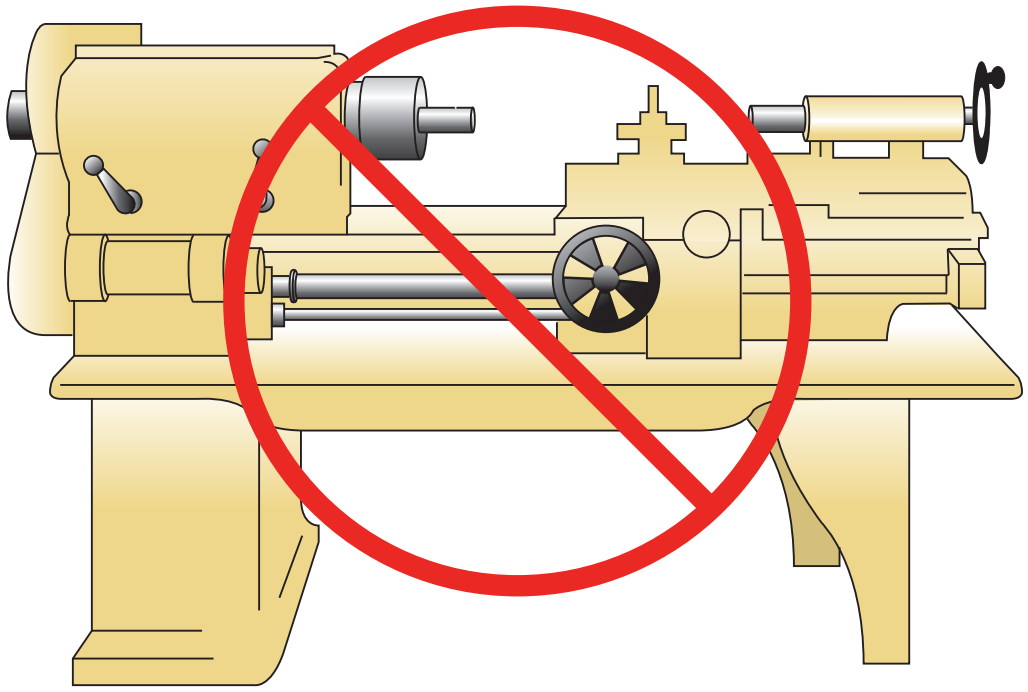
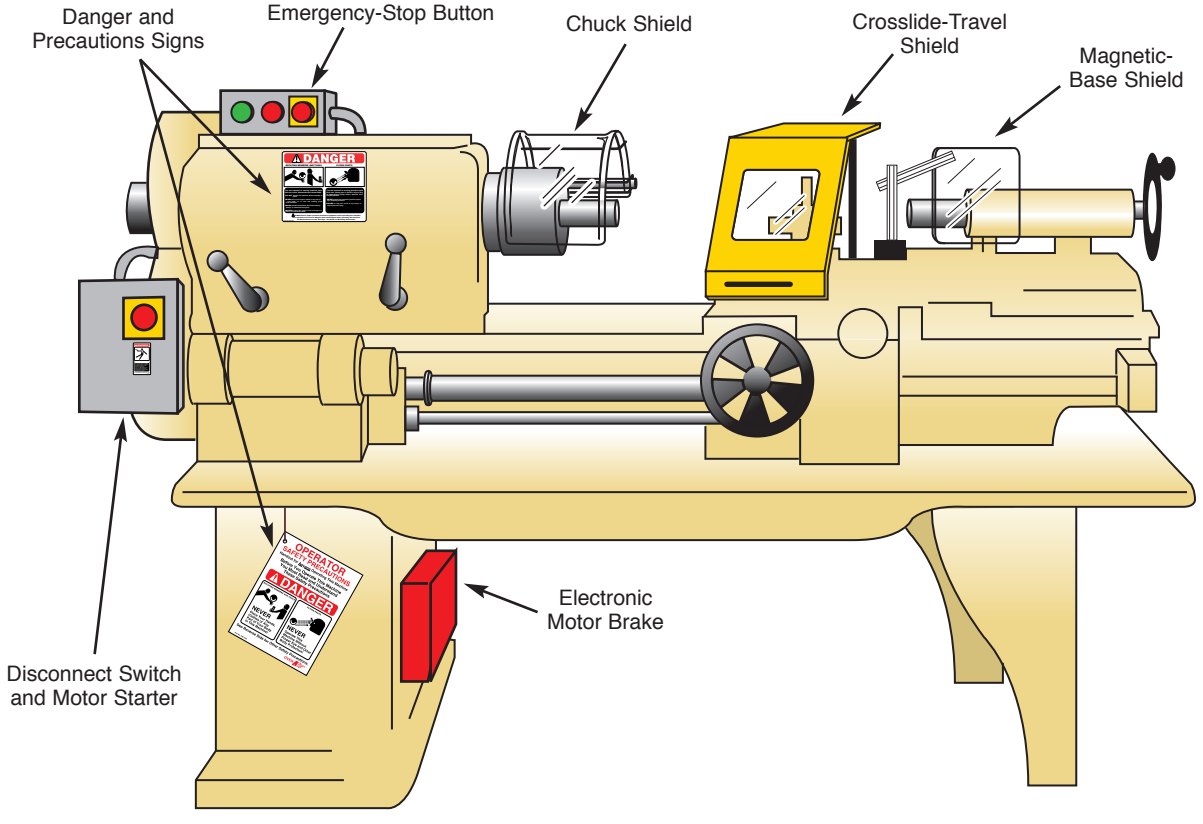
UNGUARDED LATHE



SAFEGUARDED LATHE



Electrically Interlocked Heavy-Duty Lathe Shields (Page 12)

Electrically Interlocked Heavy-Duty Crosslide/Carriage Travel Lathe Shields (Page 13)

Sliding Lathe Shields (Page 24)

Crosslide-Travel Lathe Shields (Page 25)

Small Steel Lathe Chuck Shields (Page 26)

Large Steel Lathe Chuck Shields (Page 27)

Transparent Lathe Chuck Shields (Page 28)

Rigid-Arm Magnetic-Base Shields (Page 47)

Flexible Copolymer Lock-Arm Shields (Pages 51-54)

Flexible Spring-Steel Arm Shields (Pages 55-58)

Universal Ball & Socket Shields (Pages 48-50)

On/Off Magnetic-Base Shields (Pages 59-60)

Mounting Brackets (Page 29)

Lathe Chuck Wrenches (Pages 30-31)

Sensing Saf-Start® (Page 65)

Disconnect Switches, Motor Starters, & Accessories (Pages 63-69)

SLIDING LATHE SHIELDS

Shield slid into position. Machine is ready for machining workpiece.

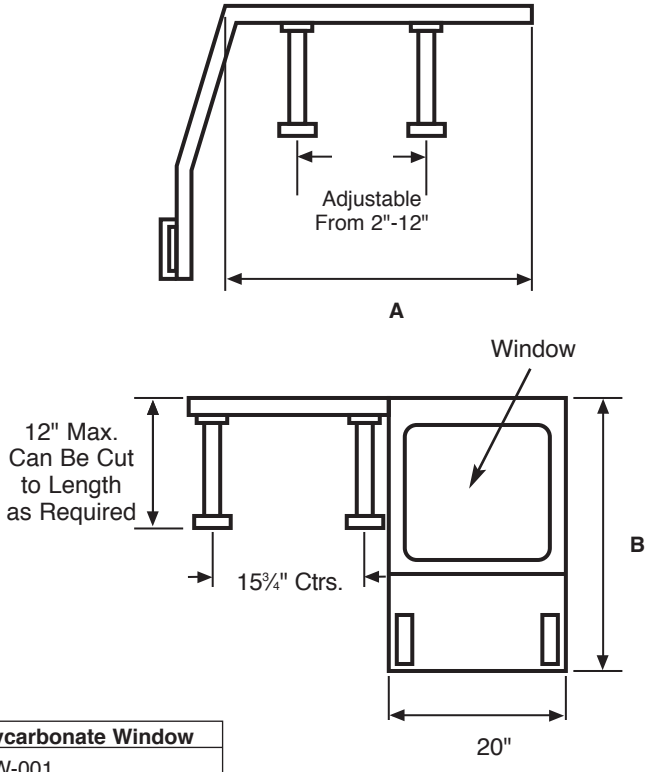
These heavy-duty sliding lathe shields are furnished in four different sizes. They are constructed of high quality, 12-gauge reinforced steel with a polycarbonate window. These shields are available for operator protection on large standard lathes, CNC machines, and OD grinders.

The shields are designed to fit lathes with chucks up to 48" in diameter. Four adjustable flanged mounting posts are provided for easy mounting. These posts are used to securely mount the shield's ball-bearing carriage to the top of the headstock, as illustrated (mounting hardware not included). This means the posts can be attached without interfering with any part of the equipment housed within the headstock.

These sliding shields slide out-of-the-way over the headstock, allowing the operator access to the point of operation for loading and unloading workpieces, changing tooling, changing chucks, removing swarf, etc. Each shield has approximately 22" of travel.

When ordering these sliding shields, check lathe dimensions and reference drawings. Special sizes are available on request.

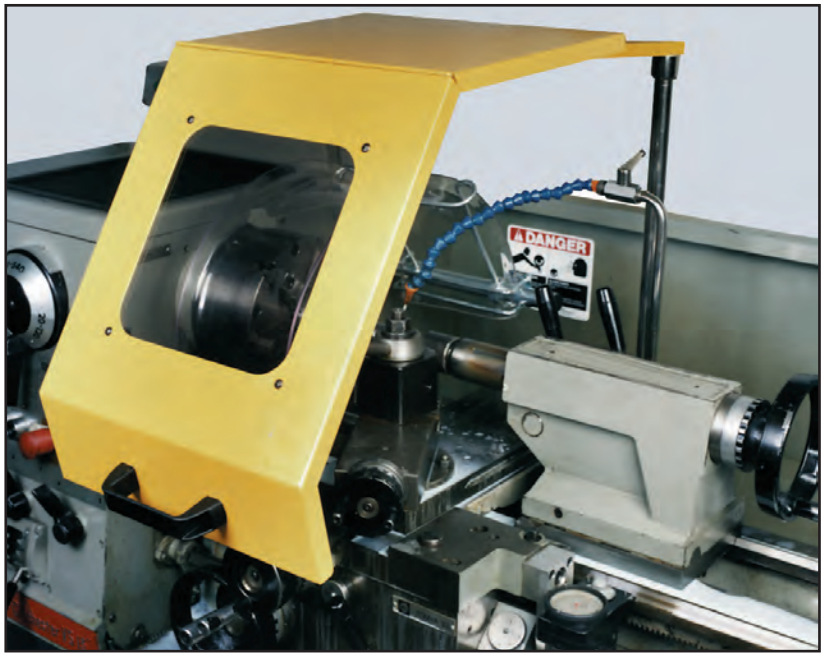
DIMENSIONS



Ordering Information

Part No.	A	B	Chuck Diameter	Replacement Polycarbonate Window
MAJ-700	26"	21"	28"	MAW-001
MAJ-800	27¼"	23"	32"	MAW-002
MAJ-100	29½"	27"	40"	MAW-003
MAJ-120	33¼"	30¾"	48"	MAW-004

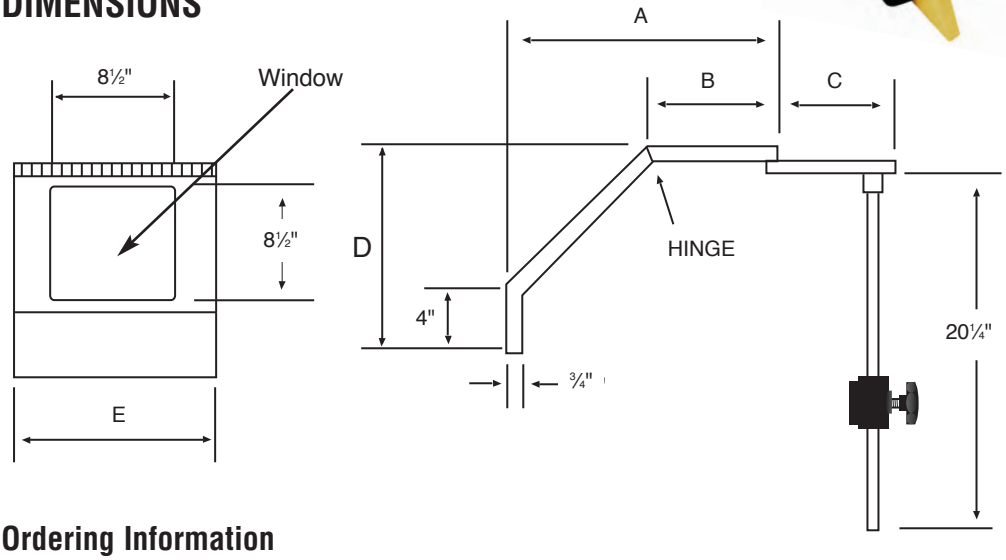
CROSSLIDE-TRAVEL LATHE SHIELDS



Shield travels with the crosslide for operator protection.

These lathe shields mount on and travel with the crosslide for protection when machining long workpieces. The 18-gauge reinforced steel structure provides protection from flying chips and coolant. The high-impact-resistant polycarbonate window permits visibility into the point of operation. The front portion of the shield hinges up for access. These shields are ideal for lathes with long beds. Special sizes are available on request.

DIMENSIONS



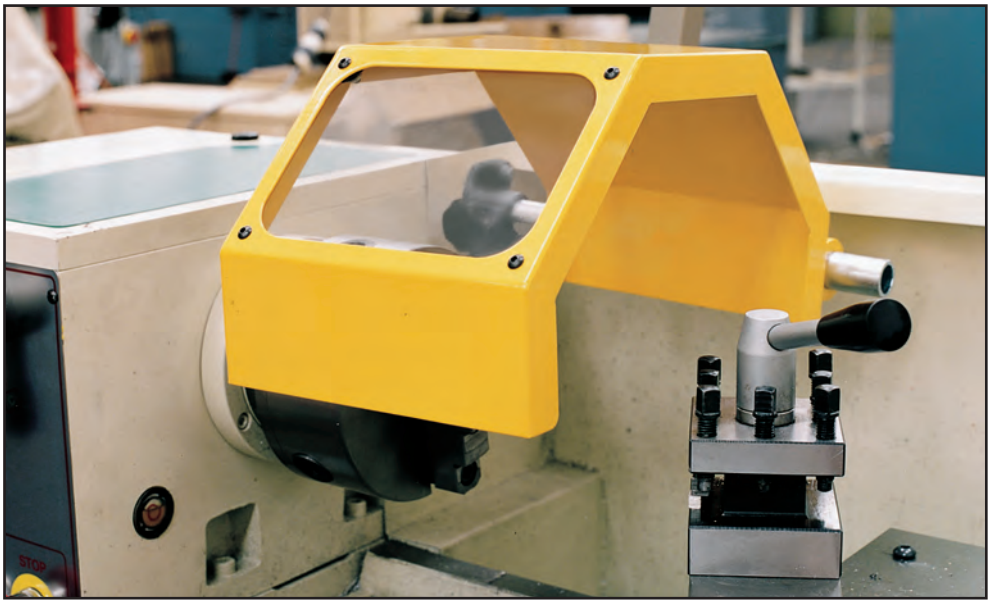
Mounting brackets are sold separately. See page 29 for mounting bracket choices.

Ordering Information

Part No.	A	B	C	D	E
TXS-100	17"	8"	10"	12"	12"
TXS-200	23"	11"	12"	14½"	13¾"

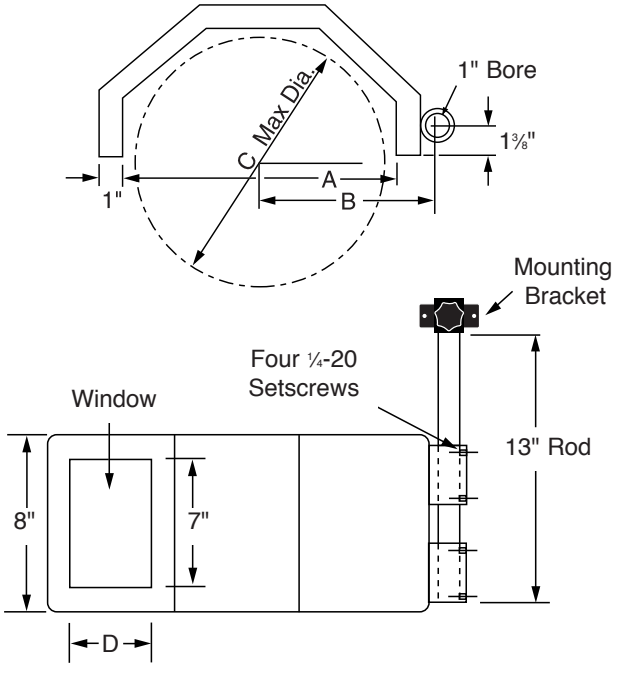
Part No.	Description
TXW-000	Replacement Polycarbonate Window

SMALL STEEL LATHE CHUCK SHIELDS



Shield in position. Machine is ready for machining workpiece.

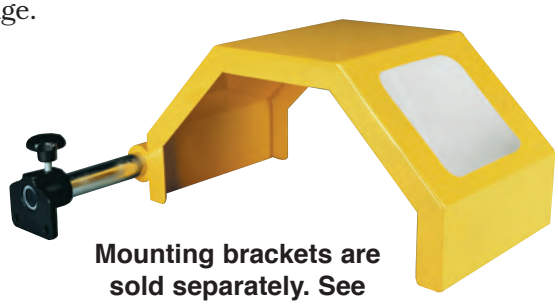
DIMENSIONS



These sturdily constructed steel chuck shields are fabricated of 18-gauge steel with reinforced sides and can be used on smaller lathes that have up to 18½" diameter chucks.

Each shield is furnished with a 1" x 13" mounting rod which can be cut to length if required. This mounting rod is fastened to the headstock of the lathe. The mounting rod is also used to hinge the entire shield. The shield can be lifted and swung up for quick and easy access to the chuck and the part being machined. This shield includes a high-impact-resistant polycarbonate window which permits visibility into the point of operation. Various types of mounting brackets are available and are sold separately—see page 29.

If shields for larger lathes are required, please see the next page.

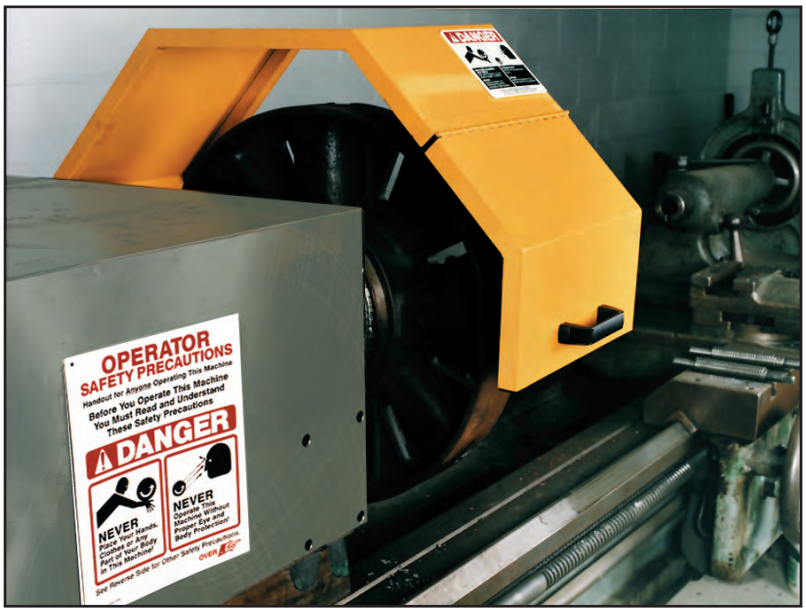


Mounting brackets are sold separately. See page 29 for mounting bracket choices.

Ordering Information

Part No.	A	B	C	D	Replacement Polycarbonate Window
TPS-300	12"	7½"	11"	4¾"	TPW-003
TPS-400	15½"	9¼"	14½"	6¼"	TPW-004
TPS-500	19¼"	11½"	18¼"	8"	TPW-005

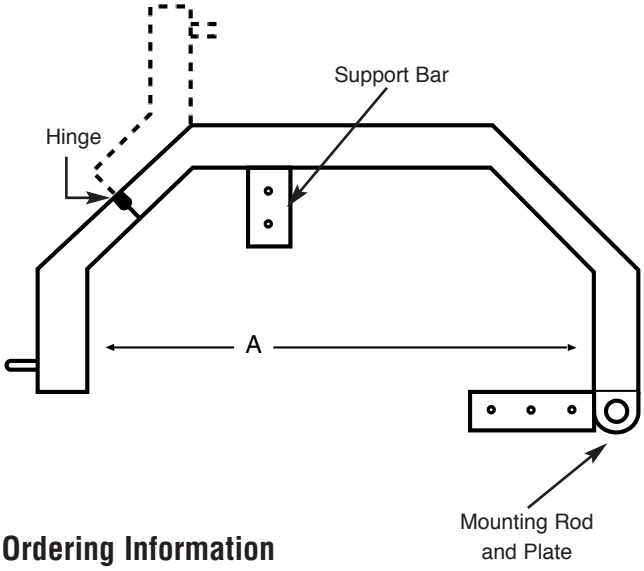
LARGE STEEL LATHE CHUCK SHIELDS



The hinged portion can be swung up for workpiece changes.

These fabricated 18-gauge steel chuck shields with reinforced sides can be used on large lathes that have chucks up to 47" in diameter. They are double hinged for access to the chuck, workpiece, and tool. The front hinged portion can be swung up for workpiece changes, and the entire shield can be hinged back for changing chucks.

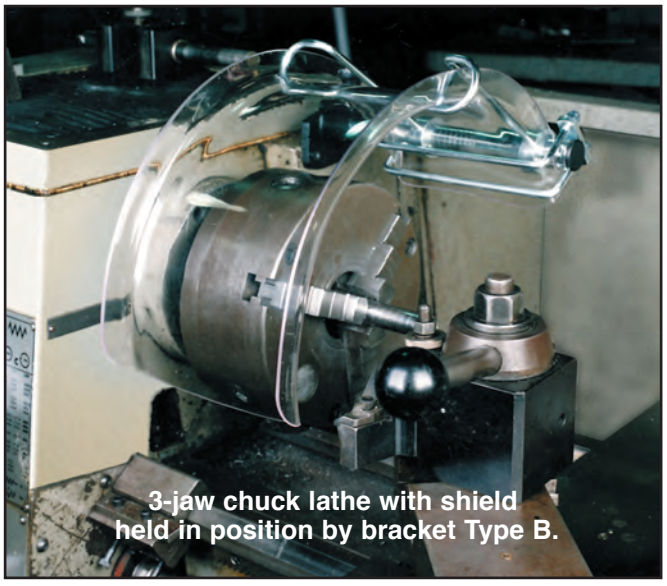
Each shield is furnished with a mounting rod, plate and support bar for mounting the shield to the face of the headstock. The rear mounting bracket hinges the entire shield, and the side mounting bracket supports the shield in its normal operating position.



Ordering Information

Part No.	Dimension A
TPS-600	24"
TPS-800	32"
TPS-100	40"
TPS-120	47½"

TRANSPARENT LATHE CHUCK SHIELDS



3-jaw chuck lathe with shield held in position by bracket Type B.

These quality-constructed lathe chuck shields have a semicircular shape made from high-impact-resistant transparent polycarbonate. The shields themselves are attached to a 1" zinc-plated extension tube. This tube is inserted into one of the mounting brackets described on the next page. The shield assembly does not include the mounting bracket.

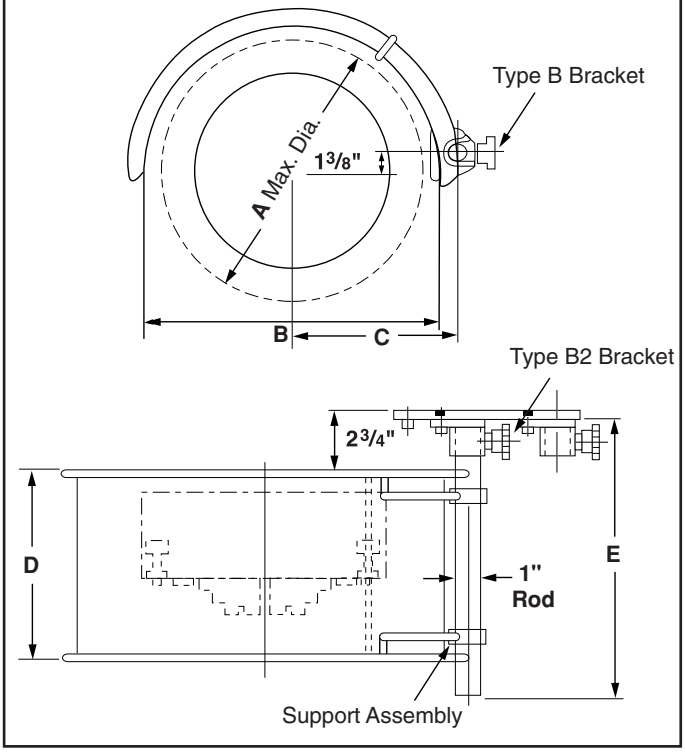
The semicircular shield covers half the circumference of the lathe chuck because it is mounted an equal distance from the chuck center.

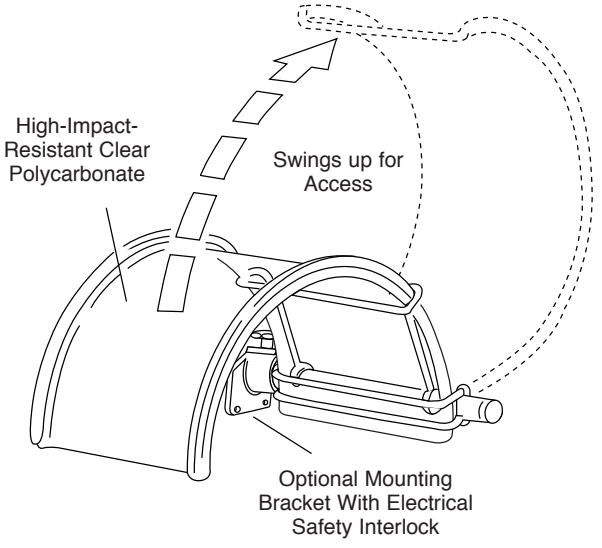
Access to the chuck and workpiece is quick and easy. The shield is lifted up and out of the way for the operator.

The shield size depends on the center height of the lathe and the diameter of the chuck. On lathes with a center height up to 7", there is a small variation in diameter between the 3- and 4-jaw chucks; therefore, one size shield will do the job.

On lathes with a center height in excess of 7", there is a greater variation in diameter between the chucks; therefore, it is advisable to use two different size shields to provide adequate protection.

DIMENSIONS





Mounting brackets are sold separately. See page 29 for mounting bracket choices.

Ordering Information

Part No.	A	B	C	D	E	Replacement Shield
LXS-300	10"	12"	7"	6½"	10"	LXS-301
LXS-400	14"	15½"	8½"	7¾"	13"	LXS-401
LXS-500	18"	19½"	10½"	7¾"	13"	LXS-501
LXS-600	23½"	24¼"	12¾"	7¾"	13"	LXS-601
LXS-700	26"	28"	14¾"	7¾"	13"	LXS-701

We recommend a Sensing-Saf-Start® or disconnect switch for all power-driven machines—see pages 64-69.

MOUNTING BRACKETS

The zinc-plated extension tube, to which the polycarbonate and steel shields are fastened, is mounted to the headstock of the lathe by a mounting bracket.

There are two principal types of mounting brackets available. Type A is used for mounting to the top or the side of the headstock. Type B is used for mounting to the inside face of the headstock.

Bracket Type A
Part No. LXS-650

For mounting to the top or side of the headstock.

For difficult mounting conditions, bracket Type A1 may be used. This bracket incorporates a telescopic height adjustment (up to 2") and can be swiveled up to an angle of 90° as required.

Bracket Type A1
Part No. LXS-651

For extended mounting to top or side of the headstock.

Bracket Type B2
Part No. LXS-653

For mounting to the face of the headstock when two different sized shields are used.

Bracket Type B
Part No. LXS-652

For mounting to the face of the headstock.

Bracket Type B2 is a two-socket mounting. It can be fastened to the face of the headstock where shields with different diameters may be used. It accommodates 3-jaw and 4-jaw chucks. The inner socket is used for the 3-jaw chuck shield. When changing over to a 4-jaw chuck, the shield is removed from the inner socket and replaced by a larger diameter shield inserted into the outer socket. This accommodates the 4-jaw chuck.

Full dimensions, showing the transparent shield in relation to the chuck, are illustrated on page 28.

The small steel (page 26) and transparent (page 28) lathe chuck shields can be interlocked to the motor starter. When the chuck shield is lifted up, the contact on the switch is opened. This causes the machine to stop. The switch is attached to a heavy-duty mounting bracket.

Part number FKT-781 interlocking bracket assembly shown below includes mounting bracket LXS-652.

FKT-781 interlocking bracket assembly shown with rod of shield.

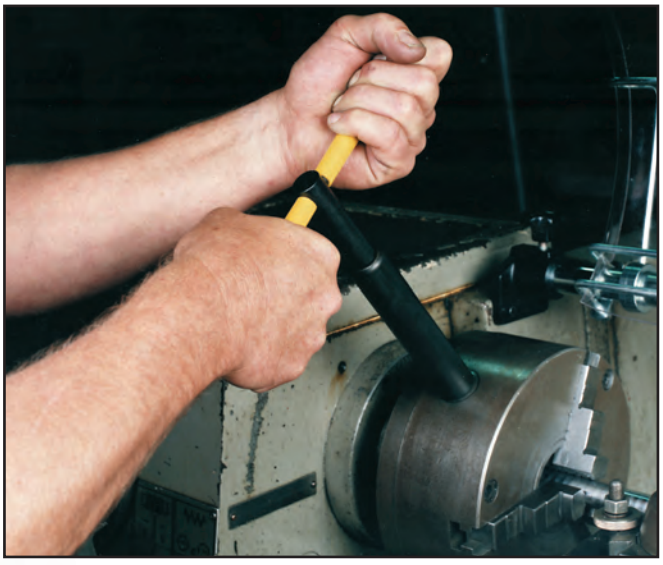
INTERLOCK SWITCH SPECIFICATIONS

Contacts	2 NO and 2 NC
Actuating Directions	4
Switching Ability	3 A @ 230 V AC, 0.27 A @ 230 V DC
Conduit Adapter	M20 to ½"
Operating Temperature	-13° to 176°F (-25° to 80°C)

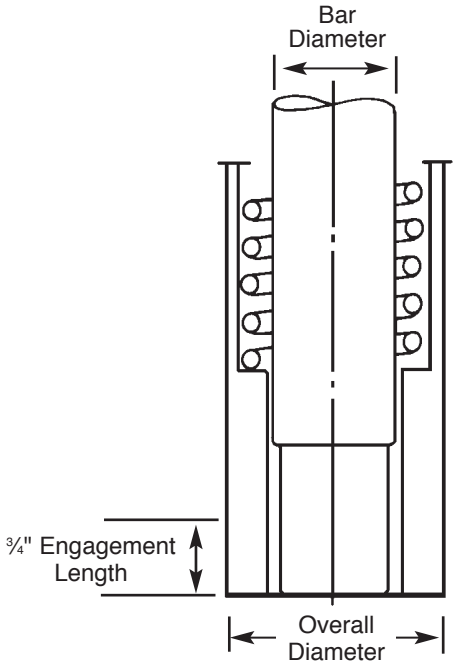
STANDARD SIZE LATHE CHUCK WRENCHES

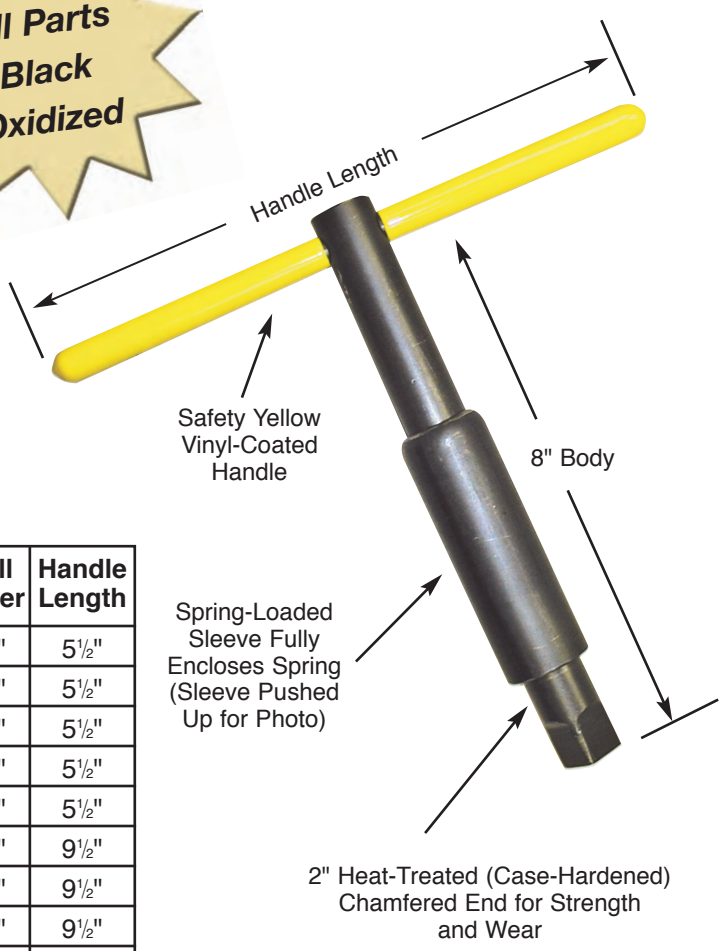
One of the most common accidents on lathes or other machines involves a chuck wrench or key which is thrown from the chuck. This happens when someone forgets to remove the wrench from the chuck before the machine is turned on.

The spring-loaded or self-ejecting chuck wrenches on pages 30 and 31 can be used on lathes or other machines equipped with manually adjusted chucks. The spring-loaded sleeve ejects the wrench from the chuck after each use. These wrenches are engineered and designed to provide proper loads for self-removal of the wrench weight.



Adjusting the chuck using a spring-loaded chuck wrench.



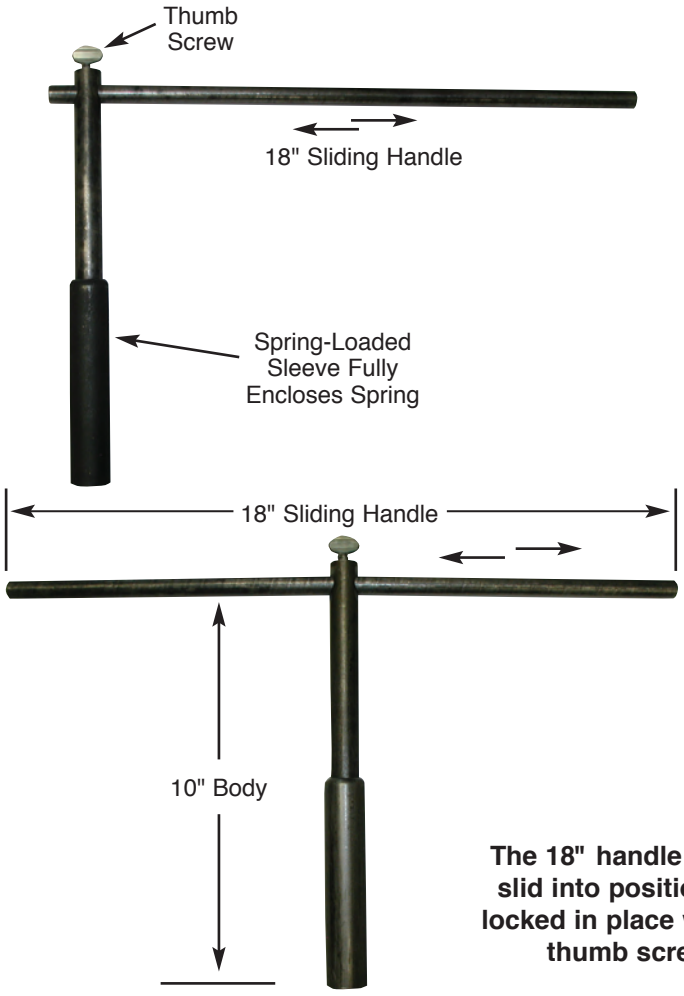


Ordering Information

Part No.	Nominal Size	Actual Size	Bar Diameter	Overall Diameter	Handle Length
KMC-011	9/32" SQ	.271"	3/4"	1.050"	5 1/2"
KMC-001	5/16" SQ	.303"	3/4"	1.050"	5 1/2"
KMC-002	3/8" SQ	.365"	3/4"	1.050"	5 1/2"
KMC-003	7/16" SQ	.427"	3/4"	1.050"	5 1/2"
KMC-004	1/2" SQ	.490"	3/4"	1.050"	5 1/2"
KMC-005	9/16" SQ	.552"	15/16"	1.315"	9 1/2"
KMC-006	5/8" SQ	.615"	15/16"	1.315"	9 1/2"
KMC-007	11/16" SQ	.678"	15/16"	1.315"	9 1/2"
KMC-008	3/4" SQ	.740"	15/16"	1.315"	9 1/2"
KMC-500	1/2" HEX	.490"	3/4"	1.050"	5 1/2"
KMC-501	5/8" HEX	.615"	3/4"	1.050"	9 1/2"
KMC-502	3/4" HEX	.740"	15/16"	1.315"	9 1/2"

(Continued on next page.)

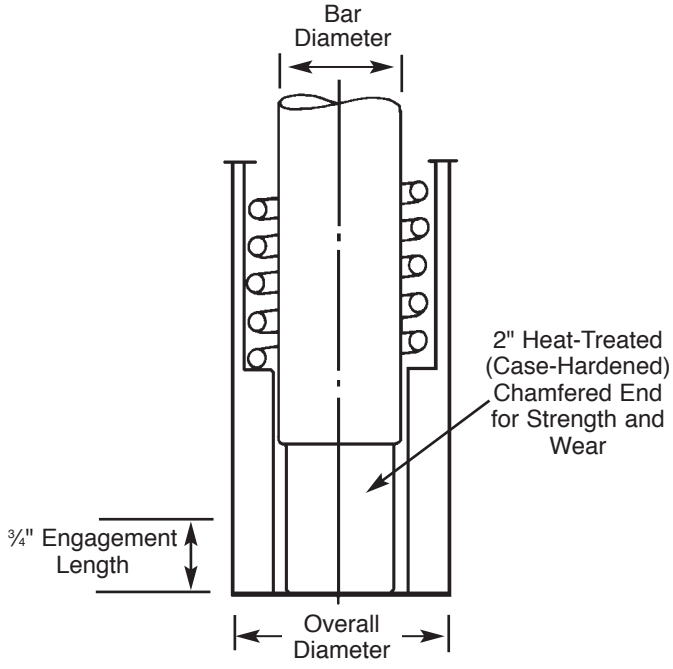
LONGER LATHE CHUCK WRENCHES



Adjusting the chuck using a long-handled spring-loaded chuck wrench.

The 18" handle can be slid into position and locked in place with the thumb screw.

All Parts Black Oxidized



Ordering Information

Part No.	Nominal Size	Actual Size	Bar Diameter	Overall Diameter
KMC-900	9/32" SQ	.271"	¾"	1.050"
KMC-901	5/16" SQ	.303"	¾"	1.050"
KMC-902	⅜" SQ	.365"	¾"	1.050"
KMC-903	7/16" SQ	.427"	¾"	1.050"
KMC-904	½" SQ	.490"	¾"	1.050"
KMC-905	9/16" SQ	.552"	15/16"	1.315"
KMC-906	⅝" SQ	.615"	15/16"	1.315"
KMC-907	11/16" SQ	.678"	15/16"	1.315"
KMC-908	¾" SQ	.740"	15/16"	1.315"
KMC-909	½" HEX	.490"	¾"	1.050"
KMC-910	⅝" HEX	.615"	¾"	1.050"
KMC-911	¾" HEX	.740"	15/16"	1.315"