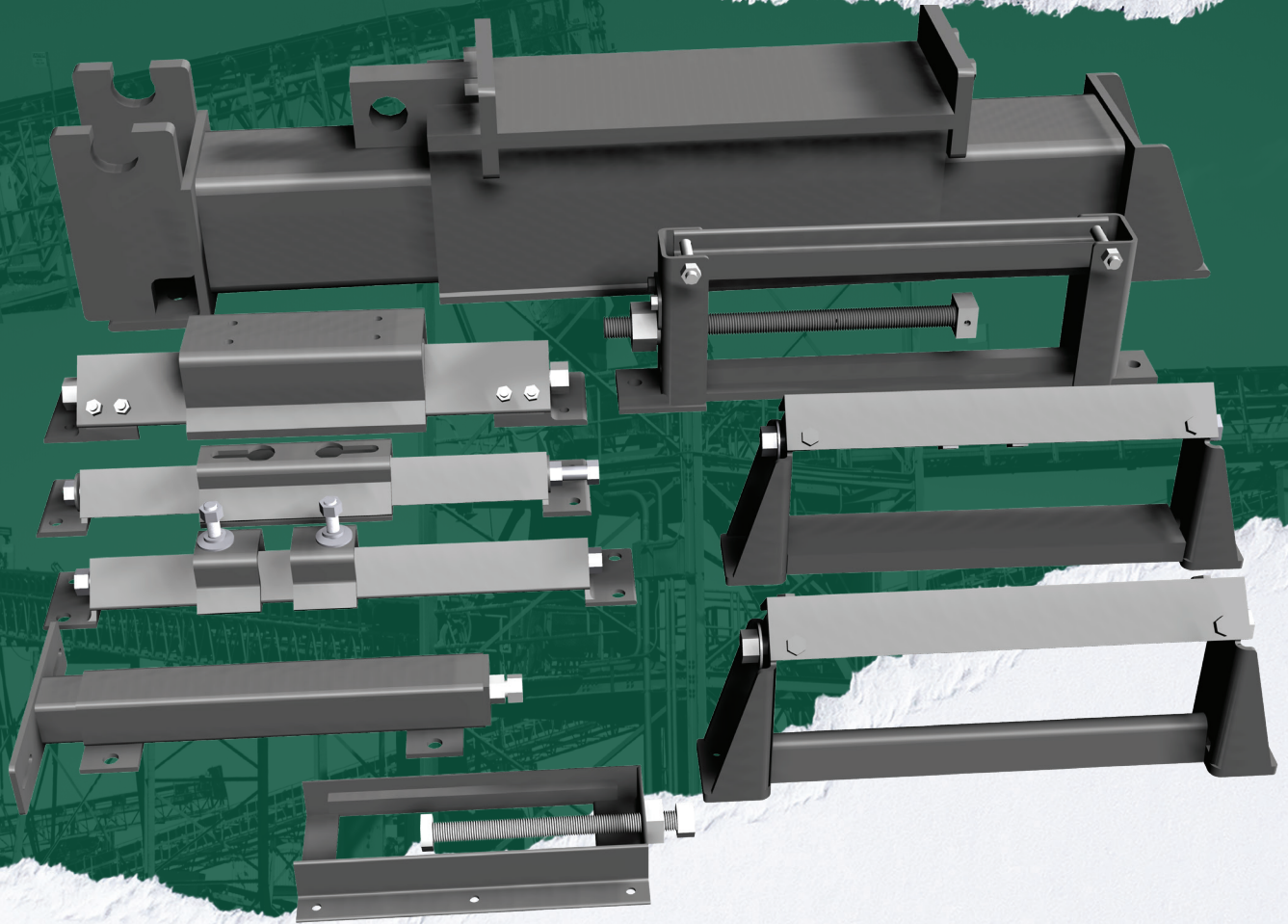




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ENGINEERING & DIMENSIONS

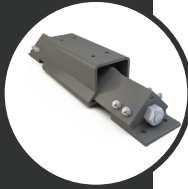
**TAKE-UP FRAMES**



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## HEAVY DUTY (PHD) TAKE-UP FRAMES

Heavy Duty Take-Up Frames are made of welded and bolted steel construction. The adjusting screw, which is fully protected, offers maximum strength and ease of adjustment. Also available in extra heavy duty construction.



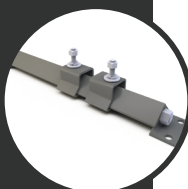
## HYDRAULIC CYLINDER (HYD)

Large take up frames require more torque. A Hydraulic Cylinder helps provide the power needed to move the frame. The Hydraulic Cylinder (HYD) features a standard series 2HD cylinder with clevis and pin for PHYD. The cylinders have lip seals, breathers and SEA ports.



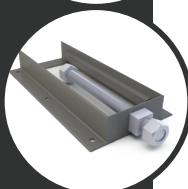
## MEDIUM DUTY (PMD) TAKE-UP FRAMES

PPI Medium Duty Take-Up Frames offer convenience with the ability to use with ball, spherical and sleeve bearings, as well as extra strength due to a one-piece saddle. The adjusting screw is protected from falling material by the steel angle. The adjusting screw is always in tension regardless of direction of the bearing load.



## LIGHT DUTY (PLD) TAKE-UP FRAMES

PPI Light Duty Take-Up Frames give the convenience of use with ball, spherical and sleeve bearings. The adjusting screw is protected from falling material by the steel angle. The adjusting screw is always in tension regardless of direction of bearing load.



## WIDE SLOT (PWS) TAKE-UP FRAMES

The PPI Wide Slot Take-Up Frame provides a compact and economical frame that will accept all manufacturers' ball bearing cartridge. This Take-Up frame is especially useful on packaging and other lightweight special conveyors.



## CENTER PULL (PCP) TAKE-UP FRAMES

Center Pull Take-Up Frames use welded steel construction with reinforced steel end plates. The bolted cap rail allows easy access for quick and easy bearing installation.



## TOP ANGLE (PTA) TAKE-UP FRAMES

PPI Top Angle Take-Up Frames are made of welded steel. The adjusting screw is plated to resist corrosion and is protected by the top angle from falling material. Top Angle Take-Up Frames may be used with sleeve type, ball or tapered roller bearings [where the housing fits a round bottom frame].



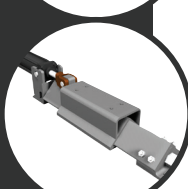
## PROTECTED ANGLE (PPA) TAKE-UP FRAMES

PPI Protected Angle Take-Up Frames are made of welded steel. The adjusting screw is plated to resist corrosion and is protected by the top angle from falling material. Top Angle Take-Up Frames may be used with sleeve type, ball or tapered roller bearings [that fit a channel bottom frame].



## SLIDE TUBE (PST) TAKE-UP FRAMES

The PPI Slide Tube Take-Up Frame provides a compact and economical frame that will accept all manufacturers pillow blocks. This frame is especially useful on packaging and other lightweight special conveyors.



## HEAVY DUTY HYDRAULIC (PHYD) TAKE-UP FRAMES

Hydraulic Heavy Duty Take-Up Frames are made of welded and bolted steel construction. The adjusting screw, which is fully protected, offers maximum strength and locks the saddle into place. The hydraulic cylinder provides ease of adjustment and accuracy of tightening.

# TAKE-UP INTERCHANGE

## PHD/PHYD\* - HEAVY DUTY & HYDRAULIC TAKE-UP FRAMES

| TAKE-UP FRAMES |        |        |          |        |                  |          |            |            |
|----------------|--------|--------|----------|--------|------------------|----------|------------|------------|
| PPI            | CCI    | DODGE  | LINKBELT | MARTIN | SKF              | SUPERIOR | VAN GORP   | BROWNING   |
| PHD200         | CHD200 | HD-200 | LHD20    | MHD200 | TFT 1,2          | TUHD-200 | T2000A,B,C | T2000A,B,C |
| PHD208         | CHD250 | HD-250 | LHD25    | MHD250 | TFT 3, 43        | TUHD-250 | T2000D,E   | T2000D,E   |
| PHD300         | CHD300 | HD-300 | LHD30    | MHD300 | TFT 4, 5, 34, 44 | TUHD-300 | T2000F,G   | T2000F,G   |
| PHD308         | CHD350 | HD-350 | LHD35    | MHD350 | TFT 6, 36, 46    | TUHD-350 | T2000H,J   | T2000H,J   |
| PHD400         | CHD400 | HD-400 | LHD40    | MHD400 | TFT 7, 37        | TUHD-400 | T2000K     | T2000K     |
| PHD500         | CHD500 | HD-500 | LHD50    | MHD500 | TFT 38, 48       | TUHD-500 | T2000M,N   | T2000M,N   |
| PHD600         | -      | -      | -        | -      | -                | TUHD-600 | -          | -          |
| PHD800         | -      | -      | -        | -      | -                | TUHD-800 | -          | -          |
| PHD1000        | -      | -      | -        | -      | -                | -        | -          | -          |

| BEARINGS                |               |               |             |             |                           |             |             |               |               |             |             |
|-------------------------|---------------|---------------|-------------|-------------|---------------------------|-------------|-------------|---------------|---------------|-------------|-------------|
| PPI<br>TAKE-UP<br>FRAME | PPI           |               | DODGE       |             |                           | LINKBELT    |             |               | SKF           |             |             |
|                         | SAF           | TYPE E        | TYPE E      | S-2000      | SAF-XT/USAF/<br>SAFS/ISAF | EPB22400    | PB22400     | PB2500        | (F)SYE        | SYR         | SAF22500    |
| PHD200                  | up to 2 3/16  | up to 2 7/16  | up to 2 1/2 | up to 3     | up to 2 3/16              | up to 2 1/2 | up to 3     | up to 2 3/16  | up to 2 1/2   | up to 3     | up to 2 1/4 |
| PHD208                  | up to 2 15/16 | up to 2 15/16 | up to 3     | up to 3 1/2 | up to 3                   | up to 3     | up to 3 1/2 | up to 2 15/16 | up to 3       | up to 3 1/2 | up to 3     |
| PHD300                  | up to 3 3/16  | up to 3 7/16  | up to 3 1/2 | up to 3 1/2 | up to 3 3/16              | up to 3 1/2 | up to 3 1/2 | up to 3 7/16  | up to 3 1/2   | up to 4     | up to 3 1/4 |
| PHD308                  | up to 3 7/16  | up to 3 15/16 | up to 4     | up to 4     | up to 3 1/2               | up to 4     | up to 4     | up to 4       | up to 4       | -           | up to 3 1/2 |
| PHD400                  | up to 4 7/16  | up to 4 15/16 | up to 5     | up to 5     | up to 4 1/2               | up to 5     | up to 5     | up to 5       | up to 4 15/16 | -           | up to 4 1/2 |
| PHD500                  | up to 5 7/16  | -             | up to 6     | -           | up to 5 1/2               | -           | -           | -             | -             | -           | up to 5 1/2 |
| PHD600                  | up to 5 15/16 | -             | up to 7     | -           | up to 6                   | -           | -           | -             | -             | -           | up to 6     |
| PHD800                  | up to 8 15/16 | -             | -           | -           | up to 9                   | -           | -           | -             | -             | -           | up to 9     |
| PHD1000                 | up to 10 7/16 | -             | -           | -           | up to 12                  | -           | -           | -             | -             | -           | up to 12    |

\*For other PHD/PHYD sizes, contact your local PPI Representative.

## PMD - MEDIUM DUTY TAKE-UP FRAMES

| TAKE-UP FRAMES |                |              |       |                  |                |          | BEARINGS         |                   |                  |                 |                  |                  |                 |                 |
|----------------|----------------|--------------|-------|------------------|----------------|----------|------------------|-------------------|------------------|-----------------|------------------|------------------|-----------------|-----------------|
| PPI            | BROWNING<br>TF | MARTIN (CCI) | DODGE | HUB CITY<br>T210 | LINKBELT<br>LC | SUPERIOR | PPI              |                   | DODGE            |                 |                  |                  | LINKBELT        | SKF             |
|                |                |              |       |                  |                |          | TYPE E           | PSCM              | SC               | SCM             | S-2000           | TYPE E           | 22400           | SYR             |
| PMD100         | TF16           | MLD10        | LD10  | BC-3             | LC1            | TULD-100 | -                | -                 | 1/2 - 1          | -               | -                | -                | 1 - 1 1/4       | -               |
| PMD108         | -              | MLD20        | LD20  | -                | -              | TULD-200 | 1 7/16           | 1 3/16 - 1 7/16   | 1 1/16 - 1 3/4   | 1 - 1 5/8       | 1 3/8 - 1 3/4    | 1 3/16 - 1 11/16 | 1 7/16 - 1 3/4  | 1 3/8 - 1 3/4   |
| PMD200         | TF31           | MLD30        | LD30  | DH-3             | LC2            | TULD-300 | -                | -                 | 1 15/16 - 2      | 1 11/16 - 1 3/4 | 1 15/16 - 2      | -                | 1 15/16 - 2     | 1 15/16 - 2     |
| PMD208         | TF39           | MLD40        | LD40  | JK-3             | LC3            | TULD-400 | 1 15/16 - 2 7/16 | 1 11/16 - 1 15/16 | 1 15/16 - 2 7/16 | 1 11/16 - 2 1/4 | 1 15/16 - 2 7/16 | 1 3/4 - 2 1/2    | 1 15/16 - 2 1/2 | 2 3/16 - 2 7/16 |
| PMD300         | -              | MLD45        | LD45  | -                | -              | TULD-450 | 2 15/16          | 2 3/16 - 2 7/16   | 2 1/2 - 2 11/16  | 2 7/16 - 3      | 2 11/16 - 3 7/16 | 2 11/16 - 3      | 2 11/16 - 3     | 2 11/16 - 3     |
| PMD308         | -              | MLD50        | LD50  | -                | -              | TULD-500 | 3 7/16           | 2 15/16 - 3 7/16  | 2 15/16          | 3 3/16 - 3 1/2  | 3 15/16          | 3 3/16 - 3 1/2   | 3 3/16 - 4      | 3 7/16          |

## PLD - LIGHT DUTY TAKE-UP FRAMES

| TAKE-UP FRAMES |       |                |                | BEARINGS         |                   |                  |                 |                 |                 |                 |
|----------------|-------|----------------|----------------|------------------|-------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| PPI            | DODGE | LINKBELT<br>LC | BROWNING<br>TF | PPI              |                   | DODGE            |                 |                 |                 | LINKBELT        |
|                |       |                |                | TYPE E           | SCM               | SC, SY           | SCM, SYM        | S-2000          | TYPE E          | 22400           |
| PLD100         | LD10  | LC1            | TF16           | -                | -                 | 1/2 - 7/8        | -               | -               | 1 3/16 - 1 1/4  | 1-1 1/4         |
| PLD108         | LD20  | -              | -              | 1 7/16           | 1 3/16 - 1 7/16   | 1 1/16 - 1 3/4   | 1-1 5/8         | 1 1/8 - 1 3/4   | 1 3/8 - 1 11/16 | 1 7/16 - 1 3/4  |
| PLD200         | LD30  | LC2            | TF31           | -                | -                 | 1 15/16          | 1 11/16 - 1 3/4 | -               | -               | -               |
| PLD208         | LD40  | LC3            | TF39           | 1 15/16 - 2 7/16 | 1 11/16 - 1 15/16 | 1 15/16 - 2 7/16 | 1 11/16 - 2 1/4 | 1 7/8 - 2 1/2   | 1 3/4 - 2 1/2   | 1 15/16 - 2 1/2 |
| PLD300         | LD45  | -              | -              | 2 15/16          | 2 3/16 - 2 15/16  | 2 1/2 - 2 15/16  | 2 7/16 - 2 1/2  | 2 11/16 - 3 1/2 | 2 11/16 - 3     | 2 11/16 - 3 1/2 |
| PLD308         | LD50  | -              | -              | 3 7/16           | 2 15/16 - 3 7/16  | 2 15/16          | 2 11/16 - 3 1/2 | 3 3/16 - 4      | 3 3/16 - 3 1/2  | 3 11/16 - 4     |

## PST - SLIDE TUBE TAKE-UP FRAME

| TAKE-UP FRAMES |        | BEARINGS         |                 |                 |                |                 |                |                |                |                 |
|----------------|--------|------------------|-----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|-----------------|
| PPI            | BRYANT | PPI              |                 | DODGE           |                |                 |                | LINKBELT       |                |                 |
|                |        | SCM              | TYPE E          | SC              | SCM            | E/K             | S-2000         | U200           | U300           | 22400           |
| PST250         | 250    | 1 3/16           | -               | 1 1/16 - 1 7/16 | 1 - 1 7/16     | 1 3/16 - 1 7/16 | 1 1/8 - 1 1/2  | 1 1/2 - 1 7/16 | 3/4 - 1        | 1 7/16 - 1 1/2  |
| PST300         | 300    | 1 7/16 - 2 1/4   | 1 7/16 - 2 3/16 | 1 1/2 - 2 7/16  | 1 7/16 - 2 1/4 | 1 3/8 - 2 3/16  | 1 5/8 - 2 1/4  | 1 1/2 - 2 7/16 | 3/4 - 1 7/16   | 1 7/16 - 2 1/2  |
| PST350         | 350HD  | 1 7/16 - 2 1/4   | 1 7/16 - 2 3/16 | 1 1/2 - 2 7/16  | 1 7/16 - 2 1/4 | 1 3/8 - 2 3/16  | 1 5/8 - 3      | 1 1/2 - 2 7/16 | 3/4 - 1 7/16   | 1 7/16 - 2 1/2  |
| PST400         | 400    | 2 7/16 - 2 15/16 | 2 7/16 - 3 7/16 | 2 1/2 - 2 15/16 | 2 7/16 - 3 1/2 | 2 1/4 - 3 1/2   | 3 3/16 - 3 1/2 | 2 1/2 - 3 1/2  | 1 1/2 - 2 7/16 | 2 11/16 - 3 1/2 |
| PST500         | 500    | up to 3 7/16     | up to 3 15/16   | up to 2 15/16   | up to 3 1/2    | up to 4         | up to 4        | up to 4        | up to 3 15/16  | up to 4         |

## PCP - CENTER PULL TAKE-UP FRAME

| TAKE-UP FRAMES |        |          |         | BEARINGS       |                   |                |                 |                |                 |
|----------------|--------|----------|---------|----------------|-------------------|----------------|-----------------|----------------|-----------------|
| PPI            | DODGE  | BROWNING | REXNORD | DODGE          |                   | LINKBELT       | BROWNING        |                | REXNORD         |
|                |        |          |         | WSTU<br>TYPE E | WSTU S2<br>S-2000 | T-B22400H      | TUE920          | STU1000        | ZT              |
| PCP108         | CP308  | -        | -       | 1 3/8 - 1 7/16 | 1 1/8 - 1 1/2     | 1 3/16 - 1 1/2 | 1 3/8 - 1 7/16  | -              | -               |
| PCP200         | CP400  | 1000D    | ZHT-6   | 1 1/2 - 2      | 1 11/16 - 2       | 1 5/8 - 2      | 1 1/2 - 2       | 1 15/16 - 2    | 1 1/2 - 1 15/16 |
| PCP203         | CP408  | 1000EH   | ZHT-7   | 2 3/16         | 2 3/16 - 2 1/4    | 2 3/16 - 2 1/4 | 2 3/16          | 2 3/16         | 2 - 2 3/16      |
| PCP208         | CP502  | 1000F    | ZHT-8   | 2 1/4 - 2 1/2  | 2 7/16 - 2 1/2    | 2 7/16 - 2 1/2 | 2 7/16          | 2 7/16 - 2 1/2 | 2 7/16          |
| PCP300         | CP515  | 1000GH   | ZHT-9   | 2 11/16 - 3    | 2 11/16 - 3       | 2 11/16 - 3    | 2 15/16         | 2 11/16 - 3    | 2 1/2 - 2 15/16 |
| PCP308         | CP613  | 1000JH   | ZHT-10  | -              | 3 1/4 - 3 1/2     | 3 7/16 - 3 1/2 | 3 7/16          | 3 3/16 - 3 1/2 | 3 3/16 - 3 7/16 |
| PCP400         | CP810  | 1000K    | ZHT-11  | -              | 3 11/16 - 4       | 4**            | 3 15/16 - 4 1/2 | 3 11/16 - 4    | 3 11/16 - 4     |
| PCP408         | CP908  | -        | ZHT-12  | -              | 4 7/16 - 4 1/2    | -              | -               | -              | 4 3/16 - 4 7/16 |
| PCP500         | CP1004 | -        | ZHT-13  | -              | 4 15/16           | -              | -               | -              | 4 15/16 - 5     |

\*\*The LinkBelt 3-15/16 Wide Slot requires a different frame, i.e. PCP400LB.

NOTE: While both PCP and PWS use the same dimensions for the rails and bearing housing slots, i.e. the rails will fit Wide Slot Take-Up housings, this does not mean that all wide slot bearings will fit into a PWS. A PWS has tighter clearances, designed for the narrow housings of a normal or medium duty ball bearing. As such, they are NOT designed for a roller bearing. (A roller bearing unit MIGHT fit into a PWS, but it will need to be confirmed.) However, the PCP has no such restrictions and can be used with both ball and roller bearing Wide Slot Take-Up Frame housings.

## PWS - WIDE SLOT TAKE-UP FRAME

| TAKE-UP FRAMES |       |                     | BEARINGS        |                  |                 |                |                |                 |                |                 |
|----------------|-------|---------------------|-----------------|------------------|-----------------|----------------|----------------|-----------------|----------------|-----------------|
| PPI            | DODGE | HUB CITY<br>(WS200) | DODGE           |                  | SKF             |                | LINKBELT       | HUB CITY        |                | BROWNING        |
|                |       |                     | WSTU-SC<br>SC   | WSTU-SCM<br>SCM  | TBY             | TBYM           | T-U300         | WSTU220         | WSTU250        | VTWS/VTWE       |
| PWS100         | WS300 | BC                  | 1/2 - 1         | -                | 3/4 - 1         | -              | 7/8 - 1        | 3/4 - 1         | 3/4 - 1        | 1/2 - 1         |
| PWS108         | WS308 | DE                  | 1 1/16 - 1 7/16 | 1 - 1 1/4        | 1 1/16 - 1 7/16 | -              | 1 1/4 - 1 7/16 | 1 1/8 - 1 7/16  | 1 1/8 - 1 7/16 | 1 1/8 - 1 7/16  |
| PWS200         | WS400 | FH                  | 1 1/2 - 2       | 1 7/16 - 1 3/4   | 1 1/2 - 1 15/16 | 1 7/16 - 1 3/4 | 1 1/2          | 1 1/2 - 2       | 1 1/2          | 1 1/2 - 1 15/16 |
| PWS208         | WS502 | JK                  | 2 - 2 7/16      | 1 15/16 - 2 1/4  | 2 - 2 3/16      | 1 15/16        | 1 15/16        | 2 3/16 - 2 7/16 | 2 3/16         | 2 - 2 7/16      |
| PWS300         | WS515 | -                   | 2 1/2 - 2 15/16 | 2 7/16 - 2 11/16 | -               | -              | 2 1/4 - 2 7/16 | -               | -              | -               |
| PWS308         | WS608 | -                   | -               | 2 15/16 - 3      | -               | -              | -              | -               | -              | -               |

## PPA - PROTECTED ANGLE TAKE-UP FRAME (Fits Channel Bottom Housing)

| TAKE-UP FRAMES |         |       | BEARINGS     |            |           |                  |                |
|----------------|---------|-------|--------------|------------|-----------|------------------|----------------|
| PPI            | REXNORD | SKF   | LINKBELT     |            |           | SKF              | REXNORD        |
|                |         |       | TDS(3)-U200N | DS-B22400H | DS-LB6800 | TY               | ZNT            |
| PPA200         | ZNT 6   | PA-1  | 1 15/16      | 1 15/16    | -         | -                | 1 15/16 - 2    |
| PPA203         | ZNT 7   | PA-2  | 2 3/16       | 2 3/16     | -         | -                | 2 3/16 - 2 1/4 |
| PPA208         | ZNT 8   | PA-11 | 2 7/16       | 2 7/16     | -         | -                | 2 3/8 - 2 1/2  |
| PPA300         | ZNT 9   | PA-4  | 2 15/16      | 2 15/16    | 2 7/16    | 2 7/16           | 2 11/16 - 3    |
| PPA308         | ZNT 10  | PA-5  | 3 7/16       | 3 7/16     | 2 15/16   | 2 15/16          | 3 3/16 - 3 1/2 |
| PPA400         | ZNT 11  | PA-6  | 3 15/16      | 3 15/16    | 3 7/16    | 3 7/16 - 3 15/16 | 3 11/16 - 4    |
| PPA408         | -       | -     | -            | -          | 3 15/16   | -                | -              |

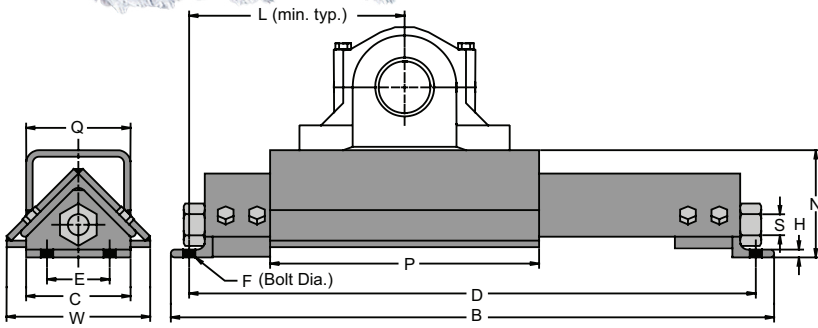
While the PTA & PPA have the same mounting dimensions, they fit two different styles of Take-Up Frame housings.

## PTA - TOP ANGLE TAKE-UP FRAME (Fits Round Bottom Housing)

| TAKE-UP FRAMES |       | BEARINGS       |                 |                  |                |                |
|----------------|-------|----------------|-----------------|------------------|----------------|----------------|
| PPI            | DODGE | DODGE          |                 |                  |                | LINKBELT       |
|                |       | TPE/TPK<br>E/K | G<br>SC         | GM<br>SCM        | TPHU<br>S-2000 | ETP<br>TYPE E  |
| PTA200         | TP10  | 1 3/4 - 2      | 1 15/16 - 2     | 1 11/16 - 1 3/4  | 2              | 1 3/4 - 2      |
| PTA203         | TP20  | 2 3/16         | 2 - 2 1/4       | 1 15/16 - 2      | -              | 2 3/16         |
| PTA208         | TP30  | 2 1/4 - 2 1/2  | 2 1/4 - 2 7/16  | 2 3/16 - 2 1/4   | 2 3/16         | 2 1/4 - 2 1/2  |
| PTA300         | TP40  | 2 11/16 - 3    | 2 1/2 - 2 15/16 | 2 7/16 - 2 11/16 | 3              | 2 11/16 - 3    |
| PTA308         | TP50  | 3 3/16 - 3 1/2 | -               | 2 15/16 - 3      | 3 7/16         | 3 3/16 - 3 1/2 |
| PTA400         | TP60  | 3 15/16 - 4    | -               | 3 7/16 - 3 1/2   | 3 15/16        | 3 15/16 - 4    |

While the PTA & PPA have the same mounting dimensions, they fit two different styles of Take-Up Frame housings.

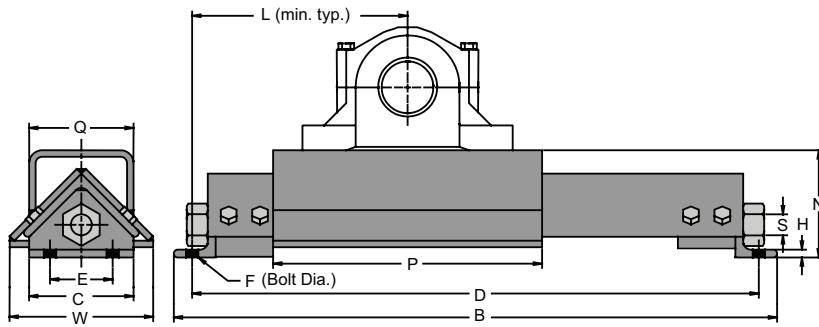
# PRECISION HEAVY DUTY (PHD)



- Pillow block mounting holes drilled to order
- Pillow block mounting bolts included
- Uses standard pillow blocks
- PHD 200-600 use angle iron
- PHD 800 -1000 use heavy wall square tubing
- Stainless steel threaded rods are available

| Size   | Travel | Wt. | B       | C     | D      | E     | F Bolt Dia | H   | L      | N     | P      | Q | S Rod Dia | W     |
|--------|--------|-----|---------|-------|--------|-------|------------|-----|--------|-------|--------|---|-----------|-------|
| PHD200 | 12     | 49  | 30 5/16 | 5     | 29     | 2 1/2 | 5/8        | 1/4 | 9 3/4  | 5 1/4 | 11     | 4 | 1         | 6 1/8 |
|        | 18     | 53  | 36 5/16 |       | 35     |       |            |     |        |       |        |   |           |       |
|        | 24     | 57  | 42 5/16 |       | 41     |       |            |     |        |       |        |   |           |       |
|        | 30     | 61  | 48 5/16 |       | 47     |       |            |     |        |       |        |   |           |       |
|        | 36     | 66  | 54 5/16 |       | 53     |       |            |     |        |       |        |   |           |       |
|        | 48     | 74  | 66 5/16 |       | 65     |       |            |     |        |       |        |   |           |       |
|        | 60     | 82  | 78 5/16 |       | 77     |       |            |     |        |       |        |   |           |       |
| PHD208 | 12     | 84  | 35 1/4  | 5 1/2 | 32 3/4 | 3     | 5/8        | 3/8 | 10 7/8 | 6 1/4 | 13 1/4 | 5 | 1         | 7 1/8 |
|        | 18     | 90  | 41 1/4  |       | 38 3/4 |       |            |     |        |       |        |   |           |       |
|        | 24     | 96  | 47 1/4  |       | 44 3/4 |       |            |     |        |       |        |   |           |       |
|        | 30     | 102 | 53 1/4  |       | 50 3/4 |       |            |     |        |       |        |   |           |       |
|        | 36     | 109 | 59 1/4  |       | 56 3/4 |       |            |     |        |       |        |   |           |       |
|        | 48     | 121 | 71 1/4  |       | 68 3/4 |       |            |     |        |       |        |   |           |       |
|        | 60     | 133 | 83 1/4  |       | 80 3/4 |       |            |     |        |       |        |   |           |       |
| PHD300 | 12     | 139 | 38 1/4  | 6 1/2 | 35 1/2 | 3     | 3/4        | 1/2 | 11 3/4 | 7     | 14 1/4 | 6 | 1 1/4     | 8 3/4 |
|        | 18     | 149 | 44 1/4  |       | 41 1/2 |       |            |     |        |       |        |   |           |       |
|        | 24     | 159 | 50 1/4  |       | 47 1/2 |       |            |     |        |       |        |   |           |       |
|        | 30     | 169 | 56 1/4  |       | 53 1/2 |       |            |     |        |       |        |   |           |       |
|        | 36     | 179 | 62 1/4  |       | 59 1/2 |       |            |     |        |       |        |   |           |       |
|        | 48     | 200 | 74 1/4  |       | 71 1/2 |       |            |     |        |       |        |   |           |       |
|        | 60     | 220 | 86 1/4  |       | 83 1/2 |       |            |     |        |       |        |   |           |       |
| PHD308 | 12     | 149 | 40      | 6 1/2 | 37 1/4 | 3     | 3/4        | 1/2 | 12 5/8 | 7     | 16     | 6 | 1 1/4     | 8 3/4 |
|        | 18     | 159 | 46      |       | 43 1/4 |       |            |     |        |       |        |   |           |       |
|        | 24     | 169 | 52      |       | 49 1/4 |       |            |     |        |       |        |   |           |       |
|        | 30     | 179 | 58      |       | 55 1/4 |       |            |     |        |       |        |   |           |       |
|        | 36     | 190 | 64      |       | 61 1/4 |       |            |     |        |       |        |   |           |       |
|        | 48     | 210 | 76      |       | 73 1/4 |       |            |     |        |       |        |   |           |       |
|        | 60     | 230 | 88      |       | 85 1/4 |       |            |     |        |       |        |   |           |       |
| PHD400 | 12     | 178 | 44      | 6 1/2 | 41 1/4 | 3     | 3/4        | 1/2 | 14 5/8 | 7     | 20     | 7 | 1 1/4     | 8 3/4 |
|        | 18     | 188 | 50      |       | 47 1/4 |       |            |     |        |       |        |   |           |       |
|        | 24     | 199 | 56      |       | 53 1/4 |       |            |     |        |       |        |   |           |       |
|        | 30     | 209 | 62      |       | 59 1/4 |       |            |     |        |       |        |   |           |       |
|        | 36     | 219 | 68      |       | 65 1/4 |       |            |     |        |       |        |   |           |       |
|        | 48     | 239 | 80      |       | 77 1/4 |       |            |     |        |       |        |   |           |       |
|        | 60     | 259 | 92      |       | 89 1/4 |       |            |     |        |       |        |   |           |       |

# PRECISION HEAVY DUTY (PHD)



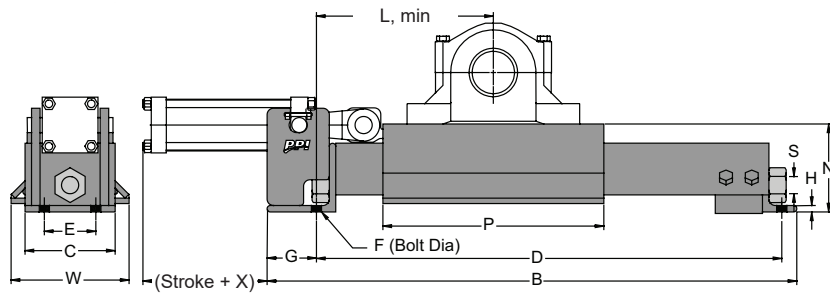
- Pillow block mounting holes drilled to order
- Pillow block mounting bolts included
- Uses standard pillow blocks
- PHD 200-600 use angle iron
- PHD 800 -1000 use heavy wall square tubing
- Stainless steel threaded rods are available

| Size    | Travel | Wt.  | B       | C  | D       | E | F Bolt Dia | H   | L      | N      | P      | Q     | S Rod Dia | W      |
|---------|--------|------|---------|----|---------|---|------------|-----|--------|--------|--------|-------|-----------|--------|
| PHD500  | 12     | 308  | 49 1/2  | 7  | 47      | 4 | 7/8        | 1/2 | 16 1/2 | 7 3/4  | 23 1/2 | 8 1/2 | 1 1/2     | 10 3/4 |
|         | 18     | 325  | 55 1/2  |    | 53      |   |            |     |        |        |        |       |           |        |
|         | 24     | 342  | 61 1/2  |    | 59      |   |            |     |        |        |        |       |           |        |
|         | 30     | 360  | 67 1/2  |    | 65      |   |            |     |        |        |        |       |           |        |
|         | 36     | 377  | 73 1/2  |    | 71      |   |            |     |        |        |        |       |           |        |
|         | 48     | 412  | 85 1/2  |    | 83      |   |            |     |        |        |        |       |           |        |
|         | 60     | 446  | 97 1/2  |    | 95      |   |            |     |        |        |        |       |           |        |
| PHD600  | 12     | 537  | 57 3/4  | 10 | 54 1/4  | 6 | 1          | 3/4 | 20 5/8 | 10 1/4 | 25 3/4 | 10    | 2         | 13 3/4 |
|         | 18     | 562  | 63 3/4  |    | 60 1/4  |   |            |     |        |        |        |       |           |        |
|         | 24     | 587  | 69 3/4  |    | 66 1/4  |   |            |     |        |        |        |       |           |        |
|         | 30     | 611  | 75 3/4  |    | 72 1/4  |   |            |     |        |        |        |       |           |        |
|         | 36     | 636  | 81 3/4  |    | 78 1/4  |   |            |     |        |        |        |       |           |        |
|         | 48     | 686  | 93 3/4  |    | 90 1/4  |   |            |     |        |        |        |       |           |        |
|         | 60     | 735  | 105 3/4 |    | 102 1/4 |   |            |     |        |        |        |       |           |        |
| PHD800  | 12     | 749  | 70 7/8  | 12 | 60 7/8  | 6 | 1 1/4      | 3/4 | 21 1/4 | 12 3/4 | 36     | 12    | 2 1/2     | 12     |
|         | 18     | 773  | 76 7/8  |    | 66 7/8  |   |            |     |        |        |        |       |           |        |
|         | 24     | 797  | 82 7/8  |    | 72 7/8  |   |            |     |        |        |        |       |           |        |
|         | 30     | 821  | 88 7/8  |    | 78 7/8  |   |            |     |        |        |        |       |           |        |
|         | 36     | 845  | 94 7/8  |    | 84 7/8  |   |            |     |        |        |        |       |           |        |
|         | 48     | 894  | 106 7/8 |    | 96 7/8  |   |            |     |        |        |        |       |           |        |
|         | 60     | 942  | 118 7/8 |    | 108 7/8 |   |            |     |        |        |        |       |           |        |
| PHD1000 | 12     | 1160 | 76 1/2  | 14 | 66 1/2  | 6 | 1 1/2      | 3/4 | 23 1/4 | 15 5/8 | 40     | 14    | 3         | 14     |
|         | 18     | 1199 | 82 1/2  |    | 72 1/2  |   |            |     |        |        |        |       |           |        |
|         | 24     | 1239 | 88 1/2  |    | 78 1/2  |   |            |     |        |        |        |       |           |        |
|         | 30     | 1278 | 94 1/2  |    | 84 1/2  |   |            |     |        |        |        |       |           |        |
|         | 36     | 1317 | 100 1/2 |    | 90 1/2  |   |            |     |        |        |        |       |           |        |
|         | 48     | 1395 | 112 1/2 |    | 102 1/2 |   |            |     |        |        |        |       |           |        |
|         | 60     | 1491 | 124 1/2 |    | 114 1/2 |   |            |     |        |        |        |       |           |        |

Mounting holes (D&T) for pillow blocks are done per order. For other sizes, contact your local PPI Representative.



# PRECISION HEAVY DUTY (PHYD)

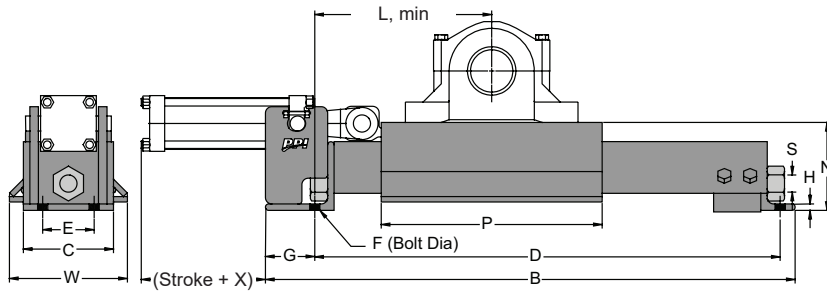


- Saddle movement assisted with hydraulic cylinder
- Uses standard rod end trunion mount cylinders
- Standard set up is pull
- PHYD 200-600 use angle iron
- PHYD 800 -1000 use heavy wall square tubing
- Stainless steel threaded rods are available

| Size    | Travel | Wt. | B       | C      | D       | E | F Bolt Dia | H   | L      | N      | P      | Q     | S Rod Dia | W      | G      | X     | Available Cylinders |
|---------|--------|-----|---------|--------|---------|---|------------|-----|--------|--------|--------|-------|-----------|--------|--------|-------|---------------------|
| PHYD300 | 12     | 149 | 40 1/4  | 7 1/2  | 35 1/2  | 3 | 3/4        | 1/2 | 11 1/2 | 7      | 14 1/4 | 6     | 11/4      | 8 3/4  | 3 3/8  | 2 1/2 | 2010                |
|         | 18     | 160 | 46 1/4  |        | 41 1/2  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 24     | 170 | 52 1/4  |        | 47 1/2  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 30     | 180 | 58 1/4  |        | 53 1/2  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 36     | 190 | 64 1/4  |        | 59 1/2  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 48     | 210 | 76 1/4  |        | 71 1/2  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 60     | 230 | 88 1/4  |        | 83 1/2  |   |            |     |        |        |        |       |           |        |        |       |                     |
| PHYD308 | 12     | 164 | 43      | 7 1/2  | 37 1/4  | 3 | 3/4        | 1/2 | 12 3/8 | 7      | 16     | 6     | 11/4      | 8 3/4  | 3 3/8  | 2 1/2 | 2010                |
|         | 18     | 174 | 49      |        | 43 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 24     | 184 | 55      |        | 49 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 30     | 195 | 61      |        | 55 1/4  |   |            |     |        |        |        |       |           |        | 4 5/16 | 2 1/2 | 2513                |
|         | 36     | 205 | 67      |        | 61 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 48     | 225 | 79      |        | 73 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 60     | 245 | 91      |        | 85 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
| PHYD400 | 12     | 195 | 47 1/4  | 7 1/2  | 41 1/4  | 3 | 3/4        | 1/2 | 14 1/2 | 7      | 20     | 7     | 11/4      | 8 3/4  | 4 5/16 | 2 3/4 | 2513                |
|         | 18     | 205 | 53 1/4  |        | 47 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 24     | 215 | 59 1/4  |        | 53 1/4  |   |            |     |        |        |        |       |           |        | 4 5/8  | 3 1/4 | 3213                |
|         | 30     | 225 | 65 1/4  |        | 59 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 36     | 235 | 71 1/4  |        | 65 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 48     | 256 | 83 1/4  |        | 77 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 60     | 276 | 95 1/4  |        | 89 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
| PHYD500 | 12     | 341 | 54 1/8  | 8 1/2  | 47      | 4 | 7/8        | 3/4 | 16 1/2 | 7 3/4  | 23 1/2 | 8 1/2 | 11/2      | 10 3/4 | 5 7/8  | 3 1/4 | 3217                |
|         | 18     | 358 | 60 1/8  |        | 53      |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 24     | 375 | 66 1/8  |        | 59      |   |            |     |        |        |        |       |           |        |        | 3 1/2 | 4017                |
|         | 30     | 393 | 72 1/8  |        | 65      |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 36     | 410 | 78 1/8  |        | 71      |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 48     | 445 | 90 1/8  |        | 83      |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 60     | 480 | 102 1/8 |        | 95      |   |            |     |        |        |        |       |           |        |        |       |                     |
| PHYD600 | 12     | 584 | 61 3/4  | 10 1/2 | 54 1/4  | 6 | 1          | 3/4 | 20 5/8 | 10 1/4 | 25 3/4 | 10    | 2         | 13 3/4 | 5 3/4  | 2 1/4 | 4020                |
|         | 18     | 609 | 67 3/4  |        | 60 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 24     | 633 | 73 3/4  |        | 66 1/4  |   |            |     |        |        |        |       |           |        |        | 2 3/4 | 5020                |
|         | 30     | 658 | 79 3/4  |        | 72 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 36     | 683 | 85 3/4  |        | 78 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 48     | 732 | 97 3/4  |        | 90 1/4  |   |            |     |        |        |        |       |           |        |        |       |                     |
|         | 60     | 782 | 109 3/4 |        | 102 1/4 |   |            |     |        |        |        |       |           |        |        |       |                     |



## PRECISION HEAVY DUTY (PHYD)



- Saddle movement assisted with hydraulic cylinder
- Uses standard rod end trunion mount cylinders
- Standard set up is pull
- PHYD 200-600 use angle iron
- PHYD 800 -1000 use heavy wall square tubing
- Stainless steel threaded rods are available

| Size     | Travel | Wt.  | B       | C  | D       | E | F Bolt Dia | H   | L      | N      | P  | Q  | S Rod Dia | W  | G     | X     | Available Cylinders |
|----------|--------|------|---------|----|---------|---|------------|-----|--------|--------|----|----|-----------|----|-------|-------|---------------------|
| PHYD800  | 12     | 805  | 71 5/8  | 12 | 60 7/8  | 6 | 1 1/4      | 3/4 | 29 1/8 | 12 3/4 | 33 | 12 | 2 1/2     | 12 | 5 3/4 | 2 1/2 | 5020                |
|          | 18     | 829  | 77 5/8  |    | 66 7/8  |   |            |     |        |        |    |    |           |    |       |       |                     |
|          | 24     | 853  | 83 5/8  |    | 72 7/8  |   |            |     |        |        |    |    |           |    |       |       |                     |
|          | 30     | 877  | 89 5/8  |    | 78 7/8  |   |            |     |        |        |    |    |           |    |       | 3 3/4 | 6025                |
|          | 36     | 901  | 95 5/8  |    | 84 7/8  |   |            |     |        |        |    |    |           |    |       |       |                     |
|          | 48     | 950  | 107 5/8 |    | 96 7/8  |   |            |     |        |        |    |    |           |    |       |       |                     |
|          | 60     | 1003 | 119 5/8 |    | 108 7/8 |   |            |     |        |        |    |    |           |    |       |       |                     |
| PHYD1000 | 12     | 1266 | 78 1/4  | 14 | 66 1/2  | 6 | 1 1/2      | 3/4 | 33 1/4 | 15 5/8 | 36 | 14 | 3         | 14 | 6 3/4 | 3 1/4 | 6025                |
|          | 18     | 1306 | 84 1/4  |    | 72 1/2  |   |            |     |        |        |    |    |           |    |       |       |                     |
|          | 24     | 1345 | 90 1/4  |    | 78 1/2  |   |            |     |        |        |    |    |           |    |       |       |                     |
|          | 30     | 1384 | 96 1/4  |    | 84 1/2  |   |            |     |        |        |    |    |           |    |       | 4 3/4 | 7030                |
|          | 36     | 1423 | 102 1/4 |    | 90 1/2  |   |            |     |        |        |    |    |           |    |       |       |                     |
|          | 48     | 1501 | 114 1/4 |    | 102 1/2 |   |            |     |        |        |    |    |           |    |       | 5 3/4 | 8035                |
|          | 60     | 1580 | 126 1/4 |    | 114 1/2 |   |            |     |        |        |    |    |           |    |       |       |                     |

Mounting holes (D&T) for pillow blocks are done per order. For other sizes, contact your local PPI Representative.

Hydraulic cylinders are shipped separate from the Take-Up Frame.

X value represents nominal dimensions with PPI supplied hydraulic cylinders.

See page 10 for PHYD hydraulic cylinders. To specify a PPI PHYD frame, select a cylinder from page 10, then add an "x" and the travel length.

For example: **PHYD400-2513x24** for a 400 frame, suitable for a 2513 cylinder and 24" of travel.

**HYD2513x24** for a cylinder with 2.5" bore, 1.375" rod with 24" stroke with clevis and pin.

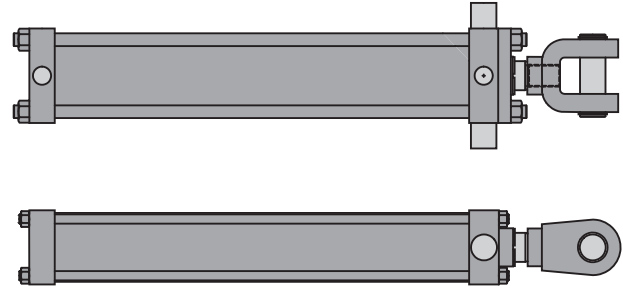
# PHYD HYDRAULIC CYLINDERS

All PHYD frames are set up for pull applications, unless specified on the order

All PHYD frames are designed for series 2HD head trunion mount cylinders (NFPA #MT1)

All PHYD frames are to be used with pillow block bearings

Hydraulic cylinders have lip seals and SAE ports, they extend past the frame approximately equal to the stroke plus X inches (refer to drawing on page 8)



| Part Number   | Cylinder  |          | Area         |              | Max Force |           | Max Pressure |            | Max Push Stroke* (in) | SAE Port Size |
|---------------|-----------|----------|--------------|--------------|-----------|-----------|--------------|------------|-----------------------|---------------|
|               | Bore (in) | Rod (in) | Pull (sq in) | Push (sq in) | Pull (lb) | Push (lb) | Pull (psi)   | Push (psi) |                       |               |
| PHYD300-2010  | 2         | 1        | 2,357        | 3,142        | 5,800     | 6,000     | 2,461        | 1,910      | 24                    | 8 or 10       |
| PHYD308-2010  | 2         | 1        | 2,357        | 3,142        | 5,800     | 8,000     | 2,461        | 2,546      | 18                    | 8 or 10       |
| PHYD308-2513  | 2 1/2     | 1 3/8    | 3,424        | 4,909        | 8,500     | 9,000     | 2,482        | 1,833      | 30                    |               |
| PHYD400-2513  | 2 1/2     | 1 3/8    | 3,424        | 4,909        | 8,500     | 12,000    | 2,482        | 2,444      | 30                    | 8 or 10       |
| PHYD400-3213  | 3 1/4     | 1 3/8    | 6,811        | 8,296        | 12,000    | 12,000    | 1,762        | 1,446      |                       | 12            |
| PHYD500-3217  | 3 1/4     | 1 3/4    | 5,891        | 8,296        | 14,500    | 18,000    | 2,461        | 2,170      | 30                    | 12            |
| PHYD500-4017  | 4         | 1 3/4    | 10,161       | 12,566       | 18,000    | 18,000    | 1,771        | 1,432      |                       |               |
| PHYD600-4020  | 4         | 2        | 9,424        | 12,566       | 23,000    | 30,000    | 2,441        | 2,387      | 30                    | 12            |
| PHYD600-5020  | 5         | 2        | 16,493       | 19,635       | 30,000    | 30,000    | 1,819        | 1,528      |                       |               |
| PHYD800-5020  | 5         | 2        | 16,493       | 19,635       | 36,000    | 43,000    | 2,183        | 2,190      | 30                    | 12            |
| PHYD800-6025  | 6         | 2 1/2    | 23,365       | 28,274       | 50,000    | 50,000    | 2,140        | 1,768      |                       | 16            |
| PHYD1000-6025 | 6         | 2 1/2    | 23,365       | 28,274       | 50,000    | 62,000    | 2,140        | 2,193      | 30                    | 16            |
| PHYD1000-7030 | 7         | 3        | 31,416       | 38,485       | 70,000    | 85,000    | 2,228        | 2,209      |                       | 20            |
| PHYD1000-8035 | 8         | 3 1/2    | 40,644       | 50,265       | 90,000    | 90,000    | 2,214        | 1,791      |                       | 24            |

\*Cylinders beyond max push stroke may have to be adjusted for the application, which will increase the X dimension. Consult PPI engineers for push applications beyond the max push stroke.

- To specify a PPI PHYD frame, add a "x" and the travel length to the part numbers above. For example:  
**PHYD400-2513x24** for a 400 frame, suitable for a 2513 cylinder and 24" of travel  
**PHYD2513x24**, for a cylinder with 2.5 bore, 1.375 rod with 24" stroke with clevis and pin
- Cylinders are available with an optional boot to protect the rod, add a B to the end of the cylinder part number
- For frame dimensions, see pages 8 & 9
- For other sizes & capacities, contact your local PPI Representative
- Hydraulic cylinders are shipped separate from the Take-Up Frame to minimize damage

## WHICH HOSE KIT TO ORDER

| CYLINDER SIZE | HOSE KIT           |
|---------------|--------------------|
| 2010          | M HOSE or M HOSE L |
| 2513          | M HOSE or M HOSE L |
| 3217          | M HOSE or M HOSE L |
| 4017          | M HOSE or M HOSE L |
| 4020          | M HOSE or M HOSE L |
| 5020          | M HOSE or M HOSE L |
| 6025          | L HOSE or L HOSE L |
| 7030          | L HOSE or L HOSE L |
| 8035          | X HOSE or X HOSE L |

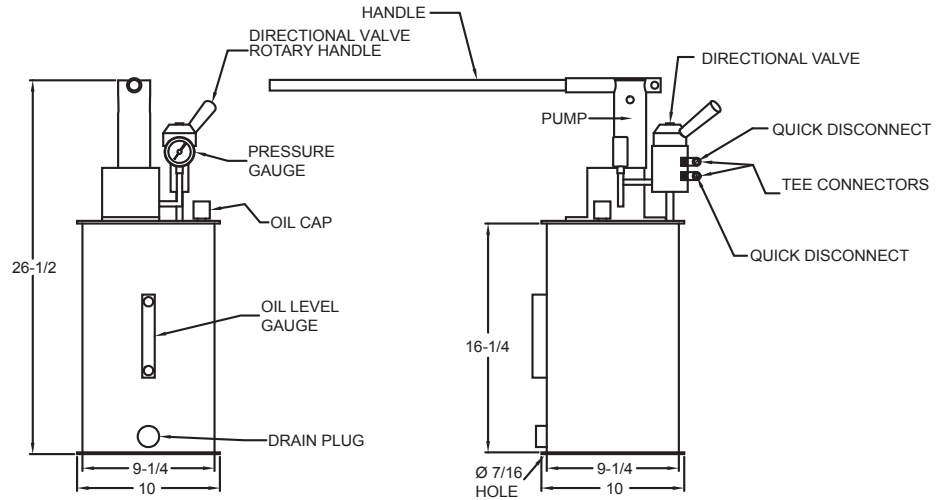
See page 11 for hose detail.

# HYDRAULIC HAND PUMP & HOSE KITS

## HYDH PUMP (75 lb)

| QTY | DESCRIPTION                                         |
|-----|-----------------------------------------------------|
| 1   | Hand pump                                           |
| 1   | Reservoir (5 GAL) with oil level gauge, drain & cap |
| 1   | Directional valve                                   |
| 2   | Tee connector                                       |
| 2   | Quick disconnect socket                             |
| 2   | Quick disconnect Plug                               |

Note: Oil is not included



## M HOSE - 15.8 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 3'    |
| 1   | Diameter: 3/8" • Length: 6'    |
| 1   | Diameter: 3/8" • Length: 12'   |
| 1   | Diameter: 3/8" • Length: 15'   |
| 4   | #10 to #8 SAE Port adapters    |
| 4   | #12 to #8 SAE Port adapters    |
| 2   | Quick connect socket (coupler) |
| 2   | Quick connect plug             |

## M HOSE L - 29.8 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 20'   |
| 1   | Diameter: 3/8" • Length: 23'   |
| 1   | Diameter: 3/8" • Length: 30'   |
| 1   | Diameter: 3/8" • Length: 33'   |
| 4   | #10 to #8 SAE Port adapters    |
| 4   | #12 to #8 SAE Port adapters    |
| 2   | Quick connect socket (coupler) |
| 2   | Quick connect plug             |

## L HOSE - 18.2 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 3'    |
| 1   | Diameter: 3/8" • Length: 6'    |
| 1   | Diameter: 3/8" • Length: 12'   |
| 1   | Diameter: 3/8" • Length: 15'   |
| 4   | #16 to #8 SAE Port adapters    |
| 4   | #20 to #8 SAE Port adapters    |
| 2   | Quick connect socket (coupler) |
| 2   | Quick connect plug             |

## L HOSE L - 32.2 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 20'   |
| 1   | Diameter: 3/8" • Length: 23'   |
| 1   | Diameter: 3/8" • Length: 30'   |
| 1   | Diameter: 3/8" • Length: 33'   |
| 4   | #16 to #8 SAE Port adapters    |
| 4   | #20 to #8 SAE Port adapters    |
| 2   | Quick connect socket (coupler) |
| 2   | Quick connect plug             |

## X HOSE - 19.8 lb

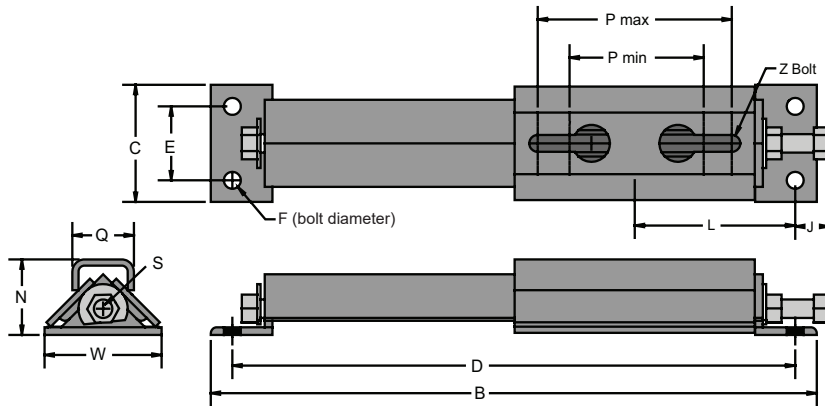
| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 3'    |
| 1   | Diameter: 3/8" • Length: 6'    |
| 1   | Diameter: 3/8" • Length: 12'   |
| 1   | Diameter: 3/8" • Length: 15'   |
| 4   | #16 to #8 SAE Port adapters    |
| 4   | #24 to #16 SAE Port adapters   |
| 2   | Quick connect socket (coupler) |
| 2   | Quick connect plug             |

## X HOSE L - 33.8 lb

| QTY | DESCRIPTION                    |
|-----|--------------------------------|
| 1   | Diameter: 3/8" • Length: 20'   |
| 1   | Diameter: 3/8" • Length: 23'   |
| 1   | Diameter: 3/8" • Length: 30'   |
| 1   | Diameter: 3/8" • Length: 33'   |
| 4   | #16 to #8 SAE Port adapters    |
| 4   | #24 to #16 SAE Port adapters   |
| 2   | Quick connect socket (coupler) |
| 2   | Quick connect plug             |



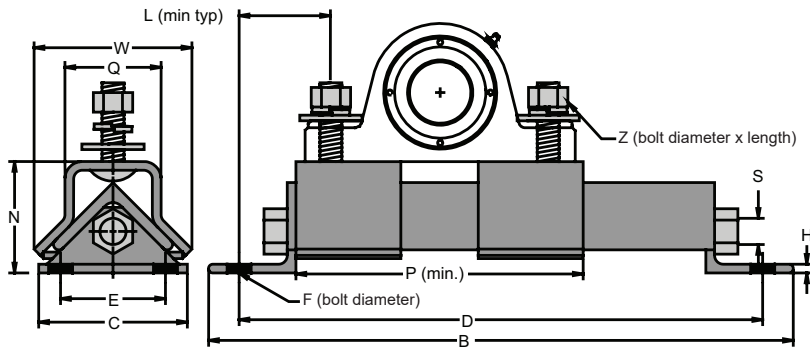
# PRECISION MEDIUM DUTY (PMD)



- Heavy duty 1-piece saddle design for 2-bolt pillow block bearings
  - Low profile design for tight applications
  - Uses standard 2-bolt pillow block bearings
  - Uses "carriage bolts" (Round head square neck bolts)(not included)
  - Stainless steel threaded rods are available
- \*Mounting bolts are NOT included

| Size   | Travel | Weight | B      | C     | D      | E     | F Bolt Dia | J    | L     | N     | P     |        | Q    | S Rod Dia | W    | Z Bolt Dia x Length |
|--------|--------|--------|--------|-------|--------|-------|------------|------|-------|-------|-------|--------|------|-----------|------|---------------------|
|        |        |        |        |       |        |       |            |      |       |       | min   | max    |      |           |      |                     |
| PMD100 | 6      | 14     | 19 1/2 | 3 3/4 | 18     | 2 1/2 | 3/8        | 13/4 | 47/16 | 23/4  | 27/8  | 41/4   | 21/8 | 3/4       | 33/4 | 3/8 x 1-1/2         |
|        | 9      | 15     | 22     |       | 20 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 12     | 16     | 25     |       | 23 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 18     | 19     | 33 1/2 |       | 32     |       |            |      |       |       |       |        |      |           |      |                     |
| PMD108 | 6      | 15     | 19 1/2 | 3 3/4 | 18     | 2 1/2 | 3/8        | 13/4 | 51/4  | 23/4  | 47/16 | 6      | 23/8 | 3/4       | 33/4 | 1/2 x 2-1/2         |
|        | 9      | 16     | 22     |       | 20 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 12     | 17     | 25     |       | 23 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 18     | 20     | 33 1/2 |       | 32     |       |            |      |       |       |       |        |      |           |      |                     |
|        | 24     | 23     | 39 1/2 |       | 38     |       |            |      |       |       |       |        |      |           |      |                     |
| PMD200 | 6      | 18     | 22 1/4 | 3 3/4 | 20 3/4 | 2 1/2 | 1/2        | 13/4 | 51/2  | 23/4  | 53/4  | 7      | 21/2 | 3/4       | 4    | 5/8 x 3             |
|        | 12     | 20     | 28 1/4 |       | 26 3/4 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 18     | 23     | 34 1/4 |       | 32 3/4 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 24     | 26     | 40 1/4 |       | 38 3/4 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 30     | 29     | 46 1/4 |       | 44 3/4 |       |            |      |       |       |       |        |      |           |      |                     |
| PMD208 | 6      | 24     | 22 1/4 | 4 3/4 | 20 1/2 | 3     | 5/8        | 17/8 | 67/8  | 33/16 | 53/4  | 71/2   | 27/8 | 3/4       | 41/2 | 5/8 x 3             |
|        | 12     | 27     | 28 1/4 |       | 26 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 18     | 30     | 34 1/4 |       | 32 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 24     | 33     | 40 1/4 |       | 38 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 30     | 37     | 46 1/4 |       | 44 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 36     | 40     | 52 1/4 |       | 50 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        |        |        |        |       |        |       |            |      |       |       |       |        |      |           |      |                     |
| PMD300 | 12     | 57     | 33 1/4 | 5     | 31 1/2 | 3     | 3/4        | 21/4 | 83/8  | 41/8  | 75/16 | 111/16 | 33/4 | 1         | 53/8 | 3/4 x 3-1/2         |
|        | 18     | 63     | 39 1/4 |       | 37 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 24     | 69     | 45 1/4 |       | 43 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 30     | 75     | 51 1/4 |       | 49 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 36     | 81     | 57 1/4 |       | 55 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 42     | 87     | 63 1/4 |       | 61 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 48     | 93     | 69 1/4 |       | 67 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
| PMD308 | 12     | 61     | 33 1/4 | 5     | 31 1/2 | 3     | 3/4        | 21/4 | 91/4  | 41/8  | 73/16 | 111/16 | 43/8 | 1         | 53/8 | 7/8 x 4             |
|        | 18     | 67     | 39 1/4 |       | 37 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 24     | 73     | 45 1/4 |       | 43 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 30     | 79     | 51 1/4 |       | 49 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 36     | 85     | 57 1/4 |       | 55 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 42     | 91     | 63 1/4 |       | 61 1/2 |       |            |      |       |       |       |        |      |           |      |                     |
|        | 48     | 97     | 69 1/4 |       | 67 1/2 |       |            |      |       |       |       |        |      |           |      |                     |

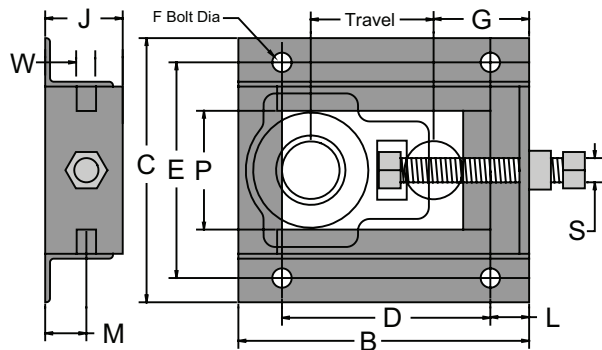
## PRECISION LIGHT DUTY (PLD)



- Two-piece saddle design for 2-bolt, 1-piece pillow blocks (ball, tapered or spherical)
- Extra wide saddle halves for extra strength
- Pillow block mounting bolts included
- Uses standard 2-bolt pillow block bearings
- Stainless steel threaded rods are available

| Size   | Travel | Weight | B      | C     | D      | E     | F Bolt Dia | H    | L     | N      | P | Q     | S Rod Dia | W     | Z Bolt Dia x Length |
|--------|--------|--------|--------|-------|--------|-------|------------|------|-------|--------|---|-------|-----------|-------|---------------------|
| PLD100 | 6      | 11     | 19 1/2 | 3 1/2 | 18     | 2 1/2 | 1/2        | 3/16 | 2     | 2 3/4  | 5 | 2 1/4 | 3/4       | 4     | 3/8 x 1-1/2         |
|        | 9      | 12     | 22     |       | 20 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 12     | 13     | 25     |       | 23 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 18     | 16     | 33 1/2 |       | 32     |       |            |      |       |        |   |       |           |       |                     |
| PLD108 | 6      | 11     | 19 1/2 | 3 1/2 | 18     | 2 1/2 | 1/2        | 3/16 | 2     | 2 3/4  | 5 | 2 1/4 | 3/4       | 4     | 1/2 x 2-1/2         |
|        | 9      | 12     | 22     |       | 20 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 12     | 13     | 25     |       | 23 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 18     | 16     | 33 1/2 |       | 32     |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 19     | 39 1/2 |       | 38     |       |            |      |       |        |   |       |           |       |                     |
| PLD200 | 6      | 12     | 22 1/4 | 3 1/2 | 20 3/4 | 2 1/2 | 1/2        | 3/16 | 2     | 2 3/4  | 5 | 2 1/4 | 3/4       | 4     | 5/8 x 3             |
|        | 12     | 15     | 28 1/4 |       | 26 3/4 |       |            |      |       |        |   |       |           |       |                     |
|        | 18     | 17     | 34 1/4 |       | 32 3/4 |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 19     | 40 1/4 |       | 38 3/4 |       |            |      |       |        |   |       |           |       |                     |
|        | 30     | 22     | 46 1/4 |       | 44 3/4 |       |            |      |       |        |   |       |           |       |                     |
| PLD208 | 6      | 17     | 22 1/4 | 4 1/4 | 20 1/2 | 3     | 5/8        | 1/4  | 2 5/8 | 3 3/16 | 6 | 2 3/4 | 3/4       | 4 1/2 | 5/8 x 3             |
|        | 12     | 21     | 28 1/4 |       | 26 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 18     | 24     | 34 1/4 |       | 32 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 27     | 40 1/4 |       | 38 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 30     | 30     | 46 1/4 |       | 44 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 36     | 34     | 52 1/4 |       | 50 1/2 |       |            |      |       |        |   |       |           |       |                     |
| PLD300 | 12     | 37     | 33 1/4 | 5     | 31 1/2 | 3     | 3/4        | 5/16 | 2 7/8 | 4 1/8  | 7 | 3 1/2 | 1         | 5 1/2 | 3/4 x 3-1/2         |
|        | 18     | 42     | 39 1/4 |       | 37 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 47     | 45 1/4 |       | 43 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 30     | 52     | 51 1/4 |       | 49 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 36     | 57     | 57 1/4 |       | 55 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 42     | 62     | 63 1/4 |       | 61 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 48     | 67     | 69 1/4 |       | 67 1/2 |       |            |      |       |        |   |       |           |       |                     |
| PLD308 | 12     | 38     | 33 1/4 | 5     | 31 1/2 | 3     | 3/4        | 5/16 | 2 7/8 | 4 1/8  | 7 | 3 1/2 | 1         | 5 1/2 | 7/8 x 4             |
|        | 18     | 43     | 39 1/4 |       | 37 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 24     | 48     | 45 1/4 |       | 43 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 30     | 53     | 51 1/4 |       | 49 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 36     | 58     | 57 1/4 |       | 55 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 42     | 63     | 63 1/4 |       | 61 1/2 |       |            |      |       |        |   |       |           |       |                     |
|        | 48     | 68     | 69 1/4 |       | 67 1/2 |       |            |      |       |        |   |       |           |       |                     |

# PRECISION WIDE SLOT (PWS)

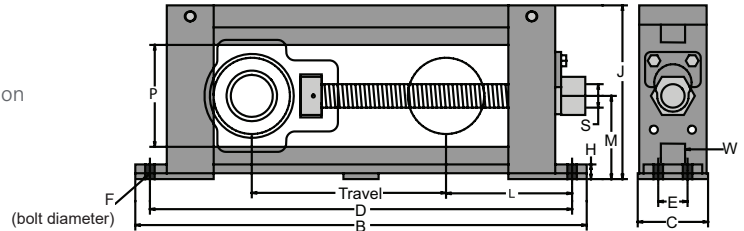


- Compact design for tight installations
- Side mount
- Use wide slot ball bearings
- In-line frame; rod force is at the center line of the bearing
- Stainless steel threaded rods are available

| Size   | Travel | Wt. | B      | C        | D        | E        | F Bolt Dia | # of Bolts | G       | J     | L     | M      | P      | S Rod Dia | W Bar Width |
|--------|--------|-----|--------|----------|----------|----------|------------|------------|---------|-------|-------|--------|--------|-----------|-------------|
| PWS100 | 1 1/2  | 6   | 7 1/2  | 7 5/16   | 5 3/8    | 5 9/16   | 7/16       | 4          | 2 15/16 | 2     | 1     | 1 1/16 | 3 1/16 | 5/8       | 7/16        |
|        | 3      | 7   | 9      |          | 6 7/8    |          |            | 4          |         |       |       |        |        |           |             |
|        | 6      | 8   | 12     |          | 4 15/16  |          |            | 6          |         |       |       |        |        |           |             |
|        | 9      | 10  | 15     |          | 6 7/16   |          |            | 6          |         |       |       |        |        |           |             |
|        | 12     | 12  | 18     |          | 7 15/16  |          |            | 6          |         |       |       |        |        |           |             |
| PWS108 | 3      | 7   | 9 1/8  | 7 13/16  | 6 7/16   | 6 1/16   | 7/16       | 4          | 3 11/16 | 2     | 1     | 1 1/4  | 3 9/16 | 3/4       | 7/16        |
|        | 6      | 9   | 12 1/8 |          | 9 7/16   |          |            | 4          |         |       |       |        |        |           |             |
|        | 9      | 11  | 15 1/8 |          | 6 7/32   |          |            | 6          |         |       |       |        |        |           |             |
|        | 12     | 13  | 18 1/8 |          | 7 23/32  |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 17  | 24 1/8 |          | 10 23/32 |          |            | 6          |         |       |       |        |        |           |             |
| PWS200 | 3      | 11  | 10 3/4 | 8 9/16   | 8 1/2    | 7 5/16   | 1/2        | 4          | 4 5/16  | 2 1/2 | 1 1/8 | 1 7/16 | 4 1/16 | 1         | 5/8         |
|        | 6      | 13  | 13 3/4 |          | 11 1/2   |          |            | 4          |         |       |       |        |        |           |             |
|        | 9      | 16  | 16 3/4 |          | 7 1/4    |          |            | 6          |         |       |       |        |        |           |             |
|        | 12     | 18  | 19 3/4 |          | 8 3/4    |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 23  | 25 3/4 |          | 11 3/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 24     | 29  | 31 3/4 |          | 14 3/4   |          |            | 6          |         |       |       |        |        |           |             |
| PWS208 | 3      | 18  | 11 3/4 | 10 11/16 | 9 1/2    | 8 5/8    | 9/16       | 4          | 5 11/16 | 3     | 1 1/8 | 1 1/2  | 5 3/16 | 1 1/4     | 1           |
|        | 6      | 22  | 14 3/4 |          | 12 1/2   |          |            | 4          |         |       |       |        |        |           |             |
|        | 9      | 26  | 17 3/4 |          | 15 1/2   |          |            | 4          |         |       |       |        |        |           |             |
|        | 12     | 29  | 20 3/4 |          | 9 1/4    |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 37  | 26 3/4 |          | 12 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 24     | 45  | 32 3/4 |          | 15 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 30     | 52  | 38 3/4 |          | 18 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        |        |     |        |          |          |          |            |            |         |       |       |        |        |           |             |
| PWS300 | 9      | 41  | 20 7/8 | 12       | 17 1/2   | 10 1/4   | 5/8        | 4          | 6 1/2   | 3 1/2 | 2 1/2 | 2      | 6      | 1 1/2     | 1           |
|        | 12     | 46  | 23 7/8 |          | 10 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 57  | 29 7/8 |          | 13 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 24     | 67  | 35 7/8 |          | 16 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 30     | 78  | 41 7/8 |          | 19 1/4   |          |            | 6          |         |       |       |        |        |           |             |
| PWS308 | 9      | 42  | 20 7/8 | 12 9/16  | 17 1/2   | 10 13/16 | 5/8        | 4          | 6 1/2   | 3 1/2 | 2 1/2 | 2      | 6 9/16 | 1 1/2     | 1           |
|        | 12     | 47  | 23 7/8 |          | 10 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 18     | 57  | 29 7/8 |          | 13 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 24     | 68  | 35 7/8 |          | 16 1/4   |          |            | 6          |         |       |       |        |        |           |             |
|        | 30     | 78  | 41 7/8 |          | 19 1/4   |          |            | 6          |         |       |       |        |        |           |             |

# PRECISION CENTER PULL (PCP)

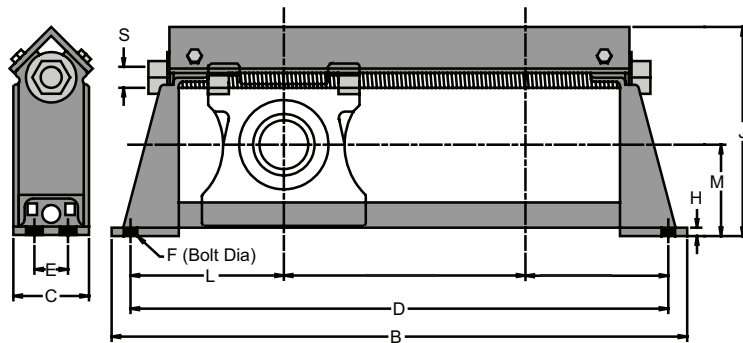
- Symmetrical foot mounted frame; pull or install from either direction
- In-line frame; rod force is at the center line of the bearing
- Can be retro-fitted to a standard hydraulic cylinder (NFPA #MF1)
- Stainless steel threaded rods are available



| Size               | Travel | Wt. | B      | C  | D      | E     | F Bolt Dia | H      | J        | L        | M       | P       | S Rod Dia       | Actual Travel | W Bar Width |
|--------------------|--------|-----|--------|----|--------|-------|------------|--------|----------|----------|---------|---------|-----------------|---------------|-------------|
| PCP108             | 12     | 28  | 28     | 3  | 26     | N/A   | 1/2        | 1      | 6 7/8    | 5 1/8    | 3 7/16  | 3 9/16  | 3/4             | 16 1/8        | 7/16        |
|                    | 18     | 32  | 34     |    | 32     |       |            |        |          |          |         |         |                 | 22 1/8        |             |
|                    | 24     | 37  | 40     |    | 38     |       |            |        |          |          |         |         |                 | 28 1/8        |             |
|                    | 30     | 41  | 46     |    | 44     |       |            |        |          |          |         |         |                 | 34 1/8        |             |
|                    | 36     | 46  | 52     |    | 50     |       |            |        |          |          |         |         |                 | 40 1/8        |             |
| PCP200             | 12     | 51  | 29 1/2 | 4  | 27 1/2 | N/A   | 5/8        | 1 1/8  | 8 1/4    | 6 1/16   | 3 15/16 | 4 1/16  | 1               | 15 13/16      | 5/8         |
|                    | 18     | 59  | 35 1/2 |    | 33 1/2 |       |            |        |          |          |         |         |                 | 21 13/16      |             |
|                    | 24     | 67  | 41 1/2 |    | 39 1/2 |       |            |        |          |          |         |         |                 | 27 13/16      |             |
|                    | 30     | 75  | 47 1/2 |    | 45 1/2 |       |            |        |          |          |         |         |                 | 33 13/16      |             |
|                    | 36     | 83  | 53 1/2 |    | 51 1/2 |       |            |        |          |          |         |         |                 | 39 13/16      |             |
| PCP203             | 12     | 57  | 29 1/2 | 4  | 27 1/2 | N/A   | 5/8        | 1 1/8  | 9 1/4    | 6 11/16  | 4 7/16  | 4 9/16  | 1 1/8           | 15 1/16       | 3/4         |
|                    | 18     | 66  | 35 1/2 |    | 33 1/2 |       |            |        |          |          |         |         |                 | 21 1/16       |             |
|                    | 24     | 75  | 41 1/2 |    | 39 1/2 |       |            |        |          |          |         |         |                 | 27 1/16       |             |
|                    | 30     | 85  | 47 1/2 |    | 45 1/2 |       |            |        |          |          |         |         |                 | 33 1/16       |             |
|                    | 36     | 94  | 53 1/2 |    | 51 1/2 |       |            |        |          |          |         |         |                 | 39 1/16       |             |
| PCP208             | 12     | 61  | 30 1/2 | 4  | 28 1/2 | N/A   | 3/4        | 1 3/16 | 9 1/2    | 7 1/16   | 4 3/8   | 5 3/16  | 1 1/4           | 15 1/2        | 1           |
|                    | 18     | 71  | 36 1/2 |    | 34 1/2 |       |            |        |          |          |         |         |                 | 21 1/2        |             |
|                    | 24     | 82  | 42 1/2 |    | 40 1/2 |       |            |        |          |          |         |         |                 | 27 1/2        |             |
|                    | 30     | 92  | 48 1/2 |    | 46 1/2 |       |            |        |          |          |         |         |                 | 33 1/2        |             |
|                    | 36     | 103 | 54 1/2 |    | 52 1/2 |       |            |        |          |          |         |         |                 | 39 1/2        |             |
| PCP300             | 12     | 109 | 32 1/2 | 5  | 30 1/2 | 2     | 5/8        | 7/8    | 11 1/4   | 7 13/16  | 5 1/8   | 6       | 1 1/2           | 16 1/16       | 1 3/4       |
|                    | 18     | 126 | 38 1/2 |    | 36 1/2 |       |            |        |          |          |         |         |                 | 22 1/16       |             |
|                    | 24     | 144 | 44 1/2 |    | 42 1/2 |       |            |        |          |          |         |         |                 | 28 1/16       |             |
|                    | 30     | 161 | 50 1/2 |    | 48 1/2 |       |            |        |          |          |         |         |                 | 34 1/16       |             |
|                    | 36     | 178 | 56 1/2 |    | 54 1/2 |       |            |        |          |          |         |         |                 | 40 1/16       |             |
| PCP308             | 12     | 122 | 34 1/4 | 5  | 32     | 2     | 3/4        | 1      | 12 1/8   | 8 9/16   | 5 5/8   | 6 7/8   | 1 3/4           | 16 5/16       | 1 3/4       |
|                    | 18     | 141 | 40 1/4 |    | 38     |       |            |        |          |          |         |         |                 | 22 5/16       |             |
|                    | 24     | 159 | 46 1/4 |    | 44     |       |            |        |          |          |         |         |                 | 28 5/16       |             |
|                    | 30     | 178 | 52 1/4 |    | 50     |       |            |        |          |          |         |         |                 | 34 5/16       |             |
|                    | 36     | 196 | 58 1/4 |    | 56     |       |            |        |          |          |         |         |                 | 40 5/16       |             |
| PCP400<br>PCP400LB | 12     | 198 | 38 1/2 | 6  | 36     | 2 1/2 | 3/4        | 1 1/4  | 14 13/16 | 10 3/4   | 7       | 8 11/16 | 2<br>(1 3/4 LB) | 16 9/16       | 2           |
|                    | 18     | 224 | 44 1/2 |    | 42     |       |            |        |          |          |         |         |                 | 22 9/16       |             |
|                    | 24     | 250 | 50 1/2 |    | 48     |       |            |        |          |          |         |         |                 | 28 9/16       |             |
|                    | 30     | 276 | 56 1/2 |    | 54     |       |            |        |          |          |         |         |                 | 34 9/16       |             |
|                    | 36     | 303 | 62 1/2 |    | 60     |       |            |        |          |          |         |         |                 | 40 9/16       |             |
| PCP408             | 12     | 294 | 45 3/4 | 9  | 40 3/4 | 5     | 1 1/8      | 1 1/4  | 16 1/16  | 11 15/16 | 7 1/2   | 9 9/16  | 2               | 18 13/16      | 2           |
|                    | 18     | 326 | 51 3/4 |    | 46 3/4 |       |            |        |          |          |         |         |                 | 24 13/16      |             |
|                    | 24     | 358 | 57 3/4 |    | 52 3/4 |       |            |        |          |          |         |         |                 | 30 13/16      |             |
|                    | 30     | 389 | 63 3/4 |    | 58 3/4 |       |            |        |          |          |         |         |                 | 36 13/16      |             |
|                    | 36     | 421 | 69 3/4 |    | 64 3/4 |       |            |        |          |          |         |         |                 | 42 13/16      |             |
| PCP500             | 12     | 355 | 49 1/2 | 10 | 44 1/2 | 5 1/2 | 1 1/8      | 1 1/2  | 17 1/16  | 13 5/8   | 8 1/8   | 10 5/16 | 2 1/4           | 20            | 2           |
|                    | 18     | 388 | 55 1/2 |    | 50 1/2 |       |            |        |          |          |         |         |                 | 26            |             |
|                    | 24     | 421 | 61 1/2 |    | 56 1/2 |       |            |        |          |          |         |         |                 | 32            |             |
|                    | 30     | 453 | 67 1/2 |    | 62 1/2 |       |            |        |          |          |         |         |                 | 38            |             |
|                    | 36     | 486 | 73 1/2 |    | 68 1/2 |       |            |        |          |          |         |         |                 | 44            |             |



# PRECISION PROTECTED ANGLE (PPA)

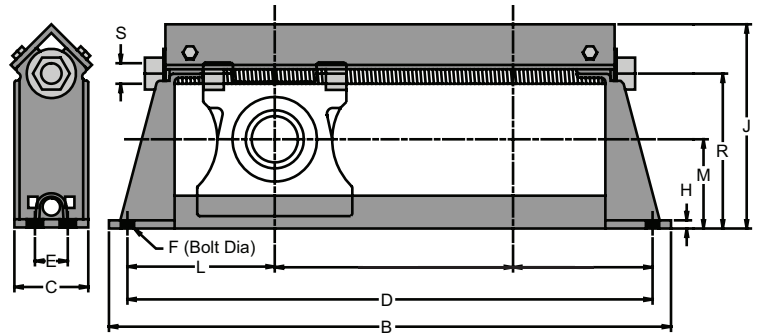


- Protected Top Angle Take-Up Frame
- Fits channel bottom housings (SFK & Linkbelt)
- Frame can be disassembled and reassembled around housing
- Stainless steel threaded rods are available

| Size   | Travel | Wt. | B      | C     | D      | E     | F Bolt Dia | H   | J        | L       | M       | S Rod Dia | Actual Travel |
|--------|--------|-----|--------|-------|--------|-------|------------|-----|----------|---------|---------|-----------|---------------|
| PPA200 | 12     | 28  | 28 1/2 | 3 1/2 | 26 1/2 | N/A   | 5/8        | 1/2 | 8 1/2    | 6 1/4   | 3 15/16 | 3/4       | 14            |
|        | 18     | 34  | 34 1/2 |       | 32 1/2 |       |            |     |          |         |         |           | 20            |
|        | 24     | 39  | 40 1/2 |       | 38 1/2 |       |            |     |          |         |         |           | 26            |
| PPA203 | 12     | 34  | 29 1/2 | 3 1/2 | 27 1/2 | N/A   | 5/8        | 1/2 | 9 1/8    | 6 5/8   | 4 3/16  | 3/4       | 14 1/4        |
|        | 18     | 41  | 35 1/2 |       | 33 1/2 |       |            |     |          |         |         |           | 20 1/4        |
|        | 24     | 47  | 41 1/2 |       | 39 1/2 |       |            |     |          |         |         |           | 26 1/4        |
| PPA208 | 12     | 44  | 30 1/2 | 4     | 28 1/2 | N/A   | 3/4        | 1/2 | 10       | 7 1/4   | 4 3/8   | 7/8       | 14            |
|        | 18     | 53  | 36 1/2 |       | 34 1/2 |       |            |     |          |         |         |           | 20            |
|        | 24     | 61  | 42 1/2 |       | 40 1/2 |       |            |     |          |         |         |           | 26            |
|        | 30     | 70  | 48 1/2 |       | 46 1/2 |       |            |     |          |         |         |           | 32            |
|        | 36     | 78  | 54 1/2 |       | 52 1/2 |       |            |     |          |         |         |           | 38            |
| PPA300 | 12     | 52  | 32 1/2 | 4 1/2 | 30 1/2 | 2     | 5/8        | 1/2 | 11       | 7 3/4   | 5 1/8   | 1         | 15            |
|        | 18     | 61  | 38 1/2 |       | 36 1/2 |       |            |     |          |         |         |           | 21            |
|        | 24     | 70  | 44 1/2 |       | 42 1/2 |       |            |     |          |         |         |           | 27            |
|        | 30     | 80  | 50 1/2 |       | 48 1/2 |       |            |     |          |         |         |           | 33            |
|        | 36     | 88  | 56 1/2 |       | 54 1/2 |       |            |     |          |         |         |           | 39            |
| PPA308 | 12     | 66  | 34 1/4 | 4 1/2 | 32     | 2     | 3/4        | 1/2 | 12 3/8   | 8 15/16 | 5 5/8   | 1 1/8     | 15            |
|        | 18     | 78  | 40 1/4 |       | 38     |       |            |     |          |         |         |           | 21            |
|        | 24     | 89  | 46 1/4 |       | 44     |       |            |     |          |         |         |           | 27            |
|        | 30     | 100 | 52 1/4 |       | 50     |       |            |     |          |         |         |           | 33            |
|        | 36     | 111 | 58 1/4 |       | 56     |       |            |     |          |         |         |           | 39            |
|        | 42     | 121 | 64 1/4 |       | 62     |       |            |     |          |         |         |           | 45            |
|        | 48     | 131 | 70 1/4 |       | 68     |       |            |     |          |         |         |           | 51            |
|        |        |     |        |       |        |       |            |     |          |         |         |           |               |
| PPA400 | 12     | 90  | 38 1/2 | 5 1/2 | 36     | 2 1/2 | 3/4        | 3/4 | 14 11/16 | 10 3/8  | 7       | 1 1/4     | 15 1/4        |
|        | 18     | 103 | 44 1/2 |       | 42     |       |            |     |          |         |         |           | 21 1/4        |
|        | 24     | 114 | 50 1/2 |       | 48     |       |            |     |          |         |         |           | 27 1/4        |
|        | 30     | 127 | 56 1/2 |       | 54     |       |            |     |          |         |         |           | 33 1/4        |
|        | 36     | 138 | 62 1/2 |       | 60     |       |            |     |          |         |         |           | 39 1/4        |
|        | 42     | 148 | 68 1/2 |       | 66     |       |            |     |          |         |         |           | 45 1/4        |
|        | 48     | 158 | 74 1/2 |       | 72     |       |            |     |          |         |         |           | 51 1/4        |
| PPA408 | 12     | 92  | 38 1/2 | 5 1/2 | 36     | 2 1/2 | 3/4        | 3/4 | 15 3/4   | 10 3/8  | 7 1/2   | 1 1/4     | 15 1/4        |
|        | 18     | 106 | 44 1/2 |       | 42     |       |            |     |          |         |         |           | 21 1/4        |
|        | 24     | 116 | 50 1/2 |       | 48     |       |            |     |          |         |         |           | 27 1/4        |
|        | 30     | 130 | 56 1/2 |       | 54     |       |            |     |          |         |         |           | 33 1/4        |
|        | 36     | 140 | 62 1/2 |       | 60     |       |            |     |          |         |         |           | 39 1/4        |
|        | 42     | 151 | 68 1/2 |       | 66     |       |            |     |          |         |         |           | 45 1/4        |
|        | 48     | 161 | 74 1/2 |       | 72     |       |            |     |          |         |         |           | 51 1/4        |
|        |        |     |        |       |        |       |            |     |          |         |         |           |               |

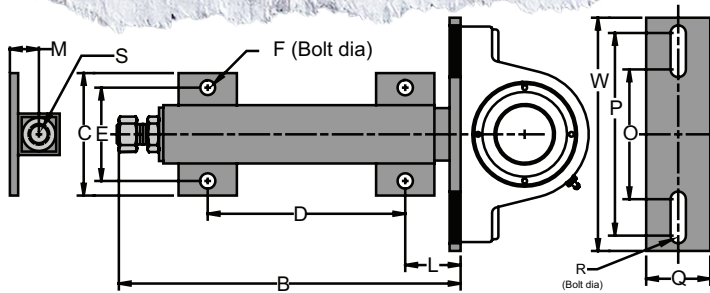
## PRECISION TOP ANGLE (PTA)

- Protected Top Angle Take-Up Frame
- Fits round bottom housings (Dodge & Linkbelt Type E)
- Frame can be disassembled and reassembled around housing
- Stainless steel threaded rods are available



| Size   | Travel | Wt. | B      | C     | D      | E     | F Bolt Dia | H   | J        | L       | M       | R      | S Rod Dia | Actual Travel |
|--------|--------|-----|--------|-------|--------|-------|------------|-----|----------|---------|---------|--------|-----------|---------------|
| PTA200 | 12     | 25  | 28 1/2 | 3 1/2 | 26 1/2 | N/A   | 5/8        | 1/2 | 8 1/2    | 6 1/4   | 3 15/16 | 6 1/4  | 3/4       | 14            |
|        | 18     | 28  | 34 1/2 |       | 32 1/2 |       |            |     |          |         |         |        |           | 20            |
|        | 24     | 32  | 40 1/2 |       | 38 1/2 |       |            |     |          |         |         |        |           | 26            |
| PTA203 | 12     | 26  | 29 1/2 | 3 1/2 | 27 1/2 | N/A   | 5/8        | 1/2 | 9 1/8    | 6 5/8   | 4 3/16  | 6 3/4  | 3/4       | 14 1/4        |
|        | 18     | 30  | 35 1/2 |       | 33 1/2 |       |            |     |          |         |         |        |           | 20 1/4        |
|        | 24     | 33  | 41 1/2 |       | 39 1/2 |       |            |     |          |         |         |        |           | 26 1/4        |
| PTA208 | 12     | 38  | 30 1/2 | 4     | 28 1/2 | N/A   | 3/4        | 1/2 | 10       | 7 1/4   | 4 3/8   | 7 3/8  | 1         | 14            |
|        | 18     | 44  | 36 1/2 |       | 34 1/2 |       |            |     |          |         |         |        |           | 20            |
|        | 24     | 50  | 42 1/2 |       | 40 1/2 |       |            |     |          |         |         |        |           | 26            |
|        | 30     | 56  | 48 1/2 |       | 46 1/2 |       |            |     |          |         |         |        |           | 32            |
|        | 36     | 62  | 54 1/2 |       | 52 1/2 |       |            |     |          |         |         |        |           | 38            |
| PTA300 | 12     | 45  | 32 1/2 | 4 1/2 | 30 1/2 | 2     | 5/8        | 1/2 | 11       | 7 3/4   | 4 15/16 | 8 3/8  | 1         | 15            |
|        | 18     | 51  | 38 1/2 |       | 36 1/2 |       |            |     |          |         |         |        |           | 21            |
|        | 24     | 58  | 44 1/2 |       | 42 1/2 |       |            |     |          |         |         |        |           | 27            |
|        | 30     | 65  | 50 1/2 |       | 48 1/2 |       |            |     |          |         |         |        |           | 33            |
|        | 36     | 71  | 56 1/2 |       | 54 1/2 |       |            |     |          |         |         |        |           | 39            |
| PTA308 | 12     | 57  | 34 1/4 | 4 1/2 | 32     | 2     | 3/4        | 1/2 | 12 3/8   | 8 15/16 | 5 7/16  | 9 1/4  | 1 1/4     | 15            |
|        | 18     | 64  | 40 1/4 |       | 38     |       |            |     |          |         |         |        |           | 21            |
|        | 24     | 71  | 46 1/4 |       | 44     |       |            |     |          |         |         |        |           | 27            |
|        | 30     | 79  | 52 1/4 |       | 50     |       |            |     |          |         |         |        |           | 33            |
|        | 36     | 86  | 58 1/4 |       | 56     |       |            |     |          |         |         |        |           | 39            |
|        | 42     | 93  | 64 1/4 |       | 62     |       |            |     |          |         |         |        |           | 45            |
|        | 48     | 100 | 70 1/4 |       | 68     |       |            |     |          |         |         |        |           | 51            |
| PTA400 | 12     | 88  | 38 1/2 | 5 1/2 | 36     | 2 1/2 | 3/4        | 3/4 | 14 11/16 | 10 3/8  | 7       | 11 1/4 | 1 1/4     | 15 1/4        |
|        | 18     | 98  | 44 1/2 |       | 42     |       |            |     |          |         |         |        |           | 21 1/4        |
|        | 24     | 107 | 50 1/2 |       | 48     |       |            |     |          |         |         |        |           | 27 1/4        |
|        | 30     | 118 | 56 1/2 |       | 54     |       |            |     |          |         |         |        |           | 33 1/4        |
|        | 36     | 127 | 62 1/2 |       | 60     |       |            |     |          |         |         |        |           | 39 1/4        |
|        | 42     | 137 | 68 1/2 |       | 66     |       |            |     |          |         |         |        |           | 45 1/4        |
|        | 48     | 146 | 74 1/2 |       | 72     |       |            |     |          |         |         |        |           | 51 1/4        |

# PRECISION SLIDE TUBE (PST)



- Slide tube design - Protects the screw from environment
- Side mount for unit ball & roller bearing pillow block bearings
- Standard grease zerk – fills the square tube to protect the screw
- In-line frame; rod force is at the center line of the bearing
- Pillow block mounting bolts are not included
- Stainless steel threaded rods are available

| Frame  | Travel | Weight | B      | C      | D      | E     | F Bolt Dia | L     | M     | O                | P                | Q     | R Bolt Dia       | S Rod Dia | W  | Slide Square Tube Size | Base Square Tube Size |
|--------|--------|--------|--------|--------|--------|-------|------------|-------|-------|------------------|------------------|-------|------------------|-----------|----|------------------------|-----------------------|
| PST250 | 3      | 6      | 97/8   | 4      | 4 3/8  | 3     | 1/2        | 2     | 11/8  | 3 1/16           | 5 15/16          | 2     | 5/8              | 3/4       | 7  | 11/2                   | 13/4                  |
|        | 6      | 8      | 12 7/8 |        | 7 3/8  |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 9      | 9      | 15 7/8 |        | 10 3/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 12     | 11     | 18 7/8 |        | 13 3/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 18     | 14     | 24 7/8 |        | 19 3/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
| PST300 | 6      | 15     | 15 5/8 | 5 1/4  | 6 1/8  | 4     | 5/8        | 2 1/4 | 11/2  | 5 9/16           | 8 11/16          | 2 3/4 | 3/4              | 1         | 10 | 2 1/4                  | 2 1/2                 |
|        | 9      | 17     | 18 5/8 |        | 10 1/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 12     | 20     | 21 5/8 |        | 14 1/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 18     | 24     | 27 5/8 |        | 21 1/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 24     | 29     | 33 5/8 |        | 27 1/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 30     | 34     | 39 5/8 |        | 33 1/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
| PST350 | 6      | 21     | 16 3/8 | 6      | 9 5/8  | 4 1/2 | 5/8        | 2 3/8 | 1 3/4 | 5 9/16           | 8 11/16          | 3     | 3/4              | 1         | 10 | 2 1/2                  | 3                     |
|        | 9      | 24     | 19 3/8 |        | 12 5/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 12     | 28     | 22 3/8 |        | 15 5/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 18     | 34     | 28 3/8 |        | 21 5/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 24     | 41     | 34 3/8 |        | 27 5/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 30     | 47     | 40 3/8 |        | 33 5/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 36     | 54     | 46 3/8 |        | 39 5/8 |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
| PST400 | 6      | 46     | 23 1/4 | 7 1/2  | 14     | 5 1/2 | 3/4        | 2 7/8 | 2 1/8 | 8 1/2            | 11 3/4           | 3 1/2 | 7/8              | 1 1/2     | 14 | 3                      | 3 1/2                 |
|        | 9      | 51     | 26 1/4 |        | 17     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 12     | 57     | 29 1/4 |        | 20     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 18     | 67     | 35 1/4 |        | 26     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 24     | 78     | 41 1/4 |        | 32     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 30     | 89     | 47 1/4 |        | 38     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 36     | 99     | 53 1/4 |        | 44     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 42     | 110    | 59 1/4 |        | 50     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 48     | 121    | 65 1/4 |        | 56     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
| PST500 | 12     | 199    | 37 3/4 | 11 1/2 | 25     | 9     | 1          | 3 3/4 | 3 1/2 | Drilled to Order | Drilled to Order | 7     | Drilled to Order | 2         | 20 | 5                      | 6                     |
|        | 18     | 230    | 43 3/4 |        | 31     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 24     | 261    | 49 3/4 |        | 37     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 30     | 292    | 55 3/4 |        | 43     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 36     | 323    | 61 3/4 |        | 49     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 42     | 354    | 67 3/4 |        | 55     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |
|        | 48     | 385    | 73 3/4 |        | 61     |       |            |       |       |                  |                  |       |                  |           |    |                        |                       |



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