



HEAVY-DUTY AIR/HYDRAULIC FLOOR TYPE PRESS WITH FOOT PEDAL 30 TONNE

MODEL NO: **YK309FAH.V3**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to
instructions



Wear safety
footwear



Wear a face
shield



Wear protective
clothing



Wear protective
gloves



WARNING!
Crushing of hands



WARNING!
Heavy item

1. SAFETY

1.1. GENERAL SAFETY

- ✓ Familiarise yourself with the applications, limitations, and hazards peculiar to the press.
- ✓ Maintain the press in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Keep the press clean for best and safest performance.
- ✓ Locate the press in an adequate working area for its function.
- ✓ Keep area clean and tidy, free from unrelated materials and ensure there is adequate lighting.
- ✓ Operate in a well-ventilated, dry environment with stable temperatures and low humidity.
- ✓ Keep the machine away from direct exposure to rain, excessive dust, and corrosive substances.
- ✓ Ensure the workpiece is correctly secured before operating the press.
- ✓ Ensure that all fittings are tight before each use.
- ✓ Ensure the operator wears appropriate PPE for the task at hand.
- ✓ Always wear approved eye or face protection when operating the press.
- NOTE:** a full range of personal safety equipment is available from your Sealey stockist.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, loose jewellery and contain long hair.
- ✓ Keep hands and body clear of the work table when operating the press.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip footwear.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ Securely attach the press to a flat, firm, level surface capable of supporting the weight of press and any workpiece taking into account clearance for workpieces.
- ✓ When not in use, release pressure from the hydraulic unit and clean the press. Stand or store the V blocks in a safe location.
- ✓ Install/store the press in a safe, dry, childproof location with normal workshop temperature.
- ✓ Follow all recommended maintenance to improve unit performance and safety.
- ✓ The noise of the pneumatic system was recorded as less than 80dB(a).
- * **DO NOT** operate the press if any parts are missing as this may cause failure and/or possible personal injury.
- * **DO NOT** use the press for a task it is not designed to perform.
- * **DO NOT** make any modifications to the press.
- * **DO NOT** adjust or tamper with the safety valve.
- * **DO NOT** exceed the rated capacity of the press.
- * **DO NOT** apply off-centre loads.
- * **DO NOT** allow the workpiece or the press plates to fall from the work table.
- * **DO NOT** get the press wet or use in damp or wet locations or areas where there is condensation.
- * **DO NOT** operate the press when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- * **DO NOT** climb upon the press.
- * **DO NOT** use to compress a spring or any other item that could disengage and cause a potential hazard including personal injury.
- * **DO NOT** stand directly in front of the loaded press and never leave a loaded press unattended.
- * **DO NOT** allow untrained persons to operate the press.
- * **DO NOT** top up hydraulic unit with brake fluid, or any other fluid other than a good quality hydraulic oil (Sealey Part Number: HJO500MLS/HJO5LS) as this may cause serious damage to the hydraulic unit and will invalidate the warranty.
- **WARNING!** Always position the press against a wall. If the press is situated in the open workshop, it is essential that a guard be placed at the rear of the unit. This will prevent injury to bystanders in the event of the workpiece ejecting suddenly.
- **WARNING!** The warnings, cautions and instructions in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.
- ▲ **DANGER!** The press is top heavy. If it requires moving after assembly or for relocation, use suitable slings around the top crossbeam, or lift direct with a forklift with the forks located under the top crossbeam. **DO NOT** use a pallet truck.

2. INTRODUCTION

Steel frame construction. Side mounted, air motor powering hydraulic pump unit with 2-speed manual operation. Sliding hydraulic ram assembly giving 190mm of lateral travel for off-centre pressing applications. Fitted with ram pressure gauge and supplied with flat pressing plate/V-blocks.

3. SPECIFICATION

Model No:..... YK309FAH.V3
 Air Consumption: 9cfm
 Bench or Floor Mounting:..... Floor
 Capacity:..... 30 Tonne
 Gauge Included:..... Yes
 Lateral Ram Travel:..... 190mm
 Maximum Height - Ram to Table: 1035mm
 Min./Max. Air Supply Pressure: 0.75/0.85MPa
 Minimum Height - Ram to Table: 55mm
 Nett Weight: 130kg
 Operating Table Width:..... 490mm

Optional Accessories:..... YKSG30 - Safety Guard
 YKPP8 - Press Pin Set
 Overall Height: 1775mm
 Ram Diameter: Ø70mm
 Ram Stroke: 150mm
 Table Aperture: 152mm
 Type: Air/Hydraulic
 Working Air Pressure: 108-123psi
 Working Table Depth: 172mm
 Working Table Width: 650mm

4. ASSEMBLY

4.1. BEFORE YOU BEGIN

Ensure you have read all safety instructions. Unpack the product and check contents. Should there be any damaged or missing parts contact your supplier immediately. Take care to ensure safety when moving main frame from packing as the unit is very heavy.

Refer to attached parts list. Seek assistance from another person on assembly of heavy parts. Assemble press, if possible, in close proximity to where the press will be located.



4.2. INDICATIONS FOR HANDLING (FIG.1)

- ❑ **WARNING!** When installing, lifting or moving the press, attach lifting means to areas as shown in fig.1.

The centre of gravity is typically central across the width, slightly toward the pressing side front-to-back, and around mid-height. Exact positioning should be confirmed with the manufacturer for safe handling.

4.3. FRAME ASSEMBLY

Attach load slings around the top cross member of the frame (#12). Use a suitable hoist/gantry to slowly, and in a controlled manner, lift the frame up and out of the transportation crate into an upright position. Keep the frame assembly in an upright position, held safely by the load slings. Take care when lifting the frame not to damage the ram assembly (#17).

- ▲ **DANGER! DO NOT** allow the frame to fall over.

4.4. ATTACH THE FEET

Attach the base feet (#10) and supports (#9) to the frame with the fixings shown. On a flat level floor, level the frame before fully tightening all fixings. Remove the load slings and store them in a safe and secure location.

- ❑ **WARNING!** Take care and seek assistance from another person when lowering and levelling the frame assembly onto the floor.

4.5. ATTACH THE PUMP ASSEMBLY

Attach the pump assembly (#39) into position using the fixings shown.

- ❑ **WARNING!** Seek assistance from another person with this task as the pump assembly is heavy.

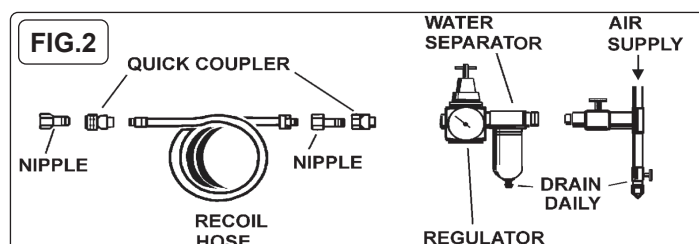
4.6. ATTACH BED FRAME

- ❑ **WARNING!** Seek assistance from another person with this task as the bed frame is heavy.

Insert table support pins (#7) through the holes on the press frame uprights at the desired height. Secure with clips (#6). Carefully lower the bed frame (#5) onto the support pins. Ensure hands and fingers are clear when lowering. Place the v-blocks (#1) onto the bed frame in the required position as shown on the parts diagram.

4.7. PRESSURE GAUGE

Attach the pressure gauge (#36) using the fittings shown on the parts diagram. **DO NOT** over-tighten. Use oil hose (#37) to attach to the pump assembly (#39) and gauge connector (#34). Use oil hose (#25) to attach to the ram assembly (#17) and elbow (#27). Ensure o-rings are used to seal the system.



4.8. AIR SUPPLY (FIG.2)

Connect a compressed air supply hose (fig.2) to the foot pedal via a quick coupler. The recommended working air supply pressure is 108-123psi.

5. INSTALLATION

- ❑ **WARNING!** Always position the press against a wall. If the press is situated in the open workshop, it is essential that a guard be placed at the rear of the unit. This will prevent injury to bystanders in the event of the workpiece ejecting suddenly.
- 5.1. **SPACE NECESSARY FOR USE**

Sufficient space is necessary around the equipment to ensure safe and efficient operation, including room for loading and unloading materials, access to controls, and safe movement of personnel. Inadequate space can lead to operational delays, safety hazards, and difficulty in maintenance or adjustments.
- 5.2. **SECURE PRESS TO THE FLOOR**
 - ✖ **DO NOT** attempt to move assembled press manually. When moving the press follow the instructions as detailed in Section 1. Move the press to the mounting location, and spot mark through fixing holes in base section (#10) onto the floor. Check for any hidden wiring or cables - if needed change the location for the holes. Temporarily move the press to the side. Use a masonry drill bit to drill the four holes about 3" to 4" (75 to 100mm) deep into the concrete or wood, as necessary. Clean out the drilled holes. Position the press and align the holes in the base section with the holes in the floor. Use four concrete anchor bolts or lag bolts for wooden floors, (not included), to secure to the floor.
- ❑ **WARNING!** To prevent serious injury **DO NOT** use damaged equipment. If abnormal noise or vibration occurs have the problem corrected.
- 5.3. **BEFORE FIRST USE**

Before operating the press, purge the hydraulic system to eliminate air that may have built up during transit. Open the release valve and pump the handle several times, and then close the release valve. Should the system malfunction at any time, repeating this process may resolve the problem. Always check that the press is operating normally before use. Ensure the ram reaches full decent and returns to its normal position. **DO NOT** use a faulty unit. Contact an authorised service centre for repair.

 - ▲ **DANGER!** Models are purpose designed to withstand greater loads than the hydraulic units can develop. For safety reasons, always ensure the workpiece and press tools are secured on the table and will not flex or suddenly "give way" causing danger to operator or the component. Ensure you have read and understood section 1 Safety Instructions.

6. OPERATION

- 6.1. **PREPARATION**

Connect the air supply to the foot pedal. Ensure the release valve on the hydraulic unit is fully closed. Position the bed frame at the required height by inserting the support pins into the appropriate holes in the frame. Position the v-block plates or press tools to be used onto the bed frame and align beneath the ram. Carefully place the workpiece onto the bed frame or v-blocks and align beneath the ram as required. **NOTE:** Care must be taken to ensure a V-block does not fall from the press bed frame. If necessary hold the configuration in position with clamps (not supplied).
- ❑ **WARNING! DO NOT** apply off centre loads.
- 6.2. **OPERATING THE PRESS**

Use either the handle or foot pedal to lower the ram to the workpiece. Ensure hands and fingers are away from the ram as it slowly descends onto the workpiece. Monitor the pressure gauge during operation to ensure that the rated capacity of the press is not exceeded. When the operation is complete turn the release valve anti-clockwise to release the pressure. The piston and the ram head will retract automatically. Disconnect the air supply. **NOTE:** Always keep the piston retracted after use to avoid corrosion.
- 6.3. **EMERGENCY**

In the case of an emergency involving the press, stop all operations and ensure the area is clear to prevent further risk. Release the pedal and open the release valve if safe to do so. Where applicable, notify your supervisor and follow your workplace's emergency procedures. If there are any injuries or serious hazards, contact emergency services without delay. Clearly tag the equipment as "Out of Order" and prevent further use until it has been inspected, repaired, and confirmed safe for operation.

7. MAINTENANCE

- IMPORTANT:** maintenance is to be performed when necessary to maintain correct and safe performance. Before conducting any maintenance work, disconnect from air supply. All maintenance must be performed by an authorised service centre. **DO NOT** use a faulty unit. Contact an authorised service centre for repair.
- 7.1. **BEFORE EACH USE**

Before each use check for broken, cracked, bent, or loose parts, or any visible damage to welds, ram, pump, saddle, lifting arm, frame, oil/air hoses and all parts including nuts, bolts, pins and other fasteners. If any suspect item is found remove press from service and take necessary action to remedy the problem. **DO NOT** use the press if believed to have been subjected to abnormal load or shock. Inspect and take appropriate action. Always check that the press is operating normally before use or after an intervention. Ensure the ram reaches full decent and returns to its normal position.
 - 7.2. **REFILLING THE HYDRAULIC SYSTEM**

Should you need to replace the oil ensure the piston is fully retracted. An excess of oil will render the press inoperative. Use only appropriate Sealey hydraulic jack oil. **DO NOT** use brake fluid. Contact your local Sealey stockist for details. Purge the system to remove any air. Use genuine parts only. **DO NOT** modify the unit. The use of non-genuine parts may be dangerous and will invalidate the warranty. Ensure the unit operates correctly and safely after refilling the hydraulic system.
 - 7.3. **CLEANING / MAINTENANCE**

Keep the press clean and lubricate all moving parts with oil on a monthly basis. Periodically check the unit for signs of corrosion. Clean exposed areas with a clean oiled cloth. After a year of extensive use, the hydraulic oil should be replaced in order to extend the life of your press (1200ml to top up). Make sure that no dirt is allowed to enter the hydraulic system oil. Dispose of oil according to local authority regulations. Check your model parts information for spares.
 - 7.4. **IN THE EVENT OF AN OIL SPILL**

Refer to MSDS. Prevent spilled oil from spreading and, in particular, prevent it from getting into drains and waterways. Use absorbing material such as earth, sand or commercial products.
 - 7.5. **STORAGE / HANDLING**

Store/install the press in a safe, dry, childproof area, ideally next to a wall/suitable barrier. Keep the ram in the retracted position to minimise corrosion. If the press is to be transported, use suitable slings around the top crossbeam, or lift direct with a forklift with the forks located under the top crossbeam. **DO NOT** use a pallet truck. Please note that the press is top heavy and care must be taken to avoid tipping. Handle the item with care, using appropriate assistance if required.
- IMPORTANT: NO RESPONSIBILITY IS ACCEPTED FOR INCORRECT USE OF THE MACHINE.**

Hydraulic products are only repaired by local service agents. We have service/repair agents in all parts of the UK.

DO NOT RETURN PRODUCT TO US. Please telephone us on 01284 757500 to obtain the address and phone number of your local agent. If the product is under guarantee please contact your stockist.

7.6. DE-COMMISSIONING PRODUCT

Should the product become completely unserviceable and require disposal, draw off the oil into an approved container and dispose of the product and the oil according to local regulations.

8. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
Unit fails to press.	Overloaded.	Be sure to use a press with adequate capacity for the task at hand.
	Oil level low.	Top up oil level.
	Release valve not correctly closed.	Check and close release valve.
	Air in system.	Open the release valve, purge system and close valve as described in 'installation'.
Ram does not extend fully.	Oil level too high/low.	Fill or remove excess oil.
	Worn seals.	Contact authorised service centre.
	Air in system.	Open the release valve, purge system and close valve as described in 'installation'.
	Release valve not closed.	Check and close release valve and re-try.
Ram performs poorly.	Pump packing or valves malfunctioning.	Replace packing and/or clean valves.
	Oil is dirty.	Replace oil.
	Air in system.	Open the release valve, purge system and close valve as described in 'installation'.
	Worn seals.	Contact authorised service centre.
Ram will not retract completely.	Unit requires lubrication.	Oil all external moving parts.
	Piston rod bent or damaged.	Replace rod or contact local service agent.
	Frame distorted due to overloading/poor positioning.	Replace damaged parts or contact service agent.
	Air in system.	Open the release valve, purge system and close valve as described in 'installation'.
	Release valve partially open.	Check and close release valve.

If the above does not solve the problem contact your local Service Agent by checking www.sealey.co.uk.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



REGISTER YOUR PURCHASE HERE

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on technical@sealey.co.uk or 01284 757505.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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