Instructions for Raising the Single Stage Press Cylinder Using a Portable Pump: Installation Kits KYSSHYPP01 or KYSSHYPP02

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This installation kit is intended for use when low ceilings or roof construction methods at the installation site prohibit the use of a crane or a come-along to raise the cylinder into position. Use kit KYSSHYPP01 for 200-240V, 346-380V and 400-480V or kit KYSSHYPP02 for 600V installations. These kits require three phase power of the correct voltage at or near the machine installation site. The hydraulic pumps included in the kits draw approximately 6 amps at 220VAC. This procedure requires two technicians to lift the pump into place, handle the cylinder covers and operate the remote pump while observing the hydraulic lines and connections for leaks or breaks.

Component	Pounds	Kilograms	
Pump	105	47.7	
Cylinder cover	15	6.8	
Cylinder pump plate	45	20.5	

Table 1: Kit Component Weight

1. At The Pump

- 1. Position two drums of Shell TELLUS 68 hydraulic oil (or equivalent) next to the single stage press.
- 2. Set pump on oil drum as shown in Figure 2. Two technicians (or a suitable lifting device) are required to lift the pump.
- 3. Remove both bungs from drum top.

Danger 1: **Electrocution Hazard**—Contact with high voltage can kill or seriously injure you.

- All electrical connections must be made by a competent electrician.
- 4. Consult the motor connection plate (mounted on the inside cover of the electrical connection box) and jumper the pump motor terminal strip correctly for the available three phase power (Figure 1). Note that terminal connection 1 of the pump motor terminal strip is easily identified, as it is the only end connection with two wires.

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Pump motor and three phase power terminal	Legend
	 Position 1 on motor terminal Insert jumper wires on this side Three phase power connections

Figure 1: Electrical Connection Box Terminals

- 5. Make three phase power connections from the pump relay connections (Figure 1) to the wall disconnect box.
- 6. Energize power and verify that the pump is rotating in the clockwise direction (as viewed from the motor fan end).
- 7. Connect the 3/4" suction and 1/2" bypass hose to the pump as shown in Figure 2. Put suction and bypass hoses into oil drum.
- 8. Verify that the two position red button release knob is in the down position. The red button release functions as follows:
 - When the red button is in the up position, and the pump actuation lever is moved, oil drawn from the drum by the pump is returned directly to the drum via the bypass hose.
 - When the red button is in the down position, and the actuation lever is moved, oil drawn from the drum by the pump is sent to the device being filled.





2. At the Cylinder Tube

1. Carefully working on top of the press, completely unscrew the eyebolt and remove the cylinder cover (Figure 3). Lay a clean rag on top of the exposed cylinder to prevent debris from falling in. Retain the eyebolt, cylinder cover and bolts for later use.

- 2. Remove the cover rag and install the kit pump plate fitted with the hydraulic hose connection (Figure 4).
- 3. Connect the 1/2" fill hose to the plate fitting (Figure 5) and the fill hose connection on the pump (Figure 2).
- 4. Remove the ram drain plug from the cylinder flange (Figure 6). A small amount of oil may drip from hole after plug is removed. This oil is left over from the testing process.
- 5. Remove the shipping material from around cylinder (Figure 7).
- 6. Install the provided all-thread guide rods into three equidistant cylinder flange mounting holes (Figure 8).



Figure 4: Install Hydraulic Fitting Equipped Cylinder Cover



Figure 5: Installing Fill Hose from Pump



Figure 6: Remove Ram Drain Plug



Figure 7: Remove the Cylinder Shipping Material



Figure 8: Install the All-thread in Cylinder Flange Mounting Holes



3. Raising the Cylinder Tube

- 1. Turn on pump and actuate the pump. Please note that it takes 10-15 minutes for the pump to raise cylinder into position to be bolted up. Observe the slowly rising cylinder (Figure 9) to ensure that the all-thread guide rods smoothly enter the cylinder flange (Figure 10).
- 2. Once the ends of the guide rods have successfully passed through the flange, continue actuating the pump, while watching the rising cylinder and checking the oil lines for leaks.
- 3. Secure the cylinder with mounting bolts once cylinder is fully seated (See "Single Stage Press Installation" for additional information and torque specifications).
- 4. Pull red button release knob up to drain the oil from the cylinder fill line back into the oil drum. Disconnect fill line after cylinder is completely bolted in place.

Figure 9: Rising Cylinder Engaging the Allthread Guide Rods







4. Raising the Cylinder Rod

1. Set pump on second oil drum. Two technicians (or a suitable lifting device) are required to lift the pump off of the first drum.

- 2. Remove both bungs from drum top.
- 3. Put by-pass and suction hoses into oil drum.
- 4. Connect the 1/2" fill hose (previously used to raise the tube) to the ram drain (Figure 6).
- 5. Connect a 1" line to the fitting plate on top of the cylinder. Put the other end of this hose into the other oil drum.
- 6. Verify that the red button release knob is down.
- 7. Turn on pump and actuate the lever.
- 8. Attach the diaphragm safety bars (Figure 11) as soon as the platen is high enough to do so. If the mounting eyes do not align, push on the rising platen with a long wooden board until the eyes align.
- 9. After the diaphragm safety bars are installed, pull the red knob release knob up to drain the oil from the rod fill line back into the oil drum.
- 10. Remove the fill plate and drain all the oil lines into the drum.
- 11. Continue installation process as per "Single Stage Press Installation."

Figure 11: Diaphragm Safety Bars (Item 1)



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