

SAF-T-BLOCK

Here at SAF-T-BLOCK we have built a state-of-the-art facility that allows us to focus solely on building safety press blocks, which shows in the quality you will receive from SAF-T-BLOCK.

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1-800-968-6868



Our Services

We have built and dedicated a facility for producing the highest quality safety press blocks and accessories in the industry. We pride ourselves on extremely fast delivery from the time of order to shipment, normally within 48 hours.

Our Saf-T-Block plant will build to your needs, including many options at a low price.

We manufacture four sizes of standard style safety blocks and four sizes of adjustable safety blocks.



Try our P-D-Q Service! You'll be glad you did!

Engineering Data - Adjustable & Wedge Style Press Blocks

A.) Determine the Static Load that is to be Supported by the Safety Block (either standard or adjustable screw blocks)

- (1) Add the total weight of the slide (RAM) assembly plus upper die and all components.
- (2) Multiply this number by two (2) for a safety factor.
- (3) The resulting figure is the amount of static weight that the safety block(s) will have to support.

B.) If static load of the ram and top tooling is unknown, calculate an approximated static load using the following formula. This method contains a built-in safety factor of two (2).

$$\frac{\text{press bed area (square inches)} \times \text{shut height (inches)}}{1728 \text{ (cubic inches in [1] cubic foot)}} = \text{total static load (in tons)}$$

C.) Determine the Safety Block Length

(1) With the die open (top of the stroke), measure the space between the upper and lower die plates or (2), alternately, measure the space between the slide (ram) face and the bolster plate. "Top of the stroke" generally refers to shut height plus stroke. This provides the maximum height of the safety block.

(2) The shut height will generally provide the minimum height of the safety block to be used.

(3) These measurements can often be used for the upper and lower limits on an adjustable block.

D.) Refer to the size safety block that should be used for load by using the product data sheets.

Price - Delivery - Quality

By purchasing Saf-T-Block products you can:

- Eliminate OSHA Concerns
- Ensure Employee Safety
- Purchase Premium Quality Safety Blocks at an Economy Cost
- Normally expect shipment within 48 hours of receipt of order
- Receive products designed, built, and assembled by professional machinists

Price...

We have the best prices in the industry. In some cases we are one half of other suppliers' published prices.

Delivery...

Normal ship time is within 48 hours of receipt of order.

Quality...

Designed, built and assembled by professional machinists.

A Die Safety Block absolutely needs to be used when it is necessary for the operator/setup personnel to have "HANDS IN DIE," or when someone is working on or in the die with a tool of some description that could cause injury should the press activate. Proper procedures do call for the use of die safety blocks in these instances, with the press locked-out.

- Many materials are available for use in blocking the ram and upper die of a press. 6061-T6 aluminum offers much higher extruded strength per cubic inch than any other known press safety block material on the market. When static load capacity of the material is compared, aluminum becomes the clear choice.

- Use only certified material, preferably aluminum. Aluminum is malleable, and will deform. Steel should never be considered due to potential shrapnel issues.

- .250" of daylight. Under no circumstances should there be more space between the top of the Die Safety Block and the die, or between the top of the Die Safety Block and the slide if the die is absent. It is absolutely critical to accurately calculate the needed Safety Die Block length. An opening greater than .250" changes the force of a moving slide from static to dynamic.

- If two Die Safety Blocks are needed, they should be placed at diagonal corners. *We Strongly recommend the use of safety blocks in matched pairs.*

Adjustable Blocks

When you make it easy for your employees, they will use it! Safety practices quickly become a habit with the **SAF-T-BLOCK Press Block!**

MID-WEIGHT ADJUSTABLE SAFETY BLOCKS

- **75 TON MAXIMUM LOAD CAPACITY**
- Safety block length in 1" increments up to 60"
- 5" screw adjustments is standard - Additional adjustments available upon request

The Mid-Weight Adjustable Safety Block is produced to the same standards used for manufacturing both our Light-Weight and larger Standard safety press blocks.

The Mid-Weight Adjustable series has been successfully tested by an outside third party laboratory. This series is specifically engineered to be used between our Light-Weight adjustable press block LSB rated at 35 tons, and our Standard SB-1 adjustable rated at 125 tons.

The Mid-Weight series is available from 10" to 60" by the inch and has the option of having 5" up to 12" of screw adjustment. This design maintains a static load of up to 75 tons and this Mid-Weight block is easily stored in our optional holder that is ready to mount to your press. These blocks are also available with our electrical power cut-off system, adding safety to your press and for your employees. The size and weight makes it very easy for them to move the block assembly into and out of the press area.



LIGHT-WEIGHT ADJUSTABLE SAFETY BLOCKS

- **35 TON MAXIMUM LOAD CAPACITY**
- Special sizes available upon request
- 5" screw adjustments standard - additional adjustment available upon request

This light-weight series is designed to provide maximum protection for most press brakes and smaller presses where working space is at a premium during set up and maintenance.

These light-weight blocks provide convenient use and handling for your employees. The wide span of adjusting screw and nut assemblies have precision-cut Acme threads for extra strength and ease of use with a maximum static load of 35 tons. The 6061-t651 high-strength aluminum body is machined to give you ultimate stiffness with maximum adjustability. These blocks are one-third (1/3) of the weight of standard safety blocks available from others. The adjusting screw and nut assembly is easily moved by hand.



HEAVY-WEIGHT ADJUSTABLE SAFETY BLOCKS

- **125 TON MAXIMUM LOAD CAPACITY**
- Safety block length in 1" increments up to 60"
- 5" screw adjustments standard - additional adjustment available upon request

The adjusting screw and nut assembly provides easy adjustment normally both up and down by hand. These screw devices are used instead of wedges on the SB-1 adjustable safety press blocks, allowing for greater span of flexibility. The adjusting screw and nut assembly is mounted securely on top of the safety press block at the factory. This assembly is used in conjunction with a bottom end cap for additional stability and safety. The assembly allows up to 5 full inches of screw adjustment.

Heavy-Weight adjustable safety blocks are available with handle(s), holders, and power cut-offs.

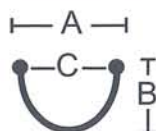


"The employer shall provide and enforce the use of safety blocks whenever dies are being adjusted or repaired in the press."
~ O.S.H.A.

Many materials are available for use in blocking the ram and upper die of a press. However, 6061-T6/T651 aluminum offers much higher extruded strength per cubic inch of material than other known press safety block materials on the market. When static load capacity of material is compared, aluminum becomes the clear choice.

FIXED LENGTH STATIC LOAD CAPACITIES

	Length of Block			Block Number	Dimension
	0"-20" long	21"-40" long	41"-60" long		
	135 Tons	115 Tons	110 Tons	SB-1	A=4.750" B=3.875" C=2.750"
Max Static Load Per Block	200 Tons	180 Tons	170 Tons	SB-2	A=5.625" B=4.812" C=3.375"
	50 Tons	35 Tons	20 Tons	LSB	2.250" round
	110 Tons	75 Tons	50 Tons	MSB	3.375" round



Fixed Length Standard Blocks

DETERMINING STANDARD SAFETY BLOCK LENGTH

- 1.) Find stroke of the press.
- 2.) Depending on how block is to be used: With die open (stroke up), measure either the space between the upper and lower die OR the space between the slide (RAM) face and the bolster at the point where the block(s) would be placed.
- 3.) Add (1) and (2) together ~ TOTAL
(Also when measuring, consider that the slide is adjustable.)
- 4.) If wedges are to be used, subtract 1/2" maximum.
(This is allowance for variation in the stopping point of the crank shaft.)
- 5.) If end caps are ordered, subtract the end cap allowance for the desired size of block.

SB-1 1/4" - SB-2 1/4"
LSB 1" - MSB 1"

Add/subtract as directed and the result will be the safety block length to order.



Popular Options for Safety Blocks

Protective End Caps



Designed to prevent damage to safety press block that might reduce effective tonnage rating. These caps are strongly recommended.

Handles



Our handles provide a safe method of handling your safety press block. Two handles are highly recommended for longer blocks and heavyweight adjustable models.

HOLDERS



SAF-T-BLOCK press block holders provide a safe, designated place near an electrical connection. Holders are available for all our safety press blocks, as well as accessories. Rubber retention strap is included with purchase.



Power Cut-Off System

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.**



Wedges

Available in aluminum or hardwood. SAF-T-BLOCK Wedges are used to fill the gap between the safety press block and the upper slide (RAM).



All press blocks and accessories shown are manufactured by:

SAF-T-BLOCK

541 Skyway Drive
Edgewater, FL 32132

Your Local Distributor:

Distributed by

AJACS

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