

## **Mounting instruction**

### **operating and maintenance instructions for**

### **Malt mills *Maltman 55 400V and Maltman 75 230V***

#### Installation instructions

1. To mount the small squeezer wall-mounted, 2 machine screws M8 x 25 mm horizontally at a distance of 200 mm at the desired height are inserted into the metal in appropriate metal expansion dowels. The distance between the screw heads and the wall should be approx. 10 mm in the pre-screwed condition. For lightweight or wooden walls, use large washer washers on the back of the wall to secure the machine.

2. The protruding screw heads of the mounting screws are inserted through the keyhole-shaped mounting holes of the machine housing and screwed after lowering the housing in the slot-like screw recesses with a ring or open-end wrench SW 13.

3. The motor protection switch installed on the drive motor has an integrated device plug with phase inverter. The switches for AC motors have a 220 V socket, the switches for three-phase motors a 5-pin 16 A CEE connection.

4. Please have the electrical installation of the machine carried out by your electrician!

5. The machine is not explosion-proof and must not be operated in potentially explosive areas.

6. The machine is not suitable for outdoor use, unprotected against rain and moisture. The most serious damage to the electrical components, the rollers and bearings would be the result.

For this reason, cleaning the machine with water, in whatever form, is not allowed.

7. Make sure the direction of rotation of the motor is correct. It is indicated by a red directional arrow on the engine. The control of the correct direction of rotation of the machine is also through to recognize the control of the roller rotation direction. The rollers must converge towards the center from above.

In the case of the wrong direction of rotation of a three-phase motor, the direction of rotation is effected by reversing the polarity of the installed phase inverter in the device plug. (Using a

screwdriver, insert a screwdriver into the slot of the spring-loaded black base plate of two pins and turn the plate 180 ° with the pins - the motor will be reversed and will now turn in the right direction.)

8. The machine should always be installed at the operating height to facilitate care and maintenance.

### Operating manual

1. The machine may only be operated by trained persons with a minimum age of 14 years.
2. All maintenance-related work and repairs to the grain crusher may only be carried out with the mains plug disconnected.
3. The machine may only be put into operation with the funnel attached and screwed in and the wedge belt guard closed. The cleaning and inspection flap located at the outlet of the machine must also be screwed on.
4. The machine cannot start under load, e.g. when the hopper is full or while there is still grain between the rollers.
5. Order of machine operation:
  - Start the engine with the hopper empty and the inlet valve closed.
  - Feed grain over the funnel and open the slide.
  - Before completing work, let the machine run empty and close the inlet slide
  - After processing the grain remaining on the rollers, switch off the engine.

### 6. Adjusting the nip:

If a change of the nip is desired, proceed as follows:

The narrowing or expansion of the nip is done by turning the two eccentric Verstellflansche. For stepless adjustment of the crimping gap, you need the included cranked ring spanner with 19 mm spanner width. The bearing flange located on the left and right of the machine housing is twisted after loosening the thumbscrew. The two additional fixing screws on the bearing flange are pre-tensioned by underlying disc springs and must not be unscrewed!

The yellow marking points on the right and left of the machine housing indicate the degree of crushing on the two scales on the bearing flanges underneath.

approx. 4 = narrowest nip; 10 = widest nip.

Attention: The marking points on both sides of the machine must point to the same scale value after adjustment, as otherwise bearing damage can occur and the grain is not evenly squeezed.

After twisting the bearing flanges, tighten the two thumbscrews to lock the flanges.

### Maintenance manual

1. Caution Risk of crushing! When carrying out maintenance work on the pinch rollers and the V-belt drive, it is essential to first disconnect the electrical supply line to the machine. Otherwise there is the greatest risk of crushing by the rollers and the V-belt drive in the event of unintentional start-up of the machine.

2. IMPORTANT: Ensure adequate V-belt tension. The first check of the V-belt tension should take place after approx. 10 operating hours, further examinations as required. The V-belt tension is increased by screwing in the setscrew on the motor rocker, which is the metal plate to which the motor is screwed.

3. A significant factor of wear of the nip rollers are foreign bodies, which often roll on the rollers for a long time if there is insufficient maintenance and also hinder the grain feed.

When detecting this malfunction, the spring-loaded handle of the foreign-body ejector on the right-hand side of the machine should be pulled while the machine is running.

Smaller foreign objects roll off the running rollers by opening the foreign object ejector.

Larger impurities are removed from the rolls with the machine disconnected and disconnected from the power supply, with the hopper removed.

If clogging or feeding problems occur when squeezing unpurified grain, separate the hopper bracket plate, including hopper, from the machine housing. Use a brush or dry cleaning cloth to remove the dirt and grain residues in the upper part of the machine.

The same applies to larger accumulations of dust and grain residues in the lower machine housing, in the belt protection box, on the cooling fins and on the fan cowl grille of the engine. Better accessibility of the lower machine housing is achieved by unscrewing the cleaning and inspection flap on the machine spout.

Before restarting the machine, be sure to re-screw the hopper with the console and the lower cleaning and inspection flap on the machine outlet.

4. Another important point of machine maintenance is the removal of ferrous foreign bodies from the magnet in the hopper outlet. For this purpose, it is necessary that the hopper is emptied before ending the squeezing and closing of the inlet slide. The adhering with insufficient maintenance over a long period of foreign objects can be rinsed by the grain flow from the magnet and thus lead to blockage or damage to the rollers. Foreign objects can easily be removed from the funnel magnet when the machine is stopped and the funnel is empty.

5. Blocking the squeezing rollers:

When blocking the squeegee rollers by a foreign object, the roller driven by the motor must be turned counter to the direction of operation when the machine is switched off (observe the safety information "Danger of crushing" in paragraph 1 of the Maintenance Manual). Turned "counterclockwise", possibly by inserting a mounting lever in the holes of the large V-belt pulley.

6. After completion of the maintenance work and before restarting the machine, the funnel, the V-belt protection box and the cleaning and inspection flap must be screwed on again!