

## Combination with a Power Lock

### 1. Applicable range and Transmissible torque

It is possible to combine Shock Guards and Shock Guard Couplings with the Power Locks listed below. TEM will also supply a Shock Guard combined with a Power Lock and special pressure flange and bolts upon request. The chart shows Power Lock transmissible torque for a single set. In the case of multiple sets, multiply by the coefficient below to get the transmissible torque.

N	S
2	1.55
3	1.85

N = Line Power Lock sets

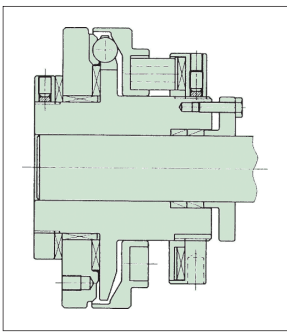
S = coefficient

(Example) In case the shaft diameter of 10 mm and 2 sets of Power Locks for TGX20

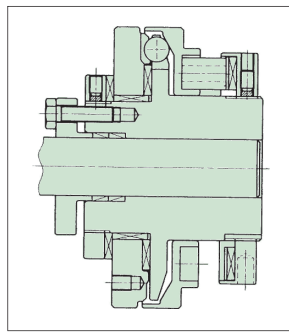
$$1.10 \times 1.55 = 1.705 \text{ about } 1.70\text{kgf}\cdot\text{m}$$

#### (1) Shock Guard TGX

Adjustment nut side



Fixed nut side



#### Power Lock transmissible torque

N·m [kgf·m]

Bore diameter	Power Lock Model No.	Model No. of Adjustment Guard									
		TGX10		TGX20		TGX35		TGX50		TGX70	
		Adjustment nut side	Fixed nut side	Adjustment nut side	Fixed nut side	Adjustable nut side	Fixed nut side	Adjustment nut side	Fixed nut side	Adjustment nut side	Fixed nut side
10	PL010×013E	10.8 (1.10)		10.8 (1.10)	10.8 (1.10)						
12	PL012×015E	15.7 (1.60)		15.7 (1.60)	15.7 (1.60)						
13	PL013×016E			18.6 (1.90)	18.6 (1.90)						
14	PL014×018E			30.4 (3.10)	30.4 (3.10)						
15	PL015×019E			35.3 (3.60)	35.3 (3.60)	35.3 (3.60)	35.3 (3.60)				
16	PL016×020E			39.2 (4.00)	39.2 (4.00)	40.2 (4.10)	40.2 (4.10)				
17	PL017×021E			43.1 (4.40)	43.1 (4.40)	45.1 (4.60)	45.1 (4.60)				
18	PL018×022E			46.1 (4.70)	46.1 (4.70)	51.0 (5.20)	51.0 (5.20)				
19	PL019×024E			41.2 (4.20)	41.2 (4.20)	56.8 (5.80)	56.8 (5.80)				
20	PL020×025E			44.1 (4.50)	44.1 (4.50)	62.7 (6.40)	62.7 (6.40)	62.7 (6.40)	62.7 (6.40)		
22	PL022×026E					75.5 (7.70)	75.5 (7.70)	75.5 (7.70)	75.5 (7.70)		
24	PL024×028E					90.2 (9.20)	90.2 (9.20)	90.2 (9.20)	90.2 (9.20)		
25	PL025×030E					91.1 (9.30)		98.0 (10.0)	98.0 (10.0)	98.0 (10.0)	98.0 (10.0)
28	PL028×032E							111 (11.3)	123 (12.5)	123 (12.5)	123 (12.5)
30	PL030×035E							115 (11.7)	141 (14.4)	141 (14.4)	141 (14.4)
32	PL032×036E							124 (12.7)	160 (16.3)	160 (16.3)	160 (16.3)
35	PL035×040E							127 (13.0)	217 (22.1)	217 (22.1)	217 (22.1)
36	PL036×042E							229 (23.4)	229 (23.4)	229 (23.4)	229 (23.4)
38	PL038×044E							256 (26.1)	256 (26.1)	256 (26.1)	256 (26.1)
40	PL040×045E							312 (31.8)	312 (31.8)	312 (31.8)	312 (31.8)
42	PL042×048E							344 (35.1)	344 (35.1)	344 (35.1)	344 (35.1)
45	PL045×052E							366 (37.3)	366 (37.3)	490 (50.0)	490 (50.0)
48	PL048×055E							398 (40.6)	398 (40.6)	530 (54.1)	530 (54.1)
50	PL050×057E							419 (42.8)	419 (42.8)	557 (56.8)	557 (56.8)
55	PL055×062E									624 (63.7)	624 (63.7)
56	PL056×064E									590 (60.2)	590 (60.2)
60	PL060×068E									644 (65.7)	644 (65.7)
63	PL063×071E									685 (69.9)	685 (69.9)
65	PL065×073E									711 (72.6)	711 (72.6)
70	PL070×079E									724 (73.9)	724 (73.9)

#### Pressure bolt tightening torque

N·m [kgf·m]

Bore diameter	Power Lock Model No.	Model No. of Shock Guard									
		TGX10		TGX20		TGX35		TGX50		TGX70	
		Adjustment nut side	Fixed nut side	Adjustment nut side	Fixed nut side	Adjustment nut side	Fixed nut side	Adjustment nut side	Fixed nut side	Adjustment nut side	Fixed nut side
10	PL010×013E	2.94 (0.30)		1.96 (0.20)	1.96 (0.20)						
12	PL012×015E	3.14 (0.32)		2.06 (0.21)	2.06 (0.21)						
13	PL013×016E			2.16 (0.22)	2.16 (0.22)						
14	PL014×018E			3.53 (0.36)	3.53 (0.36)						
15	PL015×019E			3.92 (0.40)	3.92 (0.40)	2.94 (0.30)	5.00 (0.51)				
16	PL016×020E			4.02 (0.41)	4.02 (0.41)	3.04 (0.31)	5.10 (0.52)				
17	PL017×021E			4.02 (0.41)	4.02 (0.41)	3.14 (0.32)	5.19 (0.53)				
18	PL018×022E			4.02 (0.41)	4.02 (0.41)	3.23 (0.33)	5.39 (0.55)				
19	PL019×024E			4.02 (0.41)	4.02 (0.41)	3.63 (0.37)	6.17 (0.63)				
20	PL020×025E			4.02 (0.41)	4.02 (0.41)	3.72 (0.38)	6.37 (0.65)	5.49 (0.56)	5.49 (0.56)		
22	PL022×026E					4.02 (0.41)	6.27 (0.64)	5.59 (0.57)	5.59 (0.57)		
24	PL024×028E					3.92 (0.40)	6.66 (0.68)	5.59 (0.57)	5.59 (0.57)		
25	PL025×030E					4.02 (0.41)		6.27 (0.64)	6.27 (0.64)	5.00 (0.51)	5.00 (0.51)
28	PL028×032E					4.02 (0.41)		6.47 (0.66)	6.47 (0.66)	5.19 (0.53)	5.19 (0.53)
30	PL030×035E					4.02 (0.41)		7.06 (0.72)	7.06 (0.72)	5.59 (0.57)	5.59 (0.57)
32	PL032×036E					4.02 (0.41)		7.35 (0.75)	7.35 (0.75)	5.88 (0.60)	5.88 (0.60)
35	PL035×040E					4.02 (0.41)		9.11 (0.93)	9.11 (0.93)	7.25 (0.74)	7.25 (0.74)
36	PL036×042E							9.51 (0.97)	9.51 (0.97)	7.64 (0.78)	7.64 (0.78)
38	PL038×044E							9.90 (1.01)	9.90 (1.01)	7.94 (0.81)	7.94 (0.81)
40	PL040×045E							11.7 (1.19)	11.7 (1.19)	9.31 (0.95)	9.31 (0.95)
42	PL042×048E							12.3 (1.26)	12.3 (1.26)	9.80 (1.00)	9.80 (1.00)
45	PL045×052E							13.7 (1.40)	13.7 (1.40)	13.7 (1.40)	13.7 (1.40)
48	PL048×055E							13.7 (1.40)	13.7 (1.40)	13.7 (1.40)	13.7 (1.40)
50	PL050×057E							13.7 (1.40)	13.7 (1.40)	13.7 (1.40)	13.7 (1.40)
55	PL055×062E									13.7 (1.40)	13.7 (1.40)
56	PL056×064E									13.7 (1.40)	13.7 (1.40)
60	PL060×068E									13.7 (1.40)	13.7 (1.40)
63	PL063×071E									13.7 (1.40)	13.7 (1.40)
65	PL065×073E									13.7 (1.40)	13.7 (1.40)
70	PL070×079E									13.7 (1.40)	13.7 (1.40)