

## Finished bore Torque Limiter with sprockets



■ **Finished bore Torque Limiter and finished sprockets are available for quick delivery. If sold as a combination, torque is pre-set before shipment.**

■ **With sprocket**

Sprocket comes standard with TL200 to TL700.

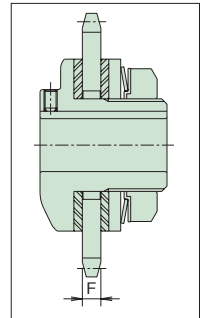
■ **Bores and keyways are already finished**

Bore finishing is standard for Torque Limiter TL200 to 700.

■ **Easy torque setting**

Because the adjustable nut or adjustable bolt is set at the predetermined 120°, it is easy for the customer to set torque.

\* The torque setting is determined using a static torque tester.



## Sprocket and bore finishing dimension table

Torque Limiter Model No.	Finished bore diameter(mm)		Sprockets					Mass (kg)	
			Type	F(mm)	Bush length (mm)	No. of teeth			
TL200	11,12,14,	10	RS35	4.3 – $\frac{0}{0.25}$	3.8	20,21,22,23,24,25,26,27,28,30		–	0.3
			RS40	7 – $\frac{0}{0.35}$	6.0	16,17,18,19,20,21,22,23,24,25,26		–	0.33
TL250	12,14,15,16,18,19,20,22	17	RS40	7 – $\frac{0}{0.35}$	6.5	22,23,24,25,26,27,28,30		21,32	0.85
			RS50	7 – $\frac{0}{0.25}$	6.5	18,19,20,21,22,23,24,25,26,27,28		17	0.92
TL350	18,19,20,22,24,25	–	RS40	7 – $\frac{0}{0.35}$	6.5	26,27,28,30,32,34,35,36,38		40,42,45	1.55
			RS50	7 – $\frac{0}{0.25}$	6.5	22,23,24,25,26,27,28,30,32		21,34,35,36	1.68
			RS60	10 – $\frac{0}{0.30}$	9.5	–		18,19,20,21,22,23,24,25,26,27,28,30	1.91
TL500	22,24,25,28,30,32,35,38,40,42	29,33,36	RS50	7 – $\frac{0}{0.25}$	6.5	30,32,34,35,36,38,40,42,45		48,50	4.3
			RS60	10 – $\frac{0}{0.30}$	9.5	25,26,27,28,30,32,34,35,36,38		40	4.7
			RS80	13 – $\frac{0}{0.30}$	9.5	–		19,20,21,22,23,24,25,26,27,28,30	5.2
TL700	35,40,42,45,50,55,60,63,64	32,33,36,38,43,46,48,52,56,57	RS60	10 – $\frac{0}{0.30}$	9.5	35,36,38,40,42,45,48,50,54		–	10.7
			RS80	13 – $\frac{0}{0.30}$	12.5	26,27,28,30,32,34,35,36,38		–	11.2
			RS100	16.5 – $\frac{0}{0.30}$	12.5	–		21,22,23,24,25,26,27,28,30	12.2
Delivery	*1	*1				*1	*2	–	

Delivery \*1 = Ex-Japan 4weeks by sea

\*2 = Ex-Japan 6weeks by sea

1. Delivery dates are listed in each column. If ordering the finished bore and with sprocket combination, the longer time of delivery applies.

2. If a finished bore is a size other than that listed in the chart above or hardened teeth are needed, it may be possible to provide this. Contact TEM for a consultation.

3. The thickness of sprocket F is different from the thickness of the standard sprocket. Ex-Japan 4weeks by sea

4. For Torque Limiter dimensions, refer to pages 89 and 90.

5. The mass of the above is based on rough bore and minimum number of sprocket teeth.

6. On TL200, setting to the shaft by hexagon socket head set screw is not possible. Use a snap ring for the shaft or end plate.

## Model No.

**TL250 - 2 - 040 22 - 20J - 5.0**

Size      No. of disk springs      No. of sprocket teeth

Sprocket Model No.(RS40)      Bore diameter

New JIS key normal type

Set torque(Unit: kgf.m, no number if no torque setting)

## ■ Torque setting

• Torque setting is done at 120° on the "Tightening Amount - Torque Correlation Graph". When using the Torque Limiter, set the torque based on 120° with the adjusting nuts or bolts.

## ■ Bore diameter and keyway specifications

• The bore tolerance is H7.  
• The keyway is New JIS (JIS B 1301-1996) "normal type"  
• Set screws are included.

## ■ Chamfer and finish

Bore diameter	Chamfer dimensions
φ 25 and less	C0.5
φ 50 and less	C1
φ 51 and above	C1.5

