



HYDRAULIC PRESS 20 TONNE FLOOR TYPE

MODEL NO: **YK20F.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 instruction manual



Wear protective gloves



Wear face mask



Wear protective clothing



Wear safety footwear



Warning: Crushing of hands

1. SAFETY

- ✓ Familiarise yourself with the applications, limitations and hazards of 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 and free from unrelated materials and ensure there is adequate lighting.
- ✓ Ensure the workpiece is correctly secured before operating the press.
- ✓ Ensure that all fittings are tight before each use.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, other loose jewellery and contain long hair.
- ✓ Keep hands and body clear of the table when operating the press.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ 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 arbor plates in a safe location.
- ✗ **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** exceed the rated capacity of the press.
- ✗ **DO NOT** apply off-centre loads.
- ✗ **DO NOT** allow the workpiece or the arbor plates to fall from the 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 the press 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 a loaded press and never leave a loaded press unattended.
- ✗ **DO NOT** allow untrained persons to operate the press.
- ☐ **WARNING!** Always wear approved eye or face protection when operating the press. A full range of personal safety equipment is available from your Sealey stockist.
- ☐ **WARNING: 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 work piece 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

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. The hydraulic system is fitted with a pressure gauge and the press is supplied with work table arbors. A detachable pump and ram allows hydraulics to be used for other purposes when press is not in use.

3. SPECIFICATION

Model.....YK20F.V3
 Capacity20tonne
 Ram stroke185mm
 Ram diameter.....48mm

Lateral ram travel	403mm
Max height - ram to table.....	1018mm
Min height - ram to table.....	58mm
Work table aperture.....	100mm
Work table depth	206mm
Work table width.....	630mm
Overall height	1796mm
Weight	95kg
Gauge included	Yes

4. ASSEMBLY

REFER TO PARTS LIST

- 4.1. 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.
- 4.2. Use the parts diagram as your guide to assembly. Lay all parts and assemblies out before beginning assembly. The following procedure is recommended.
- 4.3. Attach one base section (21) to the left post (20) and lower support (26), using bolts (25), washers (22), spring washers (23) and nuts (24) to secure, then repeat with the other base section (21), attaching it to the right post (20) and the lower support (26).
- 4.4. Place the press frame in an upright position, attach one upper cross beam (10) to left and right posts (20) using bolts (9), washers (13), lock washers (12) and nuts (11).
- 4.5. Place the other upper cross beam (10) in position and insert the under plate (7) to the two upper cross beams at the same time, then secure this cross beam to the posts using bolts (9), washers (13), lock washers (12) and nuts (11).
- 4.6. Screw the upper round nut (6) onto the ram (3), insert the ram into the hole in the under plate (7), then screw the nut (8) onto the ram and attach the serrated saddle (5) to the ram.
- 4.7. Join the two press bed frames (18) together by inserting the four bolts (27) through the bushings (28) and the holes in the bed frames, then secure the four bolts with the washers (14), lock washers (15) and nuts (16).
- 4.8. Insert the bed frame pins (19) into the holes in the posts, then insert the joined press bed frames (18) into press frame and lower onto the bed frame pins (19).
- 4.9. Attach the support plate (31) to the right post, using bolts (25), washers (22), spring washers (23) and nuts (24), then secure the pump assemblies using the screws (29) and washers (30), insert the handle in the handle bracket.
- 4.10. Connect the hydraulic hose fitting (36) to the connection nut (37) and fit the pressure gauge (1) to the pressure gauge connection nut (38) which is on the top of ram (3).
- 4.11. Tighten all fixings. (nuts, screws and bolts).

5. INSTALLATION

5.1. INSTALLATION.

- 5.1.1. Securely attach the press to a flat, firm, level surface taking into account clearance for working pieces.
- 5.1.2. Before operating the press, purge the hydraulic system in order to eliminate any air that may have built up during transit. Open the release valve and pump the handle several times. Should the system malfunction at any time, repeating this process may resolve the problem.

6. OPERATION

- ▲ **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 component.
- 6.1. Position the working table at the required operating height by inserting the support pins into the appropriate holes in the main frame.
 - 6.2. Place the arbor plate (17) on the press bed frame (18), then place 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.
 - 6.3. Close the release valve by turning it clockwise until it is firmly closed.
 - 6.4. Pump the handle slowly until the ram is in close proximity to, or just touching the workpiece. 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.
 - 6.5. Pump the handle to apply load to workpiece.
 - 6.6. When work is complete, stop pumping the handle. Slowly and carefully free the load from the workpiece by turning the release valve anti-clockwise in small increments.
 - 6.7. Once the ram has fully retracted, remove the workpiece from the bed frame.
NOTE: Always keep the piston retracted after use to avoid ram corrosion.

7. MAINTENANCE

NOTE: Maintenance and repair must only be carried out by qualified person. Contact your Sealey stockist for details.

- 7.1. When the press is not in use, the hydraulic unit ram must be fully retracted to minimise corrosion. Remove the handle to inactivate the press.
- 7.2. Lubricate all moving parts at regular intervals.
- 7.3. Always keep the press clean, dry, and protected from harsh conditions.
- 7.4. To check hydraulic oil level, remove the oil filler nut (34) from the pump. If it needs filling, use only Sealey hydraulic jack oil, contact your local Sealey stockist for details. **DO NOT** use brake fluid. Replace oil filler nut and purge system of air (see 5.1.2.).
- 7.5. Should you need to replace the oil, ensure the hydraulic unit ram is fully retracted. An excess of oil will render the press inoperative.
- 7.6. Use only appropriate Sealey hydraulic jack oil (Sealey Part Number: HJO500MLS/HJO5LS). **DO NOT** use brake fluid.
- 7.7. If press efficiency begins to drop, purge the system to eliminate any air from the hydraulic system (see 5.1.2.).
- 7.8. Check your model parts information for spares.



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.

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 is required for any claim.

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



01284 757500



01284 703534



sales@sealey.co.uk



www.sealey.co.uk