

Features

The mounting surface accuracy of the output flange is excellent, making it ideal for direct mounting to indexing tables.



High accuracy

Minimal backlash and excellent resetting accuracy make it ideal for indexers.

Easy torque adjustment

The torque scale allows easy torque adjustments. (See page 59.)

Automatic reset

After removing the cause of overload, the TGF Series automatically re-engages by rotating the drive side.

One-position design

The balls and pockets, which transfer the torque, are arranged in a unique way in which they engage in only one position.

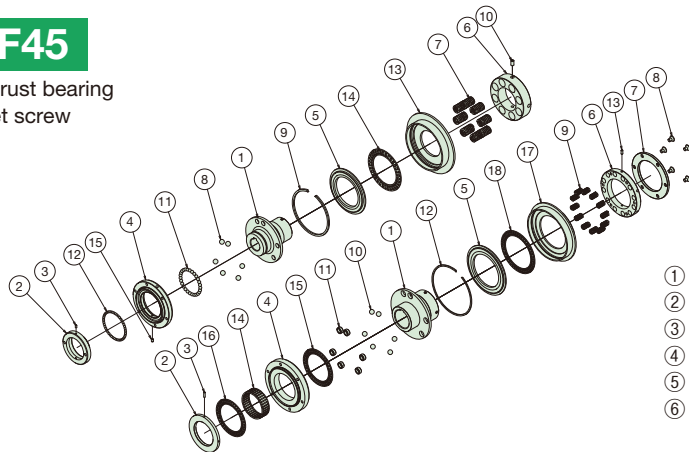
TGF

Type 2	A timing pulley can be directly mounted. The shaft-securing set screw can be tightened from the outside.
Type 3	Thinner than Type 2 and ideal for mounting a Power-Lock.
Type 5	The Echt-Flex coupling provides an angular tolerance. Parallelism errors are not allowed.
Type 7	The Echt-Flex coupling provides angular and parallelism tolerances.

Structure and Operating Principles

TGF20 to TGF45

- ① Hub
- ② End nut
- ③ Set screw
- ④ Drive plate
- ⑤ Slide plate
- ⑥ Adjustment nut
- ⑦ Coil spring
- ⑧ Drive ball (steel ball A)
- ⑨ Snap ring
- ⑩ Set screw
- ⑪ Steel ball B
- ⑫ Steel ball C
- ⑬ Housing
- ⑭ Thrust bearing
- ⑮ Set screw



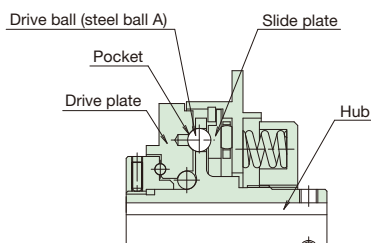
TGF65 to TGF90

- ⑦ Spring holder
- ⑧ Bolt
- ⑨ Coil spring
- ⑩ Drive ball (steel ball A)
- ⑪ Bush (TGF65 only)
- ⑫ Snap ring
- ⑬ Set screw
- ⑭ Radial bearing
- ⑮ Thrust bearing A
- ⑯ Thrust bearing A
- ⑰ Housing
- ⑱ Thrust bearing B
- ① Hub
- ② End nut
- ③ Set screw
- ④ Drive plate
- ⑤ Slide plate
- ⑥ Adjustment nut

TGF20 to TGF45

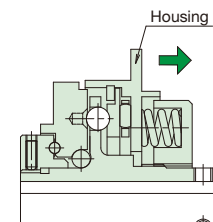
The principle of operation is the same for TGF65 and TGF90.

During normal operation (engagement)



Torque is transmitted from the hub → drive ball → drive plate (or vice versa). Sprockets and timing pulleys are bolted directly to this drive plate. The hub flange has several holes to hold the drive balls. There are pockets on the drive plate where the drive balls are pressured by coil springs via the slide plate to transmit the torque.

During overload (tripping)



When an overload occurs, the drive balls push the slide plate toward the coil springs. The drive balls, while rotating, pop out of the pockets of the drive plate to release the driving force.

At this time, the housing moves toward the coil springs. The amount of the housing's travel is detected by a TG Sensor or a similar device. This makes it easy to automatically stop the drive source after an overload.

● How to reset

Restarting operation after an overload allows the drive balls to automatically return to their positions within one revolution.

The TGF Series repeatedly resets if it is continuously rotated after an overload. Therefore, detect overloads using a TG Sensor or a similar device and shutdown the drive source immediately.

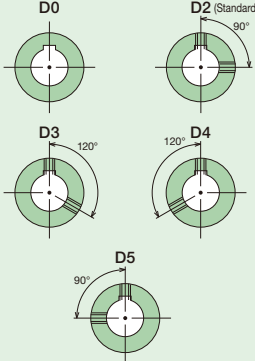
Model Numbering Example

New model numbering

As of April 2, 2018

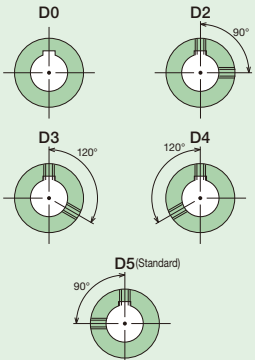
■ Single-unit type

TGF20-L2-TH20JD2-N19

Series	Size	Spring strength	Type	Shock Guard side	Bore tolerance	Bore dia.	Keyway tolerance	Set screw position (seen from adjustment nut side)	Torque range
TGF	20 30 45 65 90	L: Weak M: Medium H: Strong	2: Type 2 3: Type 3	T	F : F7 G : G7 H : H7	Bore diameters are in 1 mm increments.	J: New JIS Js9 P: New JIS P9 F: Old JIS F7		Shown in N·m units. - Torque less than 10 N·m is shown to one decimal place. - Specify torque range only if required.

■ Coupling type

TGF20-L5-TH20PD2XCH30PD2-N18

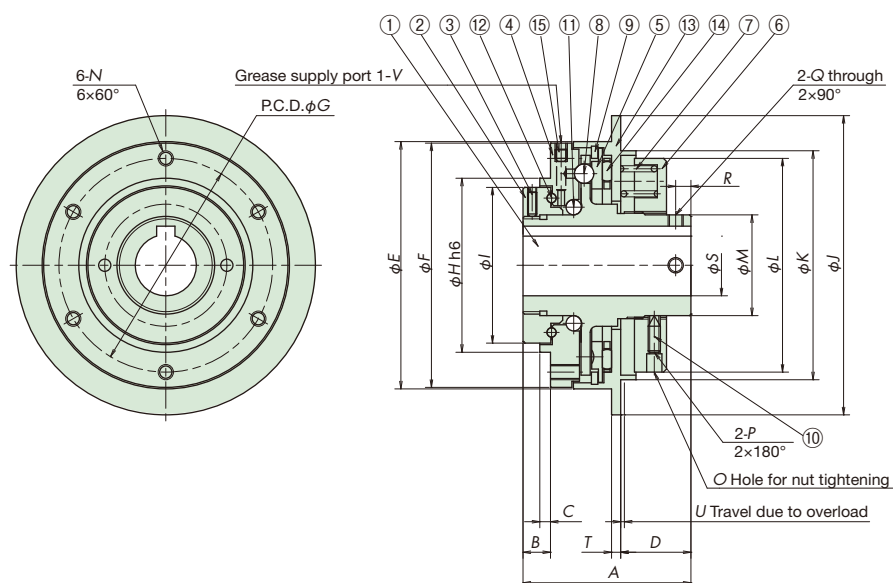
Series	Size	Spring strength	Type	Shock Guard side	Bore tolerance, bore dia., keyway tolerance, set screw position (seen from adjustment nut side)	Coupling side	Bore tolerance, bore dia., keyway tolerance, set screw position (seen from coupling hub end)	Torque range
TGF	20 30 45 65 90	L: Weak M: Medium H: Strong	5: Type 5 7: Type 7	T	Same as single-unit type	C		Same as single-unit type - Torque less than 10 N·m is shown to one decimal place. - Specify torque range only if required.

Shock Guard TGF Series

Transmission Capacity and Dimensions

■ TGF20- □ 2 / TGF30- □ 2 / TGF45- □ 2

Type 2



- ① Hub
- ② End nut
- ③ Set screw
- ④ Drive plate
- ⑤ Slide plate
- ⑥ Adjustment nut
- ⑦ Coil spring
- ⑧ Drive ball (steel ball A)
- ⑨ Snap ring
- ⑩ Set screw
- ⑪ Steel ball B
- ⑫ Steel ball C
- ⑬ Housing
- ⑭ Thrust bearing
- ⑮ Set screw

Unit: mm

Model no.	Torque range N·m	Max. rpm ^{*1}	Number of coil springs	S			A	B	C	D	E	F	G P.C.D.	H h6	I	J
				Pilot bore dia.	Min. bore dia.	Max. bore dia.										
TGF20-L2	6.0 to 20	900	2	8	10	20	55	9	3.5	23	81	80	70	57	51	98
TGF20-M2	12 to 40		4													
TGF20-H2	24 to 80		8													
TGF30-L2	10 to 74	740	2	10	12	30	80	11	5.5	39	103	100	90	75	69	130
TGF30-M2	20 to 147		4													
TGF30-H2	40 to 294		8													
TGF45-L2	30 to 156	600	3	20	22	45	95	14	7.0	46	142	140	125	100	92	165
TGF45-M2	60 to 313		6													
TGF45-H2	120 to 568		12													

Model no.	K	L	M	N Screw dia. x depth	O Number - hole dia. x depth	P Screw dia. x length	Q Screw dia.*2	R ^{*2}	T	U	V Screw dia. x depth	W Screw dia. x length	Mass ^{*3} kg	Moment of inertia ^{*3} kg·m ²	Allowable radial load N
TGF20-L2	75	70	33	M5×9	4-φ5×6	M4×12	M5	5	3	1.2	M4×8	—	1.4	0.00108	1300
TGF20-M2															
TGF20-H2															
TGF30-L2	98	92	48	M6×11	4-φ7×7	M6×15	M6	5	4	1.8	M4×8	—	3.3	0.00435	3100
TGF30-M2															
TGF30-H2															
TGF45-L2	132	124	66	M8×13	6-φ7×7	M6×20	M8	8	4	2.2	M4×8	—	6.7	0.0165	3900
TGF45-M2															
TGF45-H2															

*1. Contact a Tsubaki representative when using at speeds higher than the maximum rpm.

*2. Tapped holes for set screws are not processed. Dimensions are for reference only.

*3. Mass and moment of inertia are based on the maximum bore diameter.

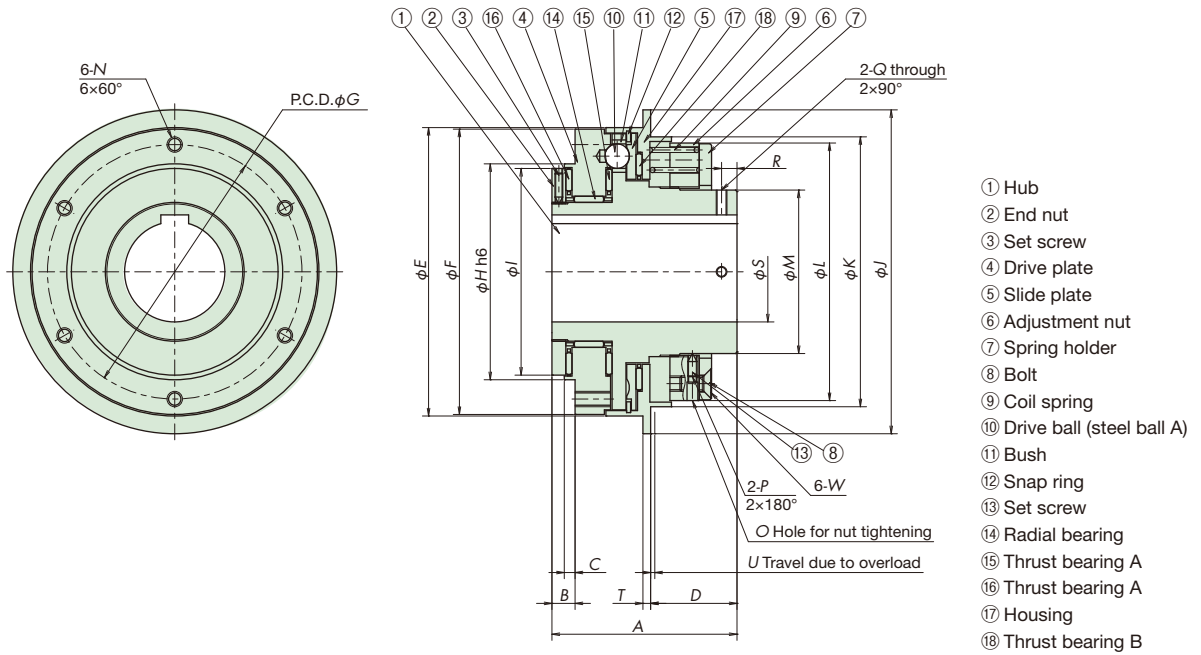
Note: Contact a Tsubaki representative if you want to use the Shock Guard at a torque range lower than listed in this catalog.

When installing a pulley or sprocket, use high-tensile bolts (G10.9 or higher) and determine the length carefully so that the bolts are not buried deeper than the mounting tapped hole depth N.

Transmission Capacity and Dimensions

■ TGF65- □ 2 / TGF90- □ 2

Type 2



Unit: mm

Model no.	Torque range N·m	Max. rpm ^{*1}	Number of coil springs	S			A	B	C	D	E	F	G P.C.D.	H h6	I	J
				Pilot bore dia.	Min. bore dia.	Max. bore dia.										
TGF65-L2	50 to 269	430	3	30	32	65	120	15	7	56	187	185	165	140	134	210
TGF65-M2	100 to 539		6													
TGF65-H2	200 to 1078		12													
TGF90-L2	300 to 1225	330	3	45	47	90	170	23	9	93	252	246	215	175	170	280
TGF90-M2	600 to 2450		6													
TGF90-H2	1200 to 4900		12													

Model no.	K	L	M	N Screw dia. x depth	O Number - hole dia. x depth	P Screw dia. x length	Q Screw dia. ^{*2}	R ^{*2}	T	U	V Screw dia. x depth	W Screw dia. x length ^{*3}	Mass ^{*4} kg	Moment of inertia ^{*4} kg·m ²	Allowable radial load N
TGF65-L2	175	167	106	M10×17	6-φ 7×12	M6×20	M10	10	5	2.7	—	M10×20	16	0.0678	30000
TGF65-M2															
TGF65-H2															
TGF90-L2	243	233	150	M16×20	6-φ 12×15	M10×30	M12	10	8	5.0	—	M12×35	37	0.267	33000
TGF90-M2															
TGF90-H2															

*1. Contact a Tsubaki representative when using at speeds higher than the maximum rpm.

*2. Tapped holes for set screws are not processed. Dimensions are for reference only.

*3. TGF65 uses hex cap countersunk screws, and TGF90 uses hex bolts.

*4. Mass and moment of inertia are based on the maximum bore diameter.

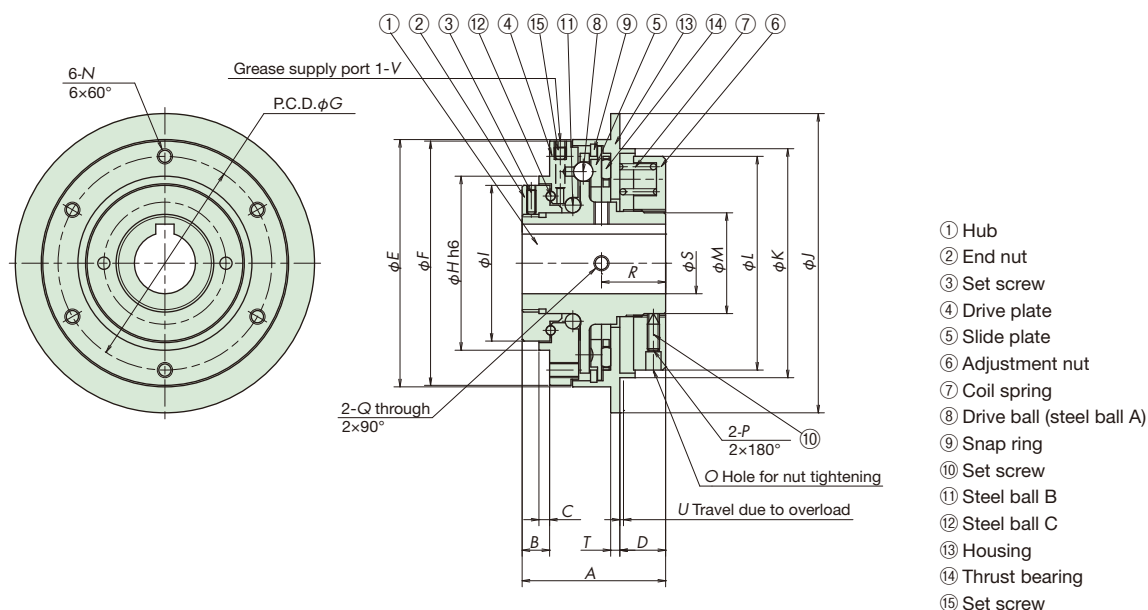
Note: When installing a pulley or sprocket, use high-tensile bolts (G10.9 or higher) and determine the length carefully so that the bolts are not buried deeper than the mounting tapped hole depth N.

Shock Guard TGF Series

Transmission Capacity and Dimensions

■ TGF20- □ 3 / TGF30- □ 3 / TGF45- □ 3

Type 3



Unit: mm

Model no.	Torque range N·m	Max. rpm ^{*1}	Number of coil springs	S			A	B	C	D	E	F	G P.C.D.	H h6	I	J
				Pilot bore dia.	Min. bore dia.	Max. bore dia.										
TGF20-L3	6.0 to 20	900	2	8	10	20	47	9	3.5	15	81	80	70	57	51	98
TGF20-M3	12 to 40		4													
TGF20-H3	24 to 80		8													
TGF30-L3	10 to 74	740	2	10	12	30	71	11	5.5	30	103	100	90	75	69	130
TGF30-M3	20 to 147		4													
TGF30-H3	40 to 294		8													
TGF45-L3	30 to 156	600	3	20	22	45	81	14	7.0	32	142	140	125	100	92	165
TGF45-M3	60 to 313		6													
TGF45-H3	120 to 568		12													

Model no.	K	L	M	N Screw dia. x depth	O Number - hole dia. x depth	P Screw dia. x length	Q Screw dia.*2	R ^{*2}	T	U	V Screw dia. x depth	W Screw dia. x length	Mass ^{*3} kg	Moment of inertia ^{*3} kg·m ²	Allowable radial load N
TGF20-L3	75	70	33	M5×9	4-φ5×6	M4×12	M5	21	3	1.2	M4×8	—	1.3	0.00108	1300
TGF20-M3															
TGF20-H3															
TGF30-L3	98	92	48	M6×11	4-φ7×7	M6×15	M6	37	4	1.8	M4×8	—	3.2	0.00429	3100
TGF30-M3															
TGF30-H3															
TGF45-L3	132	124	66	M8×13	6-φ7×7	M6×20	M8	40	4	2.2	M4×8	—	6.5	0.0163	3900
TGF45-M3															
TGF45-H3															

*1. Contact a Tsubaki representative when using at speeds higher than the maximum rpm.

*2. Tapped holes for set screws are not processed. Dimensions are for reference only.

*3. Mass and moment of inertia are based on the maximum bore diameter.

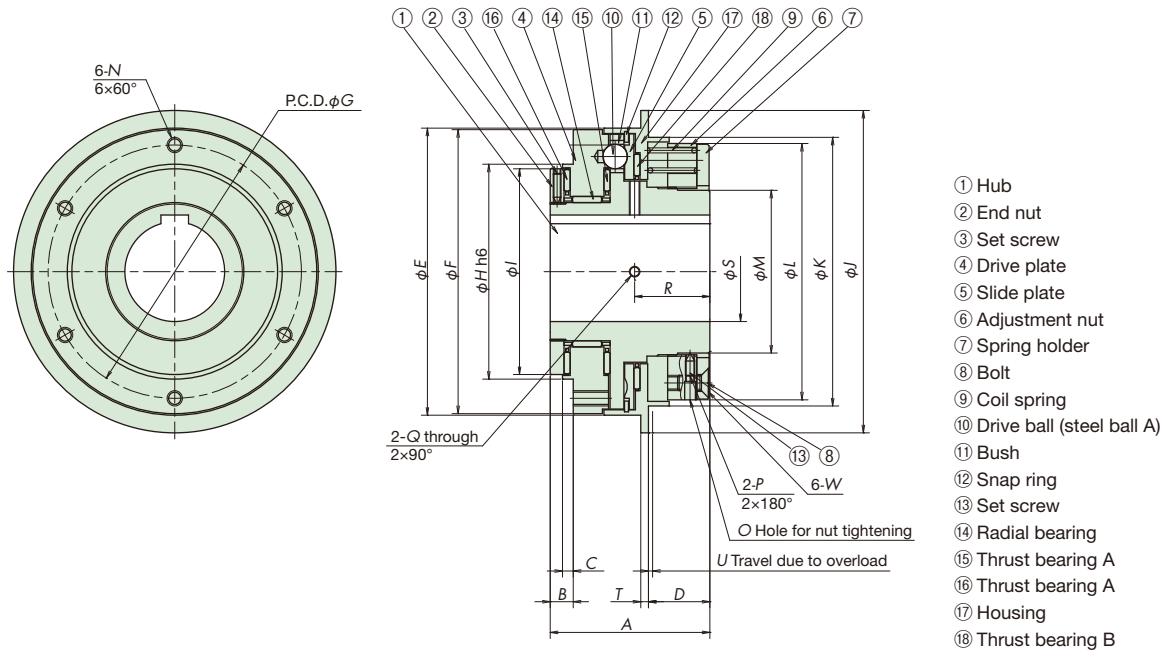
Note: Contact a Tsubaki representative if you want to use the Shock Guard at a torque range lower than listed in this catalog.

When installing a pulley or sprocket, use high-tensile bolts (G10.9 or higher) and determine the length carefully so that the bolts are not buried deeper than the mounting tapped hole depth N.

Transmission Capacity and Dimensions

■ TGF65- □ 3 / TGF90- □ 3

Type 3



Unit: mm

Model no.	Torque range N·m	Max. rpm ^{*1}	Number of coil springs	S			A	B	C	D	E	F	G P.C.D.	H h6	I	J
				Pilot bore dia.	Min. bore dia.	Max. bore dia.										
TGF65-L3	50 to 269	430	3	30	32	65	104	15	7	40	187	185	165	140	134	210
TGF65-M3	100 to 539		6													
TGF65-H3	200 to 1078		12													
TGF90-L3	300 to 1225	330	3	45	47	90	150	23	9	73	252	246	215	175	170	280
TGF90-M3	600 to 2450		6													
TGF90-H3	1200 to 4900		12													

Model no.	K	L	M	N Screw dia. x depth	O Number - hole dia. x depth	P Screw dia. x length	Q Screw dia. ^{*2}	R ^{*2}	T	U	V Screw dia. x depth	W Screw dia. x length ^{*3}	Mass ^{*4} kg	Moment of inertia ^{*4} kg·m ²	Allowable radial load N
TGF65-L3	175	167	106	M10×17	6-φ 7×12	M6×20	M10	49	5	2.7	—	M10×20	15.2	0.0662	30000
TGF65-M3															
TGF65-H3															
TGF90-L3	243	233	150	M16×20	6-φ 12×15	M10×30	M12	75	8	5.0	—	M12×35	34.7	0.258	33000
TGF90-M3															
TGF90-H3															

*1. Contact a Tsubaki representative when using at speeds higher than the maximum rpm.

*2. Tapped holes for set screws are not processed. Dimensions are for reference only.

*3. TGF65 uses hex cap countersunk screws, and TGF90 uses hex bolts. (Hex bolts will protrude a maximum of 7.5 mm from the hub end.)

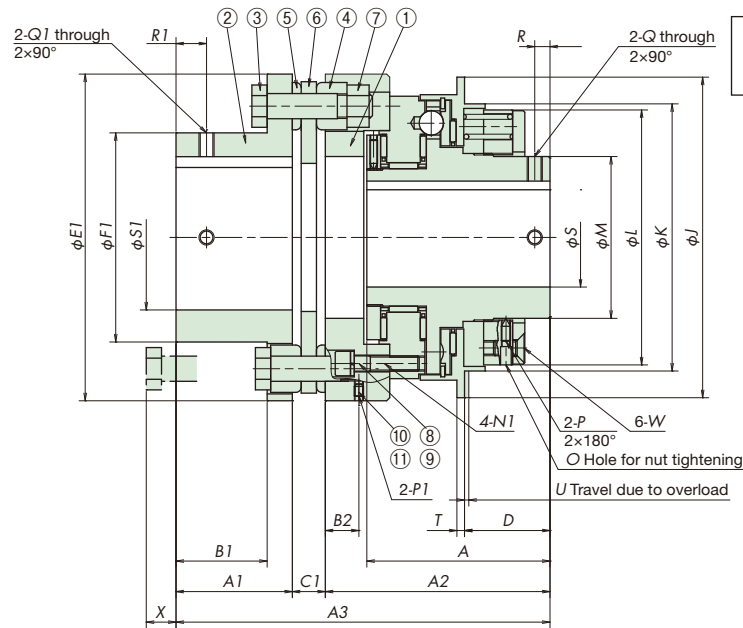
*4. Mass and moment of inertia are based on the maximum bore diameter.

Note: When installing a pulley or sprocket, use high-tensile bolts (G10.9 or higher) and determine the length carefully so that the bolts are not buried deeper than the mounting tapped hole depth N.

Transmission Capacity and Dimensions

■ TGF65- □ 5 / TGF90- □ 5

Type 5



A combination of the TGF-2 and the single-type NEF Series Echt-Flex coupling

- ① Mounting adapter
- ② Coupling hub
- ③ Reamer bolt
- ④ Washer A
- ⑤ Washer B
- ⑥ Disk
- ⑦ U nut
- ⑧ Socket bolt
- ⑨ Spring washer
- ⑩ Set screw
- ⑪ Set piece

Unit: mm

Model no.	Torque range N·m	Max. rpm ^{*1}	Number of coil springs	Shock Guard S			Coupling S1			A	A1	A2	A3	B1	B2	C1
				Pilot bore dia.	Min. bore dia.	Max. bore dia.	Pilot bore dia.	Min. bore dia.	Max. bore dia.							
TGF65-L5	50 to 269	430	3	30	32	65	45	47	95	120	76.2	147.2	245	59.7	22	21.6
TGF65-M5	100 to 539		6													
TGF65-H5	200 to 1078		12													
TGF90-L5	300 to 1225	330	3	45	47	90	50	52	118	170	101.6	211.2	340	76.1	35	27.2
TGF90-M5	600 to 2450		6													
TGF90-H5	1200 to 4900		12													

Model no.	D	E1	F1	J	K	L	M	N1 Screw dia. x length	O Number - hole dia. x depth	P Screw dia. x length	P1 Screw dia. x length	Q ^{*2}	Q1 ^{*2}	R ^{*2}	R1 ^{*2}	T	U
TGF65-L5	56	214	137	210	175	167	106	M10×45	6-φ 7×12	M6×20	M6×8	M10	M10	10	20	5	2.7
TGF65-M5																	
TGF65-H5																	
TGF90-L5	93	276	169	280	243	233	150	M16×60	6-φ 12×15	M10×30	M6×10	M12	M12	10	30	8	5.0
TGF90-M5																	
TGF90-H5																	

Model no.	V Screw dia. x depth	W Screw dia. x length ^{*3}	Mass ^{*4} kg	Moment of inertia ^{*4} kg·m ²	Coupling model no.	X ^{*5}	Allowable misalignment ^{*6}	
							Angular (deg.)	Axial
TGF65-L5	—	M10×20	30.6	0.153	NEF340S	19.5	1	±3.3
TGF65-M5								
TGF65-H5								
TGF90-L5	—	M12×35	71.7	0.604	NEF700S	40	1	±4.0
TGF90-M5								
TGF90-H5								

*1. Contact a Tsubaki representative when using at speeds higher than the maximum rpm.

*2. Tapped holes for set screws are not processed. Dimensions are for reference only.

*3. TGF65 uses hex cap countersunk screws, and TGF90 uses hex bolts.

*4. Mass and moment of inertia are based on the maximum bore diameter.

*5. Space required for the insertion of a reamer bolt.

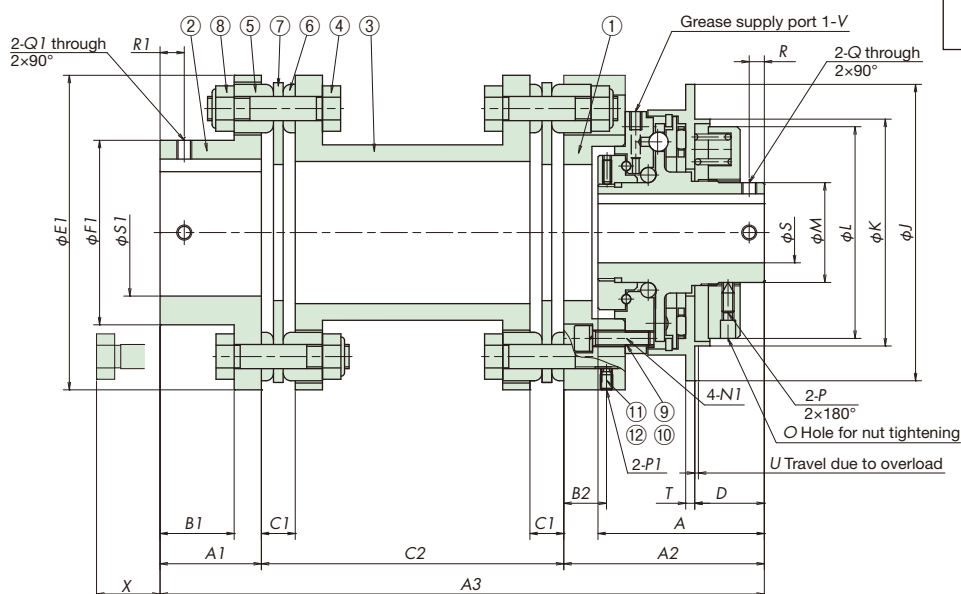
*6. The allowable misalignment is the value when the other two misalignments are zero.

Shock Guard TGF Series

Transmission Capacity and Dimensions

■ TGF20- □ 7 / TGF30- □ 7 / TGF45- □ 7

Type 7



Unit: mm

Model no.	Torque range N·m	Max. rpm*1	Number of coil springs	Shock Guard S			Coupling S1			A	A1	A2	A3	B1	B2	C1	C2
				Pilot bore dia.	Min. bore dia.	Max. bore dia.	Pilot bore dia.	Min. bore dia.	Max. bore dia.								
TGF20-L7	6.0 to 20	900	2	8	10	20	15	17	42	55	33.5	66.3	199.8	24.5	14	11.2	100
TGF20-M7	12 to 40		4														
TGF20-H7	24 to 80		8														
TGF30-L7	10 to 74	740	2	10	12	30	15	17	60	80	47.8	102.5	277.3	33.8	22	11.7	127
TGF30-M7	20 to 147		4														
TGF30-H7	40 to 294		8														
TGF45-L7	30 to 156	600	3	20	22	45	25	27	74	95	57.2	110	307.2	43.2	17	16.8	140
TGF45-M7	60 to 313		6														
TGF45-H7	120 to 568		12														

Model no.	D	E1	F1	J	K	L	M	N1 Screw dia. × length	O Number - hole dia. × depth	P Screw dia. × length	P1 Screw dia. × length	Q*2	Q1*2	R*2	R1*2	T	U
TGF20-L7	23	104	61	98	75	70	33	M5×20	4-φ5×6	M4×12	M4×6	M5	M5	5	8	3	1.2
TGF20-M7																	
TGF20-H7																	
TGF30-L7	39	143	84	130	98	92	48	M6×25	4-φ7×7	M6×15	M5×6	M6	M6	5	12	4	1.8
TGF30-M7																	
TGF30-H7																	
TGF45-L7	46	168	106	165	132	124	66	M8×25	6-φ7×7	M6×20	M5×6	M8	M8	8	15	4	2.2
TGF45-M7																	
TGF45-H7																	

Model no.	V Screw dia. × depth	W Screw dia. × length	Mass* ³ kg	Moment of inertia* ³ kg·m ²	Coupling model no.	X* ⁴	Allowable misalignment* ⁵		
							Angular (deg.)	Parallel	Axial
TGF20-L7	M4×8	—	4.6	0.00549	NEF25W	21	2	1.6	±2.8
TGF20-M7									
TGF20-H7									
TGF30-L7	M4×8	—	11.9	0.0279	NEF80W	29.5	2	2.0	±3.6
TGF30-M7									
TGF30-H7									
TGF45-L7	M4×8	—	18.5	0.0616	NEF130W	20	2	2.2	±5.0
TGF45-M7									
TGF45-H7									

*1. Contact a Tsubaki representative when using at speeds higher than the maximum rpm.

*2. Tapped holes for set screws are not processed. Dimensions are for reference only.

*3. Mass and moment of inertia are based on the maximum bore diameter.

*4. Space required for the insertion of a reamer bolt.

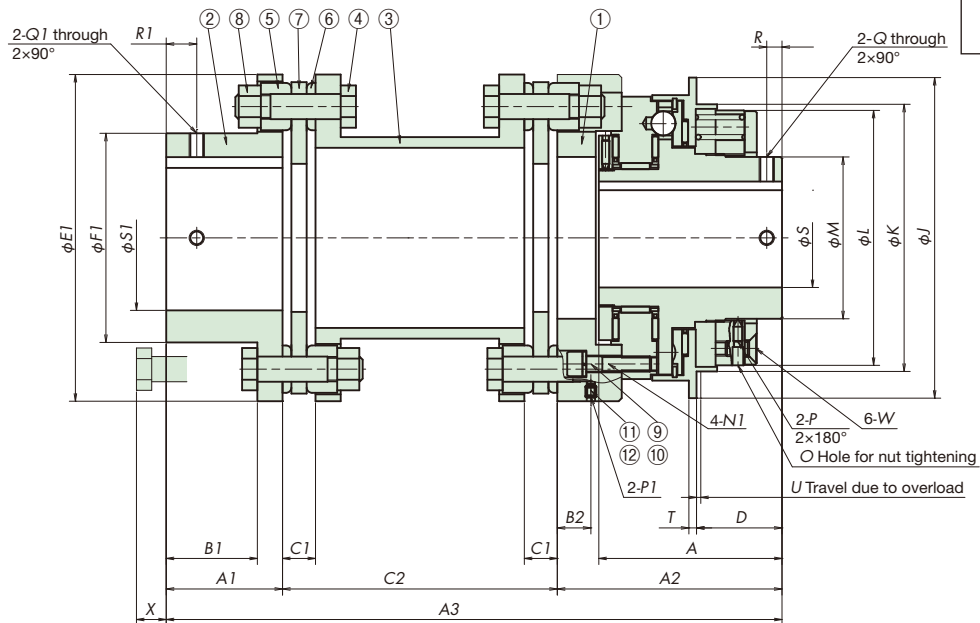
*5. The allowable misalignment is the value when the other two misalignments are zero.

Note: Contact a Tsubaki representative if you want to use the Shock Guard at a torque range lower than listed in this catalog.

Transmission Capacity and Dimensions

■ TGF65- □ 7 / TGF90- □ 7

Type 7



A combination of the TGF-2 and the single-type NEF Series Echt-Flex coupling

- ① Mounting adapter
- ② Coupling hub
- ③ Long spacer
- ④ Reamer bolt
- ⑤ Washer A
- ⑥ Washer B
- ⑦ Disk
- ⑧ U nut
- ⑨ Socket bolt
- ⑩ Spring washer
- ⑪ Set screw
- ⑫ Set piece

Unit: mm

Model no.	Torque range N·m	Max. rpm*1	Number of coil springs	Shock Guard S			Coupling S1			A	A1	A2	A3	B1	B2	C1	C2
				Pilot bore dia.	Min. bore dia.	Max. bore dia.	Pilot bore dia.	Min. bore dia.	Max. bore dia.								
TGF65-L7	50 to 269	430	3	30	32	65	45	47	95	120	76.2	147.2	403.4	59.7	22	21.6	180
TGF65-M7	100 to 539		6														
TGF65-H7	200 to 1078		12														
TGF90-L7	300 to 1225	330	3	45	47	90	50	52	118	170	101.6	211.2	562.8	76.1	35	27.2	250
TGF90-M7	600 to 2450		6														
TGF90-H7	1200 to 4900		12														

Model no.	<i>D</i>	<i>E1</i>	<i>F1</i>	<i>J</i>	<i>K</i>	<i>L</i>	<i>M</i>	<i>N1</i> Screw dia. × length	<i>O</i> Number – hole dia. × depth	<i>P</i> Screw dia. × length	<i>P1</i> Screw dia. × length	<i>Q</i> *2	<i>Q1</i> *2	<i>R</i> *2	<i>R1</i> *2	<i>T</i>	<i>U</i>
TGF65-L7	56	214	137	210	175	167	106	M10×45	6-φ 7×12	M6×20	M6×8	M10	M10	10	20	5	2.7
TGF65-M7																	
TGF65-H7																	
TGF90-L7	93	276	169	280	243	233	150	M16×60	6-φ 12×15	M10×30	M6×10	M12	M12	10	30	8	5.0
TGF90-M7																	
TGF90-H7																	

Model no.	V Screw dia. x depth	W Screw dia. x length ^{*3}	Mass ^{*4} kg	Moment of inertia ^{*4} kg·m ²	Coupling model no.	X ^{*5}	Allowable misalignment ^{*6}		
							Angular (deg.)	Parallel	Axial
TGF65-L7	—	M10×20	41.1	0.223	NEF340W	19.5	2	2.8	±6.6
TGF65-M7									
TGF65-H7									
TGF90-L7	—	M12×35	98.2	0.899	NEF700W	40	2	3.9	±8.0
TGF90-M7									
TGF90-H7									

*1. Contact a Tsubaki representative when using at speeds higher than the maximum rpm.

*2. Tapped holes for set screws are not processed. Dimensions are for reference only.

*3. TGF65 uses hex cap countersunk screws, and TGF90 uses hex bolts.

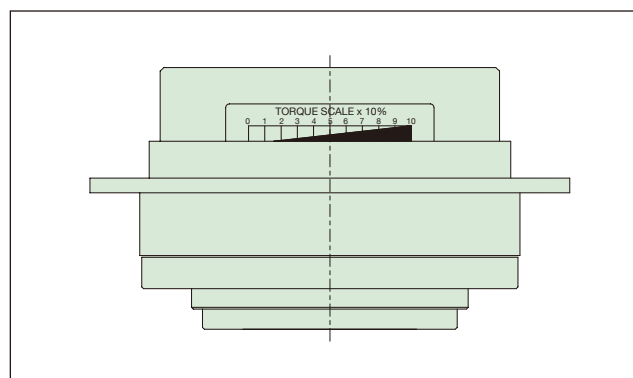
*4. Mass and moment of inertia are based on the maximum bore diameter.

*5. Space required for the insertion of a reamer bolt.

*6. The allowable misalignment is the value when the other two misalignments are zero.

Torque Adjustments

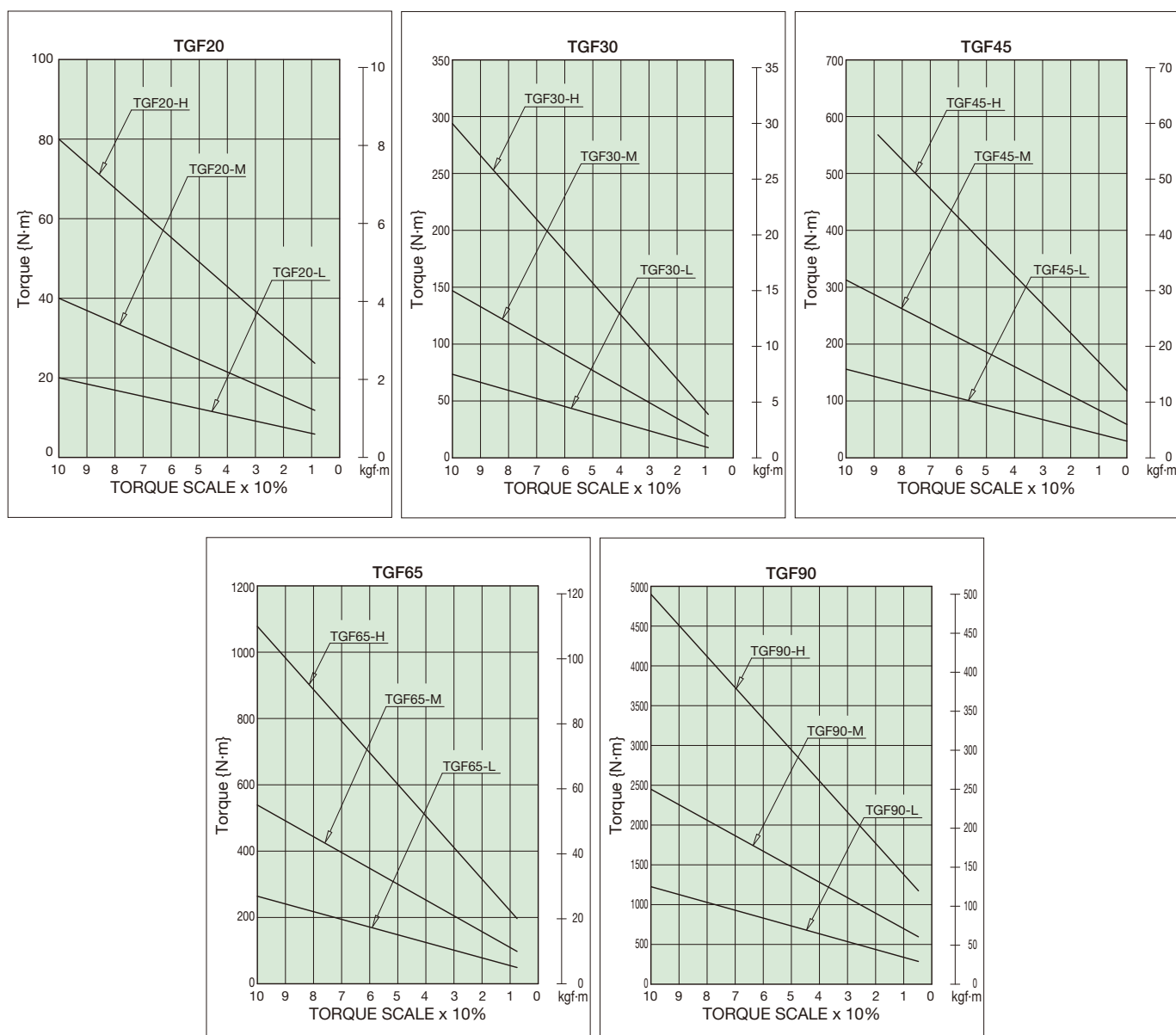
- From the Torque Correlation Charts, read the value of the torque scale that corresponds to the required torque and then tighten the adjusting nut (6) to this value. To tighten the adjusting nut (6), insert a hook spanner or a round bar into the hole on the outer periphery of the nut and turn it.
Note: When using the TGF30 or TGF45 and high torque (200 N·m or more) is required, use the custom hook wrench (sold separately).
If you are using the TGF65 or TGF90 and a high torque is required, loosen the bolt (8) to adjust the torque, turn the adjustment nut (6) to the required torque scale value, lock the adjustment nut (6) with the set screw (13), and then retighten the bolt.
- After determining the torque value, it is recommended to write it down on the nameplate to ensure that the same torque value can be set during future overhauls. A more accurate torque adjustment can be achieved by marking matchmarks on the nut and hub edge.



Torque scale

Torque Correlation Charts should be used as a rough guide only, as the trip torque may not correspond with the chart values.

Torque Correlation Charts



Power-Lock Mounting Dimensions

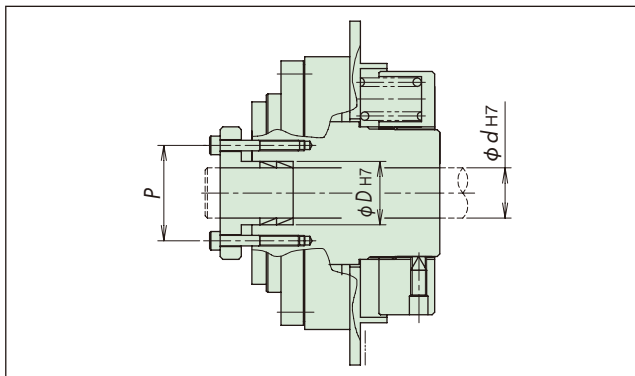
The Shock Guard TGF Series can be combined with the Power-Lock EL Series.

The maximum applicable sizes of the mounting geometries of the TGF Series are shown below.

The transmission torques of a single unit of Power-Lock are shown below. When using multiple Power-Locks, multiply by the coefficient shown on the right to get the transmission torque. If you provide us with the dimensions of the shaft and the required torque, we will assist you in selecting the appropriate product.

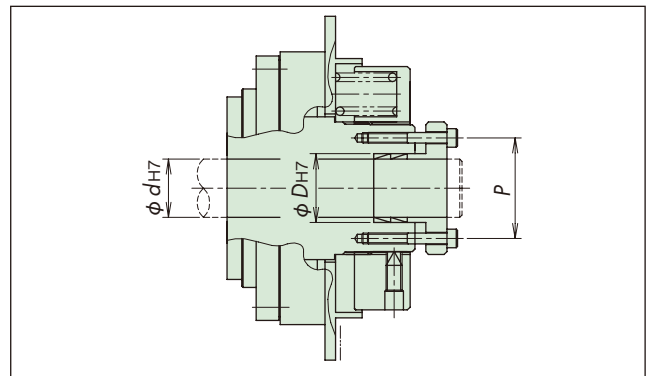
Number of units	Coefficient
1	1
2	1.55
3	1.85

Mounting Geometry a



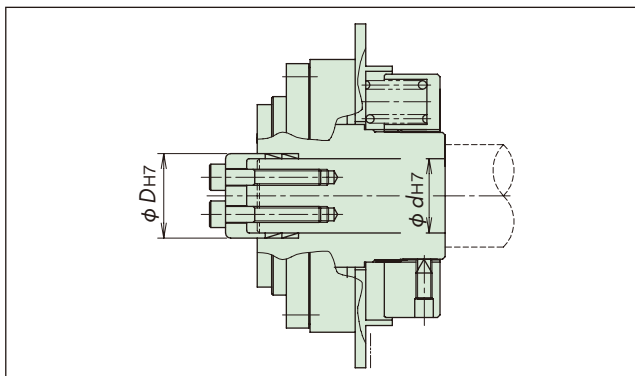
TGF Series size	Mounting geometry					Transmission torque N·m
	Max. applicable size	d	D	P	Bolt	
TGF20	—	—	—	—	—	—
TGF30	18×22	18	22	34	M4× 6	46
TGF45	32×36	32	36	50	M4× 8	123
TGF65	50×57	50	57	73	M6× 8	419
TGF90	71×80	71	80	99	M8×10	1560

Mounting Geometry b



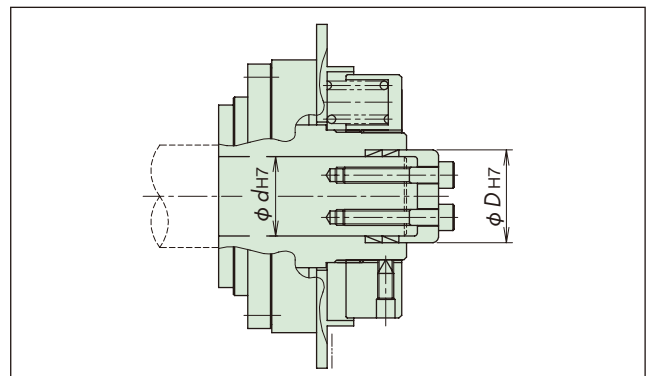
TGF Series size	Mounting geometry					Transmission torque N·m
	Max. applicable size	d	D	P	Bolt	
TGF20	—	—	—	—	—	—
TGF30	22×26	22	26	38	M 4× 6	55
TGF45	35×40	35	40	55	M 5× 6	167
TGF65	65×73	65	73	91	M 8× 8	1140
TGF90	95×106	95	106	126	M10×10	3390

Mounting Geometry c



TGF Series size	Mounting geometry				Transmission torque N·m
	Max. applicable size	d	D	Bolt	
TGF20	20×25	20	25	M10×1	39
TGF30	32×36	32	36	M 6×3	100
TGF45	45×52	45	52	M 6×8	321
TGF65	65×73	65	73	M10×4	813
TGF90	85×96	85	96	M10×8	2000

Mounting Geometry d



TGF Series size	Mounting geometry				Transmission torque N·m
	Max. applicable size	d	D	Bolt	
TGF20	24×28	24	28	M10×1	56
TGF30	36×42	36	42	M 5×6	144
TGF45	50×57	50	57	M 6×8	397
TGF65	75×84	75	84	M10×6	1260
TGF90	100×114	100	114	M12×8	3450



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