



10 TONNE BENCH 'C' TYPE HYDRAULIC PRESS

MODEL NO: YC10B.V4

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 eye protection



Wear protective gloves



Wear safety footwear



Wear protective clothing



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. Ensure a safe working space of at least a metre exists around the installed unit.
- ▲ **DANGER!** The press is heavy. If it requires moving after assembly or for relocation, seek assistance from another person.

2. INTRODUCTION

High quality industrial press ideal for pressing, bending and extruding. Detachable pump and ram allow hydraulics to be used for other purposes when press is not in use. The C-frame design provides easy-access to work area from three sides, as well as permitting loading and unloading of wide and irregular workpieces. Supplied with flat pressing plates and extension tubes.

3. SPECIFICATION

Model No:..... YC10B.V4
 Bench or Floor Mounting:..... Bench
 Capacity:..... 10 Tonne
 Gauge Included:..... No
 Maximum Height - Ram to Table:..... 450mm
 Minimum Height - Ram to Table:..... 158mm
 Overall Height:..... 966mm

Ram Diameter:..... Ø40mm
 Ram Stroke:..... 150mm
 Table Aperture:..... 100mm
 Type:..... Hydraulic
 Working Table Depth:..... 230mm
 Working Table Width:..... 406mm
 Hydraulic Fluid Volume:..... 0.5L

4. ASSEMBLY

Unpack the product and check contents. Should there be any damaged or missing parts contact your supplier immediately. Take care when removing components from packing as these units are heavy.

4.1. REFER TO ATTACHED PARTS LIST

- 4.1.1. Seek assistance of another person on assembly of heavy parts.
- 4.1.2. Assemble press, if possible, in close proximity to where the press will be located.

4.2. PRESS ASSEMBLY

NOTE: The press is supplied part assembled, with the ram assembly (#1), lower ring nut (#3), extension tube (long) (#6) and saddle (#4) attached to frame (#2).

4.3. ATTACHING THE HYDRAULIC UNIT

- 4.3.1. Remove the plastic safety bung from the inlet valve on the ram assembly (#1).
- 4.3.2. Remove the plastic safety bung from the end of the pump hose and connect the oil hose (#8) to the inlet valve on the ram assembly (#1).
- 4.3.3. Place the hydraulic pump (#10) in a suitable location where it can be operated safely, and insert pump handle (#11) into the handle sleeve on the hydraulic unit (#10).
- 4.3.4. Place the arbor plates (#9) onto the frame table (#2).

4.4. SETTING THE CLEAR OPERATING HEIGHT

NOTE: Prior to operating the press determine which clear opening height is most suitable for your application.

- 4.4.1. For maximum clear operating height, thread saddle (#4) onto threaded end of ram assembly (#1).
- 4.4.2. For intermediate clear operating height, thread saddle (#4) into extension rod (short) (#5) and then thread other end of extension rod (short) (#5) onto threaded end of ram assembly (#1).
- 4.4.3. For minimum clear operating height, thread saddle (#4) into extension rod (long) (#6) and then thread other end of extension rod (long) (#6) onto threaded end of ram assembly (#1).

4.5. HANDLING THE PRESS

- ▲ **DANGER!** The press is heavy. If it requires moving during or after assembly or relocation, seek assistance from another person.

5. INSTALLATION

5.1. SECURE THE PRESS TO A BENCH

- **WARNING!** Always use the assistance of another person when moving the press.

- 5.1.1. Move the press to the mounting location and spot mark through fixing holes in the frame (#2) onto the bench.
- 5.1.2. Check for any hidden wiring or cables, if needed change the location for the holes.
- 5.1.3. Temporarily move the press to the side.
- 5.1.4. Use a masonry drill bit to drill the four holes about 3" to 4" deep into the concrete or wood, as necessary.
- 5.1.5. Clean out the drilled holes.
- 5.1.6. Position the press and align the holes in the base section with the holes in the bench.
- 5.1.7. Use four concrete anchor bolts or lag bolts for wood, (not included), to secure to the bench.

NOTE: This press needs to be mounted to a bench 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.

5.2. BEFORE FIRST USE

- 5.2.1. Before operating the press, purge the hydraulic system of the hydraulic unit (#1), in order to eliminate any air that may have accumulated 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!** *This model is purposefully 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 chapter 1 safety instructions.*

6. OPERATION

- 6.1. Check that the hydraulic unit is fully closed ready for operating.
 - 6.1.1. Position the arbor plates (#9) or press tools to be used onto the table and align beneath the ram. Place workpiece onto the table or arbor plates and align beneath the ram as required. **NOTE:** Care must be taken to ensure that the arbor plates do not fall from the press table. If necessary hold the configuration in position with clamps (not supplied).
 - 6.1.2. Operate the pump (#10) slowly until the ram is close to 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.
 - 6.1.3. When work is complete release the pressure by fitting the handle over the release valve and turning anti-clockwise in small increments.
 - 6.1.4. **NOTE:** If a trapping should occur, depress the release valve (#13) on the pump assembly (#10)
 - 6.1.5. Once the hydraulic unit has been fully retracted, remove the workpiece from the arbor plates and the table.
 - NOTE:** Always keep the piston retracted after use to avoid corrosion.
 - NOTE:** Firefighting procedure/equipment should be in accordance with the Materials Safety Data Sheet (on line).
 - NOTE:** Refer to Materials Safety Data Sheet (on line) for hydraulic fluid characteristics.

7. MAINTENANCE

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

7.1. MAINTENANCE SCHEDULE (BEFORE EACH USE)

- 7.1.1. Check for any visible damage on the machine and all parts.
- 7.1.2. Check for hydraulic fluid leaks on and around the machine itself, especially the hoses and couplings.
- 7.1.3. Make sure there is no rust visible on the ram assembly.
- 7.1.4. Make sure the gauge is not damaged or leaking.
- 7.1.5. Check the hydraulic fluid level.
- 7.1.6. Make sure the release valve is working correctly.
- 7.2. When the press is not in use, the unit ram must be fully retracted to minimise corrosion. Remove the handle to inactivate the press.

- 7.3. Lubricate all moving parts at regular intervals.
- 7.4. Storage: Always keep the press clean, dry, and protected from harsh conditions.
- 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. Use only appropriate Sealey hydraulic jack oil (Sealey Part Number: HJO500MLS/HJO5LS). **DO NOT** use brake fluid. Purge the system to remove any air.
- 7.6. Check your model parts information for spares.
- 7.7. **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.



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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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