IMPORTANT: PLEASE REVIEW THIS ENTIRE PUBLICATION BEFORE INSTALLING, USING, OR MAINTAINING SAFETY BLOCKS.
SECTION 1—IN GENERAL .......................................................................................................................................................................2-5
SECTION 2—DIE SAFETY BLOCK SYSTEMS .........................................................................................................................................6-12

Safety Precautions

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 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.


   DUTIES

   SEC. 5. (a) Each employer—
   (1) shall furnish to each of his employees employ-
   ment 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 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)
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 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:

• 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.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.
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.

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 for a replacement label and do not operate the equipment until the warning label is in place.

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-323

Label No. KST-330
**SECTION 2—DIE SAFETY BLOCK SYSTEM**

**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.

**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 ⅛” 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.
### X-Shaped Safety Block Specifications

![X-shaped safety block diagram]

<table>
<thead>
<tr>
<th>Block Length (Height)</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;-24&quot;</td>
<td>97,000 (48)</td>
<td>203,000 (101)</td>
<td></td>
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<td>189,000 (94)</td>
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<tr>
<td>30½&quot;-36&quot;</td>
<td>86,000 (43)</td>
<td>171,000 (85)</td>
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<tr>
<td>36½&quot;-42&quot;</td>
<td>84,000 (42)</td>
<td>169,000 (84)</td>
<td></td>
</tr>
<tr>
<td>42½&quot;-48&quot;</td>
<td>73,000 (36)</td>
<td>165,000 (82)</td>
<td></td>
</tr>
<tr>
<td>48½&quot;-54&quot;</td>
<td>71,000 (35)</td>
<td>146,000 (73)</td>
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<tr>
<td>54½&quot;-60&quot;</td>
<td>69,000 (34)</td>
<td>144,000 (72)</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Weight of Blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small</td>
</tr>
<tr>
<td>Large</td>
</tr>
</tbody>
</table>

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

#### Part Number

<table>
<thead>
<tr>
<th>Way Furnished</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>KTS-609</td>
<td></td>
<td>KTS-610</td>
</tr>
<tr>
<td>B</td>
<td>KTS-605</td>
<td></td>
<td>KTS-606</td>
</tr>
<tr>
<td>C</td>
<td>KTS-607</td>
<td></td>
<td>KTS-608</td>
</tr>
</tbody>
</table>

### U-Shaped Safety Block Specifications

![U-shaped safety block diagram]

<table>
<thead>
<tr>
<th>Block Length (Height)</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;-24&quot;</td>
<td>88,500</td>
<td>126,000</td>
<td>169,500</td>
</tr>
<tr>
<td>30&quot;</td>
<td>87,000</td>
<td>123,000</td>
<td>166,000</td>
</tr>
<tr>
<td>36&quot;</td>
<td>84,000</td>
<td>120,500</td>
<td>162,000</td>
</tr>
<tr>
<td>42&quot;</td>
<td>81,500</td>
<td>117,500</td>
<td>159,000</td>
</tr>
<tr>
<td>48&quot;</td>
<td>79,000</td>
<td>114,000</td>
<td>156,000</td>
</tr>
<tr>
<td>54&quot;</td>
<td>76,500</td>
<td>112,000</td>
<td>152,000</td>
</tr>
<tr>
<td>60&quot;</td>
<td>74,000</td>
<td>108,500</td>
<td>148,500</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Way Furnished</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>KTS-561</td>
<td></td>
<td>KTS-563</td>
</tr>
<tr>
<td>B</td>
<td>KTS-564</td>
<td></td>
<td>KTS-566</td>
</tr>
<tr>
<td>C</td>
<td>KTS-554</td>
<td></td>
<td>KTS-556</td>
</tr>
</tbody>
</table>

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
SECTION 2—DIE SAFETY BLOCK SYSTEM

Safety Blocks and Accessories

Octagonal Safety Block Specifications

<table>
<thead>
<tr>
<th>Block Length (Height)</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot;-24&quot;</td>
<td>88,500 (44)</td>
<td>126,000 (63)</td>
<td>169,500 (84)</td>
</tr>
<tr>
<td>24½&quot;-30&quot;</td>
<td>87,000 (43)</td>
<td>123,000 (61)</td>
<td>166,000 (83)</td>
</tr>
<tr>
<td>30½&quot;-36&quot;</td>
<td>84,000 (42)</td>
<td>120,500 (60)</td>
<td>162,000 (81)</td>
</tr>
<tr>
<td>36½&quot;-42&quot;</td>
<td>81,500 (40)</td>
<td>117,500 (58)</td>
<td>159,000 (79)</td>
</tr>
<tr>
<td>42½&quot;-48&quot;</td>
<td>79,000 (39)</td>
<td>114,000 (57)</td>
<td>156,000 (78)</td>
</tr>
<tr>
<td>48½&quot;-54&quot;</td>
<td>76,500 (38)</td>
<td>112,000 (56)</td>
<td>152,000 (76)</td>
</tr>
<tr>
<td>54½&quot;-60&quot;</td>
<td>74,000 (37)</td>
<td>108,500 (54)</td>
<td>148,500 (74)</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Way Furnished</th>
<th>Small</th>
<th>Medium</th>
<th>Large</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>KTS-589</td>
<td>KTS-590</td>
<td>KTS-591</td>
</tr>
<tr>
<td>B</td>
<td>KTS-592</td>
<td>KTS-593</td>
<td>KTS-594</td>
</tr>
<tr>
<td>C</td>
<td>KTS-595</td>
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<td>KTS-597</td>
</tr>
<tr>
<td>D</td>
<td>KTS-599</td>
<td>KTS-600</td>
<td>KTS-601</td>
</tr>
</tbody>
</table>
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 1 1/2". If the gap is more than 1 1/2", 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Aluminum Safety Wedges</th>
</tr>
</thead>
<tbody>
<tr>
<td>KTS-571</td>
<td>6&quot; Long for Small Block</td>
</tr>
<tr>
<td>KTS-572</td>
<td>7&quot; Long for Medium Block</td>
</tr>
<tr>
<td>KTS-573</td>
<td>8&quot; Long for Large Block</td>
</tr>
<tr>
<td>KTS-570</td>
<td>Safety Wedge Material in a 9' Length</td>
</tr>
</tbody>
</table>

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 1/2" 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KTS-574</td>
<td>2&quot; Adjustable Screw Device for Small Octagonal Block</td>
</tr>
<tr>
<td>KTS-575</td>
<td>2&quot; Adjustable Screw Device for Medium Octagonal Block</td>
</tr>
<tr>
<td>KTS-584</td>
<td>4&quot; Adjustable Screw Device for Small Octagonal Block</td>
</tr>
<tr>
<td>KTS-585</td>
<td>4&quot; Adjustable Screw Device for Medium Octagonal Block</td>
</tr>
<tr>
<td>KTS-598</td>
<td>6&quot; Adjustable Screw Device for Large Octagonal Block</td>
</tr>
</tbody>
</table>

(Continued on next page.)
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Shelf Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>KTS-003</td>
<td>Small Safety Block Holder</td>
<td>8” x 8”</td>
</tr>
<tr>
<td>KTS-005</td>
<td>Large Safety Block Holder</td>
<td>10½” x 10½”</td>
</tr>
</tbody>
</table>

ELECTRICAL INTERLOCK SYSTEMS

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KTS-503</td>
<td>One-Contact Interlock System With 12” Chain</td>
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<tr>
<td>KTS-518</td>
<td>One-Contact Interlock System With 24” Chain</td>
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<tr>
<td>KTS-533</td>
<td>Two-Contact Interlock System With 24” Chain</td>
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<tr>
<td>KTS-534</td>
<td>Two-Contact Interlock System With 12” Chain</td>
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Replacement Parts for Electrical Interlock Systems

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tr>
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<td>One-Contact Receptacle</td>
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<td>One-Contact Plug With 12” Chain</td>
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<td>One-Contact Plug With 24” Chain</td>
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<td>KTS-530</td>
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<td>KTS-531</td>
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<td>KTS-532</td>
<td>Two-Contact Plug With 24” Chain</td>
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<tr>
<td>CTK-004</td>
<td>Mounting Box</td>
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<tr>
<td>KTS-519</td>
<td>Quick Link</td>
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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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Capacity in Tons</th>
<th>Height Closed +</th>
<th>Screw Adjustment =</th>
<th>Height Screw Adjustment Up</th>
<th>Base Diameter</th>
<th>Weight in Pounds</th>
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<td>56</td>
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</table>

*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.

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