Ubet Machinery Torque Limiter

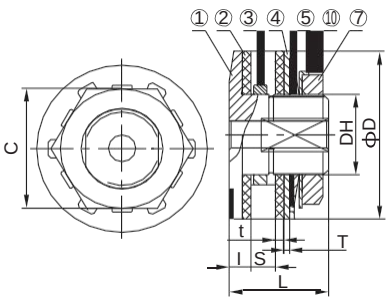
In case of sudden loading, over loading or power off in transmission system, Ubet Torque Limiter will slide automatically to protect the equipment. When the loading come back to normal, the device will automatically work again without adjusting or setting. Ubet Torque limiter operates through the spring mounted upon the friction facing. The sliding torque can be preset by adjusting the nut or bolt. The torque limiter can be sued matching with the center parts clamped closely between tow friction faces, such as sprockets, gears, pulleys or flanges.

Comparing with one-time safety pin system, Ubet Torque Limiter operates in line with appropriate spring loading and surface pressure to ensure the comparatively longer sliding time, recovering the presetting, and longer and continual protection as well. Ubet Torque Limiter is widely used in baking, bottling, food processing, machine tool, material handling, mining, packaging or printing industries.

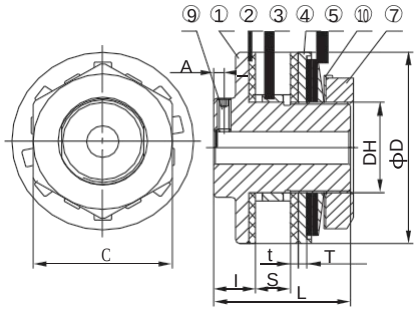
1. Precise overload protection
2. Easy manual adjustment
3. Factory torque setting available
4. Bored to fit for easy installation



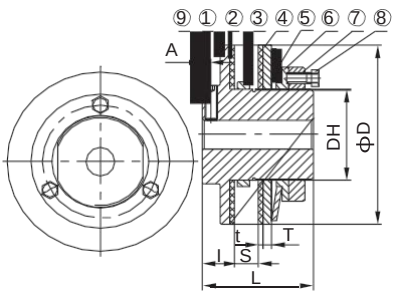




RTL50



RTL65 RTL89



RTL127 RTL178

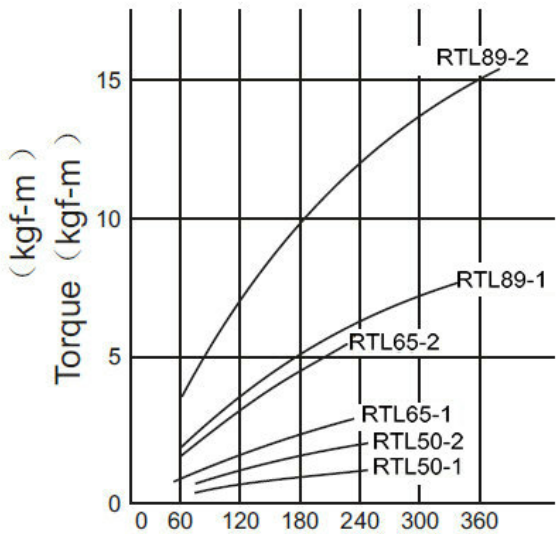
◇ Name of parts：

① Hub
② Friction facing
③ Bushing
④ Pressure Plate
⑤ Disc Spring
⑥ Pilot Plate
⑦Adjustment Nut
⑧Adjustment Bolt
⑨Set Screw
⑩Lock Washer

Model	Torque Range (Nm)	Pilot Bore	Max. Bore	Bushing Length	Bushing O.D.	Center part maching bore	D	DH	L	l	T	t	S max	A	C	Weight	Adjust. Bolt
RTL50-1	2.9~9.8	8	14	3.8 4.5 6	$30^{-0.020}_{-0.041}$	$30^{+0.033}_{0}$	50	M24	29	6.5	1.6	2.5	7	-	36	0.26	-
RTL50-2	6.9~20																
RTL65-1	6.9~27	10	22	4.5 6 8	$41^{-0.025}_{-0.050}$	$41^{+0.039}_{0}$	65	M35	48	16	4	3.2	9	4	50	0.74	-
RTL65-2	14~ 54																
RTL89-1	20~ 74	17	25	6 8 14.5	$49^{-0.025}_{-0.050}$	$49^{+0.039}_{0}$	89	M42	62	19	4	3.2	16	5	65	2.48	-
RTL89-2	34~ 149																
RTL127-1	47~ 210	20	42	6 9.5 14.5	$74^{-0.030}_{-0.060}$	$74^{+0.046}_{0}$	127	M65	76	22	6	3.2	16	6	-	3.85	M8xP1.0 3pcs
RTL127-2	88~ 420																
RTL178-1	116~ 569	30	64	8 14.5 22	$105^{-0.036}_{-0.071}$	$105^{+0.054}_{0}$	178	M95	98	24	7	3.2	29	6.5	-	9.44	M10xP1.0 3pcs
RTL178-2	223~ 1080																

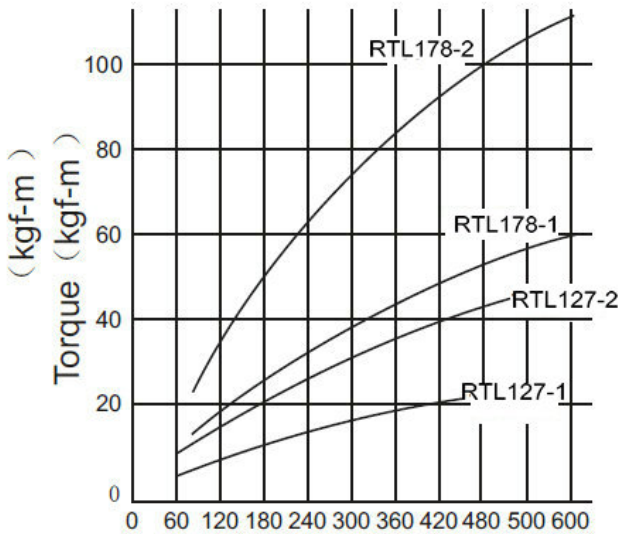
rotated angle and setting torque

RTL50 RTL65 RTL89



Rotated angle(degrees)

RTL127 RTL178



Rotated angle(degrees)