

# Tensioner Unit

## Slotted Hole, Adjustment Screw Type

**Features:** Tensioner units applicable on both driven side and middle section. Can be used for chain or belt drive.

Type	Attachment Plate	Tension Pin	Slide Plate	Tension Block	Surface Treatment
TNSR	SS400-D	S45C	S45C (Precision Casting)	SS400-D	Black Oxide
TNSN					Electroless Nickel Plating

**<Applicable Idlers>**  
 • Chain Idlers ☒ P.1550, 1552  
 • Idlers with teeth for timing belts. ☒ P.1445-1456  
 • Idlers for Timing Belts ☒ P.1457  
 • Idlers for Flat Belts ☒ P.1370

When tightening or loosening nuts ①, please use a wrench for the wrench flats W.

Idler is optional. **RoHS**

Dg6	V	d	t	P	H	W	M (Coarse)
10	13	9.6	5	13	15	11	M8
12	15	11.5				13	M8
15	20	14.3		16	20	17	M10
17	22	16.2	8	17	24	19	M12
20	24	19			24	22	M12

Dg6	① Adjustment Screw	② Nut	③ (2 pcs.) Hex Socket Head Cap Screw	④ Nut	⑤ (2 pcs.) Hex Socket Head Cap Screw	⑥ (2 pcs.) Flat Washer	⑦ C Type Retaining Ring
10	M6x55	LBNR6	CB4-16	LBNR8	CB5-10	PWF5	STWN10
12	M6x55	LBNR6	CB4-16	LBNR8	CB5-10	PWF5	STWN12
15	M8x60	LBNR8	CB5-22	LBNR10	CB5-14	PWF6	STWN15
17	M8x60	LBNR8	CB5-22	LBNR12	CB6-16	PWF6	STWN17
20	M8x60	LBNR8	CB5-22	LBNR12	CB6-16	PWF6	STWN20

Dg6	① Adjustment Screw	② Nut	③ (2 pcs.) Stainless Steel Hex Socket Head Cap Screw	④ Nut	⑤ (2 pcs.) Stainless Steel Hex Socket Head Cap Screw	⑥ (2 pcs.) Flat Washer	⑦ C Type Retaining Ring
10	M6x55	SLBNR6	M4x16	SLBNR8	M5x10	SPWF5	STWS10
12	M6x55	SLBNR6	M4x16	SLBNR8	M5x10	SPWF5	STWS12
15	M8x60	SLBNR8	M5x22	SLBNR10	M5x14	SPWF6	STWS15
17	M8x60	SLBNR8	M5x22	SLBNR12	M6x16	SPWF6	STWS17
20	M8x60	SLBNR8	M5x22	SLBNR12	M6x16	SPWF6	STWS20

Part Number Type	1mm Increment		ST (Stroke)	A	B	T	J	C	E	G	K	S	X	Z	N	Unit Price		
	Dg6	Y														F	TNSR	TNSN
TNSR TNSN	10	10~50	8~50	25	120	50	6	24	55	35	42.0	22.5	57.5	14	21	5.5		
	12			25	125	55		31	57.5									
	15			25	125	55	9	31	57.5	40	48.5	25.5	60					
	17	12~60	10~50	30	140	60		30	70			27	62.5	19	29	6.6		
	20			30	140	60		30	70									

When D=10 or 12, Y+F≤80  
 When D=15 ~ 20, Y+F≤120  
 For the F dim., specify a value identical to the width of the bearing included with the current idler. (Tolerance of F dim. : 0~+0.1mm)

Ordering Example: Part Number - Y - F  
 TNSR20 - Y15 - F12  
 TNSN15 - Y20 - F32

# Tensioners / Slide Plates for Tension

## Link Bar Type

**Features:** Tensioners for intermediate tensioning which can be easily mounted with holes on the side of plate. Can be installed in small spaces.

Type	Material	Surface Treatment
TNSRL	S45C	Black Oxide
TNSNL		Electroless Nickel Plating

**<Applicable Idlers>**  
 • Chain Idlers ☒ P.1550, 1552  
 • Idlers with teeth for timing belts. ☒ P.1445-1456  
 • Idlers for Timing Belts ☒ P.1457  
 • Idlers for Flat Belts ☒ P.1370  
 • Fulcrum Pins ☒ P.923-925

Idler is optional. **RoHS**

Dg6	V	d	H	W	P	M (Coarse)
6	8	5	10	8	6	M6
8	10	7	12	10	8	M8
10	13	9.6	15	13	10	M10
12	15	11.5	17	14	12	M12
15	18	14.3	20	17	12	M12
17	20	16.2	23	20	16	M16
20	24	19	26	24	20	M20

Type	Accessory	Material
TNSRL	Retaining Ring C Type, Hex Socket Head Cap Screw, Nut, Washer.	Steel
TNSNL		Stainless Steel

When D dimension is 20, H/2+5 is applied.

When D dimension is 6, 15 is applied.

Part Number Type	1mm Increment		ℓ	B	T	E	G	N	Included Screw	Unit Price	
	Dg6	Y								F	L
TNSRL TNSNL	6			L+20					M6x25		
	8		6~75	L+23	25	10	8	14			
	10			L+25.5				9	15		
	12	7~50		L+27.5				10	16	6.6	
	15		10~75	L+31	30	12	12	18			
	17			L+34.5				14	20		
20			L+40	35	15	15	22	9	M8x35		

Ordering Example: Part Number - Y - F - L  
 TNSRL15 - Y12 - F10 - L50

### Slide Plates for Tension

Type	Material	Surface Treatment
SDPT	S45C (Precision Casting)	Black Oxide

Adjustment Screw ☒ P.1712  
 Screw Stopper Block ☒ P.1715

When D dimension is 10, 25.5 is applied.

**RoHS**

Part Number Type	DH7	A	B	H	F	E	G	T	C	J	Unit Price
											TNSR
SDPT	8	45	44	12	30	28	5.5	5	15	8.5	
	10	50	50	15	35	29	5.5	6	20	11	
	12	54	55	15	40	34	6.6	6	20	10	

Ordering Example: Part Number SDPT8

Can be directly installed on side plates.