

SAFETY BLOCKS

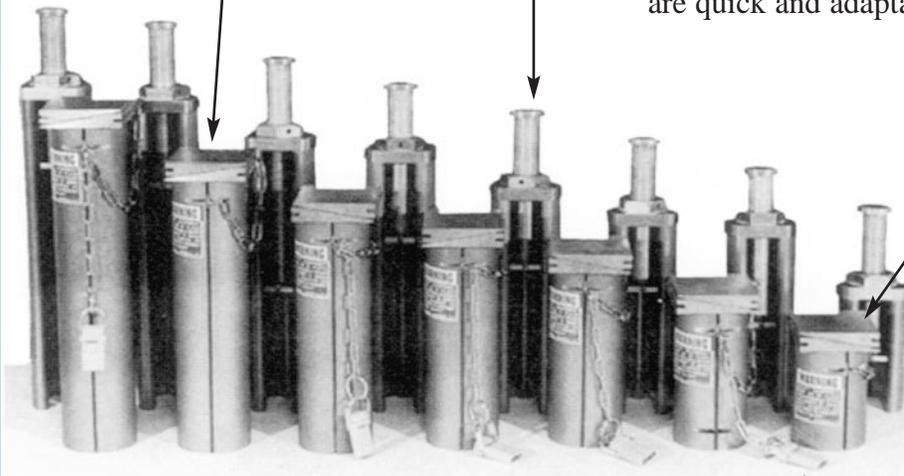
PROTECTION FOR PRESS, TOOLING AND PEOPLE

**PROVIDES SAFETY DURING
 PRESS SET-UP AND MAINTENANCE**

2 UNIQUE STYLES WITH FLEXIBILITY

* Safety Blocks with wedges are stackable

* Safety Blocks with adjustable screw are quick and adaptable

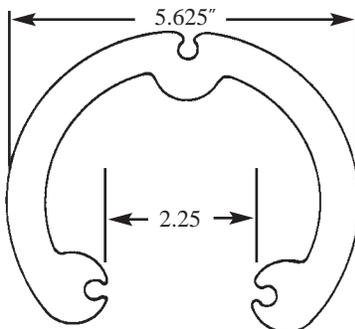


Wedges

Fill the gap between the block and upper press section to prevent movement of the press slide (ram).



42 - DIMENSIONS



STANDARD INTERLOCK

42-01 INTERLOCK PLUG AND RECEPTACLE WITH CHAIN

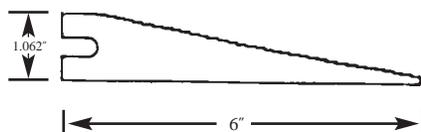
Provides a mechanical means of insuring that guards, safety blocks or other devices are in place before a machine can operate. (Standard on all safety blocks.)

42o SERIES FOR SMALLER PRESSES

The 42o's also come in adjustable screw and wedge type for presses with maximum static load of 35 tons.

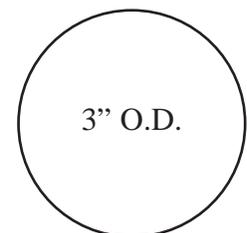
UNIQUE SAW TOOTH DESIGN

Wedges cannot move or squirt under load!



Power Cutoff Features In Storage. When the safety block is stored on the side of the press with the safety plug connected to the control circuit, the press is operative. In use. When the safety block is in the press bed area with the safety plug disconnected from the control circuit, the press is inoperative.

42o - DIMENSIONS



SERIES 42 - SAFETY BLOCKS

PROPER SAFETY BLOCK SELECTION

All safety blocks are rated to withstand a direct static load, which is expressed as the capability of the block to support the combined weight of both the upper ram of the press and the upper die halves in an open position. Selection of the proper style and size safety block for the specific press application must be based on these considerations: (a) the static load requirement, and (b) the required safety block maximum length.

For Example:

$$\left\{ \frac{(\text{Press Bed Area}) (\text{Shut Height})}{1728 \text{ cu. in./cu. ft.}} = \frac{48" \times 96" \times 24"}{1728 \text{ cu. in./cu. ft.}} = 64 \text{ cu. ft.} \text{ or } 64 \text{ Tons displaced static load} \right.$$

This cubic displacement factor (1 ton per 1 cubic foot) allows for the approximate weight of the upper ram, slide assembly including adjustment device pitman arms and the approximate weight of the upper half of the die set. It also allows for a two to one safety factor.

When more than one safety block (usually on straight side presses) is used, divide the total weight by the number of safety blocks. The resulting figure is the amount of static load the safety block (s) will have to support. Please refer to the size block (xx) that should be used for load vs. length of block.

(1) To determine the length of safety block:

With the die fully open (or top of stroke) measure the space between the upper and lower die or the space between the slide face and bolster at the point where the block would be inserted... _____ = XX" (Shut Height + Stroke)

(2) Estimating the static load:

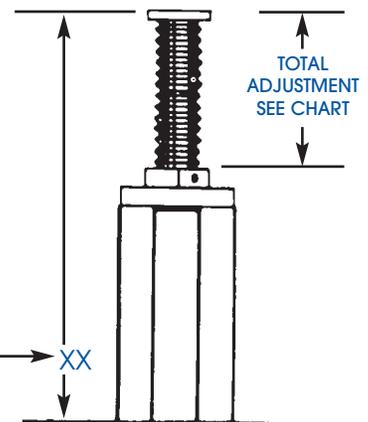
The "rule of thumb" method for quickly estimating the static load requirement for a particular stamping press is to allow one ton of static load for each cubic foot displaced by the press bed area X the shut height of the press.

TOTAL STATIC LOAD _____ ÷ LOAD CAPACITY BLOCK _____ = # OF SAFETY BLOCKS _____

| | | | SUGGESTED STYLES WHEN MAXIMUM EXTENDED LENGTH (XX) IS BETWEEN THESE DIMENSIONS | | | | |
|----------------------------|--------------------|---------------|--|----------|-----------|-----------|-----------------|
| STYLE | MAX. APP. RANGE | TOTAL ADJ. | 3" - 9" | 9" - 21" | 21" - 33" | 33" - 60" | ORDER PART # |
| WEDGES | 2" - 60" | .75" | 215 | 205 | 195 | 180 | 42-XXW |
| SHORT Adj. Screw | 6" - 60" | 3" | N/A | 125 | 125 | 125 | 42-XXS |
| INTERMEDIATE Adj. Screw | 9" - 60" | 6" | N/A | N/A | 125 | 125 | 42-XXI |
| MEDIUM Adj. Screw | 12" - 60" | 9" | N/A | N/A | 125 | 125 | 42-XXM |
| LONG Adj. Screw | 18" - 60" | 15" | N/A | N/A | N/A | 125 | 42-XXL |
| STYLE | MAX. APP. RANGE | TOTAL ADJ. | 2" - 30" | 9" - 21" | 21" - 30" | N/A | |
| WEDGES | 2" - 30" | .75" | 35 | 35 | 35 | N/A | 42o-XXW |
| SHORT Adj. Screw | 6" - 30" | 3" | 35 | 35 | 35 | N/A | 42o-XXS |
| INTERMEDIATE Adj. Screw | 9" - 30" | 6" | 33 | 33 | 33 | N/A | 42o-XXI |
| MEDIUM Adj. Screw | 12" - 30" | 9" | 30 | 30 | 30 | N/A | 42o-XXM |
| LONG Adj. Screw | 18" - 30" | 15" | 22 | 20 | 20 | N/A | 42o-XXL |
| EXTRUSION No Screw | N/A | N/A | 50 | 50 | 45 | N/A | 51981 |
| | | | MAXIMUM STATIC LOAD IN TONS | | | | |

BLOCK HOLDER

Sheet metal holder to be attached to the machine to mount the safety block and components when not in use.
Part No. 62814



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

NOTE: The minimum usable length of any specific block is maximum extended length (xx) minus total adjustment.
The maximum extended length (xx) is commonly the measurement taken with the ram fully open and the slide retracted.