



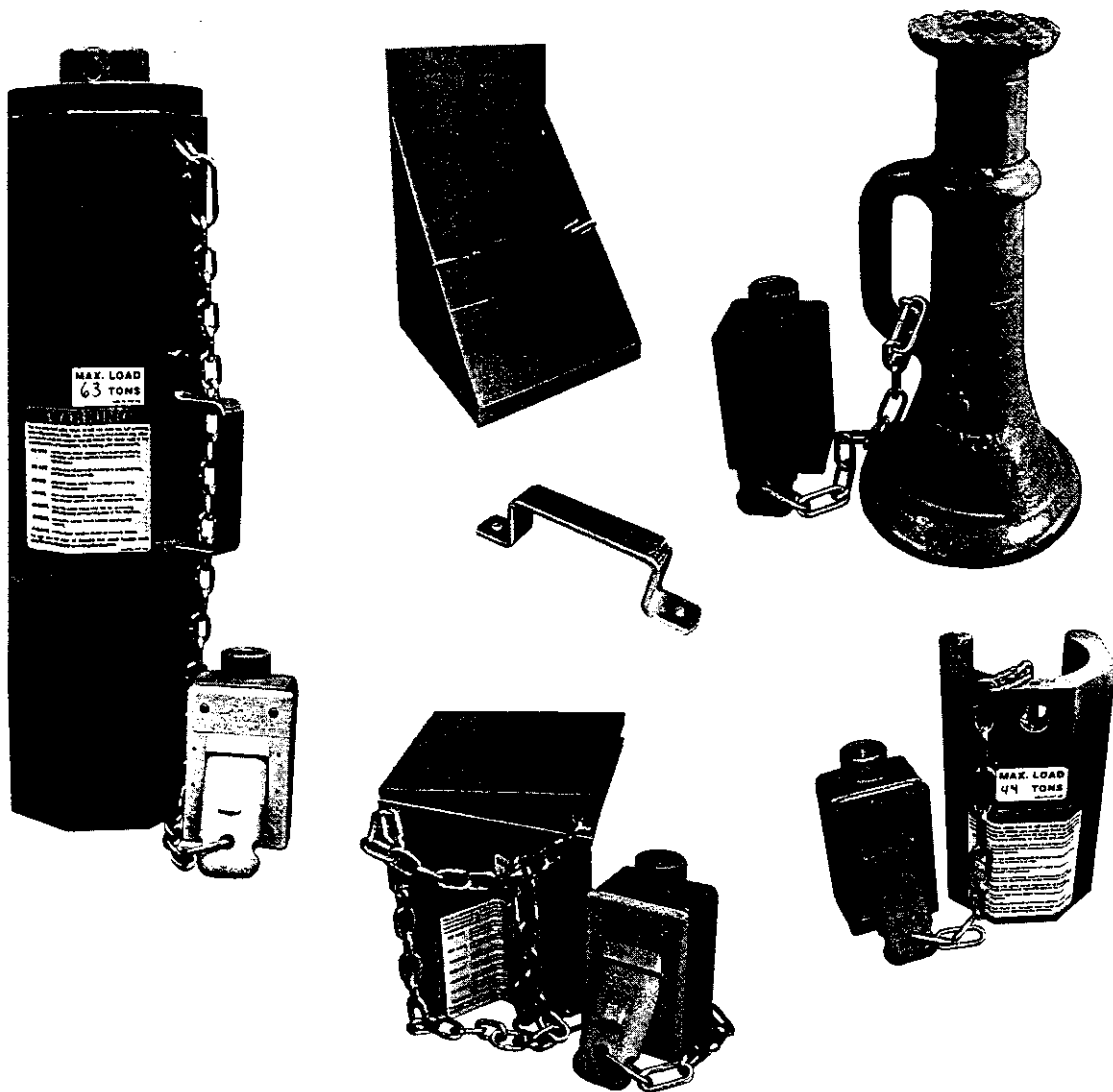
"The Machine Controls/Safeguarding People"

**ROCKFORD**

**SYSTEMS, INC.**

ISO 9001:2000 Certified

# INSTALLATION MANUAL FOR SAFETY BLOCKS AND ACCESSORIES



**IMPORTANT: PLEASE REVIEW THIS ENTIRE PUBLICATION BEFORE INSTALLING, USING, OR MAINTAINING SAFETY BLOCKS.**

P.O. Box 5525 • Rockford, Illinois 61125-0525 • Toll-Free 1-800-922-7533 • Phone (815) 874-7891  
Fax (815) 874-6144 • Web Site [www.rockfordsystems.com](http://www.rockfordsystems.com) • E-Mail [sales@rockfordsystems.com](mailto:sales@rockfordsystems.com)  
Manual No. KSL-076

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## Safety Precautions

### **DANGER**

**DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury, and carefully read the message that follows.

### **CAUTION**

**CAUTION** used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Efficient and safe machine operation depends on the development, implementation and enforcement of a safety program. This program requires, among other things, the proper selection of point-of-operation guards and safety devices for each particular job or operation and a thorough safety training program for all machine personnel. This program should include instruction on the proper operation of the machine, instruction on the point-of-operation guards and safety devices on the machine, and a regularly scheduled inspection and maintenance program.

Rules and procedures covering each aspect of your safety program should be developed and published both in an operator's safety manual, as well as in prominent places throughout the plant and on each machine. Some rules or instructions which must be conveyed to your personnel and incorporated in to your program include:

** DANGER** Never place your hands or any part of your body in this machine.



**Never** operate this machine without proper eye, face, and body protection.



**Never** operate this machine unless you are fully trained and instructed and unless you have read the instruction manual.



**Never** operate this machine if it is not working properly—stop operating it and advise your supervisor immediately.



**Never** use a foot switch to operate this machine unless a point-of-operation guard or device is provided and properly maintained.



**Never** operate this machine unless two-hand trip, two-hand control or presence-sensing device is installed at the proper safety distance. Consult your supervisor if you have any questions regarding the proper safety distance.



**Never** tamper with, rewire, or bypass any control or component on this machine.

A company's safety program must involve everyone in the company, from top management to operators, since only as a group can any operational problems be identified and resolved. It is everyone's responsibility to implement and communicate the information and material contained in catalogs and instruction manuals to all persons involved in machine operation. If a language barrier or insufficient education would prevent a person from reading and understanding various literature available, it should be translated, read or interpreted to the person, with assurance that it is understood.



**FOR MAINTENANCE AND INSPECTION, ALWAYS REFER TO THE OEM'S (ORIGINAL EQUIPMENT MANUFACTURER'S) MAINTENANCE MANUAL OR OWNER'S MANUAL. If you do not have an owner's manual, please contact the original equipment manufacturer.**

### Safety References

#### OSHA ACT AND OSHA STANDARDS

Since the enclosed equipment can never overcome a mechanical deficiency, defect or malfunction in the machine itself, OSHA (Occupational Safety and Health Administration) has established certain safety standards that the employers (users) must comply with so that the machines used in their plants, factories, or facilities are thoroughly inspected and are in first-class operating condition before any of the enclosed equipment is installed.

1. **General Duty Clause from the Occupational Safety and Health Act of 1970 (Public Law 91-596, 91st Congress, S. 2193, December 29, 1970):**

#### DUTIES

SEC. 5. (a) Each employer—

(1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his own actions and conduct.

2. **OSHA standards that an employer (user) must comply with include:**

#### 29 CFR PART 1910—OCCUPATIONAL SAFETY AND HEALTH STANDARDS

##### Subpart J—General Environmental Controls

Sec.

1910.147 *The Control of Hazardous Energy (Lockout/Tagout)*

##### Subpart O—Machinery and Machine Guarding

1910.212 *General Requirements for All Machines*  
1910.217 *Mechanical Power Presses*  
1910.219 *Mechanical Power-Transmission Apparatus*

##### Subpart S—Electrical

###### GENERAL

1910.301 *Introduction*

###### DESIGN SAFETY STANDARDS FOR ELECTRICAL SYSTEMS

1910.302 *Electric Utilization Systems*  
1910.303 *General Requirements*  
1910.304 *Wiring Design and Protection*  
1910.305 *Wiring Methods, Components, and Equipment for General use*

#### SAFETY-RELATED WORK PRACTICES

1910.331 *Scope*  
1910.332 *Training*  
1910.333 *Selection and Use of Work Practices*  
1910.334 *Use of Equipment*  
1910.335 *Safeguards for Personnel Protection*

*Note: This list of standards is only a partial listing. Visit [www.osha.gov](http://www.osha.gov) for a complete listing of OSHA standards.*

**The OSHA Act and OSHA standards can be obtained on the OSHA Web site ([www.osha.gov](http://www.osha.gov)) or by contacting:**

Superintendent of Documents  
U.S. Government Printing Office  
P.O. Box 371954  
Pittsburgh, PA 15250-7954  
Phone: (202) 512-1800  
Fax: (202) 512-2250  
[www.gpo.gov](http://www.gpo.gov)

#### ANSI SAFETY STANDARDS FOR MACHINE TOOLS

The most complete safety standards for machine tools are published in the ANSI (American National Standards Institute) B11 series. The following is a list of each ANSI B11 standard available at the printing of this publication.

B11.1 *Mechanical Power Presses*  
B11.2 *Hydraulic Power Presses*  
B11.3 *Power Press Brakes*  
B11.4 *Shears*  
B11.5 *Iron Workers*  
B11.6 *Manual Turning Machines (Lathes)*  
B11.7 *Cold Headers and Cold Formers*  
B11.8 *Drilling, Milling, and Boring Machines*  
B11.9 *Grinding Machines*  
B11.10 *Metal Sawing Machines*  
B11.11 *Gear and Spline Cutting Machines*  
B11.12 *Roll Forming and Roll Bending Machines*  
B11.13 *Automatic Screw/Bar and Chucking Machines*  
B11.14 *Coil Slitting Machines/Systems*  
B11.15 *Pipe, Tube, and Shape Bending Machines*  
B11.16 *Metal/Powder Compacting Presses*  
B11.17 *Horizontal Hydraulic Extrusion Presses*  
B11.18 *Coil Processing Systems*  
B11.19 *Performance Criteria for Safeguarding*  
B11.20 *Manufacturing Systems/Cells*  
B11.21 *Lasers*  
B11.22 *Turning Centers and CNC Turning Machines*  
B11.23 *Machining Centers and CNC Milling, Drilling, and Boring Machines*  
B11.24 *Transfer Machines*  
B11.TR1 *Ergonomic Guidelines*  
B11.TR2 *Mist Control Considerations*  
B11.TR3 *Risk Assessment and Risk Reduction*  
B11.TR4 *Selection of Programmable Electronic Systems (PES/PLC)*

(Continued on next page.)

## **SECTION 1—IN GENERAL**

### *Safety Blocks and Accessories*

#### **ANSI SAFETY STANDARDS FOR MACHINE TOOLS (CONTINUED)**

The ANSI safety standards on page 3 can be purchased by contacting:

AMT—The Association for Manufacturing Technology  
7901 Westpark Drive  
McLean, Virginia 22102  
Phone: (703) 893-2900  
Toll-Free: 1-800-524-0475  
Fax: (703) 893-1151  
E-Mail: AMT@amtonline.org  
www.amtonline.org

#### **NFPA ELECTRICAL SAFETY STANDARDS**

The most complete electrical safety standards are published by NFPA (National Fire Protection Association). The following is a list of relevant electrical safety standards:

- NFPA 70     *National Electrical Code*
- NFPA 70B    *Recommended Practice for Electrical  
Equipment Maintenance*
- NFPA 70E    *Standard for Electrical Safety in the  
Workplace*
- NFPA 79     *Electrical Standard for Industrial Machinery*

NFPA electrical safety standards can be purchased by contacting:

NFPA (National Fire Protection Association)  
1 Batterymarch Park  
Quincy, MA 02269-9101  
Phone: (617) 770-3000  
Fax: (617) 770-0700  
www.nfpa.org

#### **NATIONAL SAFETY COUNCIL SAFETY MANUALS**

Other good references for safety on machine tools are the National Safety Council's Safety Manuals. These manuals are written by various committees including the Power Press, Forging and Fabricating Executive Committee. Copies of the following publications are available from their library:

- *Power Press Safety Manual*, 5th Edition
- *Safeguarding Concepts Illustrated*, 7th Edition
- *Forging Safety Manual*

These manuals and can be obtained by contacting:

National Safety Council  
1121 Spring Lake Drive  
Itasca, IL 60143-3201  
1-800-621-7619, Ext. 2199  
Fax: (630) 285-0797  
www.nsc.org

#### **OTHER SAFETY SOURCES**

NIOSH (National Institute of Occupational Safety and Health)  
4676 Columbia Parkway  
Cincinnati, OH 45226  
Toll-Free: 1-800-35-NIOSH (1-800-356-4674)  
Phone: (513) 533-8328  
Fax: (513) 533-8573  
www.cdc.gov/niosh

NEMA (National Electrical Manufacturers Association)  
1300 North 17th Street, Suite 1847  
Rosslyn, VA 22209  
Phone: (703) 841-3200  
Fax: (703) 841-5900  
www.nema.org

RIA (Robotic Industries Association)  
900 Victors Way, Suite 140  
P.O. Box 3724  
Ann Arbor, MI 48106  
Phone: (734) 994-6088  
Fax: (734) 994-3338  
www.roboticonline.com

For additional safety information and assistance in devising, implementing, or revising your safety program, please contact the machine manufacturer, your state and local safety councils, insurance carriers, national trade associations, and your state's occupational safety and health administration.

## OSHA and ANSI Safety Block Requirements

### OSHA 29 CFR 1910.211, *Definitions*

(d)(48) Safety block means a prop that, when inserted between the upper and lower dies or between the bolster plate and the face of the slide, prevents the slide from falling of its own deadweight.

### OSHA 29 CFR 1910.217, *Mechanical Power Presses*

(d)(9)(iv) The employer shall provide and enforce the use of safety blocks for use whenever dies are being adjusted or repaired in the press.

### ANSI B11.19-2003, *Performance Criteria for Safeguarding*

*Note: The following excerpts of ANSI B11.19-2003 apply only to static-load safety blocks. See ANSI B11.19-2003 for information on other mechanisms that restrict hazardous motion (e.g., slide locks, chain locks, and locking pins).*

**3.57 safety block:** A prop that is inserted between opposing machine or tooling members to prevent closing of machine members or tooling components.

#### 12.1.1 Design and construction

Safety blocks shall be interlocked with the machine to prevent actuation of hazardous motion of the machine, and shall be designed and constructed to hold the maximum anticipated load (normally the static weight) of the moveable portion of the machine, its tooling, and attachments.

Materials used in the construction of the mechanisms shall not fail under rated load.

#### **E12.1.1**

Where practical, handles should be provided on safety blocks, etc., to assist in their installation and removal.

Mechanisms that restrict hazardous motion should be designed and constructed with a safety factor of at least four.

#### 12.1.2 Installation and maintenance

The mechanism shall be installed in the machine such that it will not be expelled or create a hazard when supporting the machine, its members, or other attachments.

The interlocking system of the mechanism shall be located a sufficient distance from the area of use such that the mechanism cannot be placed into service without removing power that can cause hazardous motion.

#### **E12.1.2**

When safety blocks are used, tapered wedges of hardwood or other substantial material should be used to completely fill any remaining space between the block and the machine members to be held.

## SECTION 2—DIE SAFETY BLOCK SYSTEM

### Safety Blocks and Accessories

## Introduction

A complete safety block system will consist of a safety block, safety wedges or an adjustable screw device (the screw device is available for octagonal safety blocks only), an electrical interlock system, and a safety block holder. Lifting handles are available for use with the larger, heavier safety blocks. Safety blocks can also be supplied in 9' lengths. A packing slip is enclosed listing exactly what material was shipped on this order.

Installation of a safety block system requires proper storage of the safety block. This could be in a holder next to the electrical interlock system or at a remote location on the machine frame. An electrical interlock system includes a one- or two-contact receptacle, a plug, a 12" or 24" chain, and an electrical mounting box. This provides an electrical interlock that is typically wired in to the machine's control circuit. The interlock system must be mounted far enough away from the die area so that the safety block cannot be used without removing the plug from the receptacle, which removes power that can cause hazardous motion.

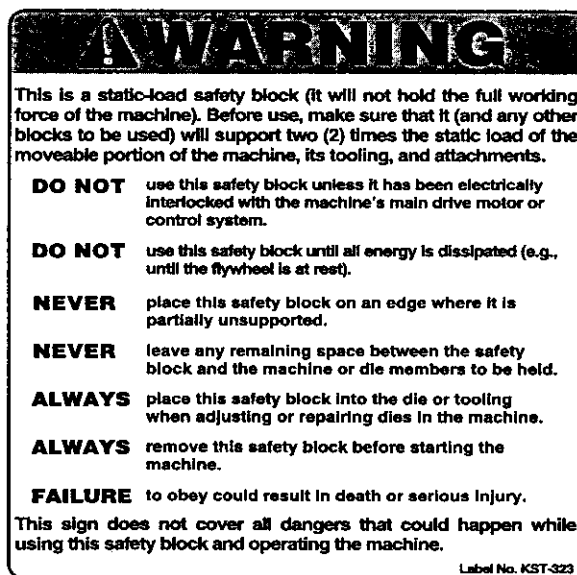
The safety block length (height) is sometimes less than the height of the die opening. When this happens, aluminum safety wedges or adjustable screw devices are used to fill the space between the top of the safety block and the upper die half or slide. The wedges are attached to the safety block with a chain to keep them all together. The adjustable screw device is mounted permanently to the top of the safety block with machine bolts.

Large machines may require the use of multiple safety blocks; each safety block should have its own holder and electrical interlock system.

## Labels Provided

### WARNING LABEL

The illustrated warning label is provided with all safety blocks and should be affixed directly to each safety block. If a safety block is not tall enough for the label to fit, affix it to a prominent location on the machine. All personnel operating or working around the machine must be required to read, understand, and adhere to all warnings on this label. If the label becomes destroyed or unreadable, it **MUST** be replaced. Contact the factory immediately for a replacement label and do not operate the equipment until the warning label is in place.



Label No. KST-323

### MAXIMUM LOAD LABEL

The maximum load label shown to the right is provided with all safety blocks and is affixed directly to each safety block. If the label becomes destroyed or unreadable, contact the factory for a replacement label. The maximum load in tons should be written legibly on the label in permanent marker based on the maximum load chart.

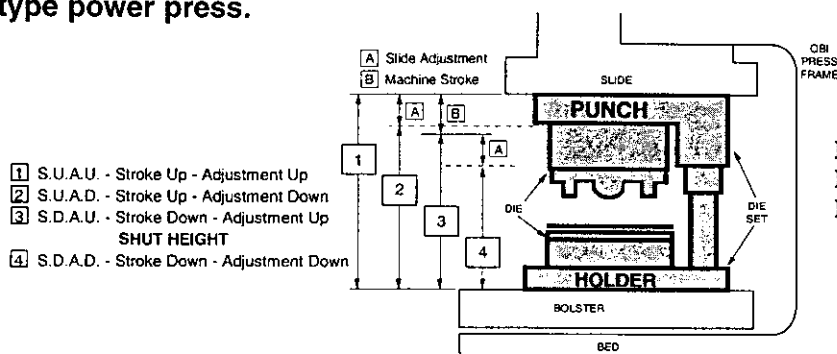


Label No. KST-330

## Safety Block Location



Calculating the size and length of safety blocks requires familiarity with mechanical power presses or with other types of machines where safety blocks will be used. Understanding shut height for applying safety blocks to these machines is essential. This illustration is for an OBI type power press.



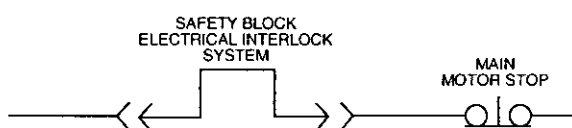
**Die Safety Block Location—  
Place between the die  
PUNCH and HOLDER.**

## Safety Block Installation



Installation of the safety block system should not be started until all energy sources have been locked out according to OSHA 29 CFR 1910.147, *The Control of Hazardous Energy (Lockout/Tagout)*. Padlock the electrical power disconnecting means and air supply (if applicable) in the off position. Do not attempt to operate the machine until installation is complete.

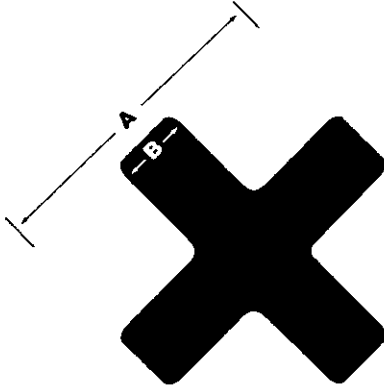
1. When a holder is supplied, mount it on the press frame at least 2 feet from the die area. Three ¼" diameter holes are provided for mounting.
2. When an electrical interlock system is supplied, install the mounting box approximately 3 to 4 inches to one side of the safety block holder.
3. Run ½" electrical conduit (flexible or rigid as desired) from the mounting box conduit port to the machine control enclosure.
4. Pull two appropriately sized and colored machine tool-type wires (four wires for two-contact interlock systems) through the conduit, leaving approximately 6 inches extra at the mounting box and 3 feet in the control enclosure.
5. Attach ring-type wire lugs on the two wires located at the electrical interlock mounting box.
6. Refer to the control's wiring schematics. Locate terminals in the control enclosure used for the main motor stop. Rewire this part to the circuit to include the red wires for the safety block electrical interlock in series with the motor stop push button. When completed, add wire tags to identify the new wires at both ends.
7. For two-contact interlock systems, the two blue wires can be wired in to a user input in the control for diagnostic indication. Refer to the control's wiring schematic.
8. Connect the receptacle with the wires at the mounting box. Be sure the wires have number tags that match the opposite ends.
9. Install the receptacle in the mounting box with the socket pointing towards the floor. When the plug and receptacle are engaged, the circuit is complete and will allow the machine to run.
10. The opposite end of the plug chain is attached to the safety block and when stored in the holder, the plug should engage with the receptacle with slack in the chain. The safety block should not reach the die area unless the plug is removed from the receptacle.
11. With the safety block and wedges in the holder, attach the rubber strap by inserting the hooks into the holes located on the sides of the holder to secure the entire assembly in place. By connecting the safety block, wedges, and plug together with chains, the entire safety block system remains at the machine.



## SECTION 2—DIE SAFETY BLOCK SYSTEM

### Safety Blocks and Accessories

## X-Shaped Safety Block Specifications



	Small	Large
<b>A</b>	4"	5¾"
<b>B</b>	1"	1¼"

Block Length (Height)	Maximum Approximate Static Load Per Block in Pounds (Tons)*	
	Small	Large
1"-24"	97,000 (48)	203,000 (101)
24½"-30"	90,000 (45)	189,000 (94)
30½"-36"	86,000 (43)	171,000 (85)
36½"-42"	84,000 (42)	169,000 (84)
42½"-48"	73,000 (36)	165,000 (82)
48½"-54"	71,000 (35)	146,000 (73)
54½"-60"	69,000 (34)	144,000 (72)

\*The approximate static loads shown in this chart have a built-in safety factor of two.

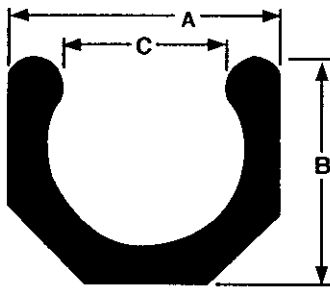
Weight of Blocks	
<b>Small</b>	0.681 lb/in
<b>Large</b>	1.250 lb/in

The x-shaped safety blocks can be furnished three different ways:

- A) Cut to length with a hole and pin for an interlock chain or wedges
- B) Cut to length only
- C) In a nine-foot length

Way Furnished	Part Number	
	Small	Large
<b>A</b>	KTS-609	KTS-610
<b>B</b>	KTS-605	KTS-606
<b>C</b>	KTS-607	KTS-608

## U-Shaped Safety Block Specifications



	Small	Medium	Large
<b>A</b>	4⅝"	5½"	6¾"
<b>B</b>	4"	4⅞"	5½"
<b>C</b>	2⅝"	3¼"	4¼"

Block Length (Height)	Maximum Approximate Static Load Per Block in Pounds*		
	Small	Medium	Large
1"-24"	88,500	126,000	169,500
30"	87,000	123,000	166,000
36"	84,000	120,500	162,000
42"	81,500	117,500	159,000
48"	79,000	114,000	156,000
54"	76,500	112,000	152,000
60"	74,000	108,500	148,500

\*The approximate static loads shown in this chart have a built-in safety factor of two.

The U-shaped safety blocks can be furnished three different ways:

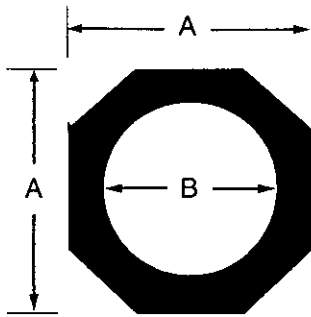
- A) Cut to length with a hole and pin for an interlock chain or wedges
- B) Cut to length only
- C) In a nine-foot length

Way Furnished	Part Number		
	Small	Medium	Large
<b>A</b>	KTS-561	KTS-562	KTS-563
<b>B</b>	KTS-564	KTS-565	KTS-566
<b>C</b>	KTS-554	KTS-555	KTS-556

# SECTION 2—DIE SAFETY BLOCK SYSTEM

Safety Blocks and Accessories

## Octagonal Safety Block Specifications



	Small	Medium	Large
A	4 <sup>5</sup> / <sub>8</sub> "	5 <sup>1</sup> / <sub>2</sub> "	6 <sup>3</sup> / <sub>4</sub> "
B	3 <sup>1</sup> / <sub>2</sub> "	4 <sup>1</sup> / <sub>4</sub> "	5 <sup>1</sup> / <sub>4</sub> "

Block Length (Height)	Maximum Approximate Static Load Per Block in Pounds (Tons)*		
	Small	Medium	Large
1"-24"	88,500 (44)	126,000 (63)	169,500 (84)
24½"-30"	87,000 (43)	123,000 (61)	166,000 (83)
30½"-36"	84,000 (42)	120,500 (60)	162,000 (81)
36½"-42"	81,500 (40)	117,500 (58)	159,000 (79)
42½"-48"	79,000 (39)	114,000 (57)	156,000 (78)
48½"-54"	76,500 (38)	112,000 (56)	152,000 (76)
54½"-60"	74,000 (37)	108,500 (54)	148,500 (74)

\*The approximate static loads shown in this chart have a built-in safety factor of two.

The octagonal safety blocks can be furnished four different ways:

- A) Cut to length with a hole and pin for an interlock chain and with an adjustable screw device installed (order adjustable screw device separately; see page 10 for part numbers and pricing)
- B) Cut to length with a hole and pin for an interlock chain or wedges
- C) Cut to length only
- D) In a nine-foot length

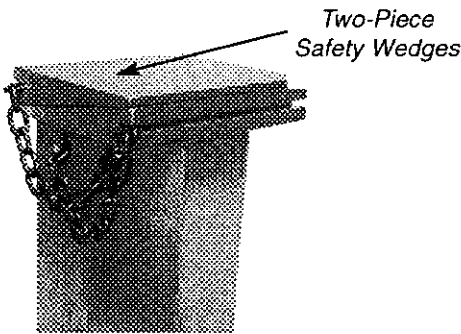
Way Furnished	Part Number		
	Small	Medium	Large
A	KTS-589	KTS-590	KTS-591
B	KTS-592	KTS-593	KTS-594
C	KTS-595	KTS-596	KTS-597
D	KTS-599	KTS-600	KTS-601

## SECTION 2—DIE SAFETY BLOCK SYSTEM

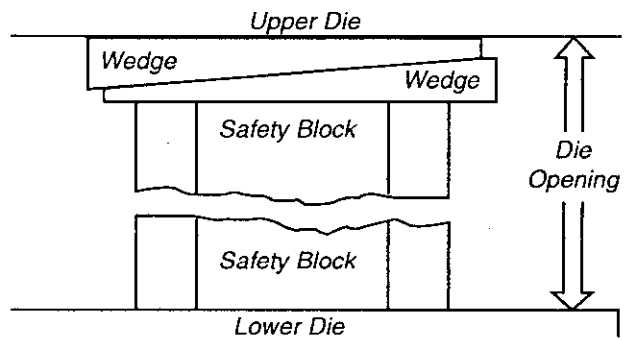
### Safety Blocks and Accessories

## Safety Block Accessories

### ALUMINUM SAFETY WEDGES



The aluminum safety wedges are used in combination with safety blocks. Because the safety block lengths are less than the die opening, aluminum wedges are available to fill the gap between the safety block and the upper die. Maximum adjustment of the wedges is approximately 1½". If the gap is more than 1½", a longer safety block must be used. See the illustration below for proper application.

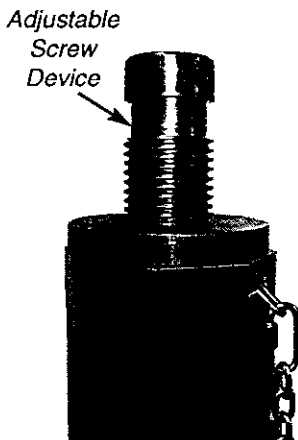


The aluminum wedges are available in three sizes to match the three safety block cross-sections. When supplied as an assembly, the wedges and safety block are connected together with a heavy-duty chain.

Part No.	Aluminum Safety Wedges
KTS-571	6" Long for Small Block
KTS-572	7" Long for Medium Block
KTS-573	8" Long for Large Block
KTS-570	Safety Wedge Material in a 9' Length

The above is an example showing the press slide at top of stroke, with a safety block and wedges inserted, filling the entire die opening. With the wedges installed securely between the top of the safety block and the upper die half, any slide motion is prevented.

### ADJUSTABLE SCREW DEVICES



The adjustable screw device serves the same purpose as the wedges and can be furnished with the octagonal safety blocks. This device mounts on top of the safety block with four machine bolts. It is available with approximately 2, 4, or 6 inches of adjustment if required, and a ½" diameter hole in the screw allows a rod to be inserted for ease of adjustment. When this option is provided, it is attached to the safety block at the factory.

Part No.	Description
KTS-574	2" Adjustable Screw Device for Small Octagonal Block
KTS-575	2" Adjustable Screw Device for Medium Octagonal Block
KTS-584	4" Adjustable Screw Device for Small Octagonal Block
KTS-585	4" Adjustable Screw Device for Medium Octagonal Block
KTS-598	6" Adjustable Screw Device for Large Octagonal Block

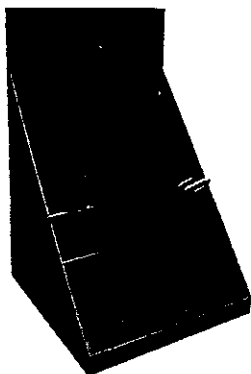
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## SECTION 2—DIE SAFETY BLOCK SYSTEM

Safety Blocks and Accessories

### Safety Block Accessories (continued)

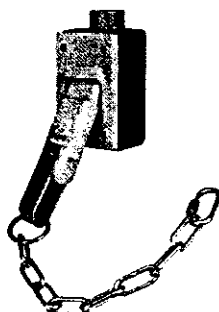
#### SAFETY BLOCK HOLDERS



The safety block holder is available in two sizes. It is attached to the side of a machine for storing the safety block assembly. This holder includes a rubber holding strap (part No. KTS-504) to secure the safety block assembly in place.

Part No.	Description	Shelf Dimensions
KTS-003	Small Safety Block Holder	8" x 8"
KTS-005	Large Safety Block Holder	10½" x 10½"

#### ELECTRICAL INTERLOCK SYSTEMS



Part No.  
KTS-503

This device consists of a 1- or 2-contact male plug with a 12" or 24" heavy-duty chain, receptacle, quick link, and mounting box. The chain is connected to the safety block so that the plug must be removed from the receptacle before the safety block can be placed in the die. This is a safety interlock feature that wires electrically into the machine motor control circuit. After wiring properly, the plug is pulled, and the power to the main drive motor and clutch/brake control is disconnected. When the safety block is in use, the machine should not be able to be operated.

##### Electrical Interlock Systems

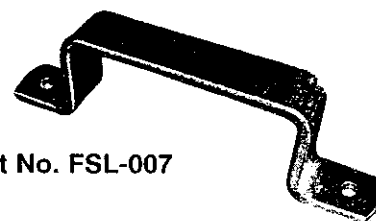
Part No.	Description
KTS-503	One-Contact Interlock System With 12" Chain
KTS-518	One-Contact Interlock System With 24" Chain
KTS-533	Two-Contact Interlock System With 24" Chain
KTS-534	Two-Contact Interlock System With 12" Chain

##### Replacement Parts for Electrical Interlock Systems

Part No.	Description
KTS-515	One-Contact Receptacle
KTS-516	One-Contact Plug With 12" Chain
KTS-517	One-Contact Plug With 24" Chain
KTS-530	Two-Contact Receptacle
KTS-531	Two-Contact Plug With 12" Chain
KTS-532	Two-Contact Plug With 24" Chain
CTK-004	Mounting Box
KTS-519	Quick Link

#### SAFETY BLOCK LIFTING HANDLE

For larger, heavier safety blocks, a lifting handle is available that can be attached to the safety block. This will provide assistance when installing and removing safety blocks.



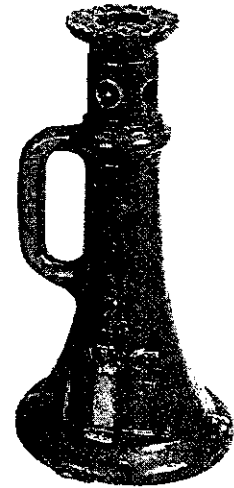
Part No. FSL-007

## SECTION 2—DIE SAFETY BLOCK SYSTEM

### Safety Blocks and Accessories

## Adjustable Safety Block

The adjustable safety block features a tough malleable-iron bell-bottom base, a convenient handle for lifting, and precision-cut acme threads for easy adjustment and extra rigidity. The adjusting screw can be easily adjusted up or down by hand. Turning holes are also provided in the screw neck to facilitate the use of a turning bar, if required.



Adjustable Safety Block

Part No.	Capacity in Tons	Height Closed	Screw Adjustment	Height Screw Adjustment Up	Base Diameter	Weight in Pounds
KTS-520*	10	6 <sup>3</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>4</sub> "	8"	4 <sup>7</sup> / <sub>8</sub> "	8
KTS-521	10	8 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>2</sub> "	12 <sup>1</sup> / <sub>4</sub> "	5 <sup>5</sup> / <sub>8</sub> "	10
KTS-522	10	12 <sup>3</sup> / <sub>4</sub> "	7 <sup>1</sup> / <sub>4</sub> "	20"	6 <sup>1</sup> / <sub>2</sub> "	13
KTS-523	20	9 <sup>1</sup> / <sub>2</sub> "	2 <sup>3</sup> / <sub>4</sub> "	12 <sup>1</sup> / <sub>4</sub> "	6 <sup>3</sup> / <sub>8</sub> "	18
KTS-524	20	11 <sup>1</sup> / <sub>2</sub> "	4 <sup>1</sup> / <sub>2</sub> "	16"	6 <sup>5</sup> / <sub>8</sub> "	22
KTS-525	20	17 <sup>1</sup> / <sub>2</sub> "	9 <sup>1</sup> / <sub>2</sub> "	27"	7 <sup>3</sup> / <sub>4</sub> "	35
KTS-526	24	11 <sup>3</sup> / <sub>4</sub> "	3 <sup>3</sup> / <sub>4</sub> "	15"	7 <sup>1</sup> / <sub>4</sub> "	31
KTS-527	24	15 <sup>3</sup> / <sub>4</sub> "	6 <sup>1</sup> / <sub>2</sub> "	22 <sup>1</sup> / <sub>4</sub> "	7 <sup>7</sup> / <sub>8</sub> "	40
KTS-528	24	21 <sup>3</sup> / <sub>4</sub> "	12"	33 <sup>3</sup> / <sub>4</sub> "	9 <sup>1</sup> / <sub>4</sub> "	56

\*Does not have a handle.

## Return Materials Authorization

To return material for any reason contact the sales department in our organization at 1-800-922-7533 for an RMA Number. All return materials shipments must be prepaid. Send the material to Rockford Systems, Inc., 4620 Hydraulic Road, Rockford, IL 61109-2695. Make sure the RMA Number is plainly identified on the outside of the shipping container.

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