steel balls and are pressed against each other by an adjustable spring force (please see the cross-sectional drawing). Whenever the driven component gets overloaded, the driving member moves axially against the set spring force and slips, thereby engaging in the next ball groove. This axial movement must be sensed by a limit switch fitted in gap 'm' (as shown) and should send a signal to cut off the main drive. The Torque Limiter is not supposed to slip continuously, as it can damage the internal components. It should not be used as ratcheting clutch.

• SETTING

The pressure adjusting nut of the Torque Limiter should be loosened. The Torque Limiter should be fitted in place. The nut should be tightened to the extent that it just takes the peak load without slipping. Now for any overload beyond this limit, the Torque Limiter would slip and cut off the main drive.



SELECTION & DIMENSION CHART

Model	Torque Range	Pilot Bore		A	F	S	P	L	E	M	m	m1	n
		d	dmax										
	Kg-m	mm	Mm	mm	mm	mm	mm	Mm	mm	mm	mm	mm	mm
TL 02-20	02-20	7	24	85	57	78	73	67	2	M6	7	33.5	18.5
TL 10-40	10-40	14	35	112	76	102	95	93	3.5	M8	12	39	23
TL 20-80	20-80	28	50	145	109	135	128	99	3.5	M10	12	41	23
TL 40-140	40-140	38	65	175	132	165	158	106	3.5	M12	12	43	27