



INSTRUCTIONS FOR : AIR/HYDRAULIC PRESS YANKEE 20TONNE FLOOR TYPE MODEL No: **YK20FAH.V2**

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 AND CAUTIONS. USE THIS 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. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

SAFETY OF PERSONNEL

- WARNING!** Wear ANSI approved impact safety goggles or full-face impact safety shield and heavy-duty work gloves when operating the press.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, other loose jewellery and contain long hair.
- ✓ Keep hands and body clear of the work table when operating the press.
- ✓ Maintain correct balance and footing. **DO NOT** over reach. Ensure the floor is not slippery and wear non-slip shoes.
- x **DO NOT** climb upon the press.
- x **DO NOT** allow untrained persons to operate the press.
- x **DO NOT** operate the press when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✓ Keep children and unauthorised persons away from the working area.

ENVIRONMENTAL SAFETY

- ✓ Locate the press in a suitable work area, on a surface that is stable, level, dry, not slippery and capable of sustaining the load.
- ✓ Keep area clean, tidy, free from unrelated materials and ensure there is adequate lighting.
- x **DO NOT** get the press wet or use in damp or wet locations or areas where there is condensation.

OPERATIONAL SAFETY

- ✓ Familiarise yourself with the applications, limitations and hazards of the press.
- ✓ Check to ensure that all applicable bolts and nuts are firmly tightened.
- x **DO NOT** use the press for a task it is not designed to perform.
- x **DO NOT** use press if bent, broken, cracked, leaking or otherwise damaged, or if press has been subjected to a shock load.
- x **DO NOT** operate the press if any parts are missing as this may cause failure and/or possible personal injury.
- x **DO NOT** adjust or tamper with the safety valve, or make any modifications to the press.
- x **DO NOT** stand directly in front of loaded press and never leave loaded press unattended.
- x **DO NOT** exceed the rated capacity of the press. Avoid applying excessive force, use the pressure gauge to determine the applied load.
- x **DO NOT** apply off-centre loads. Ensure that workpiece is centrally loaded and correctly secured before operating the press.
- x **DO NOT** allow the workpiece or the arbor plates to fall from the press table.
- x **DO NOT** use the press to compress a spring or any other item that could disengage and cause a potential hazard.

MAINTENANCE FACTORS

- ✓ When not in use, release pressure from the pump and clean the press. Stand or store the arbors in a safe, childproof location.
- ✓ 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.
- WARNING: Use SEALEY HYDRAULIC JACK OIL only. DO NOT use brake fluid, or any other fluid as this may cause serious damage to the press and will invalidate the warranty!**
- ▲ **DANGER!** This model is purpose designed to withstand greater loads than the hydraulic unit 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 workpiece.

2. INTRODUCTION & SPECIFICATION

Steel frame construction with integrally mounted air motor powering hydraulic pump unit. Sliding hydraulic ram assembly giving 400mm of lateral travel for off-centre pressing applications. Frame head fitted with ram pressure gauge. Supplied with flat pressing plate/V-blocks. This heavy-duty hydraulic press is ideal for a variety of workshop applications and is particularly suitable for agricultural and industrial use. Tasks such as straightening, bending, folding, punching, removing bolts and bearings etc. are some of the tasks that this press may be used for.

SPECIFICATION:

Capacity:	20tonne	Work table depth:	205mm
Ram stroke:	190mm	Overall height:	1810mm
Max height - ram to table:	1040mm	Gauge included:	Yes
Min height - ram to table:	75mm	Weight:	92kg
Lateral ram travel:	400mm	Air Consumption:	4cfm
Table aperture:	105mm	Working Pressure:	120-200psi
Work table width:	550mm		

3. ASSEMBLY

- 3.1. Unpack the product and check the contents. Should there be any damaged or missing parts, contact your supplier immediately. Take care to ensure safety when removing main frame from its packing, as the unit is very heavy.
- 3.2. Use the exploded drawing as your guide to assemble the press. Lay all parts and assemblies out in front of you before beginning. The following procedure is recommended:
- 3.3. Attach one base section (21) to left frame post (20) and lower cross member (26) using bolts (25), washers (22), lock washers (23) and nuts (24). Attach two diagonal supports (60) between the post and base section using bolts (25), washers (22), lock washers (23) and nuts (24).
- 3.4. Attach the other right base section (21) and the right frame post (20) to the lower cross member (26). Attach two diagonal supports (60) between the right post and base section using bolts (25), washers (22), lock washers (23) and nuts (24).

- 3.5. Put the press frame in an upright position, attach one upper crossbeam (10) to left and right posts (20) using bolts (9), washers (13), lock washers (12) and nuts (11).
- 3.6. Hook the under plate (7) onto the first cross beam and slide the other cross beam sideways through the other hooks until it is in position in front of the posts. Attach to the posts with bolts (9), washers (13), lock washers (12) and nuts (11).
- 3.7. Screw the upper round nut (6) onto the ram (3), insert the ram into the hole in the under plate (7), then screw the lower round nut (8) onto the ram and attach the serrated saddle (5) to the ram.
- 3.8. Place the two halves of the press bed frame (18) back to back. Move them apart until the space between them is the same as the length of the four spacers (28). Align each spacer with the holes in the bed halves and insert a bolt (27) through both frames and the spacer. Secure the four bolts by using the washers (14), lock washers (15) and nuts (16).
- 3.9. Insert bed frame pins (19) into the holes in the posts at the same level. Hold the assembled bed frame diagonally between the posts. Turn it horizontal so that the ends are in contact with the posts and lower it onto the pins.
- 3.10. Attach the pump and air motor assemblies to the right post using bolts (29) and washers (14). Ensure that the air motor is below the pump. Insert the pumping handle (48) into the handle bracket (38).
- 3.11. Connect the hydraulic hose fitting (57) to the connection nut (58) and assemble the pressure gauge (1) to the pressure gauge connection nut (59) which is on the top of the ram (3).
- 3.12. Tighten all nuts, bolts and screws.

4. INSTALLATION & OPERATION

4.1. INSTALLATION.

- 4.1.1. Securely attach the press to a flat, firm, level surface, taking into account any clearance required for workpieces.
- 4.1.2. Before first use of this product, pour a teaspoon of good quality, air tool lubricant into the air supply inlet of the lift control valve, connect to air supply and operate for 3 seconds to evenly distribute lubricant.
- 4.1.3. Purge away air from the hydraulic system.

Manual operation: open the release valve (41) by turning it counterclockwise. Pump several full strokes to eliminate any air in the system.

Air operating system: open the release valve (41) by turning it counterclockwise. Connect the air inlet fitting (39) into the air supply hose lock fitting, then turn on the air valve (40) letting the pump work for several times to eliminate any air in the system.

- ▲ **DANGER!** This model is 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 workpiece. Also ensure that you have read and understood Section 1 safety instructions.

4.2. OPERATION.

- 4.2.1. Place the arbor plate (17) on press bed frame/table (18), then place the workpiece onto the arbor plate and align beneath the ram as required. Note: care must be taken to ensure an arbor does not fall from the press work table. If necessary hold the configuration in position with clamps.
- 4.2.2. Close the release valve (41) by turning it clockwise until it is firmly closed.
- 4.2.3. Connect the air inlet fitting into the workshop air supply hose lock fitting, turn on the air valve (40) to let the pump work until serrated saddle (5) nears workpiece, then turn off the air valve. When air source is unavailable, pump the handle (48) until serrated saddle nears workpiece.
- 4.2.4. Align workpiece and ram to ensure centre-loading. Before applying any pressure to the workpiece, recheck the alignment with the ram and ensure that the workpiece and press tools are supported in such a way that they cannot flex.
- 4.2.5. Turn on the air valve or pump the handle to apply load onto workpiece.
- 4.2.6. When work is done, turn off the air valve (or stop pumping handle), slowly and carefully remove load from workpiece by turning the release valve counterclockwise in small increments.
- 4.2.7. Once ram has fully retracted, remove workpiece from the press bed frame.
- 4.2.8. Disconnect the air inlet fitting from the air source.

Note: Always keep the piston retracted after use to avoid ram corrosion.

5. MAINTENANCE

Note: Maintenance and repair must only be carried out by a qualified person. Contact your Sealey dealer for details.

- 5.1. Periodically lubricate all joints and moving parts.
- 5.2. Always keep the press clean, dry, and protected from harsh conditions.
- 5.3. To check hydraulic oil level, remove the oil filler nut (55) from the pump. If it needs filling, use only Sealey hydraulic jack oil. (**DO NOT use brake fluid.** Contact your local Sealey dealer for details). Replace oil filler nut and purge system of air (see 4.1.2.).
- 5.4. When replacing the hydraulic oil, ensure the piston is fully retracted.
- 5.5. If press efficiency begins to drop, purge the system to eliminate any air from the hydraulic system (see 4.1.2.).
- 5.6. When not in use, clean the press and ensure that the ram and piston are fully retracted.

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 product is under guarantee please contact your dealer.

De-commissioning Product.

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

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.

IMPORTANT: No liability is accepted for incorrect use of this product.

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

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



Sole UK Distributor, Sealey Group,
Kempson Way, Suffolk Business Park,
Bury St. Edmunds, Suffolk,
IP32 7AR



01284 757500



www.sealey.co.uk



01284 703534



sales@sealey.co.uk