Tire Slings
Small - 92091005
Large - 92091003

Iowa Mold Tooling Co., Inc.
BOX 189, GARNER, IA 50438-0189
TEL: 641-923-3711
TECHNICAL SUPPORT FAX: 641-923-2424
MANUAL PART NUMBER 99900416

Iowa Mold Tooling Co., Inc. is an Oshkosh Truck Corporation company.
**WARNING**

- BEFORE ANY MATERIAL LIFTING OCCURS, READ, UNDERSTAND AND FOLLOW ALL PROCEDURES AND PRECAUTIONS DESCRIBED IN ALL MANUALS ASSOCIATED WITH THE TIRE SLING, THE VEHICLE, AND DEVICE TO WHICH THE TIRE SLING IS ATTACHED.

- OBEY ALL WARNINGS ON THE VEHICLE OR DEVICE TO WHICH THE TIRE SLING IS ATTACHED. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.

**WARNING**

- THE IMT TIRE SLINGS ARE DESIGNED FOR THE LIFTING OF HEAVY EQUIPMENT TIRES ONLY. USE OF THE TIRE SLINGS FOR OTHER LIFTING PURPOSES IS NOT RECOMMENDED. DOING SO MAY RESULT IN SERIOUS INJURY OR DEATH.

- STAND CLEAR OF SUSPENDED LOADS. DO NOT LIFT THE TIRE HIGHER THAN IS NECESSARY. DOING SO MAY BE HAZARDOUS.

- DO NOT ATTEMPT TO LIFT MORE THAN THE RATED CAPACITY AS SHOWN BELOW. DOING SO MAY RESULT IN SERIOUS INJURY OR DEATH.

### MAX TOOL CAPACITY

**SMALL TIRE SLING**

- 10,000 LBS
- 102" Max Dia.

**LARGE TIRE SLING**

- 14,000 LBS
- 122" Max Dia.

**NOTE**

To ensure safety, every user must be properly trained for the job to be performed. The following organizations provide training and instructions in tire handling:

- Tire Association of North America
  11921 Freedom Dr., Suite 550,
  Reston, VA 20190-5608
  *(Off-the-Road Tire Mounting/Demounting Instructions)*

- International Tire and Rubber Association
  PO Box 37203,
  Louisville, KY 40233-7203

This manual describes only the lifting and moving of tires with a proper sling.

**NOTE**

THE TIRE SLINGS ARE EQUIPPED WITH A SAFETY LOCK PIN AS SHOWN BELOW. SECURE THE LOCK PIN BEFORE A LIFT IS PERFORMED.

**WARNING**

FOR PROPER SLING PLACEMENT, REFER TO THE ILLUSTRATION BELOW FOR BOTH LARGE AND SMALL TIRE SLINGS. IT IS RECOMMENDED, FOR MAXIMUM LOAD CAPACITY, THAT A 60° ANGLE BE KEPT BETWEEN THE CHAIN AND TIRE. THE CHAIN LENGTH MAY BE REDUCED DUE TO OPERATING OBSTRUCTIONS, BUT THE ANGLE WILL ALSO BE REDUCED, WHICH RESULTS IN A REDUCTION IN RATED LIFTING CAPACITY OF THE CHAINS. REFER TO THE TABLE BELOW FOR LARGE SLINGS. SMALL TIRE SLINGS ARE CAPABLE OF MAXIMUM CAPACITY FROM 60° TO 30°. DO NOT ATTEMPT ANY LIFT WHEN CHAIN ANGLE IS LESS THAN 30°.
INSPECTION
Each day, before use, the tire sling must be inspected for damage and defects by a competent person designated by the owner/employer. Additional inspections shall be performed during sling use, as service conditions warrant. Damaged and/or defective tire slings shall be removed from service immediately.

For specific procedures to perform safety inspections, refer to the appropriate OSHA or MSHA standard and your employer’s work rules.

TIRE REMOVAL
• Select the proper tire sling based on the weight/dimension of the tire and the tire sling capacity.

• Position the tire sling by placing the chains as shown in Figures A, B and C.

• Refer to the Tire Association of North America’s Off-the-Road Tire Mounting/Demounting Instructions for detailed tire mounting instructions. This manual describes only the lifting and moving of tires with a proper sling.

Laying Tire on Ground
• With tire sling locked and in the vertical position, set tire on ground, keeping the chains tight.

• Rotate and lower while keeping chains taught.

• Once tire is resting on ground and chains have slack in them, unlock pins for ease of maneuvering to the horizontal position.

NOTE
WHEN MANEUVERING TIRE, KEEP CHAIN HOOKS CLEAR OF ROLLERS.

• Lock pins back into place and lift tire off ground just far enough to slide blocks under the tire. Rest tire on blocks to facilitate ease of removing chains.

CAUTION
DO NOT LAY TIRE DIRECTLY ON CHAINS AND ATTEMPT TO PULL CHAINS FROM BENEATH TIRE. DOING SO MAY DAMAGE TIRE AND ALSO MAKES THE JOB MORE DIFFICULT.

Lifting from Horizontal to Vertical
• Position sling and boom as shown on reference page (VERTICAL POSITION). Lock pins and slowly raise boom to lift tire off blocks and into the vertical position.

TIRE MOUNTING
• When lifting tire with sling, be sure sling chains are clear of the bead area.

• Be sure sling chains have a proper hold on the tire.

• When tire is partially mounted, sling chains may become slack; be sure to maneuver boom tip in front of tire to guard tire from falling.

• It is a good safety practice to leave the crane boom tip against the tire while mounting, to secure it.

NOTE
IT IS RECOMMENDED THAT THE 60° ANGLE BE COMPLIED WITH EVEN WHEN HANDLING SMALLER DIAMETER TIRES.

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• To lift tire off the rim, position tire chains so they clear rim and hub (as shown in Figure B above) and maintain the recommended 60° angle. Raise the boom slowly to tighten chains, but do not remove tire until chain rollers have safely locked in place.

WARNING
• If the operator is not careful, a tire may become loose and fall.

• The operator should always avoid being under the load.

• The operator should always pay attention to the task at hand.

• The operator should always leave himself an escape route.
The adjustable locking sling is used to efficiently maneuver from the horizontal to vertical lifting position.

SECURING THE LOAD USING THE LOCK PIN

LIFT MADE IN HORIZONTAL POSITION

LIFT MADE IN VERTICAL POSITION
### SMALL TIRE SLING (92091005)

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**MAX TOOL CAPACITY** 10,000 LBS 102" Max Dia.

### LARGE TIRE SLING (92091003)

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**MAX TOOL CAPACITY** 14,000 LBS 122" Max Dia.
IOWA MOLD TOOLING CO., INC.
BOX 189, GARNER, IA 50438-0189
TEL: 641-923-3711
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