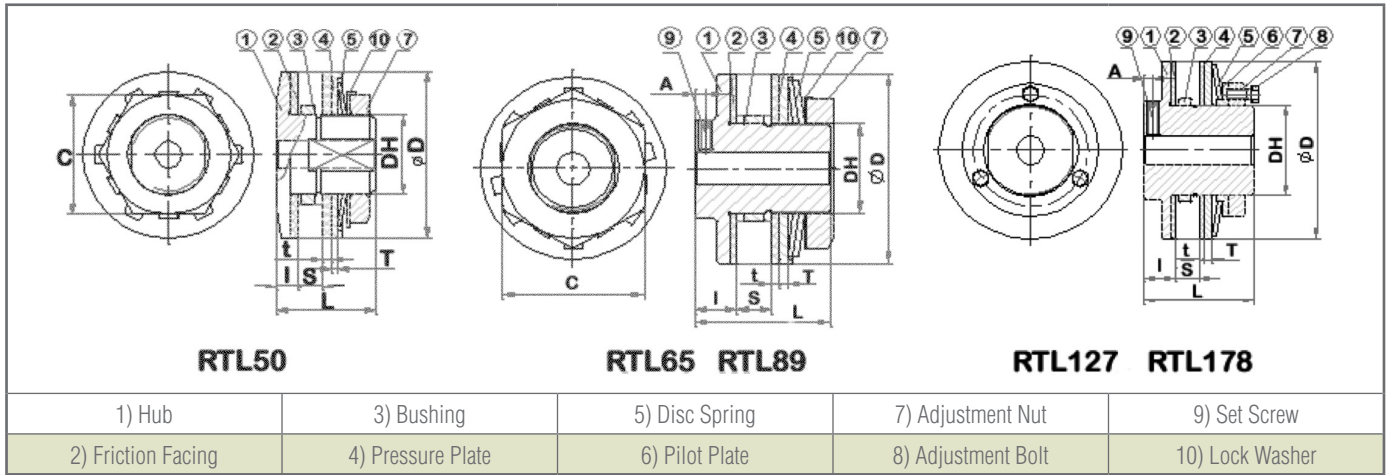


Chain and Drives Torque Limiter has been designed to protect drive systems from unnecessary overload. When too much torque is transmitted through a drive, the Torque Limiter automatically slips on its shaft when a predetermined torque level is reached.

This device is suitable in situations where there is excessive and unpredictable shock loads, overloads or machine jams. When the problem in the system is overcome or removed, the Torque Limiter automatically reengages, unlike other devices, such as those with shear pin mechanisms, which have to be manually reset.

Torque Limiters not only prevent damage to drive systems but also eliminates unnecessary downtime due to system resets.

The Torque Limiter utilizes spring loaded friction surfaces, the slip torque is preset by the adjustment of the spring force, this is as simple as tightening or loosening the appropriate nut or bolt.



Size	Torque Range (kgf-m)	Plain Bore	Max Bore	Bush Length	OD of Bush	Bore for Centre Member	D	DH	L	L	T	t	S (Max)	A	C	Adjust. Nut	Adjust. Bolt	Set Screw	(kg)		
RTL50-1	0.3 ~ 1.0	8	14	3.8	30	-0.020	30	+0.033	50	24	29	6.5	1.6	2.5	7	-	36	M24	-	-	0.248
RTL50-2	0.7 ~ 2.0			6	-0.041	0												P1.0	-	-	0.256
RTL65-1	0.7 ~ 2.8	10	22	6	41	-0.025	41	+0.039	65	35	48	16	4	3.2	9	4	50	M35	-	M5	0.721
RTL65-2	1.4 ~ 5.5			8	-0.050	0												P1.5	-	M5	0.739
RTL89-1	2.0 ~ 7.6	17	25	6	49	-0.025	49	+0.039	89	42	62	19	4	3.2	16	5	65	M42	-	M6	2.417
RTL89-2	3.5 ~ 15.2			8	-0.050	0												P1.5	-	M6	2.477
RTL127-1	4.8 ~ 21.4	20	42	6	74	-0.030	74	+0.046	127	65	76	22	6	3.2	16	6	-	M65	M8	M8	3.692
RTL127-2	9.0 ~ 42.9			8	-0.060	0												P1.5	M8	M8	3.858
RTL178-1	11.8 ~ 58.1	30	64	8	105	-0.036	105	+0.054	178	95	98	24	7	3.2	29	6.5	-	M95	M10	M10	9.033
RTL178-2	22.8 ~ 111			9.5	-0.071	0												P1.5	M10	M10	9.436

Selection

Determine the required slip torque from the loading conditions or from the design strength of the machine. If the loading conditions of the machine are unknown, set the required slip torque of the torque limiter to 1.5~2 times the torque that the motor produces on the shaft where the torque limiter is mounted.

Select a Torque Limiter that has enough torque range and bore range.

Determine the proper bushing length from the thickness of the centre member to be inserted between the friction facings. Always choose the largest bushing which does not exceed the width of the centre member, shown as S Max in the dimension table.