

fiorentini

TX020

Mini - Tractor



USER MANUAL

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INTRODUCTION

THIS KIND OF MACHINE ALLOWS TO DRAW, WITHOUT DIFFICULT, TROLLEYS UP TO 2500 kg.

YOU CAN REACH THE BEST PERFORMANCE USING THE MACHINE IN A PROPER WAY AND TAKING CARE OF IT.

USE THE MACHINE ONLY TO DRAW TROLLEYS.

PLEASE, READ CAREFULLY THIS MANUAL AND KEEP IT FOR ALL NEEDS.

MACHINE DELIVERY

AS SOON AS THE MACHINE IS DELIVERED, PLEASE CHECK THAT THERE IS NOT ANY DAMAGE DUE TO TRANSPORT.

IN CASE OF DAMAGE OR MISSING PARTS, PLEASE ADVISE IMMEDIATELY THE MANUFACTURER.

TECHNICAL DESCRIPTION

| | |
|---------------------------------|----------------------|
| Length | 1640 mm |
| Width | 875 mm |
| Height | 1110 mm |
| Wheels Number | 3 |
| Wheels Diameter | 400 mm. |
| Traction | electric |
| Weight (without batteries) | 296 kg. |
| Battery Room Dimensions (LxWxH) | 520x610x420 mm. |
| Battery | 4x6V – 330A |
| Motor | 36V, 2kW 2400 rpm |
| Brake | hydraulic lever |
| Parking Brake | lever |
| Max. Speed Forward | 12 km/h |
| Turning radius | 1650 mm |
| Noise | 60 db |

GENERAL INFORMATION

MANUFACTURER RESPONSIBILITY

The manufacturer - ING. O. FIORENTINI – is not responsible for any damage due to the no-acquaintance or no-fulfilment of the instructions of this manual. The same applies to the execution of changes, modification, and/or the installation of not authorized accessories.

In particular, ING. O. FIORENTINI is not responsible for any damage caused by:

- Natural calamity
- Erroneous manoeuvres
- No maintenance


Furthermore, the manufacturer is not responsible for any intervention not performed by ING. O. FIORENTINI technicians.

INTERVENTION REQUEST

Intervention should be made after an accurate analysis of the damage and its causes. In any case when it is necessary to give the following information to the authorized Assistance Centre:

- Machine model;
- Serial number;
- A detailed damage description;
- Check made;
- Performed adjustments and their results;
- Any other information considered useful for this purpose;
- Customer address.



| | | | |
|------------------------------------------------------------|------|------------------|--------------------------------------------------------------------------------------|
| Ing. O. Fiorentini S.r.l. 50030 Piancaldoli (FI) | | MADE IN ITALY |  |
| Mod. TX020 | S.N. | 2007 | |
| V 24 | Hz. | | |
| Kg 296 | A | W | 2000 |

TRANSPORT

PACKED MACHINE HANDLING

The machine is packed in a case fixed on a special pallet. On the case it is indicated the gravity centre with a black arrow. The pallet must be forked in the middle of the side with the black arrow in order to avoid overturning. The case should be handled with extreme caution. It is forbidden to lay cases on each other.



Case Dimensions (LxWxH): 1670x900x1200 mm.

HOW TO UNPACK THE MACHINE

1. Cut the plastic bands. Pay attention to the spring back.
2. Remove the clips that fix the carton to the pallet.
3. If the case is made of plywood, remove the clips from the each side and the base.
4. Remove the plastic bands that hold the machine.
5. Place the machine on the ground.

UNPACKED MACHINE HANDLING

1. Check the machine and install the batteries if they are not installed.
2. If the machine has to be handled for a short transport, disconnect the battery cables. It is recommended to pack the machine again in its original case if it has to be handled for a longer transport.

GENERAL RULES FOR A MACHINE PROPER USE

- The vehicle is designed for one person, so do not let anybody get on the vehicle except the driver.
- Do not modify the machine.
- Drive the vehicle in a proper way and in a proper position.
- Drive slowly on wet surfaces.
- Keep the vehicle and trolleys always under control.
- Make sure that the load weight is not higher than kg. 2500.
- Keep a safety distance from ramps and platforms.
- Keep a proper safety distance according to the speed.
- Do not park the vehicle in front of corridors, fire equipment, etc. Follow the street code both inside out outside buildings if any other rules are not indicated.
- When the vehicle is left unattended, switch off the machine, take away the key and put on the hand brake.

PREPARATION TO WORK

REQUIRED OPERATOR'S QUALITIES

Only trained people in load transport are authorized to drive the mini – tractor. Operators must be qualified and must not have visual, audiometric, physical and/or mental problems in order to avoid accidents while driving the vehicle.

MACHINE CONTROL

The machine must be correctly maintained.

Every time an operator works with the mini – tractor, i.e. after a night, he must carry out the following procedures:

- check visually possible damages in the machine structure;
- check the tyres pressure;
- check if the battery is charged;
- check if the electric system has been damaged. They are indicated on the control format report.
- check the brakes forward and reverse;
- check the starting;
- check the turn of the wheel up to the limit with a low speed.

In case of anomaly or a bad functioning, stop the vehicle and call an ING. O. FIORENTINI technician.

BATTERY RECHARGE

The machine is fed by a battery, which is not supplied by ING. O. FIORENTINI. On the dashboard there is a five-green-led-display that shows the battery charge level. The battery is completely low when there is only one flashing red led switched on.

In order to reach a long battery life and a good performance of the vehicle, it is necessary to recharge the battery before it is completely low. After a short period of such switching on the performance of the machine reduces automatically to safeguard of the battery. Bring the mini – tractor to a well fan cooled place for the battery recharge. When recharging the battery, keep the mini-tractor away from flames and sparks.

CAUTION: the batteries continuously release highly explosive gasses; that highly increase during the battery recharge. Therefore, batteries have to be kept away from flames, sparks and cigarettes.

The mini-tractor is supplied with a battery charger. It is automatic and it is equipped with an electronic device that analyses the battery charge status. It is sufficient to connect the battery charger to the socket, which must be adequate to the proprieties of the battery charger.

HOW TO CHECK THE MACHINE

PERIODICAL CONTROLS

It is periodically necessary to do the following checks without loads:

- accelerate until you gradually reach the maximum speed;
- check the brakes;
- check the turn of the wheel in both directions.

If one of the above test is not satisfactory, please immediately advise an ING. O. FIORENTINI technician.

INACTIVITY PERIODS

If the mini-tractor is not used for two or three weeks, it is necessary to disconnect the batteries, lift the tractor from the ground and place the frame on shims.

CAUTION: please remember that the batteries discharge even if they are not working. Therefore they have to be recharged about every twenty days.

TYRE PRESSURE

At regular intervals, about every fortnight, check the tyre pressure. The pressure must be indicatively 4 bar in rear tyres and 3 bar in the front tyre.

Change the tyre in case of puncture or anomalous deflation.

CAUTION: a low pressure can provoke a loss of stability and consequently an overturning.

HOW TO CLEAN THE MACHINE

The mini-tractor can be used outside and therefore dirt. It is necessary to check that there are not any mud crusts or anything else preventing the normal use of the tie bars and levers of the braking system. Remove them without using water jets, that could seep into the motor and damage it. Do not clean the vehicle using hydro cleaners or water jets; the electric and electronic system are not watertight and could therefore be damaged.

CONTROLS AND FUNCTIONING

The mini-tractor controls are arranged and designed to allow a perfect machine functioning. Before using the mini-tractor for the first time, please make confident with all the controls. Read the following instructions carefully and with the key on OFF test the various controls.

Steering Wheel: the steering wheel and the steering system are similar to the motor vehicle ones. To turn right, turn the steering wheel to the right (clockwise); to turn left, turn the steering wheel to the left (counterclockwise). This vehicle has a minimum steering radius and a low ratio. These are ideal properties for low speed manoeuvres, but the operator must pay a greater attention while driving faster. It is possible that one rear tyre lose contact with the ground if the turn of the wheel is too fast.

Safety Switch: the seat is equipped with a micro switch that, feeling the presence of the operator, starts the electric circuit.

Gear Selector: the forward/reverse lever gear selector is placed on the left of the dashboard. The central OFF position is neutral.

Ignition Key: the mini-tractor is equipped with a starting key on the right of the dashboard. The key is locked in the switch when it is on the position 'ON'.

Battery Charger Indicator: see page 8.
Optional: the mini-tractor can be provided with a count hours that shows the battery duration in hours.

Acoustic Horn: the acoustic horn works by pushing the gear selector to the right.



Lights Switch: it is on the right of the dashboard next to the flashing light switch and checks the front and tail working and position lights.

Flashing Light Switch: it is on the right of the dashboard next to the lights switch and controls the switch on of the optional flashing light.

Steering Wheel: its position is adjustable thanks to a lever.

Brake Pedal: it is placed on the left of the accelerator. It is similar in use and characteristics to the motor vehicles one. Releasing the pedal the braking action is interrupted. The pedal even controls the switching on of the tail stop lights.



Accelerator Pedal: it is on the right of the brake pedal. This pedal has been designed to be operated with the right foot as well as the motor vehicles one.

Parking Brake: it is placed on the right of the driver. The hand brake lever must be used every time the operator stops the mini-tractor. The parking brake can stop the vehicle and the load on plane surfaces or on slight slopes.

Emergency Button: push it in emergency situations. It stops the machine power supply. When the vehicle is parked the operator must push it.



Tow Hook: the mini-tractor is equipped with a hook where the truck towing arm has to be placed.
Hooking the trolley: it is necessary to remove the pivot from its support, get the vehicle closer to the trolley, put the trolley arm and replace the pivot.

CAUTION: if it is necessary to modify the tow hook, never install it at a height higher than the normal one.

Battery Connection Plug: it is inside the vehicle body. Put the plug into the socket until the battery is completely charged.



Serial Number: _____

Shipment Date: _____

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“THE BEST IN FLOOR MACHINES”

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