

Bäumr-AG



20 Tonne Hydraulic Press

User Manual

[Revision 1.0 April 2017]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:

	You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.		You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.		You CAN be INJURED if you do not follow instructions or equipment damage may occur.
<p>It is important that you read and understand the instruction manual before use and keep the manual in a safe place for future reference. Safety information presented here is generic in nature – some advice may not be applicable to every piece of equipment.</p> <p>All safety precautions must be observed to reduce the risk of personal injury when operating the equipment.</p> <p>The term "equipment" refers to your product, be it electrical mains, battery or petrol engine powered.</p> <p>IMPORTANT – Handle the equipment safely and carefully.</p> <p>BEFORE USE - If you are not familiar with the safe operation/handling of this equipment, or are in any way unsure of any aspect of suitability or correct use it for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.</p> <p>WARNINGS</p> <ul style="list-style-type: none"> Read all safety warnings and all instructions. Failure to follow warnings and instructions may result in electric shock, fire and/or serious injury. Never run a petrol engine in confined areas. Do not operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. Engine and equipment may create sparks or heat that may ignite vapours, dust etc Keep clear of moving parts. This equipment may be a potential source of electric shock if misused. Do not operate the equipment if it is damaged, malfunctioning or is in an excessively worn state. Do not allow others to use the equipment unless they have read this manual and are adequately trained. When using the equipment, basic safety precautions detailed here must always be followed to reduce the risk of fire, electric shock, personal injury and material damage. When wiring electrically powered equipment, follow all electrical and safety codes. Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting equipment. 	<p>General Work Area Safety</p> <p>Work areas should be clean and well lit. Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.</p> <p>Personal Safety</p> <p>Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.</p> <p>Prevent unintentional starting of the equipment - ensure equipment and power source switches are in the OFF position before connecting or moving the equipment. Do not carry equipment with hands/fingers touching any controls.</p> <p>Remove any tools or other items that are not a part of the equipment from it before starting or switching on.</p> <p>Stay alert and use common sense when operating equipment. Do not overreach. Keep proper footing and balance at all times. Do not use equipment when tired or under the influence of drugs, alcohol or medication. This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.</p> <p>You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. Always wear eye protection. Protective equipment such as respirators, non-skid safety shoes, hard hat, hearing protection etc should be used for appropriate conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.</p> <p>If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.</p> <p>General Equipment Use and Care</p> <p>Do not force the equipment. Use the correct equipment for your application. The correct equipment will perform better and be safer within its design parameters. Do not use the equipment if the ON/OFF switch malfunctions – any equipment that cannot be controlled with the ON/OFF switch is dangerous and must be repaired.</p>	<p>Use the equipment and accessories etc. in accordance with these instructions, taking into account working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.</p> <p>Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorized service centre or technician before use.</p> <p>Always keep the equipment and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment, controls and handles dry and free from dirt, oil and grease.</p> <p>Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place the equipment in places where there are flammable materials, combustible gases or combustible liquids etc.</p> <p>The equipment is not weatherproof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or very humid.</p> <p>Press Use and Care</p> <ul style="list-style-type: none"> CRUSH HAZARD – Use extreme caution when operating the equipment. Keep hands and other body parts clear of the equipment and work pieces during operation. Do NOT exceed the rated capacity of the equipment. Before each use, check the hydraulic jack for correct operation, and for misalignment / binding of moving parts, damage or any condition that may affect the equipment safety or performance. Do NOT use damaged or unsafe equipment. Repair or replace non-serviceable components immediately – use only parts from the manufacturer or recommended by them. Always use the press with the press table level. The equipment must be installed and operated on a flat and level surface that is capable of supporting the weight of the equipment and any loads it generates. It is recommended to secure the equipment to the floor. 			

General Fuel Safety	General Service Information
<p></p> <p>Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.</p> <ul style="list-style-type: none">• Do not spill fuel. If you spill fuel, wipe it from equipment immediately – if fuel gets on your clothing, change them immediately• Do not smoke near fuel.• Always shut off the engine before refuelling.• Do not refuel a hot engine.• Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.• Always refuel in well ventilated areas.• Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.	<ul style="list-style-type: none">• Have the equipment serviced or repaired at authorized service centres by qualified personnel only.• Replacement parts must be original equipment manufacturer (OEM) to help ensure that equipment safety is maintained.• Do not attempt any maintenance or repair work not described in this instruction manual.• After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before making adjustments, changing accessories or performing repair or maintenance.• Do not make adjustments while the equipment is running.• Perform all service related activities under suitable conditions, such as a workshop etc.• Replace any worn, damaged or missing warning labels immediately.• Do not clean equipment with solvents, flammable liquids or harsh abrasives.

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Parts Identification

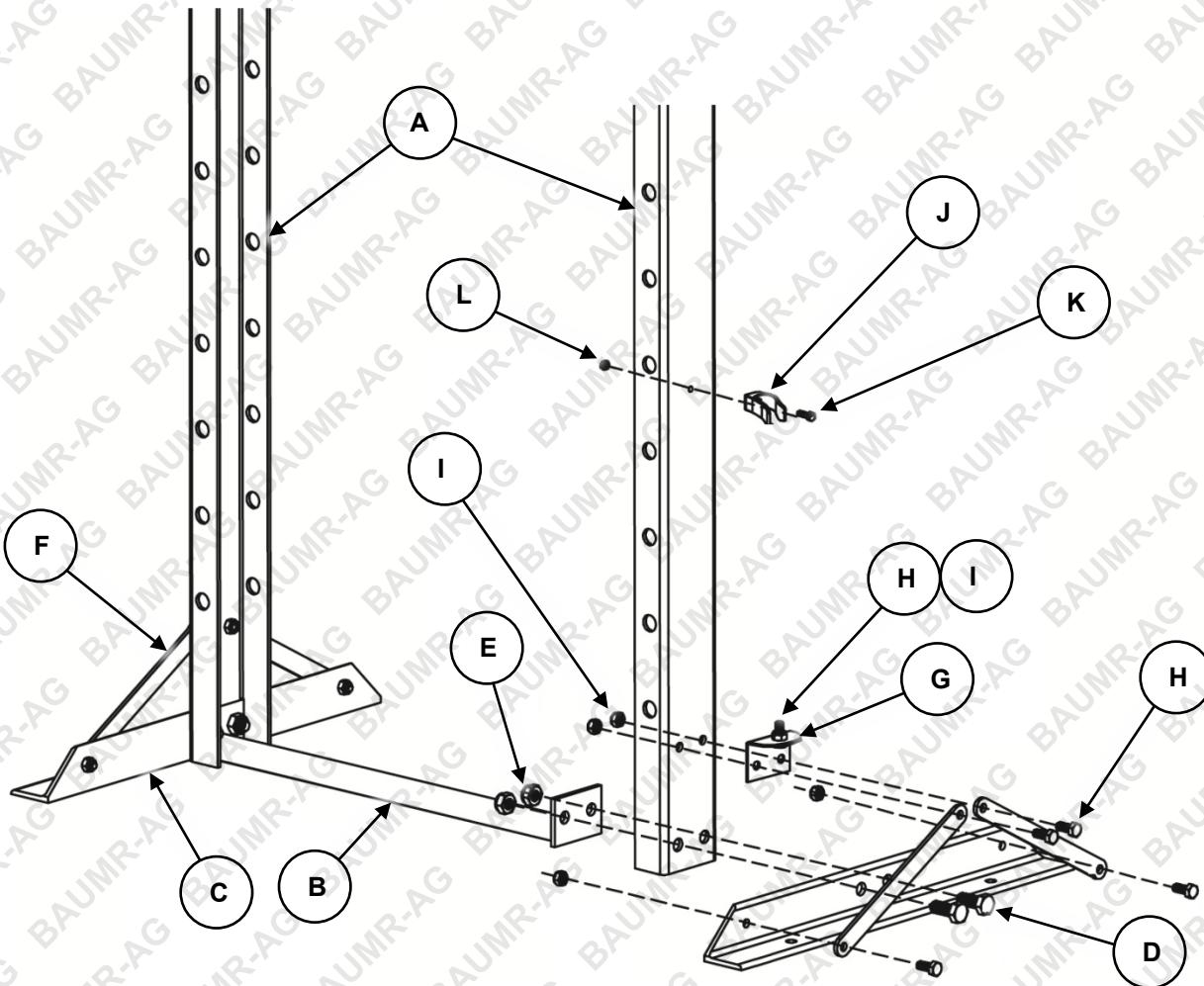
It is strongly recommended that you familiarise yourself with all major components of the machine before using it or performing any maintenance tasks.



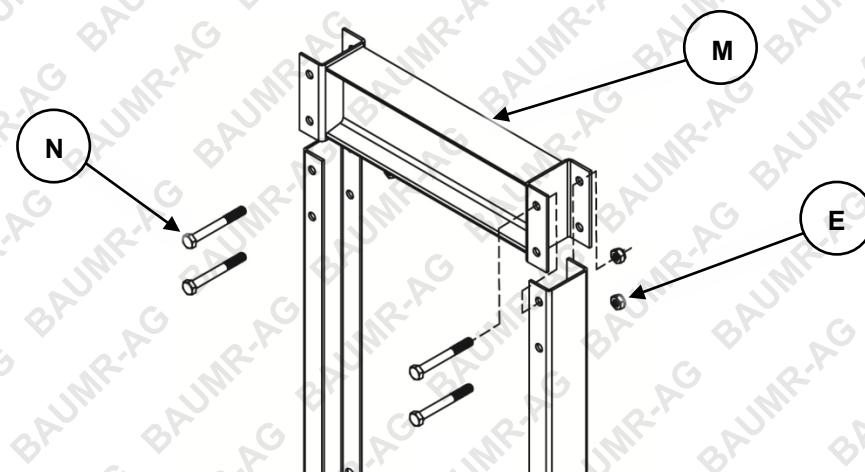
No.	Name	No.	Name
1	Frame Leg (2)	11	Fasteners / Accessories / Tools:
2	Frame Top Beam		Jack Plate Hook (2)
3	Foot (2)		Jack Plate Spring (2)
4	Frame Bottom Brace		Press Table Pin (2)
5	Foot Brace (4)		Press Table Bolt (2)
6	Hydraulic Jack		M8 Wing Nut (2)
7	Jack Plate		M12x30 Bolt (4)
8	Press Table Beam (2)		M12x105 Bolt (4)
9	Work-Piece Support (2)		M8x20 Bolt (8)
10	Handle		M8x20 Cap Screw (2)
			M5x16 Bolt (1)
			M8 Spring Washer (2)
			M10 Nut (12)
			M8 Nut (9)
			M5 Nut (1)
			Handle Clip
			Handle Bracket
			6mm Allen Key

Assembly

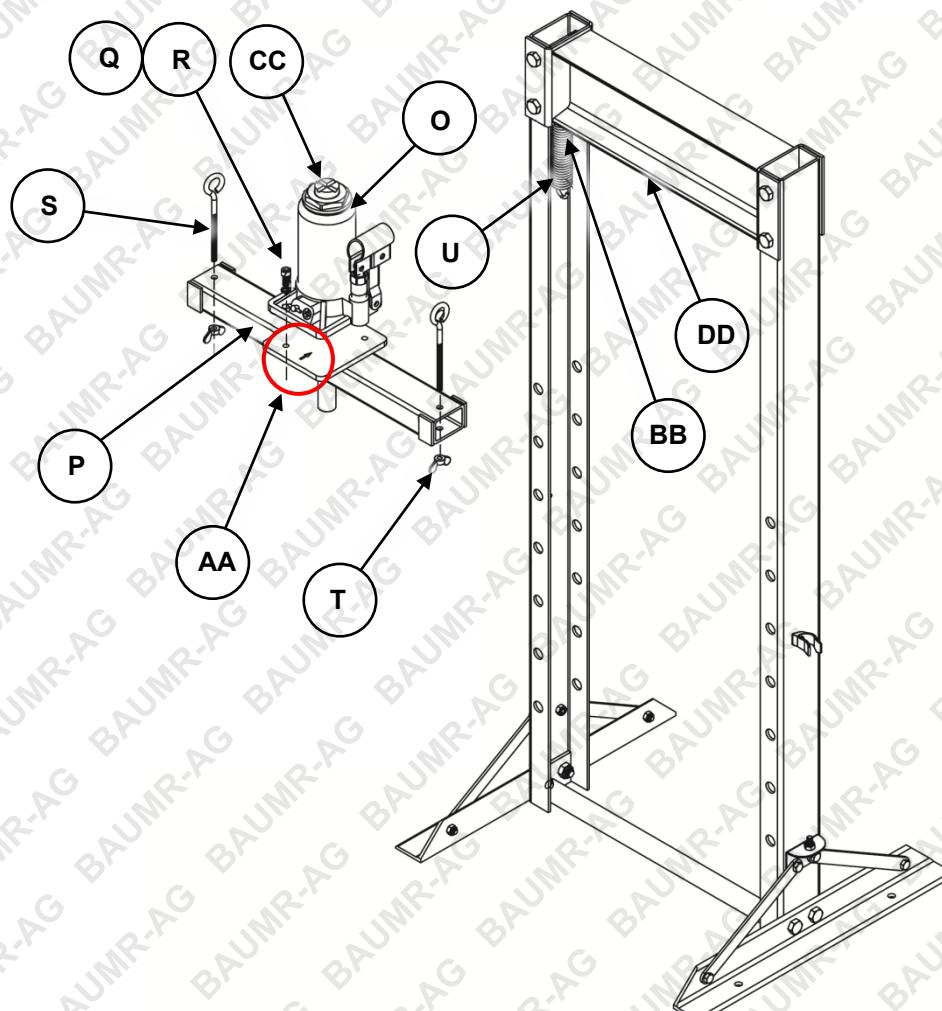
1. Attach the frame bottom brace (**B**) to the bottom of the frame legs (**A**), then place each foot (**C**) on either side so the attachment holes on the feet are aligned with the holes in the frame legs. Secure the parts using 4 M12x30 bolts (**D**) and M12 nuts (**E**). Tighten the fasteners securely using suitable spanners.
2. Attach 2 foot braces (**F**) to each foot and frame leg. On the right-hand leg, place the handle bracket (**G**) between the frame leg and the braces. Secure the parts using 8 M8x20 bolts (**H**) and M8 nuts (**I**). Tighten the fasteners securely using suitable spanners.
3. On the right-hand frame leg, attach the handle clip (**J**) to the leg using the M5x16 bolt (**K**) and M5 nut (**L**). Insert a M8x20 bolt (**H**) through the hole in the handle bracket from the underside and secure using a M8 nut (**I**). Tighten the fasteners securely using suitable spanners.



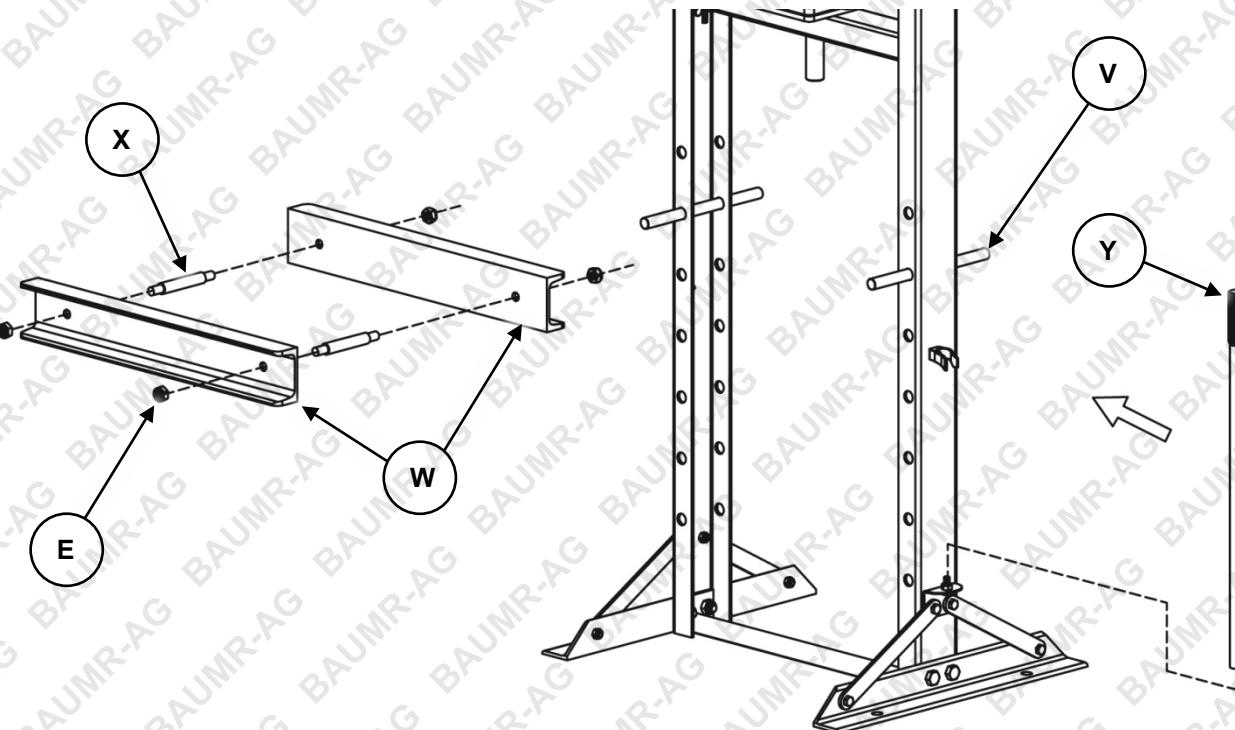
4. Place the frame top beam (**M**) in position between frame legs. Secure the parts using 4 M12x105 bolts (**N**) and M12 nuts (**E**). Tighten the fasteners securely using suitable spanners.



5. Attach the hydraulic jack (O) to the jack plate (P) using 2 M8x20 cap screws (Q) and spring washers (R). Ensure that the jack is placed so that the handle is on the right-hand in relation to the arrow (AA) on the jack plate. Tighten the fasteners securely using the supplied Allen key.
6. Insert the jack plate hooks (S) through the jack plate, from the jack side, and secure with the wing nuts (T). Hang the jack plate springs (U) from the eyelets (BB) located on the underside of the top beam of the frame.
7. Place the jack plate assembly inside the frame and hook the jack plate springs to the hooks on the jack plate. Ensure that the top of the hydraulic jack (CC) sits inside the retainer (DD) located on the underside of the top beam of the frame. Adjust the wing nuts as required so the jack plate is level and the top of the hydraulic jack is correctly located when the jack is fully retracted.



8. Insert the press table pins (**V**) through a hole in the frame legs – one pin per frame leg and in the same hole so they are level.
9. Assemble the press table by placing the press table beams (**W**) on either side of the frame attaching them using the 2 press table bolts (**X**) and 4 M12 nuts (**E**).



10. To attach the handle (**Y**), push it into the clip and let the bottom of the handle tube rest over the handle bracket bolt.
11. It is recommended to mount the press to the floor. Ensure the mounting surface is flat and level, and is capable of supporting the weight of the equipment and any loads it generates – preferably concrete. Secure the press using the holes in the feet and suitable fasteners. Do NOT install the equipment outdoors or in areas subject to dampness or high humidity.

Operation



Crush Hazard - Use extreme caution when operating the equipment. Keep hands and other body parts clear of the equipment and work pieces during operation. • Do

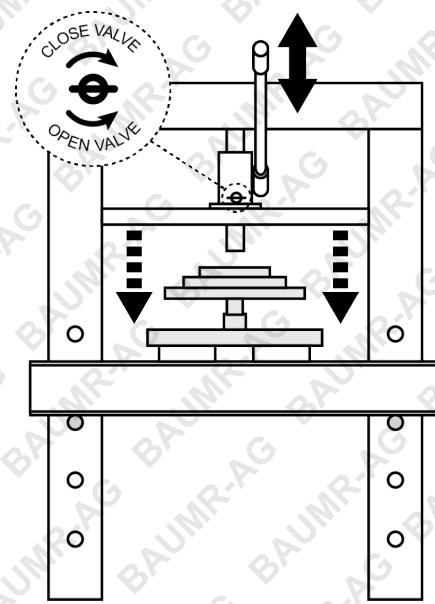
NOT exceed the 10 tonne rated capacity. • Always use the press with the press table level. •

Always place the press table at the highest possible position for the job. • Ensure the press table, work-piece support plates and work-piece surfaces that are in contact with the equipment are clean and free from any debris etc that may cause any misalignment. Misalignment may cause damage to the equipment and/or work-pieces. • When pressing items together, the items must line up vertically. If they are not, parts may be forcefully ejected when placed under pressure. • Always keep clear of the hydraulic jack when releasing pressure – always release pressure gradually. • Before each use, check the hydraulic jack for correct operation, and for misalignment / binding of moving parts, damage or any condition that may affect the equipment safety or performance. Do NOT use damaged or unsafe equipment. **Incorrect use of the equipment will void warranty.**

1. If necessary, move the press table to the highest possible position that allows the job to be performed.

To move the table, hold it firmly and remove the press table pins. Then, hold the press table in the required position and insert the press pins in the nearest hole underneath the table. Ensure the pins pass through the frame fully.

2. Place the work-piece on to the press table. Use the work-piece support plates or suitable objects to properly support the work-piece, as required.
3. Position the work-piece so that where pressure is required is directly beneath the pin protruding from under the jack plate.
4. Close the valve on the hydraulic jack by using the slotted end of the handle to rotate it. Rotate it to the right (clockwise) until firm.
5. Slide the handle into the handle sleeve on the hydraulic jack and move up and down to "pump" the jack. The jack plate should move down a little with each pump. When the jack plate makes contact with the work-piece, pump the jack slowly and apply only as much pressure as necessary to complete the job. Keep a close eye on the work-piece when applying pressure.
6. When the job is complete, use the handle to open the valve (rotate left / anti-clockwise) on the hydraulic jack. Always open the valve slowly. Allow the jack plate to return to the top-most position before removing the work-piece from the press table.



Maintenance



Some maintenance activities described may be beyond the scope of some users. For procedures that you are not comfortable with or have the tools or experience for, have the unit serviced by a service centre or qualified technician. • Repair or replace non-serviceable components immediately – use only parts from the manufacturer or recommended by them. • Always dispose of used oil in an environmentally responsible manner and according to regulations. • **Improper maintenance or lack of due care when maintaining the equipment may void warranty.**

To keep the equipment performing safely and efficiently, regular checks and maintenance is required. Proper care and maintenance ensures best performance and longest service life.

- Before each use, check the hydraulic jack for correct operation, and for misalignment / binding of moving parts, damage or any condition that may affect the equipment safety or performance. Do NOT use damaged or unsafe equipment.
- Maintain general cleanliness and dryness of all surface to prevent corrosion.
- Change the hydraulic jack oil every 2 years:
 1. Remove the hydraulic jack from the press.
 2. Open the valve slightly and push down on the jack so it is fully lowered.
 3. Remove the rubber plug from the drain port on the rear of the jack.
 4. Tilt the jack and empty the hydraulic oil into a suitable container.
 5. Clean any oil from the jack body and place in an upright position.
 6. Use a suitable hand pump type oil dispenser to refill the jack through the oil drain port with ISO 150 or AW-32 hydraulic oil. When the oil level begins over-flowing from the drain port, the jack is full. Re-install the drain plug.
 7. Close the valve, then "pump" the jack and ensure the piston rises. It is recommended to "bleed" the jack of any air inside the hydraulic system as follows:
 - a. Open the valve $\frac{1}{2}$ to 1 full turn, then push down on the piston so it is at the lowest position.
 - b. "Pump" the jack repeatedly at least 20 times to circulate the oil through the system and push any air into the oil reservoir.
 - c. Remove the rubber plug from the drain port on the rear of the jack to release any pressurised air.
 - d. Top up the oil reservoir if required, then re-install the drain plug.
 8. Re-install the hydraulic jack to the press.

Troubleshooting

Note: Some maintenance activities described may be beyond the scope of some users. For procedures that you are not comfortable with or have the tools or experience for, or if problems persist after following all suggested actions, contact a service centre or qualified technician.

The following information may assist in identifying a problem and rectifying it.

Hydraulic jack ram not extending or is retracting under load.

Possible Fault	Action
Valve not fully closed	Check that the valve is fully closed.
	
Air in system	Bleed the jack.
	
Insufficient hydraulic oil	Ensure the oil reservoir is filled to the correct level.

Oil leaking from hydraulic jack.

Possible Fault	Action
Over-filled	Ensure the oil reservoir is filled to the correct level.
	
Valve or piston seal no longer serviceable	Replace seal.

Specifications

Maximum Load Capacity	20 tonnes
Dimensions	Approximately 600mm (L) x 500mm (W) x 1300mm (H)
Hydraulic Oil Type	ISO 150 / AW-32



Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death, consult the points below and additionally, the information available at www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognized training course before being given access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third-party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example), there is always a small chance of technical issues that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error after considering the points above, simply contact the retailer directly for details of their returns policy, if required.



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