

# OPERATION AND MAINTENANCE INSTRUCTIONS

# MUELLER® H-614 AIR POWER OPERATOR

**General instructions:** This publication addresses some of the safety issues when operating this machine. Neglecting to follow these recommendations may pose serious hazards or result in failure of equipment. The operator of this machine must have access to, have read, and fully understand this document and the recommendations and operating instructions for the H-614 Air Power Operator.

## WARNING

**WARNING** - The operator of this machine must adhere to the following instructions to reduce the possibility of misuse of the machine or accident. Failure to observe these instructions and the following warnings could result in serious bodily injury.

## WARNING

**WARNING** - Always wear eye protection when operating or performing maintenance on this machine.

## WARNING

**WARNING** - Always wear hearing protection when operating this machine.

## WARNING

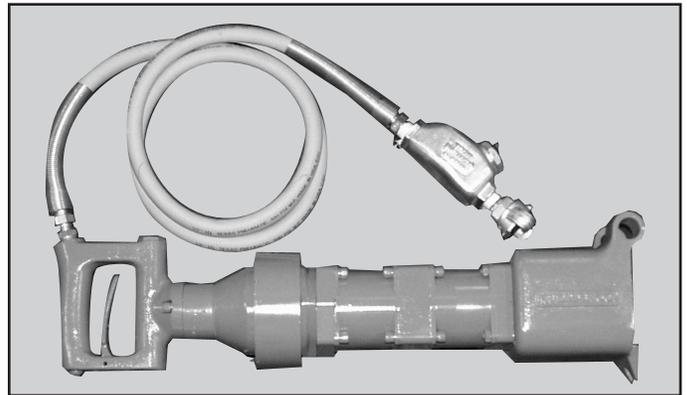
**WARNING** - Do not use damaged, frayed, loose or deteriorated air hoses or fittings.

## WARNING

**WARNING** - Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this machine, or before performing maintenance on this machine.

## CAUTION

**CAUTION** - Do not modify this machine. Doing so could void the warranty and create a safety hazard.



### Specifications for H-614 Air Power Operator:

Weight (Operator Only) -- 28 LBS. (13 kg)  
Max. HP @ RPM (Motor) -- 4.8 @5000  
Free Speed RPM (Motor) -- 5000 (governed)  
Max. HP @ RPM (Output Shaft) -- 4.4 @120  
Free Speed RPM (Output Shaft) -- 120 (governed)  
Stall Torque -- 375 Ft.-LBS.  
Air Consumption @ 90 psig -- 90 SCFM  
Inlet Connection -- 3/4" Quick-Disconnect  
Reversible -- NO  
Decibels (A Scale) -- 85 db  
Lubricator Supplied -- YES  
Hinged Storage Chest Supplied -- YES  
Shipping Weight w/Lubricator & Chest -- 65 LBS. (26 kg)

### When operating this machine:

## CAUTION

**CAUTION** - Pneumatically driven power tools are not generally insulated against coming in contact with sources of electrical current. Take necessary precautions if sources of electrical current are nearby.

## WARNING

**WARNING** - Operate this machine at 90 psig (6.2 bar/621 kPa) air pressure.

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# MUELLER® H-614 AIR POWER OPERATOR

## When operating this machine (con't):

- Use recommended lubricants only.
- Check hose for adequate size -- 3/4" minimum.
- Check air pressure at machine. The air pressure at the machine inlet with the machine running shall be 90 psig (6.2 bar/621 kPa), not to exceed 100 psig (6.9 bar/689 kPa), with no air flow.
- Regularly check the hose, hose fittings and clamps for tightness and serviceability -- avoid risk of whipping hose.
- Check to assure the exhaust air will be directed toward a safe direction to avoid blowing dust or air from the machine onto the operator or other persons in the area.

## Before attaching the H-614 operator to the drilling machine:

1. Refer to the appropriate Mueller Operating Manual to set up the drilling machine for the desired operation.
2. Check to be sure the Shell Cutter, Pilot Drill and Hub assembly is securely attached to the Machine Boring Bar.
3. Liberally lubricate the teeth and inside of the Shell Cutter, as well as the cutting edges and entire length of the Pilot Drill with Mueller Cutting Grease, part number 88366.

## Preparing the H-614 Operator:

1. Reposition the Handle/Trigger mechanism, if necessary, by removing two (2) hex socket cap screws. Rotate the Handle/Trigger in 90° increments to the desired position and secure with the two screws previously removed.
2. Remove the Air Inlet Bushing from the Handle/Trigger mechanism and clean the Filter Screen as required. (Caution: do not lose the O-ring Seal and Filter Screen. Do not operate the Air Motor unless the screen is in place.) Reinstall the Screen and Air Inlet Bushing.
3. Attach the In-line Lubricator (supplied). Add air motor lubricating oil to the Lubricator. Use Mobil DTE Light or equivalent.
4. After each eight (8) hours of use, inject one to two "pumps" of gear lubricant through the grease fitting. Use Mobilux EP-2 or equivalent.

## Install Air Power Operator onto the machine:

1. Check the Operating Manual for the specific Drilling Machine that will be used for any special instructions for installing a power operator. NOTE: If attaching the H-614 Air

Power Operator to an older model C1-36 Drilling Machine, the old style Top Bearing (part number 502707) will have to be replaced with the newer style (part number 580815), which includes the attachment arm for the power operator -- contact your authorized Mueller Distributor.

2. Rotate the Input Shaft on the Drilling Machine to align with the Coupling on the Power Operator, remove the Pivot Pin from the base of the Power Operator and mount the unit on the Drilling Machine.
3. Insert Pivot Pin to secure the Power Operator to the Drilling Machine and tighten the Thumb Screw.
4. Position and tighten the Hold Down Wing Nut provided on the Drilling Machine to complete the installation.

## Machine operation:



**WARNING** - Use only the hand to hold down the Throttle of the Power Operator. Do not use any other means to hold down the Throttle as doing so could create a dangerous situation by preventing the Power Operator from being stopped quickly for any reason -- serious bodily injury could be the result.



**CAUTION** - The H-614 unit operates the Shell Cutter and feed faster than previous models of air power operators. This must be considered when making a cut. Total cut time will be less than when a similar cut was made using older equipment.

1. Maintain 90 psig (6.2 bar/621 kPa) air pressure at the inlet of the power operator, using at least a 3/4" supply hose. Do not exceed 100 psig (6.9 bar/689 kPa) under any flow conditions.
2. In the event of a stall, release the Throttle immediately. Pause for a moment, then restart the Power Operator. If the unit stalls upon restart, disengage the Drilling Machine's Auto-Feed, manually back the Shell Cutter 1/2 to 1 turn out of the cut. Engage the Auto-Feed and restart the Power Operator.



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