



# 6 TONNE BENCH TYPE HYDRAULIC PRESS

MODEL NO: YK6ECB.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 a face shield



Wear safety footwear



Wear protective gloves



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 work-piece 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 work-piece taking into account clearance for work pieces.
- ✓ 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 work-piece 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

Robust KD hydraulic press suitable for use by the serious enthusiast and professional alike. Made from high quality steel with a powder coated paint finish, preventing corrosion for years to come. Adjustable table height relocation of two pins allows the table to be set at your optimum working height. Designed to remove and install bushings, bearings, ball joints, universal joints, pulleys and gears. Includes two arbor plates, assisting alignment and strengthening the press point position.

### 3. SPECIFICATION

Model no: .....	YK6ECB.V4
Bench mounting: .....	Yes
Capacity: .....	6 Tonne
Maximum height - ram to table: .....	145.5mm
Minimum height - ram to table: .....	20.5mm
Overall height: .....	800mm
Overall Width: .....	455mm
Ram diameter .....	Ø36mm
Ram stroke: .....	125mm
Screw Extension: .....	125mm
Table aperture: .....	56mm
Type: .....	Hydraulic
Working table width: .....	340mm

### 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.

**Refer to attached parts list.**

Seek assistance of another person on assembly of heavy parts.

Assemble press, if possible, in close proximity to where the press will be located.

#### 4.1. FRAME ASSEMBLY

4.1.1. Place the upright sections (#15) horizontally on a bench.

4.1.2. Attach the base support (#20) to the upright (#15) and the spreader bar (#14) using bolts M10 x 35 (#5) and M10 flat washer (#6) and M10 spring washer (#7) and nut (#8). Leave fixings loose during assembly, tighten when assembled before use.

4.1.3. Repeat for the other base support (#20).

4.1.4. Attach the upper cross beam (#19) using bolts M12 x 110mm (#1) and M12 flat washer (#2) and M12 spring washer (3) and M12 nut (#4) loosely.

4.1.5. Raise the press frame into an upright position with assistance if necessary and place onto a flat level floor, and level the frame using a good quality level. Fully tighten all the bolts.

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

#### 4.2. ATTACHING THE SUPPORT PLATE

4.2.1. Locate the hook pin (#11) into the cross beam base (#18) and secure using the M8 nut (#12).

4.2.2. press springs (#10) to the circular rings on the underside of the cross beam base (#18).

4.2.3. Taking firm hold of the cross beam base (#18) tip it into a diagonal position so it can be introduced between the upright (#15). When level attach the hook pin (#11) to the press springs (#10).

4.2.4. Adjust the length of the hook pins (#11) using the M8 nuts (#12) so that the cross beam base (#18) is parallel to the upper cross beam (#19).

#### 4.3. ATTACHING THE TABLE

4.3.1. Insert the pins (#13) through the holes in the main frame (#15).

4.3.2. Taking firm hold of the table platform (#16) tip it into a diagonal position so it can be introduced between the upright (#15), and carefully lower it back to a horizontal position to rest on the bed frame pins (#13). Secure with B pin (#21)

**WARNING!** Take care not to allow the table to drop onto the table pins and ensure your hands and fingers are kept clear.

4.3.3. Place the arbor plates (#17) onto the table platform (#16).

4.4. Insert handle (#22) into handle sleeve on the hydraulic unit (#9).

### 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. Position the press and drill out four holes in the bench.

5.1.2. Use four bolts, (not included), to secure to the bench.

**NOTE:** This press needs to be mounted to a bench using the appropriate fittings, capable of supporting the weight of the press and any work-piece. Further note that the bench or work surface your fitting it to is also securely fastened to the floor or wall behind it.

**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 (#6), 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 work-piece 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 table at the required operating height by inserting the pins into the appropriate holes in the frame.
- 6.1.2. Position the arbor plates or press tools to be used onto the table and align beneath the ram. Place work-piece 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).
- 6.1.3. Operate the pump slowly until the ram is close to or just touching the work-piece. Before applying real pressure to the work-piece recheck the alignment with the ram and ensure that the work-piece 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.
- 6.1.4. When work is complete release the pressure by fitting the handle over the release valve and turning anti-clockwise in small increments.
- 6.1.5. Once the hydraulic unit has been fully retracted, remove the work-piece from the arbor plates and the table.  
**Note:** Always keep the piston retracted after use to avoid 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. 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.
- 7.5. Check your model parts information for spares.

**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 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](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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