

# Tensioners / Slide Plates for Tension

## Link Bar

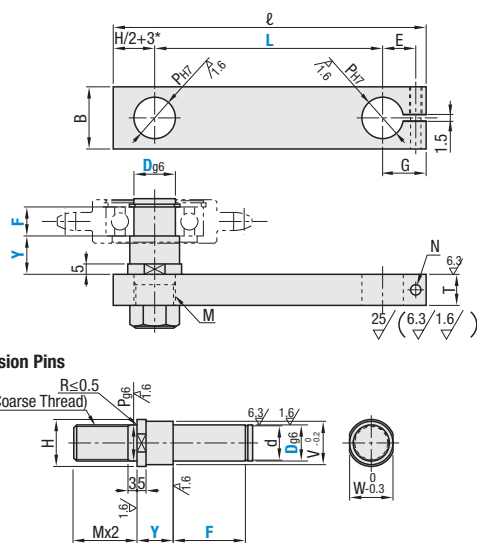
**Features:** Tensioners for intermediate tensioning which can be easily mounted with holes on the side of plate.



RoHS10 Ⓢ Idler is optional.

Type	Material	Surface Treatment
TNSRL	1045 Carbon Steel or Equivalent	Black Oxide
TNSNL		Electroless Nickel Plating

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

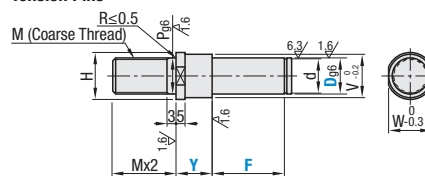


**Applicable Idlers**  
- Chain Idlers P.1525-1528

### Tension Pin Dimension Details

D <sub>g6</sub>	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

### Tension Pins



### Accessories

Type	Accessories	Material
TNSRL	Retaining Ring C Type, Hexagon Socket Head Cap Screw Nuts, Washers	Steel
TNSNL		Stainless Steel

Part Number	1 mm Increment				ℓ	B	T	E	G	N	Included Screws
	Type	D <sub>g6</sub>	Y	F							
TNSRL TNSNL	6	7-50	6-75	30-200	L+20	25	10	7	12	6.6	M6 x 25
	8				8			14			
	10				9			15			
	12				L+27.5	30	12	10	16	M6 x 30	
	15				L+31			12	18		
	17				L+34.5			14	20		
	20				L+40			15	22		9

Part Number Example: TNSRL15 - Y12 - F10 - L50

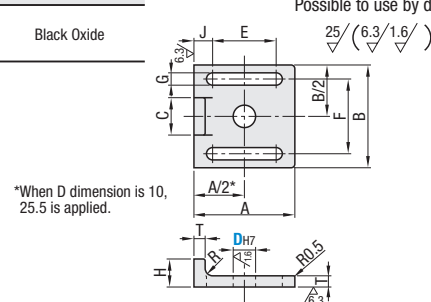
## Slide Plates for Tension



RoHS10

Type	Material	Surface Treatment
SDPT	1045 Carbon Steel or Equivalent (Precision Casting)	Black Oxide

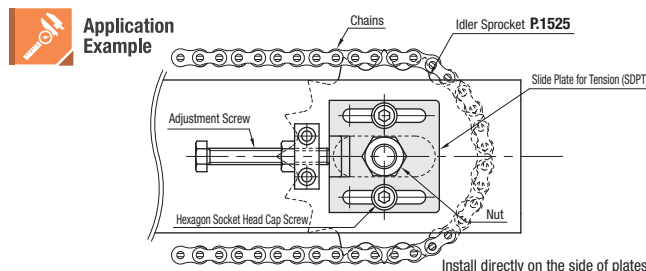
**Features:** Slide Plates for Tensioner Unit (TNSR) Possible to use by directly installing on the side plates.  
- Adjustment Screws P.1695  
- Screw Stopper Blocks P.1698



\*When D dimension is 10, 25.5 is applied.

Part Number	Type	D <sub>H7</sub>	A	B	H	F	E	G	T	C	J
			SDPT	8	45	44	12	30	28	5.5	5
		10	50	50	15	35	29	5.5	6	20	11
		12	54	55	15	40	34	6.6	6	20	10

Part Number Example: SDPT8



Install directly on the side of plates.

# Chain Tensioners

## Idler Set



RoHS10

**THBS**

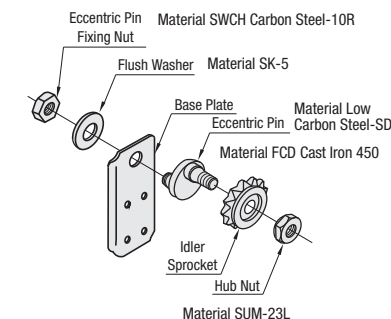
4-8.8 Through  
Spacer  
4-6.5 Through Depth 8  
Tension Allowance 50  
Ø44  
Dp  
Do

Spacer (4 Pcs.)  
M8 Screw (4 Pcs.)  
M8 Nut (4 Pcs.)

Type	Material	Surface Treatment
Idler Sprocket	1035 Carbon Steel or Equivalent (Tooth Surface: Induction Hardened)	Black Oxide
Base Plate	Low Carbon Steel	
Spacer	1018 Carbon Steel or Equivalent	

Part Number	Type	No.	Applicable Roller Chain	Idler Sprockets		A	B	Mass (kg)	
				Part No.	No. of Teeth				
THBS	35	JIS35	DRC35-18	18	60	54.85	26	47	0.89
	40	JIS40	DRC40-15	15	67	61.08			0.92
	50	JIS50	DRC50-13	13	74	66.34			0.96
	60	JIS60	DRC60-11	11	76	67.62			1.00
	80	JIS80	DRC80-9	9	85	74.26			30

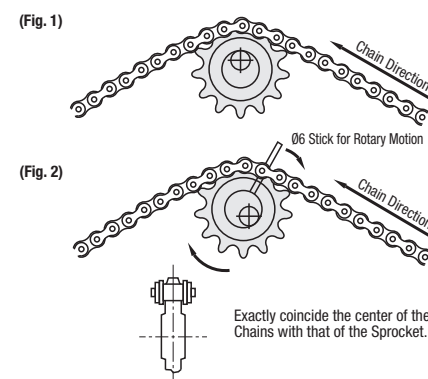
When adjusting tension at the chain driven side, refer to P.1529.



Part Number Example: THBS35

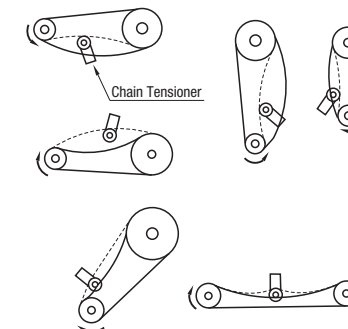
## Tension Adjustment Method

By inserting a Ø6 rod in a hole of the eccentric pin and rotating, tension adjustment of max. 50mm can be obtained. Fix base plate so that idler and chain engage each other at a position of max. tension tolerance (Fig. 1), and tighten the eccentric pin nut in chain driving direction.



## Chain Tensioner Position

Install a chain tensioner on the loose side as shown in the figure below.



**Note:** Do not use the Chain Tensioner under the conditions where it is located on the side of adjusting tensions, such as forward reverse rotary drive.