

'Floating Tensioner' provides constant tension to chain-drive systems.

- Easy installation, no special tools needed
- Greater sprocket pulling power
- Less wear on sprocket and chair
- No brackets or mounting bolts
- No idler sprocket
- No bearings
- No lubrication required
- Less maintenance, less costly



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POBCO® Snapldle® Chain Tensioner

The ideal way to maintain tension on

moving chains.

New 'floating' idler utilizes more pulling power of the sprocket and chain while reducing wear on both.

POBCO® SnapIdle® Chain Tensioners are available in Standard (PSI-ST Series), High Temp. (PSI-HT Series), Extra Heavy (PSI-XH Series), and Single Guide (PSI-SG Series).

These floating tensioners consist of two ULTRA-D saddle blocks which ride on the driven and the slack sides of the chain and are joined by adjustable take-up straps in the chain assembly. They provide constant tension to chain drive systems and they eliminate the need for adjustable center distance drives. By removing the slack from the chain, the maximum drive efficient is maintained by providing full tooth engagement in the sprocket. POBCO SnapIdles "float" on the chain drive, thereby reducing vibration and absorbing shock.

Both sprockets will have the maximum chain wrap possible, thereby increasing chain life (load sharing) and sprocket life (load sharing) and sprocket life (the chain cannot crawl out of the teeth).

The ULTRA-D saddle blocks come complete positioned in 304 stainless steel carriers. The plastic knurled straps for #25 and #35 chain snap into the sides of the saddle blocks via a spring tensioning chain action. These snap fit straps are also available for #40 and #50 chain.

Selection Considerations

STANDARD SNAPIDLE:

Maximum operating temperature 200° F

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HIGH-TEMP SNAPIDLE:	Temperature ranges 200-450° F	
EXTRA HEAVY	Used in extreme abrasive environments	
SNAPIDLE:	and particularly where there is no	
	lubrication system or where chain speeds	
	are excessive.	
SINGLE GUIDE	Used where space is limited, especially	
SNAPIDLE:	on serpentine drive systems	
VELOCITY LIMITS:	Chain speeds should not exceed: oil	
	bath: 2500 fpm	
	Standard lube: 1800 fmp	
	No lubricant: 800 fpm	
CUSTOM APPLICATIONS	For drives not listed in the cross-	
APPLICATIONS	reference chart and for chemical	
	considerations, supply the following	
	data:	
	1) Type of chain; 2) Manufacturer of	
	chain and designation; 3) Sprocket	
	diameters; 4) Horsepower, motor	
	selection and speed; 5) Environment and	
	temperature conditions; 6) If guarded,	
	space criteria; and 7) Center distances	
	of drive.	

Additional engineering and dimensional data available.

POBCO® Snapldle® Chain Tensioner ANSI Standard Roller Chain

Cross Reference Chart

PART NO.	N= Snap Fit Side Straps		To Determine Part Number	
PSI-	ANSI No.	ISO-B BS/DIN No.	1. For STANDARD add ST to end	
#25N	25		of No. i.e. For #40 Chain -	
#35N	35	(06B)	PSI-40-ST	
#40 or #40N	(25-2, 41, 40, 52)	(08B)		
#50 or #50N	(35-2, 50)	(10B, 06B-2)	2. For HIGH TEMP. add HT to	
#60	(40-2, 35-3, 60)	(12B, 08B-2)	end of No. i.e. For #60 Chain	
#80	(50-2, 35-4, 80)	(16B, 20B, 10B-2)	- #PSI-60-HT 3. For EXTRA HEAVY add XH to end of No. i.e. For #50 Chain - #PSI-50-XH 4. For SINGLE GUIDE add SG1 or SG2 to end of No. i.e. for #60 Chain - #PSI-60-SG1 or #PSI-60-SG2	
#100	(60-2, 40-3, 76, 100)	(12B-2, 08B-3)		
#120	(80-2, 50-3, 40-4, 120)	(24B, 10B-3)		
#140	140			
#160	(50-4, 40-5, 160)	(28B, 32B, 16B-2, 12B-2)		
#180	(60-3, 180, 100-2)	(40B, 20B-2)		
#200	(120-2, 80-3, 60-4, 50-5, 40-6, 200)			
#240	(140-2, 160-2, 100-3, 80-4, 60-5, 50-6,	(24B-2, 28B-2, 32B-2, 16B,		
	240)	3, 20B-3)		
#300	(180-2, 200-2, 240-2, 120-3, 140-3, 160-	(40B-2, 24B-3, 28B-3,		
	3, 100-4, 120-4, 140-4)	32B-3)		
	(80-5, 100-5, 60-6, 80-6, 60-8)			
#400	(200-3, 240-3, 160-4, 200-4, 120-5, 140-			
	5, 160-5, 100-6, 120-6)			
	(140-6, 80-8, 100-8, 180-3, 180-4)			
#500	(240-4, 160-6, 120-8, 140-8, 180-5)			
#600	(180-6, 200-6, 240-5, 160-8)			

When ordering #300, #400, #500 and #600 series, please refer to footnotes provided below:

	····3 ····· p···· p····· p····· p······ p······
NOTE 1:	These units must be ordered as follows; the SnapIdle # and the ANSI chain that it is to fit. (i.e., #300
	SnapIdle to fit 240-2 R.C.)
NOTE 2:	PSI sizes through #60 have strap lengths of 12 inches.
	PSI sizes #80 through #180 have strap lengths of 16 inches.
	PSI size #200 has strap length of 24 inches.
	PSI size #240 has strap length of 36 inches.
	PSI size #300 has strap length of 48 inches.
NOTE 3:	Allow four weeks for delivery.
NOTE 4:	See cross reference charge for non-referenced chains.
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POBCO does not recognize or agree to any terms, conditions, testing, packaging or any other requirements outside our POBCO, Inc. normal and customary terms and conditions. Any deviation from these conditions must be supplied by the customer and received in writing by POBCO, Inc. and agreed to in writing by an authorized POBCO, Inc. representative prior to any order being processed. Addendums to purchase orders are not considered prior approval.

Field testing is the ultimate proof of POBCO products meeting or exceeding your design requirements. POBCO will provide application assistance and will furnish samples for test on your equipment.

POBCO® Snapldle® Chain Tensioner

Selection Criteria

Standard Criteria

R₄ = D/d = Sprocket Ratio

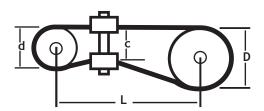
 $R_2 = D/L = Drive Aspect Ratio$

 $R_3 = c/d = Constant Ratio$

R, must be less than 4

R, should be less than or equal to 0.5

R, should be less than or equal to 0.85

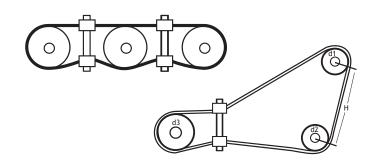


Multiple Sprocket Applications

Standard Criteria

$$H + \frac{d1 + d2}{2 d_3}$$

If the result is less than 4, use Standard Criteria

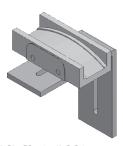


Standard PSI not applicable

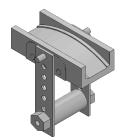
Use PSI-SG1 or PSI-SG2

SG1 = Single guide equipped with side mount bolts

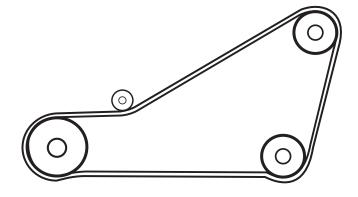
SG2 = Single guide equipped with bottom mount bolts







PSI-Chain# SG1



Safety, Installation, Maintenance

OSHA requires that all drive systems be adequately guarded. Never install, adjust or maintain a SnapIdle when the drive is in operation. All power must be disconnected when servicing a SnapIdle. Tension the chain using side straps. Tension only enough to take out the slack in the chain. Never over-tension the SnapIdle since this will cause increased wear. Periodically

visually inspect the SnapIdle to verify wear and replace before the chain wears through the Ultra-D plastic saddle blocks. In replacement of the SnapIdle we recommend also replacing the side straps as they have been subjected to drive stress.

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