



# 20 TONNE PROFESSIONAL FLOOR TYPE HYDRAULIC PRESS

MODEL NO: **YK20F.V5**

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

### 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 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, 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.
- ✗ **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.
- ☐ **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.
- ✗ **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.
- ▲ **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.

## 2. INTRODUCTION

Made from a high quality steel with a powder coated paint finish to help corrosion resistance. Supplied in KD form. Detachable pump and ram allowing hydraulics to be used for other purposes when press is not in use. Supplied with gauge.

### 3. SPECIFICATION

Model:	YK20F.V5
Capacity:	20 Tonne
Floor mounting:	Yes
Gauge included:	Yes
Lateral Ram Travel:	403mm
Maximum Height Ram to Table:	1018mm
Minimum Height Ram to Table:	58mm
Optimal Accessories:	YKPP8 - Press Pin Set
Overall Height:	1796mm
Overall Width:	975mm
Ram Diameter	Ø48mm
Ram Stroke:	185mm
Table Aperture:	100mm
Type:	Hydraulic
Working table depth:	206mm
Working table width:	630mm

### 4. ASSEMBLY

- ✓ 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 heavy.
- ✓ Refer to attached parts list.
- **WARNING!** Seek assistance on assembly of heavy parts.
- 4.1. ATTACH BASE SECTION.**
  - 4.1.1. In the upright position, on a flat level floor, attach base section (#21) to upright (#20) and lower support (#26), securing with hex head set screw M12 x 35 (#25), flat washer M12 (#22), spring washer M12 (#23) and nut M12 (#24) loosely. Repeat on other side.
- 4.2. ATTACH SUPPORT BRACE**
  - 4.2.1. Position support braces (#34) and secure with hex head screw M10 x 35 (#33), flat washer M10 (#14), spring washer M10 (#15) and nut M10 (#16) loosely. Repeat on other side.
- 4.3. ATTACH UPPER BEAM**
  - **WARNING!** Seek assistance to complete this task.
  - 4.3.1. Prior to attachment of upper beams (#10), place upper beams apart, and slide fit plate (#7) onto lower edges of upper beams.
  - 4.3.2. Taking care, position at the same time, upper beams (#10) and plate (#7) to uprights (#20) and secure with hex head set screw M16 x 35 (#9), flat washer M16 (#13), spring washer M16 (#12) and nut M16 (#11) loosely.
  - 4.3.3. Level the frame using a good quality spirit level. Fully tighten all fixings.
- 4.4. ATTACH THE HYDRAULIC RAM**
  - 4.4.1. On the hydraulic ram (#3) unscrew and remove upper nut (#8).
  - 4.4.2. Centrally locate hydraulic ram (#3) through hole in plate (#7) and lock into place with upper nut (#8).
- 4.5. PRESSURE GAUGE**
  - 4.5.1. Remove the dust cap hex bolt from the gauge connection nut positioned at the top of the ram assembly (#3). **DO NOT** discard.
  - 4.5.2. Screw the pressure gauge (#1) and nylon ring (#2) in until tight.
  - × **DO NOT** over-tighten.
- 4.6. ATTACH BED FRAME**
  - 4.6.1. Pass the table support pins (#19) through the holes on the press frame at the desired height.
  - 4.6.2. Place bed frames (#18) on a level surface and internally position bushes (#28) and secure with hex head bolt M10 x 130 (#27), flat washer M10 (#14), spring washer (#15) and nut (#16).
  - 4.6.3. Taking firm hold of the bed frame assembly, tip it into a diagonal position so that it can be introduced between the mainframe uprights, and carefully lower it back to a horizontal position to rest on the table support pins (#19).
  - **WARNING!** Take care not to allow the bed frame assembly to drop onto the table support pins and ensure your hands and fingers are clear of the bed frame assembly when lowering.
  - 4.6.4. Place the V-Blocks (#17), in the required position onto the bed frame assembly.
- 4.7. ATTACH PUMP ASSEMBLY**
  - 4.7.1. Attach the support plate (#31) to the right side upright (#20), using hex head set screw M12 x 35 (#35), flat washer (#22), spring washer (#23) and nut (#24).
  - 4.7.2. Attach pump assembly (#32) to support plate (#31) and secure with hex head set screw M8 x 15 (#29) and flat washer M8 (#30).
  - 4.7.3. Remove the plastic safety bung from the end of the pump hose (#32) and connect the hose to the hydraulic ram assembly (#3) inlet valve.

### 5. INSTALLATION

- 5.1. SECURE PRESS TO THE FLOOR**
  - **WARNING!** Always use another person when moving the press.
  - 5.1.1. Move the press to the mounting location and drill four mounting holes in the feet of the press.
  - 5.1.2. Make a template to mark the spots where the four holes will be drilled in the floor.
  - 5.1.3. Check for any hidden wiring or cables, if needed change the location for the holes.
  - 5.1.4. Temporarily move the press to the side.
  - 5.1.5. Use a masonry drill bit to drill the four holes about 3" to 4" deep into the concrete or wood, as necessary.
  - 5.1.6. Clean out the drilled holes.

- 5.1.7. Position the press and align the holes in the feet with the holes in the floor.
- 5.1.8. Use four concrete anchor bolts or lag bolts for wooden floors (not included) to secure to the floor.
- ✓ **NOTE:** This press needs to be mounted to the floor of either concrete or wood, capable of supporting the weight of the press and any workpiece.
- **WARNING!** To prevent serious injury **DO NOT** use damaged equipment. If abnormal noise or vibration occurs have the problem corrected before further use.
- 5.2. BEFORE FIRST USE**
- 5.2.1. 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 and close the release valve. Should the system malfunction at any time, repeating this process may resolve the problem.
- ▲ **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. Also ensure you have read and understood section 1 Safety Instructions.
- 5.3. The transit valve on the bottom of the pump (opposite end to the handle) needs to be open during operation.

## 6. OPERATION

- 6.1. Check that the hydraulic unit is fully closed ready for operating.
- 6.2. Position the table at the required operating height by inserting the pins into the appropriate holes in the frame.
- 6.3. Position the V-block plates or press tools to be used onto the table and align beneath the ram. Place workpiece onto the table 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 table. If necessary hold the configuration in position with clamps (not supplied).
- 6.4. Operate the pump slowly until the ram is close or just touching the workpiece. Before applying real 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 to breaking point. **DO NOT** exceed the stroke indicated on the label or the red mark on the piston and **DO NOT** apply off centre loads.
- 6.5. When work is completed release the pressure using the knob with four lugs and the piston and the ram head will retract automatically. **Note:** Always keep the piston retracted after use to avoid corrosion.

## 7. MAINTENANCE

- ✓ **Note:** Maintenance and repair must be carried out by qualified person. Contact your Sealey stockist for details.
- 7.1. Check all fittings are tight before each use.
- 7.2. Lubricate all moving parts at regular intervals.
- 7.3. Always keep the press clean, dry, and protect from harsh conditions.
- 7.4. 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.
- 7.5. Check your model parts information for spares. Repair kits are available.
- ▲ **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.
- ✓ **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.



### 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. 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](mailto: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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