



INSTALLATION MANUAL FOR SAFETY BLOCKS AND ACCESSORIES



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

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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

OSH 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

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 for a complete listing of OSHA standards.

The OSH Act and OSHA standards can be obtained on the OSHA Web site (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

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 Requirements for Risk Reduction Measures: Safeguarding and other Means of Reducing Risk
- 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

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.roboticsonline.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.

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.

- Safeguarding Concepts Illustrated, 7th Edition

These manuals 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

SECTION 1—IN GENERAL

Safety Blocks and Accessories

Warranty

9. Limited Warranties.

9.1. (i) Subject to Section 8.1(ii) below, Rockford Systems makes to Customer the following sole and exclusive warranties with respect to Goods:

(a) with respect to Goods that are manufactured based on Customer specifications, at the time of shipment by Rockford Systems, the Goods sold under the Agreement that are manufactured by Rockford Systems pursuant to such specifications conform to such specifications set forth in the applicable Order Documentation; and

(b) at the time of shipment by Rockford Systems, the Goods sold under the Agreement that are manufactured by Rockford Systems are free from defects in material and workmanship.

(c) Rockford Systems's warranty is for a period of 1 year, and begins from date of shipment from Rockford Systems to the original purchaser.

This warranty does not include accessories, parts or equipment sold hereunder that are manufactured by someone other than Rockford Systems.

(ii) Every claim by Customer against Rockford Systems for breach of warranty with respect to the Goods shall be deemed waived by Customer unless written notice thereof is received by Rockford Systems within fifteen (15) days after discovery.

9.2. If Rockford Systems breaches either of the warranties set forth in Section 8.1(i) above, and written notice thereof is received by Rockford Systems from Customer within the applicable time period specified in Section 8.1(ii) above, Customer's sole and exclusive remedy and Rockford Systems's only obligation shall be, as Rockford Systems in its sole and exclusive judgment shall determine, the replacement of the nonconforming Goods, or an adjustment to the purchase price for the nonconforming Goods or the repair of the nonconforming Goods. All transportation charges related to replacement or repair of Goods shipped to Rockford Systems's plant or facility (or other place at Rockford Systems's direction) shall be prepaid by Customer. Rockford Systems shall be responsible for reasonable transportation charges back to Customer for Goods that have been replaced or repaired by Rockford Systems. Any replacement Goods or repaired Goods shall be subject to these Terms and Conditions.

9.3. THE EXPRESS WARRANTIES SET FORTH HEREIN ARE THE ONLY WARRANTIES APPLICABLE TO THE SALE OF GOODS BY ROCKFORD SYSTEMS TO CUSTOMER PURSUANT TO THE AGREEMENT, AND THEY EXCLUDE ALL OTHER EXPRESS, ORAL OR WRITTEN WARRANTIES, AS WELL AS ANY WARRANTIES IMPLIED BY LAW WITH RESPECT TO THE GOODS, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PURPOSE, NOTWITHSTANDING ANY DISCLOSURE TO ROCKFORD SYSTEMS OF THE INTENDED USE OF THE GOODS.

9.4. Rockford Systems's warranties under Section 8.1(i) are void if repairs or modifications of the Goods are made by anyone other than Rockford Systems. Without limitation of the foregoing, Rockford Systems assumes no responsibility for and shall have no obligations to Customer because defects in any materials furnished by, or any faulty workmanship provided by, any party other than Rockford Systems.

9.5. Rockford Systems reserves the right to improve its products through changes in design or material without being obligated to incorporate such changes into products of prior manufacture. Customer cannot rely on any such changes as proof of insufficiency or inadequacy of prior designs of the Goods or material contained in the Goods.

9.6. If Customer grants to an end user of the Goods (or any other customer of Customer) any warranty that is greater in scope or time than the warranty and claims period stated herein, Rockford Systems shall not be liable beyond the scope of the limited warranty, the claim period, the damages and the remedies provided for under this Section.

9.7. Solely to the extent transferable, Rockford Systems assigns and transfers to Customer the original manufacturer's warranty on Goods sold hereunder that are not manufactured by Rockford Systems.

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.

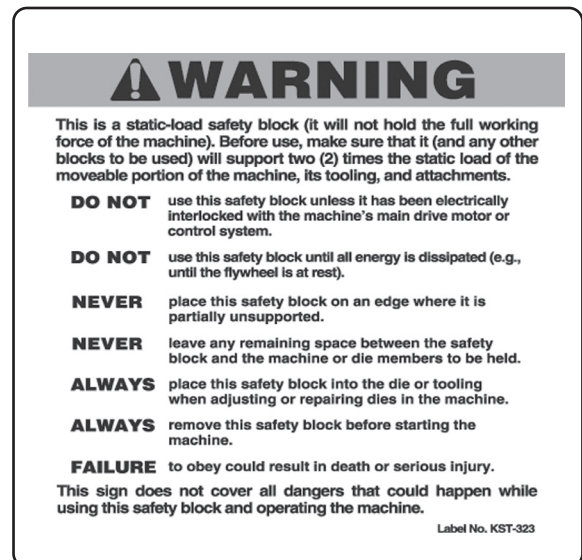
The safety block length (height) is sometimes less than the height of the die opening. When this happens, aluminum safety wedges or adjustable screw devices are used to fill the space between the top of the safety block and the upper die half or slide. The wedges are attached to the safety block with 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. KST323

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.

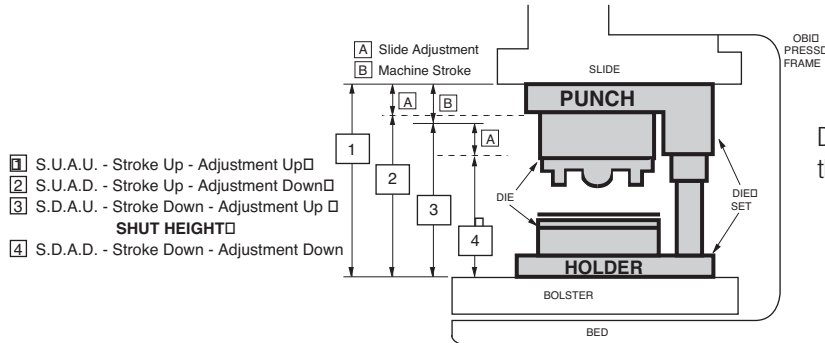


Label No. KST330

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.



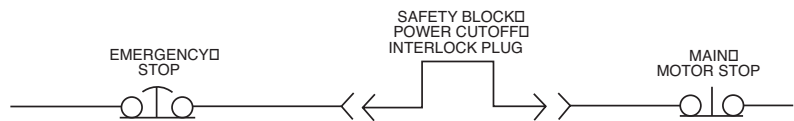
Die Safety Block Location—Place between the die PUNCH and HOLDER.

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.

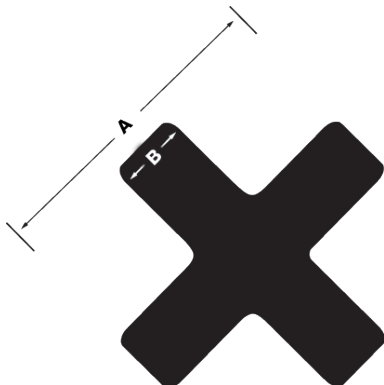
1. When a holder is supplied, mount it on the press frame at least 2 feet from the die area. Three ¼" diameter holes are provided for mounting.
2. When an electrical interlock system is supplied, install the mounting box approximately 3 to 4 inches to one side of the safety block holder.
3. Run ½" electrical 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
A	4"	5 $\frac{3}{4}$ "
B	1"	1 $\frac{1}{4}$ "

Block Length (Height)	Maximum Approximate Static Load Per Block in Pounds (Tons)*	
	Small	Large
1"-24"	97,000 (48)	203,000 (101)
24 $\frac{1}{2}$ "-30"	90,000 (45)	189,000 (94)
30 $\frac{1}{2}$ "-36"	86,000 (43)	171,000 (85)
36 $\frac{1}{2}$ "-42"	84,000 (42)	169,000 (84)
42 $\frac{1}{2}$ "-48"	73,000 (36)	165,000 (82)
48 $\frac{1}{2}$ "-54"	71,000 (35)	146,000 (73)
54 $\frac{1}{2}$ "-60"	69,000 (34)	144,000 (72)

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

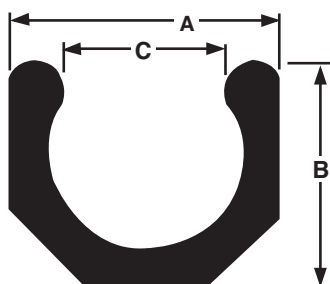
Weight of Blocks	
Small	0.681 lb/in
Large	1.250 lb/in

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
A	KTS609	KTS610
B	KTS605	KTS606
C	KTS607	KTS608

U-Shaped Safety Block Specifications



	Small	Medium	Large
A	4 $\frac{5}{8}$ "	5 $\frac{1}{2}$ "	6 $\frac{3}{4}$ "
B	4"	4 $\frac{5}{8}$ "	5 $\frac{1}{2}$ "
C	2 $\frac{5}{8}$ "	3 $\frac{1}{4}$ "	4 $\frac{1}{4}$ "

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:

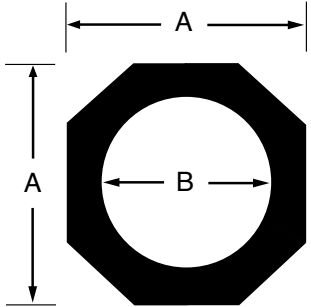
- A) Cut to length with a hole and pin for an interlock chain or wedges
- B) Cut to length only
- C) In a nine-foot length

Way Furnished	Part Number		
	Small	Medium	Large
A	KTS561	KTS562	KTS563
B	KTS564	KTS565	KTS566
C	KTS554	KTS555	KTS556

SECTION 2—DIE SAFETY BLOCK SYSTEM

Safety Blocks and Accessories

Octagonal Safety Block Specifications



	Small	Medium	Large
A	4 $\frac{5}{8}$ "	5 $\frac{1}{2}$ "	6 $\frac{3}{4}$ "
B	3 $\frac{1}{2}$ "	4 $\frac{1}{4}$ "	5 $\frac{1}{4}$ "

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

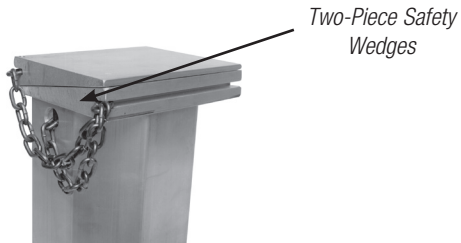
Way Furnished	Part Number		
	Small	Medium	Large
A	KTS589	KTS590	KTS591
B	KTS592	KTS593	KTS594
C	KTS595	KTS596	KTS597
D	KTS599	KTS600	KTS601

SECTION 2—DIE SAFETY BLOCK SYSTEM

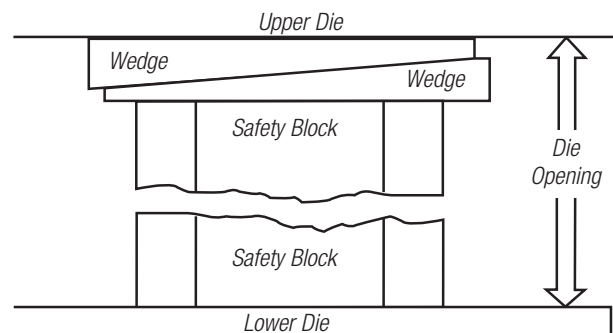
Safety Blocks and Accessories

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.

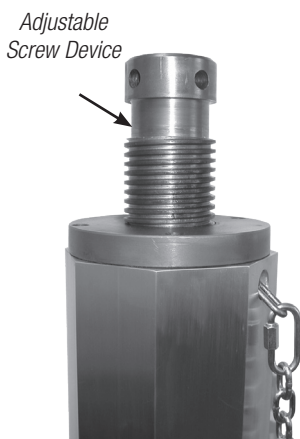


The aluminum wedges are available in three sizes to match the three safety block cross-sections. When supplied as an assembly, the wedges and safety block are connected together with a heavy-duty chain.

Part No.	Aluminum Safety Wedges
KTS571	6" Long for Small Block
KTS572	7" Long for Medium Block
KTS573	8" Long for Large Block
KTS570	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
KTS574	2" Adjustable Screw Device for Small Octagonal Block
KTS575	2" Adjustable Screw Device for Medium Octagonal Block
KTS584	4" Adjustable Screw Device for Small Octagonal Block
KTS585	4" Adjustable Screw Device for Medium Octagonal Block
KTS598	6" Adjustable Screw Device for Large Octagonal Block

(Continued on next page.)

Rockford Systems, LLC
Call: 1-800-922-7533

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. KTS504) to secure the safety block assembly in place.

Part No.	Description	Shelf Dimensions
KTS003	Small Safety Block Holder	8" x 8"
KTS005	Large Safety Block Holder	10½" x 10½"

ELECTRICAL INTERLOCK SYSTEMS



Part No.
KTS503

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

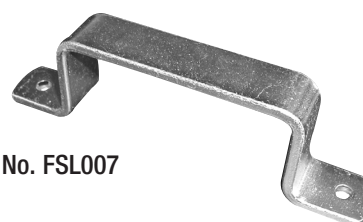
Part No.	Description
KTS503	One-Contact Interlock System With 12" Chain
KTS518	One-Contact Interlock System With 24" Chain
KTS533	Two-Contact Interlock System With 24" Chain
KTS534	Two-Contact Interlock System With 12" Chain

Replacement Parts for Electrical Interlock Systems

Part No.	Description
KTS515	One-Contact Receptacle
KTS516	One-Contact Plug With 12" Chain
KTS517	One-Contact Plug With 24" Chain
KTS530	Two-Contact Receptacle
KTS531	Two-Contact Plug With 12" Chain
KTS532	Two-Contact Plug With 24" Chain
CTK004	Mounting Box
KTS519	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. FSL007

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
KTS520*	10	6 $\frac{3}{4}$ "	1 $\frac{1}{4}$ "	8"	4 $\frac{7}{8}$ "	8
KTS521	10	8 $\frac{3}{4}$ "	3 $\frac{1}{2}$ "	12 $\frac{1}{4}$ "	5 $\frac{5}{8}$ "	10
KTS522	10	12 $\frac{3}{4}$ "	7 $\frac{1}{4}$ "	20"	6 $\frac{1}{2}$ "	13
KTS523	20	9 $\frac{1}{2}$ "	2 $\frac{3}{4}$ "	12 $\frac{1}{4}$ "	6 $\frac{3}{8}$ "	18
KTS524	20	11 $\frac{1}{2}$ "	4 $\frac{1}{2}$ "	16"	6 $\frac{5}{8}$ "	22
KTS525	20	17 $\frac{1}{2}$ "	9 $\frac{1}{2}$ "	27"	7 $\frac{3}{4}$ "	35
KTS526	24	11 $\frac{3}{4}$ "	3 $\frac{1}{4}$ "	15"	7 $\frac{1}{4}$ "	31
KTS527	24	15 $\frac{3}{4}$ "	6 $\frac{1}{2}$ "	22 $\frac{1}{4}$ "	7 $\frac{7}{8}$ "	40
KTS528	24	21 $\frac{3}{4}$ "	12"	33 $\frac{3}{4}$ "	9 $\frac{1}{4}$ "	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, LLC, 5795 Logistics Parkway, Rockford, IL 61109. Make sure the RMA Number is plainly identified on the outside of the shipping container.