GENERAL INFORMATION FOR SHIELDS

DRILL PRESS SHIELDS

LATHE CHUCK SHIELDS

MILLING MACHINE SHIELDS

IMPORTANT: PLEASE REVIEW THIS ENTIRE PUBLICATION BEFORE INSTALLING, ADJUSTING, OR POSITIONING SHIELDS, AND BEFORE OPERATING OR MAINTAINING TURNING MACHINES.

5795 Logistics Parkway • Rockford, Illinois 61109 • Toll-Free 1-800-922-7533 • Phone 815-874-7891
Fax 815-874-6144 • Web Site www.rockfordsystems.com • E-Mail sales@rockfordsystems.com
Manual No. KSL-160
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 into your program include:

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.
SECTION 2—DANGER SIGNS
Shields

Danger Sign(s) to be Mounted on the Machine

Accompanying this equipment is a 5” x 6” polyethylene danger sign, part No. KSC-046, that MUST BE PERMANENTLY MOUNTED IN A PROMINENT POSITION on the machine on which this equipment is installed. This sign must be in a LOCATION THAT IS EASILY VISIBLE to the operator, setup person or other personnel work on or around the machine. ALWAYS mount this sign with bolts or rivets when installing the enclosed equipment. If any danger sign becomes destroyed or unreadable, the sign must be replaced immediately. Contact the factory for replacement danger sign(s).

Never operate this machine unless the danger sign(s) is in place.

See page 4 for details on this precautions sign.
Operator Safety Precautions Sign

Accompanying this equipment is an 8½” x 11” operator safety precautions sign, part No. KSC-048, for anyone operating the machine where this equipment will be installed.

This sign should be permanently mounted to the machine, readily accessible and visible to the operator. Attach the sign to the machine with a nylon tie through the hole provided. Additional copies of these precautions are available. Please call, write, fax, e-mail, or use the order form found on a later page in this manual.

When a language barrier or insufficient education prevents a person from reading or understanding the contents of this sign, you should either translate this information or have it read or interpreted to the person. Make sure the person understands the information. To order this sign in Spanish, use Part No. KSC-048S; in French, use Part No. KSC-048F.

These precautions must be reviewed daily.

Do Not Operate This Machine Until You Read and Understand the Following Safety Precautions.

1. Do not operate the machine when you do not understand that the machine is dangerous. Never allow anyone to operate the machine who does not understand the safety precautions.
2. Never operate the machine without the use of a properly adjusted guard, shield, or some other effective means of protection.
3. Always check the machine before operating it.
4. Never operate the machine with a damaged or misaligned guard, shield, or safety device.
5. Never operate the machine with broken, missing, unsecured, or damaged safety equipment.
6. Always use proper tooling and cutting tools for the machine.
7. Always wear protective clothing and equipment.
8. Always operate the machine slowly and smoothly.
9. Always follow the manufacturer’s operating instructions.
10. Always keep the area around the machine clear of debris.
11. Always keep the area around the machine clear of bystanders.
12. Always keep the area around the machine clear of tools or parts.
13. Always keep the area around the machine clear of loose clothing or jewelry.
14. Always keep the area around the machine clear of unnecessary hair styles.
15. Always keep the area around the machine clear of any flammable or explosive substances.
16. Always keep the area around the machine clear of any metal objects.
17. Always keep the area around the machine clear of any other foreign objects.
18. Always keep the area around the machine clear of any unauthorized persons.
19. Always keep the area around the machine clear of any unauthorized tools.
20. Always keep the area around the machine clear of any unauthorized equipment.
21. Always keep the area around the machine clear of any unauthorized personnel.
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56. Always keep the area around the machine clear of any unauthorized personnel.
57. Always keep the area around the machine clear of any unauthorized machines.
OSHA and ANSI 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 regulations on employers (users) to ensure the machines used in their plants, factories or facilities are thoroughly inspected and in first-class operating condition before any of the enclosed equipment is installed.

OSHA, 29 CFR (Code of Federal Regulations) that an employer (user) must comply with include:

SECTION *1910.212 GENERAL REQUIREMENTS FOR ALL MACHINES

(a) Machine guarding - (1) Types of guarding. One or more methods of machine guarding shall be provided to protect the operator and other employees in the machine area from hazards such as those created by point of operation, ingoing nip points, rotating parts, flying chips and sparks. Examples of guarding methods are - barrier guards, two-hand tripping devices, electronic safety devices, etc.

(2) General requirements for machine guards. Guards shall be affixed to the machine where possible and secured elsewhere if for any reason attachment to the machine is not possible. The guard shall be such that it does not offer an accident hazard in itself.

(3) Point of operation guarding. (i) Point of operation is the area on a machine where work is actually performed upon the material being processed.

(j) The point of operation of machines whose operation exposes an employee to injury, shall be guarded. The guarding device shall be in conformity with any appropriate standards therefor; or, in the absence of applicable specific standards, shall be so designed and constructed as to prevent the operator from having any part of his body in the danger zone during the operating cycle.

(iii) Special hand tools for placing and removing material shall be such as to permit easy handling of material without the operator placing a hand in the danger zone. Such tools shall not be in lieu of other guarding required by this section, but can only be used to supplement protection provided.

(iv) The following are some of the machines which usually require point of operation guarding:

SECTION *1910.219 (b)(1) MECHANICAL POWER-TRANSMISSION APPARATUS

(b) Prime-mover guards—(1) Flywheels. Flywheels located so that any part is seven (7) feet or less above floor or platform shall be guarded in accordance with the requirements of this subparagraph:

(i) With an enclosure of sheet, perforated, or expanded metal, or woven wire;

(ii) With guard rails placed not less than fifteen (15) inches nor more than twenty (20) inches from rim. When flywheel extends into pit or is within 12 inches of floor, a standard toeboard shall also be provided;

(iii) When the upper rim of flywheel protrudes through a working floor, it shall be entirely enclosed or surrounded by a guardrail and toeboard.

(iv) For flywheels with smooth rims five (5) feet or less in diameter, where the preceding methods cannot be applied, the following may be used: a disk attached to the flywheel in such manner as to cover the spokes of the wheel on the exposed side and present a smooth surface and edge, at the same time providing means for periodic inspection. An open space, not exceeding four (4) inches in width, may be left between the outside edge of the disk and the rim of the wheel if desired, to facilitate turning the wheel over. Where a disk is used, the keys or other dangerous projections not covered by disk shall be cut off or covered. This subdivision does not apply to flywheels with solid web centers.

(v) Adjustable guard to be used for starting engine or for running adjustment may be provided at the flywheel of gas or oil engines. A slot opening for jack bar will be permitted.

(vi) Wherever flywheels are above working areas, guards shall be installed having sufficient strength to hold the weight of the flywheel in the event of a shaft or wheel mounting failure.

*See OSHA, 29 Code of Federal Regulations, Subpart O, for complete sections.
SECTION 3—SAFETY REFERENCES

Shields

Safety Sources

This manual does not cover all aspects of a safety program. There are many publications on the subject of safety. Some publications and sources that are useful in organizing and implementing a safety program for metal turning machines are as follows:

ANSI Standards
B11.6 Manual Turning Machines (Lathes)
B11.8 Drilling, Milling, and Boring Machines
B11.9 Grinding Machines
01.1 Woodworking Machinery

These standards can be purchased by contacting:

ANSI
American National Standards Institute, Inc.
25 West 43rd Street, 4th Floor
New York, New York 10036
Phone: 212-642-4900
Fax: 212-302-1286
wwwansi.org

OR

AMT
The Association for Manufacturing Technology
7901 Westpark Drive
McLean, VA 22102-4206
Phone: 703-893-2900
Fax: 703-893-1151
www.amtonline.org

OSHA’s Publications
General Industry Safety and Health Regulations Part 1910,
CFR, Subpart O
Concepts and Techniques of Machine Safeguarding, OSHA 3067

These publications can be purchased by contacting:

US Government Printing Office
P.O. Box 371954
Pittsburgh, PA 15250-7954
Phone: 202-512-1800
http://bookstore.gpo.gov

Other Safety Sources
National Institute of Occupational Safety and Health (NIOSH)
4676 Columbia Parkway
Cincinnati, OH 45226
Toll-Free: 1-800-35-NIOSH (1-800-356-4674)
Phone: 513-533-8238
www.cdc.gov/niosh

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.

Warranty, Disclaimer and Limitation of Liability

WARRANTY

Rockford Systems, LLC warrants that this product will be free from defects in material and workmanship for a period of 12 months from the date of shipment thereof. ROCKFORD SYSTEMS LLC’S OBLIGATION UNDER THIS WARRANTY IS EXPRESSLY AND EXCLUSIVELY LIMITED to repairing or replacing such products which are returned to it within the warranty period with shipping charges prepaid and which will be disclosed as defective upon examination by Rockford Systems, LLC This warranty will not apply to any product which will have been subject to misuse, negligence, accident, restriction and use not in accordance with Rockford Systems, LLC’s instructions or which will have been altered or repaired by persons other than the authorized agent or employees of Rockford Systems, LLC Rockford Systems, LLC’s warranties as to any component part is expressly limited to that of the manufacturer of the component part.

DISCLAIMER

The foregoing Warranty is made in lieu of all other warranties, expressed or implied, and of all other liabilities and obligations on the part of Rockford Systems, LLC, including any liability for negligence, strict liability, or otherwise, and any implied warranty of merchantability or fitness for a particular purpose is expressly disclaimed.

LIMITATION OF LIABILITY

Under no circumstances, including any claim of negligence, strict liability, or otherwise, shall Rockford Systems, LLC be liable for any incidental or consequential damages, or any loss or damage resulting from a defect in the product of Rockford Systems, LLC.

(Continued on next page.)
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. Complete this form and send with 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.

Company ____________________________________________

Address ____________________________________________

City ___________________________ State __________ ZIP ______

Phone __________________________ Fax ____________________

Contact Name _______________________ Representative ____________________

Items Authorized To Return on RMA No. __________ Original Invoice No. __________ Date __________

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Service Requested
☐ Full Credit  ☐ 25% Restocking  ☐ Repair & Return  ☐ Warranty Replacement

Reason for return (describe in detail):

________________________________________________________________________

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Return Materials Authorized by ______________________ Date __________
This instruction manual references signs and literature available for your machines. This order form is for your convenience to order additional signs and literature as needed. This order form is part of your installation manual so please make a copy of it before writing an order.

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<td>Installation Manual</td>
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<tr>
<td>KSC-046</td>
<td>Danger Sign 5” x 6” (English)</td>
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<td>KSC-046S</td>
<td>Danger Sign 5” x 6” (Spanish)</td>
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<td>Danger Sign 5” x 6” (French)</td>
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<td>KSC-048</td>
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For prices and delivery, please use address, phone or fax number listed on the front cover of this manual.

Your Signature ____________________________ Date ____________________________

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