

USER MANUAL

WORKBENCH WITH HYDRAULIC PRESS
FME-WBHP-2300

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1. GENERAL INFORMATION

This user manual.

This user manual has been compiled in English by:

FEED MILL SERVICES & EQUIPMENT BV

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Nothing in this user manual may be reproduced in any form whatsoever without the permission of the manufacturer.

1.1 Machinery Information

This user manual belongs to the machine of the type as indicated on the cover page.

This Workbench with Hydraulic Press, FME-WBHP-2300, is produced by:

FEED MILL SERVICES & EQUIPMENT BV

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1.2 IIB-Marking

The workbench with hydraulic press has been constructed and implemented by Feed Mill Services & Equipment BV according to the relevant European directives on safety and health. This means that the machine complies with the IIB-marking. The Declaration of Conformity (included in this manual) indicates the guidelines applicable to this machine.

2. INTRODUCTION

This user manual is a support to allow you to handle your workbench with hydraulic press. You should read this documentation completely. For additional information we ask you to contact the Feed Mill Services & Equipment BV.

This user manual is part of the delivery and must remain in good hands while using the workbench with hydraulic press. There must be a copy available for those working with this press. When the workbench is surrendered, it is intended that this user manual is also transferred.

Treat this instruction carefully. It is not allowed to change or delete pages. Feed Mill Services & Equipment BV reserves the right to replace parts of this manual, in the context of the improvement of the product, at any time without directly providing a new edition.

2.1 Staff

Certain operations can only be operated or made by qualified or trained staff. For the description of the qualification level the following standard features are used:

- The qualified staff must have sufficiently technical knowledge and/or work experience to be able to recognize and prevent potential danger (engineers and technicians).
- The staff must be adequately trained and/or controlled by the qualified staff to identify and prevent the potential danger (the operated and maintenance staff). They should have the following qualifications:
 1. They must be trained to operate the product safely. They must be capable to operate the equipment according to standard safety regulations.
 2. They must maintain the product and use the safety devices as described in this manual.

The customer and/or user is/are required to ensure, in particular, that the press uses:

- that the staff has read and understood this manual.
- that the staff follows the instructions as given in this manual.



2.2 Individual Means Of Protection

The staff, mentioned in the previous paragraph, must wear protective clothing which is necessary for the employment of the press.



Safety shoes are required. The need for wearing hearing protection, eye protection and a helmet can be defined by the user.



It isn't allowed to wear clothing that can get caught in moving machine parts.

2.3 Workplace

If workplace is intended and requires a space of at least 1 metre around the entire workbench. From here, all operations can be performed.

2.4 General Safety Instructions

The following provisions and recommendations are primarily based on observing the rules of the safety regulations mentioned in this manual.

Feed Mill Services & Equipment BV isn't responsible for possible damage to persons or goods related to ignoring of the safety regulations and instructions in this manual.



Transportation, installation, operation and maintenance of the workbench with hydraulic press can only be performed by the staff which meets the conditions described in the previous section.

The workbench with hydraulic press is designed and constructed so that it can be safely used and maintained. This applies to the application, the circumstances and the rules as described in this manual. Reading this manual and following the instructions is therefore **necessary** for anyone working with or to this machine.

Additional safety measures may be prescribed by the company or country in which the machine is in use. This concerns in particular working conditions. This manual describes **not** how to comply, however, the necessary information about the machine is given.

A distinction is made in this manual between normal use and other work on the machine. The reason for this is that, especially regarding safety, the service personnel are subject to different requirements than to operators.

2.5 Operational Restrictions

Attention is hereby drawn to the following applications, for which the machine **not** suitable:

- Processing of products other than those prescribed
- For functions other than those defined

Consequences regarding the use of the countersink machine in any application is not the responsibility of Feed Mill Services & Equipment BV in any form whatsoever.

All claims for damage caused by unintended use are not permitted. Here the owner/responsible is responsible for itself.

2.6 Protection Of The Environment

No special hazards are associated with the use, maintenance and demolition of this workbench with hydraulic press, taking into account the prescribed (safety) measures.

The machine itself does not contain any substances that may pose a danger to individuals.

2.7 Calamities

By calamities is meant: fire, flood and the like.

Measures must be taken in an emergency situation that don't endanger persons or goods. The usual extinguishing agents can be used.

In the event of fire, care must be taken to ensure that the galvanizing machine isn't connected to the electrical circuit when taking measures.

The machine must be de-energized when there is damage to the equipment. Keep moisture away from live parts. Moisture can lead to short circuit.

Repairs and work on electrical installations may only be carried out by a qualified electrician.

Ensure that hot surfaces can't be touched. Touching hot surfaces can lead to severe burns.

Improper use of environmentally-friendly and hazardous substances can cause serious damage to the environment.

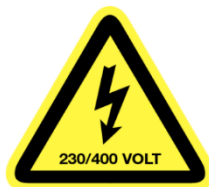
2.8 Marking

The workbench is equipped with a type plate with a manufacturer-known and unique type number. The type plate gives various information for example about the year of construction and the manufacturer's details.



Figure 2.8.1
Example of a type plate

If the following warning sticker is indicated, attention must be paid to electrical danger during repair or maintenance.



For indications on the standard parts see their own specifications.

Warnings:

- Read the user manual carefully before turning on the hydraulic press.
- When products fall during import, they must be removed as soon as possible. Products that remain can be an obstacle to a subsequent import cycle.

Unreadable labels, symbols, etc. can lead to danger. They can become dirty or unreadable over time. Therefore:

- Labels, symbols, etc. must be clearly legible.
- Damaged labels, symbols, etc. must be replaced. For this we advise you to contact Feed Mill Services & Equipment BV.

2.9 Transport

Before shipment each machine has been examined and checked thoroughly. Check at reception of the goods the integrity and the contents of the package to ensure that nothing has been damaged during the transport. Check also if the delivery corresponds to the order.

When unloading should carefully be made to the equipment.

Report any defects or damage immediately to Feed Mill Services & Equipment BV and to the carrier responsible for the damage during the transport.

An objection to any defects or damages must be made within 10 days after receipt of the goods.

3. INSTALLATION AND COMMISSIONING

3.1 General

Requirements for installation are:

- a stable surface that is a burden of at least \pm 3000 kg can carry
- the machine must be set up in such a way that there is sufficient space to carry out control and/or repair work
- the machine can be picked up by a forklift, which is certainly a burden of \pm can carry 1500 kg.

3.2 Commissioning

For the first use after a major overhaul, repair or long-term storage, machine should be recommissioned.

Check:

- Whether all parts and accessories are present
- Whether all moving parts can run freely
- Correct direction of rotation and connection of the motors
- Damage, especially external electrical wiring
- The correct operation of all mechanical control devices
- The correct settings corresponding to the type of product to be processed
- Whether all hydraulic connections still be in tact



Warning!

The risks of improper functioning are greater than normal during business counting. Take additional safety measures where necessary.

4. SPECIFICATIONS

4.1 Machine Specifications

Machine dimensions	
Length:	± 2000 mm
Width:	± 1700 mm
Height:	± 2500 mm
Machine weight:	± 1250 kg
Motor power:	1.5 kW
Voltage:	230 V
Tank capacity:	8 L
Max. hydraulic pressure:	210 bar
Speed:	<10 mm/sec



*Figure 4.1.1
Workbench with hydraulic press
FME-WBHP-2300*

4.3 Conditions Of Use

- Ambient temperature: +5 till +40 Degrees Celsius
- During transport: 0 till +45 Degrees Celsius
- Storage temperature: +10 till +60 Degrees Celsius

The machine is not intended for use in the open air.
The machine is not suitable for an explosive atmosphere.

4.4 Machine-Overview

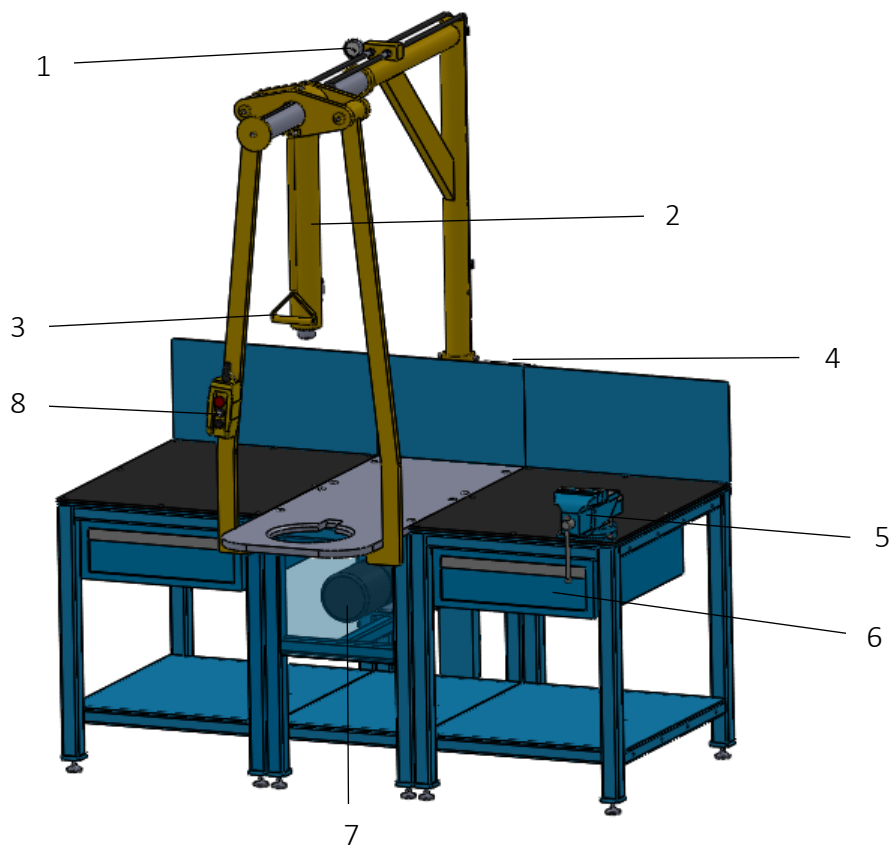


Figure 4.3.1
Workbench overview

- | | |
|--|---------------------------------------|
| 1. Manometer | 5. Vise |
| 2. Hydraulic Cylinder | 6. Drawer Unit |
| 3. Handle | 7. Aggregate |
| 4. Terminal box incl.
on/off switch (rear side) | 8. Control panel incl. Emergency stop |

5. MAINTENANCE AND REPAIR

5.1 Introduction

The appropriate maintenance is important for a long life of the hydraulic press and its components, under good and functional conditions. It also guarantees the necessary long-term reliability.

5.2 Safety During Maintenance

The maintenance work of the countersink machine requires a few rules of conduct, namely:

- All maintenance work must be carried out by qualified personnel (see section 2.1).
- Maintenance work must be performed when the equipment is energized. The whole of the operational and maintenance staff must adhere strictly to the rules for the prevention of accidents of the equipment.



- Allow to cool hot surfaces
- Always wear safety shoes, protective clothing and other necessary equipment. During maintenance work do not wear jewellery or loose clothing.



- Use only original parts for proper operation of the equipment.
- Do not use abrasive or corrosive materials or solvents when cleaning the hydraulic press. Do not use any cleaning agents that affect the parts and/or cause corrosion.



5.3 Maintenance Instructions

Daily maintenance:

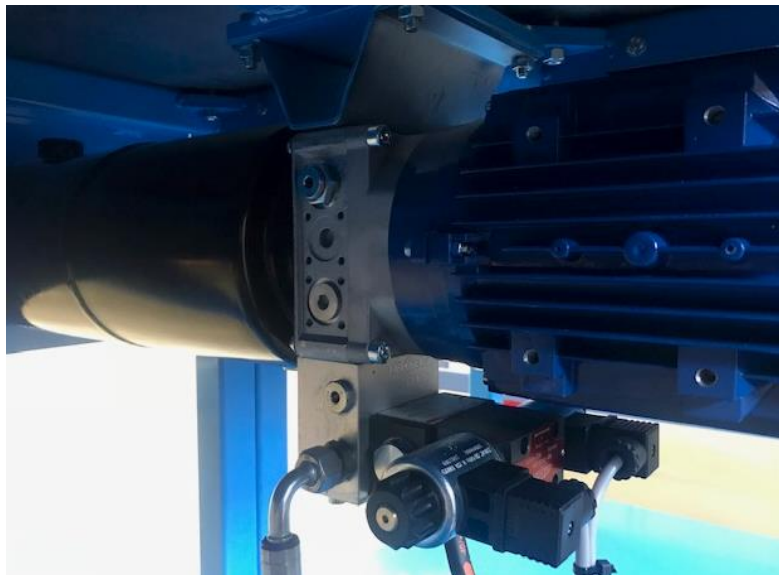
- Check the machine's business situation completely, especially the conduction rails lubrication system
- Keep the workbench clean. A clean workplace is safer and more pleasant.

Weekly maintenance:

- Check on traces of wear, which can be visually identifiable by product/machine damage

Other maintenance:

- Filling the reservoir. Fill the tank with clean oil (Viscosity oil: VG 46) to the maximum level. This can be done by unscrewing the steel sheet and removing it from the frame.
- The first service must be carried out 100 operating hours after commissioning, in which case the filters must be replaced and the oil checked. Furthermore, the entire installation must be carefully checked. Follow the following points for attention:
 - After the first service, major maintenance must be carried out after 300 operating hours and then every 500 running hours, or sooner after the load and the operating conditions, but in any case annually.
 - The filters and the oil must be replaced with great maintenance.



*Figure 5.3.1
Aggregate at the bottom of the workbench*

5.4 Repairs

During the warranty period, repairs can only be carried out under the manufacturer's direction. Each repair must be kept in a machine log. All parts that are replaced must meet the specifications of the original components at least.

5.5 Storage

There are no special requirements for storage, a cool and dry space is most suitable. After a long storage, the machine must be inspected by a technician for commissioning.

If the machine is brought from a cold in a warm space, it can occur during condensation (also internally in electrical components).

Direct switching can cause damage to the machine and danger to the operator. Let the machine first acclimatize.

6. CONTROL

- Switch On
 - Plug the power plug into the socket
 - Press the 'On/Off' button on the back of the machine to switch on the machine (see figure 6.1)
- Control
 - Press and hold the black button (bottom) on figure 6.2 to send the cylinder 'downwards' ('press-position')
 - Press and hold the white button (bottom) on figure 6.2 to send the cylinder 'up' ('rest-position')
- Switch Off
 - Press the 'On/Off' button on the back of the machine to switch off the machine (see figure 6.1)
- Emergency
 - In an emergency situation, press the 'Emergency Stop' (red button) shown in figure 6.2

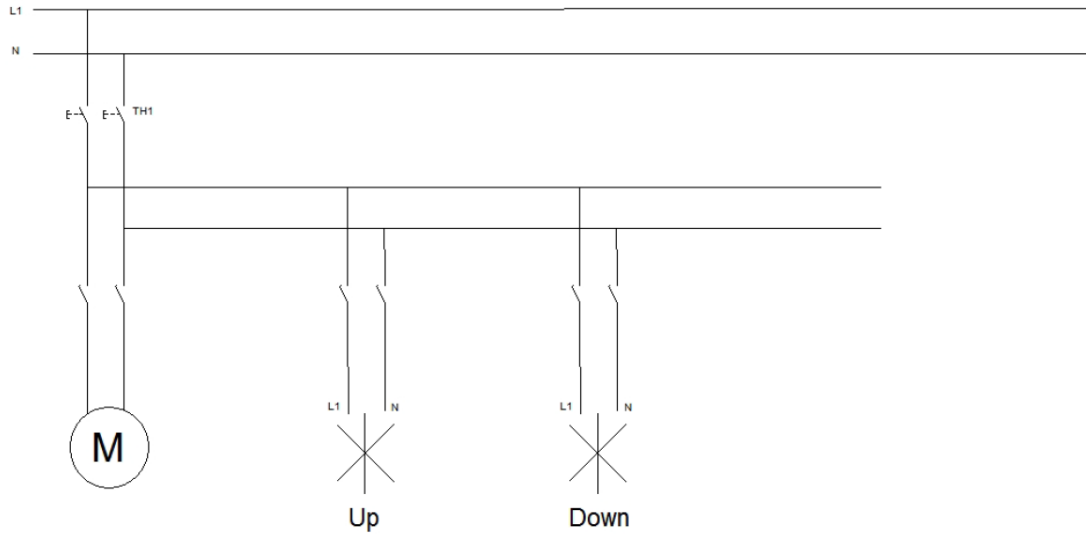


Figure 6.1
'On/Off' button



Figure 6.2
Control panel

7. ELECTRICAL DIAGRAM



8. EC-DECLARATION OF CONFORMITY

This Declaration of conformity and the CE marking on the type plate are valid for the workbench with hydraulic press which is part of the Feed Mill Services & Equipment BV delivery. When this workbench is built into a larger system, the manufacturer of this system (this can also be the operator) must carry out the conformity review process for this large system according to machinery Directive 2006/42/EC, the Declaration of Conformity and provide the system with the CE marking.



We

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Declaring that workbench with hydraulic press FME-WBHP-2300,

In accordance with the EU Directives:

- "Machines" 2006/42/EC
- "Low voltage directive" 2006/95/EC
- "EMC directive" 2004/108/EC

Is designed and manufactured to the following standards:

- NEN-EN-ISO 12100-1/-2 Safety of Machinery – General Design Principles, Part 1 and 2
- NEN-EN-ISO 13857 Safety of Machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs
- NEN-EN 349+A1 Safety of Machinery – Minimum gaps to avoid crushing of parts of the human body
- NEN-EN 982 Safety requirements for fluid power systems and their components - Hydraulics
- NEN-EN 13849-1 Safety of machinery – Safety-related parts of control systems
- NEN-EN 14121 Safety of machinery – Risk assessment
- NEN-EN 60204-1 Safety of machinery – Electrical equipment of machines – Part 1 General requirements

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