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 five sizes of standard style safety blocks and three 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).

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

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.*