The machine shall only be used by trained personnel who have completely read and understand the manual.
THE MACHINE SHALL ONLY BE USED BY TRAINED PERSONNEL WHO HAVE COMPLETELY READ AND UNDERSTAND THE MANUAL.

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How to use the manual

1. Understanding this manual

- THE MACHINE SHOULD ONLY BE USED BY TRAINED PERSONNEL WHO HAVE COMPLETELY READ AND UNDERSTAND THE MANUAL

- To better identify the machine components, see section C - „Designation of parts“.

- Each section is marked with a capital letter and a symbol that corresponds to the Table of Contents.

2. Symbols and their descriptions:

△ Indicates important safety rules which must be followed!

! Indicates an important comment.

(G1) Component description code found throughout the manual and on the fold-out pages. The letter corresponds to the section where the component and its function is described.

Example: G1 is described in section G.

This capital letter indicates the section and is shown on the outer edge of the section. It is intended to aid in searching through the machine manual.
Safety instructions

Read before operation

• Failure to properly follow all safety rules and procedures in this manual, and all warnings and instructions on the machine, may result in serious personal injury or property damage.

Safety decal description

• Before connecting your machine to a power source, be sure to read ALL Safety Rules and the instruction manual!

• Wear safety glasses or a full face shield when operating this machine.

• Keep unauthorized people away from the machine. Only one person at a time must operate the machine.

• Disconnect electrical and pneumatic connections before making any repairs or adjustments.

• Electrical connections and maintenance must be performed by a qualified electrician. An electrical diagram is included in the instructions.
Safety instructions

• Keep hands and fingers away from drill bits while the machine is power connected, even if it is not running.

• Never attempt to operate machine without the guards in place.

• Never move your hands in the area of pinch points.

Safety rules

• This machine is designed for commercial and industrial applications and shall be used by fully trained professionals only. The machine is only intended for the drilling and insertion of Blum hardware into panels of wood, particle board, or laminated particle board.

• Always place operation mode switch to “set up” position and disconnect the power (unplugged) before performing any work on the drill heads, fences or stops.

• Keep work area clean. Cluttered areas and work stations increase the chance of accidents.

• Protect yourself from electrical shock. Do not use this machine in damp or wet locations, or expose it to rain.

• The hold-down clamps or other adequate means must be used to secure the panel during the operation.

• Observe the location of the control switches and become familiar with their operation.

• Wear proper clothing. Do not wear shirts with bulky sleeves and ties that could be caught in moving parts.

• Do not wear jewelry when operating this machine. Individuals with long hair should wear a hairnet to protect their hair from moving parts.

• Consider environmental factors and local laws when setting-up and operating the machine.
Safety instructions

- Before every use of the machine, make sure that all safety devices and parts of the machine function properly. Any defective safety devices and accessories must be repaired or exchanged by a qualified service technician only.

- Do not overreach. Keep proper footing and balance at all times.

- CAUTION: For your own safety, use only those accessories which are recommended or indicated in the manual or Blum sales literature.

- All accessories and attachments must be installed as described in the manual to assure a proper and safe operation of the machine.


- Protect electrical and pneumatic lines from heat, oil, traffic, sharp edges, etc.

- Do not use cables and pneumatic lines for purposes other than those originally intended.

- The actual noise levels in your work area may vary. Appropriate hearing protection may be necessary. This determination must be made by the user with consideration for the entire working environment and any applicable regulation. Factors liable to influence current immission levels in the workplace include the length of exposure, the characteristics of the workroom, and other noise sources.

- This machine, being cord and plug connected is in compliance with OSHA regulations 1910.147 (lock-out / tag-out) and does not require padlocks or other locking devices.

- For any question or problem with the machine, contact the Blum Customer Service Department: 1-800-438-6788
Designation of parts

D1 ... machine base
D2 ... base ruler
D3 ... clamping lever
D4 ... fencing system
D5 ... fixing pins for ruler
D6 ... indexing plate
D7 ... swivel stop
D8 ... air filter
D9 ... fan
D10 ... rotation direction arrow
E1 ... main switch
E2 ... drill / press stroke button
E3 ... hold-down switch
E4 ... operation Indicator Lamp
F8 ... swing arm
F9 ... drilling depth gauge
F10 ... adjustment for drilling depth
F13 ... adjustment screw for stroke speed
F14 ... adjustment screw for braking stroke
F15 ... clamping lever
F16 ... fixing pin
F17 ... hold-down clamp
F18 ... locking screw
F19 ... hold-down guard
F20 ... fastening screw for ram
F21 ... adjustment screw for swing arm
F23 ... drill/press unit
J1 ... air filter - water trap
J2 ... guide shafts
J3 ... lubricating nipples
J4 ... motor fastening bolts
Designation of parts

D9
F10
F14
F9
F23
J3
F21
F18
F17
F19
D7
D2
D1

D10
E4
E1
E2
E3
F8
F20
J4

F15
F16
D3
D5
D6
D4

F13
D8
J1
D3
J2
Designation of parts

D7   ... swivel stop
D13  ... box support

C

F3   ... cover caps
F5   ... fixing pin for drill head
F6   ... lever (to rotate gearbox)
F7   ... symbol furniture hinge
F11  ... drilling depth stop
F12  ... retaining ring

G3   ... symbol line boring pattern

H3   ... setting gauge

J6   ... clutch
Designation of parts

F5
G3
F12
F7
F6
H3
F11
F3
D13
J6
D7
Unpacking and assembly

1. MINIPRESS footprint

- $H = 27\frac{15}{16}''$
- $B = 24''$
- $T = 29\frac{15}{16}''$

2. Unpack MINIPRESS and fasten it to a suitable table using bolts.

- Open the box.
- Get an assistant to help you lift MINIPRESS onto the worktable.

**Warning:**
The machine weights approx. 82 lbs (37 kg) so make sure that the table is sturdy enough!

- Fit M8 bolts through the drill holes (D1) and tighten them.
- Do not install MINIPRESS in a damp area but in a dry room.
Initial set-up of MINIPRESS

3. Installation of base ruler (D2)
   - Loosen both clamping levers (D3) on the fencing System.
   - Lift locating pin (D5), and slide base ruler (D2), until the locating pin snaps into the center hole of the locating plate (D6).
   - Tighten clamping levers (D3).

4. Mounting the swivel stops (D7)
   - Loosen the locking bolt until the T-nut projects by 3/8" (10 mm).
   - Tilt the swivel stop against the ruler and raise the stop.
   - Tighten the locking bolt.

Note:
Follow the same procedure to place a stop between two existing stops.
5. Assembling the worktable

a) Accessory worktable MZA.1000
   • Set the fencing System (D4) to position DP.
   • Place the worktable on the machine base.
   • Slide the threaded rail into the hollow profiles and hold them while pushing upward.
   • Fit hex set bolts through the holes in the hollow profiles and fasten the table to the counter-plates (x-gap for chips).

b) Do-it-yourself worktable
   (see page 46)

6. Mounting the box Support (D13)
   • Use glue to attach the Box Support (D13) to the rear end of the control box (surface must be dry and oil-free).
Initial set-up of MINIPRESS

Connection to compressed air system

1. Connection of air supply

Warning:

The drilling unit (F23) moves upward when the steps below are carried out!

• Attach a 1/4" I.D. flexible hose onto barbed hose fitting (D8) of the machine.

Important:

A "quick disconnect" fitting must be installed on the compressed air hose, no more than 10" (3 m) away from the machine.

2. Setting the working pressure

• The working pressure is 6 bar (80 - 100 psi). If the machine is operated either below or above the recommended air pressure, could result in personal injury or damage to the machine.

• The compressed air supplied to the machine must be oil free and dry.
Initial set-up of MINIPRESS

Electrical connection

1. Electrical connection

- Set main switch (E1) to set up position.

- Mount a plug conforming to NEC. This machine must be connected through a circuit breaker (see wiring diagram).

Important:

The machine has been prepared for the voltage printed on the label of the connection cable.

Dust extraction

1. This machine may be connected to a dust extraction system.

- Insert a spiral hose with an inside diameter of 3-1/8" (80 mm) into the receiving tube and fix it.

- If no 3-1/8" (80 mm) extraction connection is available, use the adapters (illus. 2) supplied with the machine.
Description of operating panel

2. Designation of operating elements

- (E1) ... main switch
- (E2) ... press drill / press stroke button
- (E3) ... hold-down switch
- (E4) ... operation indicator lamp

3. Main switch (E1)

**Warning:**
The main switch does not disengage the machine from the compressed-air system.

**Set up position:**
Operation indicator lamp (E4) does not light up. machine is in set-up mode.
- Motor cannot start.
- Stroke can be performed.

**Drill / press position:**
Operation indicator lamp (E4) lights up. machine is in operating mode.
- Drilling and insertion of fittings is possible.
4. Checking the motor rotation

- Set main switch (E1) to drill / press position.
- Briefly touch the drill / press stroke button (E2).
- The motor fan (D9) must rotate in the direction of the arrow (D10).

**Note:**

*If you press the drill / press stroke button (E2) by only a few mm (1/16"), the drilling and pressing unit will move down at a slower speed.*

---

**Warning:**

Keep your hands out of the working area (A) of the machine when performing the tasks below!

---

5. Drill / press stroke button (E2)

**Warning:**

Keep your hands away from the working area (A) of the machine when pressing the drill / press stroke button.

By pressing the drill / press stroke button, one of the following preselected operations is carried out.

- **set-up:**
  - main switch to set up position + drill / press stroke button pressed

- **drilling:**
  - main switch to drill / press position + drill / press stroke button pressed

- **insertion of fitting:**
  - Swing Arm retracted + drill / press stroke button pressed
Description of operating panel

5. Hold-down switch (E3)

**Pos. Hold-down clamps on**
Pressing the drill / press stroke button (E2) causes the hold-down clamps to extend automatically.

**Pos. Hold-down clamps off**
The clamps remain retracted if you press the drill / press stroke button (E2).
**Drilling of hinge pattern**

1. **Necessary parts**
   - drill bits:
     - one 35 mm dia. rotating clockwise (F1) (marked black).
     - two 8 mm dia. rotating counterclockwise (F2) (marked orange).
   - Two cover caps (F3)
   - Insertion ram MZM.XXXX (F4). See Blum catalog for correct ram.
   - Door panel
   - Hinge

2. **Drill-bit length**
   - The max length of the drill bits (from bit-tip to adjustment screw) shall be 2.1/4" (57 mm).
   - To correct drill-bit length, adjust screw accordingly.

   **Important:**
   All drill bits shall be the same length!
3. Select drill pattern

- Pull out fixing pin (F5) on drill head.
- At the same time, move lever (F6) to symbol for hinge drilling pattern (F7).
- Make sure fixing pin (F5) snaps back to lock gearbox position!

4. Install drill bits

- Before installing drill bits, always disconnect the machine from its electrical source (unplugged).
- Main switch (E1) to set up position.
- Push drill bits all the way in to the chucks. Tighten set screw on flat spot of drill-bit shank only.
- Use a hex wrench to tighten the fastening screws. (4 mm)
- Insert cover cap (F3) into the empty chucks. This keeps set screws in place, and prevents wood chips from accumulating in chucks.
5. Check drilling depth adjustment

- Always place operation mode switch to set up position and disconnect the machine from its electrical source (unplugged) before performing any work on the drill heads, fences or stops.

- Hold-down switch (E3) to pos. off

- Move swing arm (F8) into upper position.

- Place door on the worktable clear of drill-head path.

- Move drilling depth gauge (F9) against adjustment screw (see drawing 6).

- Press and hold the drill / press stroke button (E2) to move head down.

- Slide door towards drill bits, and check if the cutting edges of the bits are even with top surface of the door panel.

- Release drill / press stroke button

6. Correcting drilling depth adjustment

- If the Cutting edges do not touch the door panel top, correct adjustment.

- Correct adjustment

  lower drilling depth:
  turn bolt (F10) clockwise
deeper drilling depth:
  turn bolt (F10) counter-clockwise

  (One turn on the depth adjustment bolt [E10] equals 1/16” (2 mm) adjustment.)

- Cycle drill / press stroke again, and check adjustment.

Important:

Swivelling out the drilling depth gauge (F9) results in a drilling depth of 1/2” (12.7 mm).
7. Drilling depth stop (F11)

Alternatively, drilling depth stops can be mounted to ensure a constant drilling depth. If these stops are mounted, the drilling depth will always be 1/2" (12.7 mm), regardless of the thickness of the workpiece.

Mounting the drilling depth stops:

- Before mounting the depth stops, disconnect the machine from its electrical source (unplugged).
- Main switch to setup position.
- Remove the drill bit.
- Push the drilling depth stops into the keyholes of the retaining ring (F12) until they won’t go any further and turn them by 90°.

Important:
The drill bit length must be set to 2-1/4" (57 mm) (see section F, item 2). The drilling depth adjuster (F10) bolt must not stop before the drilling depth is reached (turn it back by a sufficient amount).

8. Adjusting the stroke speed

Adjustment of the stroke speed is made by means of the knurled screw (F13) at the back of the cylinder.

- Faster: turn screw (F13) counter-clockwise
- Slower: turn screw (F13) clockwise
9. Checking the pneumatic brake

The pneumatic brake causes the drill head to slow down just before the drill bits penetrate the wood. **(This ensures chip-free holes and longer bit life.)**

- Always place operation mode switch to set up position and disconnect the machine from its electrical source (unplugged) before performing any work on the drill heads, fences, stops, or pneumatic brake.

- Main switch (E1) to **set up position.**

- Keep hands and fingers away from drill bits while the machine is power connected, even if it is not running.

- Swivel out the drilling depth gauge (F9).

- Press the drill / press stroke button (E2) and watch stroke.

10. Adjusting the pneumatic brake

To adjust the pneumatic brake, use the screw (F14) on the left side of the cylinder.

- **Hardwood:** turn screw (F14) clockwise for major deceleration of drill stroke.

- **Softwood:** turn screw (F14) counter-clockwise for minor deceleration of drill stroke.
11. Fencing System (D4) adjustments

- Always place operation mode switch to set up position and disconnect the machine from its electrical source (unplugged) before performing any work on the drill heads, fences, stops, or pneumatic break.

- Release both clamping levers (F15).

- Pull out the fixing pins (F16) on both sides and set the stop system (D4) to MB.

**Note:**

- The fencing system includes 5 fixing positions. (see point 12)

- Tighten the clamping levers (F15) on both sides.

12. Fixed positions of the stop system

- Always place operation mode switch to set up position and disconnect the machine from its electrical source (unplugged) before performing any work on the drill heads, fences, stops, or pneumatic break.

**Pos. 1 = 5 mm (3/16”)**
Lock the fixing bolts (F16) into place and pull the stop system forward.

**Pos. 2 = 9 mm (3/8”)**
Lock the fixing bolts (F16) into place and push the stop system backward.

**Pos. 3 = 20 mm (13/16”)**
Lock the fixing bolts (F16) into place and pull the stop system forward. Setting: ‘DP’

**Pos. 4 = 23.5 mm (15/16”)**
Lock the fixing bolts (F16) into place and push the stop system backward. Setting: ‘MB’

**Pos. 5 = 37 mm (1-7/16”)**
Lock the fixing bolts (F16) into place. Setting: ‘SY’
13. Setting the swivel stops (D7)

- Always place operation mode switch to set up position and disconnect the machine from it's electrical source (unplugged) before performing any work on the drill heads, fences, stops, or pneumatic break.

Set the swivel stops (D7) to the required dimension and secure them.

Note:

![The reading edge is on the inside of the swivel part!](image)

14. Place the door on the worktable and slide it until positioned at the stop.

Note:

For work pieces with grooves or radii (see illus.), the stop face can be increased by pulling the stop lock forward.
15. Adjust hold down clamps (F17)

- Loosen clamp screw (F18).
- Position clamp over panel surface.
- Position clamp over panel surface, no more than 6 mm (1/4").
- Tighten clamp screws (F18).
Hinge insertion

16. Mount insertion ram onto swing arm (F8) in upright position

- Place ram over fixing bolts (F20) on swing arm (F8) and tighten.
- Make sure that ram adjustment screws sit on fixing bolt.

17. Attaching the hinge on to the ram.
18. Drilling

**WARNING!**
To avoid serious injury, all items must be removed from the working area of the machine, except the workpiece! Keep your hands out of working area (A).

- Swivel out the drilling depth gauge (F9).
- Set the main switch (E1) to drill / press position.
- Set the hold-down switch (E3) to pos. off.
- Be sure to swivel the swing arm (F8) upward.
- When drilling, keep one hand against the outside edge of the door nearest to you (outside of zone A) and push it against the swivel stops - D7.
- Press the drill / press stroke button (E2) until the drilling depth is reached.
- Release the drill / press stroke button.

19. Check alignment of swing arm (F8)

- Move Swing Arm (F8) down to stop.
- Make sure the hinge is aligned with the drilled hole.
- There are two possibilities which could cause misalignment:
  - a) Swing arm (F8) is not vertical: adjust screw (F21).
  - b) Insertion ram is off center: adjust ram adjustment screws (F22).

**Note:**
If you press the drill / press stroke button (E2) by only a few mm (1/16"), the drilling and pressing unit will move down at a slower speed.
19. Hinge insertion

**WARNING!**

To avoid serious injury stay clear of drilling area and all pinch points (zone A) except the workpiece.

- When inserting hinge, keep one hand on the drill / press stroke button (E2) and the other hand on the swing arm (F8) or on the edge of the door nearest you until the hinge is totally pressed in (outside of zone A).

- Release drill / press stroke button.

- Move swing arm (F8) up.

- Release the hold-down clamps by briefly touching the hold-down switch (E3).
Installation of wing mounting plates

Installation of wing mounting plates with system screws

1. Necessary parts
   • Drill bits:
     - one 5 mm dia. rotating clockwise (G1) (marked black)
     - one 5 mm dia. rotating counter clockwise (G2) (marked orange)
   • Three cover caps (F3)
   • Cabinet side panel
   • Mounting plates with system screws

2. Drill-bit length
   (see section F - point 2)

3. Change drill pattern
   • Pull out fixing pin (F5) on drill head.
   • At the same time, move lever (F6) to symbol for line boring pattern (G3).
   • Make sure, fixing pin snaps back to lock gearbox position.

4. Install drill bits
   (see section F - point 4)

5. Check drilling depth adjustment
   (see section F - points 5/6/7)

6. Check pneumatic brake setting
   (see section F - point 8/9/10)
Installation of wing mounting plates

7. Setting the fencing system (D4)

- Always place operation mode switch to set up position and disconnect the machine from its electrical source (unplugged) before performing any work on the drill heads, fences, stops, or pneumatic break.

- Release both clamping levers (F15).

- Pull out both fixing pins (F16) and set the stop system (D4) to SY.

- Firmly tighten both clamping levers (F15).

This fixed setting provides for a drilling distance of 1-7/16" (37 mm).

8. Setting the swivel stops (D7)

- Always place operation mode switch to set up position and disconnect the machine from its electrical source (unplugged) before performing any work on the drill heads, fences, stops, or pneumatic break.

- Release the two clamping levers (D3) which hold the ruler in place.

- Lift up the fixing pin (D5) and move the ruler (D2) in the direction of the outer drill bit until the fixing pin (D5) locks into the outer drill hole of the indexing plate (D6).

- Firmly tighten clamping levers (D3).

Note:
This step compensates for the 0-point offset of the wing mounting plate (see illus. 8).
Installation of wing mounting plates

b) If the lower edge of the door is to be longer or shorter than the lower edge of the cabinet, the stops (D7) must be adjusted accordingly by the difference in dimension. In addition, the base ruler (D2) must be repositioned.

Positioning the stops and ruler:

- Relocate the stops by dimension (x).
- Release the two clamping levers (D3) which hold the ruler in place.
- Lift up the fixing pin (D5) and move the ruler (D2) in the direction of the outer drill bit until the fixing pin (D5) locks into the outer drill hole of the indexing plate (D6).

Note:

This step compensates for the 0-point offset of the wing mounting plate (see illus 8).

9. Place the cabinet side on the worktable and slide it to the stop (see section F - point 14)

10. Set the hold down clamp over panel surface, no more than 6 mm (1/4”), (see section F - point 15).

11. Drilling (see section F - point 18)

12. Releasing the hold-down clamps

- Briefly touch the hold-down switch (E3).
- Slide the cabinet side to the next stop.
Drilling of line patterns

1. Necessary parts
   - Drill bits: one 5 mm dia. rotating clockwise (H1) (marked black)
     two 5 mm dia. rotating counter clockwise (H2) (marked orange)
   - Two cover caps (F3)
   - Distance gauge for positioning stops (H3).
   - Cabinet side panel

2. Drill bit length
   (see section F - point 2)

3. Change drill pattern
   - Pull out fixing pin (F5) on drill head.
   - At the same time, move lever (F6) to symbol for line boring pattern (G3).
   - Make sure, fixing pin snaps back to lock gearbox position.

4. Install drill bits
   (see section F - point 4)

5. Check drilling depth adjustment
   (see section F - points 5/6/7)

6. Check pneumatic brake setting
   (see section F - points 8/9/10)
Drilling of line patterns

7. Adjust fencing system (D4)

- Always place operation mode switch to set up position and disconnect the machine from its electrical source (unplugged) before performing any work on the drill heads, fences, stops, or pneumatic brake.

- Release clamping levers (F15).

- Pull out locating pin (F16), and adjust fencing system (D4) to pos. SY.

- Tighten clamping levers (F15).

With this adjustment, the distance between fence and the centerline of the drill bits is 37 mm.

8. Adjust positioning stops (D7)

(see section F - point 13)

9. Line boring

- Use Distance Gauge (H3) to set additional positioning stops.

This will set a 3-3/4" (96 mm) distance between the stops and provide a consecutive 1-1/4" (32 mm) line boring pattern.
Drilling of line patterns

10. Slide cabinet side panel against the fence until positioned at the stop
(see section F - point 14)

11. Adjust hold down clamps (F17)
(see section F - point 15)

12. Drilling
(see section F - point 18)

13. Releasing hold down clamps
   • Briefly touch the down-hold switch (E3).
   • Position cabinet side panel to the next stop.
Service and maintenance

Maintenance

1. Maintenance

- During all maintenance operations, disconnect the machine from its electrical source (unplugged). Re-connect only for testing.

- Regularly remove drilling dust from the machine.

- Before every use of the machine, check the air filter unit (J1) for water which may accumulate in the filter unit. Empty the unit if necessary.

- Before every use of the machine, check the pneumatic lines and electrical lines for damage.

- The guide elements (J2) must be cleaned regularly with a dry cloth to remove dust. (Do not use cleaners or solvents)
2. Replacing a damaged clutch

The clutch is defective if:

- The drill bits get jammed in the workpiece while the motor fan (D9) keeps on rotating.

**Warning!**

Replace defective or damaged parts immediately! Use only original BLUM parts for replacement!

- Set main switch to **set up position**.

- When replacing a damaged clutch, machine must be disconnected from it's electrical power source and from it's compressed air supply and pressure released from machine (use filter bowl drain).

- Remove drill bit.

- Release the four lateral fastening bolts (J4) from the motor (requires about 4 complete turns).

- Lift the motor and rest it on the control system.

**Warning:**

Secure the motor against dropping!

- Remove the damping ring (J5).

- Remove the old clutch (J6).

- Mount the new clutch (J6) on the shaft (ensure correct position between clutch and shaft).

- Insert the damping ring (J5).

- Position the bottom part of the clutch ready to receive the motor.

- Place the motor on the bottom part of the clutch and make sure that it rests properly on the flange.

- Tighten the four lateral fastening bolts (J4).
3. Replacing the operation indicator lamp

- Disconnect the machine from the electrical supply.
- Set the main switch to set up position.
- Remove the lamp cover (J7) by releasing the screw.
- Remove the defective lamp (J8). (Push and turn counter-clockwise).
- Install a new lamp (J8). (Push and turn clockwise).
- Reattach the cover (J7) of the operation indicator lamp.
## Troubleshooting - What to do, if ...

### Fault during drilling

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause of fault</th>
<th>Eliminating fault</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Drilling depth is not reached</td>
<td>• Setting of depth adjustment bolt is wrong</td>
<td>• Check setting of the depth adjustment bolt</td>
<td>See chapter F F-10</td>
</tr>
<tr>
<td></td>
<td>• Drilling depth gauge swung in</td>
<td>• Swing out drilling depth gauge</td>
<td>See chapter F F-9</td>
</tr>
<tr>
<td></td>
<td>• Drill shorter than 2-1/4&quot; (57 mm)</td>
<td>• Adjust drill bit</td>
<td>See chapter F</td>
</tr>
<tr>
<td></td>
<td>• Drill bits not completely pushed into the chucks</td>
<td>• Clean chucks and push drill bit completely into the chuck</td>
<td>See chapter F</td>
</tr>
<tr>
<td></td>
<td>• Panel thickness is different than assumed thickness (e. g. 9/16&quot; (15 mm) instead of 5/8&quot; (16 mm))</td>
<td>• Check panel thickness</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• Machine hits an object during down stroke</td>
<td>• Remove object</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• Drill / press stroke button was released before drilling depth was reached</td>
<td>• Press the drill stroke button until the drilling depth is reached</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• Worktable lower than 15/16&quot; (24 mm)</td>
<td>• Build up the worktable to 15/16&quot; (24 mm) height</td>
<td>No comments</td>
</tr>
</tbody>
</table>
### Troubleshooting - What to do, if ...?

#### Fault during drilling

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause of fault</th>
<th>Eliminating fault</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled holes are off-center or hole position is incorrect</td>
<td>• Pneumatic brake is set too tight</td>
<td>• Slightly open the throttle valve</td>
<td>See chapter F</td>
</tr>
<tr>
<td></td>
<td>• The fence stops are set wrong</td>
<td>• Check position of fence stops and adjust if necessary</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• Ruler incorrectly set</td>
<td>• Adjust ruler</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• Wood chips are between the fence and the fence supports</td>
<td>• Remove wood chips and dirt from fence support</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• Fencing System incorrectly set</td>
<td>• Check setting and if necessary rectify</td>
<td>See chapter F</td>
</tr>
<tr>
<td></td>
<td>• The fence extension is not installed properly</td>
<td>• Check fence extension and fence extension supports</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Check the distance between the rulers</td>
<td>No comments</td>
</tr>
<tr>
<td>Gear box does not engage</td>
<td>• Allow fixing pin for drill head to engage</td>
<td>• Allow fixing pin for drill head to engage</td>
<td>See chapter F</td>
</tr>
<tr>
<td>Location pin does not engage into the locating plate</td>
<td>• Check position of the location pin</td>
<td>• Check position of the location pin</td>
<td>See chapter D and G</td>
</tr>
</tbody>
</table>

 gracefully spaced
## Troubleshooting - What to do, if ...?

### Fault during drilling

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause of fault</th>
<th>Eliminating fault</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>•Drilled holes too large, oval or ragged</td>
<td>•Drill bit diameter too large</td>
<td>•Check drill bit diameter</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>•Drill bit is bent</td>
<td>•Replace drill bit</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>•Drills bits are dull</td>
<td>•Regrind or replace drill bit</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>•Stroke speed too high for drilling</td>
<td>•Adjust stroke speed</td>
<td>See chapter F</td>
</tr>
<tr>
<td></td>
<td>•The panel was drilled through completely</td>
<td>•Adjust drilling depth</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>•Gearbox shafts are bent</td>
<td>•Replace gearbox</td>
<td>No comments</td>
</tr>
<tr>
<td>•Drill bits get stuck in the panel</td>
<td>•Panel material other than stated in the intended use of this machine was used</td>
<td>•Only panels of wood, particle board or laminated particle board are to be used</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>•Down stroke speed during drilling is too fast</td>
<td>•Adjust down stroke brake properly</td>
<td>See chapter F</td>
</tr>
<tr>
<td></td>
<td>•The clutch is damaged (the drill bits get jammed in the workpiece while the motor fan keeps on rotating)</td>
<td>•Replace defective clutch</td>
<td>See chapter I</td>
</tr>
</tbody>
</table>
### Fault during drilling

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause of fault</th>
<th>Eliminating fault</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Drill bits are dull</td>
<td>• Replace or resharpen drill bits</td>
<td></td>
<td>No comments</td>
</tr>
<tr>
<td>• Wrong motor rotation</td>
<td>• Correct the motor rotation</td>
<td></td>
<td>See chapter D</td>
</tr>
<tr>
<td>• Wrong handed drill bits are used</td>
<td>• Install left hand drill bits into chucks marked in orange and right hand drill bits into chucks marked in black</td>
<td></td>
<td>No comments</td>
</tr>
<tr>
<td>• Motor connected to wrong voltage</td>
<td>• Check the main voltage and compare with motor data. If voltage wrong, replace machine</td>
<td></td>
<td>See electrical schematic</td>
</tr>
<tr>
<td>• Drill bit cannot be inserted in to the chuck.</td>
<td>• Drill chuck very dirty</td>
<td>• Clean drill chuck - Use cover cap!</td>
<td>No comments</td>
</tr>
<tr>
<td>• Drill shank diameter too large</td>
<td></td>
<td>• Replace drill bit</td>
<td>No comments</td>
</tr>
</tbody>
</table>
## Fault during Hinge insertion

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause of fault</th>
<th>Eliminating fault</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinges or fittings cannot be inserted at all, or can only be inserted with difficulties</td>
<td>• Air pressure is not sufficient</td>
<td>• Adjust air pressure to 6 bar (80-100 psi)</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• The insertion ram or the swing arm is hitting an object</td>
<td>• Remove object from path of insertion ram or swing arm</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• The surface of the panel is too hard</td>
<td>• Countersink holes</td>
<td>Use counter-sink bit</td>
</tr>
<tr>
<td></td>
<td>• The drilling depth is not deep enough</td>
<td>• See point: Wrong drilling depth</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• The diameter of the drill bits is too small</td>
<td>• Check drill bits and replace if necessary</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• The insertion ram is off-set or installed wrong</td>
<td>• Adjust insertion ram</td>
<td>See section F</td>
</tr>
<tr>
<td></td>
<td>• The panel moved on the work table before the insertion cycle</td>
<td>• Adjust hold-down clamps so panel does not move during the operation</td>
<td>See section F</td>
</tr>
<tr>
<td></td>
<td>• Shavings in holes</td>
<td>• Check the shavings air jet</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• Insertion ram or swing arm is displaced or twisted</td>
<td>• Adjust insertion ram or swing arm</td>
<td>See section F</td>
</tr>
</tbody>
</table>

---

Fault Cause of fault Eliminating fault Remarks

• Air pressure is not sufficient • Adjust air pressure to 6 bar (80-100 psi) No comments

• The insertion ram or the swing arm is hitting an object • Remove object from path of insertion ram or swing arm No comments

• The surface of the panel is too hard • Countersink holes Use counter-sink bit

• The drilling depth is not deep enough • See point: Wrong drilling depth No comments

• The diameter of the drill bits is too small • Check drill bits and replace if necessary No comments

• The insertion ram is off-set or installed wrong • Adjust insertion ram See section F

• The panel moved on the work table before the insertion cycle • Adjust hold-down clamps so panel does not move during the operation See section F

• Shavings in holes • Check the shavings air jet • drill deeper, if possible No comments

• Insertion ram or swing arm is displaced or twisted • Adjust insertion ram or swing arm See section F
# Troubleshooting - What to do, if ...?

## Functional fault

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause of fault</th>
<th>Eliminating fault</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>•Motor does not run</td>
<td>•Machine not connected to electrical source</td>
<td>•Connect machine to electrical source</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>•Machine not connected to air supply</td>
<td>•Connect machine to air supply</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>•Circuit breaker has been thrown or fuse has expired</td>
<td>•Switch on or replace fuse</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>•Fuse under the control panel has expired</td>
<td>•Repair by authorized electrician or Blum repair center</td>
<td>See electrical schematic</td>
</tr>
<tr>
<td></td>
<td>•Switch not on</td>
<td>•Main switch on Pos.1</td>
<td>See section E</td>
</tr>
<tr>
<td></td>
<td>•Swing arm is moved down</td>
<td>•Move swing arm up</td>
<td>See section F</td>
</tr>
<tr>
<td></td>
<td>•Motor connected to wrong voltage</td>
<td>•Check main voltage and compare with motor data. Replace machine if voltage is wrong</td>
<td>See electrical schematic</td>
</tr>
<tr>
<td></td>
<td>•Motor defective</td>
<td>•Replace motor by authorized electrician or return to Blum repair center</td>
<td>No comments</td>
</tr>
</tbody>
</table>
## Troubleshooting - What to do, if …?

### Functional fault

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause of fault</th>
<th>Eliminating fault</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Motor overheats</td>
<td>• Motor connected to wrong voltage</td>
<td>• Check main voltage and compare with motor data. If voltage is wrong, replace machine</td>
<td>See electrical schematic</td>
</tr>
<tr>
<td></td>
<td>• Drilling in hard wood with too great a stroke speed</td>
<td>• Adjust stroke speed</td>
<td>See section F</td>
</tr>
<tr>
<td></td>
<td>• Motor is so dusty that cooling is not possible</td>
<td>• Clean dust off machine</td>
<td>No comments</td>
</tr>
<tr>
<td>• Machine does not cycle when the drill / press stroke button is activated</td>
<td>• Machine not connected to air supply</td>
<td>• Connect machine to air supply</td>
<td>See section D</td>
</tr>
<tr>
<td></td>
<td>• Air pressure not sufficient</td>
<td>• Adjust air pressure (min 80 psi to max 100 psi)</td>
<td>See section D</td>
</tr>
<tr>
<td></td>
<td>• Hose has a kink in it</td>
<td>• Examine air hose</td>
<td>No comments</td>
</tr>
<tr>
<td></td>
<td>• Throttle valve of the pneumatic brake is closed</td>
<td>• Adjust pneumatic brake</td>
<td>See section F</td>
</tr>
</tbody>
</table>
### Troubleshooting - What to do, if ...?

#### Functional fault

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause of fault</th>
<th>Eliminating fault</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Drill / press stroke</td>
<td>• Drill / press stroke valve defect</td>
<td>• Repair by Blum repair center</td>
<td>No comments</td>
</tr>
<tr>
<td>• Cylinder defect</td>
<td>• Cylinder defect</td>
<td>• Repair by Blum repair center</td>
<td>No comments</td>
</tr>
<tr>
<td>• Hold-down clamp malfunctions</td>
<td>• Wrong switch position</td>
<td>• Check switch position</td>
<td>See section E</td>
</tr>
<tr>
<td>• Hold-down clamp valve defect</td>
<td>• Hold-down clamp valve defect</td>
<td>• Repair by Blum repair center</td>
<td>No comments</td>
</tr>
<tr>
<td>• Operation indicator lamp</td>
<td>• Operation indicator lamp defective</td>
<td>• Replacing the lamp</td>
<td>See section J</td>
</tr>
<tr>
<td>• Operation indicator lamp</td>
<td>• Control circuit- fuse defective</td>
<td>• Replace control circuit fuse by an authorised electrician only</td>
<td>No comments</td>
</tr>
<tr>
<td>• Air filter connection leaks</td>
<td>• Angle screw does not seal</td>
<td>• Replace angle screw or use sealing agent</td>
<td>No comments</td>
</tr>
<tr>
<td>• Shavings air jet is too</td>
<td>• Air hose is kinked or there is a leaky connection</td>
<td>• Replace the air hose</td>
<td>No comments</td>
</tr>
<tr>
<td>weak</td>
<td>somewhere</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Shavings air jet is</td>
<td>• Shavings air jet is misadjusted</td>
<td>• Reset shavings air jet by turning the air hose</td>
<td>No comments</td>
</tr>
<tr>
<td>misadjusted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Gearbox is defective</td>
<td>• Bearings, gears or spindles are defective</td>
<td>• Replace gearbox</td>
<td>No comments</td>
</tr>
</tbody>
</table>
Do-it-yourself-worktable

- Use plywood or laminated wood for the worktable!
- Use M8 bolts with nuts and washers to secure the worktable, or order the Blum mounting set MZA.1002.
Appendix

Limited warranty

The Blum MINIPRESS has been manufactured using the highest quality materials to provide long lasting performance.

Rigorous quality controls and a final inspection ensures that each machine is delivered in good working condition. These quality control measures enable Blum to offer this one year limited warranty on the machine, starting with the date of delivery. (Please return the enclosed „Warranty Reply Card“ to our address).

The Blum MINIPRESS is warranted to be free of defects in materials and workmanship for a period of one year from the date of purchase. This warranty is in lieu of any other warranties expressed or implied.

This warranty does not include any implied warranties of fitness or merchantability, such warranties are specifically excluded.

In no event shall Blum be liable for any incidental or consequential damages, damage in transportation, damage from misuse or improper handling of machine, lost production time or materials, parts which are subject to normal wear (such as drill bits), or for any other damages directly or indirectly arising from the sale, exept as provided specifically in this warranty.

Some portions of this warranty may not be applicable due to provisions of State Law. The non-applicability of any portion of this warranty shall not affect the remaining terms and conditions of the warranty.

Any damages under this warranty shall be limited to a maximum of the purchase price of the machine.

Should any defect be found in the machine, please submit to Blum, in writing, the reference number, the serial number, and the name of the distributor from whom the machine was purchased. Replacement parts included under this warranty will be furnished, free-of-charge.

This warranty is also subject to the specific terms and conditions set forth in the purchase agreement for this equipment. The warranty language in the purchase agreement shall govern in the event of any difference in terms.
Technical Data

1. General data

- Voltage: See type plate
- Power supply: See type plate
- Connected load motor: 1.1 kW
- rpm: See type plate
- Compressed air: 80 - 100 psi
- Air consumption: 1.5 liters per cycle

Important:
Provide a 16 A backup fuse breaker.

2. Weight and measurements

- Weight: $m = 81$ lbs (37 kg)
- Dimensions:
  - $H = 27-15/16"$ (710 mm)
  - $W = 24"$ (610 mm)
  - $D = 29-15/16"$ (760 mm)

3. Maximum thickness of workpiece

- Drilling only: 1-3/4" (45 mm)
- Insertion of fittings depending on fitting:
  - max. 13/16" (20 mm)
  - max. 1-1/4" (32 mm)

4. Maximum drilling distance

- Drilling distance center spindle:
  - (-3/16") - 2-1/2" (-5mm) - 64 mm

5. Maximum drilling diameter

- Maximum drilling diameter: 1-3/8" (35 mm)

6. Accessories

- For accessories see BLUM catalog
Appendix
MINIPRESS MP FA 1x220V

SCHALTSCHEMA / CIRCUIT DIAGRAM

MINIPRESS MP FA 1x220V

SCHÉMA ÉLECTRIQUE / ESQUEMA DE CONEXIONES

SCHEMA ELETTRICO / KYTKENTÄKAAVIO

File: Schema MP FA 1x220V CSA-ATB.p65

File: MP FA 1x220V-ATB.FH9

S1 690V IEC, 600V UL/CSA 4552380
F1 250V, Ø5x20mm, 1,6AT 1788700
1S2 250V/6A, G1/4" 3988890
H1 230VAC 2456160
K1 400V (max.690V), 12A 2456300
M1 1,1kW, 220V/60Hz 3244009
C 25µF, 400VDB 2649801

1x220V 60Hz, S6-60%
6.5A, 1.48HP, 3420RPM
C 25µF 400VDB

Id. Nr. 632.075.0 Printed in Austria Schema MP FA 1x220V CSA-ATB/07.04-tg
BAU0005694594 IDX00