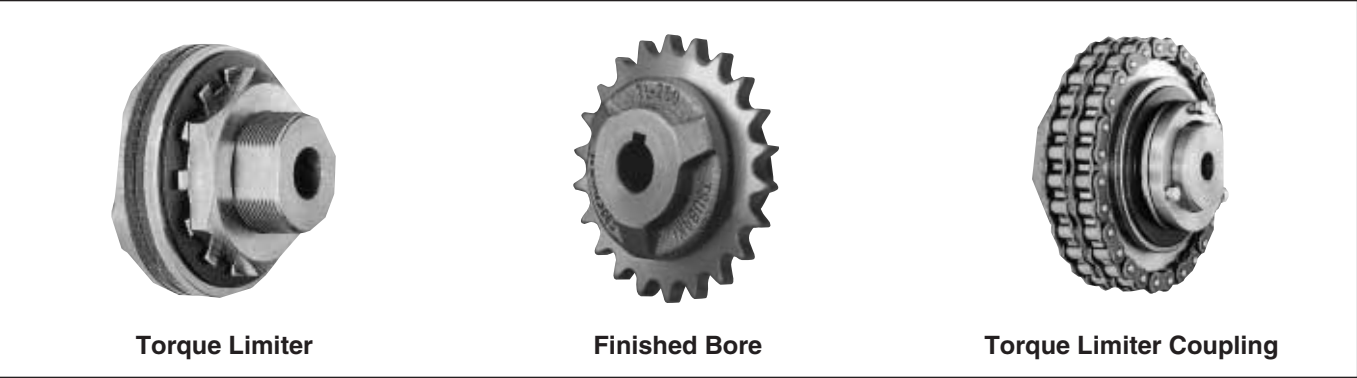


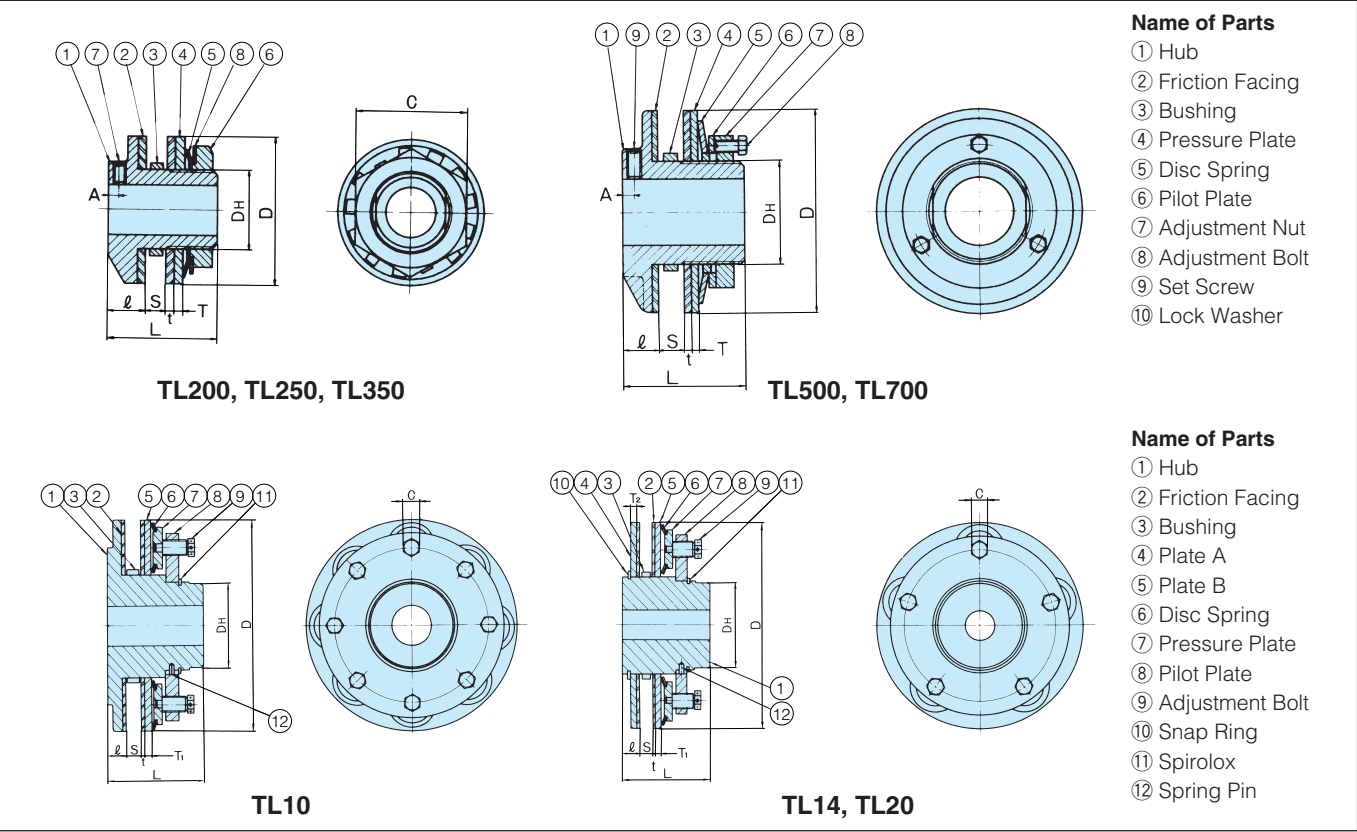
Tsubaki Emerson Torque Limiter

Tsubaki Emerson Torque Limiter is the most economical overload protection device, which utilizes the friction mechanism. It can be used with a sprocket, gear, sheave or flange plate as the center member clamped between two friction facings. Tsubaki Emerson has finished bore series with sprocket as the standard product line. It will help to remove processing for the shaft bore and preparing the sprocket.

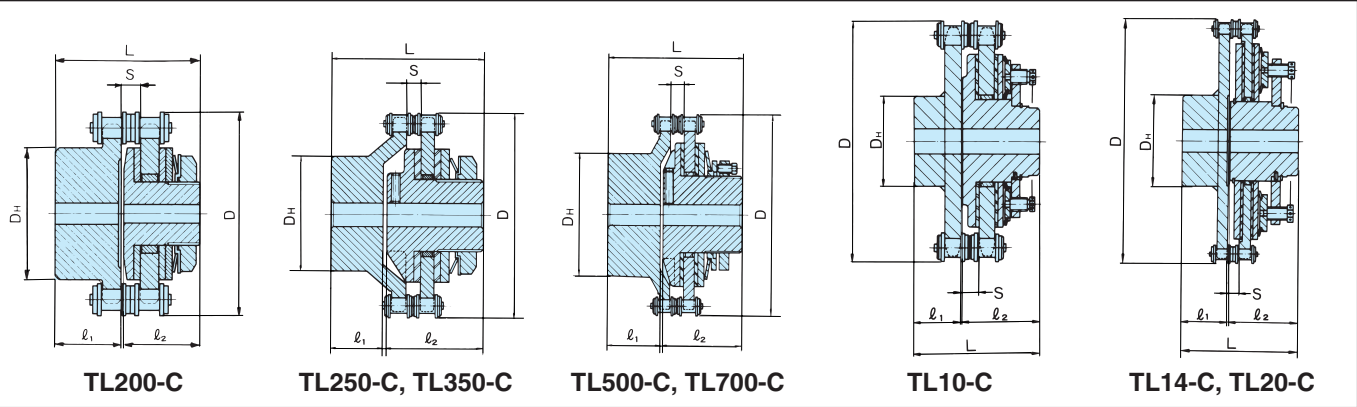
Tsubaki Emerson Torque Limiter is the easiest to use and the economical overload protection device.



Torque Limiter



Torque Limiter Coupling



Capacity and Dimension of Torque Limiter

Dimensions in mm																		
Model	Torque Range (Nm)	Pilot Bore	Max. Bore	Bushing Length	O.D. of Bushing	Bore for Center Member	D	DH	L	I	T	T1	T2	t	S (max.)	A	C	Mass (kg)
TL200-1L	1.0~2.0	7	14	3.8 6.0	30 ^{-0.024 -0.049}	30 ^{+0.03 0}	50	24	29	6.5	2.6	—	—	2.5	7	—	38	0.2
TL200-1	2.9~9.8																	
TL200-2	6.9~20																	
TL250-1L	2.9~6.9	10	22	4.5 6.5	41 ^{-0.010 -0.045}	41 ^{+0.05 0}	65	35	48	16	4.5	—	—	3.2	9	4	50	0.6
TL250-1	6.9~27																	
TL250-2	14~54																	
TL350-1L	9.8~20	17	25	4.5 6.5 9.5	49 ^{-0.025 -0.065}	49 ^{+0.05 0}	89	42	62	19	4.5	—	—	3.2	16	6	63	1.2
TL350-1	20~74																	
TL350-2	34~149																	
TL500-1L	20~49	20	42	6.5 9.5	74 ^{-0.05 -0.10}	74 ^{+0.05 0}	127	65	76	22	6.0	—	—	3.2	16	7	—	3.5
TL500-1	47~210																	
TL500-2	88~420																	
TL700-1L	49~118	30	64	9.5 12.5	105 ^{-0.075 -0.125}	105 ^{+0.05 0}	178	95	98	24	8.0	—	—	3.2	29	8	—	8.4
TL700-1	116~569																	
TL700-2	223~1080																	
TL10-16	400~1240	30	72	12.5 15.5 19.5	135 ^{-0.085 -0.125}	135 ^{+0.07 0}	254	100	115	23	—	8.5	—	4.0	24	—	19	21
TL10-24	590~1860																	
TL14-10	890~2660	40	100	15.5 19.5 23.5	183 ^{-0.07 -0.12}	183 ^{+0.07 0}	356	145	150	31	—	13	13	4.0	29	—	27	52
TL14-15	1960~3920																	
TL20- 6	2450~4900	50	130	15.5 19.5 23.5	226 ^{-0.07 -0.12}	226 ^{+0.07 0}	508	185	175	36	—	15	18	4.0	31	—	36	117
TL20-12	4610~9310																	

Shaft Bore Size of Finished Bore series

Model	Stock Bore Size (H7) in mm
TL200	11. 12. 14
TL250	12. 14. 15. 16. 18. 19. 20. 22
TL350	18. 19. 20. 22. 24. 25
TL500	22. 24. 25. 30. 35. 38. 40. 42
TL700	35. 40. 42. 45. 50. 55. 60. 63. 63



The key profile should be accordance with DIN 6885.3.

Capacity and Dimension of Torque Limiter Coupling

Model	Torque Range (Nm)	Max. Running Speed (r/min)	Pilot Bore		Max. Bore		Sprocket	D	D _H	L	I ₁	I ₂	S	Mass (kg)
			Sprocket	TL	Sprocket	TL								
TL200-1LC	1.0~2.0	1200	8	7	31	14	RS 40-16T	76	50	55	24	29	7.5	1.0
TL200-1C	2.9~9.8													
TL200-2C	6.9~20													
TL250-1LC	2.9~6.9	1000	13	10	38	22	RS 40-22T	102	56	76	25	48	7.4	1.9
TL250-1C	6.9~27													
TL250-2C	14~54													
TL350-1LC	9.8~20	800	13	17	45	25	RS 50-24T	137	72	103	37	62	9.7	4.2
TL350-1C	20~74													
TL350-2C	34~149													
TL500-1LC	20~49	500	18	20	65	42	RS 60-28T	188	105	120	40	76	11.6	10.0
TL500-1C	47~210													
TL500-2C	88~420													
TL700-1LC	49~118	400	23	30	90	64	RS 80-28T	251	150	168	66	98	15.3	26.0
TL700-1C	116~569													
TL700-2C	223~1080													
TL10-16C	400~1240	300	33	30	95	72	RS140-22T	355	137	189	71	115	26.2	66.0
TL10-24C	590~1860													
TL14-10C	890~2660													
TL14-15C	1960~3920	200	28	40	118	100	RS160-26T	470	167	235	80	150	30.1	140.0
TL20- 6C	2450~4900													
TL20-12C	4610~9310													