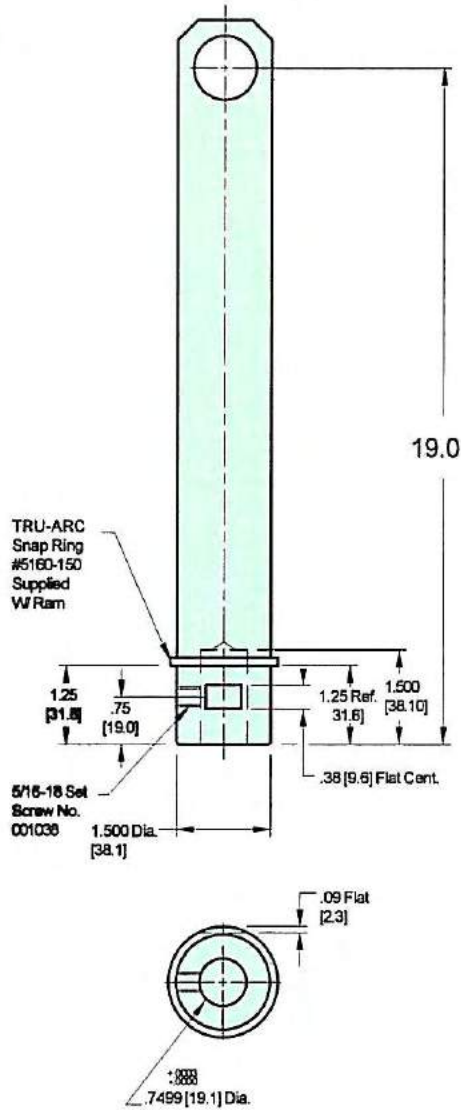


150 Series Rams For P4 & P8 Presses

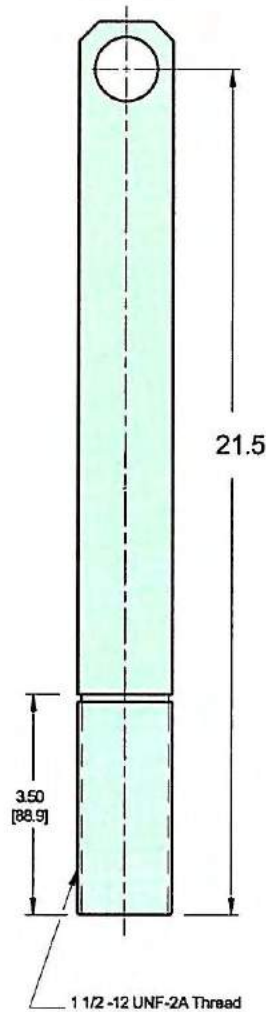


P-150



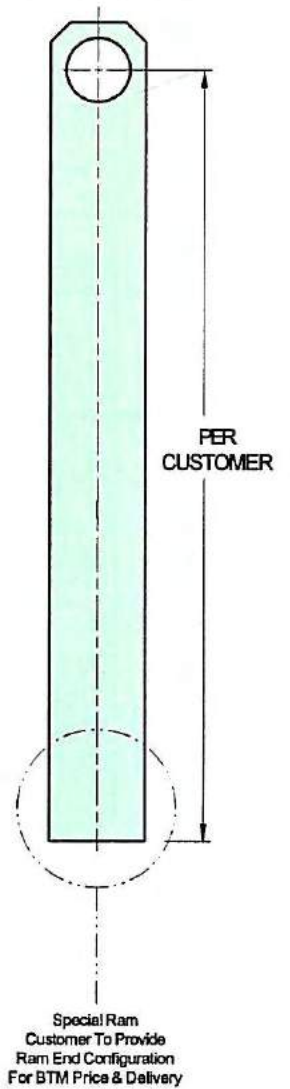
BTM No. 000276

TE-150



BTM No. 000285

S-150



TO BE
ASSIGNED

See Pages 21-23 For Options & Accessories

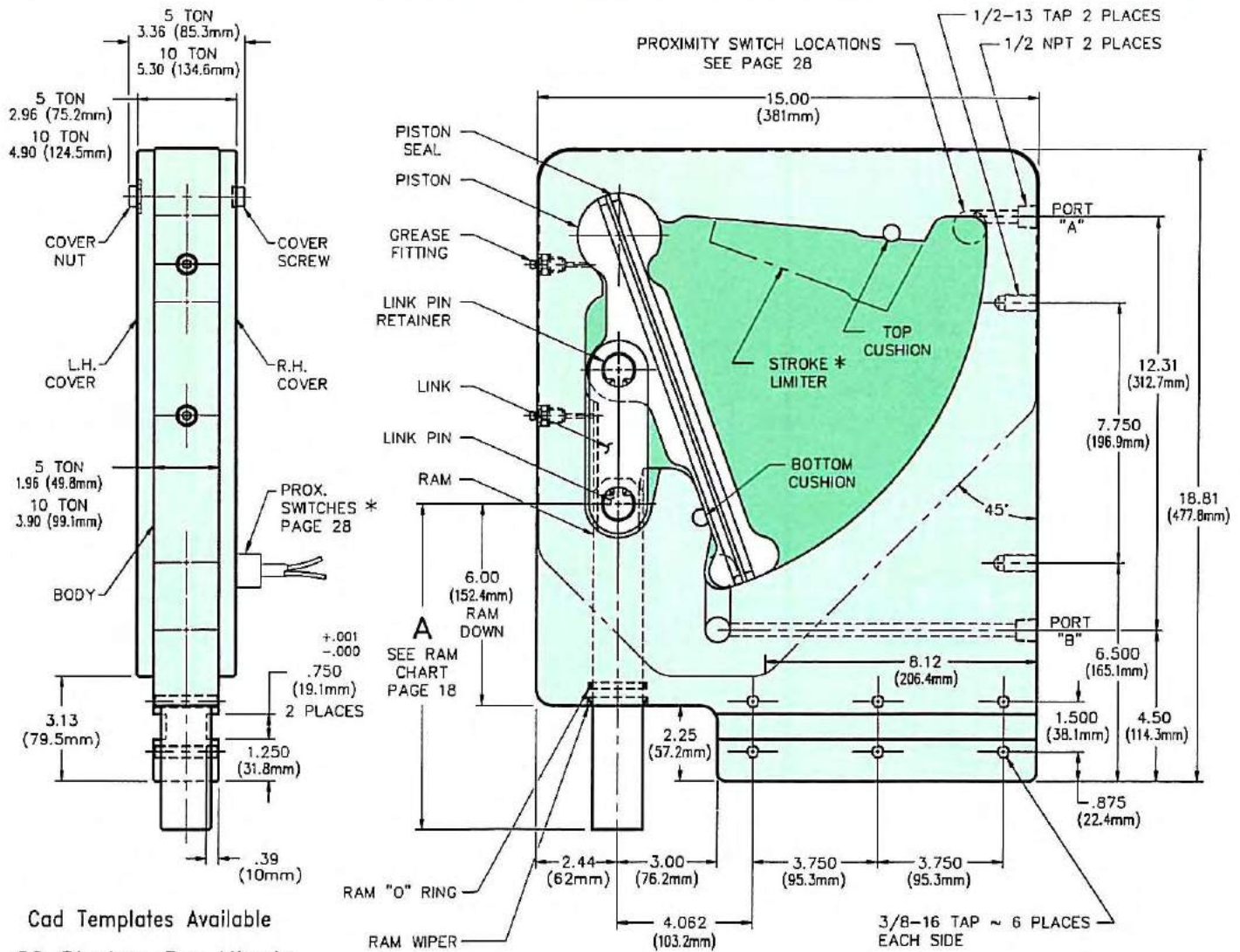
H Models (Head)

P5H x 3.00 (76.2mm) Stroke 001541 - 70 lbs. (32 kg)

P5H x 4.50 (114.3mm) Stroke 001542 - 70 lbs. (32 kg)

P10H x 3.00 (76.2mm) Stroke 001543 - 120 lbs. (55 kg)

P10H x 4.50 (114.3mm) Stroke 001544 - 120 lbs. (55 kg)



Cad Templates Available
60 Strokes Per Minute
(5 and 10 Ton Presses)

Components

P5H

Description	No. Req'd	BTM No.
P5H x 3.00 (76.2mm) Body	1	000247
P5H x 4.50 (114.3mm) Body	1	000248
Piston	1	000259
Piston Seal	2	000051
Link	1	000261
Link Pin	2	000264
Link Pin Retainer	2	000263
Ram - 150 Series	1	See Pg. 20
R.H. Cover	1	000266
L.H. Cover	1	000267
Cover Screw	15	000268
Cover Nut	15	000270
Ram Wiper	1	000272
Ram "O" Ring	2	000271
Grease Fitting	2	000050
Sealant - Cover	1	000273
Seal Kit	1	000804
Top Cushion	1	004315
Bottom Cushion	1	004315
Stroke Limiter *	1	000814

How to Order Presses

Quantity	Model	Stroke	Ram Style	Proximity Switches	Ram Latch	Strippers	Consider Tooling
6	P10H x 4.50	P175	EPRL	EPEL	RL	SS-4	TOOLING
		3.00, 4.50 or Special	See Page 18	See Page 28	See Page 19	See Page 19	See Page 19

How to Order Components

Qty.	P5 Piston	000259
	Description	BTM No.

* Denotes Options

Components

P10H

Description	No. Req'd	BTM No.
P10H x 3.00 (76.2mm) Body	1	000249
P10H x 4.50 (114.3mm) Body	1	000250
Piston	1	000260
Piston Seal	2	000060
Link	1	003203
Link Pin	2	000265
Link Pin Retainer	2	000263
Ram - 175 Series	1	See Pg. 20
R.H. Cover	1	000266
L.H. Cover	1	000267
Cover Screw	15	000269
Cover Nut	15	000270
Ram Wiper	1	006731
Ram "O" Ring	1	006732
Grease Fitting	2	000050
Sealant - Cover	1	000273
Seal Kit	1	000805
Top Cushion	1	004316
Bottom Cushion	1	004316
Stroke Limiter *	1	000815

5 & 10 Ton FM Presses

BTM

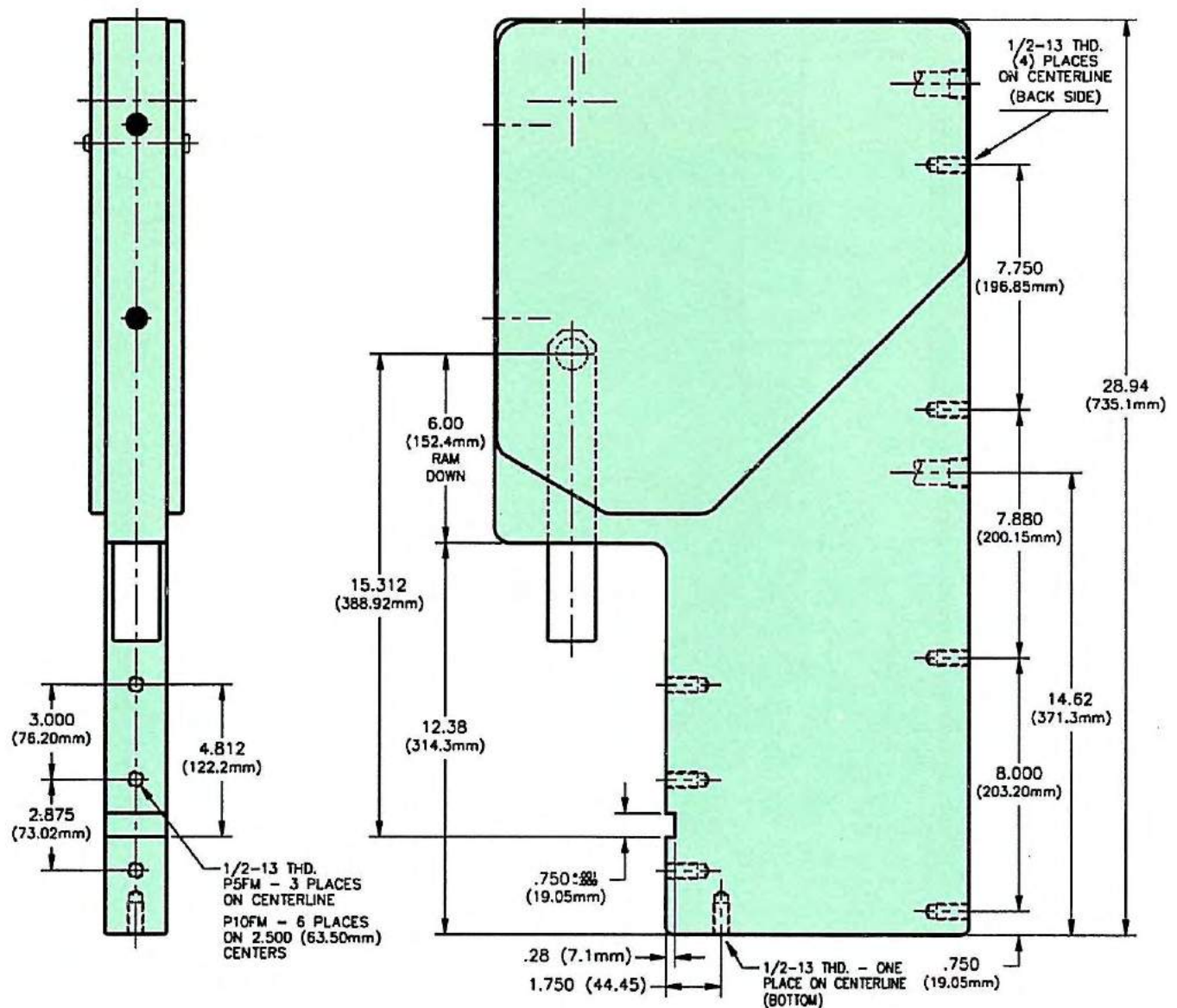
FM Models (Front Mount)

P5FM x 3.00 (76.2mm) Stroke 001549 - 90 lbs. (41 kg)

P10FM x 3.00 (76.2mm) Stroke 001551 - 155 lbs. (70 kg)

P5FM x 4.50 (114.3mm) Stroke 001550 - 90 lbs. (41 kg)

P10FM x 4.50 (114.3mm) Stroke 001552 - 155 lbs. (70 kg)



Components P5FM

Description	No. Req'd	BTM No.
P5FM x 3.00 (76.2mm) Body	1	000255
P5FM x 4.50 (114.3mm) Body	1	000256

Components P10FM

Description	No. Req'd	BTM No.
P10FM x 3.00 (76.2mm) Body	1	002571
P10FM x 4.50 (114.3mm) Body	1	003804

For components not shown,
see P5H & P10H on page 14.

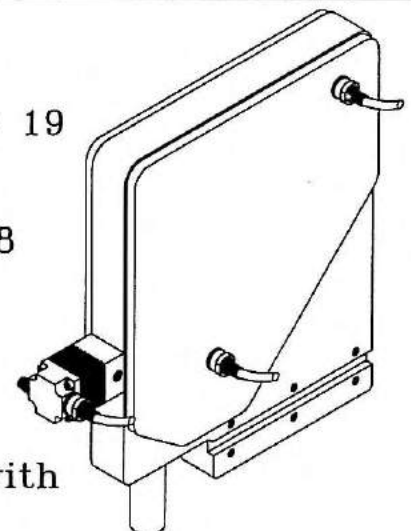
*Options

Ram Latch - See page 19

Electrical Proximity
Switches - See page 28

Stroke Limiter -
Limit upstroke to suit
your requirements.

Presses are available with
metric threads.



EU Models (Equalizing Unit)

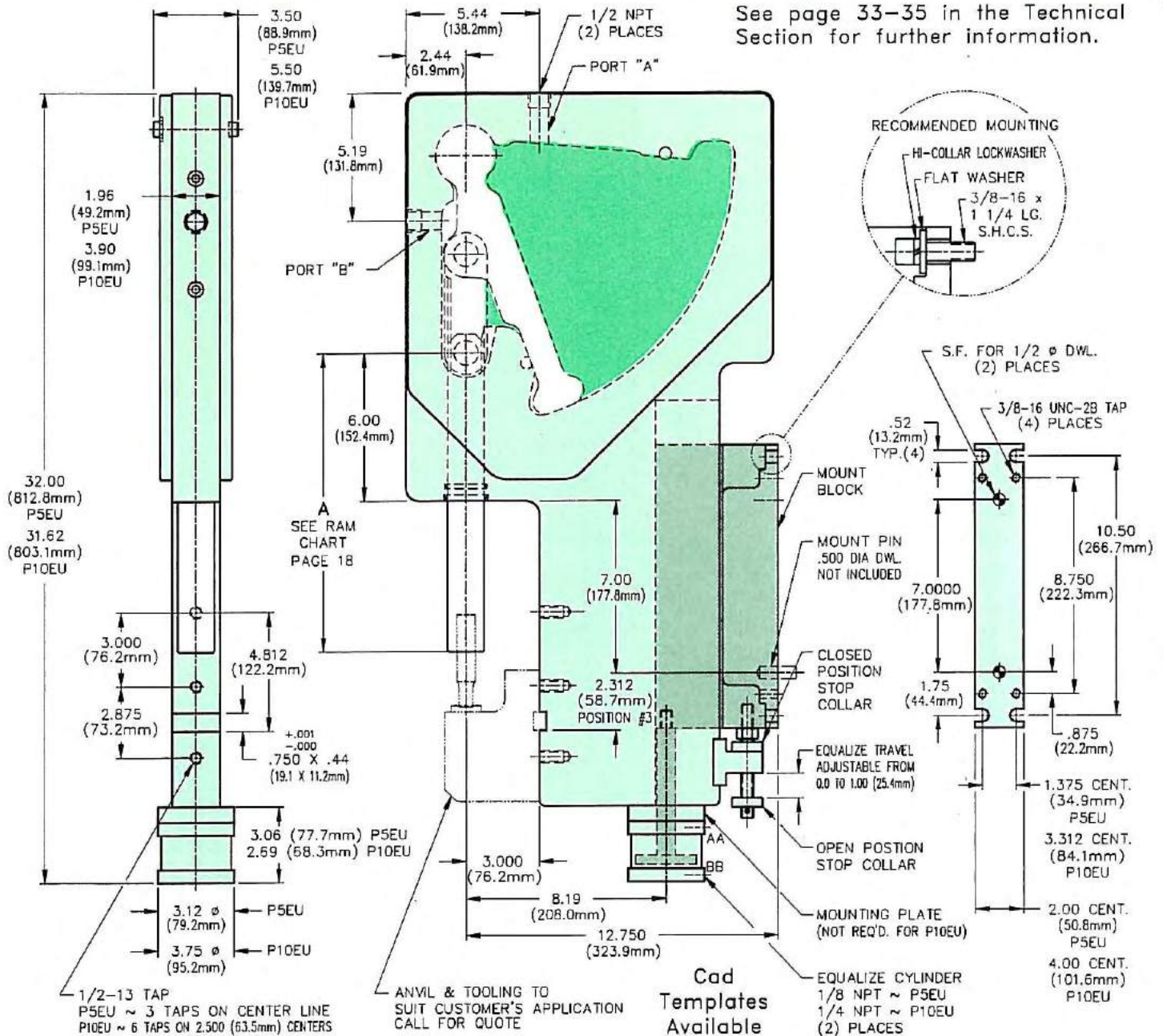
P5EU x 3.00 (76.2mm) Stroke 006761 - 125 lbs. (57 kg)

P5EU x 4.50 (114.3mm) Stroke 006762 - 125 lbs. (57 kg)

P10EU x 3.00 (76.2mm) Stroke 006736 - 215 lbs. (98 kg)

P10EU x 4.50 (114.3mm) Stroke 013201 - 215 lbs. (98 kg)

See page 33-35 in the Technical Section for further information.

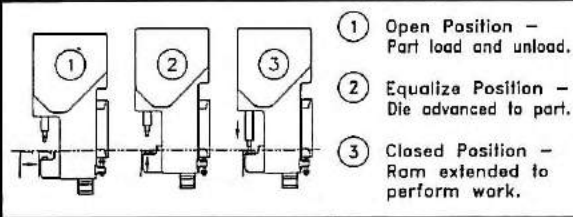


Cad
Templates
Available

Components

P5EU

Description	No. Req'd	BTM No.
P5EU x 3.00 (76.2mm) Body	1	013074
P5EU x 4.50 (114.3mm) Body	1	013075
Piston	1	000259
Piston Seal	2	000051
Link	1	000261
Link Pin	2	000264
Link Pin Retainer	2	000263
Ram - 150 Series	1	See Pg. 20
R.H. Cover	1	000266
L.H. Cover	1	000267
Cover Screw	15	000268
Cover Nut	15	000270
Sealant - Cover	1	000273
Ram Wiper Seal	1	000272
Ram "O" Ring	1	000271
Seal Kit	1	000804
Top Cushion	1	004315



Bottom Cushion	1	004315
Grease Fitting	2	000050
Mount Block	1	006773
Extension - Cylinder	1	013475
Cylinder Mount Plate	1	013191
Equalizing Air Cylinder	1	013192
Stop Collar	2	006162
Stop Block	1	006641
Stop Adjust Rod	1	006767
3/16 Dia. X 1/2 Roll Pin	1	013088
1/2 - 20 Hex Nut	1	013458

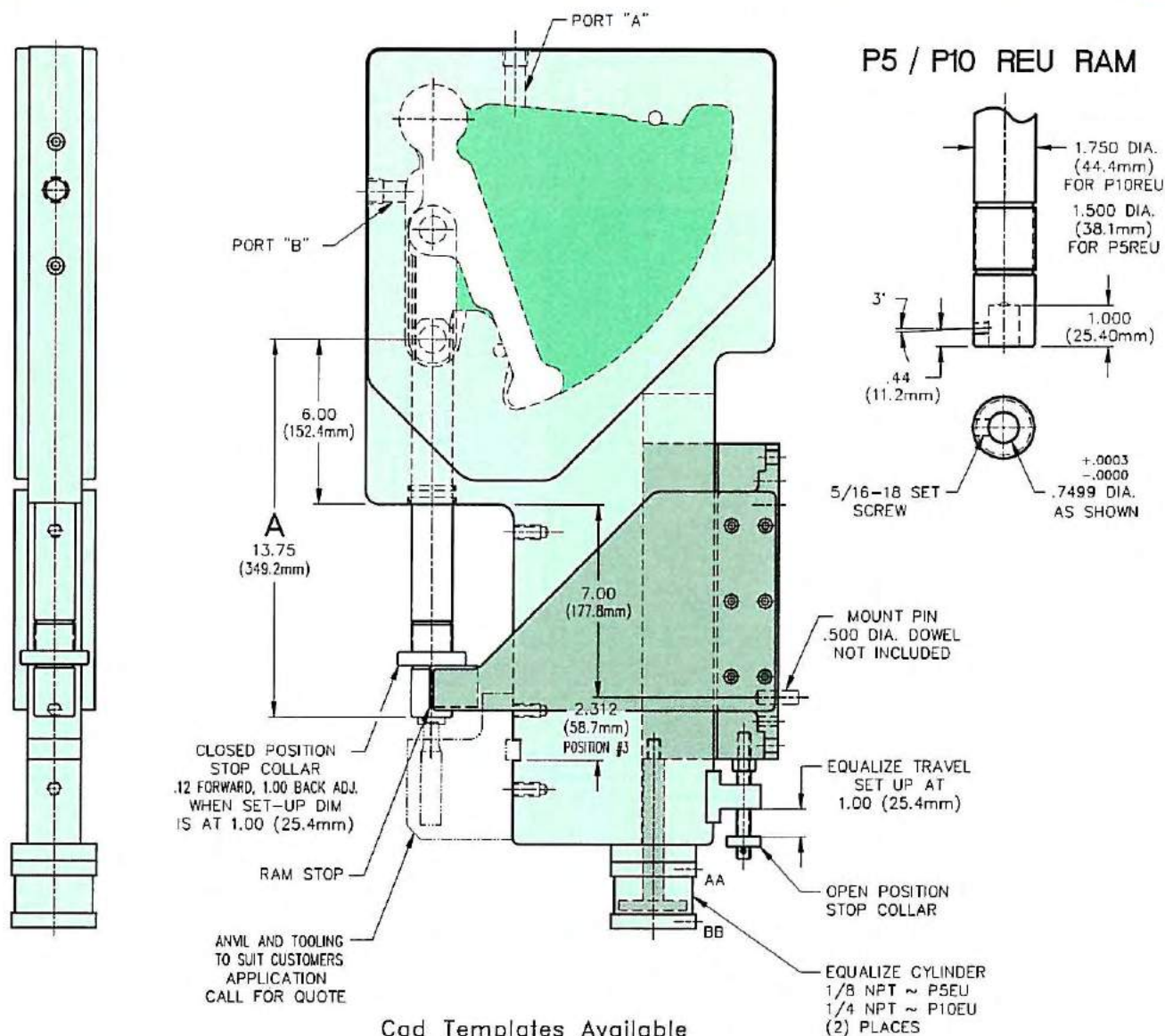
Components

P10EU

Description	No. Req'd	BTM No.
P10EU x 3.00 (76.2mm) Body	1	013195
P10EU x 4.50 (114.3mm) Body	1	013196
Piston	1	000260
Piston Seal	2	000060
Link	1	003203
Link Pin	2	000265
Ram - 175 Series	1	See Pg. 20
Cover Screw	15	000269
Ram Wiper Seal	1	006731
Ram "O" Ring	1	006732
Seal Kit	1	000805
Top Cushion	1	004316
Bottom Cushion	1	004316
Mount Block	1	006733
Extension - Cylinder	1	013190
Equalizing Air Cylinder	1	013197
Stop Block	1	006370

BTM

P5REU x 3.00 (76.2mm) Stroke 013200 - 135 lbs. (61 kg)
P10REU x 3.00 (76.2mm) Stroke 013202 - 225 lbs. (102 kg)



Cad Templates Available

- ## How to Order Presses

Quantity	6	P10REU x 3	REU175	EPRL	EPEL	RL	SS-4	TOOLING
Model								
Stroke								
		3, 4.5 or Special (EU)						
		3 or Special (REU)						
Ram Style								
		See Page 18 (EU)						
		See Components at Right (REU)						
				Proximity Switches See Page 28				
						Ram Latch See Page 19		
							Strippers See Page 19	
								Consider Tooling See Page 19

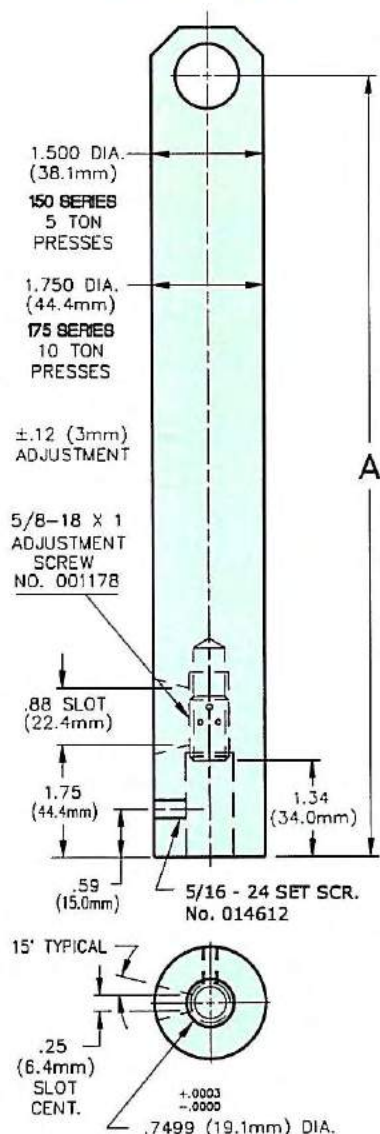
1 Qty.	Mount Block Description	006368 BTM No.
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See pages 33-35 in the Technical Section for further information.

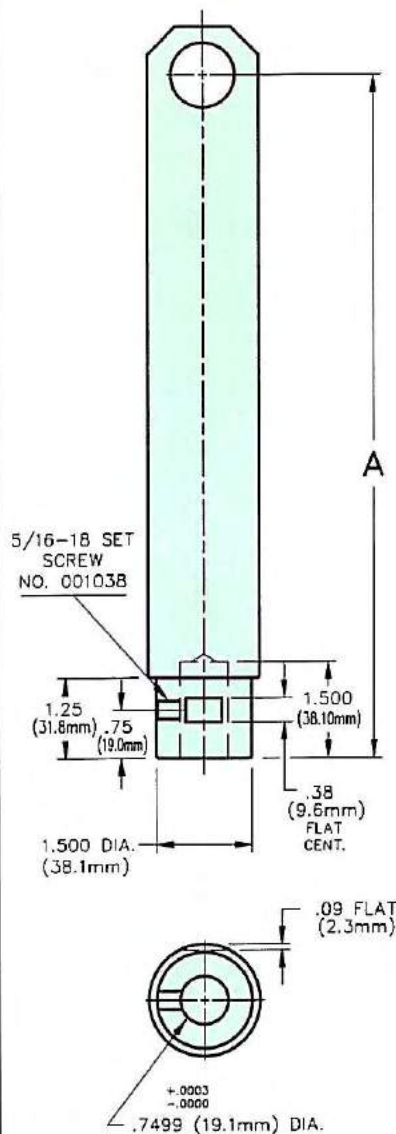
Description	No. Req'd	BTM No.
Ext. Rod	1	020633
PSREU Ram	1	013194
Mount Block	1	006368
Stop Collar (flashed Pos.)	1	013216
Ram Stop	1	006519
R.H. Equalize Side Plate	1	006366
L.H. Equalize Side Plate	1	006367
Key 3/8 x 3/8 x 3/4	2	007027
Key 1/2 x 1/2 x 8	2	007011
Air Cylinder	1	020632

Description	No. Req'd	BTM No.
PIOREU Ram	1	013198
Mount Block	1	013484
Stop Collar (Closed Pos.)	1	013216
Ram Stop	1	013199
R.H. Equalize Side Plate	1	006366
L.H. Equalize Side Plate	1	006367
Key 3/8 x 3/8 x 3/4	2	007027
Key 1/2 x 1/2 x 8	2	007011

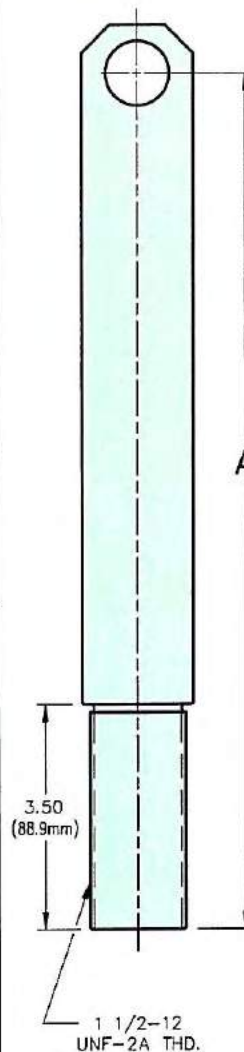
PA - 150
PA - 175



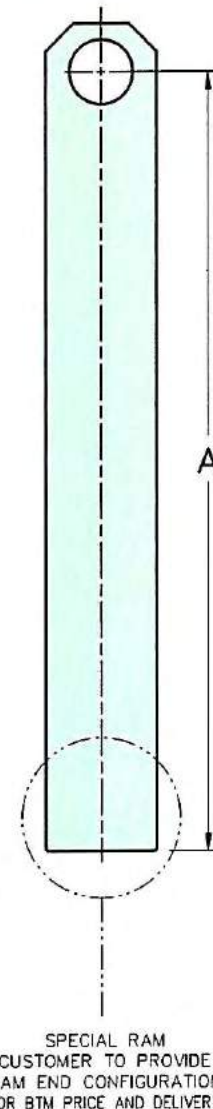
P - 150*
P - 175



TE - 150
TE - 175

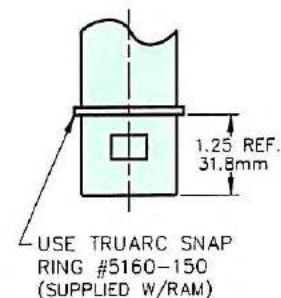


S - 150
S - 175



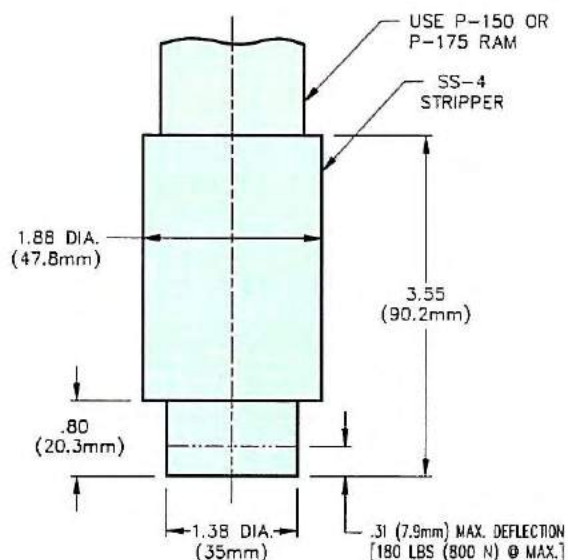
SERIES	PRESS MODEL	RAM STYLE	STROKE	A DIM.	BTM NO.
150 SERIES RAMS 5 TON PRESSES	H	PA	3.00 (76.2mm)	11.97 (304.0mm)	001177
			4.50 (114.3mm)	13.47 (342.1mm)	002773
	FM	P*	3.00 (76.2mm)	10.62 (269.7mm)	000274
			4.50 (114.3mm)	12.12 (307.8mm)	000275
	EU	TE	3.00 (76.2mm)	13.30 (337.8mm)	000283
			4.50 (114.3mm)	14.80 (375.9mm)	000284
	ALL	S	3.00 (76.2mm)	PER CUSTOMER	TO BE ASSIGNED
			4.50 (114.3mm)		
175 SERIES RAMS 10 TON PRESSES	H	PA	3.00 (76.2mm)	11.97 (304.0mm)	013109
			4.50 (114.3mm)	13.47 (342.1mm)	013110
	FM	P	3.00 (76.2mm)	10.62 (269.7mm)	004886
			4.50 (114.3mm)	12.12 (307.8mm)	004887
	EU	TE	3.00 (76.2mm)	13.30 (337.8mm)	005687
			4.50 (114.3mm)	14.80 (375.9mm)	004893
	ALL	S	3.00 (76.2mm)	PER CUSTOMER	TO BE ASSIGNED
			4.50 (114.3mm)		

* P-150 RAMS USE A SNAP RING TO BACK UP STRIPPER.

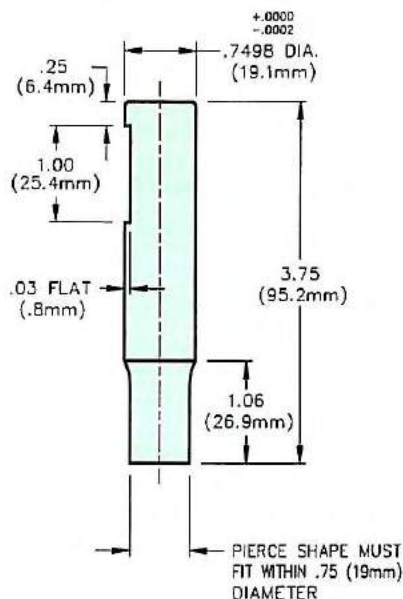


Strippers, Punches and Dies

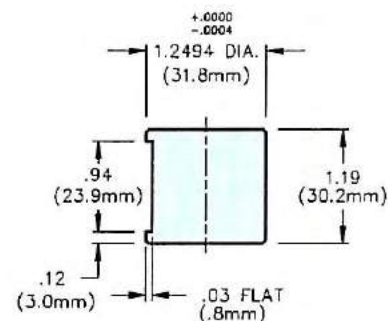
SS-4 STRIPPER
BTM ASS'Y NO. 000286



SS-4 PIERCE PUNCH
BTM No. 013149

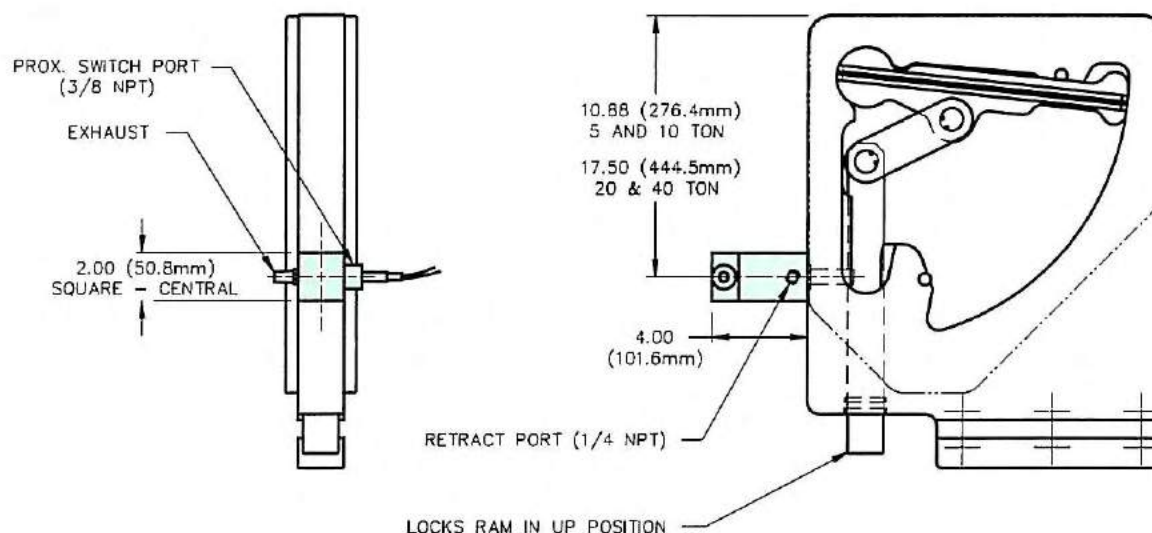


SS-4 PIERCE DIE
BTM No. 013150



Matched Punch & Die Sets - Fax Pierce
Punch Shape For Quote To Punch Tech, Inc.
(Division of BTM) Fax: 810-364-6030

Ram Latch with Proximity Switch



The ram latch prevents the ram from drifting down, and is used to facilitate tool changes with the air off.

Available on 5, 10, 20 and 40 Ton Presses
Models: H, FM, EU, REU, T, B or F.
(H Shown)

NOTE: 2 Ram Latches are required for 40 Ton Presses. Located on center-line of rams.

Retract port, and prox. switch location positioned by customer. See page 28.