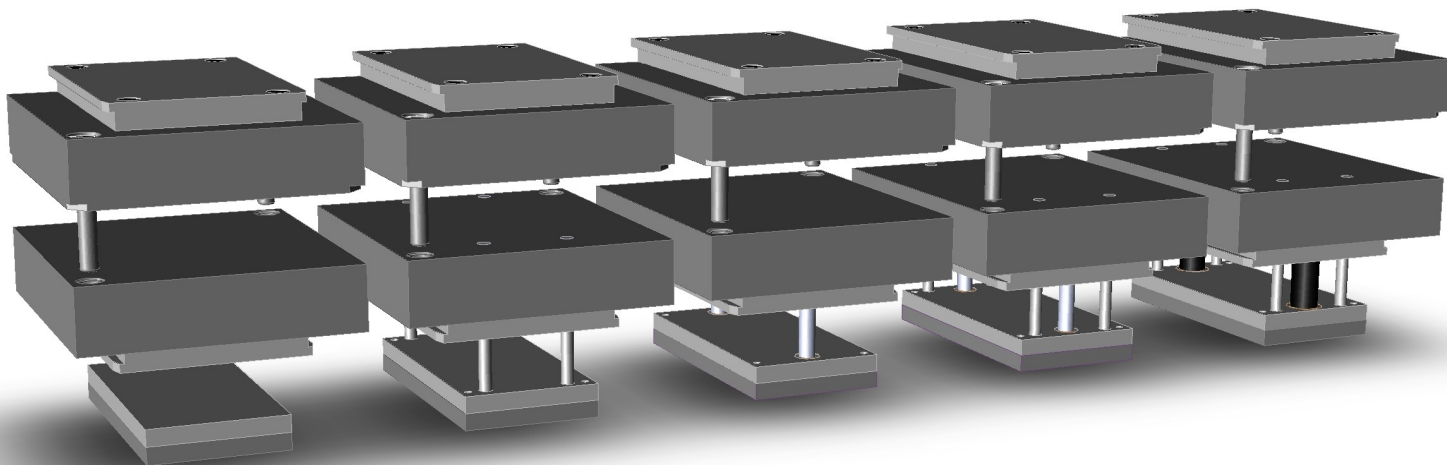


Cross Tool & Manufacturing, Incorporated

*Providing Quality Products, Competitive Pricing, and
Exceptional Service Since 1980*



C-SERIES CATALOG

New for 2019: More sizes added

Now includes: 08/09, 08/10, 84/90, 10/12, 10/14 and 11/11

C-Series inserts introduced in 2017

New products, New options, More choices.

- * Bolted ears plates with tubular dowels.
- * 2 choices of guided ejection (Simple or Guided Support pillars).
- * Return pins, no return pins, or just basic blank ejector plates.
- * Standardized Stripper and 3-Plate Mold Inserts.

See our main catalog or go on-line crosstool.com to see our standard Frames and Molding Inserts up to the 14/16 U-FRAME and H-STYLE INSERTS

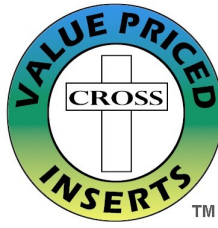


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Made in the USA

Cross Tool and Manufacturing has been building Plastic Injection Molding Inserts and Frames since the mid-1980's. Over the last several years we have been continually improving our processes, quality, and capacity. This makes possible the addition of the (C-SERIES INSERTS) to our product line. We still make all of our products in the USA with local labor and suppliers.

More standard options

C-SERIES:

Cross Tool: We are known for our high quality and great prices.

Comparable: Compares with other companies offering complete assemblies. No need to change your lay-out. We are now offering our 08/09 and 08/10 with 1/2" leader pins. The Pin locations have moved on the 08/09 and 08/10, but stayed the same on our 84/90, 10/12, 10/14 and 11/11 Inserts. We have also added the slotted full width sides to Standard solid (C-XSU Series) inserts.

Choices: Off the shelf availability of 5 standard options for return pins and guided ejection. We also offer standardized three plate, and stripper plate inserts.

Competitive: Better pricing and more options.

Cost effective: Let us save you time and money by combining pockets, waterlines, bolted ear-plates, guided ejector plates, and return pins as options during the manufacturing of your inserts.

Yes, We still build all of our standard Products. U-Frames and inserts through 14/16 size, and H-Frame inserts. We do not build H-Frames.

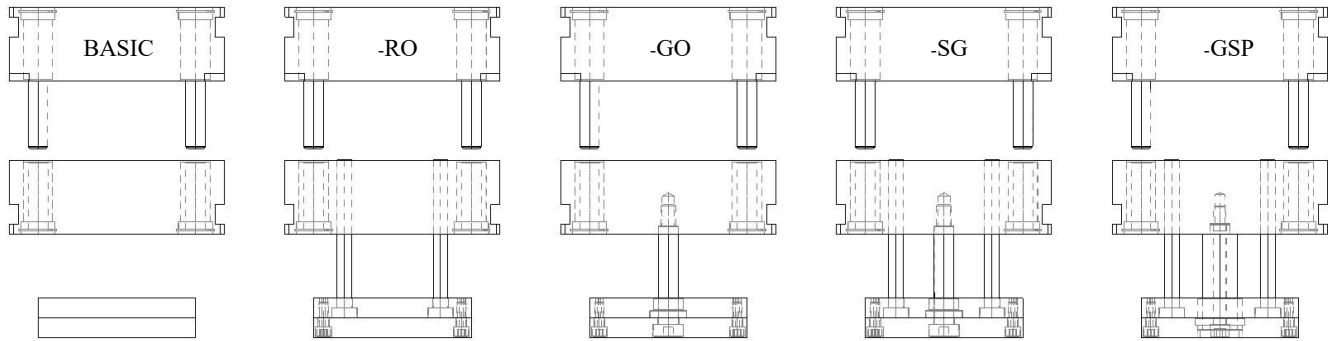
C-SERIES INTERCHANGEABLE MOLDING INSERTS

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08/09 C-XSU SOLID INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM

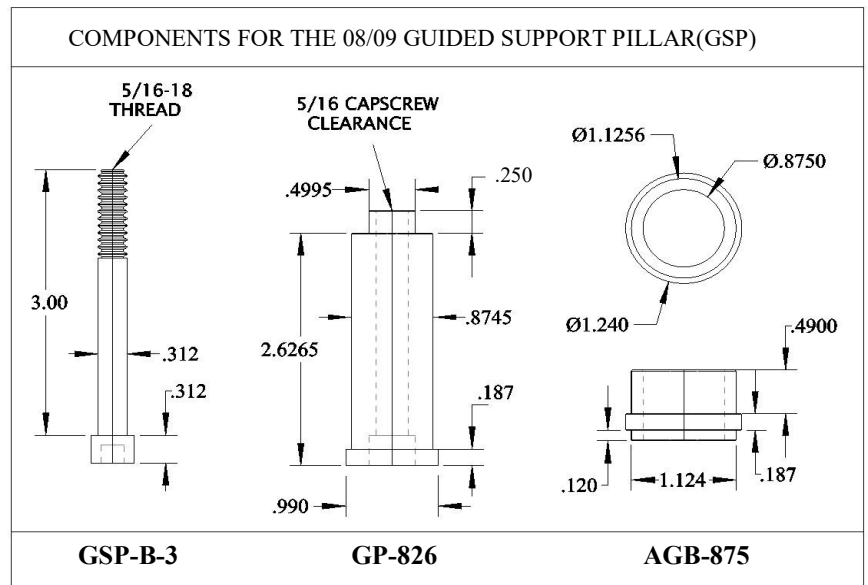


ORDERING EXAMPLES:

08/09 C-XSU-224-RO
08/09 C-XSU-227-GSP
08/09 C-XSU-230-SG

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE

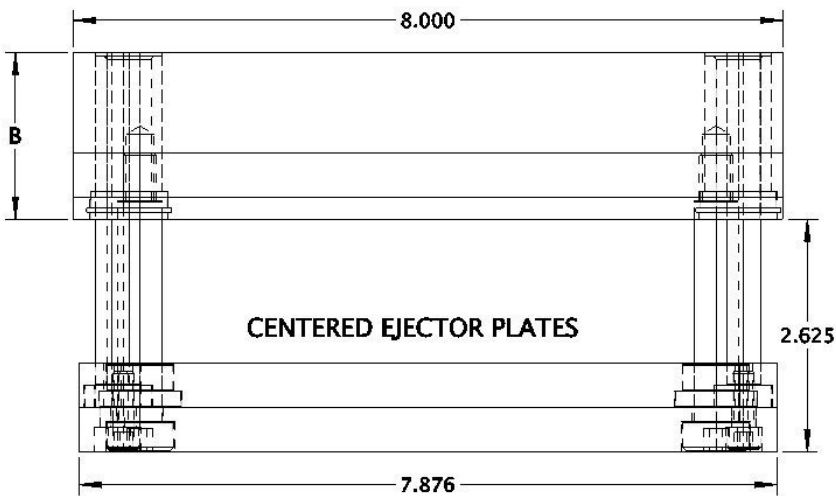
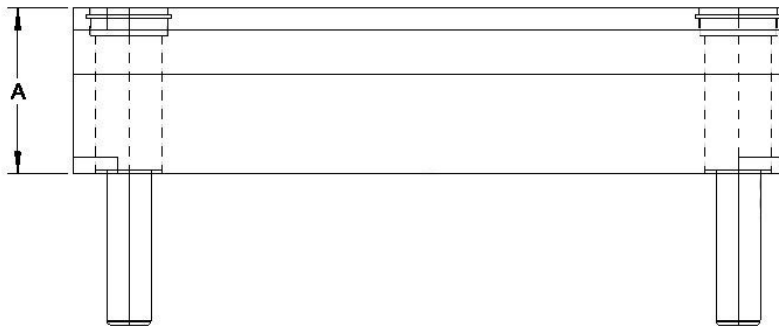
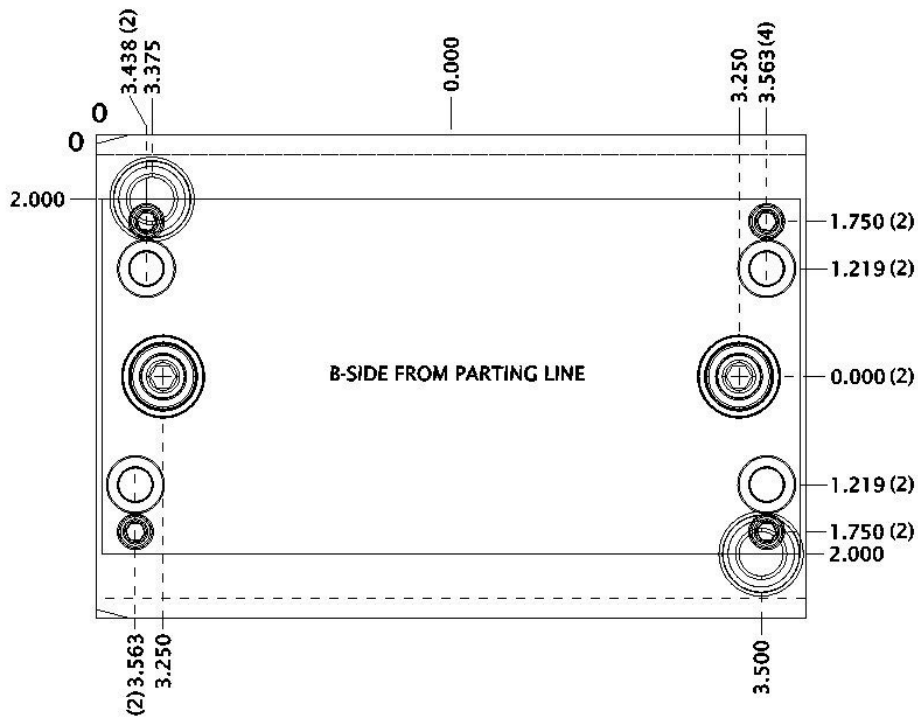
CATALOG NUMBER BASIC	A	B
08/09 C-XSU-224	1.877	1.877
08/09 C-XSU-225	1.877	2.377
08/09 C-XSU-226	2.377	1.877
08/09 C-XSU-227	2.377	2.377
08/09 C-XSU-228	2.377	2.877
08/09 C-XSU-229	2.877	2.377
08/09 C-XSU-230	2.877	2.877



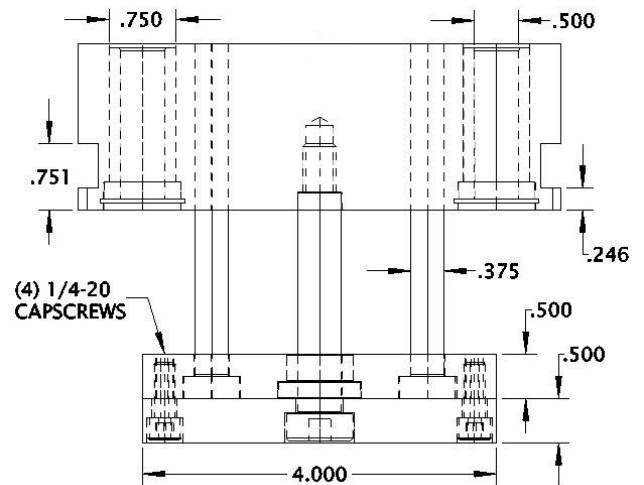
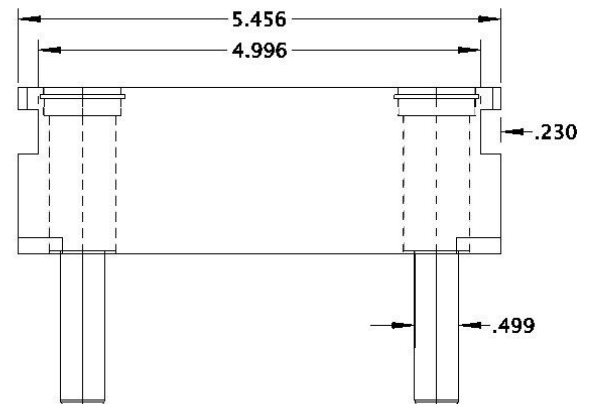
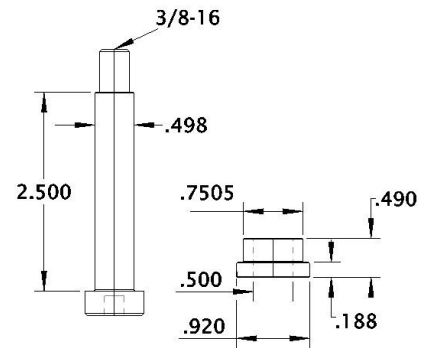
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

08/09 C-XSU 5.0 X 8.0 FITS 08/09 U-FRAME

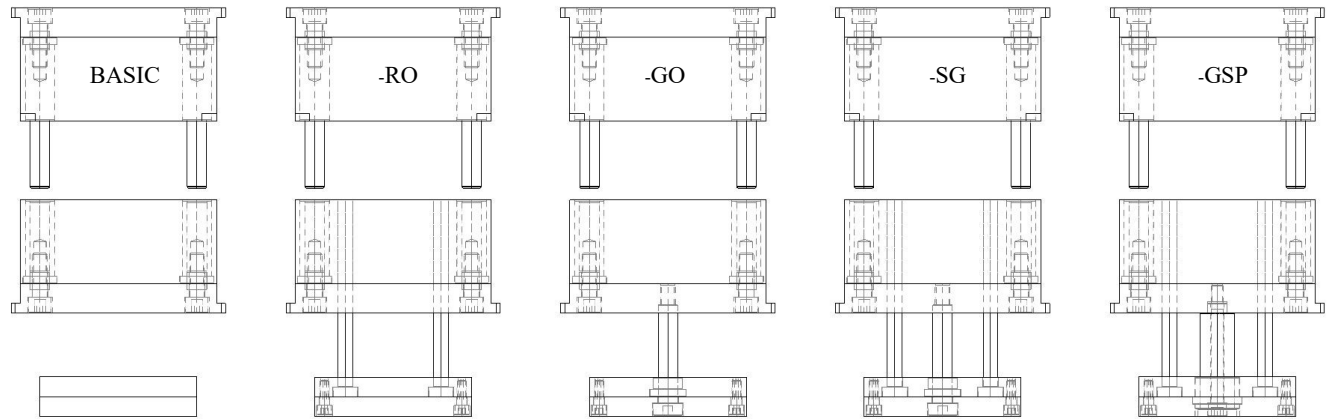


SIMPLE GUIDED



08/09 C-SLU LAMINATED INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM

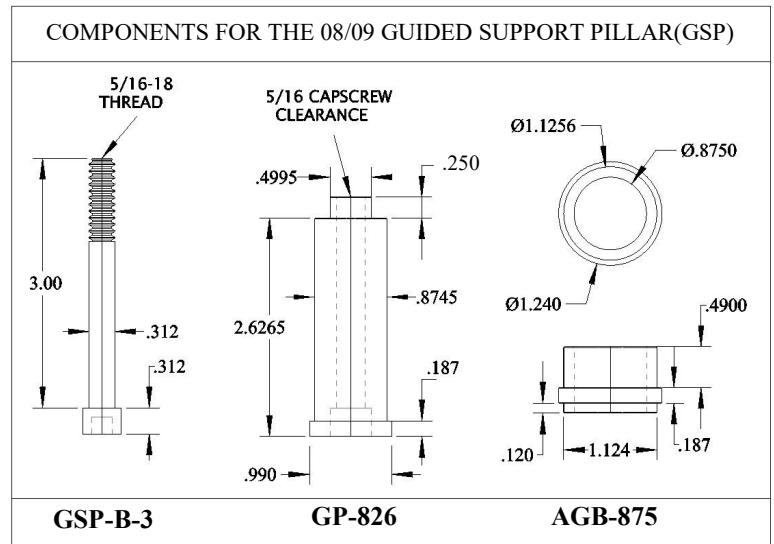


THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

ORDERING EXAMPLES:

08/09 C-SLU-284-RO 08/09 C-SLU-287-GSP

CATALOG NUMBER BASIC	A	A2	B2	B
08/09 C-SLU-284	1.877	1.127	1.127	1.877
08/09 C-SLU-285	1.877	1.127	1.627	2.377
08/09 C-SLU-286	2.377	1.627	1.127	1.877
08/09 C-SLU-287	2.377	1.627	1.627	2.377
08/09 C-SLU-288	2.377	1.627	2.127	2.877
08/09 C-SLU-289	2.877	2.127	1.627	2.377
08/09 C-SLU-290	2.877	2.127	2.127	2.877

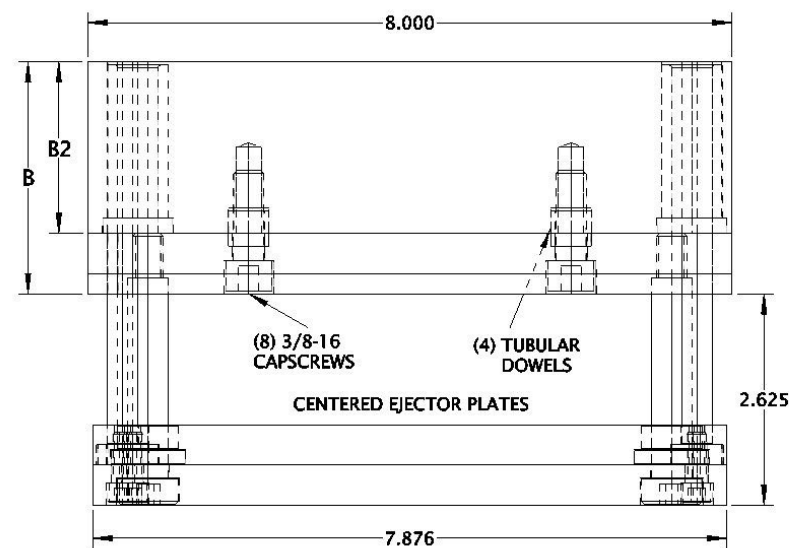
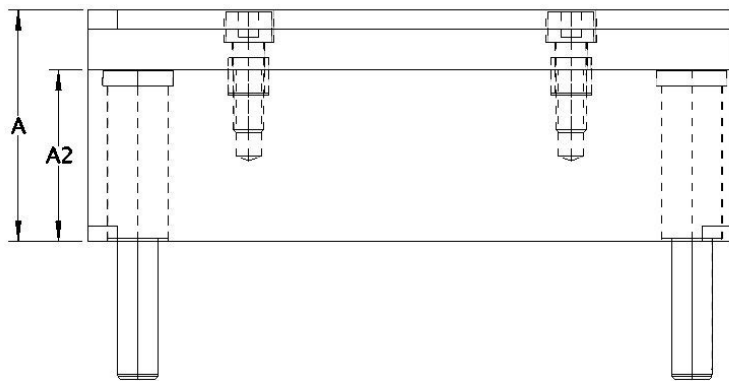
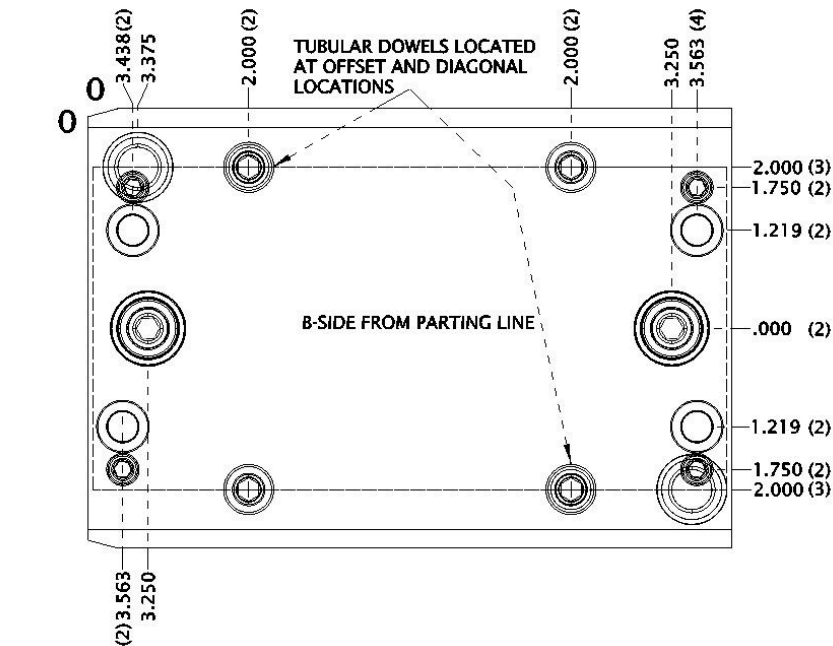


NOTE: THE C-SLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

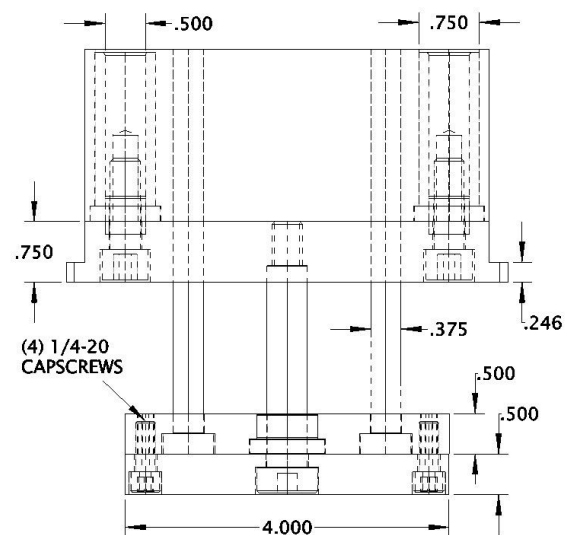
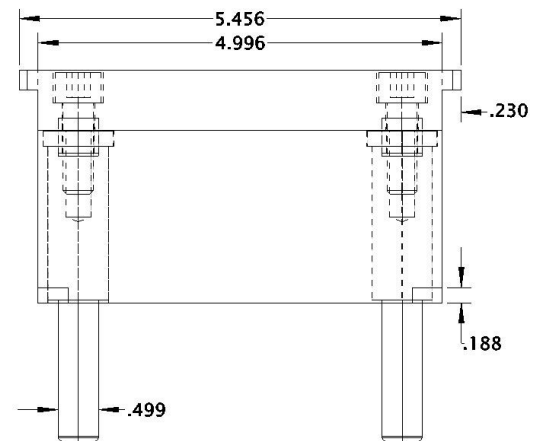
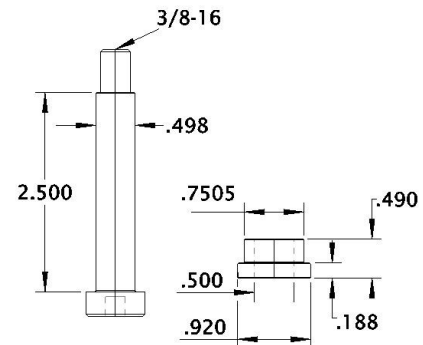
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
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08/09 C-SLU 5.0 X 8.0 FITS 08/09 U-FRAME

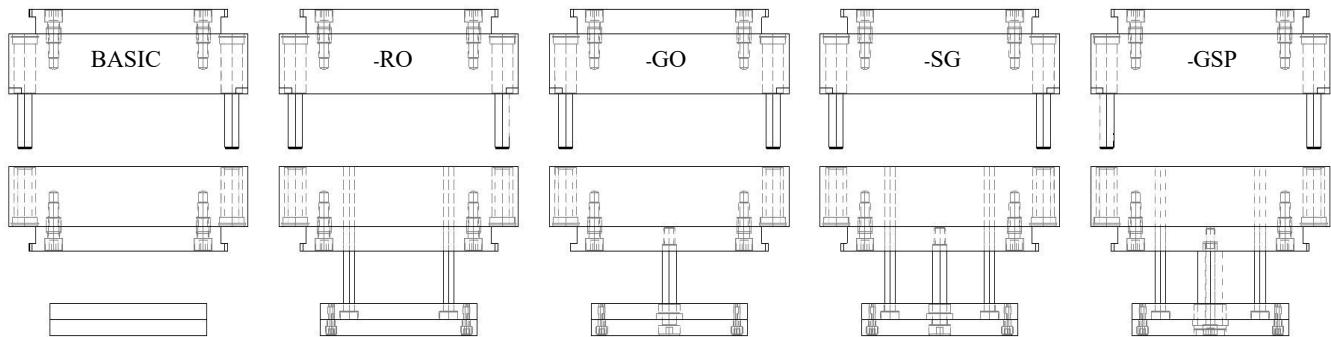


SIMPLE GUIDED



08/09 C-TLU LAMINATED T-STYLE

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSTOOL.COM



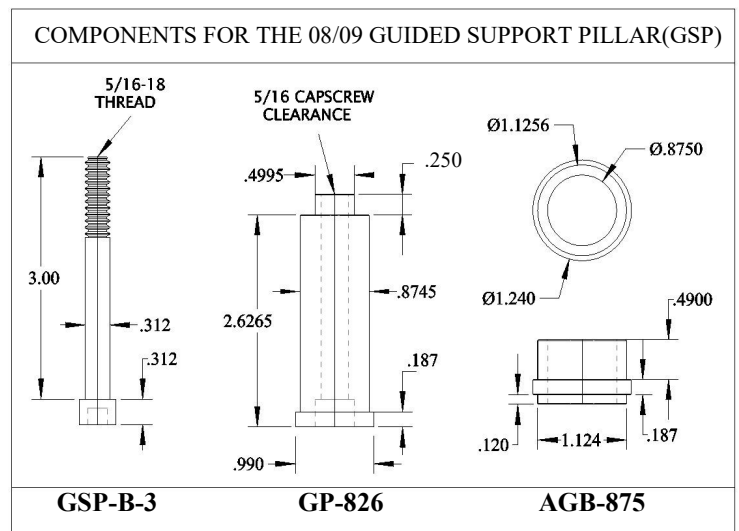
ORDERING EXAMPLES:

08/09 C-TLU-002-RO 08/09 C-TLU-004-GSP
08/09 C-TLU-006-SG 08/09 C-TLU-001-GO

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

CATALOG NUMBER BASIC	A	A2	B2	B
08/09 C-TLU-001	2.127	1.377	1.377	2.127
08/09 C-TLU-002	2.127	1.377	1.877	2.627
08/09 C-TLU-003	2.627	1.877	1.377	2.127
08/09 C-TLU-004 (TLU 206)	2.627	1.877	1.877	2.627
08/09 C-TLU-005	2.627	1.877	2.377	3.127
08/09 C-TLU-006	3.127	2.377	2.377	3.127

NOTE: NEW SIZES



NOTE: THE C-TLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

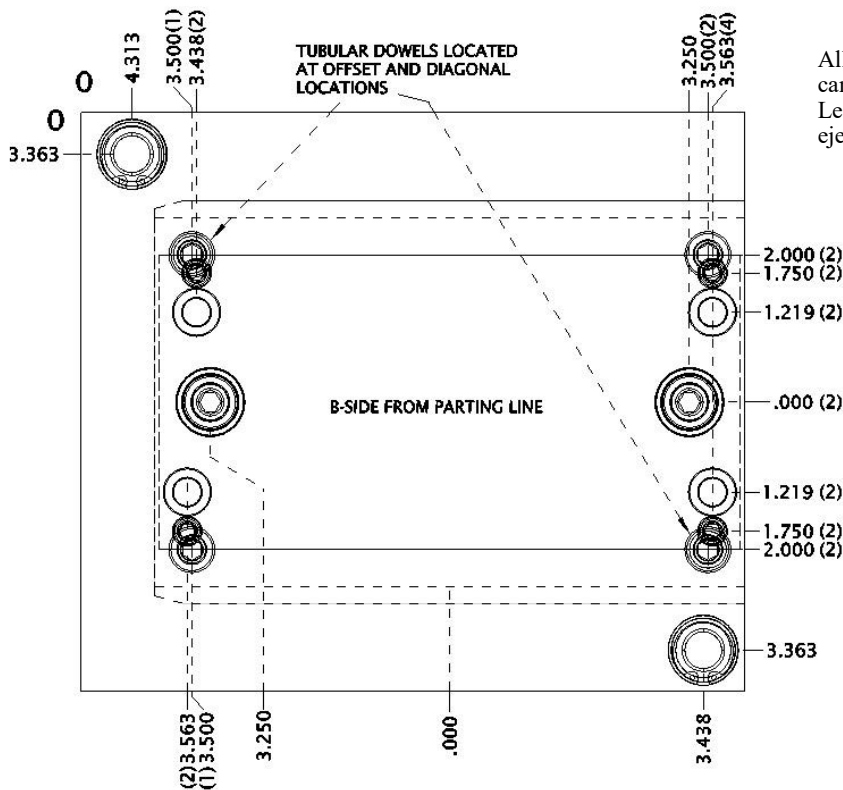
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
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08/09 C-TLU

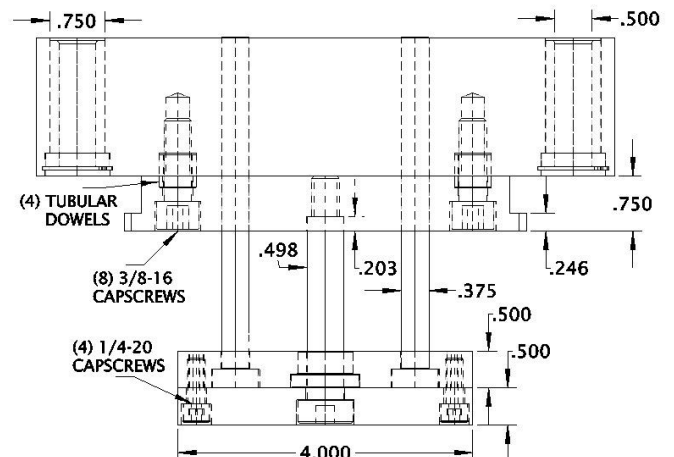
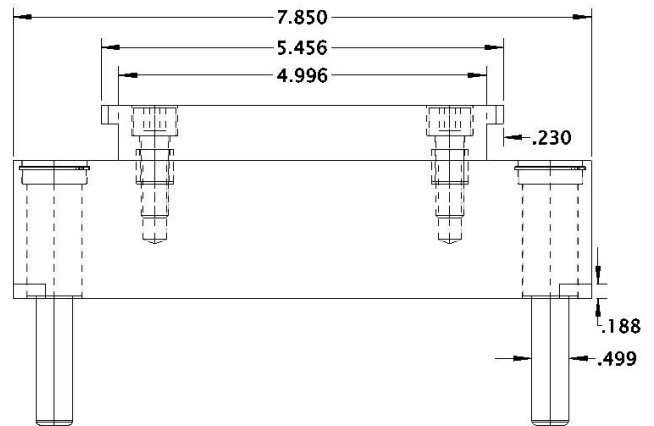
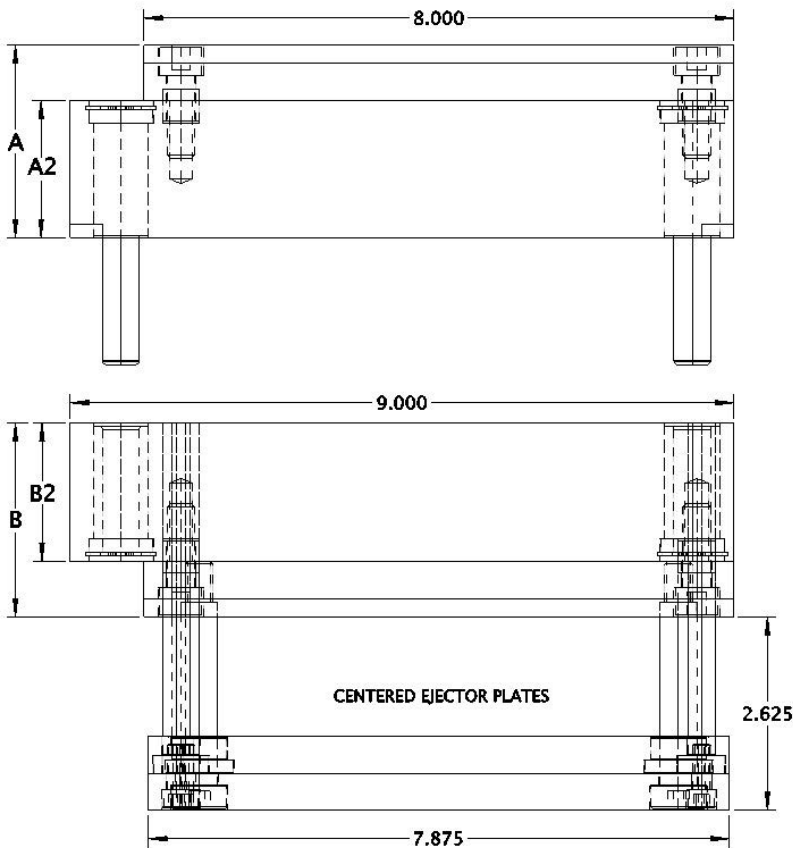
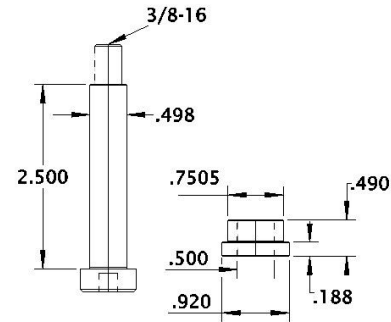
5.0 X 8.0 EAR PLATE 7.85 X 9.0 T-PLATE

FITS 08/09 U-FRAME

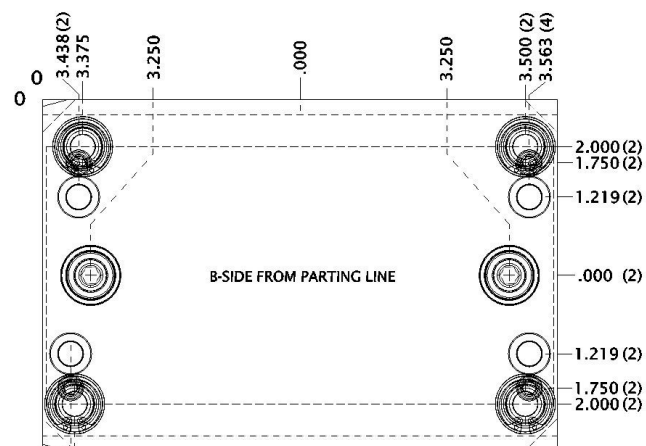


All C-TLU'S can be modified in length and width to accommodate cams or waterlines. Leader Pin locations can be moved, or 2 more Leader Pins can be added for an additional cost. All ear-plate and ejector locations will stay in the same position.

SIMPLE GUIDED



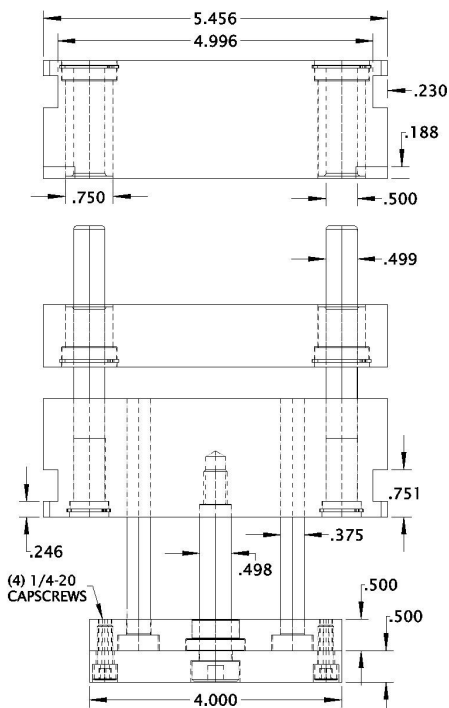
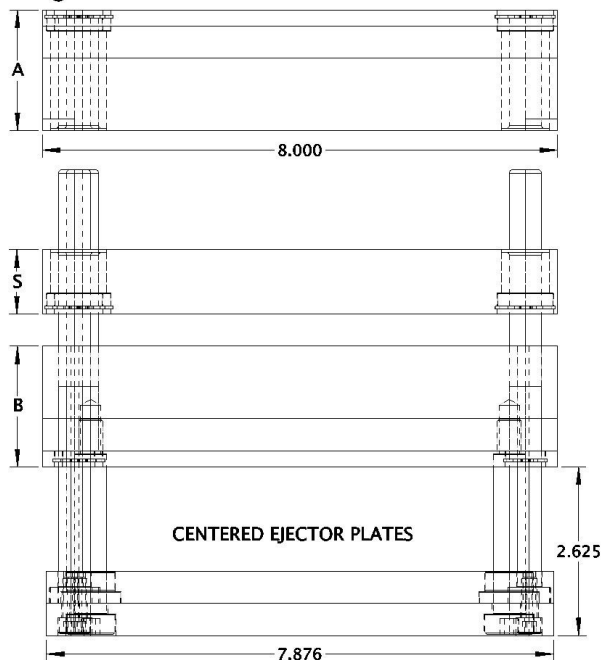
08/09 C-XSU-S STRIPPER PLATE INSERT 5.0 X 8.0 FITS 08/09 U-FRAME



SHOWN AS SIMPLE GUIDED WITH 4 STRAIGHT LEADER PINS.

YOUR CHOICES INCLUDE:

- * 2 STANDARD LOCATED LEADER PINS (OPTIONAL)
- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES (SEE C-XSU PAGE 6)
- * ALSO AVAILABLE WITH A LAMINATED A-SIDE OR B-SIDE



ORDERING EXAMPLES:

CUSTOM ORDER EXAMPLES:

08/09 C-XSU-S-005-1
08/09 C-XSU-S-001-1
08/09 C-XSU-S-003-1

08/09 C-SLU-S 08/09 C-XSU-S-2HOLE
A 1.877 A 1.877
A2 1.125 S 0.750
S 1.000 B 2.377
B2 1.627
B 2.377

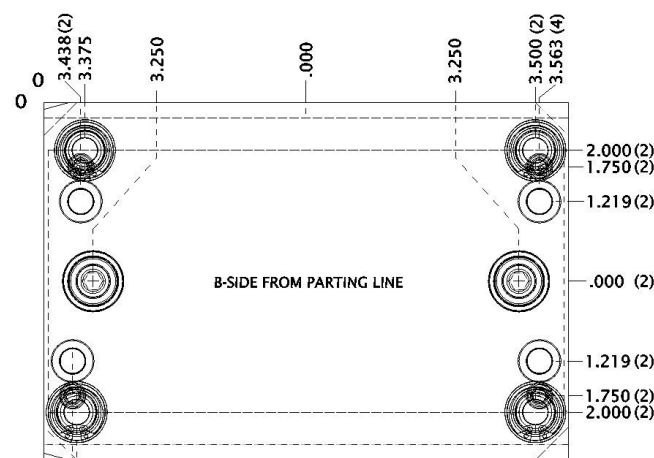
CATALOG NUMBER	A	B	S
08/09 C-XSU-S-001	1.877	1.377	1.000
08/09 C-XSU-S-002	1.877	1.877	1.000
08/09 C-XSU-S-003	1.877	2.377	1.000
08/09 C-XSU-S-004	2.377	1.877	1.000
08/09 C-XSU-S-005	2.377	2.377	1.000
08/09 C-XSU-S-006	2.877	2.377	1.000

A-PLATES AND B-PLATES CAN BE ORDERED IN ANY COMBINATION OF 1.377, 1.877, 2.377, OR 2.877.

OTHER STRIPPER THICKNESSES ARE ALSO AVAILABLE

08/09 C-XSU-3P 3 PLATE INSERT

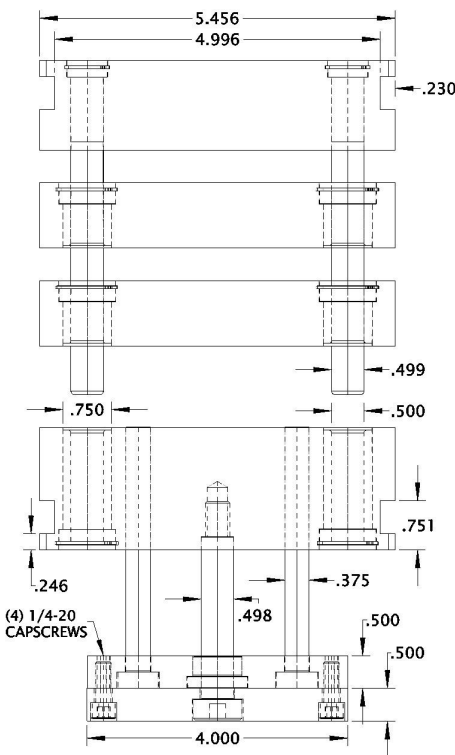
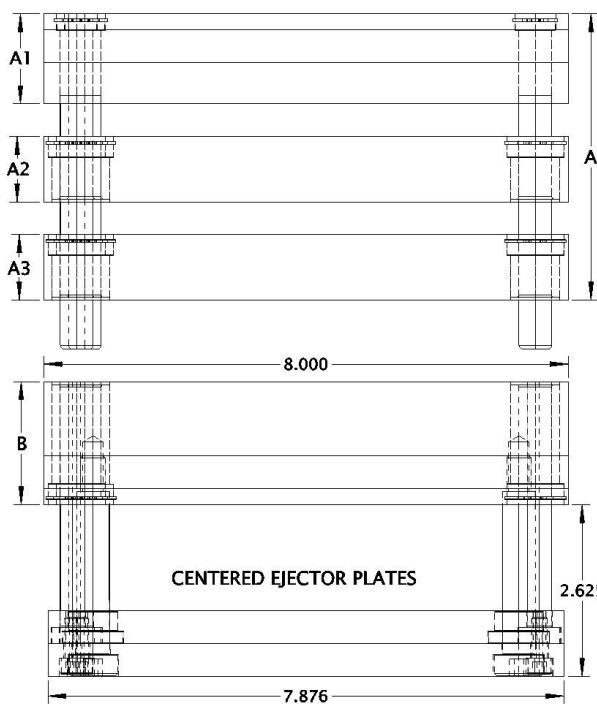
5.0 X 8.0 FITS 08/09 U-FRAME



SHOWN AS SIMPLE GUIDED WITH 4 STRAIGHT LEADER PINS.

YOUR CHOICES INCLUDE:

- * 2 STANDARD LOCATED LEADER PINS (OPTIONAL)
- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES (SEE C-XSU PAGE 6)
- * ALSO AVAILABLE WITH A LAMINATED B-SIDE



CATALOG NUMBER EXAMPLES ONLY	A1	A2	A3	B
08/09 C-XSU-3P-001	1.000	1.000	1.000	1.877
08/09 C-XSU-3P-002	1.000	1.000	1.000	2.377
08/09 C-XSU-3P-003	1.000	1.000	1.000	2.877
08/09 C-XSU-3P-004	1.377	1.000	1.000	1.877
08/09 C-XSU-3P-005	1.377	1.000	1.000	2.377
08/09 C-XSU-3P-006	1.377	1.000	1.000	2.877

CAN BE ORDERED IN ANY COMBINATION OF 1.00, 1.377, 1.877, 2.377, OR 2.877.

ORDERING EXAMPLES:

08/09 C-XSU-3P-005
08/09 C-XSU-3P-001
08/09 C-XSU-3P-003

CUSTOM ORDER EXAMPLES:

08/09 C-XSU-3P	08/09 C-XSU-3P
A1 1.877	A1 1.377
A2 1.250	A2 1.877
A3 1.377	A3 1.000
B2 1.627	B 2.377
B 2.377	

08/10 C-XSU SOLID INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSTOOL.COM

BASIC

-RO

-GO

-SG

-GSP

ORDERING EXAMPLES:

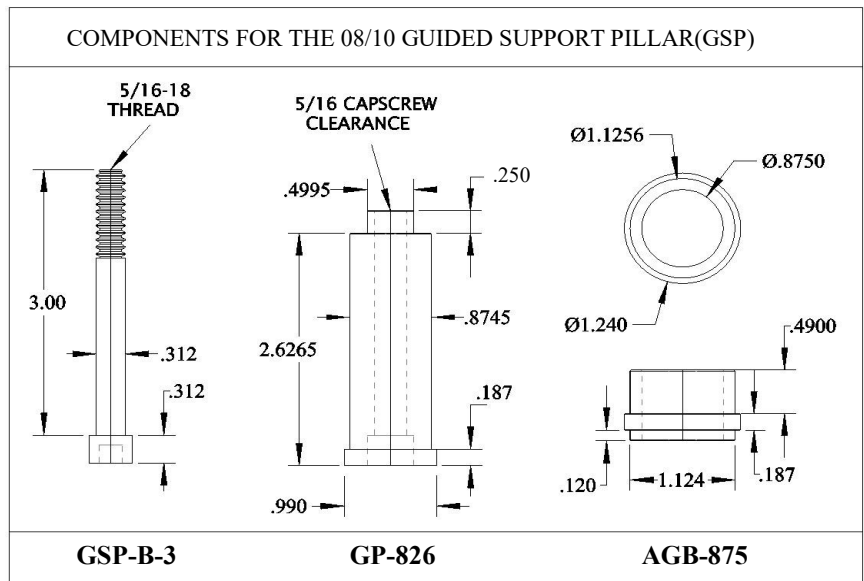
08/10 C-XSU-224-RO
08/10 C-XSU-227-GSP
08/10 C-XSU-230-SG

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE

CATALOG NUMBER BASIC	A	B
08/10 C-XSU-224	1.877	1.877
08/10 C-XSU-225	1.877	2.377
08/10 C-XSU-226	2.377	1.877
08/10 C-XSU-227	2.377	2.377
08/10 C-XSU-228	2.377	2.877
08/10 C-XSU-229	2.877	2.377
08/10 C-XSU-230	2.877	2.877

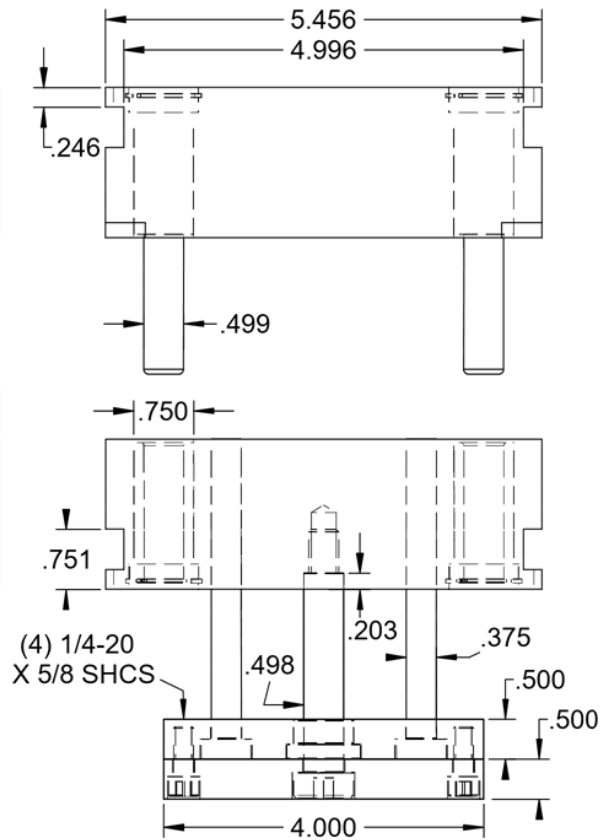
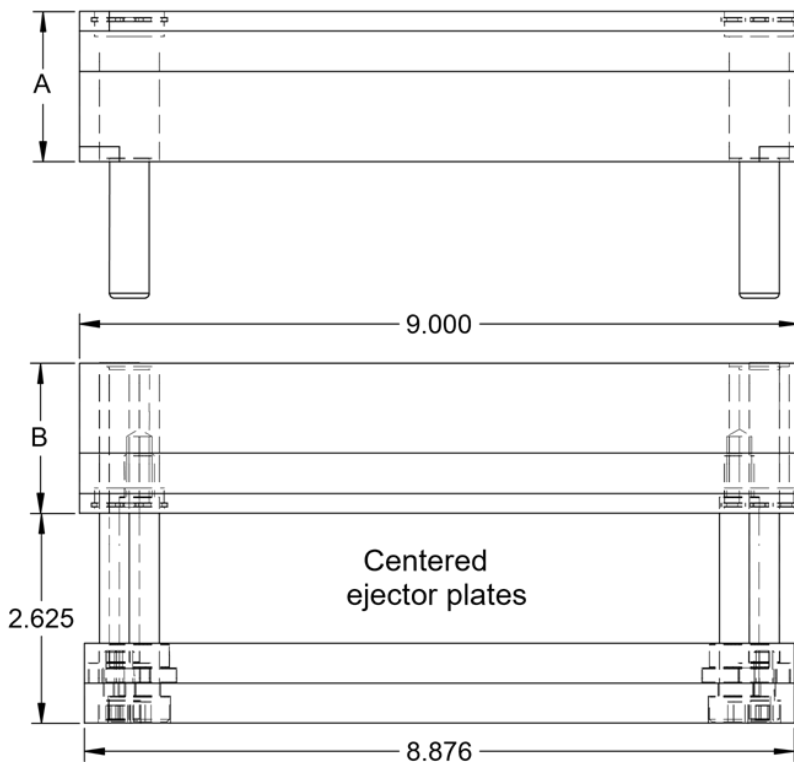
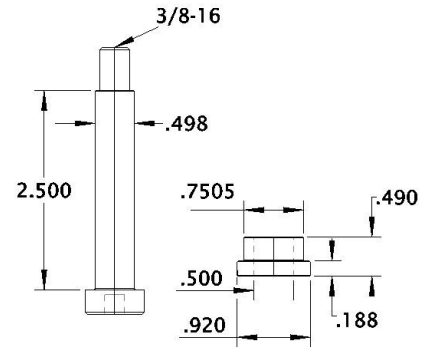
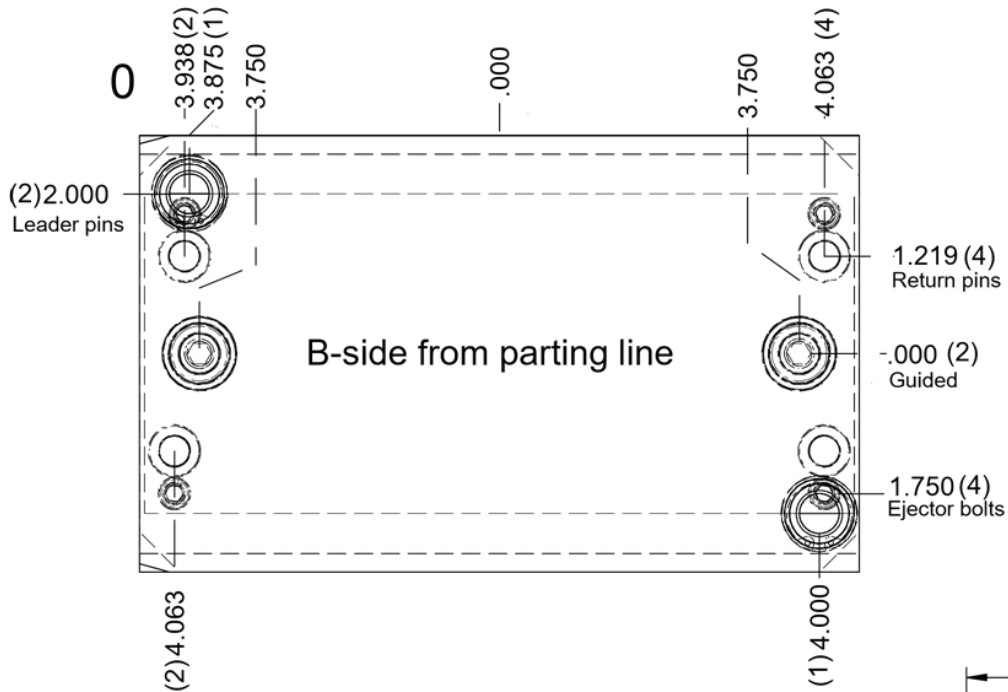
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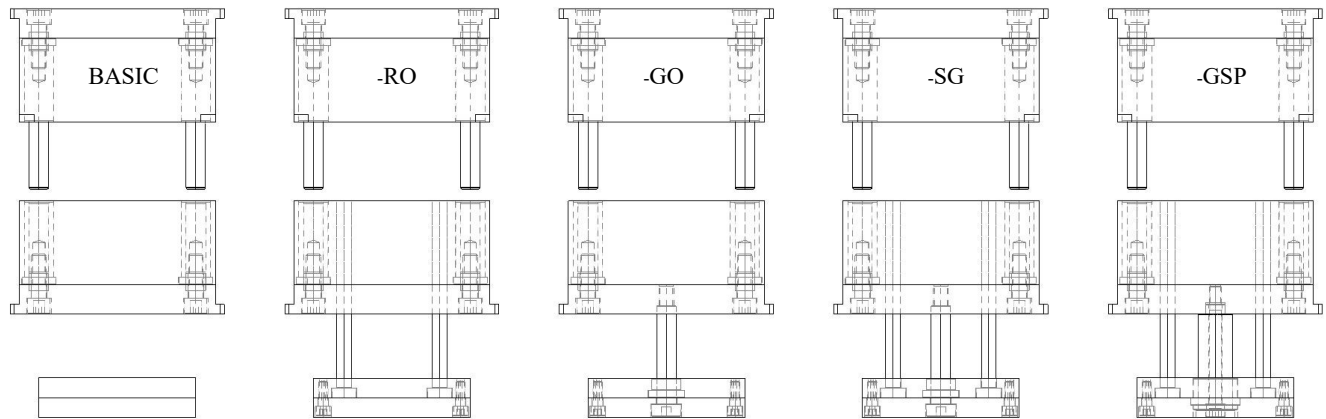
08/10 C-XSU 5.0 X 9.0 FITS 08/10 U-FRAME

SIMPLE GUIDED



08/10 C-SLU LAMINATED INSERT

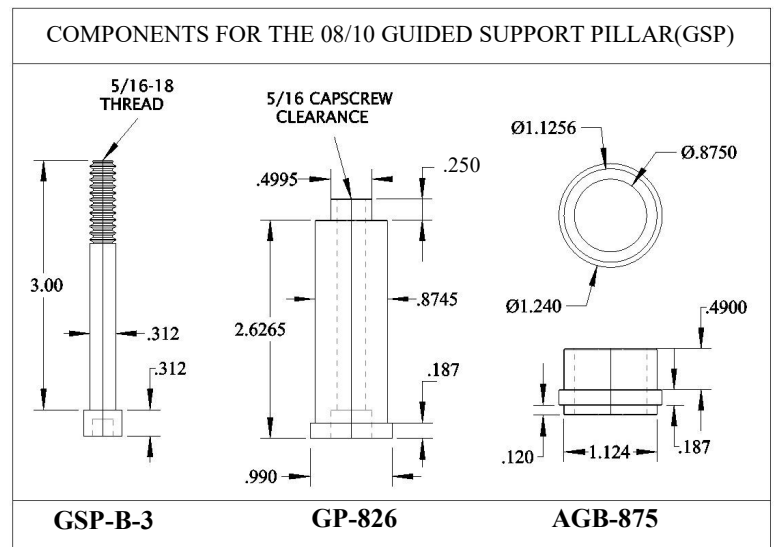
DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM



ORDERING EXAMPLES:

08/10 C-SLU-284-RO 08/10 C-SLU-287-GSP

CATALOG NUMBER	A	A2	B2	B
08/10 C-SLU-284	1.877	1.127	1.127	1.877
08/10 C-SLU-285	1.877	1.127	1.627	2.377
08/10 C-SLU-286	2.377	1.627	1.127	1.877
08/10 C-SLU-287	2.377	1.627	1.627	2.377
08/10 C-SLU-288	2.377	1.627	2.127	2.877
08/10 C-SLU-289	2.877	2.127	1.627	2.377
08/10 C-SLU-290	2.877	2.127	2.127	2.877

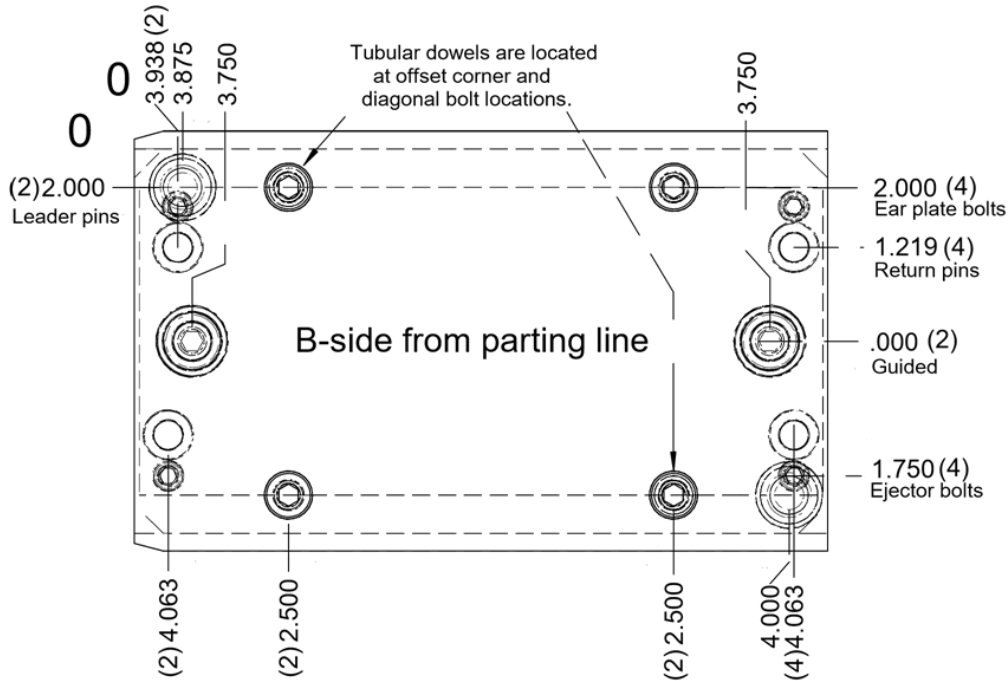


NOTE: THE C-SLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

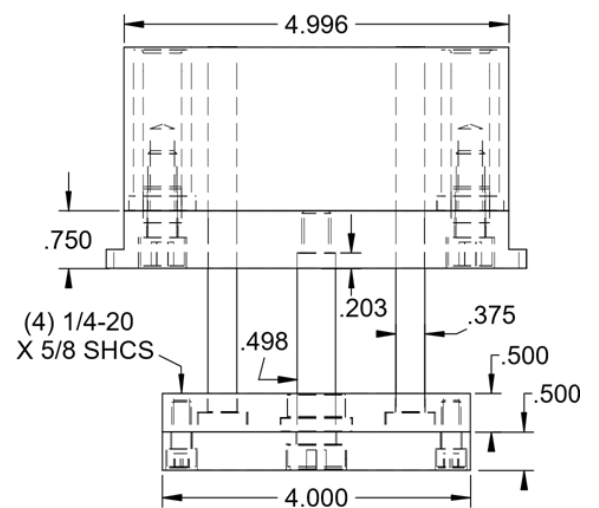
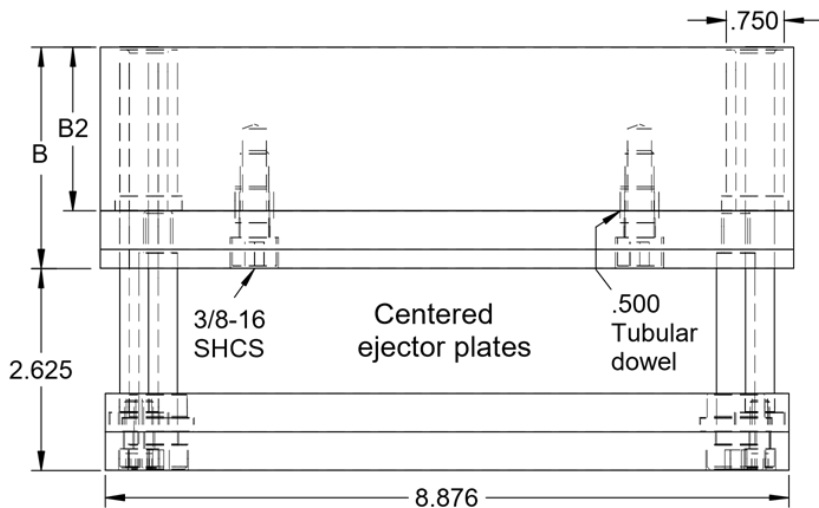
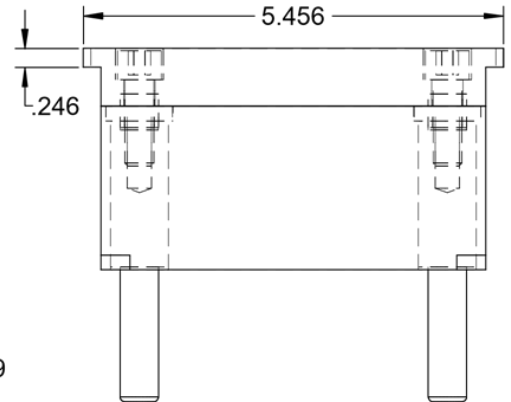
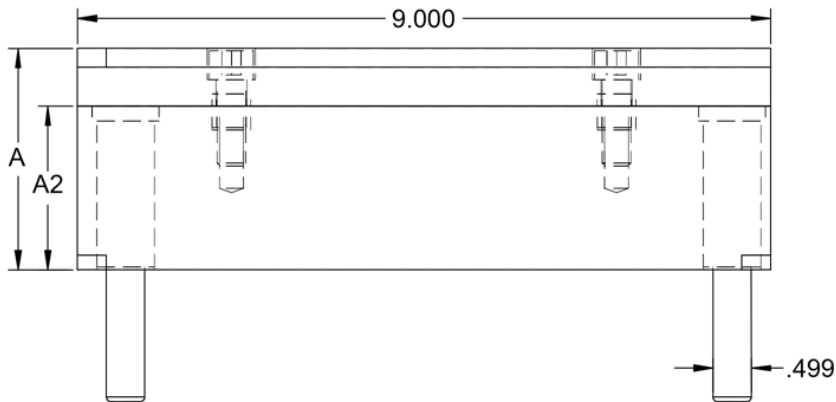
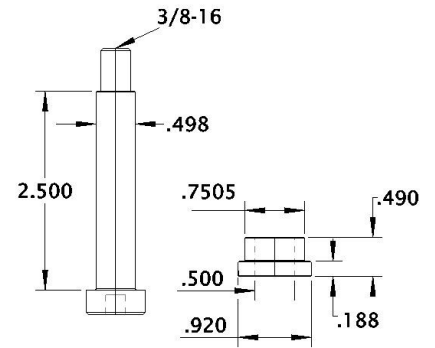
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

08/10 C-SLU 5.0 X 9.0 FITS 08/10 U-FRAME

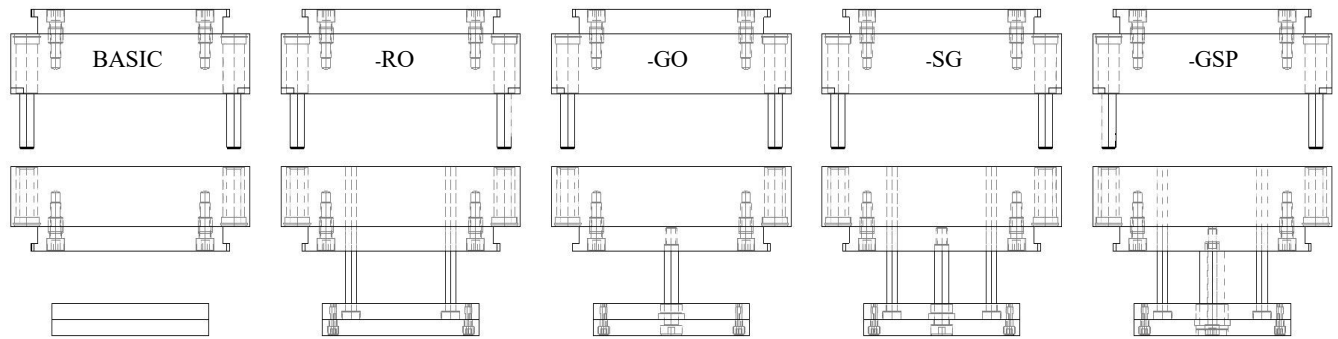


SIMPLE GUIDED



08/10 C-TLU LAMINATED T-STYLE

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM



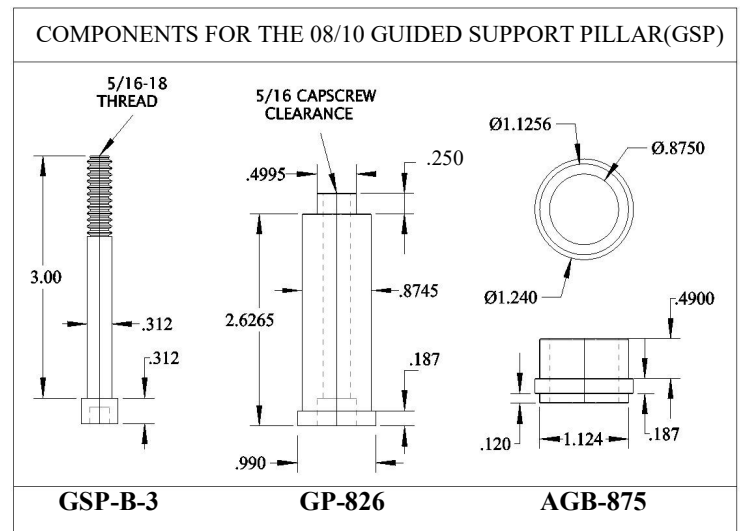
ORDERING EXAMPLES:

08/10 C-TLU-002-RO 08/10 C-TLU-004-GSP
08/10 C-TLU-006-SG 08/10 C-TLU-001-GO

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

CATALOG NUMBER BASIC	A	A2	B2	B
08/10 C-TLU-001	2.127	1.377	1.377	2.127
08/10 C-TLU-002	2.127	1.377	1.877	2.627
08/10 C-TLU-003	2.627	1.877	1.377	2.127
08/10 C-TLU-004 (TLU 206)	2.627	1.877	1.877	2.627
08/10 C-TLU-005	2.627	1.877	2.377	3.127
08/10 C-TLU-006	3.127	2.377	2.377	3.127

NOTE: NEW SIZES



NOTE: THE C-TLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

ADDITIONAL OPTIONS:

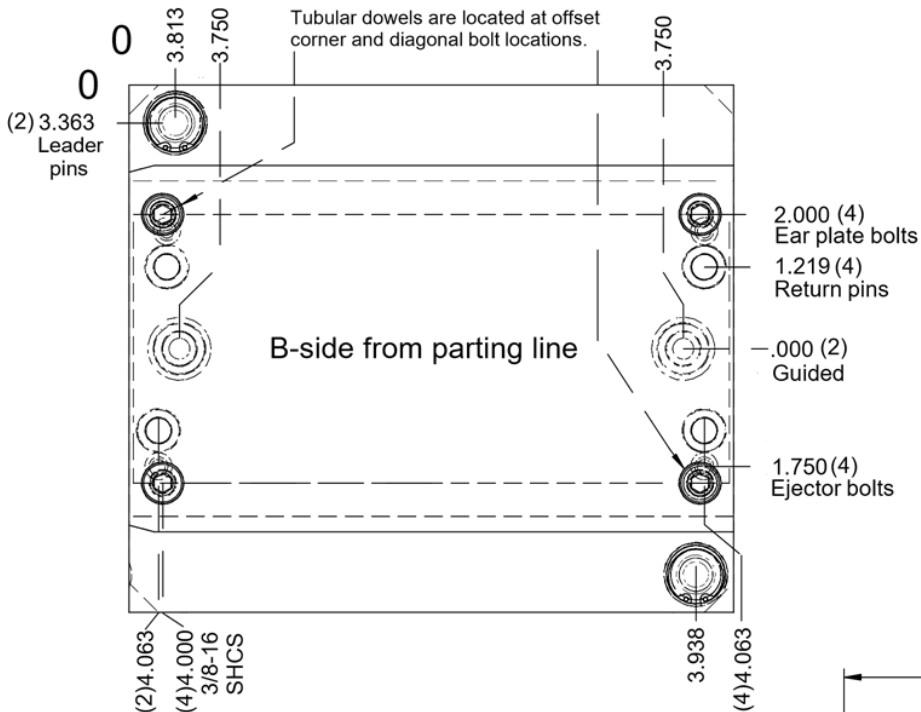
- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

08/10 C-TLU

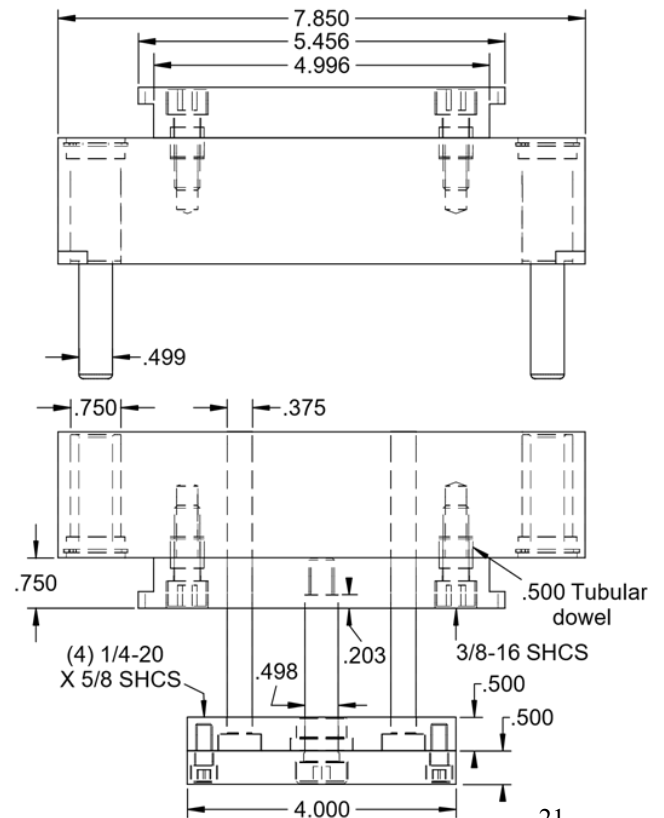
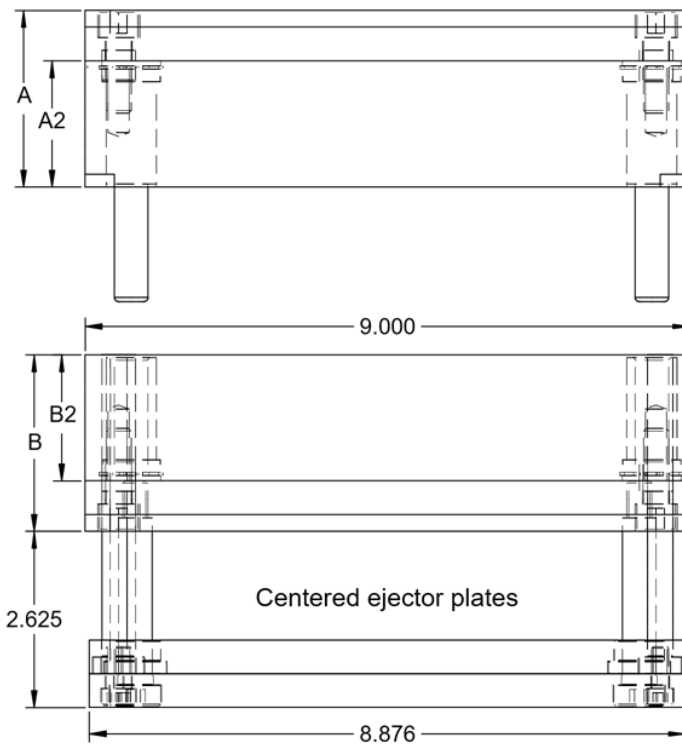
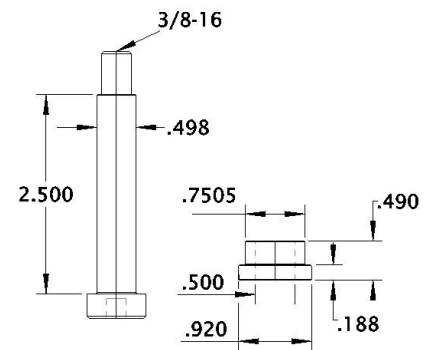
5.0 X 9.0 EAR PLATE
7.85 X 9.0 T-PLATE

FITS 08/10 U-FRAME

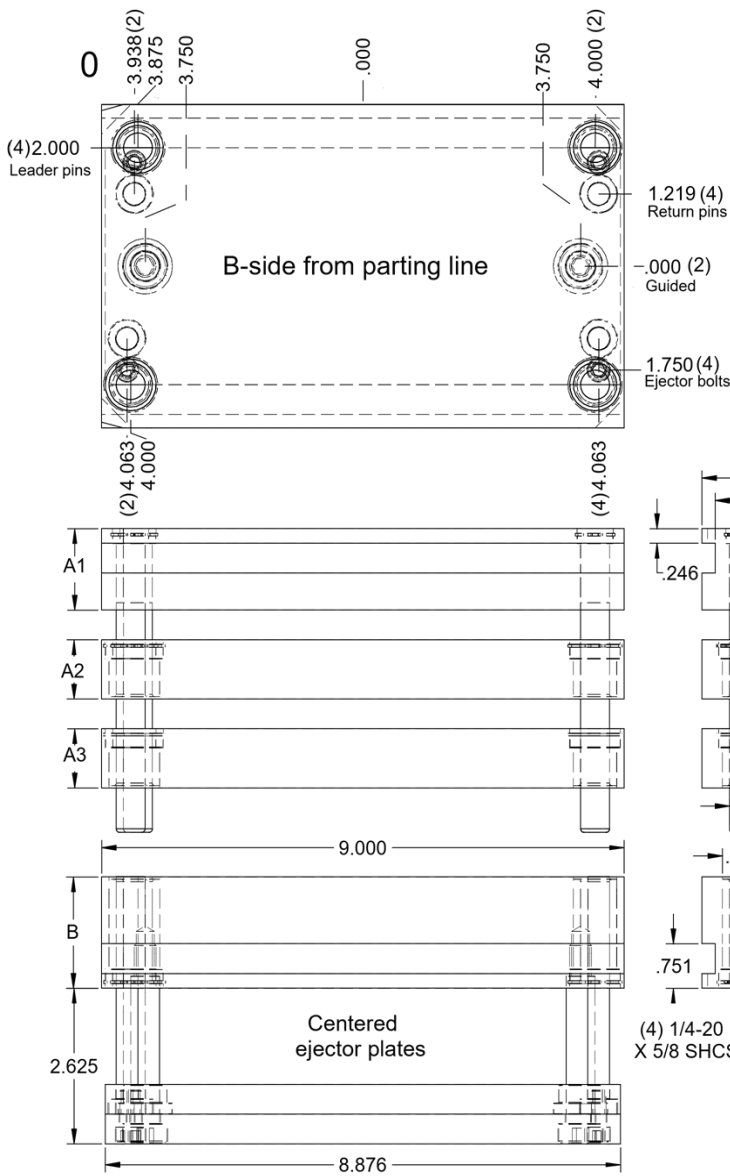
All C-TLU'S can be modified in length and width to accommodate cams or waterlines. Leader Pin locations can be moved, or 2 more Leader Pins can be added for an additional cost. All ear-plate and ejector locations will stay in the same position.



SIMPLE GUIDED



08/10 C-XSU-S STRIPPER PLATE INSERT 5.0 X 9.0 FITS 08/10 U-FRAME



SHOWN AS SIMPLE GUIDED WITH 4 STRAIGHT LEADER PINS.

YOUR CHOICES INCLUDE:

- * 2 STANDARD LOCATED LEADER PINS (OPTIONAL)
- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES (SEE C-XSU PAGE 14)
- * ALSO AVAILABLE WITH A LAMINATED A-SIDE OR B-SIDE

ORDERING EXAMPLES:

08/10 C-XSU-S-005-1
08/10 C-XSU-S-001-1
08/10 C-XSU-S-003-1

CUSTOM ORDER EXAMPLES:

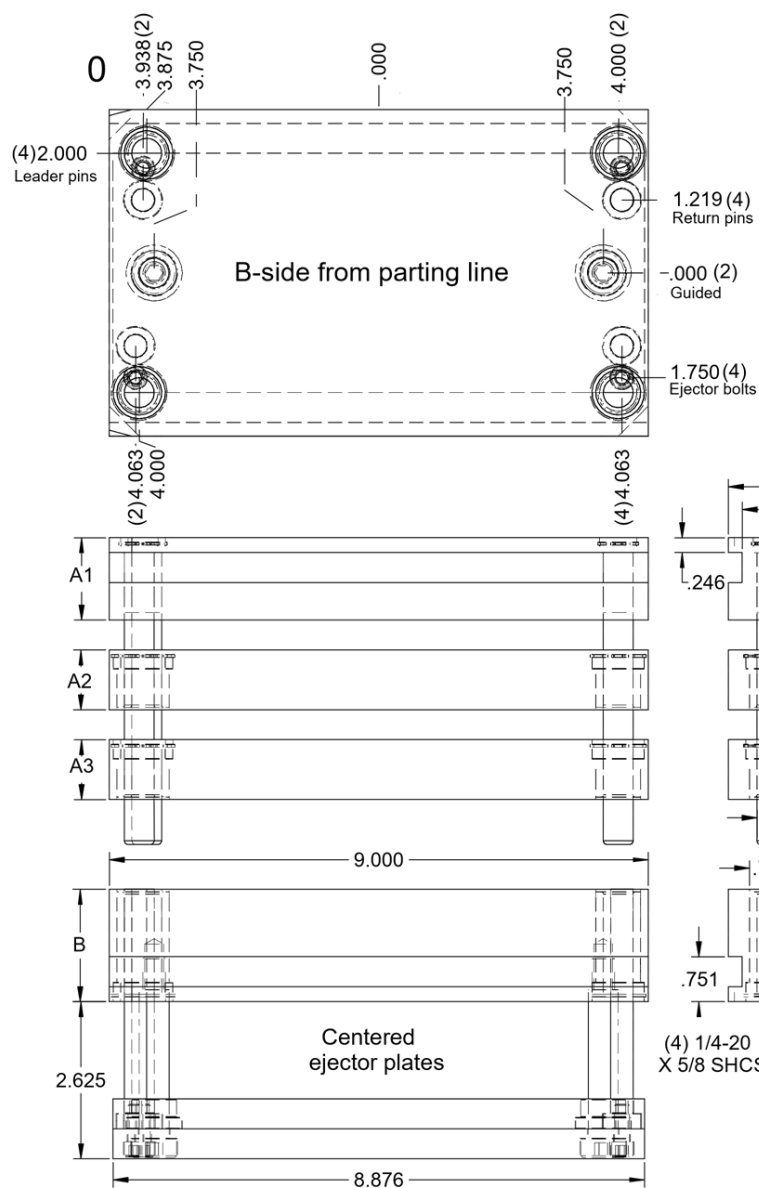
08/10 C-SLU-S 08/10 C-XSU-S-2HOLE
A 1.877 A 1.877
A2 1.125 S 0.750
S 1.000 B 2.377
B2 1.627
B 2.377

CATALOG NUMBER	A	B	S
08/10 C-XSU-S-001	1.877	1.377	1.000
08/10 C-XSU-S-002	1.877	1.877	1.000
08/10 C-XSU-S-003	1.877	2.377	1.000
08/10 C-XSU-S-004	2.377	1.877	1.000
08/10 C-XSU-S-005	2.377	2.377	1.000
08/10 C-XSU-S-006	2.877	2.377	1.000

A-PLATES AND B-PLATES CAN BE ORDERED IN ANY COMBINATION OF 1.377, 1.877, 2.377, OR 2.877.

OTHER STRIPPER THICKNESSES ARE ALSO AVAILABLE

08/10 C-XSU-3P 3 PLATE INSERT 5.0 X 9.0 FITS 08/10 U-FRAME



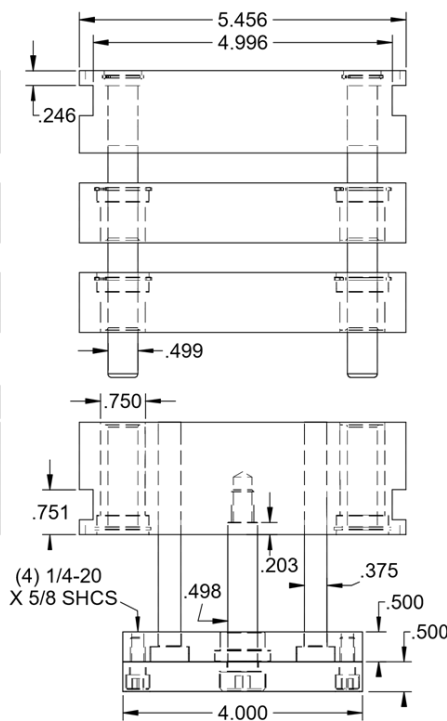
SHOWN AS SIMPLE GUIDED WITH 4 STRAIGHT LEADER PINS.

YOUR CHOICES INCLUDE:

* 2 STANDARD LOCATED LEADER PINS (OPTIONAL)

* ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES (SEE C-XSU PAGE 14)

* ALSO AVAILABLE WITH A LAMINATED B-SIDE



CATALOG NUMBER EXAMPLES ONLY	A1	A2	A3	B
08/10 C-XSU-3P-001	1.000	1.000	1.000	1.877
08/10 C-XSU-3P-002	1.000	1.000	1.000	2.377
08/10 C-XSU-3P-003	1.000	1.000	1.000	2.877
08/10 C-XSU-3P-004	1.377	1.000	1.000	1.877
08/10 C-XSU-3P-005	1.377	1.000	1.000	2.377
08/10 C-XSU-3P-006	1.377	1.000	1.000	2.877

CAN BE ORDERED IN ANY COMBINATION OF 1.00, 1.377, 1.877, 2.377, OR 2.877.

ORDERING EXAMPLES:

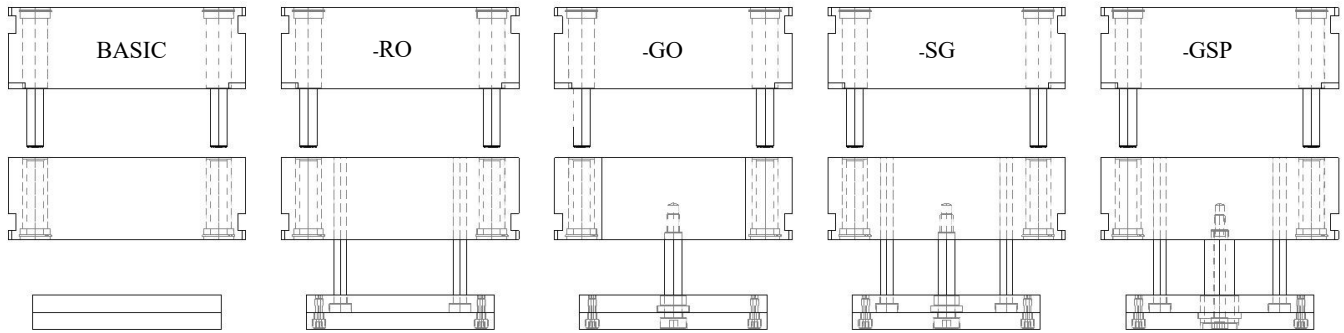
08/10 C-XSU-3P-005
08/10 C-XSU-3P-001
08/10 C-XSU-3P-003

CUSTOM ORDER EXAMPLES:

08/10 C-XSU-3P	08/10 C-XSU-3P
A1 1.877	A1 1.377
A2 1.250	A2 1.877
A3 1.377	A3 1.000
B2 1.627	B 2.377
B 2.377	

84/90 C-XSU SOLID INSERT

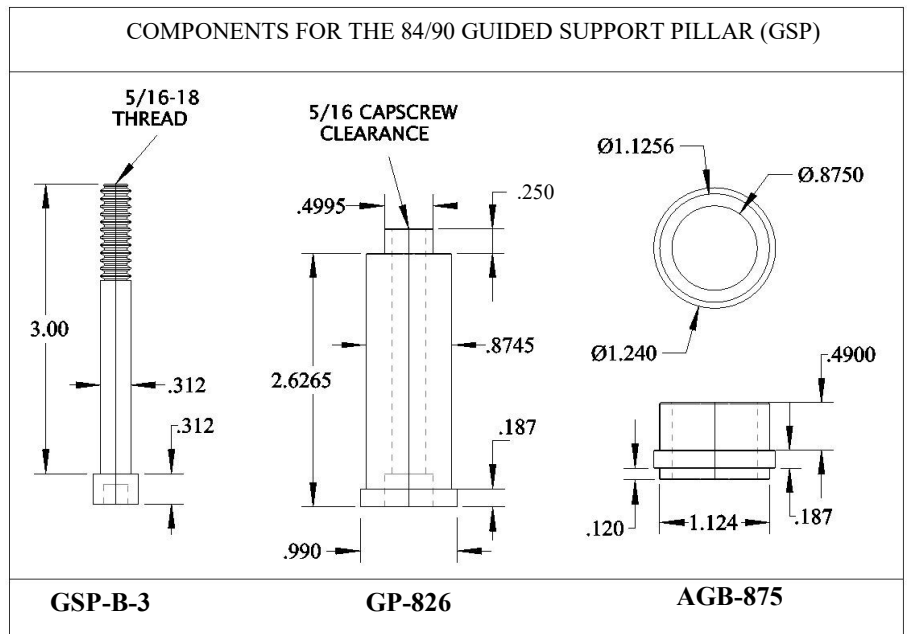
DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM



ORDERING EXAMPLES:
84/90 C-XSU 224-RO
84/90 C-XSU-227-GSP
84/90 C-XSU-230-SG

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

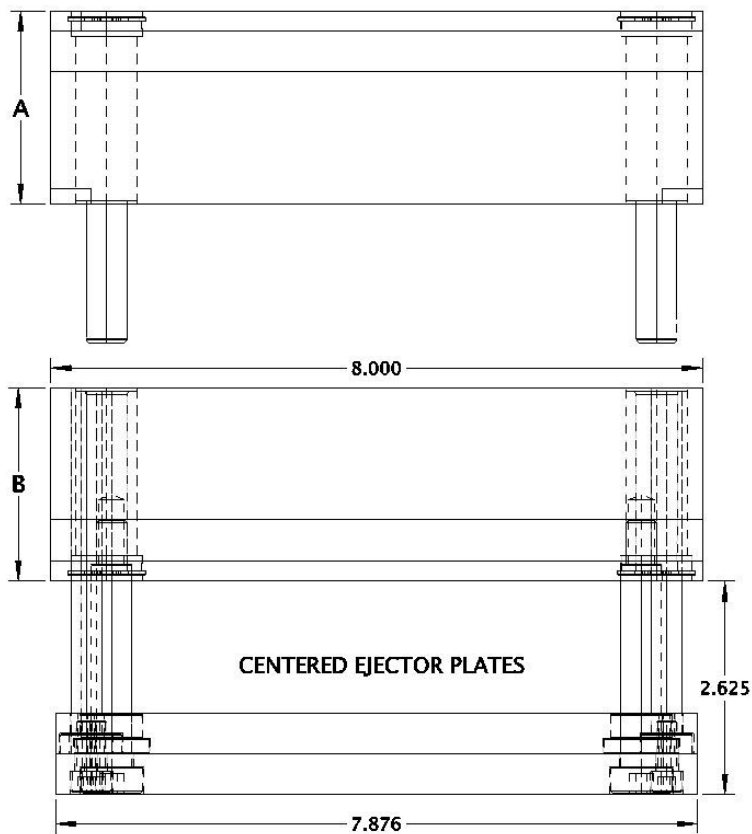
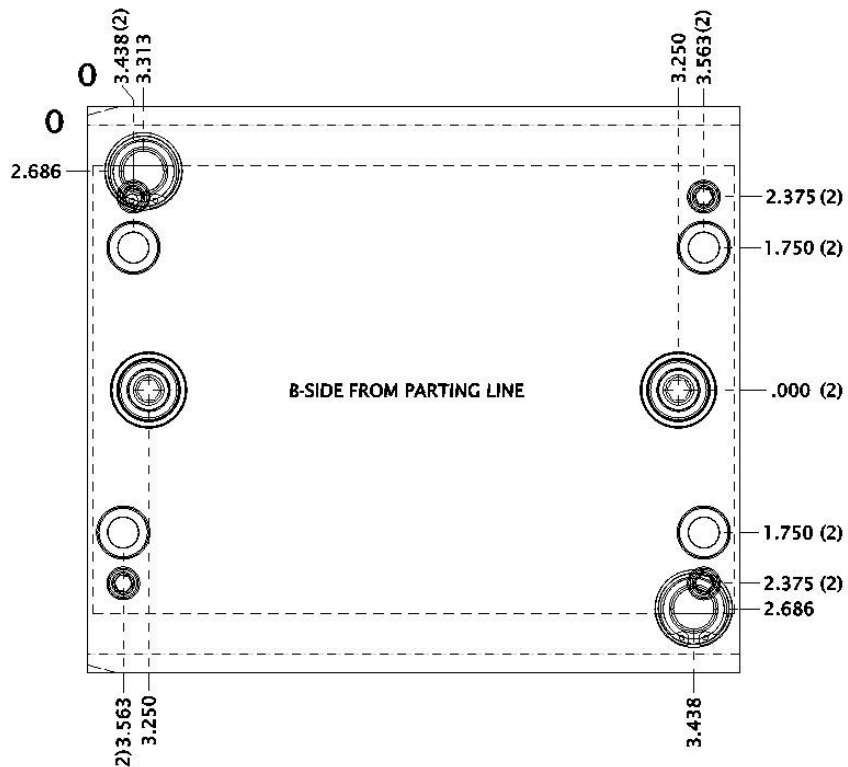
CATALOG NUMBER	A	B
BASIC		
84/90 C-XSU-224	1.877	1.877
84/90 C-XSU-225	1.877	2.377
84/90 C-XSU-226	2.377	1.877
84/90 C-XSU-227	2.377	2.377
84/90 C-XSU-228	2.377	2.877
84/90 C-XSU-229	2.877	2.377
84/90 C-XSU-230	2.877	2.877



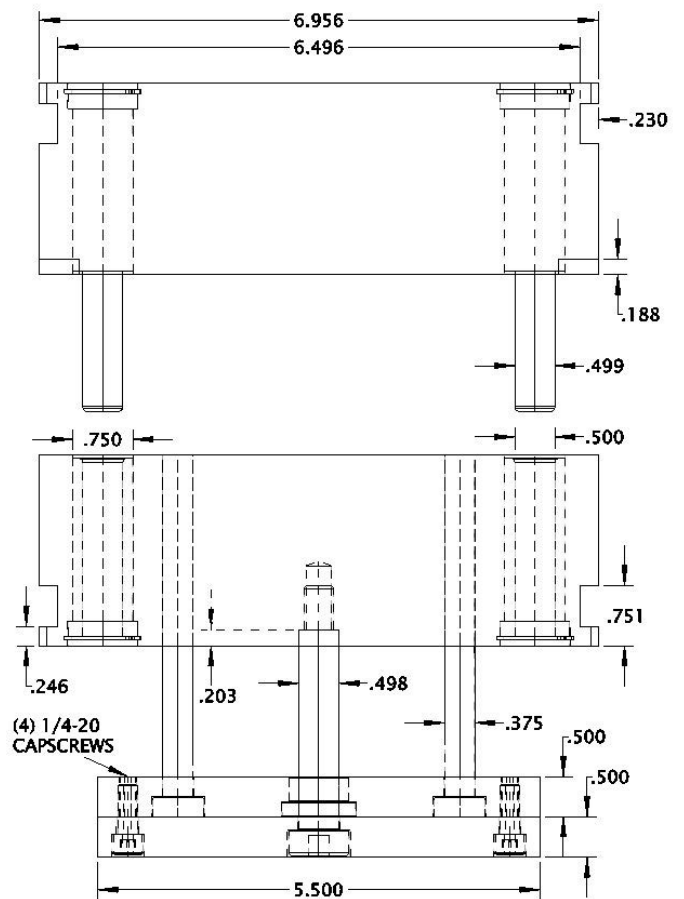
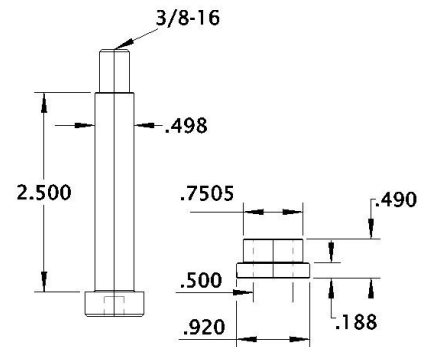
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

84/90 C-XSU 6.5 X 8.0 FITS 84/90 U-FRAME

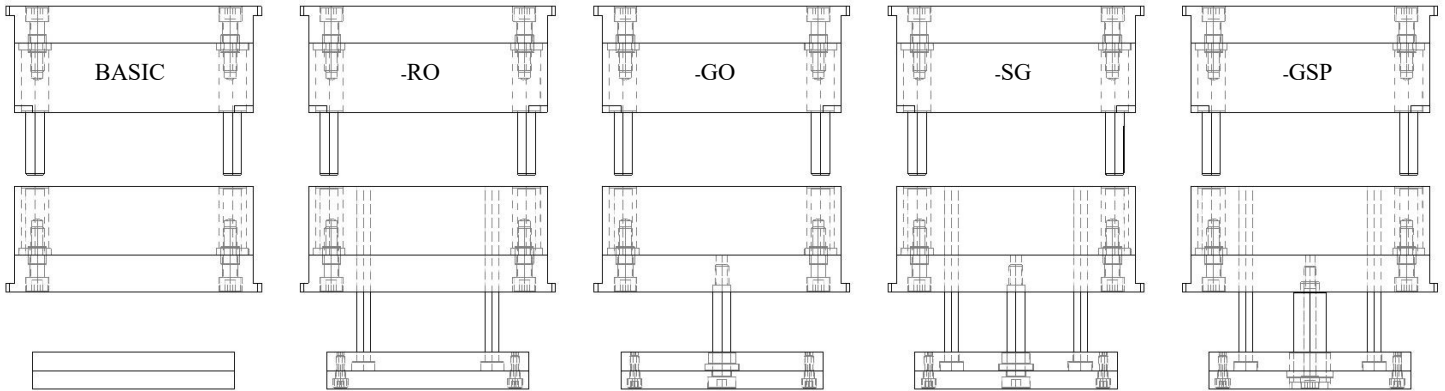


SIMPLE GUIDED



84/90 C-SLU LAMINATED INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM

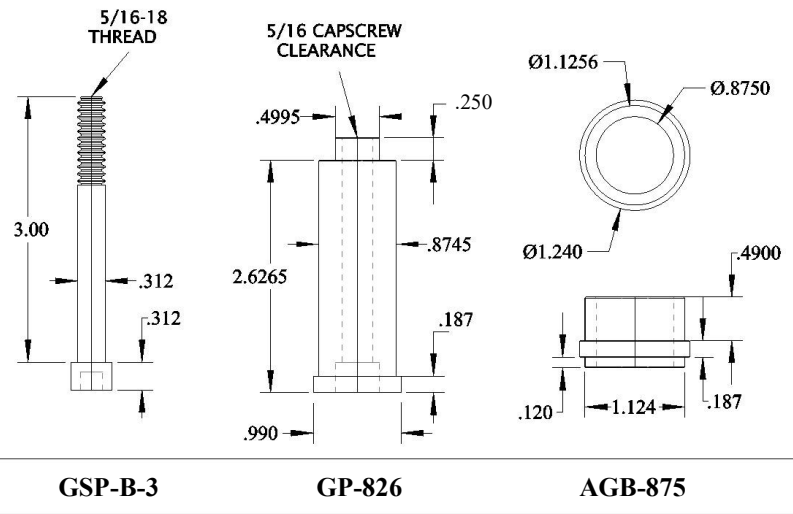


ORDERING EXAMPLES:

84/90 C-SLU-284-RO 84/90 C-SLU-287-GSP
84/90 C-SLU-290 84/90 C-SLU-287-SG

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

COMPONENTS FOR THE 84/90 GUIDED SUPPORT PILLAR(GSP)



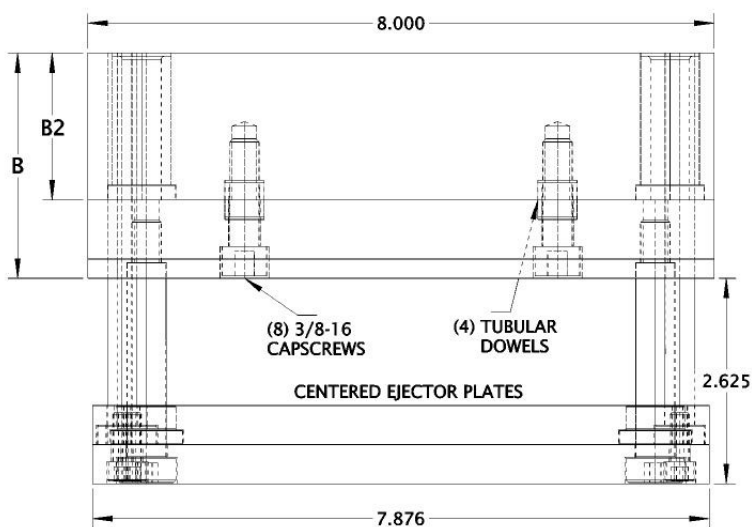
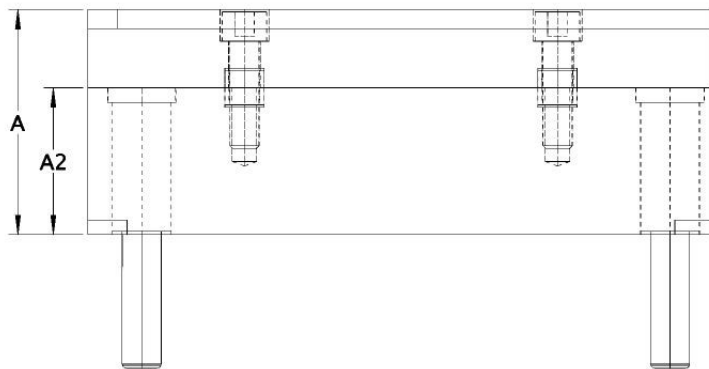
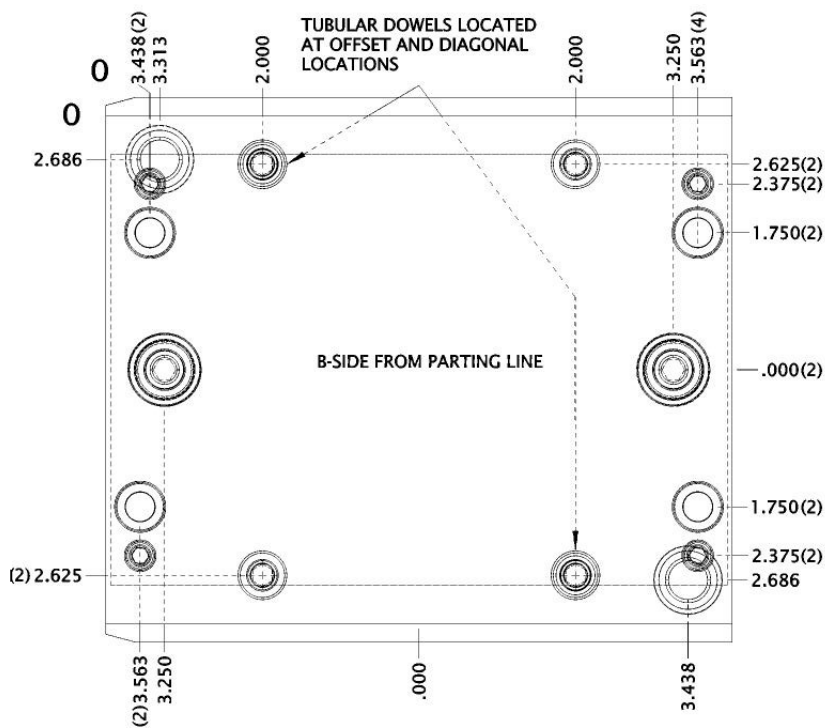
CATALOG NUMBER	A	A2	B2	B
BASIC				
84/90 C-SLU-284	2.377	1.377	1.377	2.377
84/90 C-SLU-285	2.377	1.377	1.877	2.877
84/90 C-SLU-286	2.877	1.877	1.377	2.377
84/90 C-SLU-287	2.877	1.877	1.877	2.877
84/90 C-SLU-288	2.877	1.877	2.377	3.377
84/90 C-SLU-289	3.377	2.377	1.877	2.877
84/90 C-SLU-290	3.377	2.377	2.377	3.377

NOTE: THE C-SLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

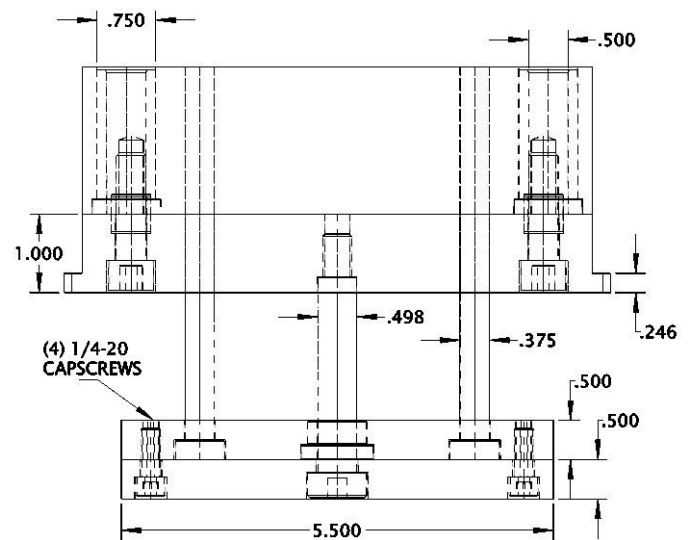
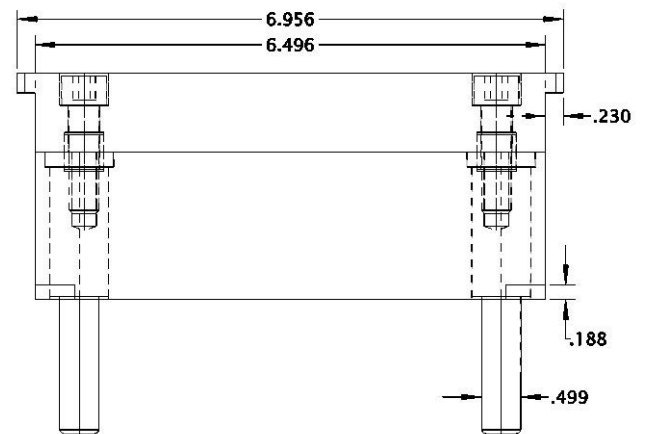
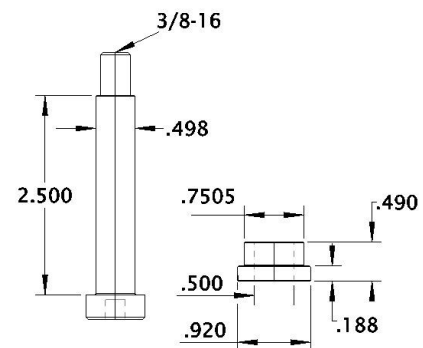
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

84/90 C-SLU 6.5 X 8.0 FITS 84/90 U-FRAME

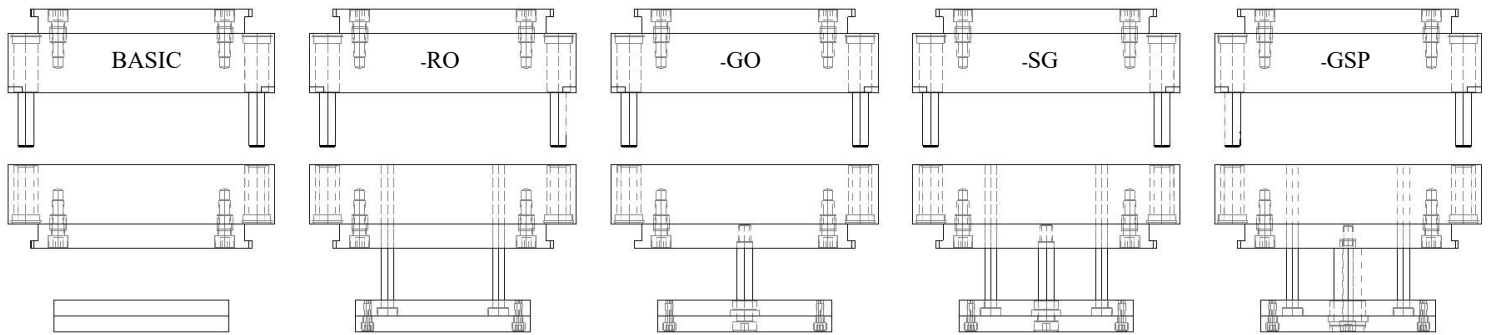


SIMPLE GUIDED



84/90 C-TLU LAMINATED T-STYLE

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM



ORDERING EXAMPLES:

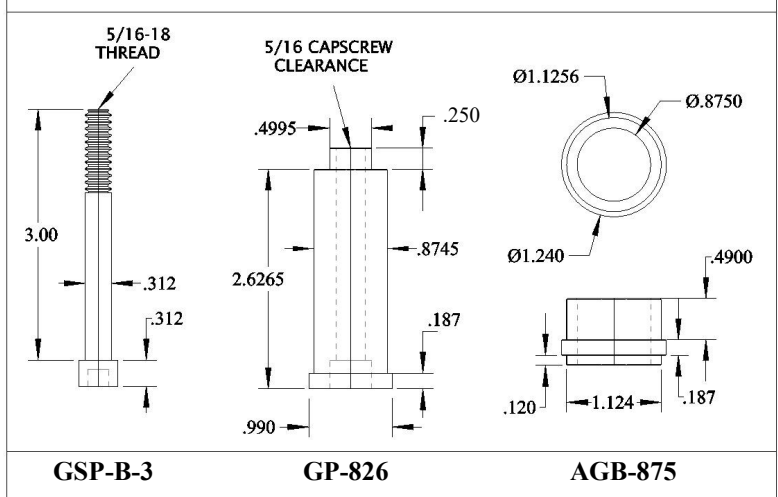
84/90 C-TLU-002-RO 84/90 C-TLU-004-GSP
84/90 C-TLU-004-SG 84/90 C-TLU-006-GO
84/90 C-TLU-003

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

NOTE: NEW SIZES

CATALOG NUMBER BASIC	A	A2	B2	B
84/90 C-TLU-001	2.127	1.377	1.377	2.127
84/90 C-TLU-002	2.127	1.377	1.877	2.627
84/90 C-TLU-003 (TLU 207)	2.627	1.877	1.877	2.627
84/90 C-TLU-004	2.627	1.877	2.377	3.127
84/90 C-TLU-005	3.127	2.377	1.877	2.627
84/90 C-TLU-006	3.127	2.377	2.377	3.127

COMPONENTS FOR THE 84/90 GUIDED SUPPORT PILLAR(GSP)



NOTE: THE C-TLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

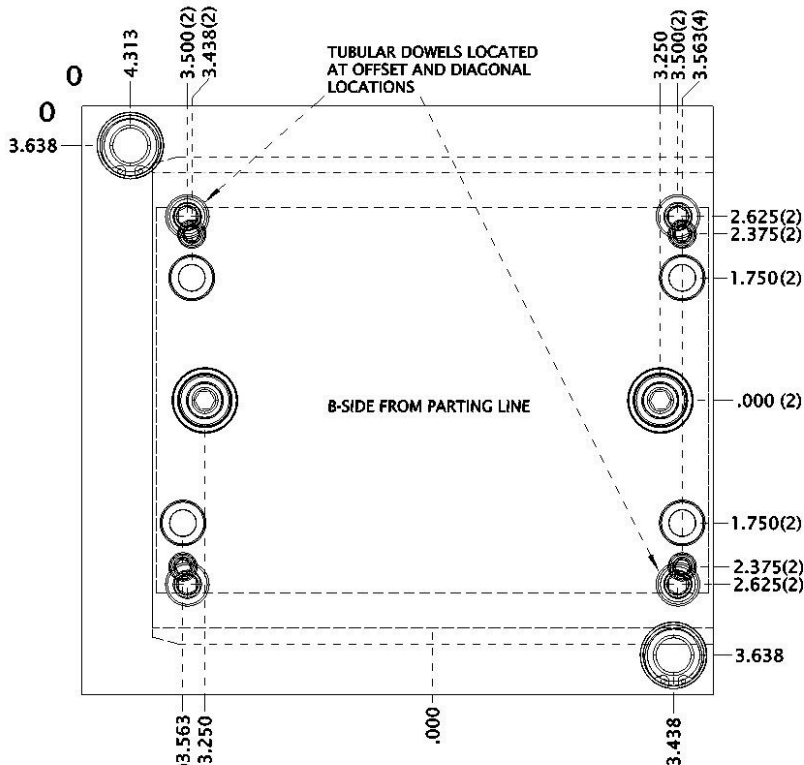
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

84/90 C-TLU

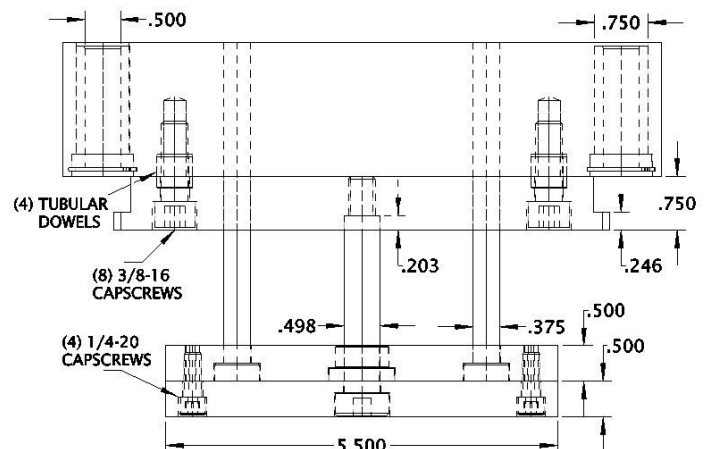
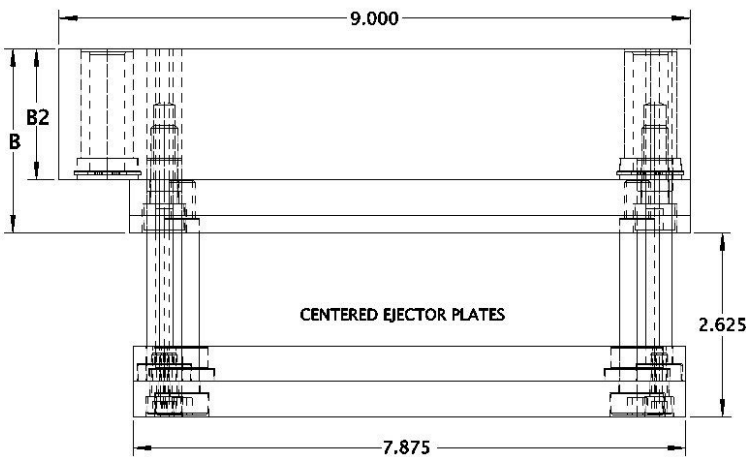
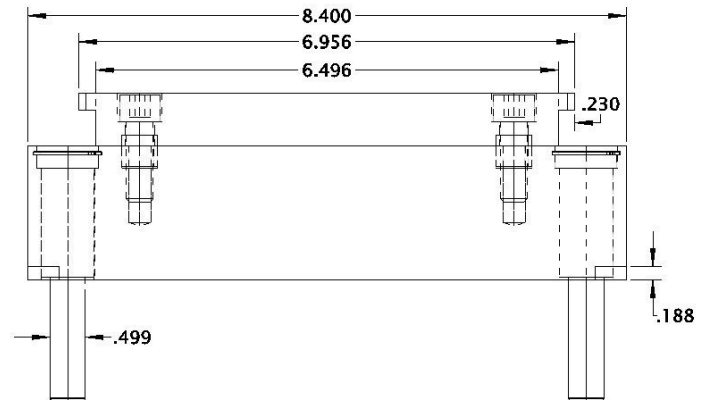
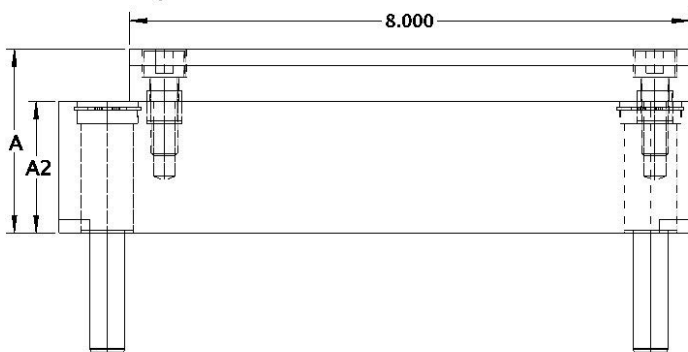
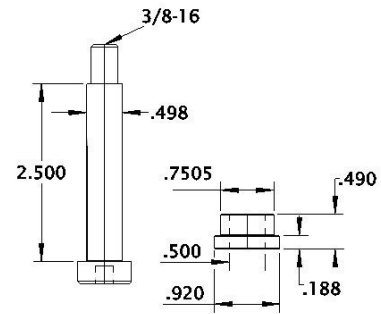
6.5 X 8.0 EAR PLATE
8.4 X 9.0 T-PLATE

FITS 84/90 U-FRAME

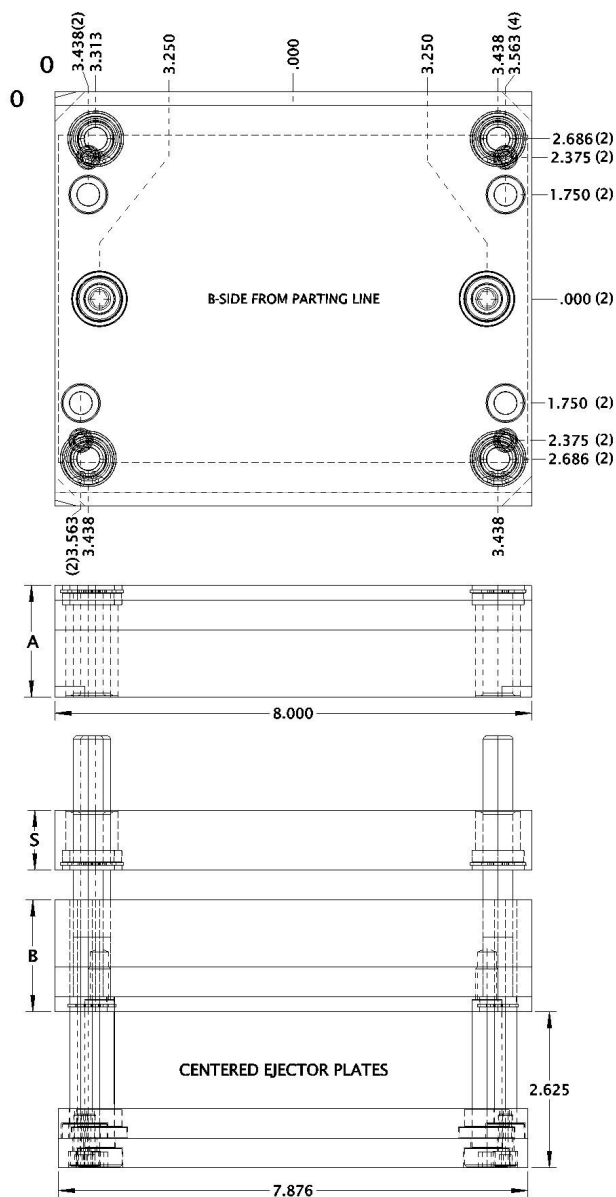


All C-TLU'S can be modified in length and width to accommodate cams or waterlines. Leader Pin locations can be moved, or 2 more Leader Pins can be added for an additional cost. All ear-plate and ejector locations will stay in the same position.

SIMPLE GUIDED



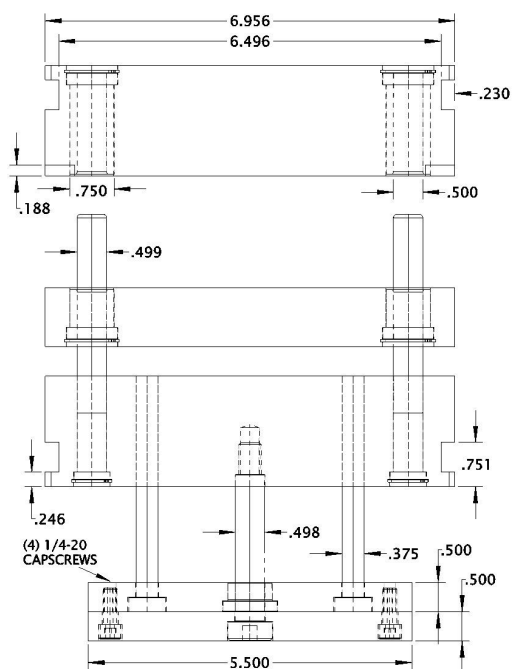
84/90 C-XSU-S STRIPPER PLATE INSERT 6.5 X 8.0 FITS 84/90 U-FRAME



SHOWN AS SIMPLE GUIDED WITH 4 STRAIGHT LEADER PINS.

YOUR CHOICES INCLUDE:

- * 2 STANDARD LOCATED LEADER PINS (OPTIONAL)
- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES (SEE C-XSU PAGE 22)
- * ALSO AVAILABLE WITH A LAMINATED A-SIDE OR B-SIDE



ORDERING EXAMPLES:

84/90 C-XSU-S-005-1
84/90 C-XSU-S-001-1
84/90 C-XSU-S-003-1

CUSTOM ORDER EXAMPLES:

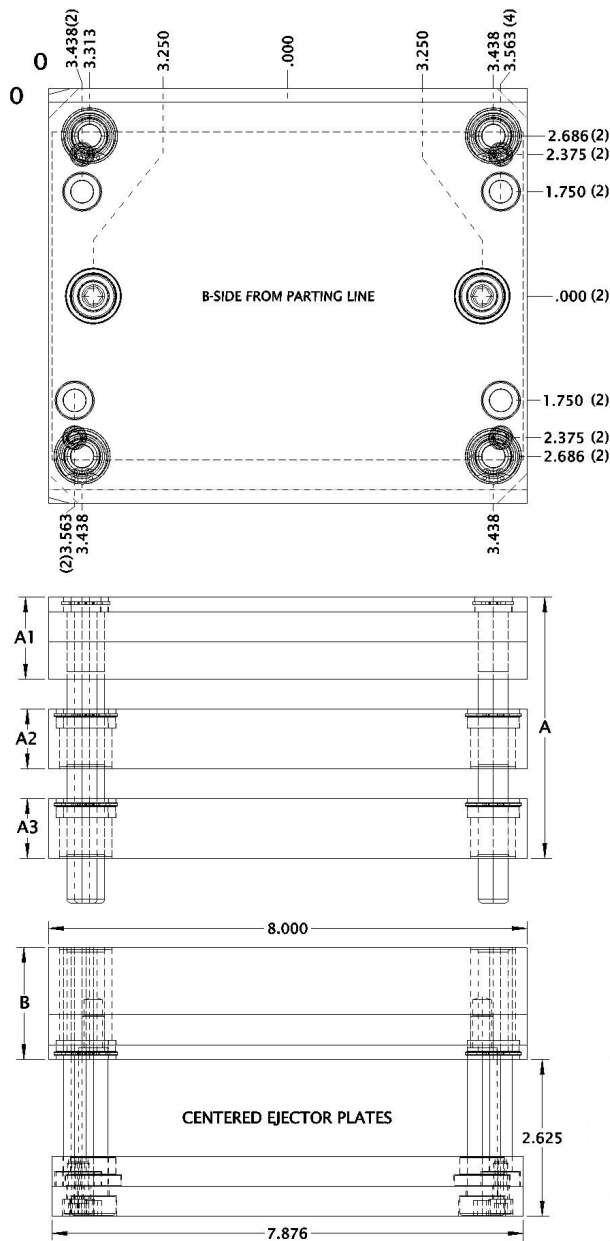
84/90 C-SLU-S 84/90 C-XSU-S-2HOLE
A 1.877 A 1.877
A2 1.125 S 0.750
S 1.000 B 2.377
B2 1.627
B 2.377

A-PLATES AND B-PLATES CAN BE ORDERED IN ANY COMBINATION OF 1.377, 1.877, 2.377, OR 2.877.

OTHER STRIPPER THICKNESSES ARE ALSO AVAILABLE

CATALOG NUMBER	A	B	S
84/90 C-XSU-S-001	1.877	1.377	1.000
84/90 C-XSU-S-002	1.877	1.877	1.000
84/90 C-XSU-S-003	1.877	2.377	1.000
84/90 C-XSU-S-004	2.377	1.877	1.000
84/90 C-XSU-S-005	2.377	2.377	1.000
84/90 C-XSU-S-006	2.877	2.377	1.000

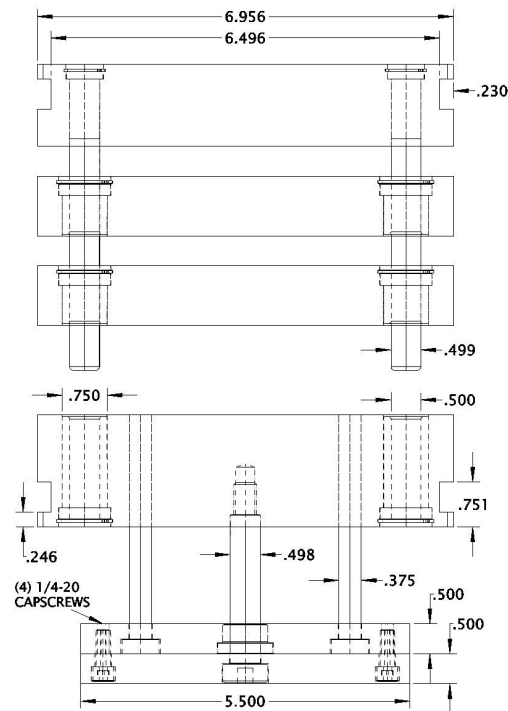
84/90 C-XSU-3P 3 PLATE INSERT 6.5 X 8.0 FITS 84/90 U-FRAME



SHOWN AS SIMPLE GUIDED WITH 4 STRAIGHT LEADER PINS.

YOUR CHOICES INCLUDE:

- * 2 STANDARD LOCATED LEADER PINS (OPTIONAL)
- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES (SEE C-XSU PAGE 22)
- * ALSO AVAILABLE WITH A LAMINATED B-SIDE



CATALOG NUMBER *CUSTOMIZABLE	A1	A2	A3	B
84/90 C-XSU-3P-001	1.000	1.000	1.000	1.877
84/90 C-XSU-3P-002	1.000	1.000	1.000	2.377
84/90 C-XSU-3P-003	1.000	1.000	1.000	2.877
84/90 C-XSU-3P-004	1.377	1.000	1.000	1.877
84/90 C-XSU-3P-005	1.377	1.000	1.000	2.377
84/90 C-XSU-3P-006	1.377	1.000	1.000	2.877

*CAN BE ORDERED IN ANY COMBINATION OF 1.00, 1.377, 1.877, 2.377, OR 2.877.

ORDERING EXAMPLES:

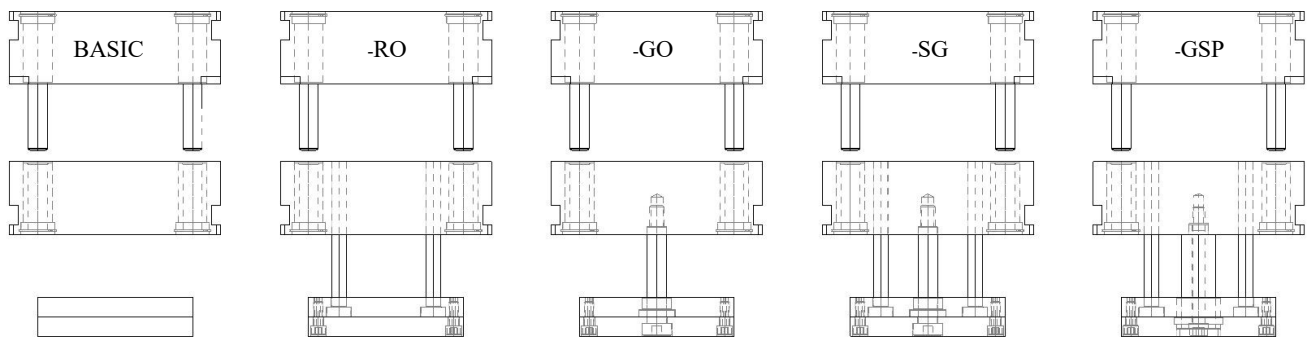
84/90 C-XSU-3P-005
84/90 C-XSU-3P-001
84/90 C-XSU-3P-003

CUSTOM ORDER EXAMPLES:

84/90 C-XSU-3P	84/90 C-XSU-3P
A1 1.877	A1 1.377
A2 1.250	A2 1.877
A3 1.377	A3 1.000
B2 1.627	B 2.377
B 2.377	

10/12 C-XSU SOLID INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM

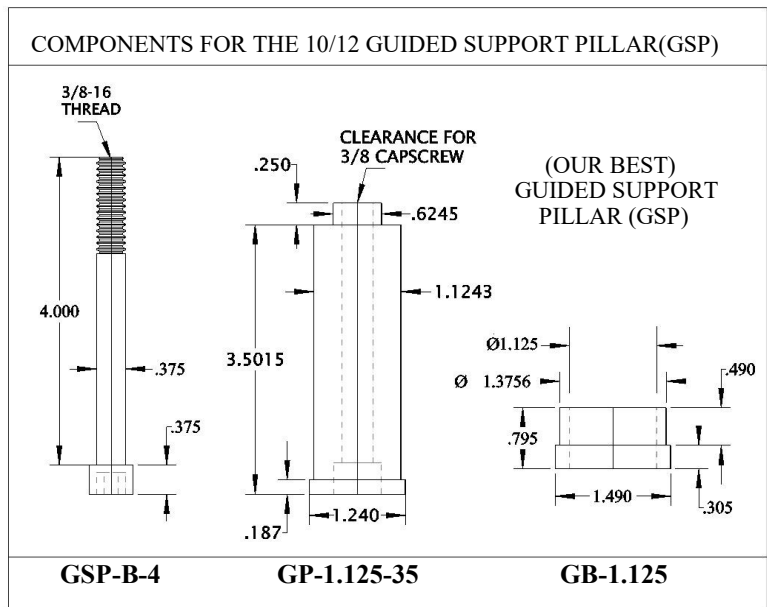


THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

ORDERING EXAMPLES:

10/12 C-XSU-225-RO 10/12 C-XSU-229-GSP

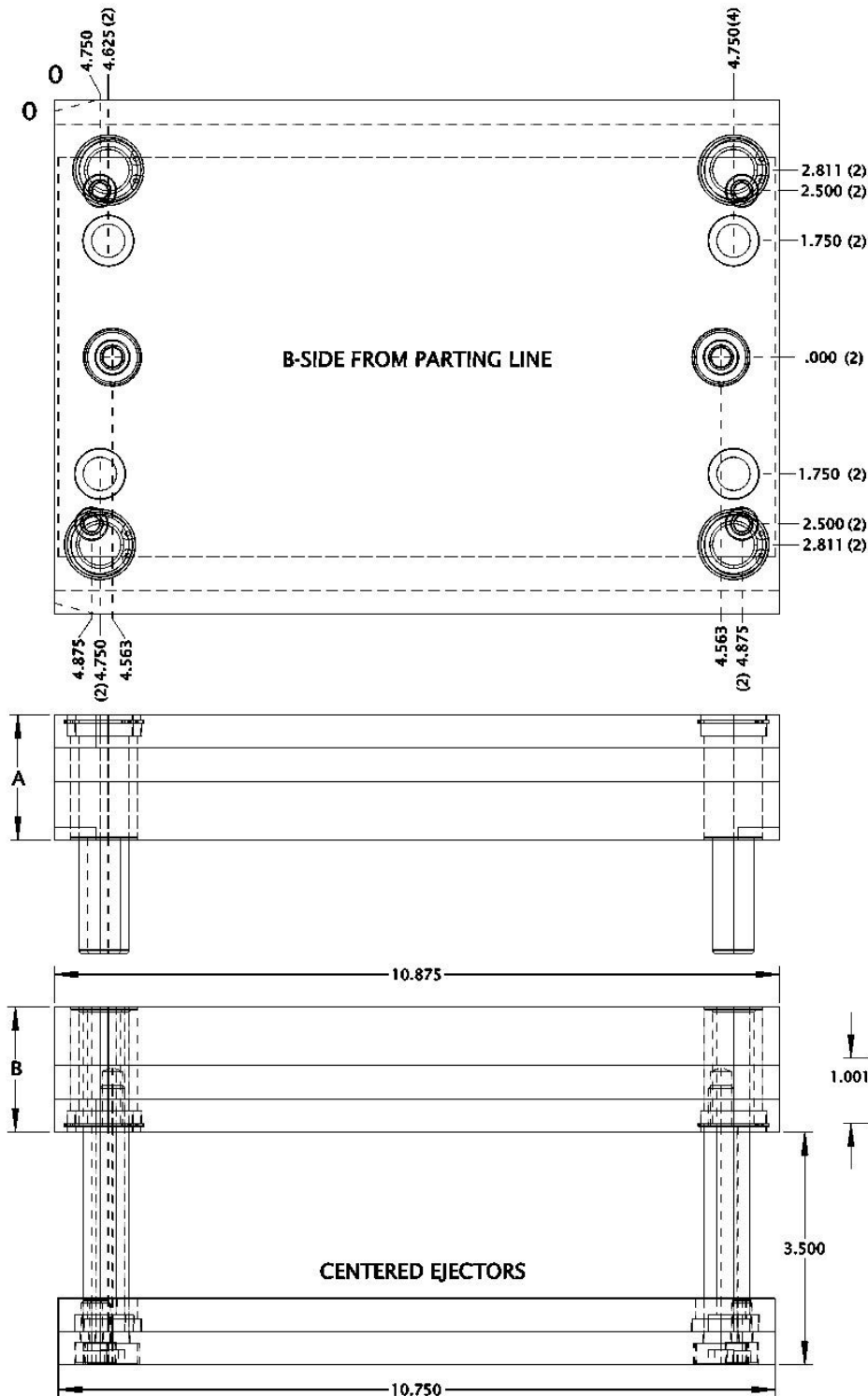
CATALOG NUMBER BASIC	A	B
10/12 C-XSU-224	1.877	1.877
10/12 C-XSU-225	1.877	2.377
10/12 C-XSU-226	2.377	1.877
10/12 C-XSU-227	2.377	2.377
10/12 C-XSU-228	2.377	2.877
10/12 C-XSU-229	2.877	2.377
10/12 C-XSU-230	2.877	2.877



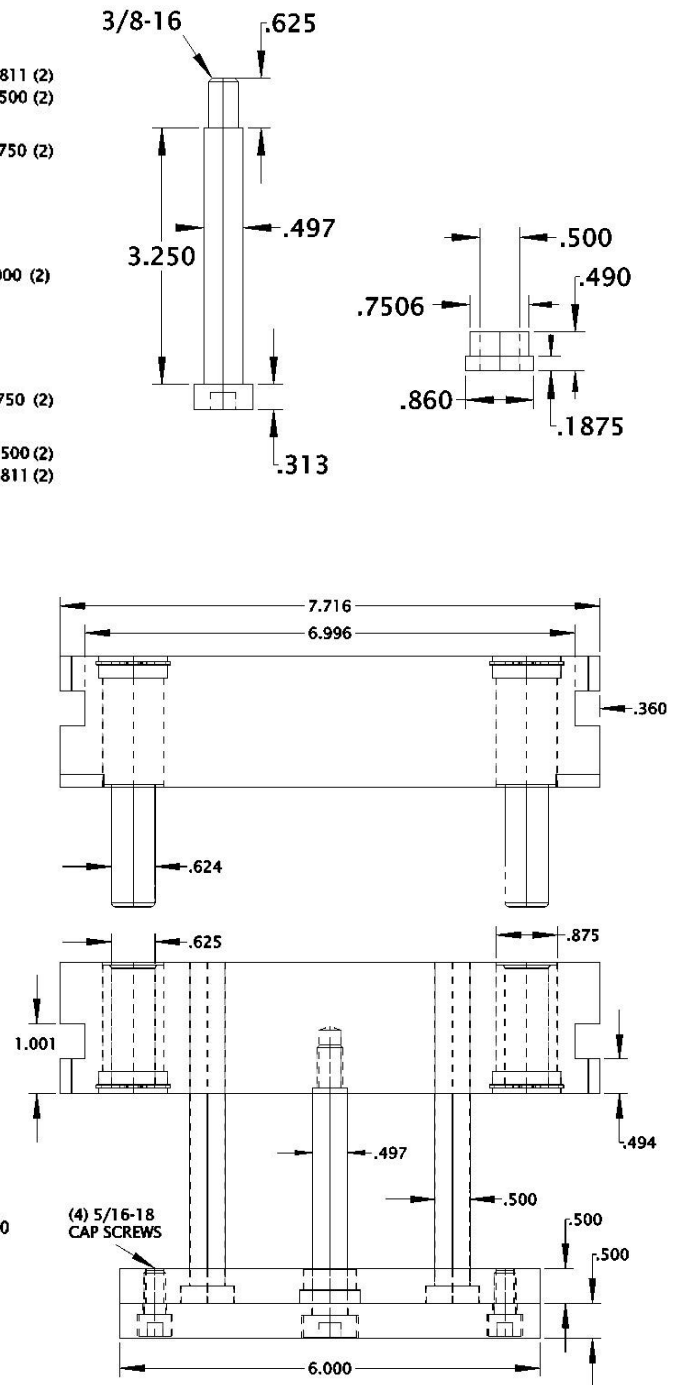
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

10/12 C-XSU 7.0 X 10.9 FITS 10/12 U-FRAME

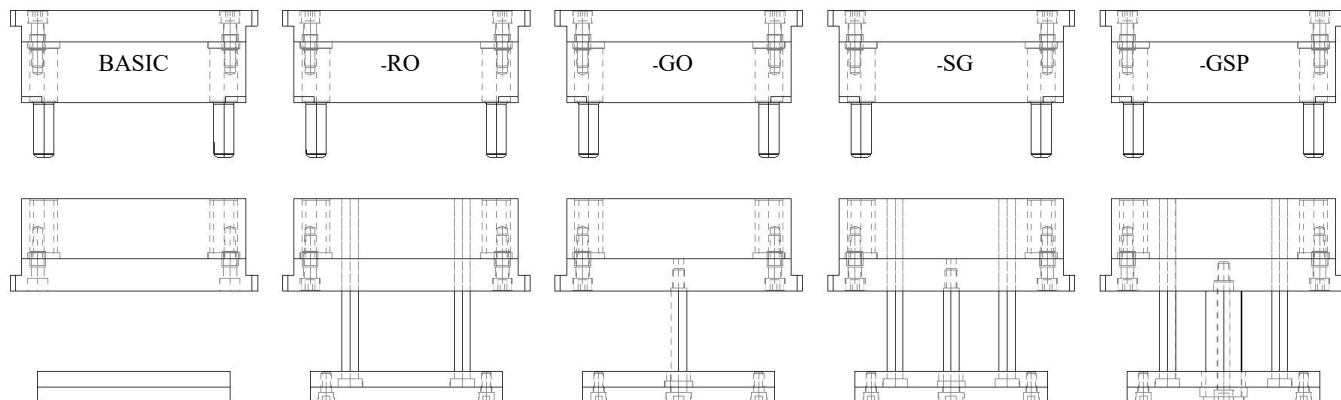


SIMPLE GUIDED



10/12 C-SLU LAMINATED INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM



ORDERING EXAMPLES:

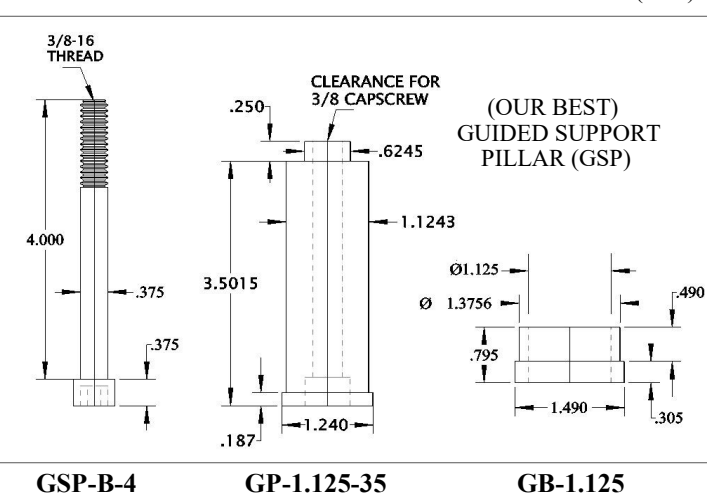
10/12 C-SLU-286-RO 10/12 C-SLU-287-GSP

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

NOTE: NEW SIZES

CATALOG NUMBER BASIC	A	A2	B2	B
10/12 C-SLU-285	2.377	1.377	1.377	2.377
10/12 C-SLU-286	2.377	1.377	1.877	2.877
10/12 C-SLU-288	2.877	1.877	1.377	2.377
10/12 C-SLU-289	2.877	1.877	1.877	2.877
10/12 C-SLU-290	2.877	1.877	2.377	3.377
10/12 C-SLU-291	3.377	2.377	1.877	2.877
10/12 C-SLU-292	3.377	2.377	2.377	3.377

COMPONENTS FOR THE 10/12 GUIDED SUPPORT PILLAR(GSP)

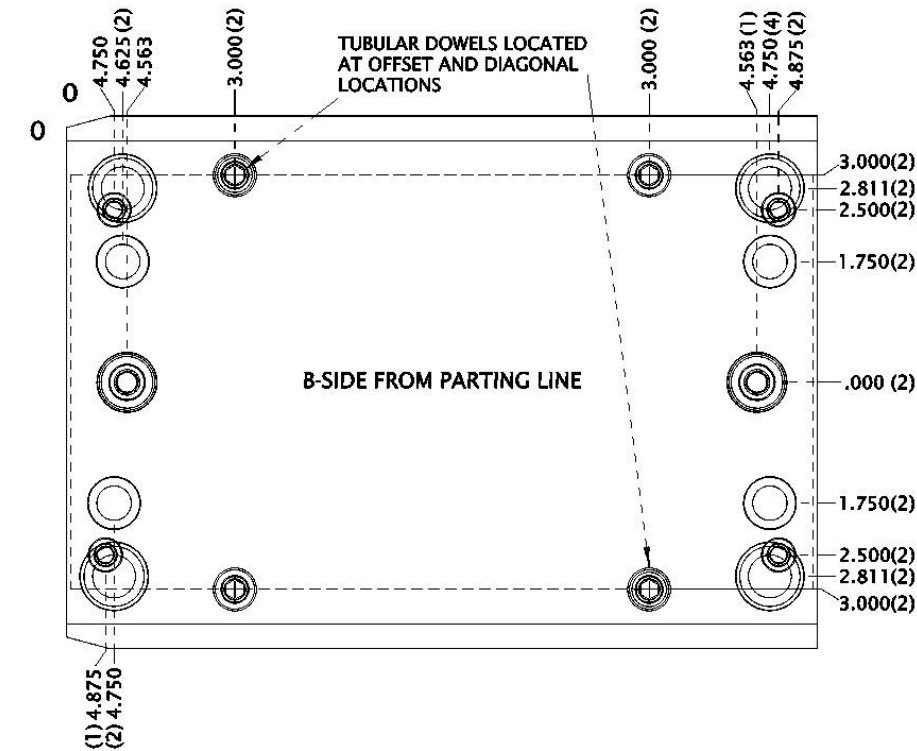


NOTE: THE C-SLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

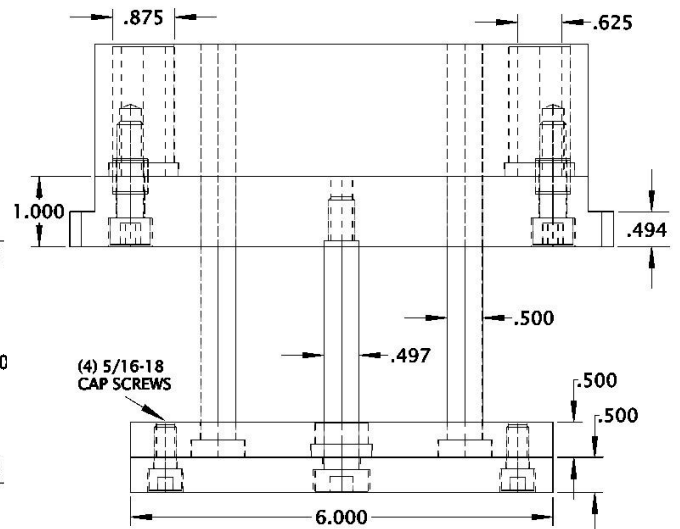
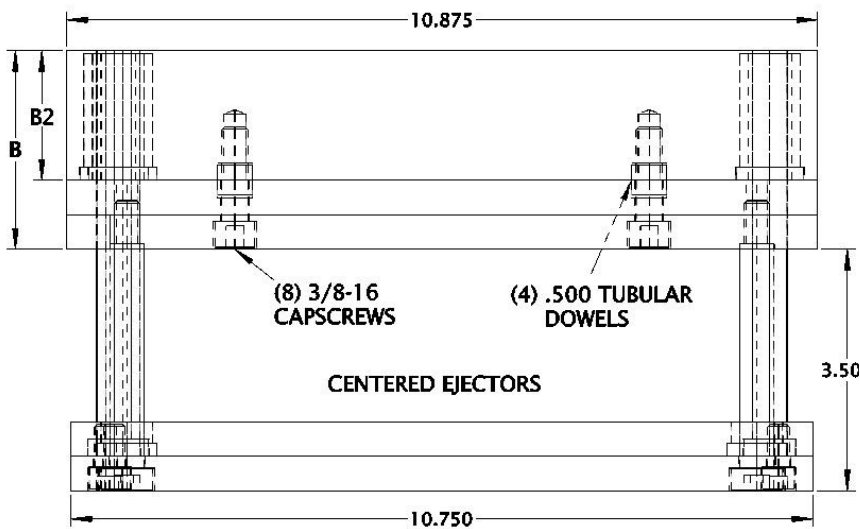
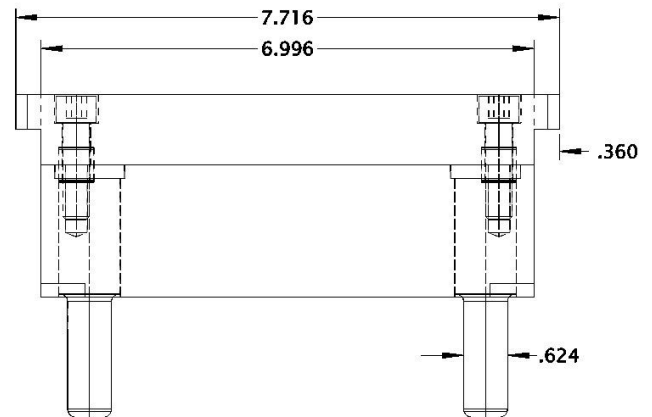
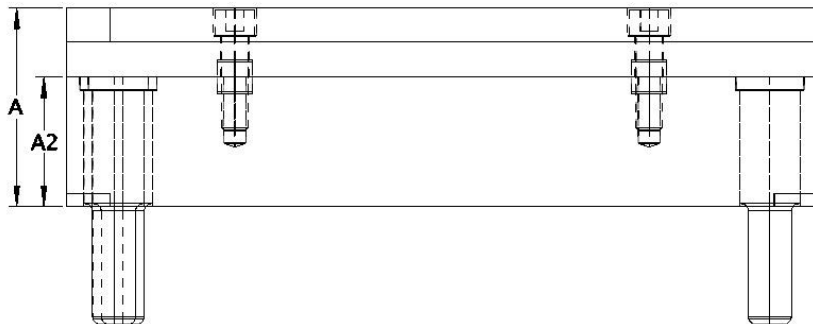
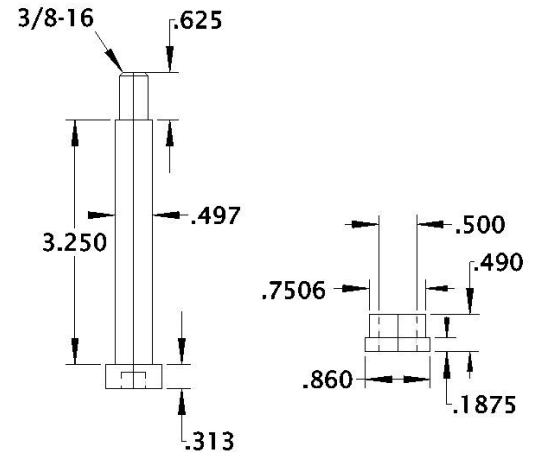
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

10/12 C-SLU 7.0 X 10.9 FITS 10/12 U-FRAME

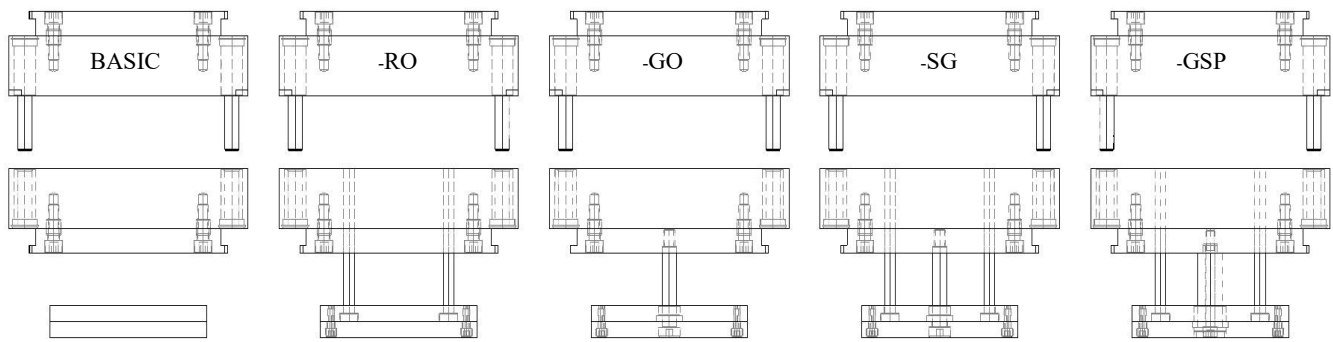


SIMPLE GUIDED



10/12 C-TLU LAMINATED T-STYLE

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSTOOL.COM

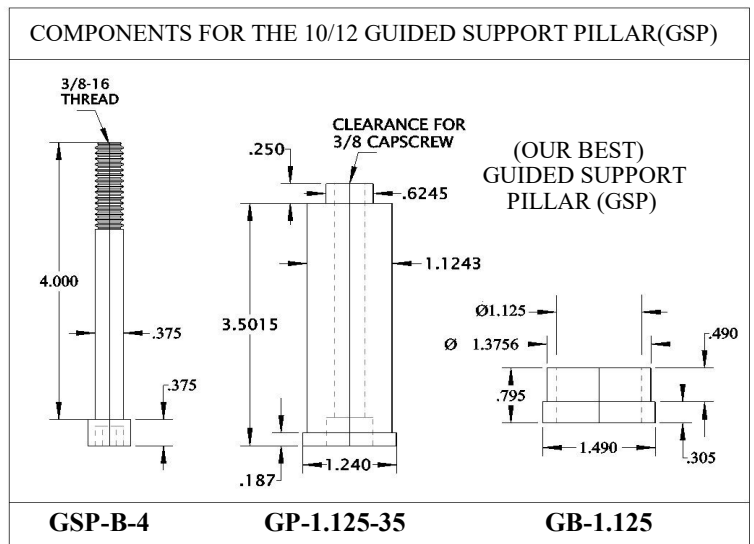


ORDERING EXAMPLES:

10/12 C-TLU-207-RO 10/12 C-TLU-204-GSP
10/12 C-TLU-210-SG 10/12 C-TLU-206-GO

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

CATALOG NUMBER BASIC	A	A2	B2	B
10/12 C-TLU-204	2.377	1.377	1.377	2.377
10/12 C-TLU-205	2.377	1.377	1.877	2.877
10/12 C-TLU-206	2.877	1.877	1.377	2.377
10/12 C-TLU-207	2.877	1.877	1.877	2.877
10/12 C-TLU-208	2.877	1.877	2.377	3.377
10/12 C-TLU-209	3.377	2.377	1.877	2.877
10/12 C-TLU-210	3.377	2.377	2.377	3.377



NOTE: THE C-TLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

ADDITIONAL OPTIONS:

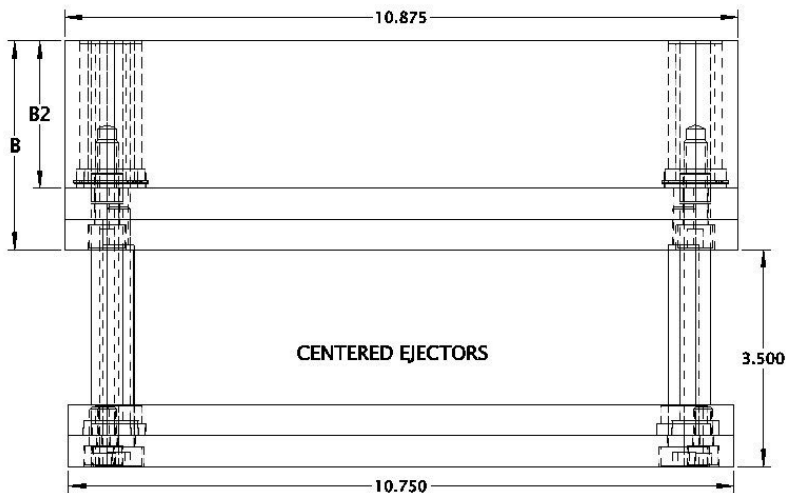
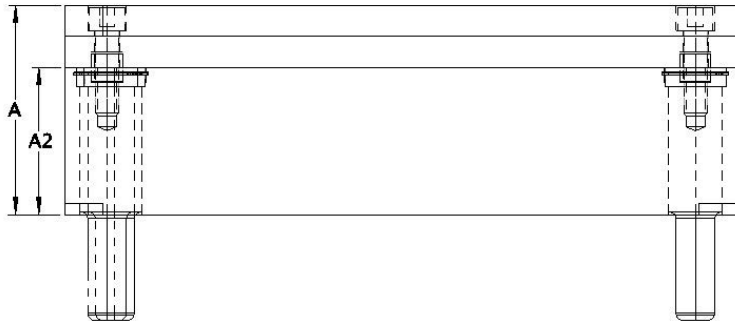
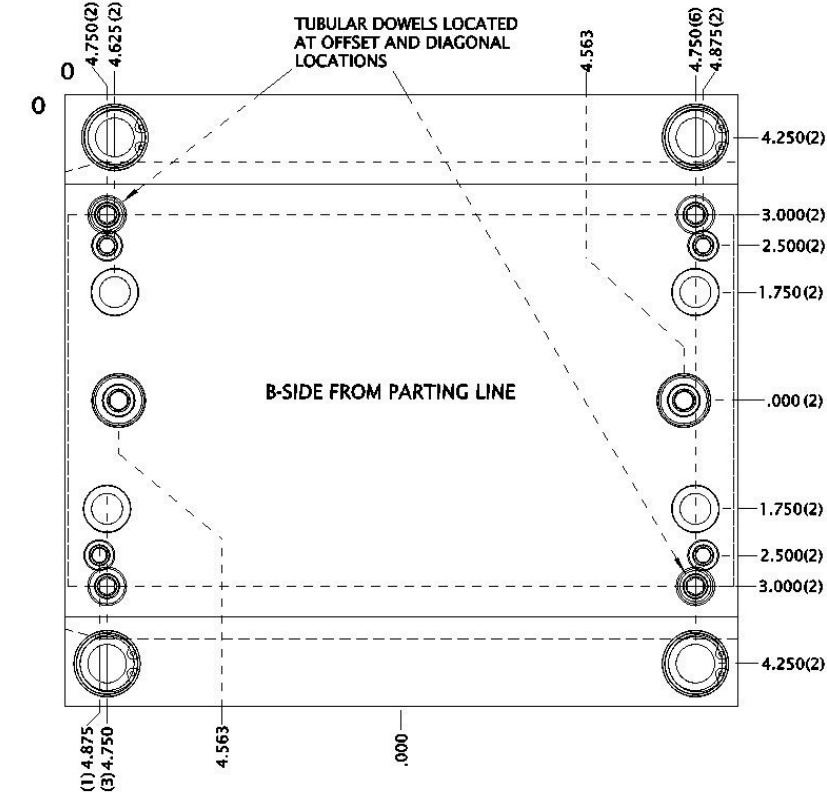
- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

10/12 C-TLU

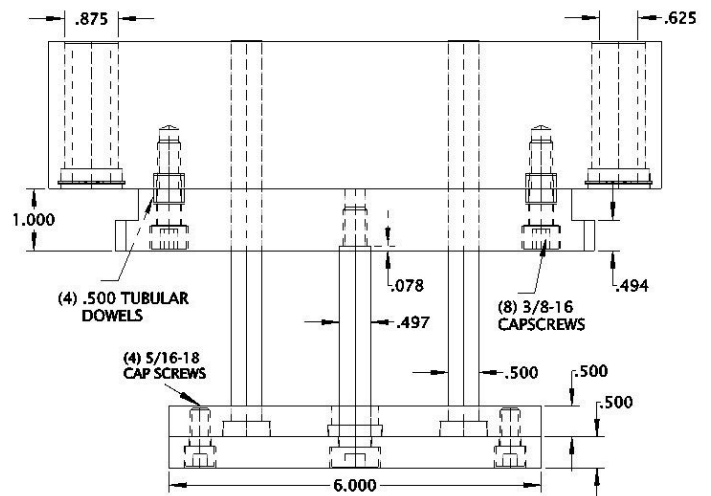
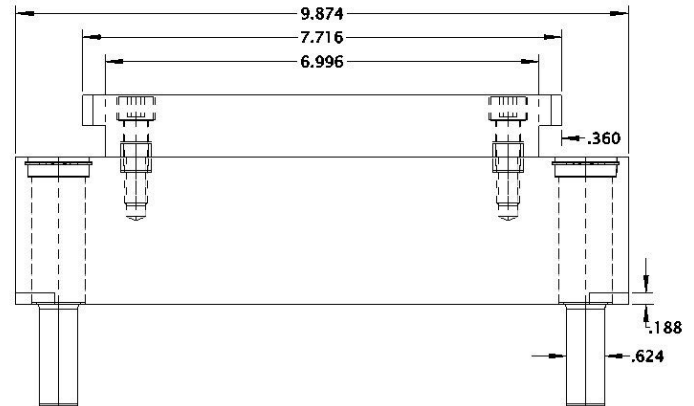
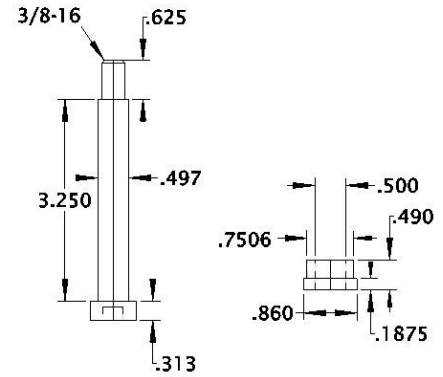
7.0 X 10.9 EAR PLATE
9.9 X 10.9 T-PLATE

FITS 10/12 U-FRAME

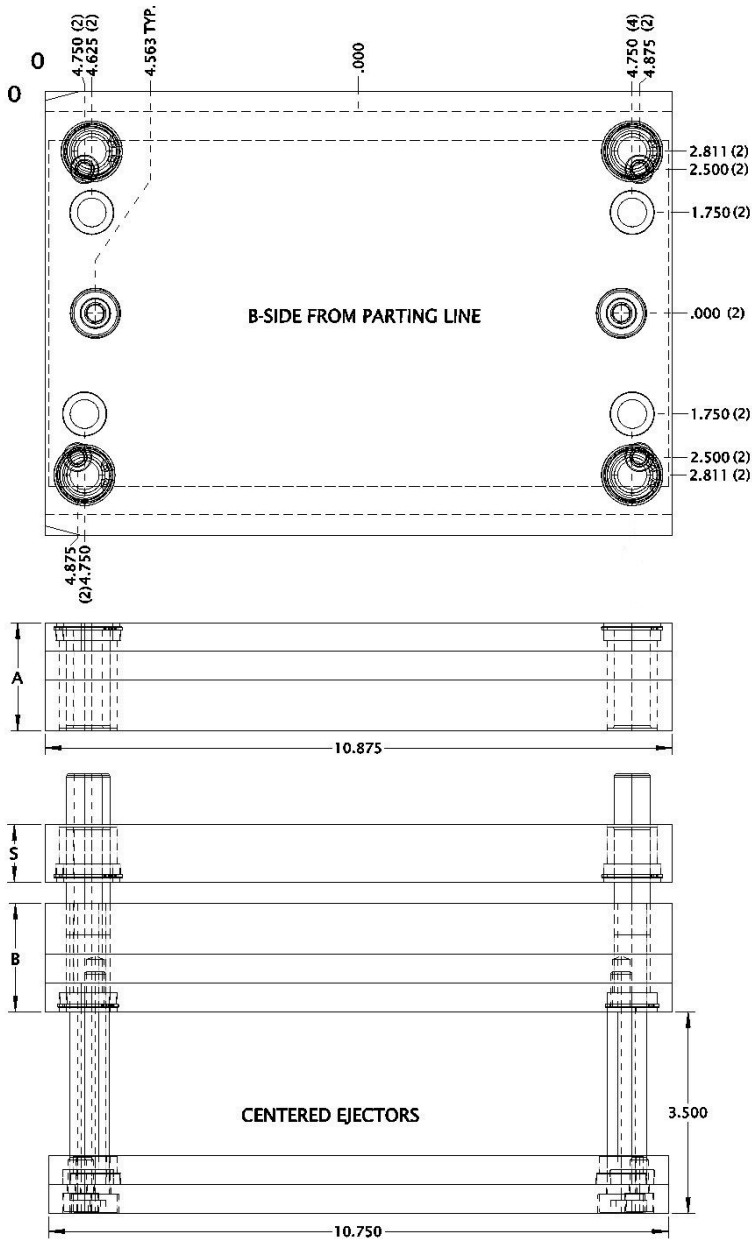
All C-TLU'S can be modified in length and width to accommodate cams or waterlines. Leader Pin locations can be moved. All ear-plate and ejector locations will stay in the same position.



SIMPLE GUIDED



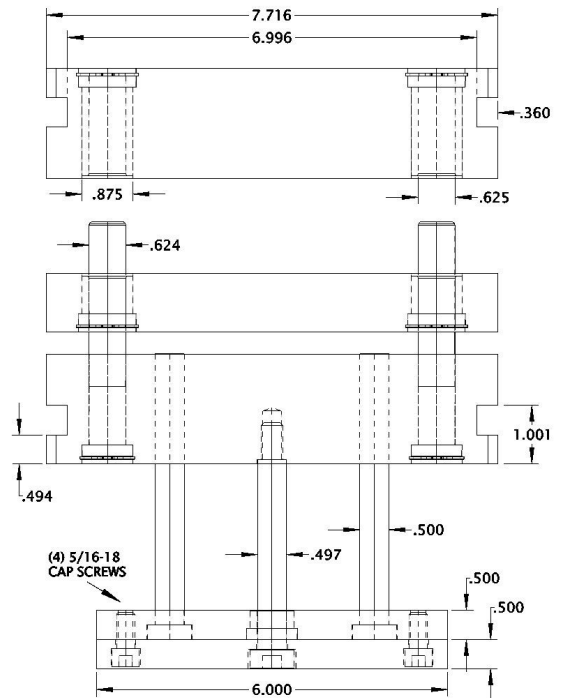
10/12 C-XSU-S STRIPPER PLATE INSERT 7.0 X 10.9 FITS 10/12 U-FRAME



YOUR CHOICES INCLUDE:

- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES (SEE C-XSU PAGE 30)
- * ALSO AVAILABLE WITH A LAMINATED B-SIDE

SHOWN WITH SIMPLE GUIDED EJECTION



ORDERING EXAMPLES:

10/12 C-XSU-S-005-1
10/12 C-XSU-S-001-1
10/12 C-XSU-S-003-1

CUSTOM ORDER EXAMPLES:

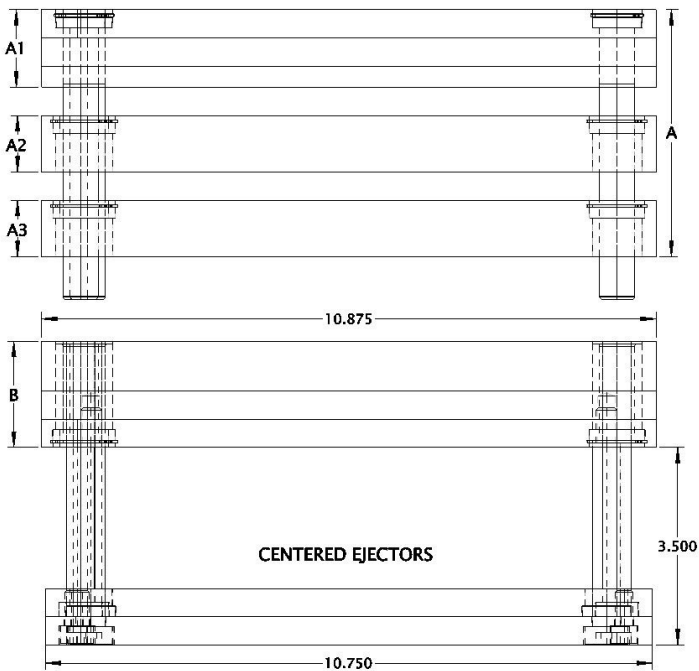
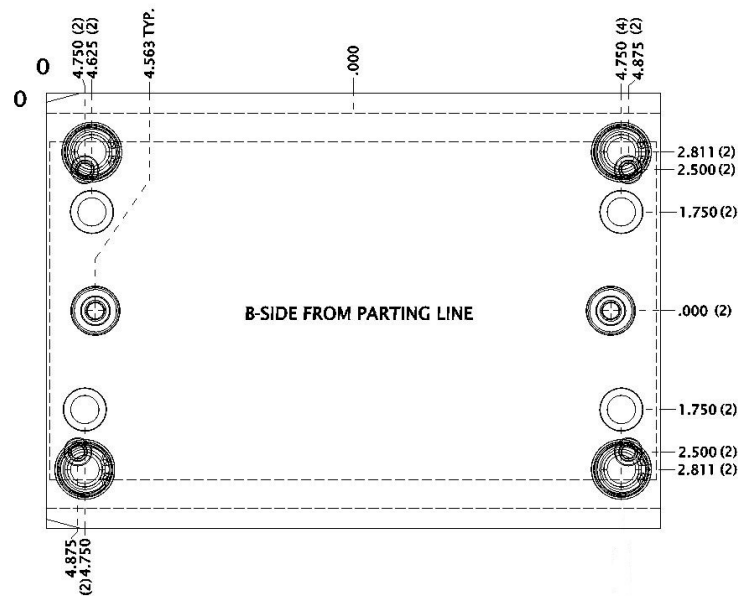
10/12 C-SLU-S 10/12 C-XSU-S-2HOLE
A 1.877 A 1.877
A2 1.125 S 0.750
S 1.000 B 2.377
B2 1.627
B 2.377

A-PLATES AND B-PLATES CAN BE ORDERED IN ANY COMBINATION OF 1.377, 1.877, 2.377, OR 2.877.

OTHER STRIPPER THICKNESSES ARE ALSO AVAILABLE

CATALOG NUMBER	A	B	S
10/12 C-XSU-S-001	1.877	1.377	1.000
10/12 C-XSU-S-002	1.877	1.877	1.000
10/12 C-XSU-S-003	1.877	2.377	1.000
10/12 C-XSU-S-004	2.377	1.877	1.000
10/12 C-XSU-S-005	2.377	2.377	1.000
10/12 C-XSU-S-006	2.877	2.377	1.000

10/12 C-XSU-3P 3 PLATE INSERT 7.0 X 10.9 FITS 10/12 U-FRAME



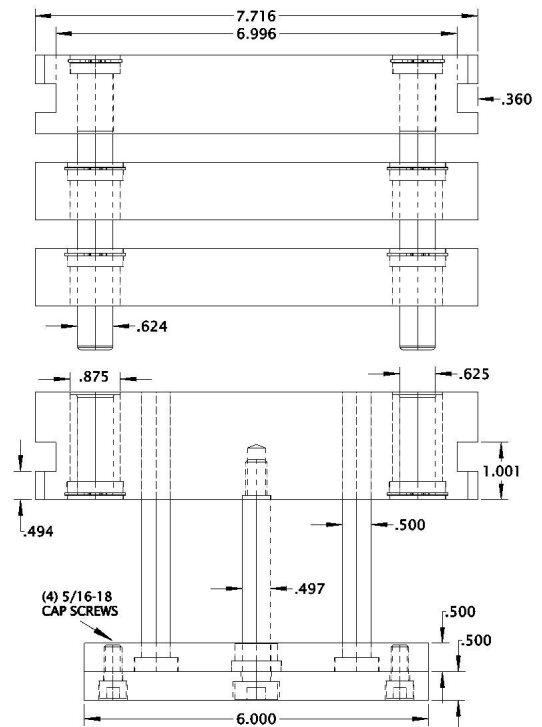
CATALOG NUMBER *CUSTOMIZABLE	A1	A2	A3	B
10/12 C-XSU-3P-001	1.000	1.000	1.000	1.877
10/12 C-XSU-3P-002	1.000	1.000	1.000	2.377
10/12 C-XSU-3P-003	1.000	1.000	1.000	2.877
10/12 C-XSU-3P-004	1.377	1.000	1.000	1.877
10/12 C-XSU-3P-005	1.377	1.000	1.000	2.377
10/12 C-XSU-3P-006	1.377	1.000	1.000	2.877

*CAN BE ORDERED IN ANY COMBINATION OF 1.00, 1.377, 1.877, 2.377, OR 2.877.

YOUR CHOICES INCLUDE:

- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES (SEE C-XSU PAGE 30)
- * ALSO AVAILABLE WITH A LAMINATED B-SIDE

SHOWN WITH SIMPLE GUIDED EJECTION



ORDERING EXAMPLES:

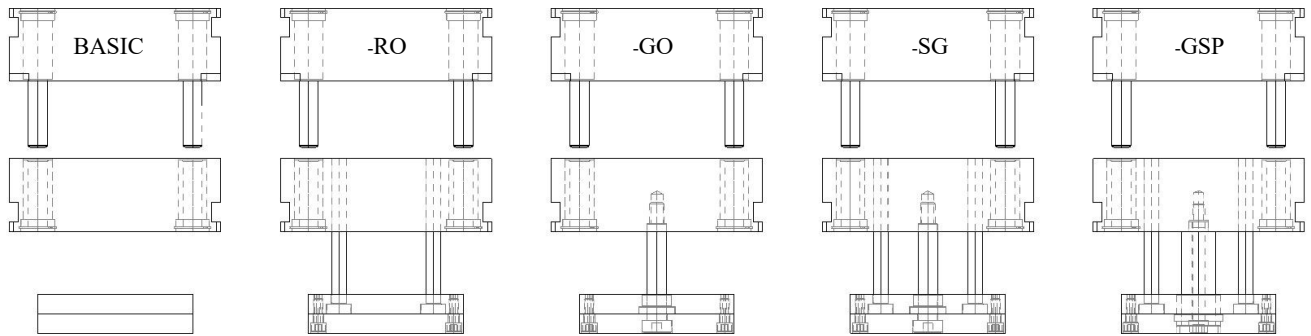
10/12 C-XSU-3P-005
10/12 C-XSU-3P-001
10/12 C-XSU-3P-003

CUSTOM ORDER EXAMPLES:

10/12 C-XSU-3P	10/12 C-XSU-3P
A1 1.877	A1 1.377
A2 1.250	A2 1.877
A3 1.377	A3 1.000
B2 1.627	B 2.377
B 2.377	

10/14 C-XSU SOLID INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM

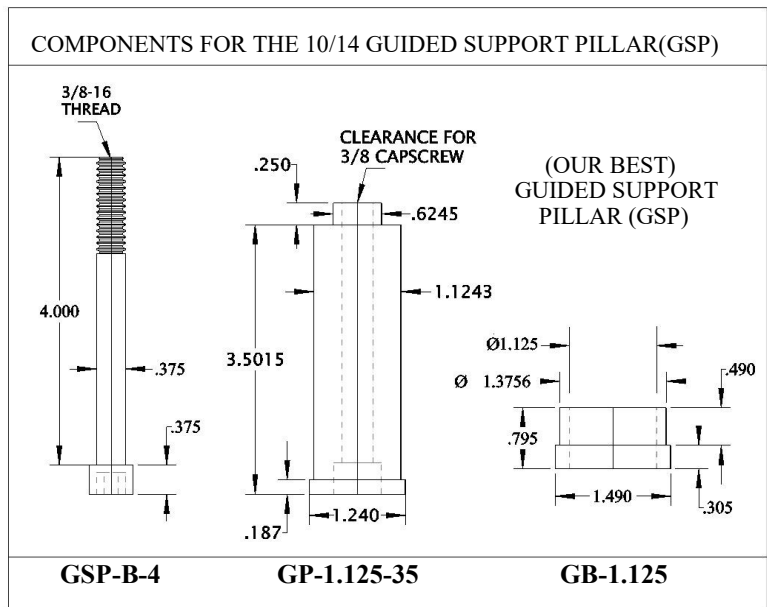


THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

ORDERING EXAMPLES:

10/14 C-XSU-225-RO 10/14 C-XSU-229-GSP

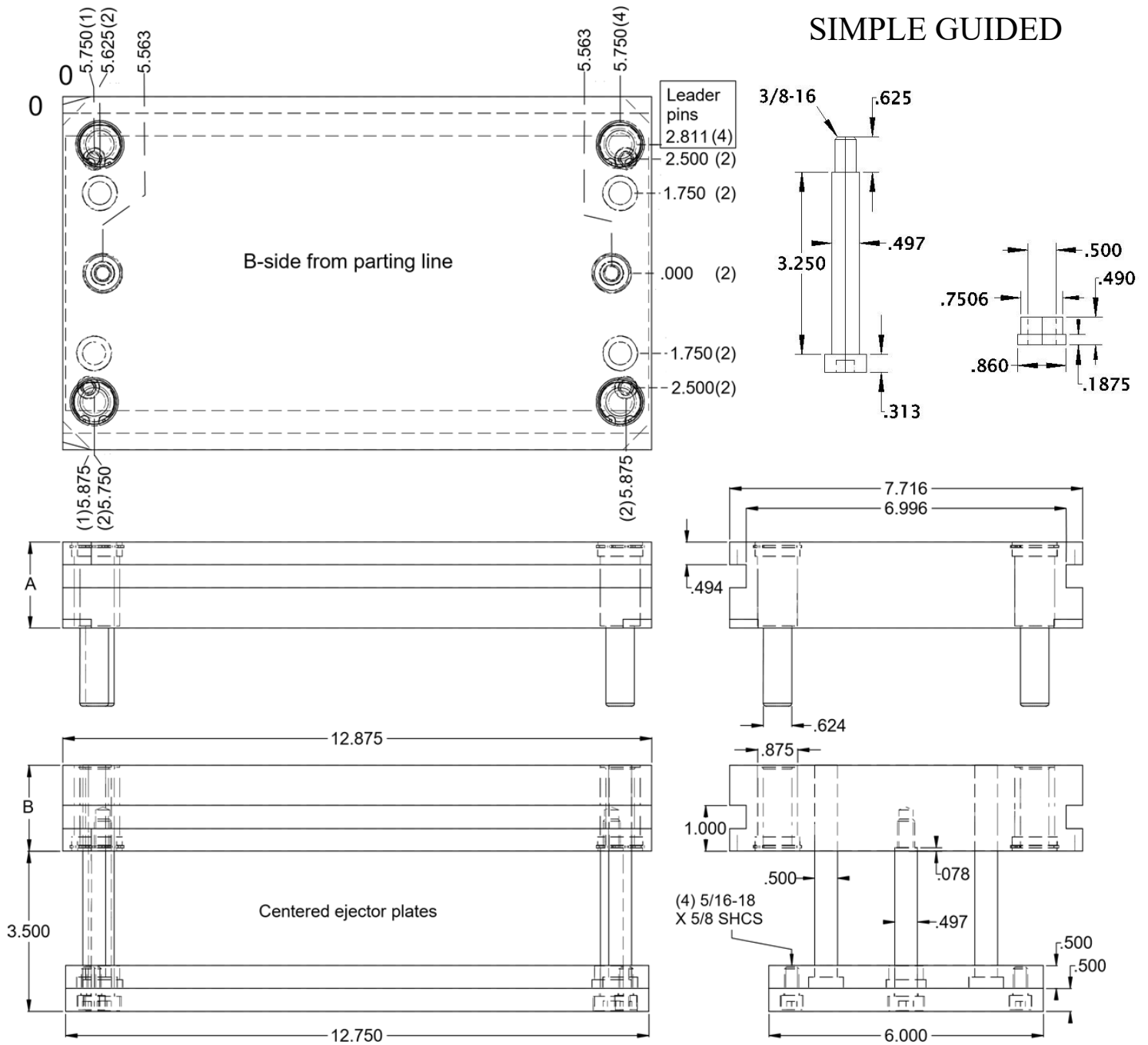
CATALOG NUMBER BASIC	A	B
10/14 C-XSU-224	1.877	1.877
10/14 C-XSU-225	1.877	2.377
10/14 C-XSU-226	2.377	1.877
10/14 C-XSU-227	2.377	2.377
10/14 C-XSU-228	2.377	2.877
10/14 C-XSU-229	2.877	2.377
10/14 C-XSU-230	2.877	2.877



ADDITIONAL OPTIONS:

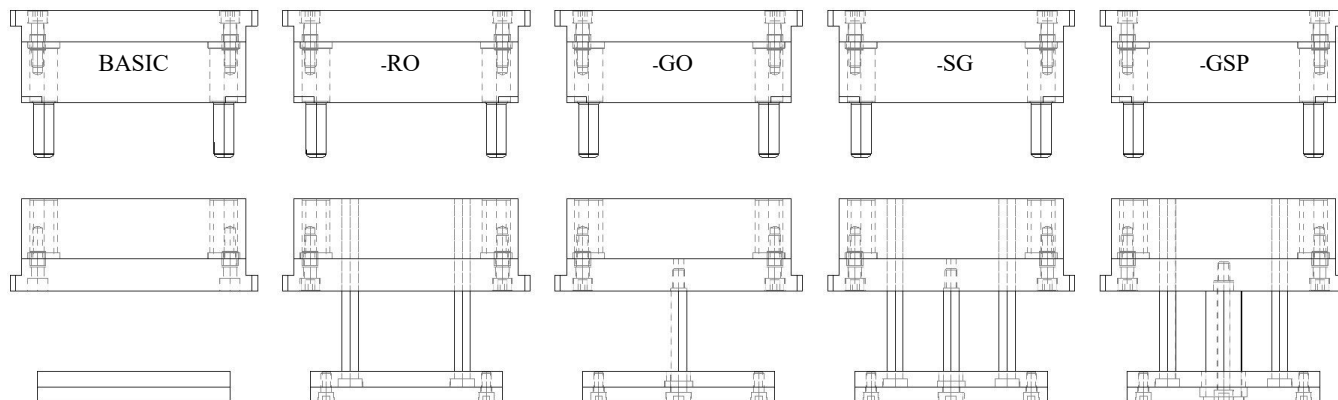
- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

10/14 C-XSU 7.0 X 12.9 FITS 10/14 U-FRAME



10/14 C-SLU LAMINATED INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM



ORDERING EXAMPLES:

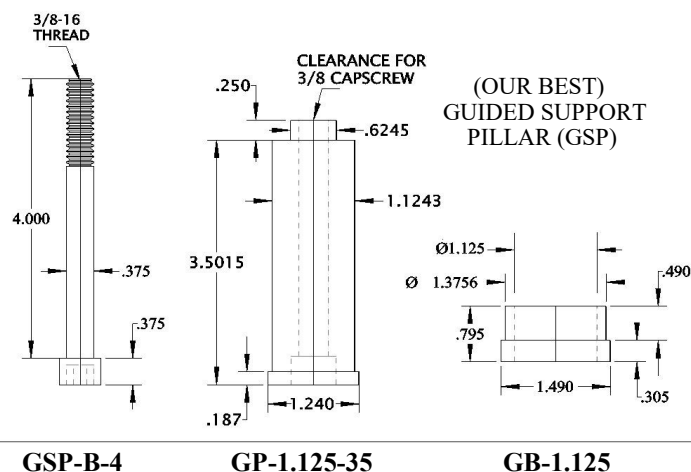
10/14 C-SLU-286-RO 10/14 C-SLU-287-GSP

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

NOTE: NEW SIZES

CATALOG NUMBER BASIC	A	A2	B2	B
10/14 C-SLU-285	2.377	1.377	1.377	2.377
10/14 C-SLU-286	2.377	1.377	1.877	2.877
10/14 C-SLU-288	2.877	1.877	1.377	2.377
10/14 C-SLU-289	2.877	1.877	1.877	2.877
10/14 C-SLU-290	2.877	1.877	2.377	3.377
10/14 C-SLU-291	3.377	2.377	1.877	2.877
10/14 C-SLU-292	3.377	2.377	2.377	3.377

COMPONENTS FOR THE 10/14 GUIDED SUPPORT PILLAR(GSP)

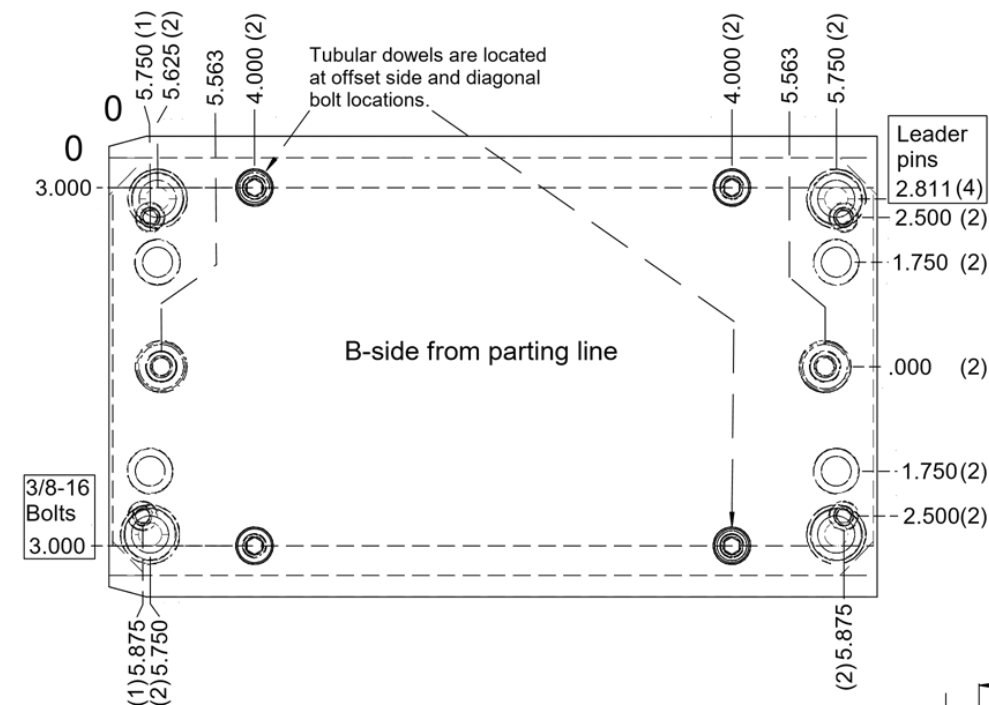


NOTE: THE C-SLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

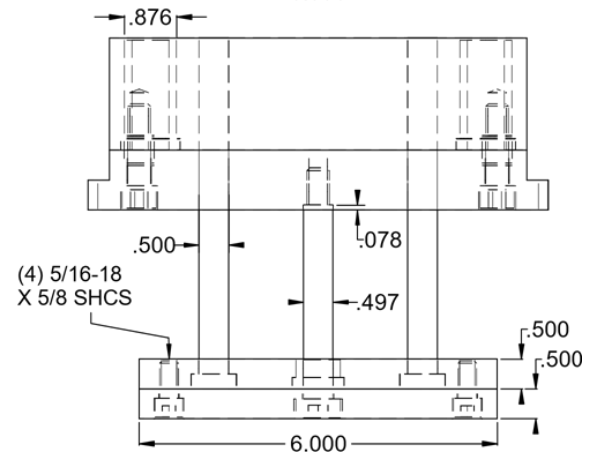
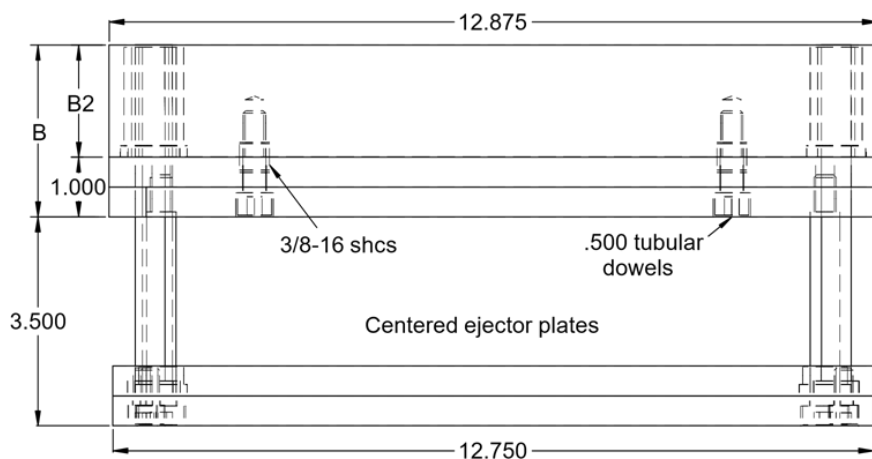
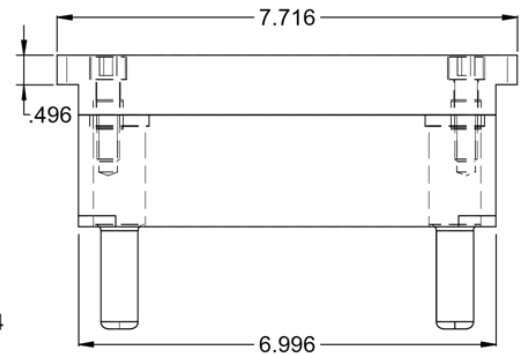
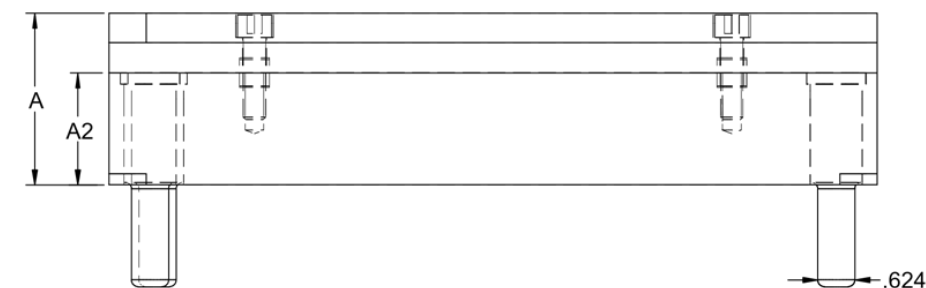
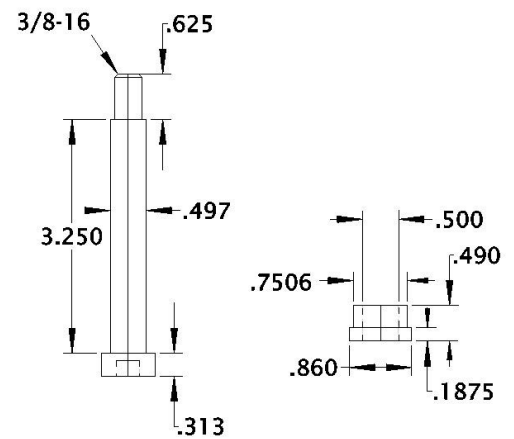
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

10/14 C-SLU 7.0 X 12.9 FITS 10/14 U-FRAME

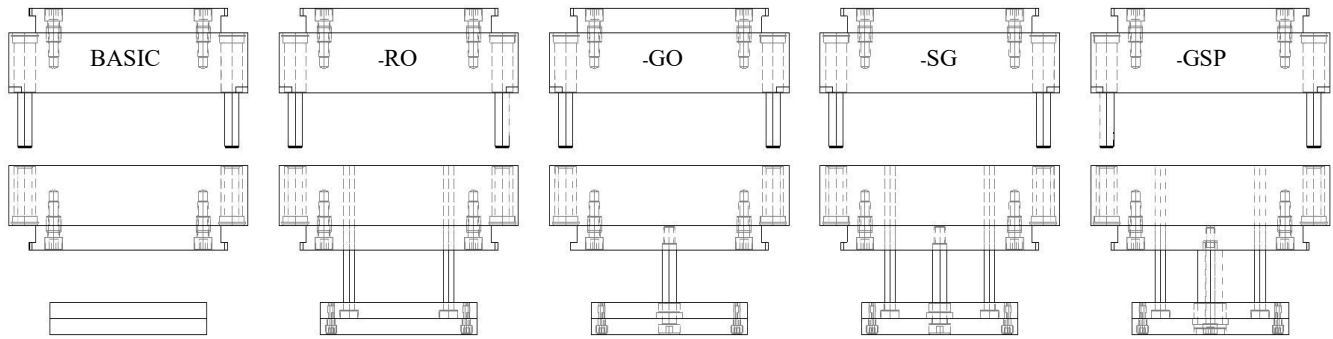


SIMPLE GUIDED



10/14 C-TLU LAMINATED T-STYLE

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSTOOL.COM

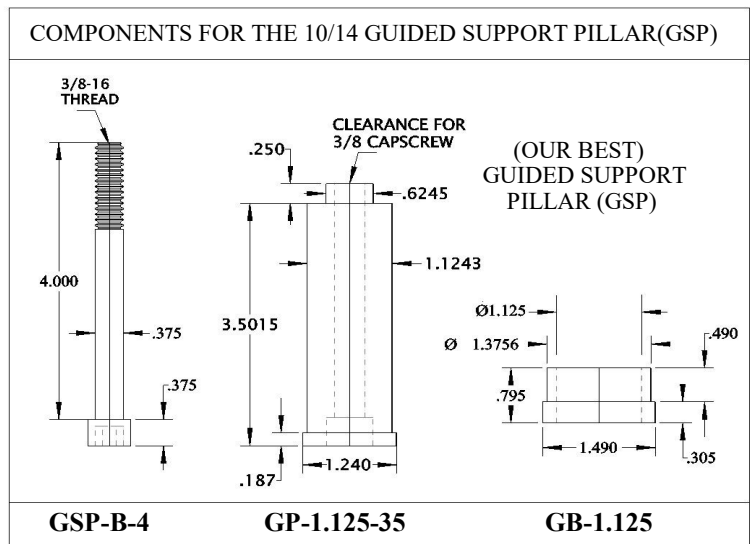


ORDERING EXAMPLES:

10/14 C-TLU-207-RO 10/14 C-TLU-204-GSP
10/14 C-TLU-210-SG 10/14 C-TLU-206-GO

CATALOG NUMBER BASIC	A	A2	B2	B
10/14 C-TLU-204	2.377	1.377	1.377	2.377
10/14 C-TLU-205	2.377	1.377	1.877	2.877
10/14 C-TLU-206	2.877	1.877	1.377	2.377
10/14 C-TLU-207	2.877	1.877	1.877	2.877
10/14 C-TLU-208	2.877	1.877	2.377	3.377
10/14 C-TLU-209	3.377	2.377	1.877	2.877
10/14 C-TLU-210	3.377	2.377	2.377	3.377

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →



NOTE: THE C-TLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

ADDITIONAL OPTIONS:

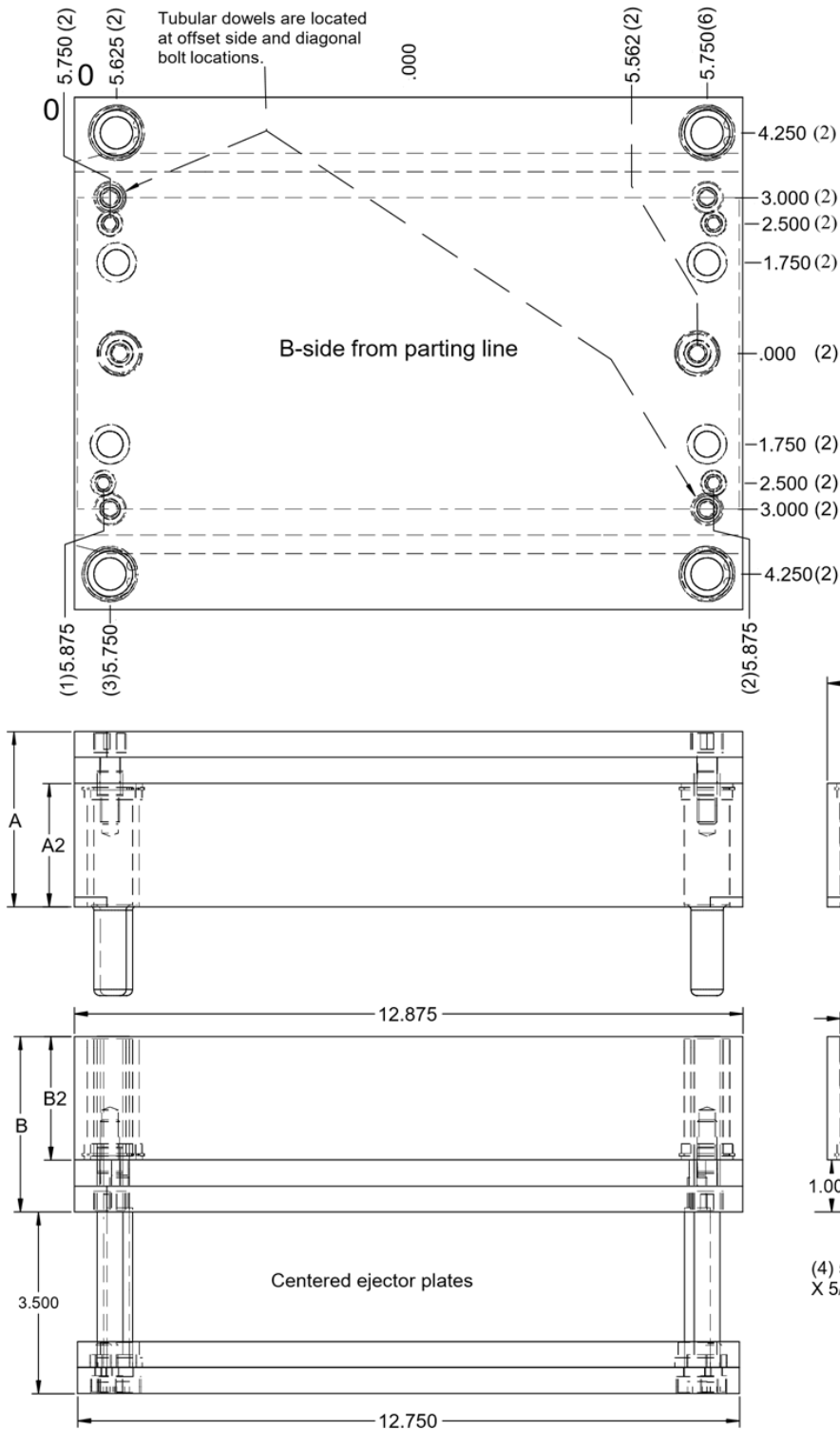
- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

10/14 C-TLU

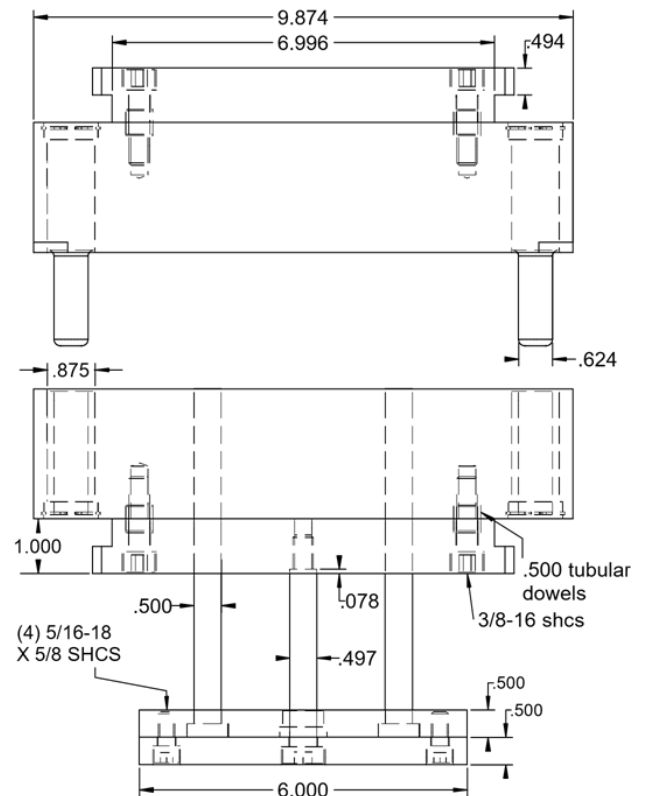
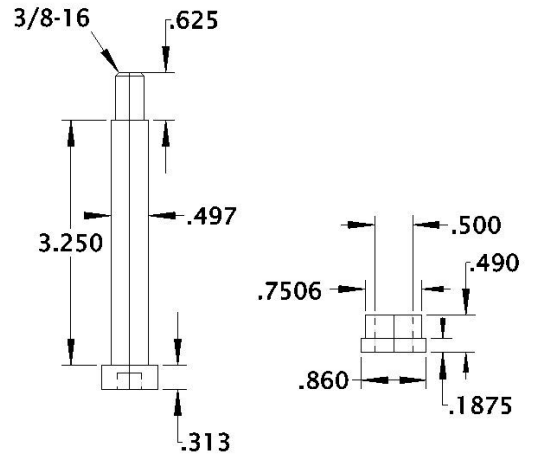
7.0 X 12.9 EAR PLATE
9.9 X 12.9 T-PLATE

FITS 10/ 14U-FRAME

All C-TLU'S can be modified in length and width to accommodate cams or waterlines. Leader pin locations can be moved. All ear-plate and ejector locations will stay in the same position.



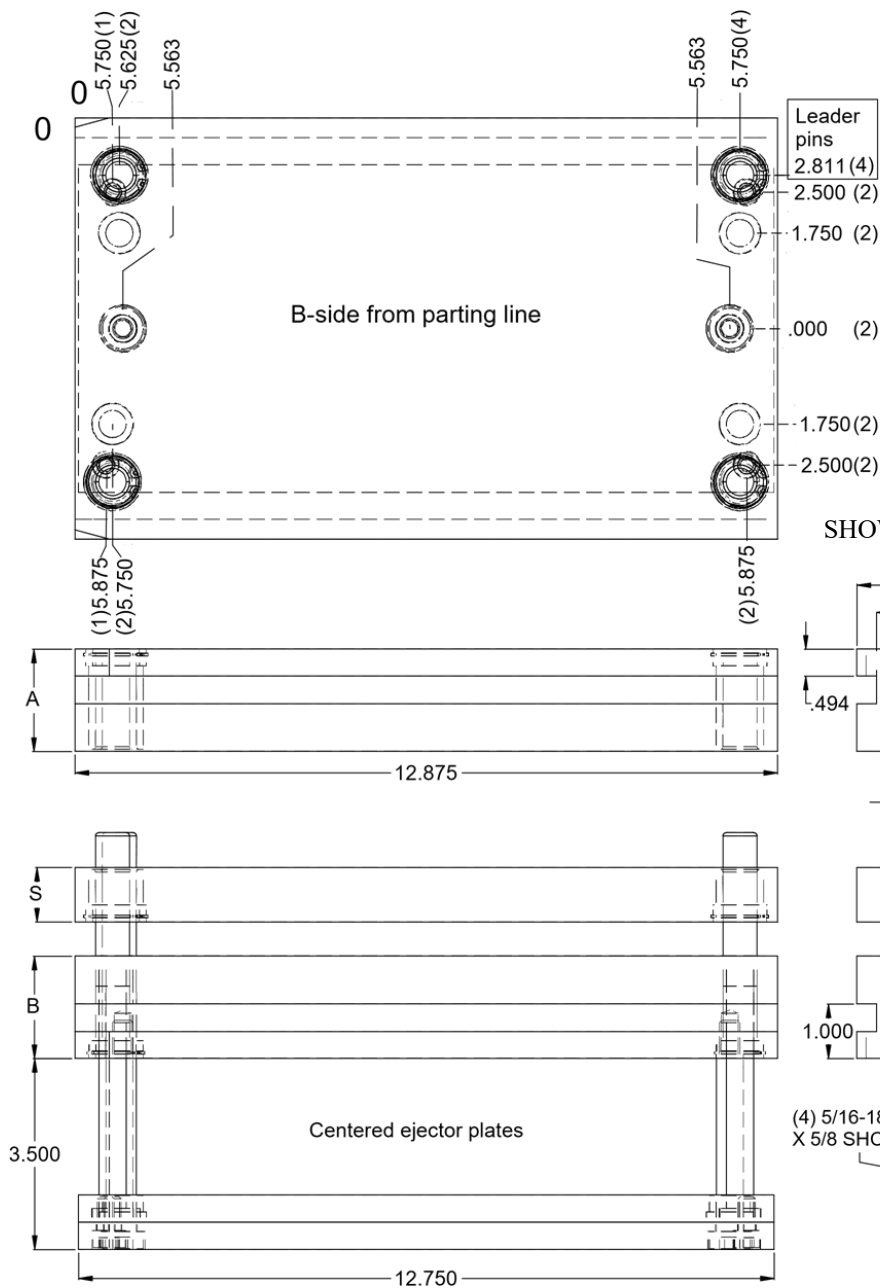
SIMPLE GUIDED



10/14 C-XSU-S

STRIPPER PLATE INSERT

7.0 X 12.9 FITS 10/14 U-FRAME

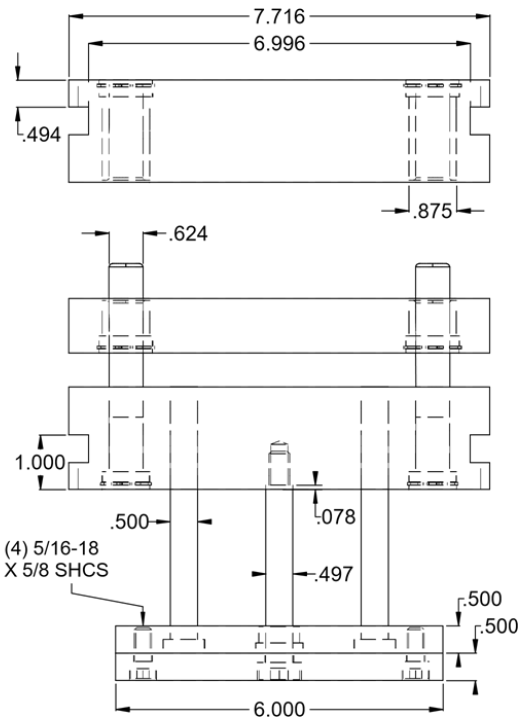


YOUR CHOICES INCLUDE:

* ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES. (SEE C-XSU PAGE 38)

* ALSO AVAILABLE AS A LAMINATED B-SIDE

SHOWN WITH SIMPLE GUIDED EJECTION



ORDERING EXAMPLES:

10/14 C-XSU-S-005-1
10/14 C-XSU-S-001-1
10/14 C-XSU-S-003-1

CUSTOM ORDER EXAMPLES:

10/14 C-SLU-S 10/14 C-XSU-S-2HOLE
A 1.877 A 1.877
A2 1.125 S 0.750
S 1.000 B 2.377
B2 1.627
B 2.377

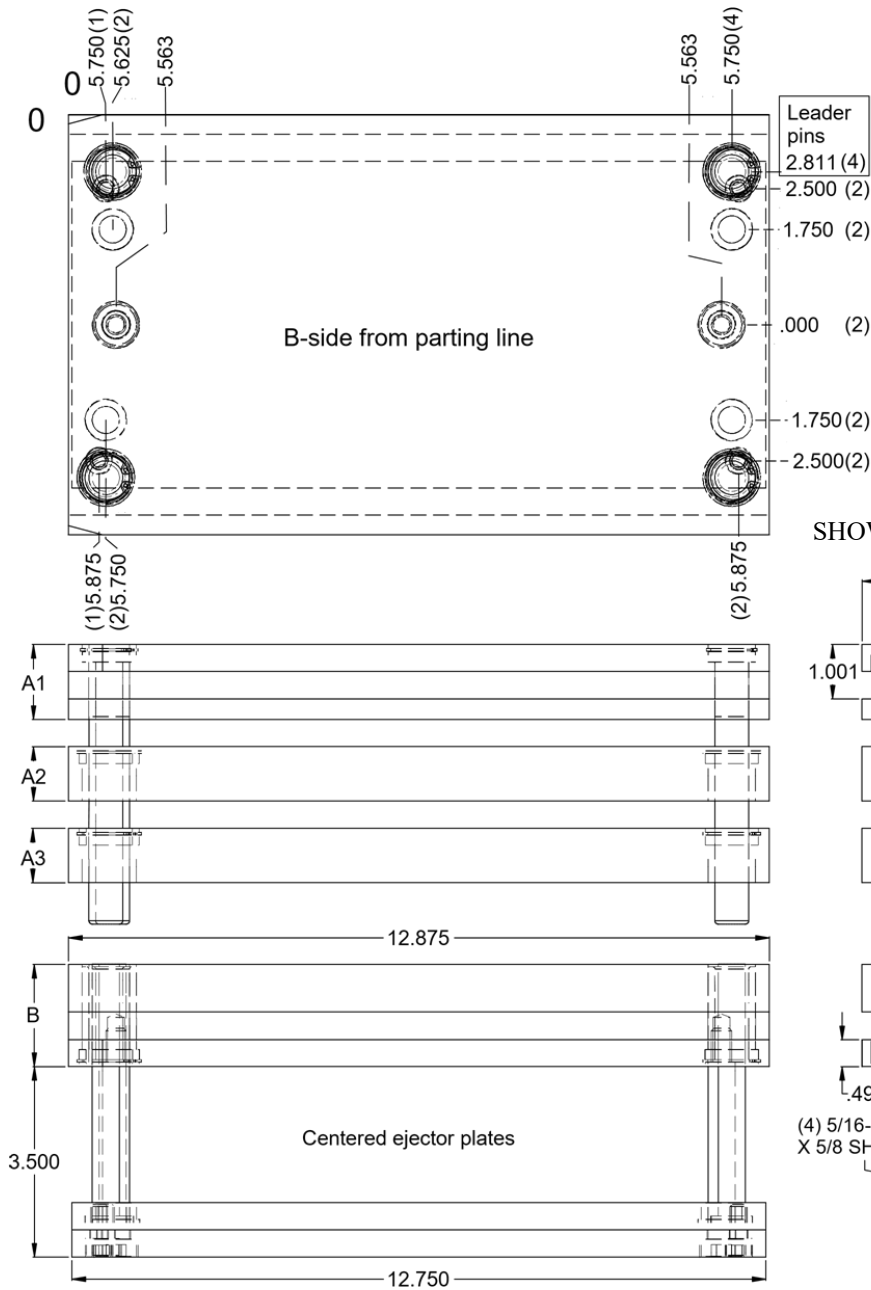
A-PLATES AND B-PLATES CAN BE ORDERED IN ANY COMBINATION OF 1.377, 1.877, 2.377, OR 2.877.

OTHER STRIPPER THICKNESSES ARE ALSO AVAILABLE

CATALOG NUMBER	A	B	S
10/14 C-XSU-S-001	1.877	1.377	1.000
10/14 C-XSU-S-002	1.877	1.877	1.000
10/14 C-XSU-S-003	1.877	2.377	1.000
10/14 C-XSU-S-004	2.377	1.877	1.000
10/14 C-XSU-S-005	2.377	2.377	1.000
10/14 C-XSU-S-006	2.877	2.377	1.000

10/14 C-XSU-3P 3 PLATE INSERT

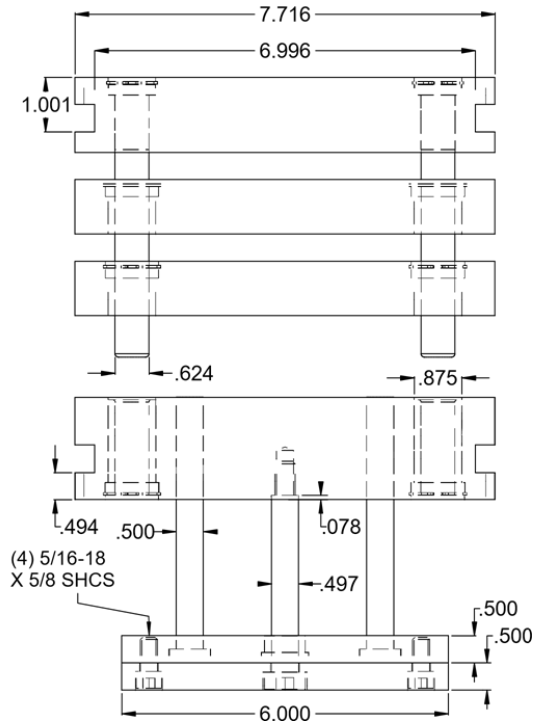
7.0 X 12.9 FITS 10/14 U-FRAME



YOUR CHOICES INCLUDE:

- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES. (SEE C-XSU PAGE 38)
- * ALSO AVAILABLE AS A LAMINATED B-SIDE

SHOWN WITH SIMPLE GUIDED EJECTION



CATALOG NUMBER *CUSTOMIZABLE	A1	A2	A3	B
10/14 C-XSU-3P-001	1.000	1.000	1.000	1.877
10/14 C-XSU-3P-002	1.000	1.000	1.000	2.377
10/14 C-XSU-3P-003	1.000	1.000	1.000	2.877
10/14 C-XSU-3P-004	1.377	1.000	1.000	1.877
10/14 C-XSU-3P-005	1.377	1.000	1.000	2.377
10/14 C-XSU-3P-006	1.377	1.000	1.000	2.877

*CAN BE ORDERED IN ANY COMBINATION OF 1.00, 1.377, 1.877, 2.377, OR 2.877.

ORDERING EXAMPLES:

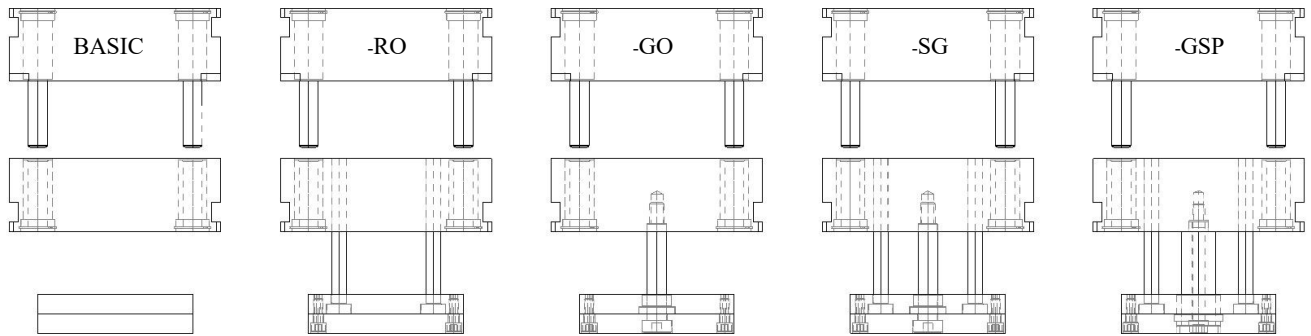
10/14 C-XSU-3P-005
10/14 C-XSU-3P-001
10/14 C-XSU-3P-003

CUSTOM ORDER EXAMPLES:

10/14 C-XSU-3P 10/14 C-XSU-3P
A1 1.877 A1 1.377
A2 1.250 A2 1.877
A3 1.377 A3 1.000
B2 1.627 B 2.377
B 2.377

11/11 C-XSU SOLID INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM

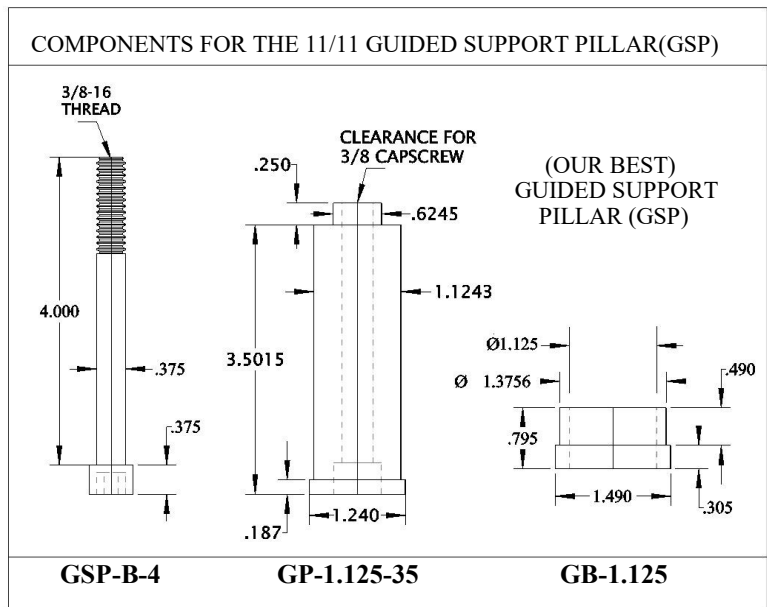


THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →

ORDERING EXAMPLES:

11/11 C-XSU-225-RO 11/11 C-XSU-229-GSP

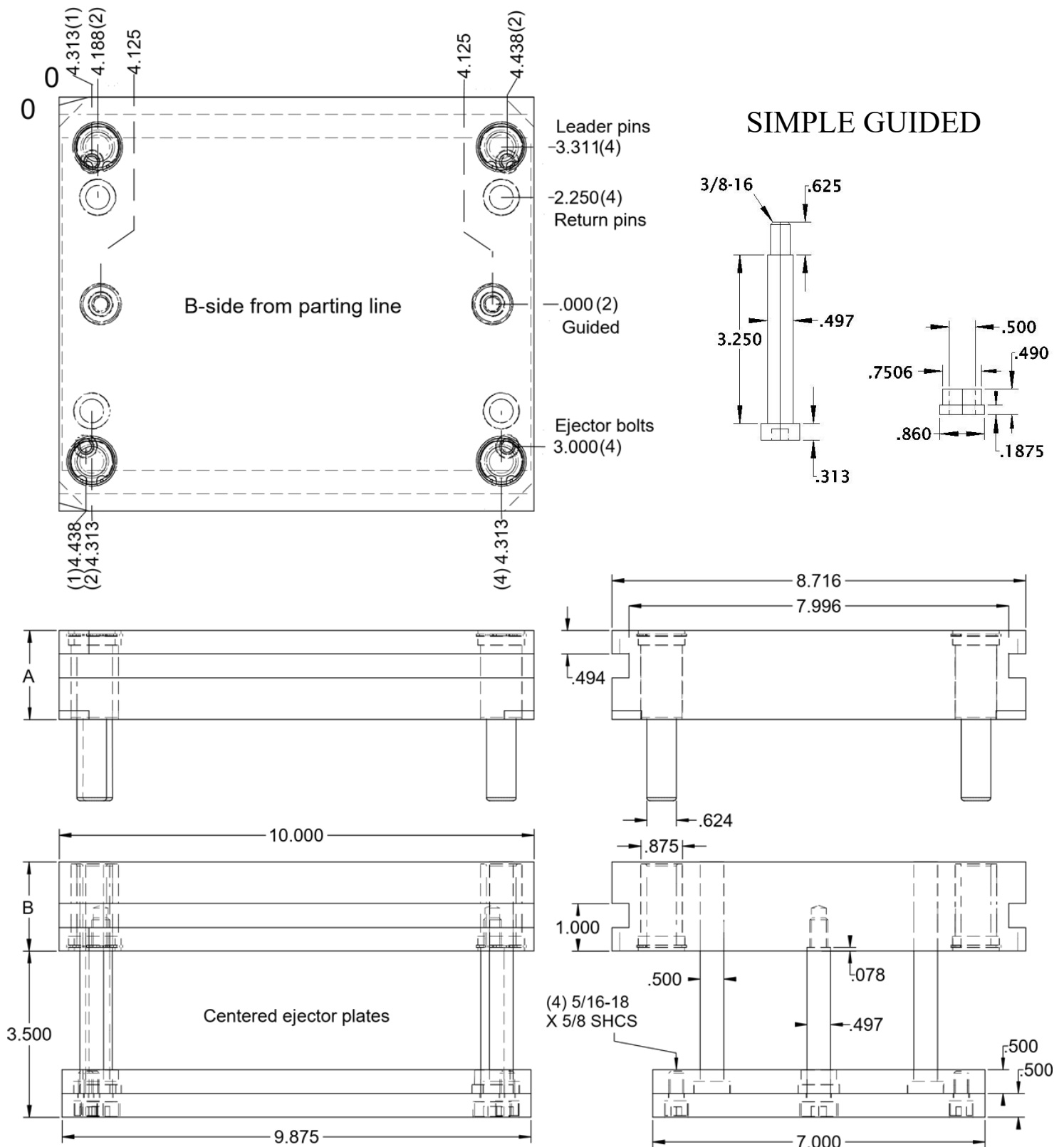
CATALOG NUMBER BASIC	A	B
11/11 C-XSU-224	1.877	1.877
11/11 C-XSU-225	1.877	2.377
11/11 C-XSU-226	2.377	1.877
11/11 C-XSU-227	2.377	2.377
11/11 C-XSU-228	2.377	2.877
11/11 C-XSU-229	2.877	2.377
11/11 C-XSU-230	2.877	2.877



ADDITIONAL OPTIONS:

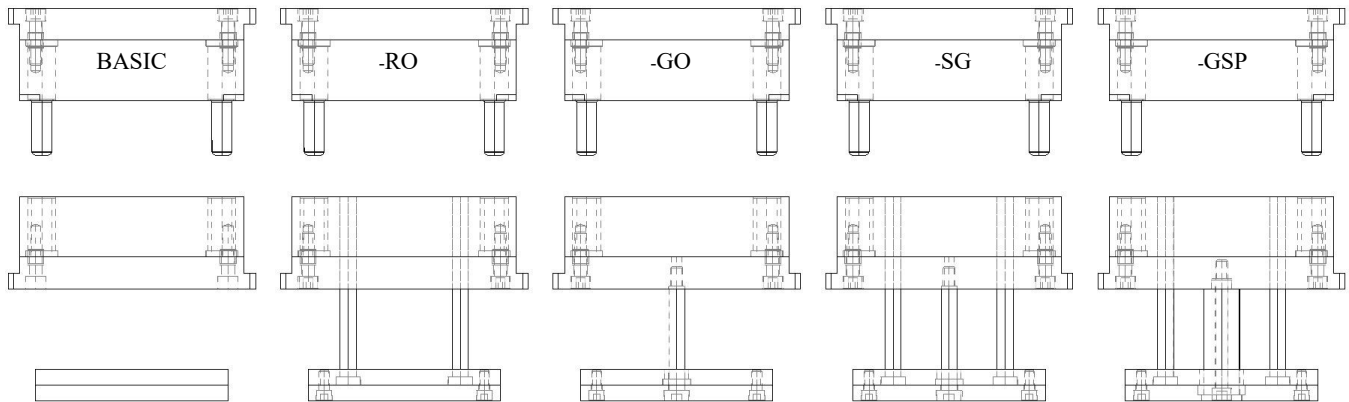
- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

11/11 C-XSU 8.0 X 10.0 FITS 11/11 U-FRAME



11/11 C-SLU LAMINATED INSERT

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSSTOOL.COM

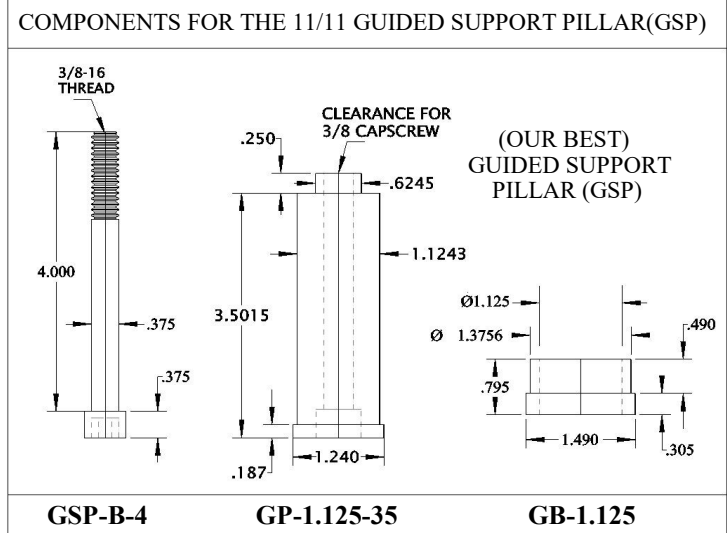


ORDERING EXAMPLES:

11/11 C-SLU-286-RO 11/11 C-SLU-287-GSP

NOTE: NEW SIZES

CATALOG NUMBER BASIC	A	A2	B2	B
11/11 C-SLU-285	2.377	1.377	1.377	2.377
11/11 C-SLU-286	2.377	1.377	1.877	2.877
11/11 C-SLU-288	2.877	1.877	1.377	2.377
11/11 C-SLU-289	2.877	1.877	1.877	2.877
11/11 C-SLU-290	2.877	1.877	2.377	3.377
11/11 C-SLU-291	3.377	2.377	1.877	2.877
11/11 C-SLU-292	3.377	2.377	2.377	3.377

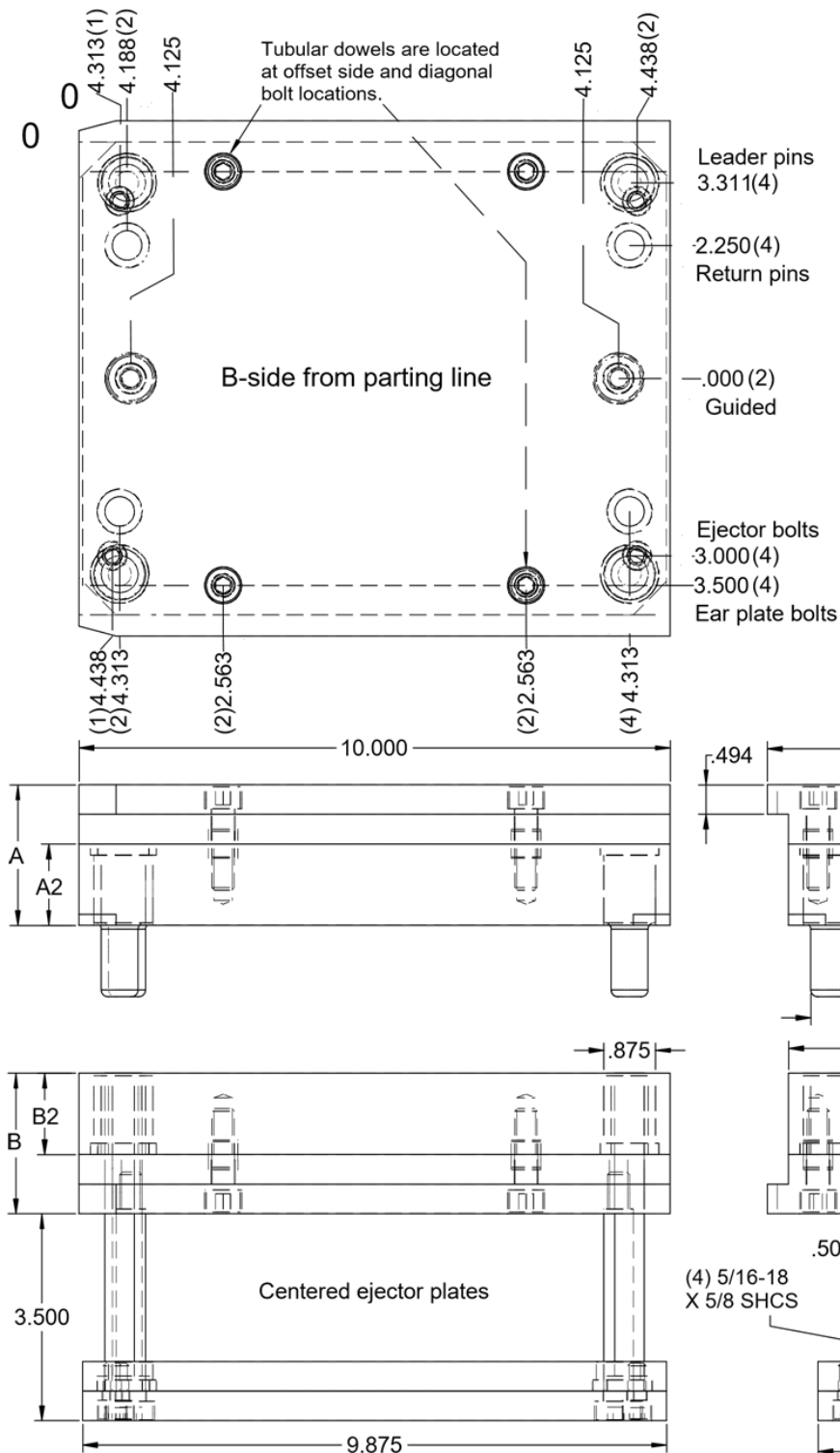


NOTE: THE C-SLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

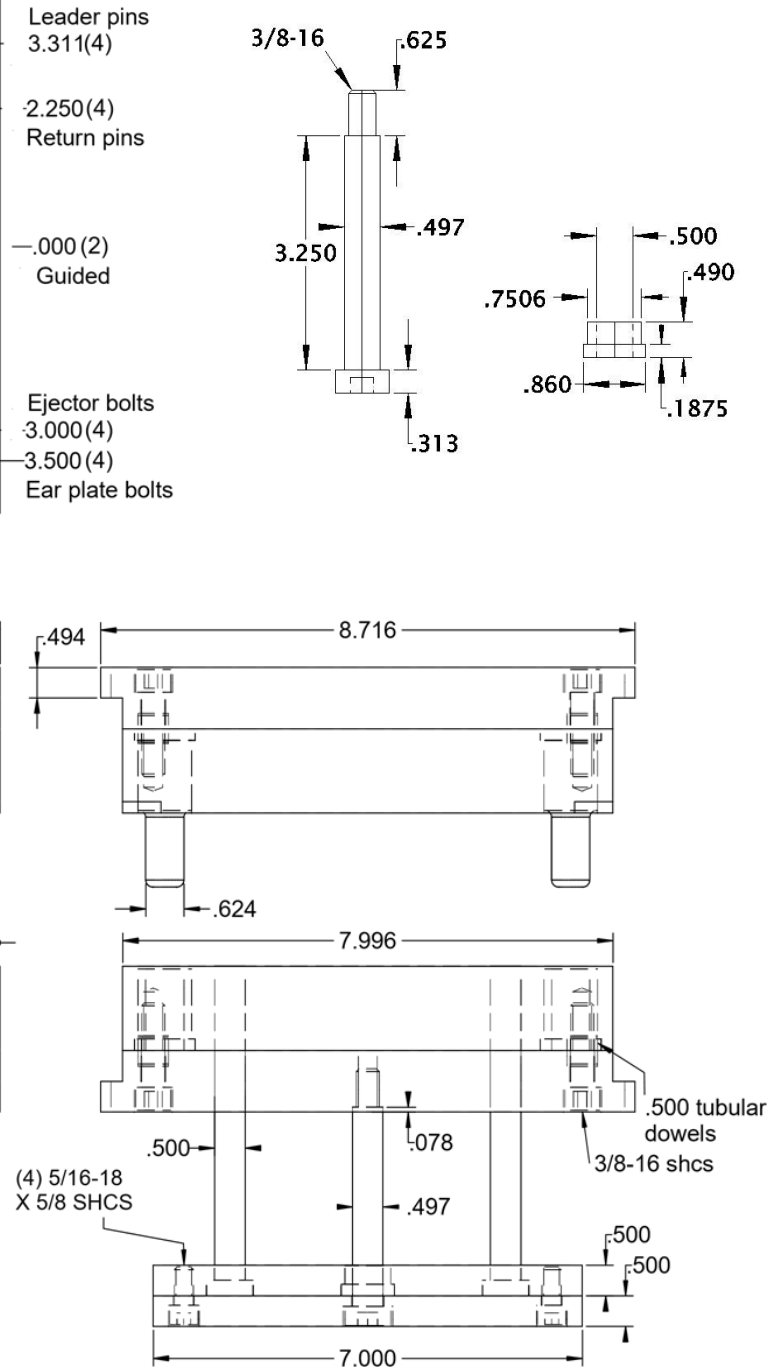
ADDITIONAL OPTIONS:

- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

11/11 C-SLU 8.0 X 10.0 FITS 11/11 U-FRAME

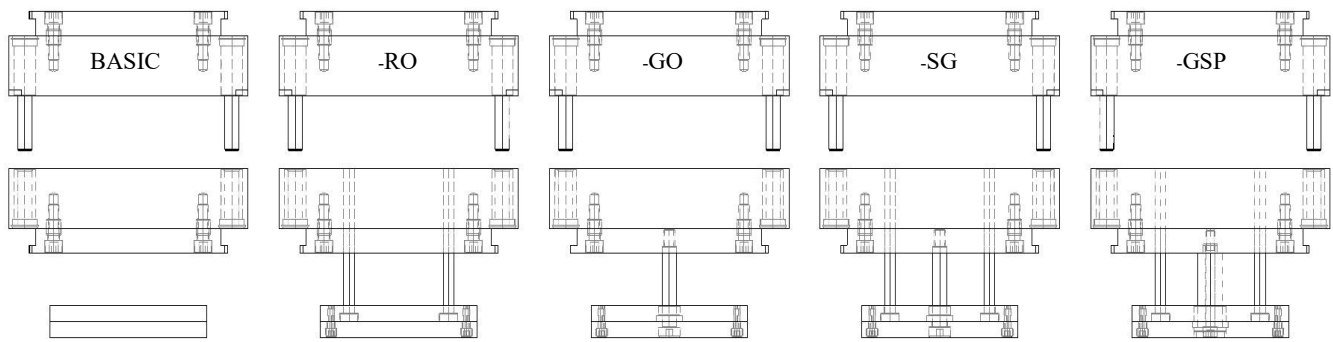


SIMPLE GUIDED



11/11 C-TLU LAMINATED T-STYLE

DRAWINGS AVAILABLE ONLINE IN .STEP
OR .XT FORMATS AT CROSTOOL.COM

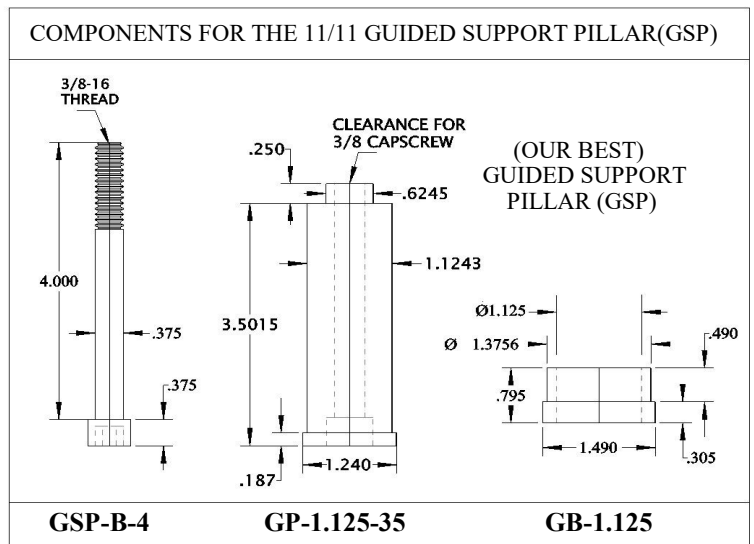


ORDERING EXAMPLES:

11/11 C-TLU 207-RO 11/11C-TLU-204-GSP
11/11 C-TLU-210-SG 11/11 C-TLU-206-GO

CATALOG NUMBER BASIC	A	A2	B2	B
11/11 C-TLU-204	2.377	1.377	1.377	2.377
11/11 C-TLU-205	2.377	1.377	1.877	2.877
11/11 C-TLU-206	2.877	1.877	1.377	2.377
11/11 C-TLU-207	2.877	1.877	1.877	2.877
11/11 C-TLU-208	2.877	1.877	2.377	3.377
11/11 C-TLU-209	3.377	2.377	1.877	2.877
11/11 C-TLU-210	3.377	2.377	2.377	3.377

THE (GUIDED SUPPORT PILLAR) OPTION USES THE SAME LOCATIONS
AS THE (SIMPLE GUIDED), AS DRAWN ON THE OPPOSITE PAGE →



NOTE: THE C-TLU SERIES INCLUDES BOLTED EAR PLATES WITH TUBULAR ALIGNMENT DOWELS.

ADDITIONAL OPTIONS:

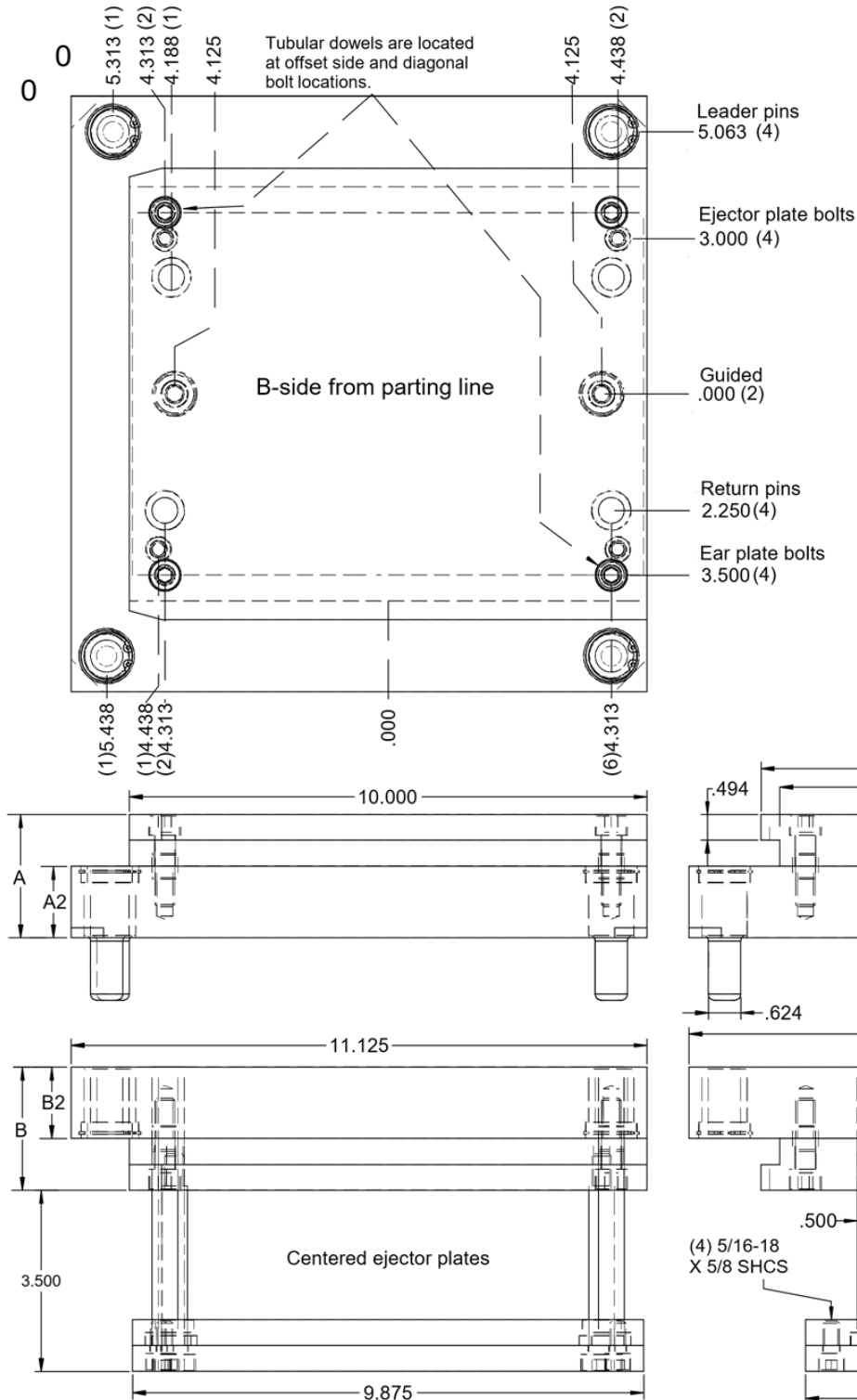
- RO (RETURN ONLY) INCLUDES ALL RETURN PIN MACHINING, WITH CUT TO SIZE RETURN PINS AND BOLTED EJECTOR PLATES.
- GO (GUIDED ONLY) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES BOLTED EJECTOR PLATES, BUT NO RETURN PINS.
- SG (SIMPLE GUIDED) USES SHOULDER BOLTS AND ALUMINUM BRONZE BUSHINGS. A GOOD QUALITY GUIDED SYSTEM, THAT INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN PIN ONLY.
- GSP (GUIDED SUPPORT PILLAR) USES HIGH PRECISION SUPPORT PILLARS AND ALUMINUM BRONZE BUSHINGS TO PROVIDE A SUPERIOR QUALITY GUIDED EJECTOR SYSTEM. INCORPORATES AN EJECTOR PLATE RETENSION SYSTEM. INCLUDES ALL THE FEATURES OF THE RETURN ONLY.

11/11 C-TLU

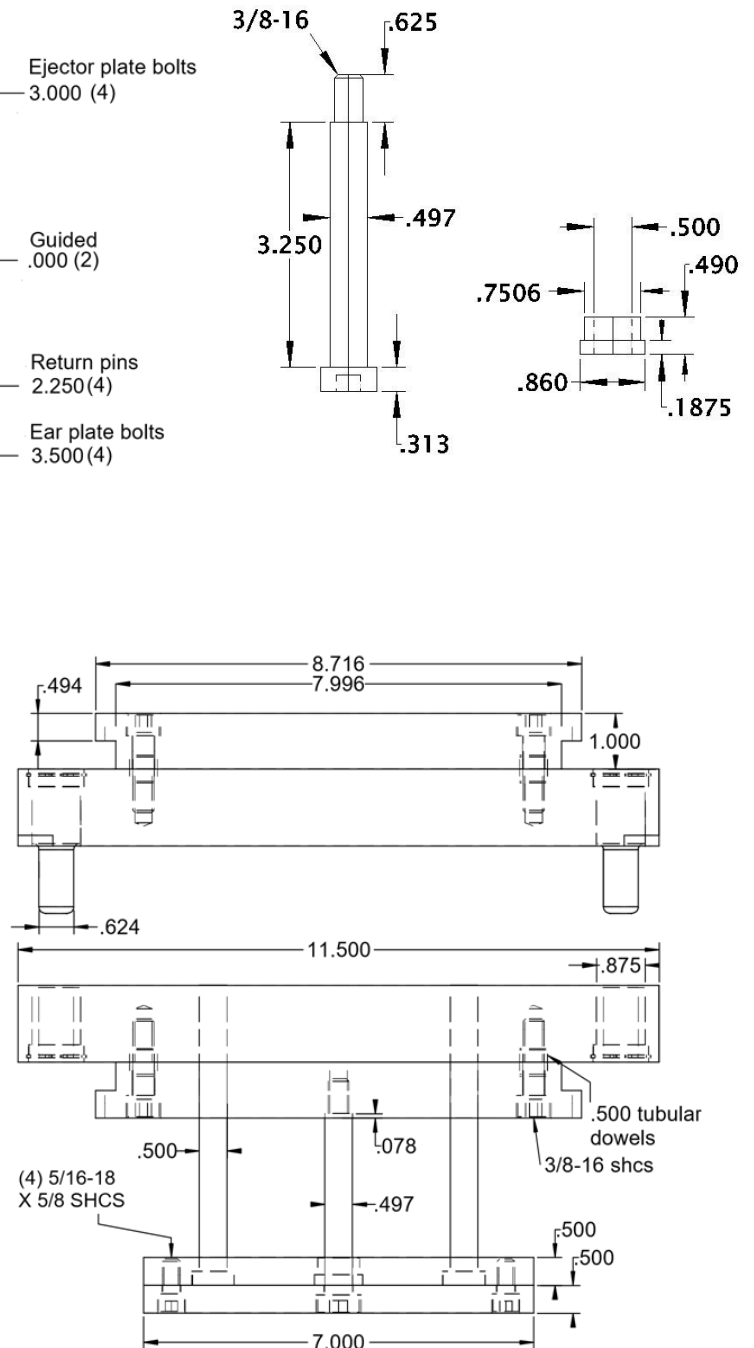
8.0 X 10.0 EAR PLATE
11.5 X 11.125 T-PLATE

FITS 11/11 U-FRAME

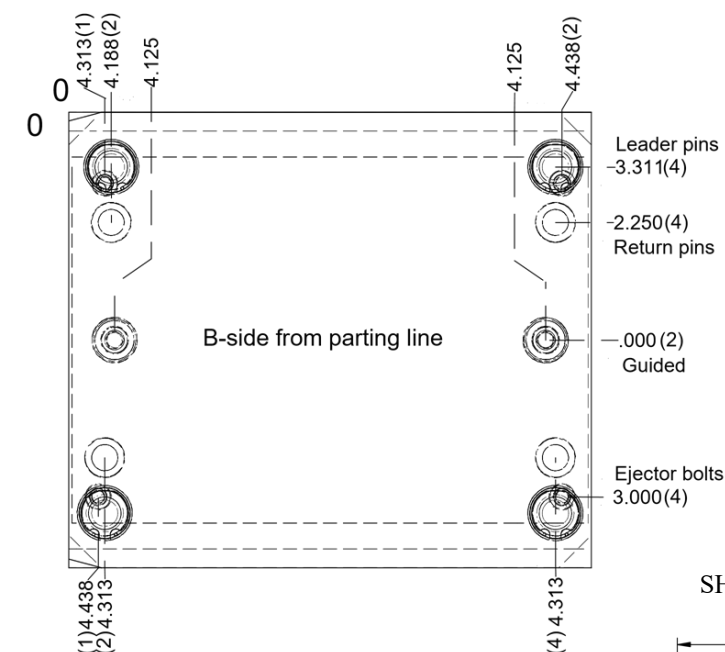
All C-TLU'S can be modified in length and width to accommodate cams or waterlines. Leader pin locations can be moved. All ear-plate and ejector locations will stay in the same position.



SIMPLE GUIDED



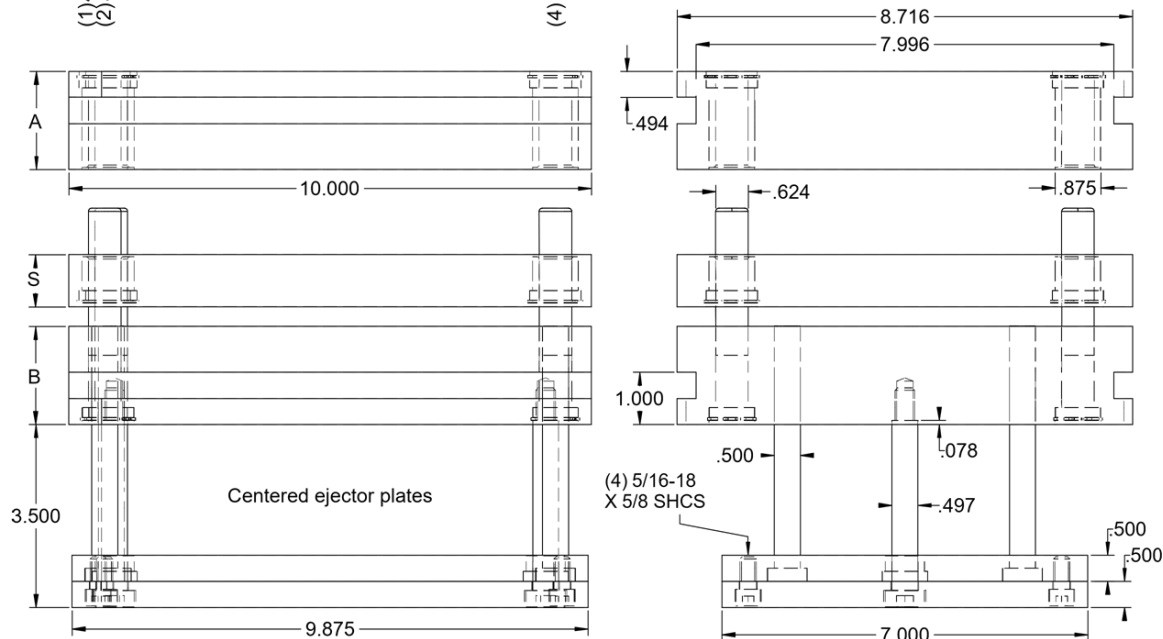
11/11 C-XSU-S STRIPPER PLATE INSERT 8.0 X 10.0 FITS 11/11 U-FRAME



YOUR CHOICES INCLUDE:

- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES. (SEE C-XSU PAGE 46)
- * ALSO AVAILABLE AS A LAMINATED B-SIDE

SHOWN WITH SIMPLE GUIDED



ORDERING EXAMPLES:

11/11 C-XSU-S-005-1
11/11 C-XSU-S-001-1
11/11 C-XSU-S-003-1

CUSTOM ORDER EXAMPLES:

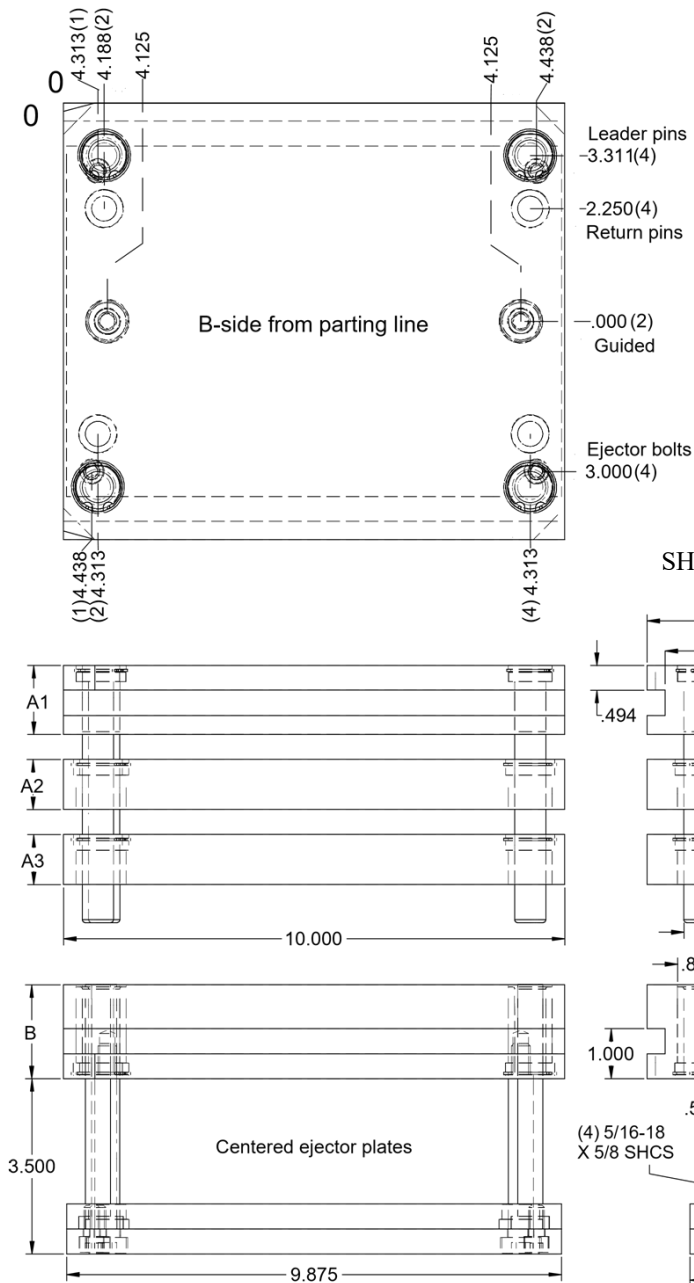
11/11 C-SLU-S 11/11 C-XSU-S-2HOLE
A 1.877 A 1.877
A2 1.125 S 0.750
S 1.000 B 2.377
B2 1.627
B 2.377

A-PLATES AND B-PLATES CAN BE ORDERED IN ANY COMBINATION OF 1.377, 1.877, 2.377, OR 2.877.

OTHER STRIPPER THICKNESSES ARE ALSO AVAILABLE

CATALOG NUMBER	A	B	S
11/11 C-XSU-S-001	1.877	1.377	1.000
11/11 C-XSU-S-002	1.877	1.877	1.000
11/11 C-XSU-S-003	1.877	2.377	1.000
11/11 C-XSU-S-004	2.377	1.877	1.000
11/11 C-XSU-S-005	2.377	2.377	1.000
11/11 C-XSU-S-006	2.877	2.377	1.000

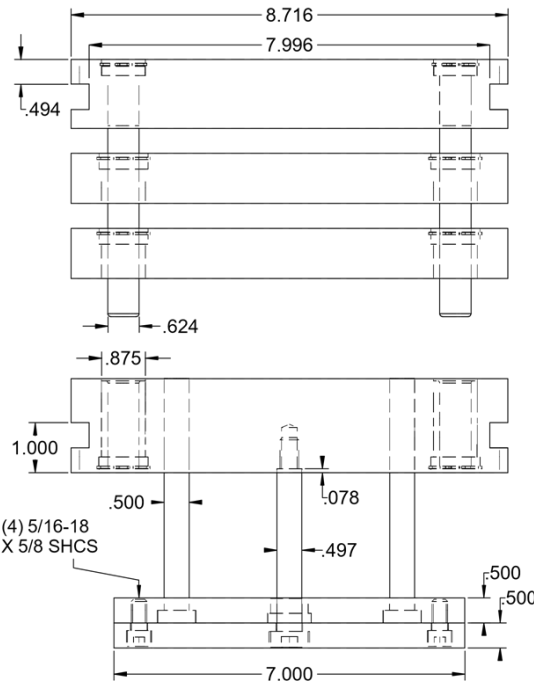
11/11 C-XSU-3P 3 PLATE INSERT 8.0 X 10.0 FITS 11/11 U-FRAME



YOUR CHOICES INCLUDE:

- * ALL THE OPTIONS FOR RETURN PINS, GUIDED EJECTORS OR BLANK EJECTOR PLATES. (SEE C-XSU PAGE 46)
- * ALSO AVAILABLE AS A LAMINATED B-SIDE

SHOWN WITH SIMPLE GUIDED



CATALOG NUMBER *CUSTOMIZABLE	A1	A2	A3	B
11/11 C-XSU-3P-001	1.000	1.000	1.000	1.877
11/11 C-XSU-3P-002	1.000	1.000	1.000	2.377
11/11 C-XSU-3P-003	1.000	1.000	1.000	2.877
11/11 C-XSU-3P-004	1.377	1.000	1.000	1.877
11/11 C-XSU-3P-005	1.377	1.000	1.000	2.377
11/11 C-XSU-3P-006	1.377	1.000	1.000	2.877

ORDERING EXAMPLES:

11/11 C-XSU-3P-005
11/11 C-XSU-3P-001
11/11 C-XSU-3P-003

CUSTOM ORDER EXAMPLES:

11/11 C-XSU-3P 11/11 C-XSU-3P
A1 1.877 A1 1.377
A2 1.250 A2 1.877
A3 1.377 A3 1.000
B2 1.627 B 2.377
B 2.377

*CAN BE ORDERED IN ANY COMBINATION OF 1.00, 1.377, 1.877, 2.377, OR 2.877.

C-08/09 POCKETS

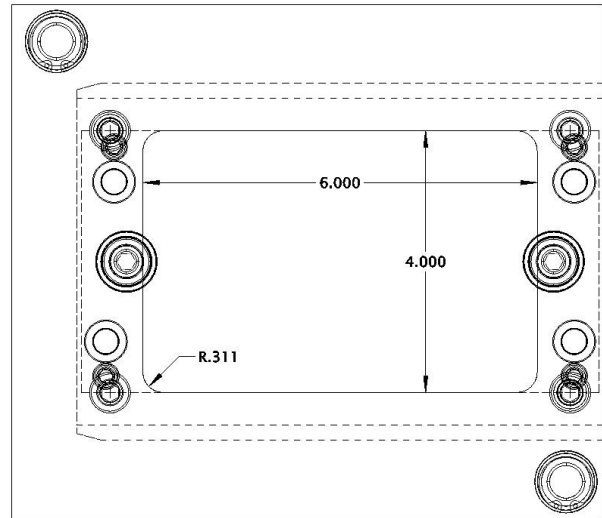
REQUIRED INFORMATION

Single Pocket:

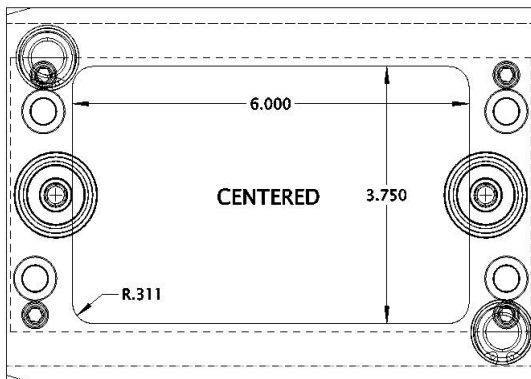
- Width of pocket inside the 4.996 width on C-XSU and C-SLU, or 7.85 inch T-plate dimension.
- Length of pocket inside 8 inch ear-plate dimension
- Depth of pocket
- Corner radius (.3115 standard to 1 inch deep)
- Corner radius (.375 standard from 1 to 2 inch deep)
- Center of pocket from middle of ear-plate towards or away from offset leader pin.

Multiple Pocket:

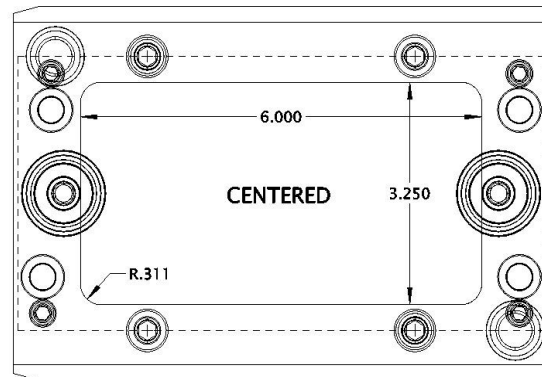
- Width of pockets
- Length of pockets
- Depth of Pockets
- Corner radius (.3115 standard to 1 inch deep)
- Corner radius (.375 standard from 1 to 2 inch deep)
- Location of pocket centers from middle of ear-plate towards or away from offset leader pin.



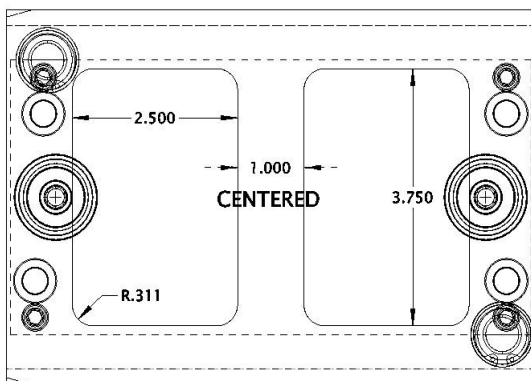
08/09 CTLU laminated pockets
maximum through size



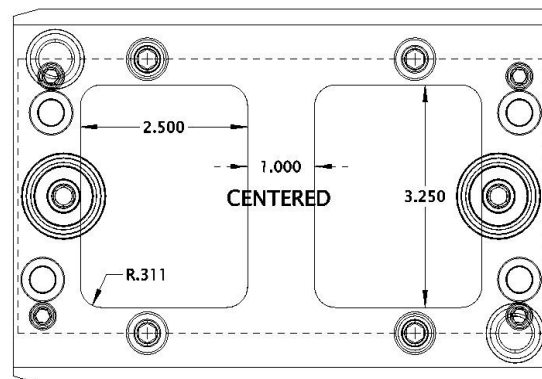
08/09 CXSU solid pockets
maximum size



08/09 CSLU laminated pockets
maximum size



08/09 CXSU solid pockets
maximum size



08/09 CSLU laminated pockets
maximum size

C-84/90 POCKETS

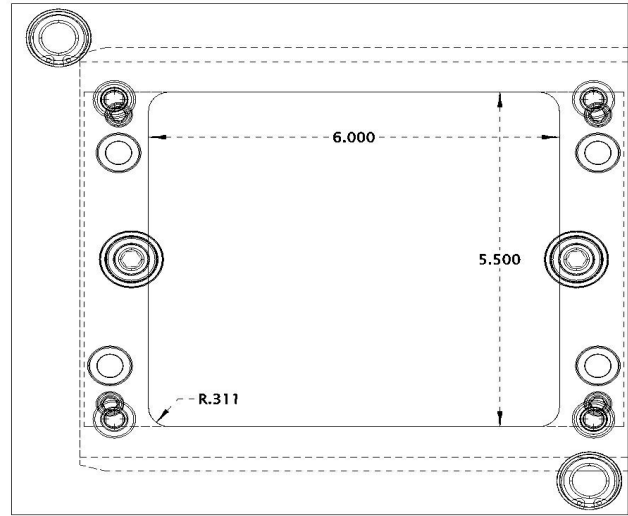
REQUIRED INFORMATION

Single Pocket:

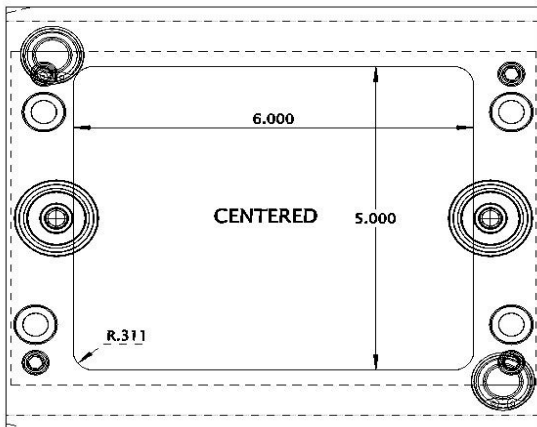
- Width of pocket inside the 6.956 width on C-XSU and C-SLU, or 8.400 inch T-plate dimension.
- Length of pocket inside 8 inch ear-plate dimension
- Depth of pocket
- Corner radius (.3115 standard to 1 inch deep)
- Corner radius (.375 standard from 1 to 2 inch deep)
- Center of pocket from middle of ear-plate towards or away from offset leader pin.

Multiple Pocket:

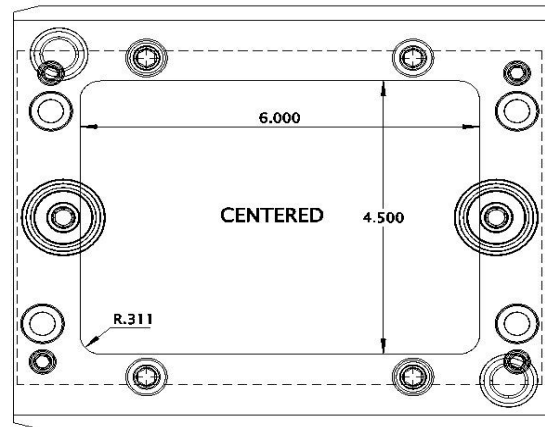
- Width of pockets
- Length of pockets
- Depth of Pockets
- Corner radius (.3115 standard to 1 inch deep)
- Corner radius (.375 standard from 1 to 2 inch deep)
- Location of pocket centers from middle of ear-plate towards or away from offset leader pin.



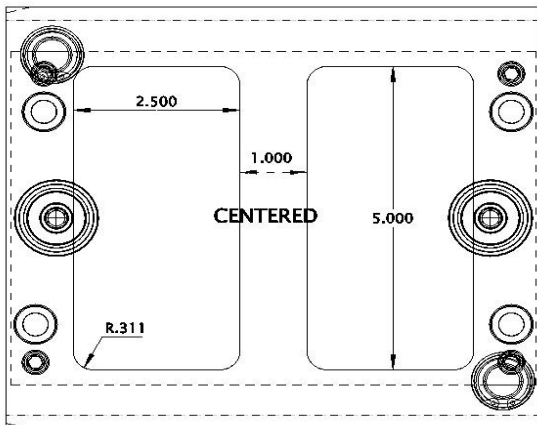
84/90 CTLU laminated pockets
maximum through size



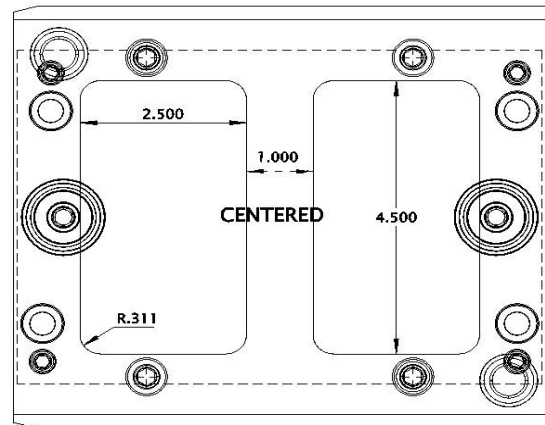
84/90 CXSU solid pockets
maximum size



84/90 CSLU laminated pockets
maximum size



84/90 CXSU solid pockets
maximum size



84/90 CSLU laminated pockets
maximum size

REQUIRED INFORMATION

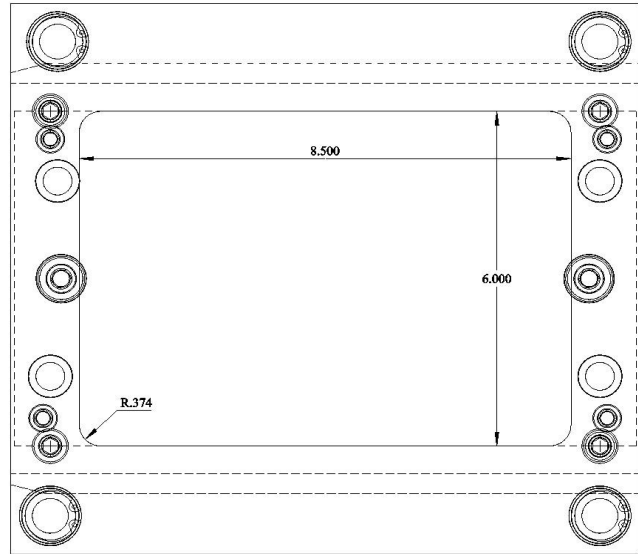
C-10/12 POCKETS

Single Pocket:

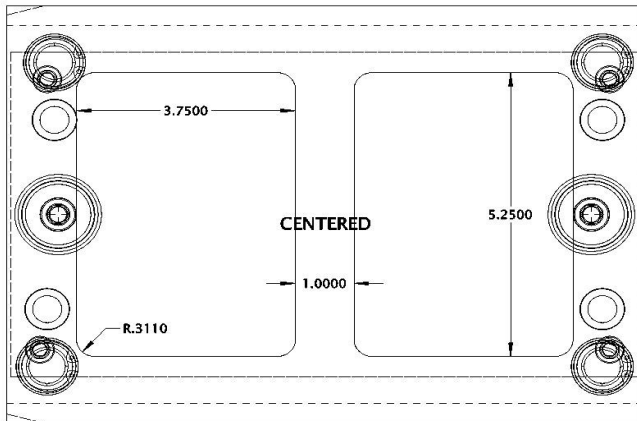
- Width of pocket inside the 6.996 dimension on C-XSU and C-SLU, or 9.875 inch T-plate dimension.
- Length of pocket inside 8 inch ear-plate dimension
- Depth of pocket
- Corner radius (.3115 standard to 1 inch deep)
- Corner radius (.374 standard from 1 to 2 inch deep)
- Center of pocket from middle of ear-plate towards or away from offset leader pin.

Multiple Pocket:

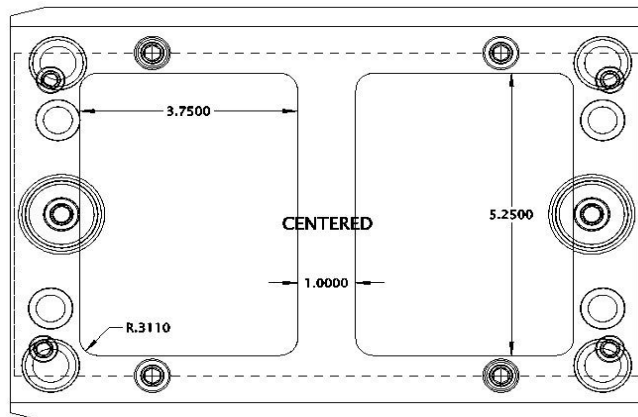
- Width of pockets
- Length of pockets
- Depth of Pockets
- Corner radius (.3115 standard to 1 inch deep)
- Corner radius (.375 standard from 1 to 2 inch deep)
- Location of pocket centers from middle of ear-plate towards or away from offset leader pin.



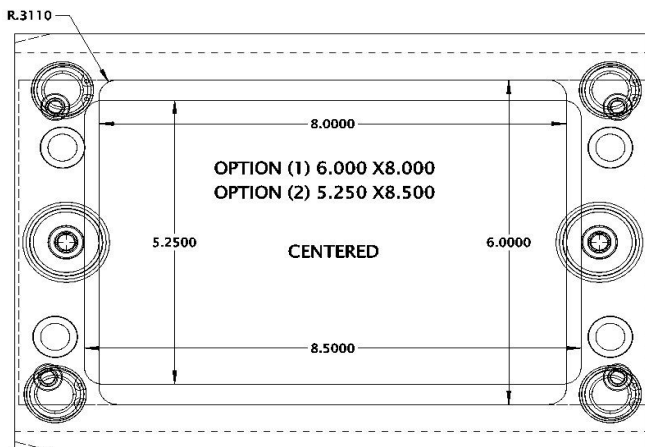
10/12 CTLU laminated pockets
maximum through size



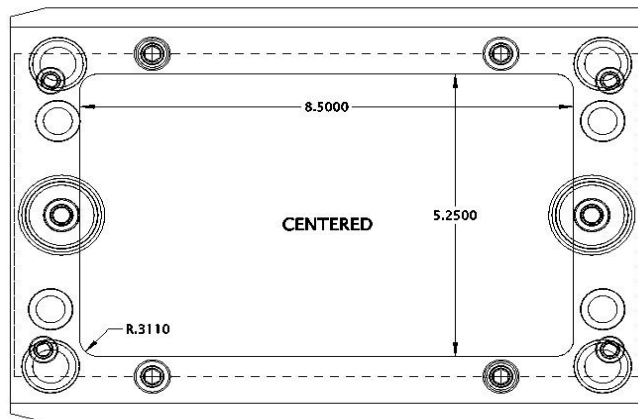
10/12 CXSU solid pocket
maximum size



10/12 CSLU laminated pocket
maximum size



10/12 CXSU solid pocket
maximum size

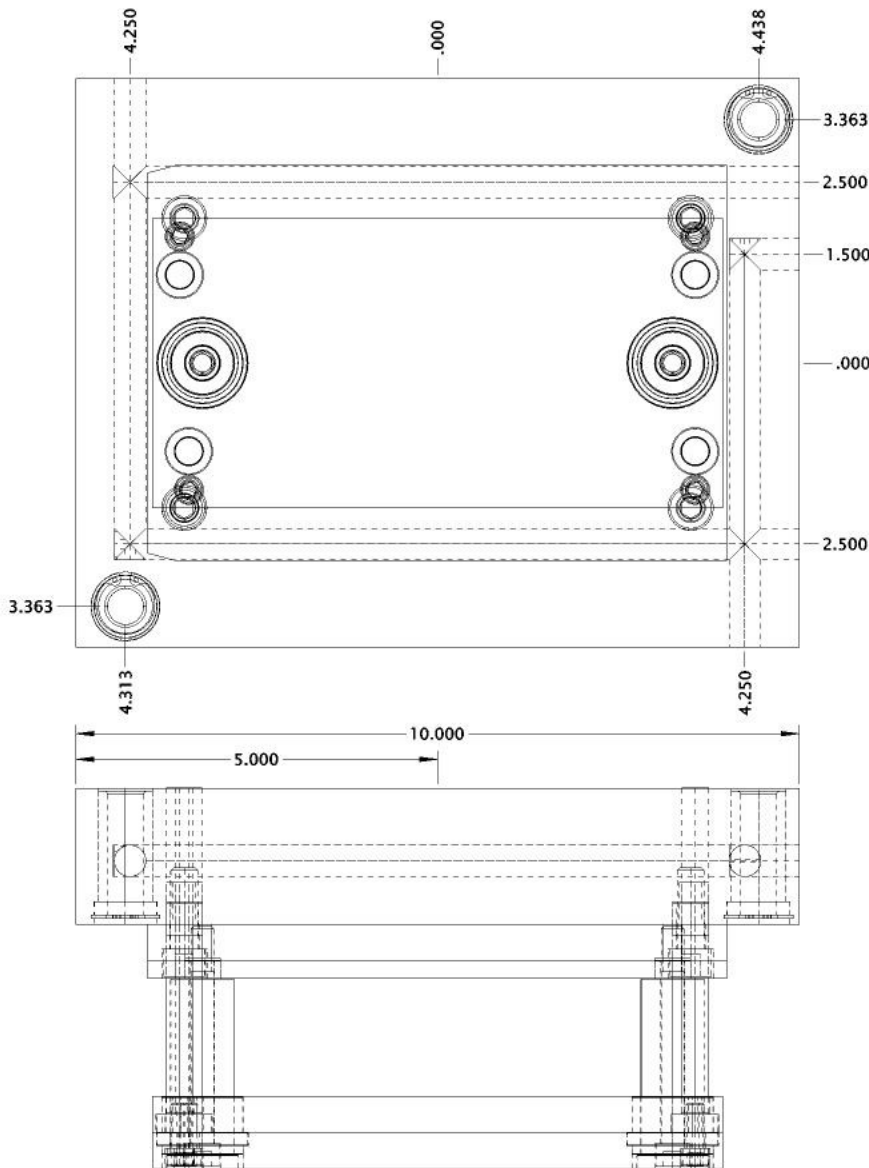


10/12 CSLU laminated pocket
maximum size

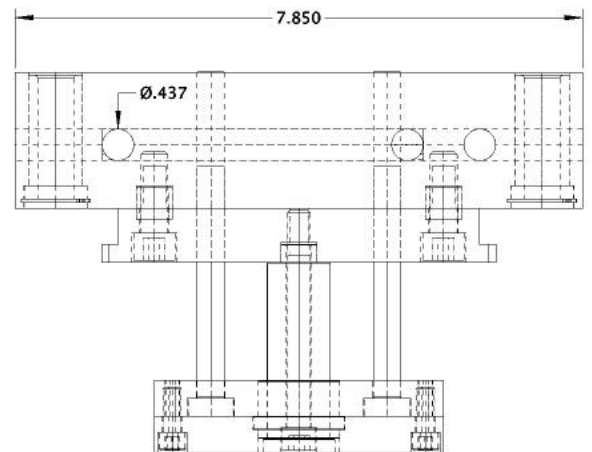
C-08/09 WATERLINES

Shown in a (modified) C-TLU

Cross Tool incorporates waterlines into the manufacturing process saving you time and money. Your choices include gun-drilled holes for waterlines, or cartridge heating elements. With a simple layout drawing or sketch we can provide a competitive quote. Threaded holes can be added for a nominal extra fee.



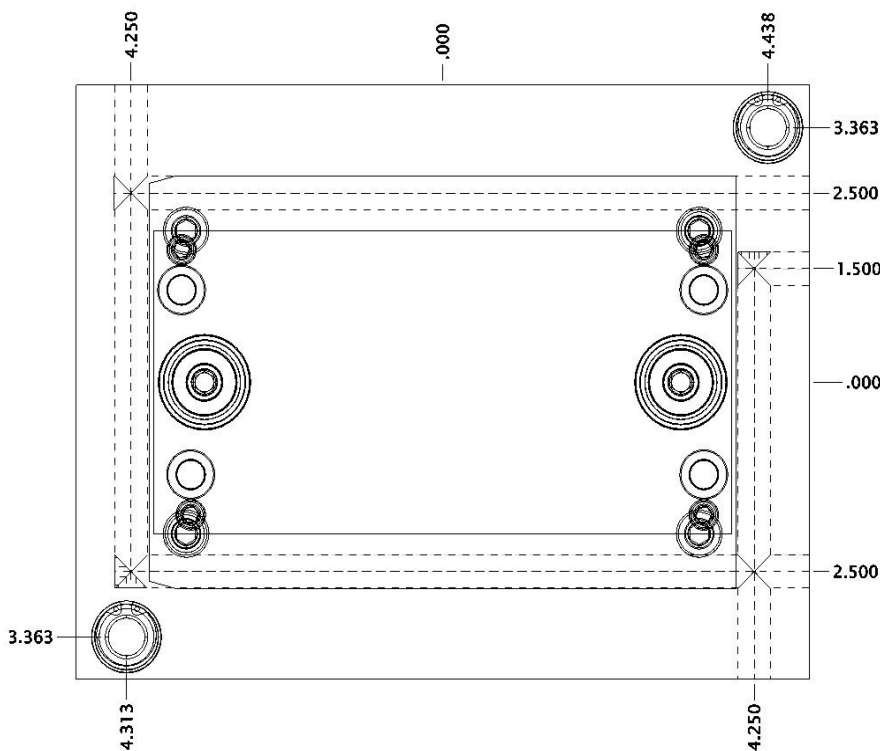
All C-TLU'S can be modified in length and width to accommodate cams or waterlines. Leader Pin locations can be moved. 2 more Leader Pins and Bushings can be added for an additional cost. All ear-plate and ejector locations will stay the same. All guided ejection and return pins options are available. (see Page 6)



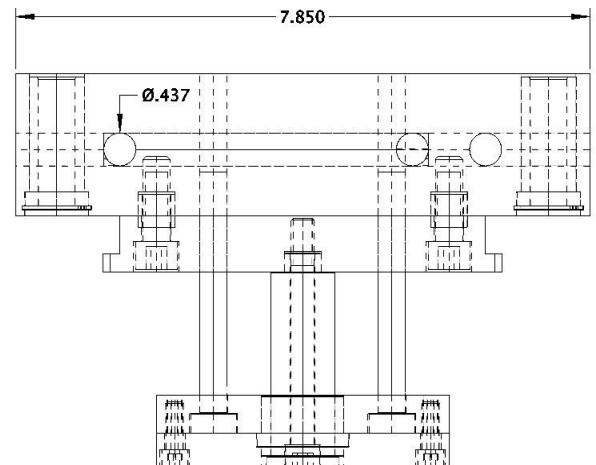
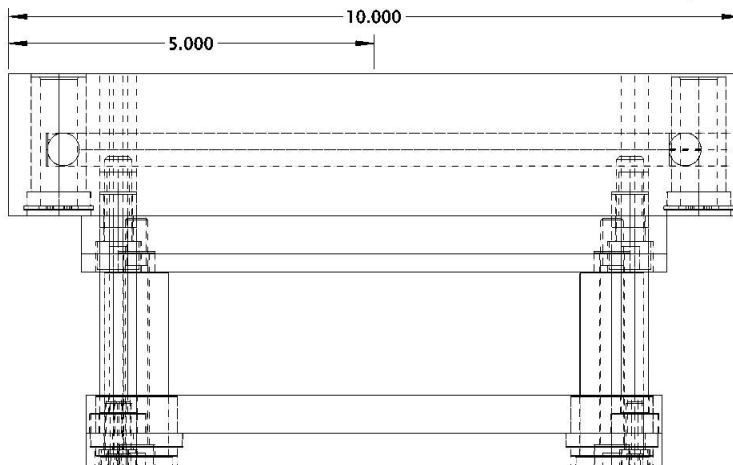
C-84/90 WATERLINES

Shown in a (modified) C-TLU

Cross Tool incorporates waterlines into the manufacturing process saving you time and money. Your choices include gun-drilled holes for waterlines, or cartridge heating elements. With a simple layout drawing or sketch we can provide a competitive quote. Threaded holes can be added for a nominal extra fee.



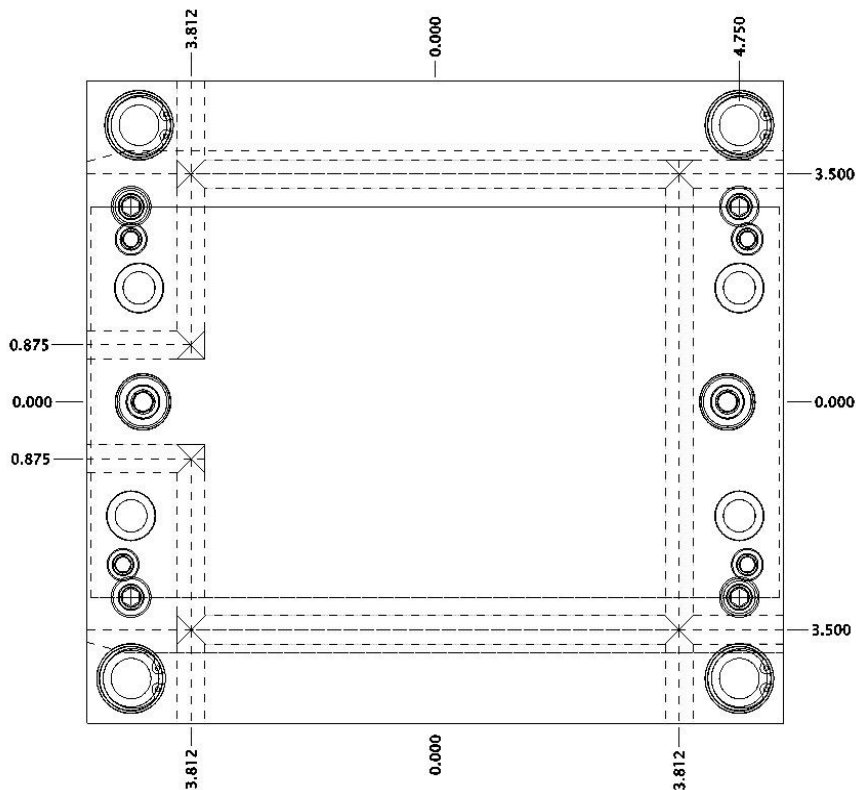
All C-TLU'S can be modified in length and width to accommodate cams or waterlines. Leader Pin locations can be moved. 2 more Leader Pins and Bushings can be added for an additional cost. All ear-plate and ejector locations will stay the same. All guided ejection and return pins options are available. (see Page 14)



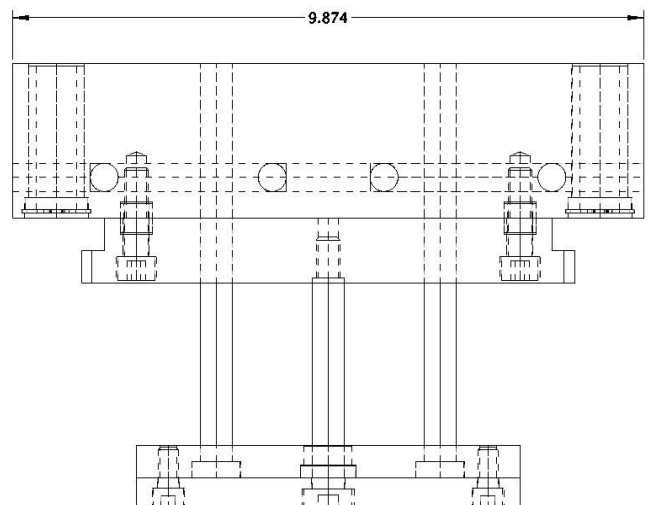
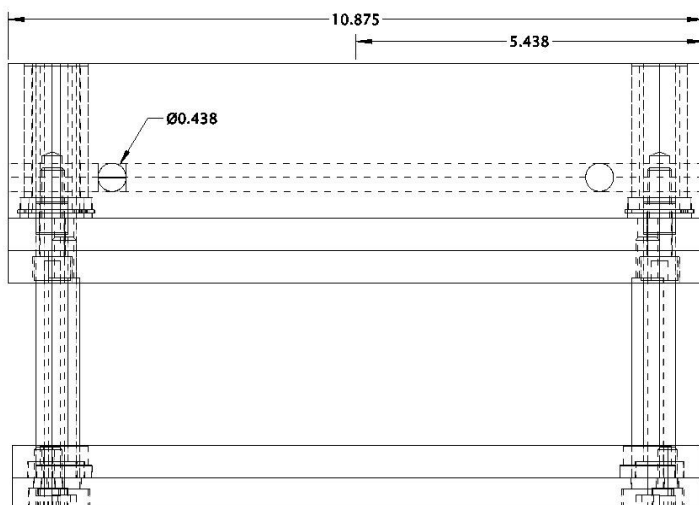
C-10/12 WATERLINES

Shown in a standard C-TLU

Cross Tool incorporates waterlines into the manufacturing process saving you time and money. Your choices include gun-drilled holes for waterlines, or cartridge heating elements. With a simple layout drawing or sketch we can provide a competitive quote. Threaded holes can be added for a nominal extra fee.



All C-TLU'S can be modified in length and width to accommodate cams or waterlines. Leader Pin locations can be moved. 2 more Leader Pins and Bushings can be added for an additional cost. All ear-plate and ejector locations will stay the same. All guided ejection and return pins options are available. (see Page 22)



INTERCHANGEABLE MOLDING INSERTS

"A" & "B" dimensions are supplied .000" to .001" oversize at parting line unless otherwise specified.

STANDARD SOLID INSERT **C-XSU**

Standard Solid Inserts are designed to fit into "U" Series Mold Base Frames. A SSU is made up of a two plate design, which consists of a solid "A" plate and a solid "B" plate.

STANDARD LAMINATED INSERT **C-SLU**

Standard Laminated Inserts are designed to fit into "U" Series Mold Base Frames. A SLU is made up of a four plate design. The SLU Molding Insert is made up of both "A" and "B" ear plates that clamp into the U-Frame, and "A2" and "B2" plates that can be separated allowing for Core Pin and through pocket machining.

T-STYLE LAMINATED INSERT **C-TLU**

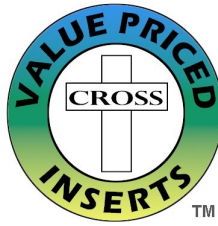
T-Style Laminated Inserts are designed to fit into "U" Series Mold Base Frames. A TLU is made up of a four plate design. The TLU Molding Insert is made up of both "A" and "B" ear plates that clamp into the U-Frame, and "A2" and "B2" plates that can be separated allowing for Core Pin and through pocket machining. The T-Style Insert overhangs the U-Frame, this allows additional Mold Base area for maximum molding capacity. TLU's are shipped with loose ear plates.

STEEL GRADES AVAILABLE:

- Standard materials for inserts are P-20 Prehard, Holder Block (#2). Other grades available: H-13 Standard or Premium, 420 Stainless Prehard, S-7 and ALUMOLD®¹ (comparable to QC7®²)
- Standard material for Frames is Holder Block (#2).
- OTHER MATERIALS FOR FRAMES/INSERTS ARE AVAILABLE UPON REQUEST.

(NOTE: Shoulder Leader Pins & Bushings are retained with Snap Rings.)

Yes, We still build all of our standard Products. U-Frames and inserts through 14/16 size, and H-Frame inserts. We do not build H-Frames.



“U” SERIES MOLD BASE FRAMES

The U-Frame is a “U” shaped Mold Base Frame designed to hold a SSU, SLU, or TLU Molding Insert of the same series. U-Frames are designed to run millions of cycles and allow for fast changeovers. All of our larger U-Frames include SEPU Slots in standard pricing. Our 84/90 Series includes mounting holes and clamping plates which overhang ½" per side.

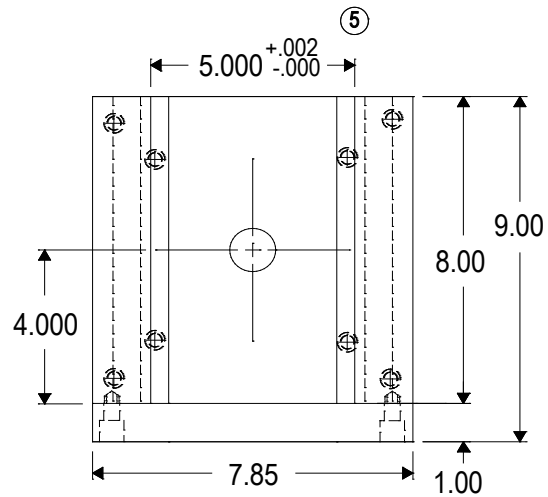
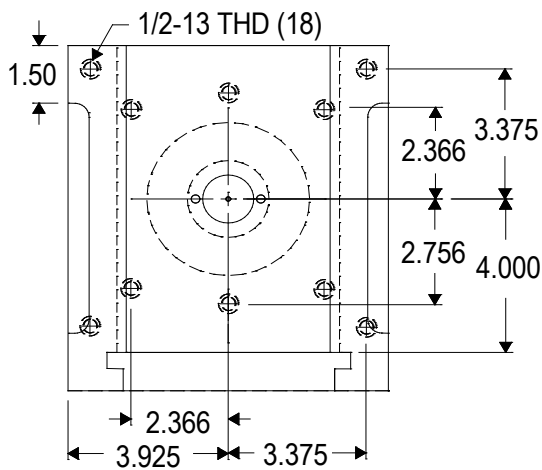
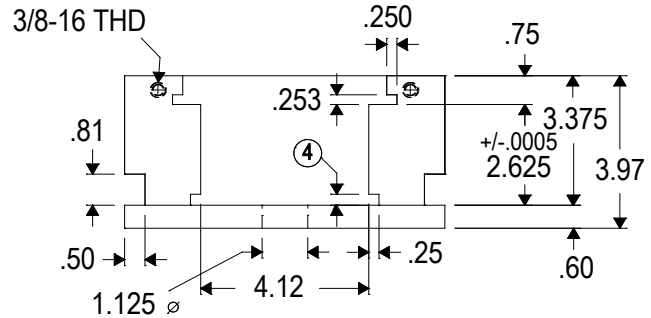
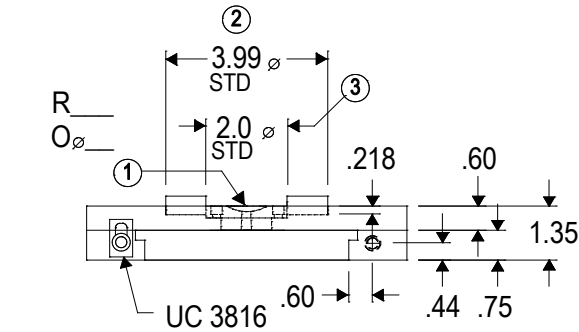
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10/12 Mold Base U-Frame	63
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11/11 Mold Base U-Frame	65

08/09 U-Frame

U-FRAME

Catalog #	08/09 UF 321
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① Sprue Bushing information:
O=Small Dia. of Sprue Bushing Orifice: 5/32", 7/32", 9/32"

R=Spherical Radius of Sprue Bushing: 1/2" or 3/4"

② Optional Locating Rings are available (Industry Standard)

③ 2" or 2½" clearance through hole is available (No Sprue Bushing)

④ Tapered Slot at .25 Degree to accommodate Sleeve Ejector Plate (SEPU)

⑤ 3/8 X 5 Degree Lead-in

ORDERING INFORMATION

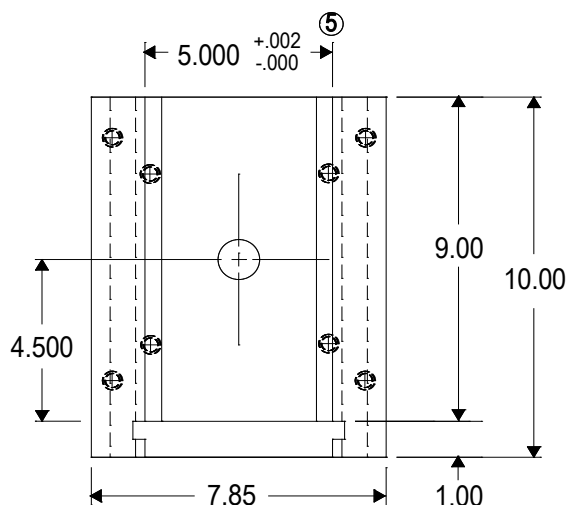
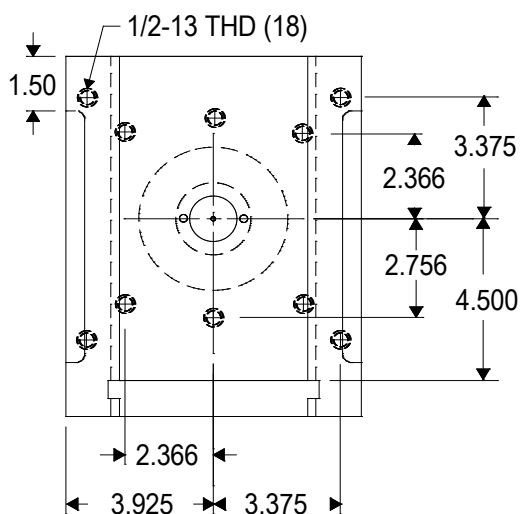
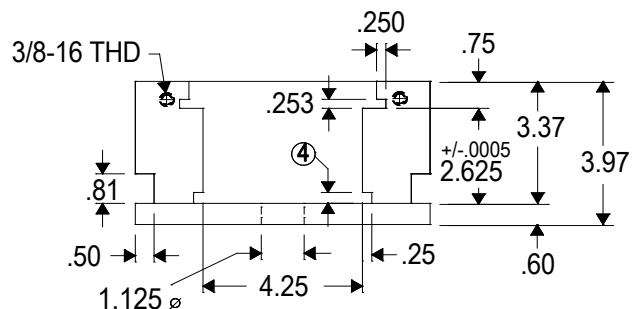
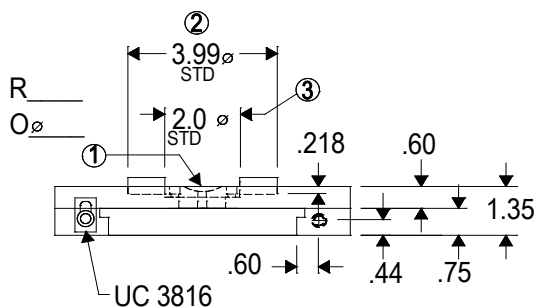
FRAMES

- Please specify Quantity & Catalog #
- Specify Locating Ring Diameter & Sprue Bushing R & O sizes
- Standard Material for Frames is Holder Block (#2)

08/10 U-Frame

U-FRAME

Catalog #	08/10 UF 321
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- ① Sprue Bushing information:
O=Small Dia. of Sprue Bushing Orifice: 5/32", 7/32", 9/32"
R=Spherical Radius of Sprue Bushing: 1/2" or 3/4"
- ② Optional Locating Rings are available (Industry Standard)

- ③ 2" or 2½" clearance through hole is available (No Sprue Bushing)
- ④ Tapered Slot at .25 Degree to accommodate Sleeve Ejector Plate (SEPU)
- ⑤ 3/8 X 5 Degree Lead-in

ORDERING INFORMATION

FRAMES

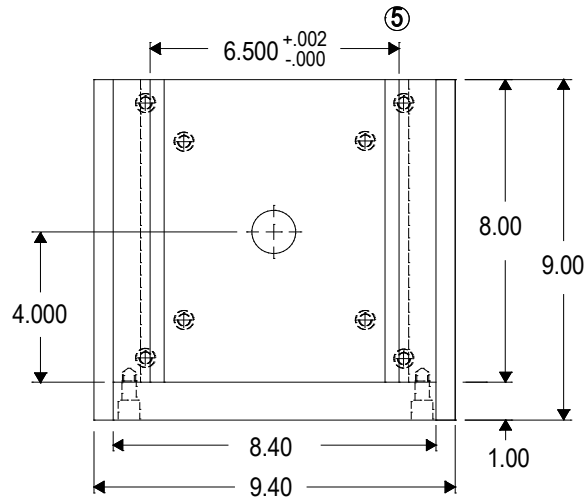
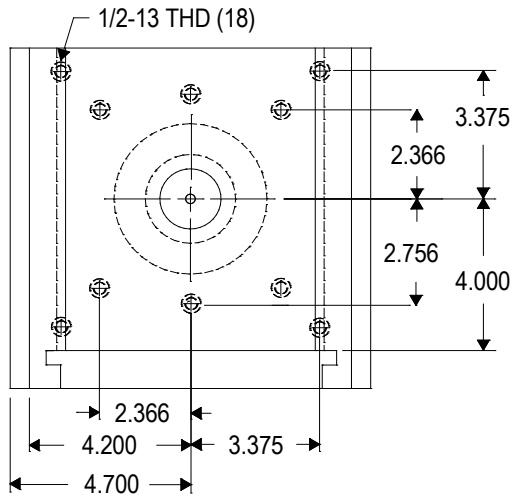
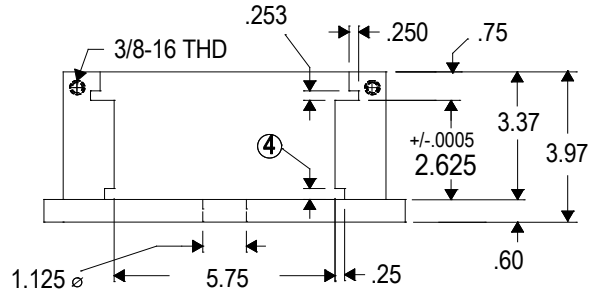
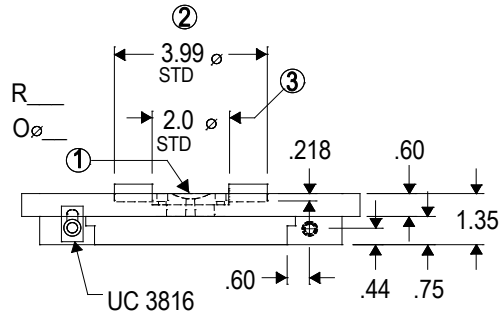
- Please specify Quantity & Catalog #
- Specify Locating Ring Diameter & Sprue Bushing R & O sizes
- Standard Material for Frames is Holder Block (#2)

84/90 U-Frame

U-FRAME

Catalog #	84/90 UF 321
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Note: This size includes Mounting Holes & Extended Clamp Plates in standard pricing



- ① Sprue Bushing information:
 O=Small Dia. of Sprue Bushing Orifice: 5/32", 7/32", 9/32"
 R=Spherical Radius of Sprue Bushing: 1/2" or 3/4"
 ② Optional Locating Rings are available (Industry Standard)

- ③ 2" or 2½" clearance through hole is available (No Sprue Bushing)
 ④ Tapered Slot at .25 Degree to accommodate Sleeve Ejector Plate (SEPU)
 ⑤ 3/8 X 5 Degree Lead-in

ORDERING INFORMATION

FRAMES

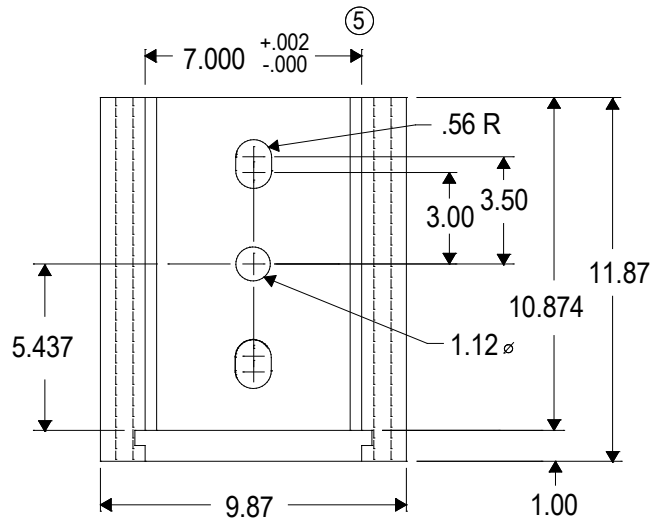
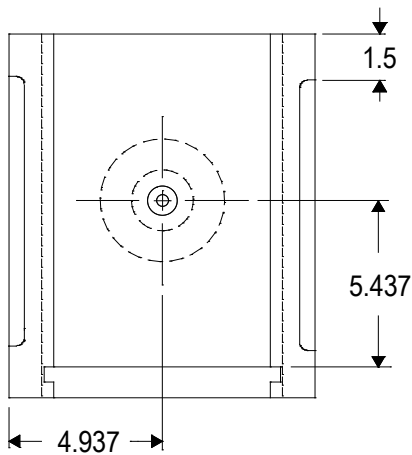
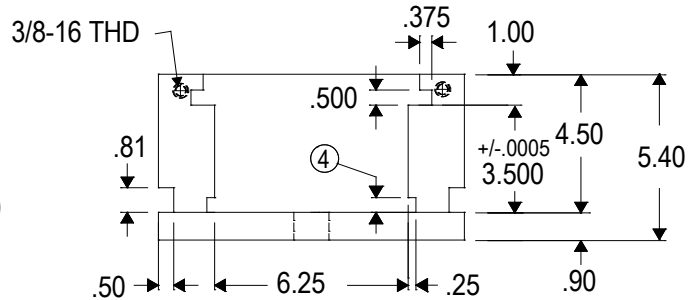
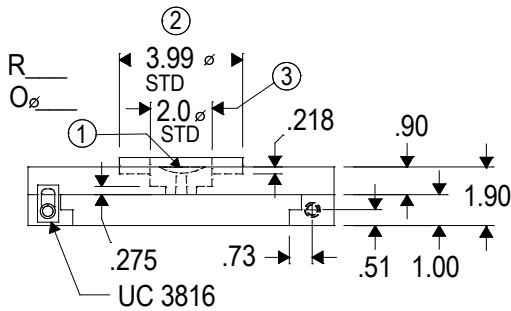
- Please specify Quantity & Catalog #
- Specify Locating Ring Diameter & Sprue Bushing R & O sizes
- Standard Material for Frames is Holder Block (#2)

10/12 U-Frame

Note: This size includes SEPU
Slots in standard pricing

U-FRAME

Catalog #	10/12 UF 321
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① Sprue Bushing information:
O=Small Dia. of Sprue Bushing Orifice: 5/32", 7/32", 9/32"

R=Spherical Radius of Sprue Bushing: 1/2" or 3/4"

② Optional Locating Rings are available (Industry Standard)

③ 2" or 2½" clearance through hole is available (No Sprue Bushing)

④ Tapered Slot at .25 Degree to accommodate Sleeve Ejector Plate (SEPU)

⑤ 3/8 X 5 Degree Lead-in

ORDERING INFORMATION

FRAMES

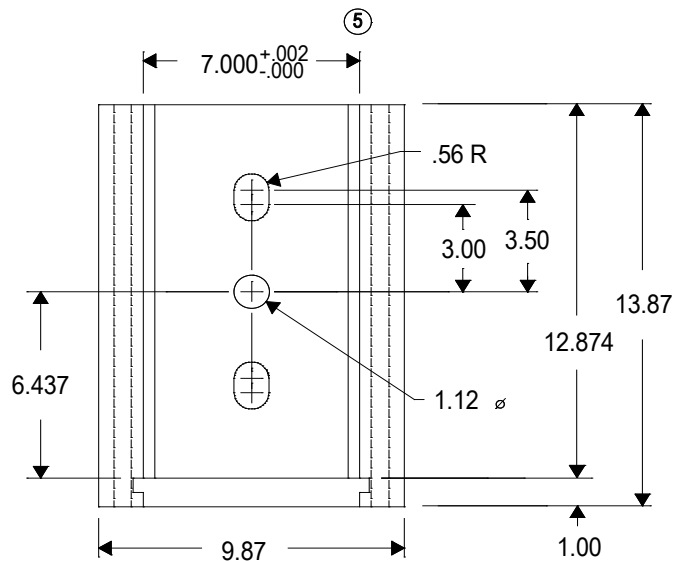
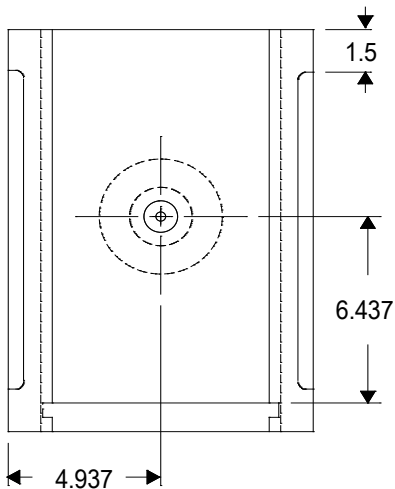
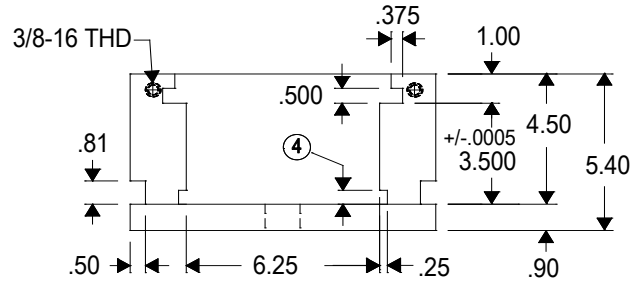
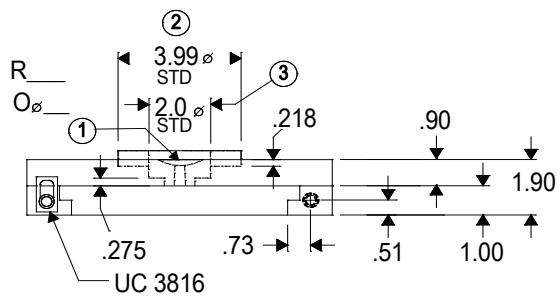
- Please specify Quantity & Catalog #
- Specify Locating Ring Diameter & Sprue Bushing R & O sizes
- Standard Material for Frames is Holder Block (#2)

10/14 U-Frame

Note: This size includes SEPU
Slots in standard pricing

U-FRAME

Catalog #	10/14 UF 321
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- ① Sprue Bushing information:
O=Small Dia. of Sprue Bushing Orifice: 5/32", 7/32", 9/32"
R=Spherical Radius of Sprue Bushing: 1/2" or 3/4"
- ② Optional Locating Rings are available (Industry Standard)

- ③ 2" or 2½" clearance through hole is available (No Sprue Bushing)
- ④ Tapered Slot at .25 Degree to accommodate Sleeve Ejector Plate (SEPU)
- ⑤ 3/8 X 5 Degree Lead-in

ORDERING INFORMATION

FRAMES

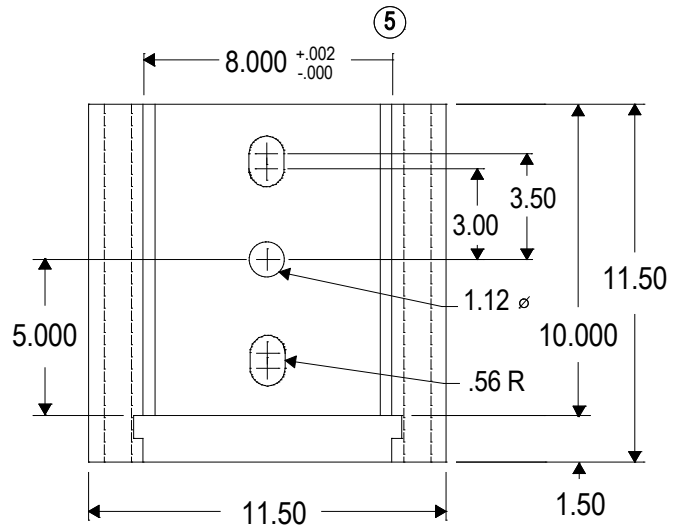
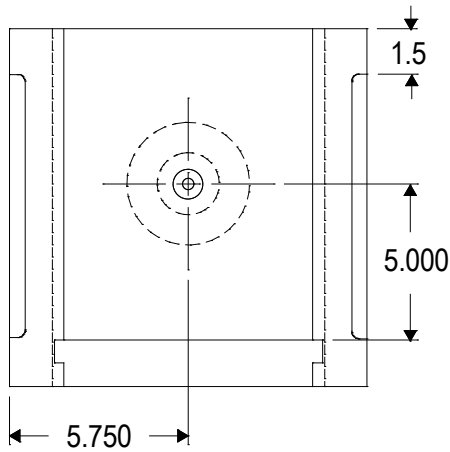
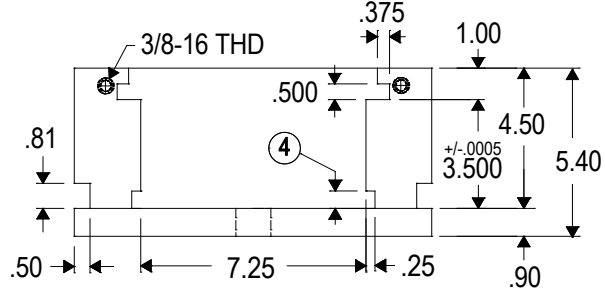
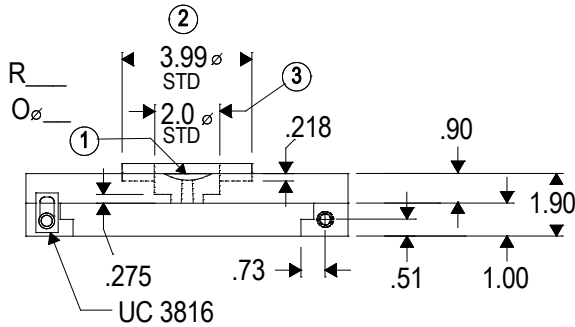
- Please specify Quantity & Catalog #
- Specify Locating Ring Diameter & Sprue Bushing R & O sizes
- Standard Material for Frames is Holder Block (#2)

11/11 U-Frame

Note: This size includes SEPU
Slots in standard pricing

U-FRAME

Catalog #	11/11 UF 321
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① Sprue Bushing information:
O=Small Dia. of Sprue Bushing Orifice: 5/32", 7/32", 9/32"

R=Spherical Radius of Sprue Bushing: 1/2" or 3/4"

② Optional Locating Rings are available (Industry Standard)

③ 2" or 2½" clearance through hole is available (No Sprue Bushing)

④ Tapered Slot at .25 Degree to accommodate Sleeve Ejector Plate (SEPU)

⑤ 3/8 X 5 Degree Lead-in

ORDERING INFORMATION

FRAMES

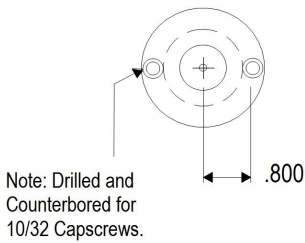
- Please specify Quantity & Catalog #
- Specify Locating Ring Diameter & Sprue Bushing R & O sizes
- Standard Material for Frames is Holder Block (#2)



COMPONENT INDEX

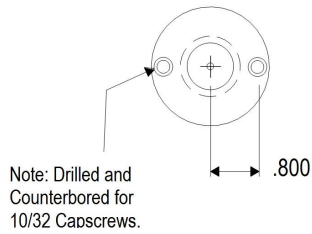
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C-10/12, 10/14 and 11/11 Components.....	71
C-SERIES: Ear Plate, Ejector Plates, and Sleeve Ejector Plates	72

FRAME COMPONENTS



Catalog #
SB-101

Note: The SB-101 is designed for the following frames: 07/07 UF 321, 08/09 UF 321, 84/90 UF 321 & 08/10 UF 321



Catalog #
SB-102

Note: The SB-102 is designed for the 10/12 UF 321 and larger U-Frames

SPRUE BUSHING ORDERING INFORMATION

Please specify R & O Sizes:

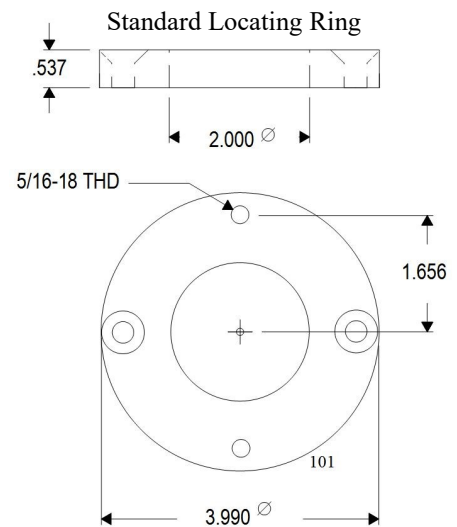
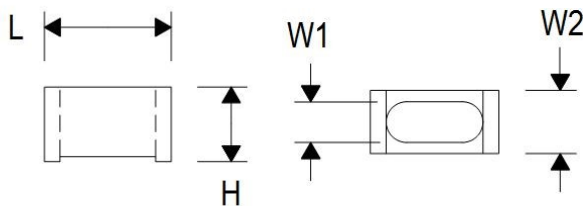
R = Spherical Radius of Sprue Bushing:
1/2" or 3/4"

O = Small Diameter of Sprue Bushing Orifice:
5/32", 7/32", 9/32"

Locating Rings

Catalog #	INSIDE DIA.	THICK-NESS
LR-3990-2	2.000	.531
LR-3990-2.5	2.500	.531
LR-3990-2-1.12	2.000	1.125
LR-3990-2.5-1.12	2.500	1.125

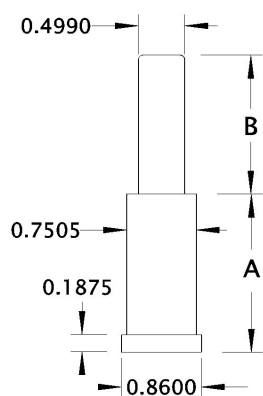
Frame Holding Clamps				
Catalog #	L	H	W1	W2
UC-2520	1.00	.50	0.27	0.50
UC-3816	1.25	.75	0.40	0.62



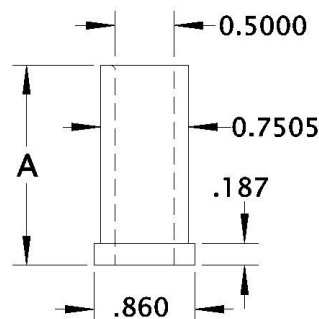
*Other size Locating Rings available upon request.

C-SERIES LEADER PINS AND BUSHINGS

08/09 and 08/10 C-SLU Pins and Bushings

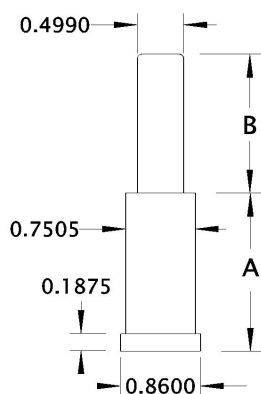


Catalog #	A	B
P5-1085-1	1.085	1.000
P5-1585-12	1.585	.1250
P5-1585-17	1.585	1.750
P5-2085-12	2.085	1.250
P5-2085-17	2.085	1.750

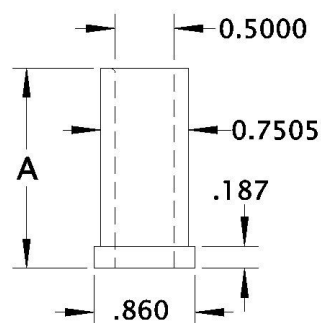


Catalog #	A
B5-1085	1.085
B5-1585	1.585
B5-2085	2.085

84/90 C-SLU Pins and Bushings

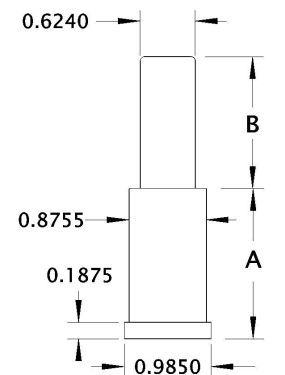


Catalog #	A	B
P5-1335-12	1.335	1.250
P5-1335-17	1.335	1.750
P5-1835-12	1.835	1.250
P5-1835-17	1.835	1.750
P5-2335-12	2.338	1.250
P5-2335-17	2.335	1.750

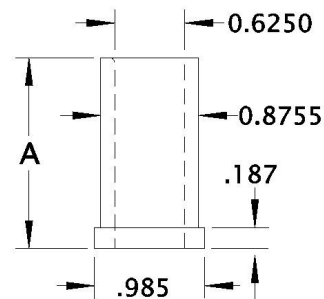


Catalog #	A
B5-1335	1.335
B5-1835	1.835
B5-2335	2.335

10/12, 10/14 and 11/11 C-SLU Pins and Bushings



Catalog #	A	B
P6-1335-12	1.335	1.250
P6-1335-17	1.335	1.750
P6-1835-12	1.835	1.250
P6-1835-17	1.835	1.750
P6-2335-12	2.335	1.250
P6-2335-17	2.335	1.750



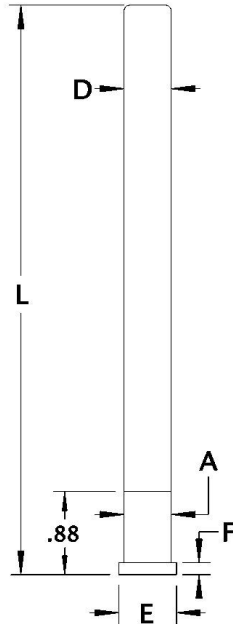
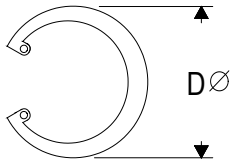
Catalog #	A
B6-1335	1.335
B6-1835	1.835
B6-2335	2.335

Straight Leader Pin

Snap Rings

Catalog #	Pin Ø	D
SR-62	SP-5	.625
SR-88	0.500 Ø	0.88
SR-100	0.625 Ø	1.00

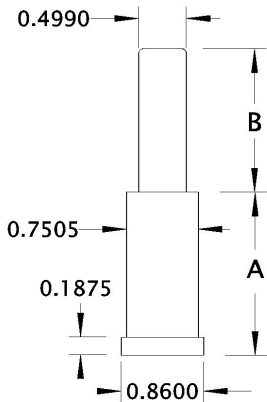
Snap Ring



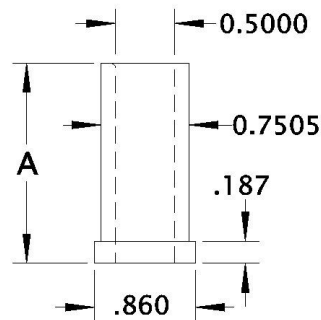
Catalog #	A	D	L	E	F
SP 5-4.0	0.5005	0.499	4.0	0.610	0.125
SP 5-4.5	0.5005	0.499	4.5	0.610	0.125
SP 5-5.0	0.5005	0.499	5.0	0.610	0.125
SP 5-5.5	0.5005	0.499	5.5	0.610	0.125
SP 5-6.0	0.5005	0.499	6.0	0.610	0.125
SP 5-6.5	0.5005	0.499	6.0	0.610	0.125
SP 5-7.0	0.5005	0.499	6.0	0.610	0.125

Catalog #	A	D	L	E	F
SP 6-4.0	0.6255	0.624	4.0	0.860	0.187
SP 6-4.5	0.6255	0.624	4.5	0.860	0.187
SP 6-5.0	0.6255	0.624	5.0	0.860	0.187
SP 6-5.5	0.6255	0.624	5.5	0.860	0.187
SP 6-6.0	0.6255	0.624	6.0	0.860	0.187
SP 6-6.5	0.6255	0.624	6.5	0.860	0.187
SP 6-7.0	0.6255	0.624	7.0	0.860	0.187

08/09, 08/10 & 84/90 C-XSU And C-TLU Pins and Bushings

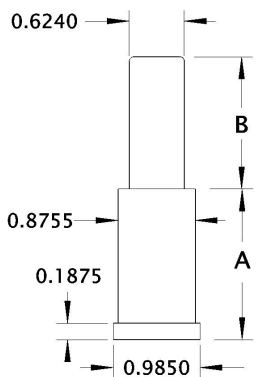


Catalog #	A	B
P5-1210-12	1.210	1.250
P5-1210-17	1.210	1.750
P5-1710-12	1.710	1.250
P5-1710-17	1.710	1.750
P5-2210-17	2.210	1.750
P5-2710-17	2.710	1.750

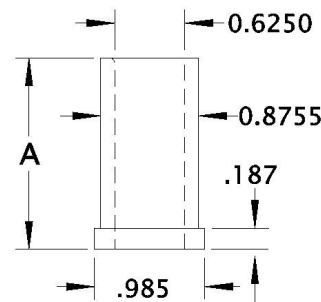


Catalog #	A
B5-1210	1.210
B5-1710	1.710
B5-1835	1.835
B5-2210	2.210
B5-2710	2.710

10/12, 10/14 and 11/11 C-XSU And C-TLU Pins and Bushings



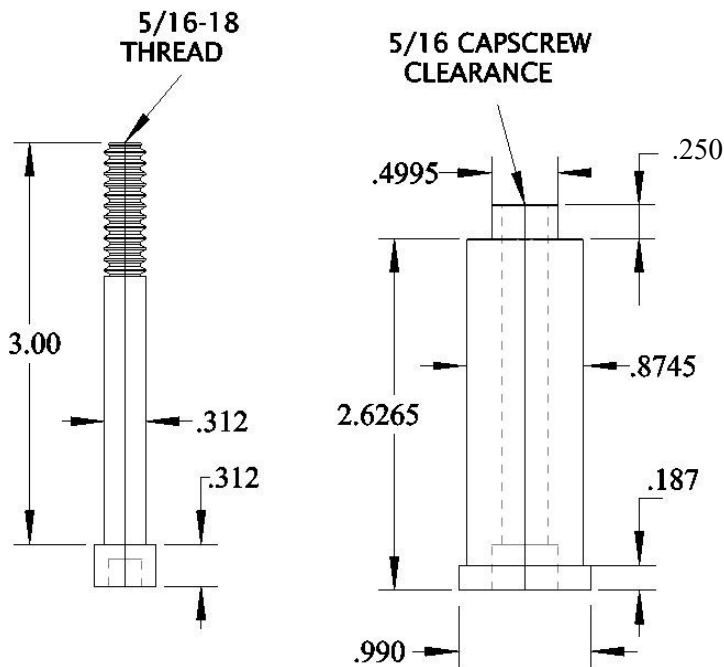
Catalog #	A	B
P6-1210-12	1.210	1.250
P6-1710-12	1.710	1.250
P6-1710-17	1.710	1.750
P6-2210-12	2.210	1.250
P6-2210-17	2.210	1.750
P6-2710-12	2.710	1.250
P6-2710-17	2.710	1.750
P6-3210-17	3.210	1.750
P6-3710-17	3.710	1.750



Catalog #	A
B6-835	0.835
B6-1210	1.210
B6-1710	1.710
B6-2210	2.210
B6-2710	2.710
B6-3210	3.210
B6-3710	3.210

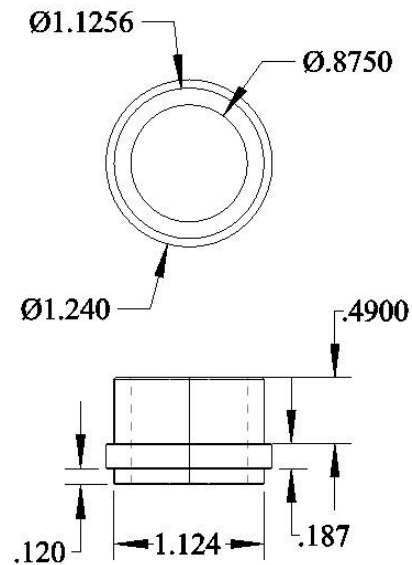
C-08/09, C-08/10 & C-84/90 COMPONENTS

Components for the 08/09, 08/10 & 84/90 Guide Support Pillar (GSP)



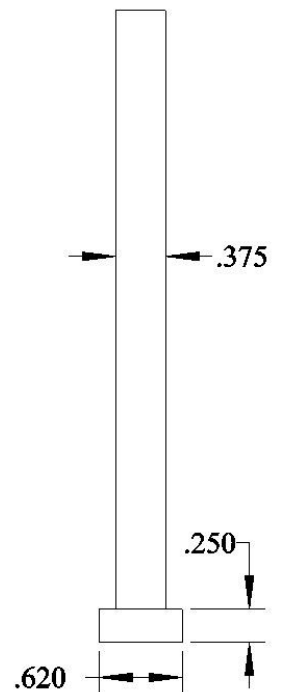
GSP-B-3
5/16-16 X 3 CAPSCREW

GP-826
GUIDED SUPPORT PILLAR

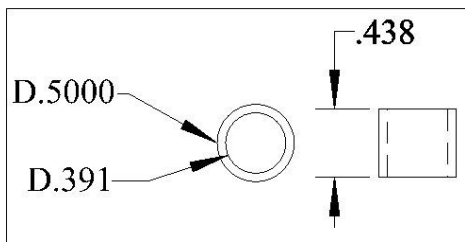


AGB-875
BRONZE BUSHING

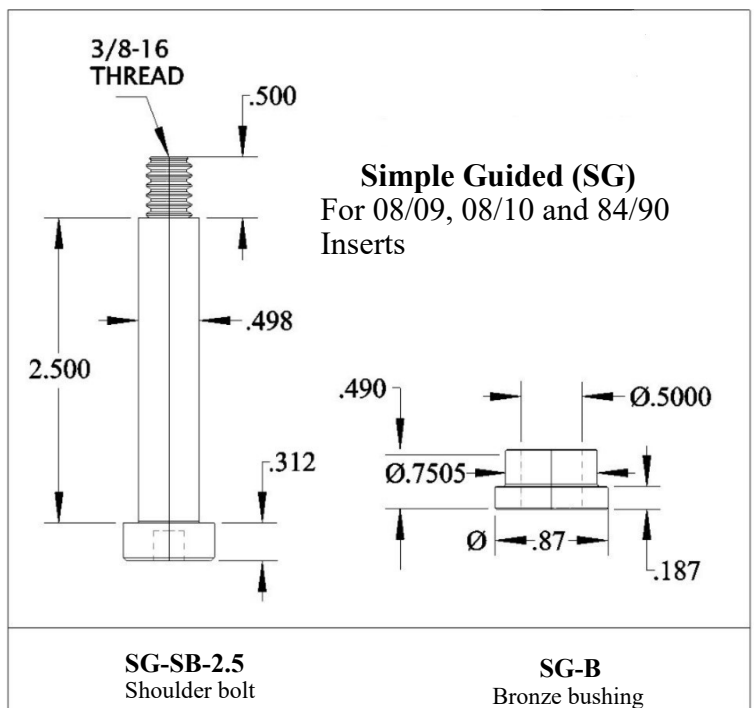
RETURN PIN



EJ-38-L6
EJ-38-L10
Cut to length
available



TD-500 Tubular dowel



SG-SB-2.5
Shoulder bolt

SG-B
Bronze bushing

EJB-1/4-20 X 5/8
Ejector bolts:
All 08/09, 08/10 and
84/90 C-SERIES
Ejector plates

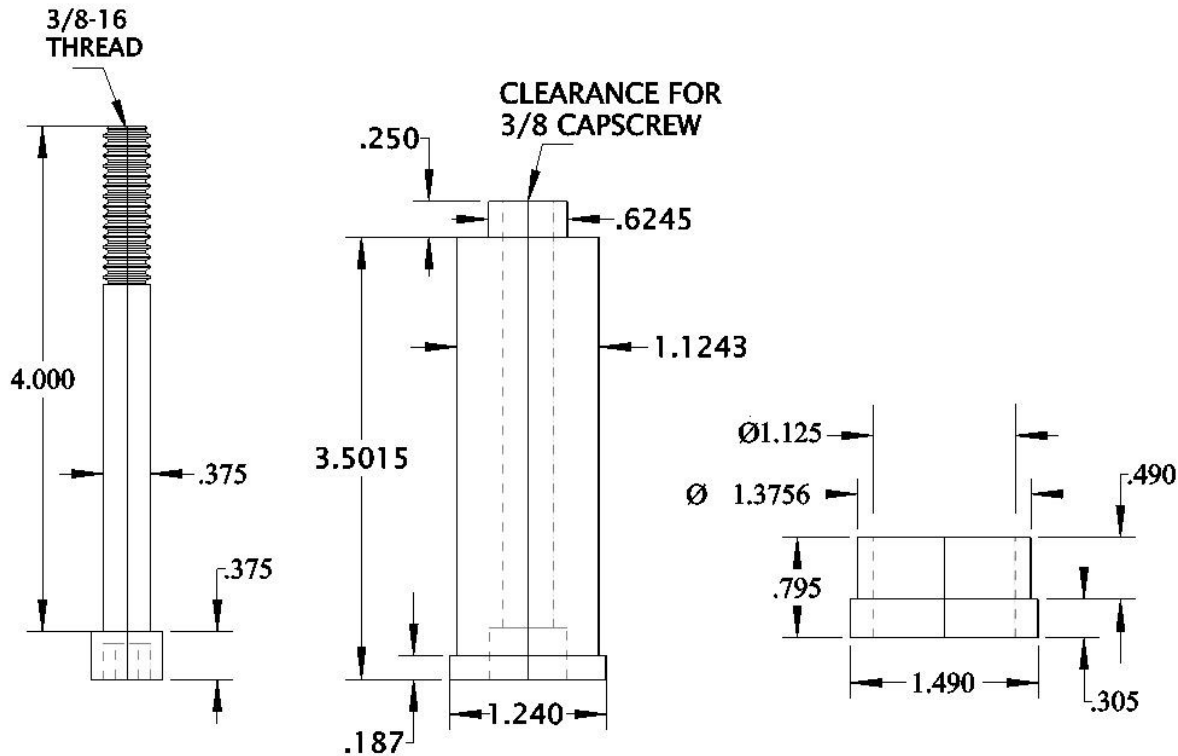
74

EPB-3/8-16 X 1 1/8
Ear plate bolts:
08/09 & 08/10 C-SLU
08/09 & 08/10 C-TLU
84/90 C-TLU

EPB-3/8-16 X 1
Ear plate bolts:
84/90 C-SLU

C-10/12, C-10/12 and C-11/11 COMPONENTS

Components for the 10/12, 10/14 & 11/11 Guided support Pillar (GSP)

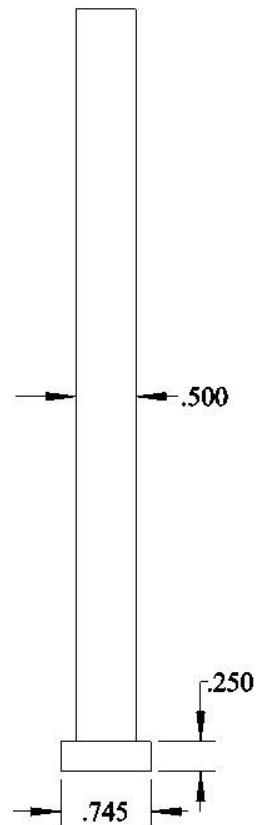


GSP-B-4
5/16-16 X 3 CAPSCREW

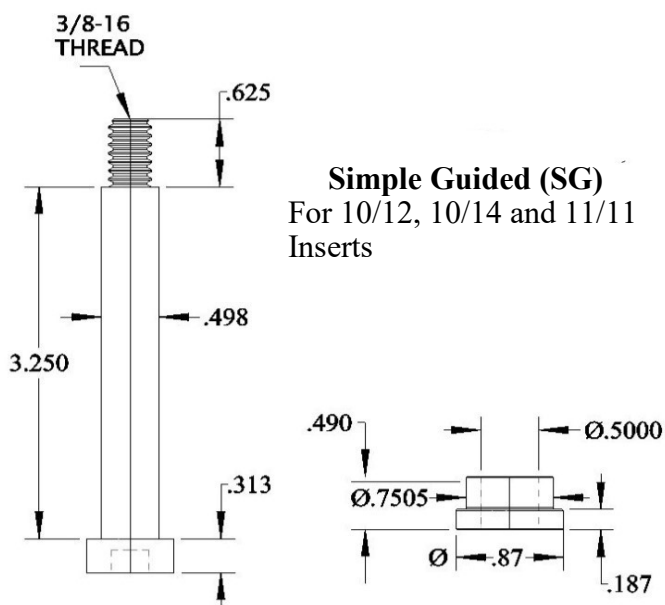
GP-1.125-35
GUIDED SUPPORT PILLAR

AGB-1.125
BRONZE BUSHING

RETURN PIN

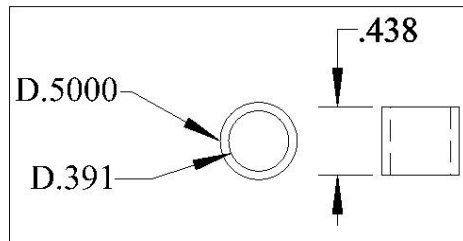


EJ-50-L6
EJ-50-L10
Cut to length
available

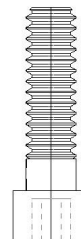


SG-SB-3.25
Shoulder bolt

SG-B
Bronze bushing

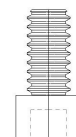


TD-500 Tubular dowel



EPB-3/8-16 X 1 3/8

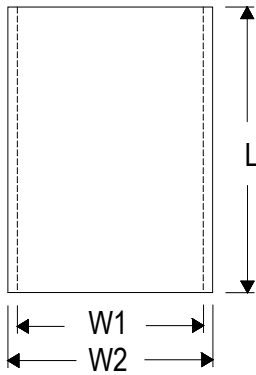
Ear plate bolts:
All 10/12, 10/14 & 11/11
C-SLU and C-TLU Ear
plates



EJB-5/16-18 X 5/8

Ejector bolts:
All 10/12, 10/14 & 11/11
C-SERIES Ejector plates

Ear Plates



Note: Ear Plates are sold in a set of (2) plates. Steel grade is Holder Block (#2).

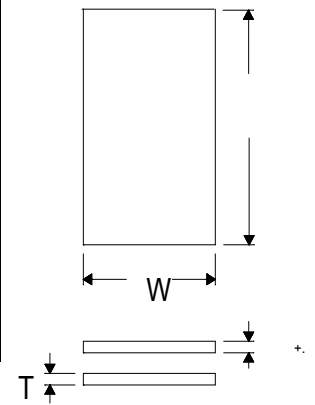
Ear Plates for T-Style Molding Inserts

Catalog #	L	W1	W2	D	E	T
08/09 EPU	8.000	4.996	5.456	.230	.246	0.750
08/10 EPU	9.000	4.996	5.456	.230	.246	0.750
84/90 EPU	8.000	6.496	6.956	.230	.246	0.750
10/12 EPU	10.874	6.996	7.716	.360	.494	1.000
10/14 EPU	12.874	6.996	7.716	.360	.494	1.000
11/11 EPU	10.000	7.996	8.716	.360	.494	1.000

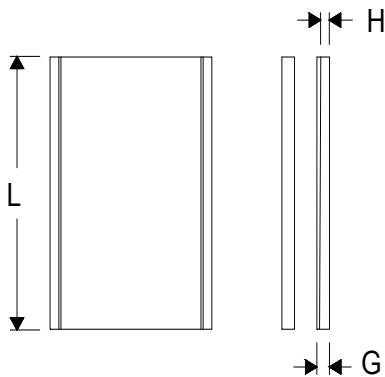


Standard Ejector Plates

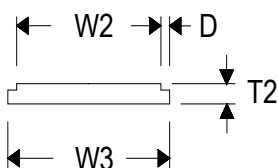
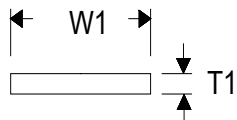
Standard Ejector Plate Sets for U-Frame				
Catalog #	L	W	T1	T2
08/09 C-EJU	7.88	4.00	0.500	.500
08/09 C-EJU	8.88	4.00	0.500	.500
84/90 C-EJU	7.88	5.50	0.500	0.500
10/12 C-EJU	10.75	6.00	0.500	0.500
10/12 C-EJU	10.75	6.00	0.500	0.500
10/12 C-EJU	10.75	6.00	0.500	0.500



Sleeve Ejector Plates



Sleeve Ejector Plate Assemblies									
Catalog #	L	H	G	W1	W2	W3	D	T1	T2
08/09 SEPU	7.88	0.247	0.283	4.00	4.00	4.50	.25	0.360	0.360
08/10 SEPU	8.88	0.248	0.287	4.00	4.00	4.50	.25	0.360	0.360
84/90 SEPU	7.88	0.247	0.283	5.50	5.62	6.12	.25	0.360	0.360
10/12 SEPU	10.75	0.429	0.477	6.00	6.12	6.62	.25	0.480	0.480
10/14 SEPU	12.75	0.420	0.477	6.00	6.12	6.62	.25	0.480	0.480
11/11 SEPU	9.88	0.287	0.331	7.00	7.12	6.62	.25	0.360	0.360



ORDERING INFORMATION

EAR PLATES

- Please specify Quantity & Catalog # (Catalog # is for a set of (2) plates)
- Material grade is Holder Block (#2)
- First four digits of catalog # must match those of Molding Insert

EJECTOR PLATES: STANDARD OR SLEEVE

- Please specify Quantity & Catalog # (Catalog # is for a set of (2) plates)
- Material grade is 1018 Steel
- First four digits of catalog # must match those of Molding Insert

1000 E. Butler Ave., Suite 102
 Flagstaff, AZ 86001
Toll Free: 1-800-832-3993
 Phone: (928) 779-4218
 Fax: (928) 556-3048



CREDIT APPLICATION

CROSS TOOL & MFG., INC.

Date: _____

(Note: Failure to complete forms **IN FULL AND LEGIBLY** WILL RESULT IN A DELAY IN PROCESSING)

BUSINESS INFORMATION

Business Name:		Phone:	
D.B.A.:		Fax:	
Address:		Shipping Address:	
City:		City:	
State:	Zip:	State:	Zip:

Initial Amount of Credit Requested ☐ \$500 ☐ \$1000 ☐ \$2000 ☐ Other _____

(Please include a completed Resale Exemption Certificate with Credit Application if applicable.)

Fed. Tax I.D. #: _____	Resale Tax #: _____
Date Established: _____	Number of Employees: _____
Type of Business: _____	
Principal (Printed Name, Title): _____	Please check one:
Principal (Signature, Date): _____	<input type="checkbox"/> Sole Owner <input type="checkbox"/> Corporation
Accounts Payable Contact: _____	<input type="checkbox"/> Partnership <input type="checkbox"/> LLC

BANK REFERENCES

Account #:	Type of Account:	
Bank:	<input type="checkbox"/> Checking	<input type="checkbox"/> Loan
Street:	<input type="checkbox"/> Other _____	
City/State/Zip:	Phone:	Fax:

TRADE REFERENCES

Company Name:	Address :	City, State, Zip:	Phone and Fax #'s:
Contact:			Phone:
			Fax:
Contact:			Phone
			Fax:
Contact:			Phone:
			Fax:

Terms: 2%10/Net 30. Applicant agrees to adhere to the "Terms and Conditions of Sale" and to pay any collection costs incurred to collect the amount balance, including reasonable attorney's fees.

The undersigned warrants that the information submitted is true and correct. Cross Tool & Manufacturing, Inc. is authorized to review the credit references listed.



Authorized Signature, Title, Date



TERMS & POLICIES

CROSS TOOL & MANUFACTURING, INC.

SALES POLICY:

SALES TAX:

Cross Tool and Manufacturing, Incorporated is required to charge applicable State and local sales tax on every item for which a sales tax exemption certificate has not been provided. When ordering, please indicate clearly which items are or are not taxable.

RETURNED GOODS:

Our authorization to return materials is required. To expedite the issuance of credit, please furnish our invoice number and date of invoice. Materials returned due to our error will be promptly credited in full provided they are returned within 30 days and are received in original saleable condition. All other returns are subject to charges for inspection or restocking. We cannot accept materials which have been in any way damaged or altered.

SPECIAL GOODS:

Orders for nonstandard material/design, special order, or altered at your request cannot be cancelled or returned unless production has not yet begun. If cancelled, customer will be charged for any work done before production is stopped.

CANCELLATIONS:

Our permission in writing is required to cancel orders placed with us and are subject to a cancellation charge. Such permission can only be granted on the merit of each case.

FREIGHT POLICY:

F.O.B. POINT:

All orders and quotations are F.O.B. our warehouse unless otherwise noted.

SHIPPING:

In the absence of explicit customer shipping instructions, we shall determine and select the most satisfactory routing. All merchandise shipped, except Parcel Post shipments, becomes the property of the purchaser upon delivery in good order. Claims for loss, damage, or delay must be made in writing to the carrier and notation made on the receipt at the time of delivery.

WARRANTY POLICY:

LIMITATION OF REMEDY:

Any liability for consequential and incidental damages is expressly disclaimed. The liability of Cross Tool & Manufacturing, Inc. in all events is limited to, and shall not exceed, the purchase price paid.

DELAYS BEYOND SELLER'S CONTROL:

Seller shall not be responsible for delays in performance caused by delays in manufacturing, transportation or due to strikes, fires, floods, storms, war, insurrections, riots, any governmental regulation, order, act or instruction, or any circumstances beyond the Seller's reasonable control. Buyer's acceptance of goods and/or services shall constitute a waiver of any claims for damages due to delay. Under no circumstances shall the Seller be liable for any loss or use by Buyer or for any indirect or consequential damages arising from such delays.

ERRORS:

Clerical and Statistical errors are subject to correction.

CONDITIONS:**GENERAL:**

Prices & Discounts are subject to change without notice.

TERMS:

2% discount if paid within 10 days of invoice date - NET 30 days. Terms valid on approved credit only.

SHIPPING INFORMATION:

USPS is used whenever possible. Inserts are split when needed and shipped best way (USPS, FedEx, UPS, Freight). Ground, 3rd Day, 2nd Day, and Next Day shipping options are available. Please specify when placing your order if you have a preference.

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