



DOUGH EXTRUDER

OPERATION'S MANUAL



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GENERAL SAFETY INSTRUCTIONS

WARNING: To reduce the risk of injury, read all instructions properly.

Failure to follow the instructions listed below can cause electric shock, fire, serious injuries, mutilation and/or damage to the equipment.

A. SAFETY IN THE WORK AREA.

- * Keep the work area clean and lit. Crowded or dark areas lead to accidents.
- * Keep children, customers, and non-company personnel away from the electrical and mechanical operation area of the equipment.
- * It is recommended to have a minimum space of one meter or three feet around the machine for safety measure and to optimize work.

B. ELECTRICAL SAFETY.

- * Machinery connections must be adapted to the power outlets.
- * Do not use adapters for the switches: since you run the risk of receiving an electric shock.
- * Do not expose the switches and/or electrical connections to rain or humidity. If water enters these elements, there is a risk that they will break down or suffer an electric shock.
- * Use cable in a single piece, if there are joints in the connections these can produce a short circuit.
- * Do not expose cables or electrical connections to heat, oil, sharp edges, or moving parts, as damaged cables can cause electric shock or short circuit.

C. PERSONAL SAFETY.

- * Do not operate the equipment if you are tired, under the influence of alcohol or drugs.
- * Wear appropriate clothing, do not wear loose clothing, or necklaces, earrings, watches, if you have long hair wear a tie to keep it up.
- * Do not climb on the structure of the machine for any reason, falls or injuries may occur.
- * Avoid using headphones, cell phones or any other equipment that works as a distraction to the operator.
- * Make correct use of personal protective equipment if any maintenance is to be carried out on the machine.
- * If any change is made to the model or component of the equipment, be it electrical or mechanical related, it must be de-energized and stop the machine completely to avoid accidents.
- * Keep limbs away from all moving parts.

CAUTION

The following symbols indicate the safety measures that must be taken before and after starting up the equipment.



ELECTRICAL RISK In which you can suffer electric shocks, if you do not comply with the electrical safety provisions.



GEAR RISK Keep your hands away from the chains and gears of the machine.



CRUSHING HAZARD Keep hands away from the mixer paddles.



AUGER HAZARD Keep hands away from extruder auger

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ELECTRICAL INSTALLATION

Verify that the electrical connection is 110v. Inspect that there are no short circuits, no loose or bare wires. Verify that all cables are isolated and without contact, check contactors and switches in good condition. It is recommended to use a 12 gauge cable for the installation.

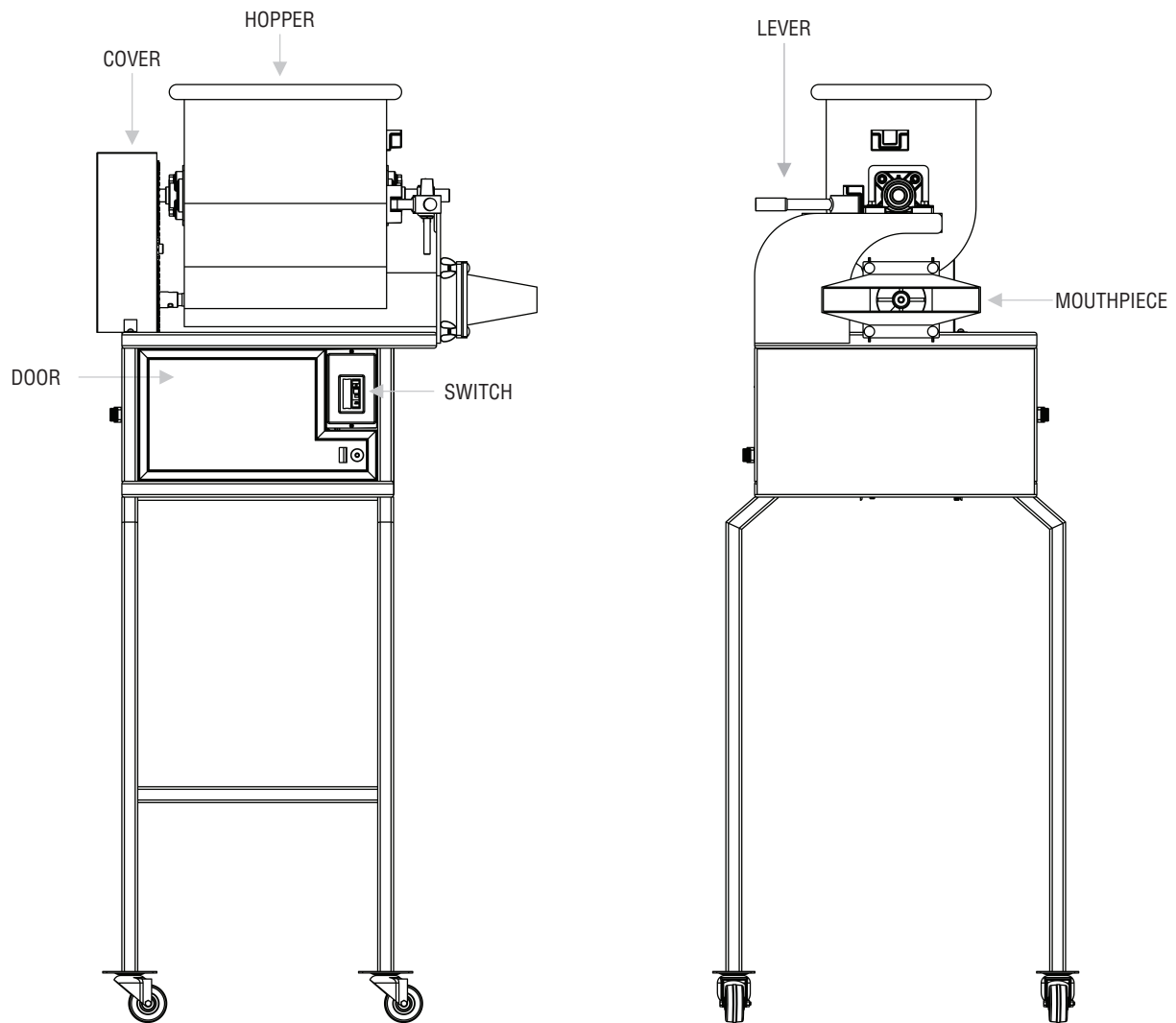


ELECTRICAL INSTALLATION	
A	110v electrical installation
B	12 gauge cable (conduit cable)

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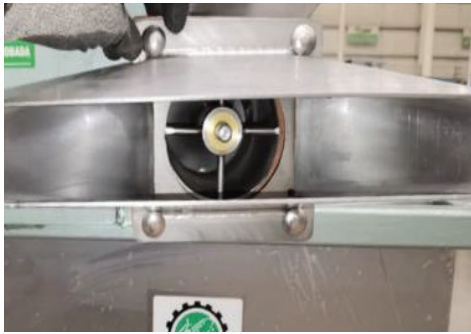
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COMPONENTS

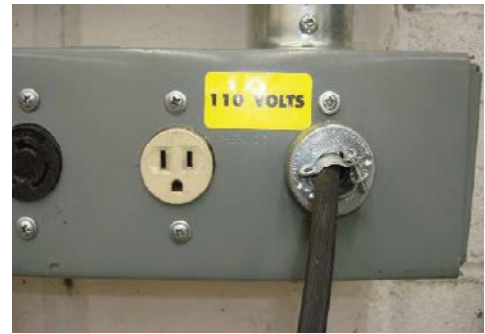


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- 1** | Inspect that the 4 nozzle screws are tight



- 2** | Connect extruder cable to 110v outlet



- 3** | Before turning on the extruder, check that it is clean and without dough residue.



- 4** | Activate switch to turn on equipment



- 5** | Put dough in the extruder hopper



- 6** | Check dough curtain (consistency)



- 7** | When production is finished, press switch to turn off equipment

CLEANING PROCEDURE

WARNING: The cleaning of the extruder must be carried out with the machine in total stop and de-energized to avoid accidents such as crushing or electric shocks.

CLEANING OF DOUGH EXTRUDER

1. Remove excess dough from the hopper.
2. Clean water by moistening a rag and gently wiping the pot.
3. Carry out this action until the hopper is free of any dough residue.

MAINTENANCE

Clean the machine before and after using it.

The duration of the spare parts will depend on the preventive maintenance and care taken to the machine.

The more frequently this maintenance is done, the parts will have a longer life.

LUBRICATION

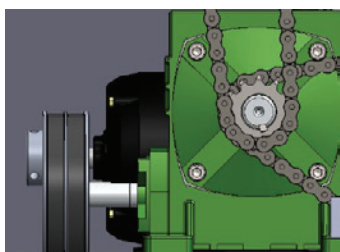
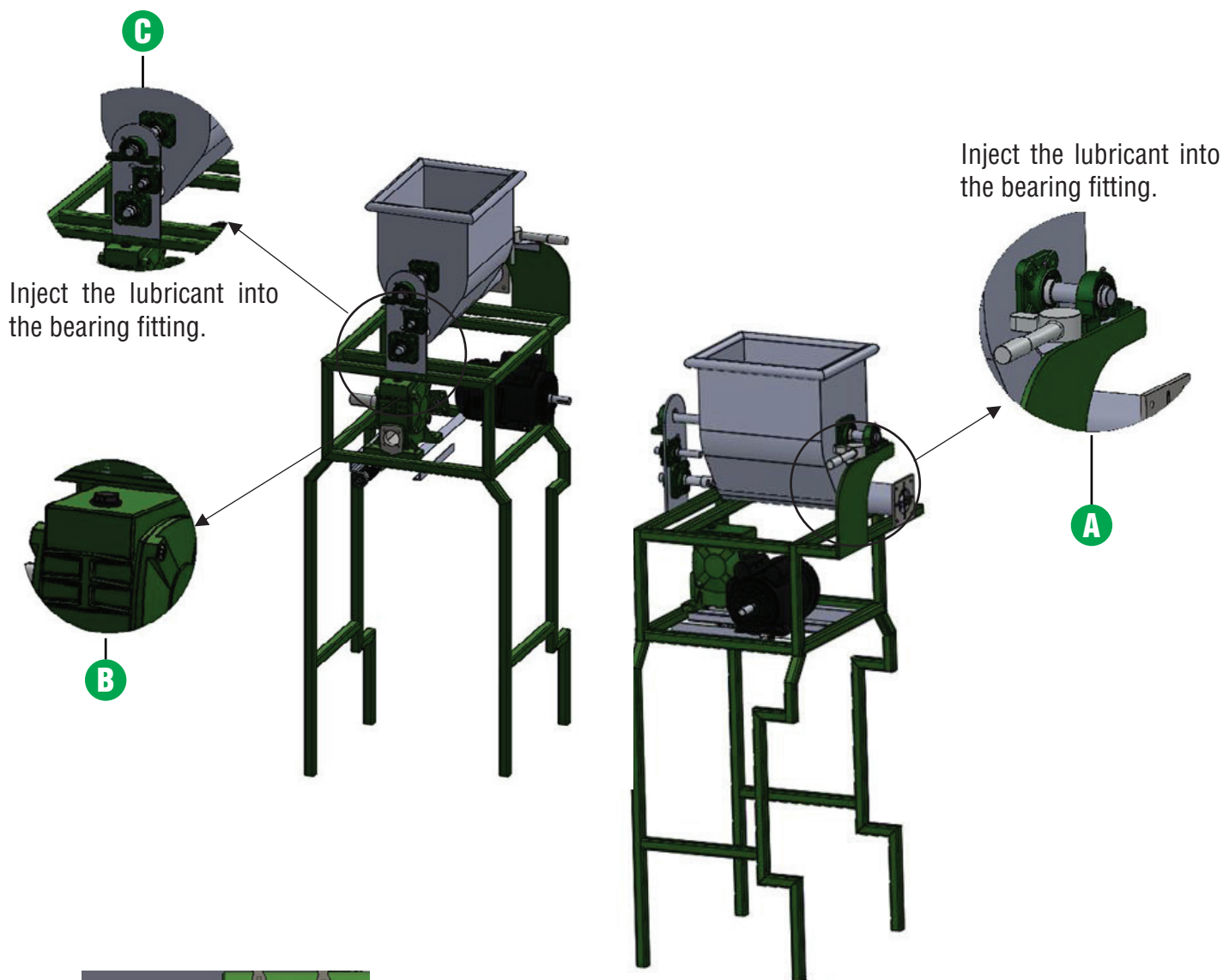
The following table shows the parts, the type of lubricant, and the frequency with which the machines and their parts must be lubricated.

PART	LUBRICANT	PERIOD
Chain	SAE 40 Oil	3 times per week
Bearings	BAT 3 Grease	Every 3 days
Gears	BAT 3 Grease	Every week
Reducer	SAE 80/90 mineral oil	Every 3 months

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The following figures show the schematic location of the parts that require lubrication.



It is recommended to change the oil every three months. The used oil must be drained and 400 ml of new SAE 80/90 oil must be poured.

The following table shows the type of lubricant to place in all parts of the machine.

LUBRICANT
A) SAE 40 oil
B) SAE 80/90 mineral oil
C) BAT 3 Grease





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