



HORIZONTAL PRESS HP20T

SAFETY INSTRUCTIONS MANUAL



ORIGINAL INSTRUCTIONS - HP20T

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OPERATOR AND SUPERVISOR INFORMATION

This is one of four manuals supplied with your machine.

- Installation Manual
- Safety Instructions Manual
- Operations Manual
- Maintenance Manual

READ ALL MANUALS BEFORE OPERATING MACHINERY. Operating machinery before reading and understanding the contents of all four manuals greatly increases the risk of injury.

Each of the four machine manuals describe 'best practices' in handling, installing, operating and maintaining your machine. The contents of each manual is subject to change without notice due to improvements in the machinery or changes in National or International standards.

All rights reserved. Reproduction of this manual in any form, in whole or in part, is not permitted without the written consent of Edwards Manufacturing Company.

Keep all manuals close to the machine to allow for easy reference when necessary.

Provide operators with sufficient training and education in the basic functions of the machine prior to machine operation.

Do not allow for operation of the machine by unqualified personnel. Edwards Manufacturing Company is not liable for accidents arising from unskilled, untrained operation.

Do not modify or change the machine without written authorization from Edwards Manufacturing Company. Unauthorized modification to a machine may result in serious operator injury, machine damage and will void your machine warranty.

Never leave a powered machine unattended. Turn machinery **OFF** before walking away.

This machine is manufactured for use by able bodied and able minded operators only. Never operate machinery when tired or under the influence of drugs or alcohol.

Do not resell, relocate or export to a destination other than to the original point of sale. Edwards has designed this machine to meet the standards of the original receiving country and is not liable for meeting any governing body or performance standards beyond those of the original receiving country.

SIGNAL WORD DEFINITION

 **DANGER**

Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

 **WARNING**

Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

 **CAUTION**

Indicates a hazardous situation that, if not avoided, could result in mild or moderate injury.

NOTICE

Indicates information considered important, but not hazard related.

SIGNAL WORD PANEL ON MACHINE

 **DANGER**

Critical machine safety information is identified on signal word labels. Labels are attached adjacent to the potentially hazardous locations of the machine. Reference the Safety Instruction Manual for additional information regarding the potentially hazardous condition identified on the label.

Review ALL labels on the machinery, reference the operational precautions and safe operations sections within this manual before any operation activity is initiated.

Failure to read and understand the signal word labels affixed to the machinery may result in operator death or injury.

HORIZONTAL PRESS • SIGNAL WORD PANEL

⚠ DANGER	
	Hydraulic accessory controls powered by Ironworker/Porta-Power.
	Lockout power at Ironworker/Porta-Power before servicing.
⚠ WARNING	
	Shear/Crush Hazard Moving parts can cut and crush.
	Fluid Injection Hazard Hydraulic fluid is under pressure. Hydraulic fluid powers moving parts.
	Keep guards in place
NOTICE	
	Read, understand, and follow all labels shown on the machine and described in the: • Safety Instructions Manual • Installation Manual • Operations Manual • Maintenance Manual
	Keep all manuals close for easy reference.
	Trained and authorized personnel are to install, operate and service this machinery. Do not allow for operation of the machine by unqualified personnel.
	Personal protective equipment must be worn at all times during machinery operation.



DANGER PANEL

DANGER



Electrical Hazard

This is the electrical hazard symbol. It indicates there are dangerous high voltages present inside the enclosure of this product. ONLY qualified, authorized, maintenance, service or Certified Electricians should gain access to electrical panel.



Lockout Power

Danger circuits are live. Lockout/Tagout the upstream power source.

Lockout / Tagout machinery according to Employer procedures.

WARNING PANEL

WARNING



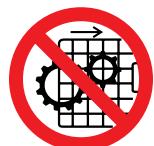
Shear/Crush Hazard

Moving parts can cut and crush. Keep hands clear while operating. Lockout power before servicing. Immediately replace guards after adjustment, repair or service.



Fluid Injection Hazard

Hydraulic hoses and cylinders are under pressure. Pressurized fluid can pierce skin and cause severe injury. To avoid physical hazard, always wear personal protective equipment. Keep hands clear while operating. Lockout power before servicing. Immediately replace guards after adjustment, repair or service.

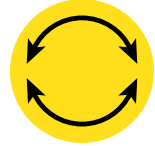


Do Not Operate With Guard Removed

Physical barriers and guards have been designed and installed to protect the Operator from moving parts that can pinch, cut and crush. Keep hands clear while operating. Lockout power before servicing. Immediately replace guards after adjustment, repair or service to moving parts.

CAUTION PANEL

CAUTION



Hand Crank

Hand Crank activates measuring system and tooling lock.

NOTICE PANEL

NOTICE



Refer to All Manuals

Each manual that comes with this machine contains critical instructions regarding proper operations, safety, installation and maintenance procedures. Understand the contents of each manual thoroughly. Failure to follow proper procedures may result in serious operator injury, machine damage and will void your machine warranty. Keep the manuals close to the machine for easy reference.



Wear Personal Protective Equipment

To avoid physical hazard, always wear personal protective equipment. Wear protective eyewear, clothing, gloves, footwear, head-gear and hearing protection while operating or servicing this machinery.

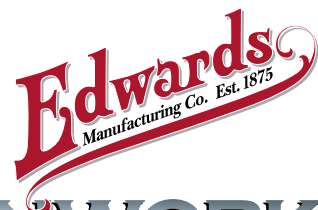
OPERATIONS

DANGER

Safe Operation

Observe the following guidelines when performing Press operations.

- **Operator safety / Safe work zone** Applying pressure to parts or assemblies can fail the part being worked, fail a part adjacent to the work or fail the pressing tool. Failed parts can become airborne projectiles with deadly force. Protect yourself with appropriate personal protective equipment when operating the press. Protect others by defining a safe work zone for press use and limiting access to the press operator.
 - **Press Inspection** Press operations may generate concussive failure to mechanical parts. Although Edwards press machinery is fabricated with both bolted and welded construction, concussive failure is a possibility over time or with extreme use. Prior to any press operation, visually check all bolted and welded connections for failure. All bolts must be tight and welds intact. Failure to verify the structural integrity of the machinery may result in workpiece shift, part ejection, operator injury or machinery damage.
 - **Workpiece Inspection** Workpiece failure is the most common source of injury during press operations. Take time to thoroughly understand the workpiece. Never apply pressure to unstable material, objects, round shapes, balls, springs or any item with elastic, spring-back tendencies. Confirm the material properties of the workpiece will withstand the pressure to be exerted by the press. Confirm that workpiece items are stripped down to their simplest form. Many components contain unseen items that could fail during the press operation. Remove all sub components known to the workpiece prior to a pressing operation. Workpiece must be clean and free of substances at the pressing surface that would allow the pressing surfaces to slip under load.
 - **Workpiece Support** Workpiece failure may be a result of improper or inadequate workpiece support. Adequate support for the workpiece must be present through the entirety of the press operation. Understand your workpiece and confirm that the workpiece support system you employ will withstand the pressure being exerted through the press operation.
 - **Safe use of tooling** Edwards Mfg. Co. provides standard tooling supplied with the HP20T. This tooling is designed to be safely used with the arbor support. Custom tooling is available for special applications. Care must be taken when selecting press tooling. Select tooling that is designed and rated for the specific application. Press with the shortest, most compact, tool length available. Confirm that press tooling and workpiece are aligned and follows a direct press path. Misaligned loads may fail the press tooling or workpiece and cause operator injury or damage to the machinery.
- **Special Fits** Not all parts were designed and engineered to be removed or applied with a press. When inspecting your workpiece, confirm any press tolerances, environmental, heating, cooling or fixative requirements that require special care prior to initiating the press operation. Do not proceed with a press operation without acknowledgement that the workpiece is pressable.
 - **Do not force press** Consider the rating of the press and the work at hand. Gradually build pressure being applied to the workpiece. Carefully observe the workpiece to avoid tooling misalignment or workpiece failure. Observe the press as it reacts under load. Do not overload the press. Take care to avoid parts falling from the workpiece.



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