



## **SAFETY INSTRUCTIONS**

Read this manual before attempting to operate the machine. Any questions pertaining to the operation of the machine should be directed to:

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### **WARNING 1**

In order to clearly show details of this machine, some covers, shields, doors or guards may have been removed or shown in an “open” position. All such protective devices shall be installed in position before operating this machine. Failure to follow this instruction may result in damage to machine components and/or personal injury.

### **WARNING 2**

#### **CUTTING FLUIDS**

When soluble oil coolants are used, it is important to ensure that recommended concentration levels are maintained.

Failure to follow with instructions can cause corrosion of safety critical parts, resulting in machine damage and/or personal injury.

## **SAFETY PRECAUTIONS**

### **IMPORTANT**

These safety precautions for this machine/unit have been prepared to assist the operator and maintenance personnel in practicing good shop safety procedures.

Operator and maintenance personnel must read and understand these precautions completely before operating, setting up, running, or performing maintenance on the machine.

These precautions are to be used as a guide to supplement safety precautions and warnings in the following:

- A.) All other manuals pertaining to the machine.
- B.) Local, plant, and shop safety rules and codes.
- C.) National safety laws and regulations.

See the latest edition of the OCCUPATIONAL SAFETY AND HEALTH STANDARDS, available from the DEPARTMENT OF LABOR, WASHINGTON, D.C.

OR

See the latest edition of the HEALTH AND SAFETY AT WORK, ETC. ACT 1974.

### **WARNING**

Read related safety precautions before operating this machine. Failure to follow safety instructions may result in personal injury and/or damage to machine components.

### **WARNING: ILLUSTRATIONS**

In order to clearly show details of this machine, some covers, shields, guards, barriers, devices or doors have either been removed or shown in an "open" position. All such protective components must be installed in position before operating this machine. Failure to follow this instruction may result in personal injury.

## **WARNING**

Failure to follow instructions on this page may result in personal injury and/or damage to machine or components.

## **GENERAL SAFETY INSTRUCTIONS AND CONSIDERATIONS**

### **PERSONAL SAFETY**

Machine owners, operators, setup men, maintenance, and service personnel must be aware of the fact that constant day-to-day safety procedures are a vital part of their job. Accident prevention must be one of the principal objectives of the job regardless of what activity is involved.

Sudden movements, loud noises, horse-play, etc. must be avoided. These distractions may result in unsafe conditions for those working near the machinery.

Observe and follow safety instructions such as “NO SMOKING”, “HIGH VOLTAGE”, “DANGER”, etc. in your working area.

Accidents can occur that result in serious personal injury to yourself or others due to clothing and other articles becoming entangled in cutters, handwheels, levers, or moving machine elements. Neckties, scarfs, gloves, loose hanging clothing, and jewelry such as watches, rings or necklaces must not be worn around moving machinery. Restrain long hair with a cap or net.

Use safety protective equipment. Wear clean approved eye or face protection. Safety toe shoes with slip-proof soles can help you avoid injury. Keep your protective equipment in good condition. Keep all guards in place. The machine/unit owner is responsible if additional guarding is required for their particular operation.

### **WORK AREA SAFETY**

Always keep your work area clean. Dirty work areas with such hazards as oil, debris, or water on the floor may cause someone to fall to the floor, into the machine or onto other objects resulting in serious personal injury.

Make sure your work area is free of hazardous obstructions and be aware of protruding machine members.

Report unsafe working conditions to your supervisor or safety department. Items such as: worn or broken flooring, ladders and handrails, unstable or slippery platforms or scaffolds must be reported and repaired before use. Do not use skids, workpieces, stock, machines, tote pans, and boxes as makeshift climbing aids.

## **WARNING:**

Failure to follow instructions on this page may result in personal injury and/or damage to machine or components.

## **INSTALLATION SAFETY FOR UNITS AND MACHINES**

An electrician must read and understand the electrical schematics prior to connecting the machine or units to the power source. After connecting the machine or units, test all aspects of the electrical system for proper functioning. Always make sure the machine is grounded properly. Be certain that all exposed electrical systems are covered properly.

Place all selector switches in their OFF or neutral (disengaged) position. The doors of the main electrical cabinet must be closed and the main disconnect switch must be in the OFF position after the power source connection is complete.

Always lock the main disconnect device in the OFF position if the machine is left unattended. Never bypass or wire around safety devices.

When the machine or unit is installed, be sure that the motors rotate in the proper indicated direction.

Never perform any maintenance or clean-up on the machine or unit without power being OFF, air or hydraulic pressure OFF, master OFF and main disconnect OFF and LOCKED OUT. Also, make sure there is no residual pressure in the hydraulic or airline before performing any maintenance on machine or components.

## **SETUP AND OPERATION SAFETY**

Read and understand all the safety instructions before setting up, operating, or servicing this machine or unit. Assign only qualified personnel, instructed in safety and all machine functions, to operate or service this machine or unit.

Operators and maintenance personnel must carefully read, understand and fully comply with all machine mounted warning and instruction plates. Do not paint over, alter, or deface these plates or remove them from the machine. Replace all plates which become illegible. Replacement plates can be purchased from Hause Machines, Inc.

Safety guards, shields, barriers, covers and protective devices must be connected or in place before operating the machine.

Never brake or slow down moving machinery with your hand or with some makeshift device. The spindles, slides and indexers, etc. must be disabled when measuring workpieces, changing tools, or removing chips and grit.

Keep all parts of your body out of the path of moving units, trip dogs, trip plungers, and out of the “machining area” during machining operations. Never lean on a machine or reach over or through a machine – you can become entangled in tooling and other moving elements or you may accidentally activate start buttons, feed controls, rapid traverse controls, power work holding controls, or similar devices.