

**OPERATION, SPARE PARTS
AND SERVICE MANUAL**



HYDRAULIC BLOCK SPLITTER

(FBS65 MODEL)



FAIRPORT

CONSTRUCTION EQUIPMENT LIMITED

Blagden Street
Sheffield
S2 5QS
ENGLAND

Tel: +44 (0) 114 276 7921

Fax: +44 (0) 114 272 0965

Email: sales@fairport.uk.com

Web: www.fairport.uk.com

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- SAFETY, OPERATION & SERVICING

DESCRIPTION

The FBS65 block splitter is designed to cut materials such as paving slabs, paving blocks and building blocks etc. with parallel faces. The maximum depth of slab that may be cut is 235mm, the minimum is 45mm and the maximum width is 640. The machine is fitted with triangular blades that give each blade three cutting edges.

SAFETY

- Ensure splitter is standing on a firm level surface.
- Wear eye protection, gloves and safety footwear.
- Do not allow hands or feet to be between the blades when carrying out any blade adjustments.
- Disconnect handle when not in use.
- When moving the machine ensure there is no material on the table which will slide off when the machine is tilted.
- Never use an extension bar on the jacking handle.

CAUTION

- Avoid warped or 'green' blocks and slabs. These will break prematurely and not where required. All slabs must have flat parallel faces; riven slabs are unsuitable for splitting.
- Check sharpness of blades regularly.
- Do not attempt to cut material of a size outside the range of the splitter.

- SAFETY, OPERATION & SERVICING

It is not possible to be specific with regard to the types of materials that are suitable for splitting and that are unsuitable. Generally a material that splits quickly, easily and cleanly with a sharp crack-like noise is suitable; a material that splits irregularly and requires a high level of effort is unsuitable. If the material appears to crush or crumble during the cutting action then this may indicate that the material is too soft and unsuitable. Repeated attempts to cut this material will damage the machine and this will not be covered by warranty.

ADJUSTMENTS

With the jack fully raised, lower the upper blade to its lowest height above the block to be cut. When adjusting the blade height always hold the handles of the upper blade beam when removing the pins that support the power forks.

In order to obtain a clean cut (break) it is essential that the upper blade is parallel to the surface of the material to be cut. To ensure this, place the material to be cut across the lower blade, operate the jack so that the top blade just contacts the material. If the top blade is only in contact at one end of the material, slacken the hand screw and continue to operate the jack to create a slight pressure. This will automatically adjust the top blade so that it is parallel to the material surface. Check that the blade contacts all the way along and then retighten the hand screw.

OPERATION

- Check the blade adjustment as above.
- Place the material between the blades so that the cutting action is in the centre of the blades and not towards one end.
- Check the pressure release screw is tight; this is the wing screw on the side of the jack.
- Insert the jack handle into the jacking lever and pump the blade down to cut the material.
- Release the blade by loosening the pressure release screw at the side of the jack. Retighten screw when jack has retracted to desired height.
- Clear all debris from around blades after each cut.

CHANGING CUTTER BLADES

If the cutter blades are worn then they will need turning or replacing. Use a long bar as a drift and knock each blade out from one end. Turn each blade so that an unused edge is at the cutting position and knock back into position. If all cutting edges are worn and the blade is to be discarded the new blade may be used as a drift and remain in position after knocking out the worn blade.

- SAFETY, OPERATION & SERVICING

JACK SERVICING INSTRUCTIONS

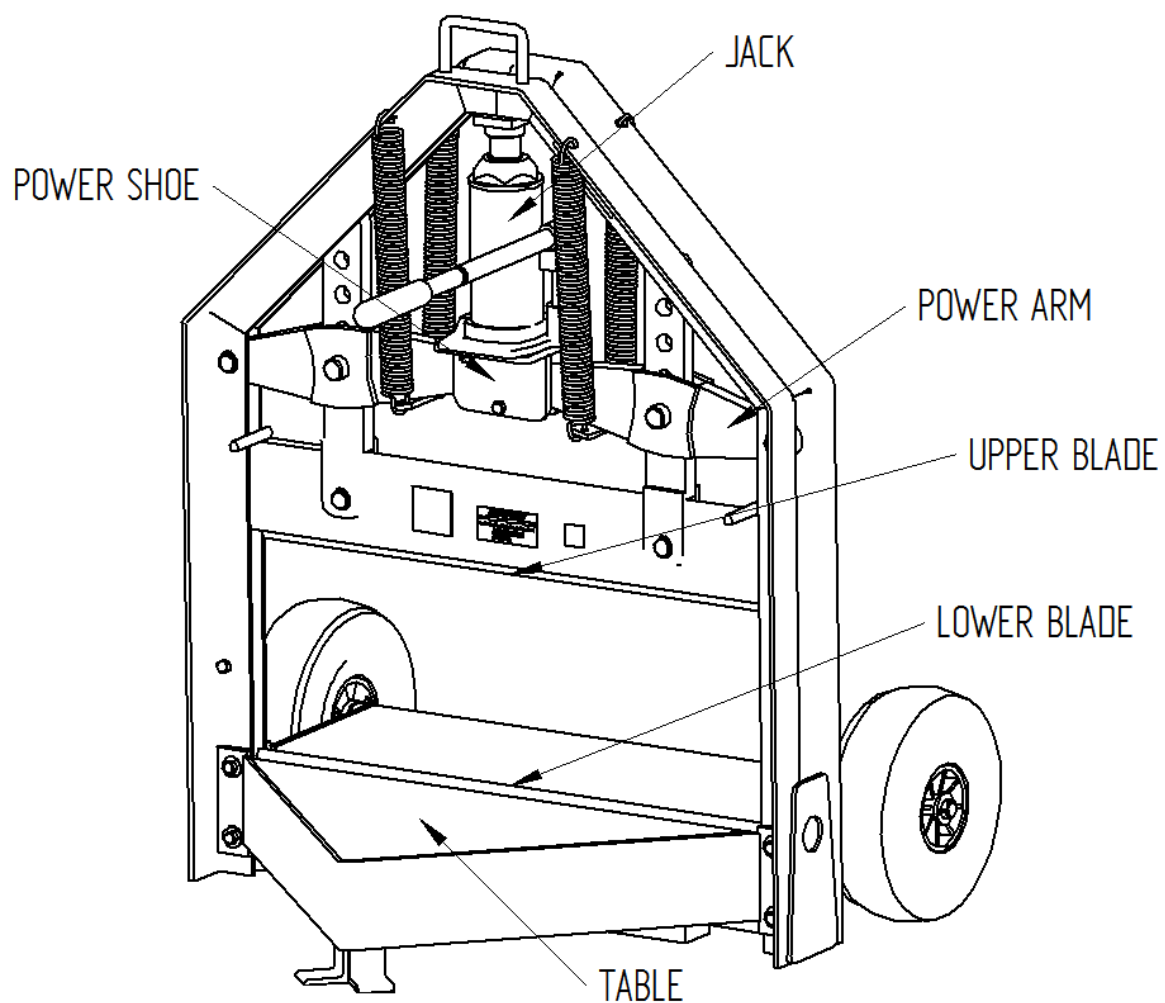
Dismantling

1. Loosen the plug (Item 9) and allow oil to drain out.
2. Fasten the base of the jack in a vice.
3. Loosen the head nut (Item 2) by screwing it counter clockwise. The tank tube (Item 10) is now loose.
4. Pull out the lifting piston (Item 4) from the cylinder tube (Item 14).
5. Remove split pins and loosen the pins.
6. Detach the pump beam and link from the pump piston and base.
7. Pull up the pump piston.
8. Loosen the pump cylinder by screwing it counter clockwise.
9. Loosen the cylinder tube by screwing it counter clockwise. Take care not to distort the cylinder tube.
10. Screw out the release screw by screwing it counter clockwise.
11. Turn the base upside down so that the washer, ball and valve seat can be removed.
12. The jack is now dismantled. The safety valve is set by the manufacturer and must not be tampered with.

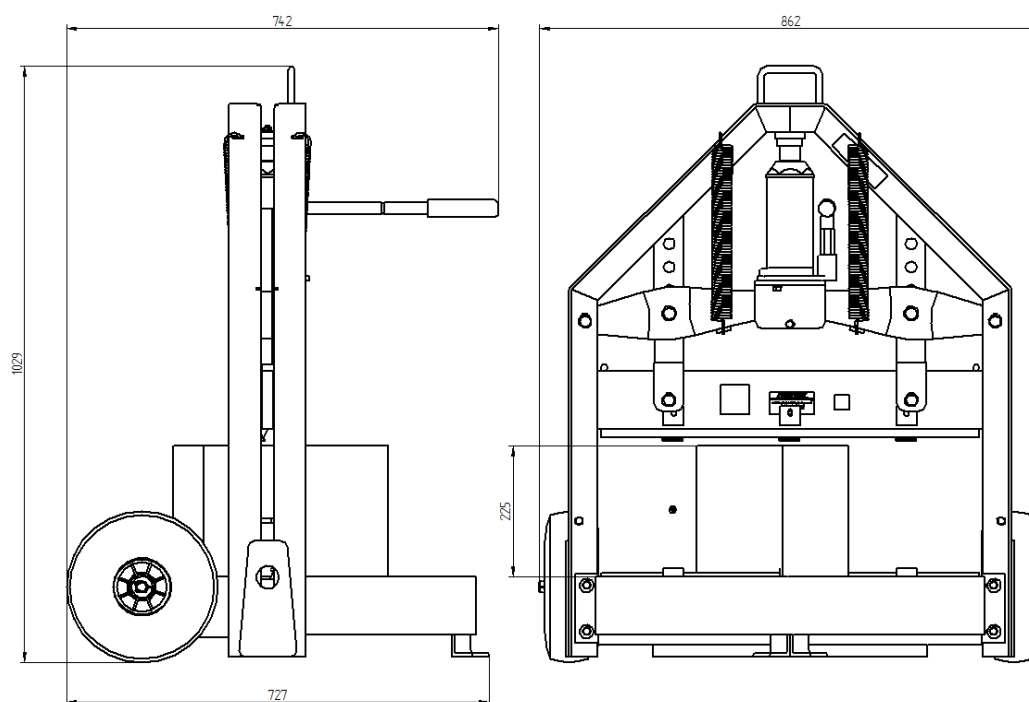
Reassembly

1. Clean all parts carefully.
2. Oil all threads, pins and seal contact surfaces.
3. Fit all seals in their correct positions.
4. Fasten the base in a vice.
5. Assemble the release screw by screwing clockwise.
6. Place the ball into its seat. Form the seat by placing a soft mandrel on the ball and giving it a light tap with a hammer.
7. Assemble washer, filter and valve seat into the base.
8. Screw the cylinder tube into the base by screwing it clockwise (550Nm torque). Take care not to distort the cylinder tube.
9. Assemble the pump cylinder into the base by screwing it clockwise (100Nm).
10. Press the pump piston carefully down into the pump cylinder.
11. Assemble the pump beam and link into the pump piston and base with pins and secure with split pins.
12. Assemble the seal, support ring and tank tube onto the base.
13. Press the lifting piston carefully down into the cylinder tube.
14. Fasten the head nut c/w seal by screwing it clockwise (220Nm torque).
15. Fill with oil up to the lower edge of the oil filling hole, with the jack upright, and refit plug. Use grade 10 hydraulic oil.
16. Air bleeding of the jack is achieved by pumping up the jack once to the uppermost position without load.

- TECHNICAL DATA & UNDERSTANDING YOUR BLOCK SPLITTER



DIMENSIONS



- WARRANTY CONDITIONS AND CLAIMS PROCEDURE

All products supplied by Fairport Construction Equipment Ltd (hereafter referred to as FCE) are warranted to be free of defects due to faulty materials or workmanship for a period of 12 months from the date of original despatch from FCE or 3 months for all spare parts used in repairs carried out by FCE or an authorised dealer or repairer.

If the goods have been purchased through a stockist the above warranty periods also apply from receipt of the goods by the user of the equipment up to a total of a further 6 months from date of despatch from FCE whichever is earlier.

Filter elements, gauges and oils are specifically excluded from this warranty.

FCE shall at their option repair or replace, during normal working hours, goods accepted as faulty free of charge to the user.

For proprietary items such as engines, the original manufacturer's warranty and conditions shall apply.

CONDITIONS

The goods shall be returned at the purchaser's expense to FCE or to a destination FCE may reasonably direct. Carriage costs will be refunded if warranty is accepted.

Warranty claims will not be considered where there is evidence that failure has been caused by carelessness, improper use, negligence, inadequate servicing, incorrect engine speeds, fair wear and tear or non-compliance with instructions issued by the manufacturer.

To the extent permitted by law, the liability of FCE under this section is confined only to providing a remedy for defective goods and does not extend to any consequential loss, loss of profit, injury or damage suffered.

Warranty will not be accepted on dismantled goods unless dismantling was carried out with the written permission of FCE.

No claim shall be considered if other than genuine parts supplied by FCE have been used.

Products are only covered by this warranty in the country to where they were supplied by FCE.

Warranty on products applies only to the original user of the equipment.

This warranty shall not apply if the serial number or other identifying numbers or marks applied by FCE have been removed, defaced or are otherwise illegible.

CLAIMS PROCEDURE

Check that the goods are still under warranty before returning them to FCE (see above for warranty periods).

Return the goods to FCE with an order number for the work to proceed. If warranty is accepted no charge will be made. If warranty is not accepted a quotation will be given for the repair.

In the customer's interest, goods must be accompanied by documentation detailing the nature of the fault or its symptoms. Phrases such as 'Faulty' are unacceptable and will result in delays and possible charges to defray costs incurred in identifying the fault.

- REPAIRS AND ESTIMATES

When returning a machine, or an assembly for repair, always include an Advice Note quoting model and serial number of the machine.

A purchase order must also be forwarded to FCE giving detailed instructions. No repair work can be carried out unless covered by a purchase order.

An estimate will be submitted before proceeding with any repair. To partly cover the cost in dismantling, cleaning and inspection, a small charge will be made; this however will be waived upon receipt of your official instructions to proceed with the repair.

In the event of the estimate not being accepted, a further charge will be made to cover the rebuilding of the machine.

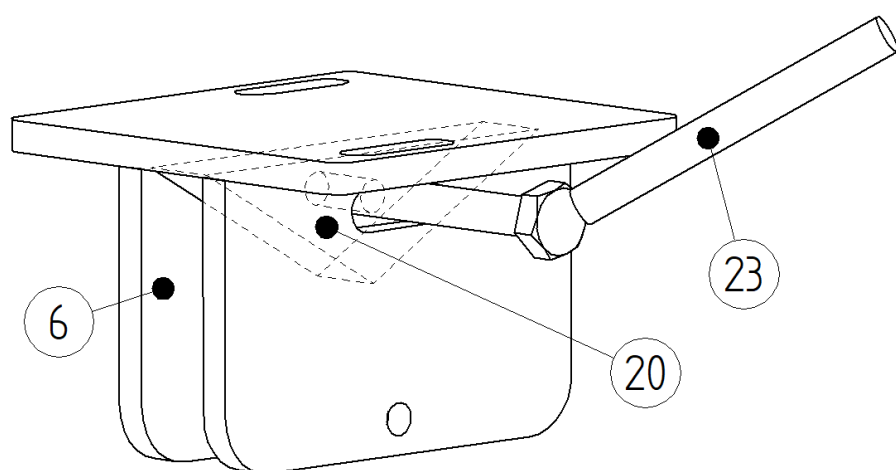
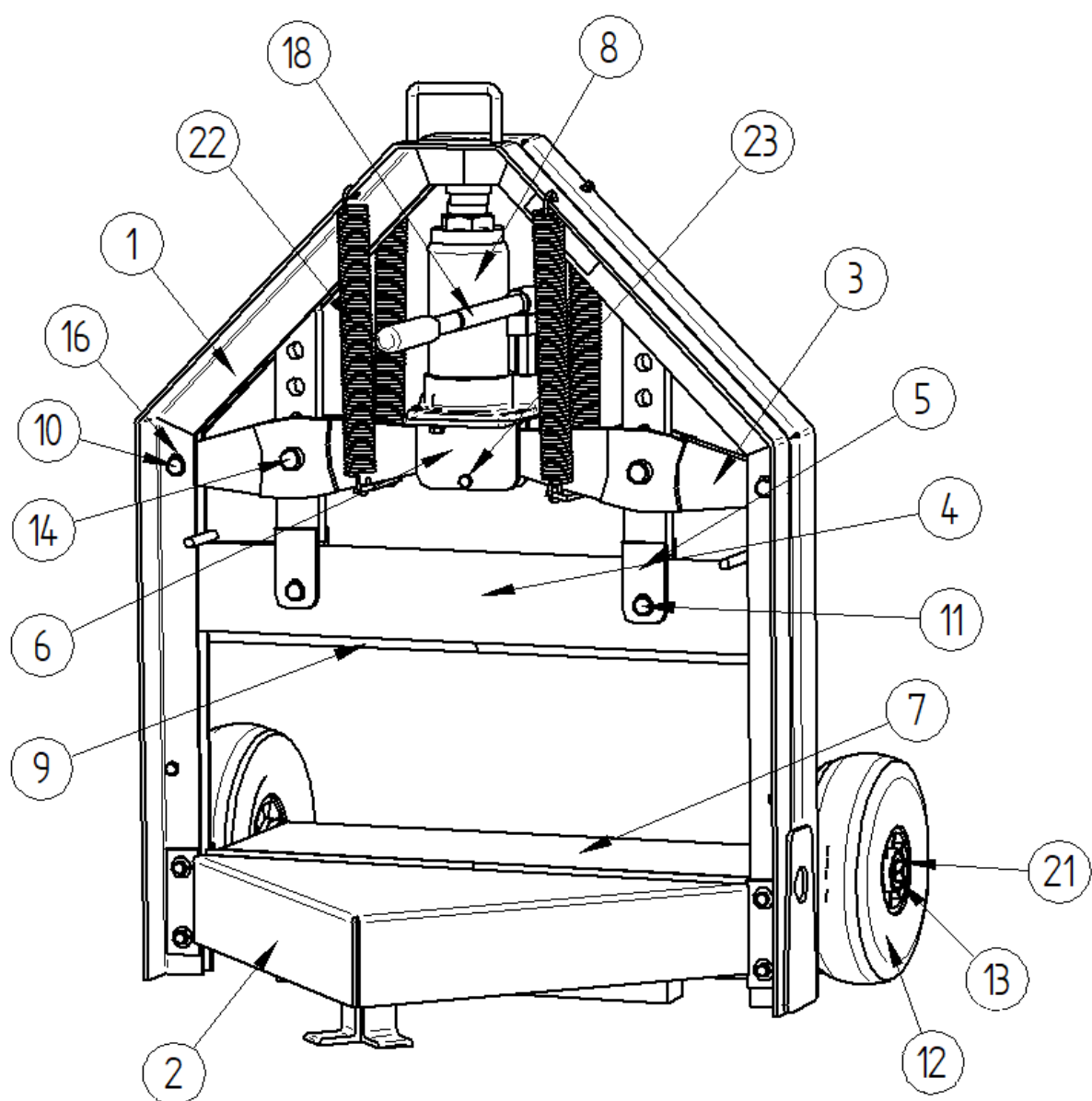
Estimates must be treated as approximate only as it may be found necessary to use additional parts on further examination.

- ENVIRONMENT

This machine contains materials that can be recycled. We recommend that when the machine is disposed of, it is done safely and in a way that protects the environment.

Part Description	Materials
Jack	Steel
Frame	Steel
Tables	Steel
Springs	Steel
Fasteners	Steel
Wheels	Plastic/ Rubber
Blade	Steel
Handles	Steel

- PARTS LIST



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Item No	Part No	Description	Qty
1	W23000	FRAME	1
2	W23011	FRONT TABLE	1
3	W23001	POWER ARM	2
4	W23004	UPPER BEAM	1
5	W23003	POWER FORK	2
6	W23006	POWER SHOE	1
7	W23012	REAR TABLE	1
8	W23022	JACK C/W HANDLE	1
9	W23005	BLADE	4
10	W23009	PIVOT PIN	2
11	W23013	LOWER BEAM PIN	2
12	W87619	WHEEL	2
13	W418/20	WHEEL WASHER	2
14	W23015	ADJUSTMENT PIN	2
15	W88925	R CLIP	2
16	W81301	CIRCLIP	8
17	W23025	BOLT KIT	1
18	W23024	JACK HANDLE	1
20	W23007	POWER TRANSFER	1
21	W516/5/50	WHEEL SPLIT PIN	2
22	W23008	SPRING	2
23	W23010	HANDLE SCREW	1
*	W23025	BOLT KIT	1

- not illustrated

- EC DECLARATION OF CONFORMITY

Manufacturer's Name: **Fairport Construction Equipment Ltd**

Manufacturer's Address: **Blagden Street
Sheffield
South Yorkshire
S2 5QS**

Declares that this product: **FBS65**

Description of Equipment: **HYDRAULIC BLOCK SPLITTER**

Serial Number

Model


Conforms to the following Directive: Machinery Directive: 2006/42/EC
Electromagnetic Compatibility Directive: 2004/108/EC
Low Voltage Directive: 2006/95/EC
Outdoor Noise Directive: 2000/14/EC Annex VI Procedure 2
Schedule 9 Section 6 (Regulations)
BSEN12100-1: 2010 Safety of Machinery

Measured Sound Power Level: **78.9 dB L_{wa}**

Guaranteed Sound Power Level: **78.9 dB L_{wa}**

Motor Power **0.37 kW**

*Contact Details for Manufacturers:
Signatory etc.:* **Ian Morris
Technical Manager
Fairport Construction Equipment Ltd
Blagden Street
Sheffield. S2 5QS
Tel: 0114 2767921
Fax: 0114 2720965**

Signature: 

Notified Body: **AV Technology Limited
Avtech House
Arkle Avenue
Handforth
Cheshire SK9 3RW
United Kingdom**

Place of Declaration: **As above**

Date: