

TT-01 - Datasheet

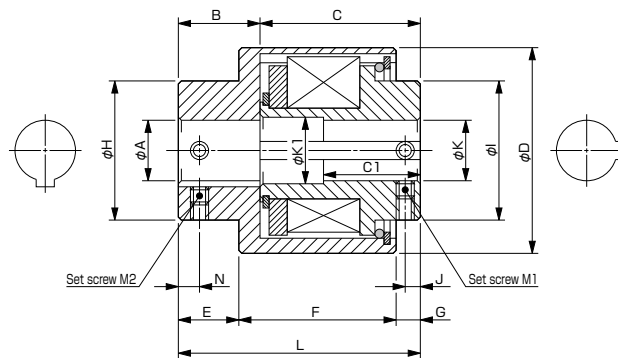
Torque Limiters / Two-shaft Butting Type

Specifications

Model	Size	Set torque value [N-m] (1500 min ⁻¹)										Misalignment		Max. rotation speed [min ⁻¹]	Moment of inertia [kg-m ²]	Mass [kg]
		0.2	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	Parallel [mm]	Angular [°]				
TT-1X-01	1X	0.2	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	0.2	0.5	1800	0.06 × 10 ⁻³	0.3	
TT-2-01	2	1	2	3	4	5	6	7	8	10	0.2	0.5	1800	0.26 × 10 ⁻³	0.7	
TT-2X-01	2X	2	3	5	8	10	12	15	18	20	0.2	0.5	1800	0.52 × 10 ⁻³	1.0	
TT-3-01	3	5	8	10	15	20	25	30	35	40	0.2	0.5	1800	1.23 × 10 ⁻³	1.5	
TT-3X-01	3X	10	16	20	30	40	50	60	70	80	0.2	0.5	1800	1.94 × 10 ⁻³	2.7	
TT-4X-01	4X	20	30	50	80	100	120	150	180	200	0.2	0.5	500	14.8 × 10 ⁻³	6.3	

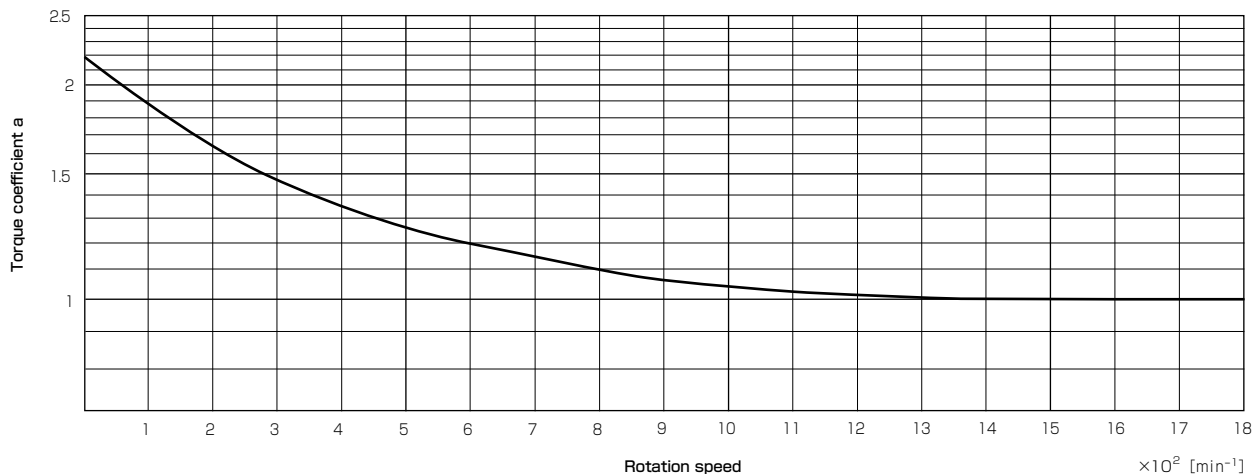
• The set torque values in the table above are those when the rotation speed is 1500 min⁻¹.
 • If you need durability for the torque values in the shaded area, select a larger size.

Dimensions



Size	K1	B	C	C1	D	E	F	G	H	I	J	L	N	M1	M2	Unit [mm]
1X	12.5	20	30	23	42	15	30	5	25	22	3	50	6	2-M4	2-M4	
2	16.5	24.5	41.5	32.5	55	20	35	11	35	32	5	66	7	2-M5	2-M5	
2X	20.5	31	45	34	65	25	40	11	40	38	5	76	8	2-M5	2-M5	
3	25.5	37.5	53.5	40	75	30	50	11	45	45	5	91	10	2-M6	2-M6	
3X	25.5	36	85	41	75	30	80	11	45	45	6	121	10	2-M6	2-M6	
4X	—	46	95	—	120	35	90	16	80	80	8	141	12	2-M10	2-M10	

Torque coefficient



Standard Bore Diameter \varnothing A

Model	Hole Drilling Standards	Standard bore diameter A [mm]																						
		8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50
TT-1X-01	Old JIS standards (Blank)	●	●	●	●	●																		
	New JIS standards (H)		●	●	●	●																		
	New motor standards (N)					●																		
TT-2-01	Old JIS standards (Blank)			●	●	●	●	●	●	●														
	New JIS standards (H)			●	●	●	●	●	●	●														
	New motor standards (N)					●				●														
TT-2X-01	Old JIS standards (Blank)					●	●	●	●	●	●	●												
	New JIS standards (H)					●	●	●	●	●	●	●												
	New motor standards (N)					●				●		●												
TT-3-01	Old JIS standards (Blank)								●	●	●	●	●	●	●	●								
	New JIS standards (H)								●	●	●	●	●	●	●	●								
	New motor standards (N)								●		●		●		●									
TT-3X-01	Old JIS standards (Blank)								●	●	●	●	●	●	●	●								
	New JIS standards (H)								●	●	●	●	●	●	●	●								
	New motor standards (N)								●		●		●		●									
TT-4X-01	Old JIS standards (Blank)								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	New JIS standards (H)								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	New motor standards (N)								●		●		●		●									●

Standard Bore Diameter \varnothing K

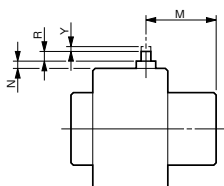
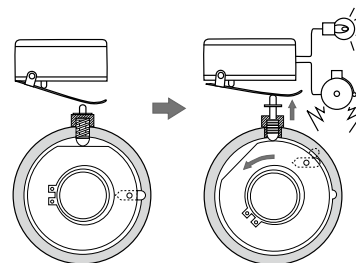
Model	Hole Drilling Standards	Standard bore diameter K [mm]																						
		8	10	11	12	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50
TT-1X-01	Old JIS standards (Blank)	●	●	●	●																			
	New JIS standards (H)		●	●	●																			
	New motor standards (N)																							
TT-2-01	Old JIS standards (Blank)			●	●	●	●	●																
	New JIS standards (H)			●	●	●	●	●																
	New motor standards (N)					●																		
TT-2X-01	Old JIS standards (Blank)					●	●	●	●	●	●													
	New JIS standards (H)					●	●	●	●	●	●													
	New motor standards (N)					●				●														
TT-3-01	Old JIS standards (Blank)								●	●	●	●	●	●										
	New JIS standards (H)								●	●	●	●	●	●										
	New motor standards (N)								●		●		●		●									
TT-3X-01	Old JIS standards (Blank)								●	●	●	●	●	●										
	New JIS standards (H)								●	●	●	●	●	●										
	New motor standards (N)								●		●		●		●									
TT-4X-01	Old JIS standards (Blank)								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	New JIS standards (H)								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	New motor standards (N)								●		●		●		●									●

* There is no keyway for bore diameter \varnothing 8 mm.

Option Signal Pin

Unattended or remotely controlled machines and equipment require equipment that detects an overload and automatically switches off the power or sounds a warning alarm.

An overload can be detected by connecting the signal pin to the torque tender. When an overload is detected, the input side and the output side are disconnected and the cam mechanism of the torque tender hub pushes the signal pin out in the radial direction. This can be used to switch off the power or sound a warning alarm.

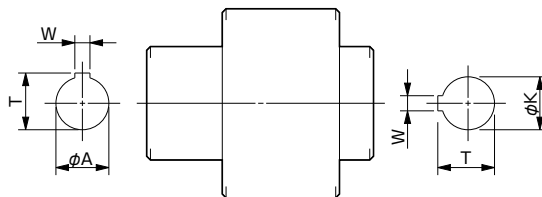


Size	M	Y	R	N
1X	24	1.5	6.5	5.5
2	29	2.5	5	4.5
2X	36	2.5	5	4.5
3	43	2.5	5	4.5
3X	42	2.5	5	4.5
4X	55	2.5	5	2

Standard Hole-Drillings

- The set screws are included with the product.
- For standard bore drilling dimensions other than those specified, please contact Miki Pulley.

TT(O1)



Unit [mm]

Models compliant with the old JIS standards (class 2)				Models compliant with the new JIS standards				Models compliant with the new motor standards			
Nominal bore diameter	Bore diameter $\phi A/\phi K$	Keyway width W	Keyway height T	Nominal bore diameter	Bore diameter $\phi A/\phi K$	Keyway width W	Keyway height T	Nominal bore diameter	Bore diameter $\phi A/\phi K$	Keyway width W	Keyway height T
Tolerance	H7	E9	$0.5/0$	Tolerance	H7	H9	$0.5/0$	Tolerance	G7	H9	$0.5/0$
8	8 $+0.015/0$	—	—	—	—	—	—	—	—	—	—
10	10 $+0.015/0$	4 $+0.050/+0.020$	11.5	10 H	10 $+0.015/0$	4 $+0.030/0$	11.8	—	—	—	—
11	11 $+0.018/0$	4 $+0.050/+0.020$	12.5	11 H	11 $+0.018/0$	4 $+0.030/0$	12.8	—	—	—	—
12	12 $+0.018/0$	4 $+0.050/+0.020$	13.5	12 H	12 $+0.018/0$	4 $+0.030/0$	13.8	—	—	—	—
14	14 $+0.018/0$	5 $+0.050/+0.020$	16.0	14 H	14 $+0.018/0$	5 $+0.030/0$	16.3	14 N	14 $+0.024/+0.006$	5 $+0.030/0$	16.0
15	15 $+0.018/0$	5 $+0.050/+0.020$	17.0	15 H	15 $+0.018/0$	5 $+0.030/0$	17.3	—	—	—	—
16	16 $+0.018/0$	5 $+0.050/+0.020$	18.0	16 H	16 $+0.018/0$	5 $+0.030/0$	18.3	—	—	—	—
18	18 $+0.018/0$	5 $+0.050/+0.020$	20.0	18 H	18 $+0.018/0$	6 $+0.030/0$	20.8	—	—	—	—
19	19 $+0.021/0$	5 $+0.050/+0.020$	21.0	19 H	19 $+0.021/0$	6 $+0.030/0$	21.8	19 N	19 $+0.028/+0.007$	6 $+0.030/0$	21.5
20	20 $+0.021/0$	5 $+0.050/+0.020$	22.0	20 H	20 $+0.021/0$	6 $+0.030/0$	22.8	—	—	—	—
22	22 $+0.021/0$	7 $+0.061/+0.025$	25.0	22 H	22 $+0.021/0$	6 $+0.030/0$	24.8	—	—	—	—
24	24 $+0.021/0$	7 $+0.061/+0.025$	27.0	24 H	24 $+0.021/0$	8 $+0.036/0$	27.3	24 N	24 $+0.028/+0.007$	8 $+0.036/0$	27.0
25	25 $+0.021/0$	7 $+0.061/+0.025$	28.0	25 H	25 $+0.021/0$	8 $+0.036/0$	28.3	—	—	—	—
28	28 $+0.021/0$	7 $+0.061/+0.025$	31.0	28 H	28 $+0.021/0$	8 $+0.036/0$	31.3	28 N	28 $+0.028/+0.007$	8 $+0.036/0$	31.0
30	30 $+0.021/0$	7 $+0.061/+0.025$	33.0	30 H	30 $+0.021/0$	8 $+0.036/0$	33.3	—	—	—	—
32	32 $+0.025/0$	10 $+0.061/+0.025$	33.5	32 H	32 $+0.025/0$	10 $+0.036/0$	35.3	—	—	—	—
35	35 $+0.025/0$	10 $+0.061/+0.025$	38.5	35 H	35 $+0.025/0$	10 $+0.036/0$	38.3	—	—	—	—
38	38 $+0.025/0$	10 $+0.061/+0.025$	41.5	38 H	38 $+0.025/0$	10 $+0.036/0$	41.3	38 N	38 $+0.034/+0.009$	10 $+0.036/0$	41.0
40	40 $+0.025/0$	10 $+0.061/+0.025$	43.5	40 H	40 $+0.025/0$	12 $+0.043/0$	43.3	—	—	—	—
42	42 $+0.025/0$	12 $+0.075/+0.032$	45.5	42 H	42 $+0.025/0$	12 $+0.043/0$	45.3	42 N	42 $+0.034/+0.009$	12 $+0.043/0$	45.0
45	45 $+0.025/0$	12 $+0.075/+0.032$	48.5	45 H	45 $+0.025/0$	14 $+0.043/0$	48.8	—	—	—	—
48	48 $+0.025/0$	12 $+0.075/+0.032$	51.5	48 H	48 $+0.025/0$	14 $+0.043/0$	51.8	48 N	48 $+0.034/+0.009$	14 $+0.043/0$	51.5
50	50 $+0.025/0$	12 $+0.075/+0.032$	53.5	50 H	50 $+0.025/0$	14 $+0.043/0$	53.8	—	—	—	—

How to Place an Order

TT-2X-01-14N-19H-10NM-P

Size ————
 Type ————
 Bore diameter (ϕA) ————
 Key specifications ————
 Blank: Compliant with the old JIS standards (class 2)
 H: Compliant with the new JIS standards
 N: Compliant with the new motor standards

Option
 Blank: None
 P: Equipped with a signal pin

Set torque
 * Contact Miki Pulley for assistance in changing the set torque for normal or reverse operation.

Key specifications
 Blank: Compliant with the old JIS standards (class 2)
 H: Compliant with the new JIS standards
 N: Compliant with the new motor standards

Bore diameter (ϕK) ————