

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	Material				Surface Treatment
	Attachment Plate	Tension Pin	Slide Plate	Tension Block	
TNSR	EN 1.0038	EN 1.1191	EN 1.1191	EN 1.0038	Black Oxide
TNSN	Equiv.	Equiv.	Equiv. (Precision Casting)	Equiv.	Electroless Nickel Plating

<Applicable Idlers>
 • Chain Idlers ☒ P1550, 1552
 • Idlers with teeth for timing belts. ☒ P1445~1456
 • Idlers for Timing Belts ☒ P1457
 • Idlers for Flat Belts ☒ P1370

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

Idler is optional. **RoHS**

Tension Pin Dimension Details							
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

TNSR Accessory							
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

TNSN Accessory							
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			25.5	60					
	15	12~60	10~50	25	140	60	9	30	70	40	48.5	27	62.5	19	29	6.6		
	17			30	140	60		30	70	40	48.5	27	62.5	19	29	6.6		
20			30	140	60		30	70	40	48.5	27	62.5	19	29	6.6			

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	EN 1.1191	Black Oxide
TNSNL	Equiv.	Electroless Nickel Plating

<Applicable Idlers>
 • Chain Idlers ☒ P1550, 1552
 • Idlers with teeth for timing belts. ☒ P1445~1456
 • Idlers for Timing Belts ☒ P1457
 • Idlers for Flat Belts ☒ P1370
 • Fulcrum Pins ☒ P923~925

Idler is optional. **RoHS**

Tension Pin Dimension Details							
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	

Accessory		
Type	Accessory	Material
TNSRL	Retaining Ring C Type, Hex Socket Head Cap Screw, Nut, Washer.	Steel
TNSNL	Retaining Ring C Type, Hex Socket Head Cap Screw, Nut, Washer.	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
TNSRL TNSNL	6	7~50	6~75	30~200	L+20	25	10	7	12	6.6	M6x25		
	8				L+23	8	14						
	10				L+25.5	9	15						
	12				L+27.5	10	16						
	15	10~75	10~75	30~200	L+31	30	12	12	18	6.6	M6x30		
	17				L+34.5	14	20						
	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

Type	Material	Surface Treatment
SDPT	EN 1.1191 Equiv. (Precision Casting)	Black Oxide

Adjustment Screw ☒ P1712
 Screw Stopper Block ☒ P1715

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
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.