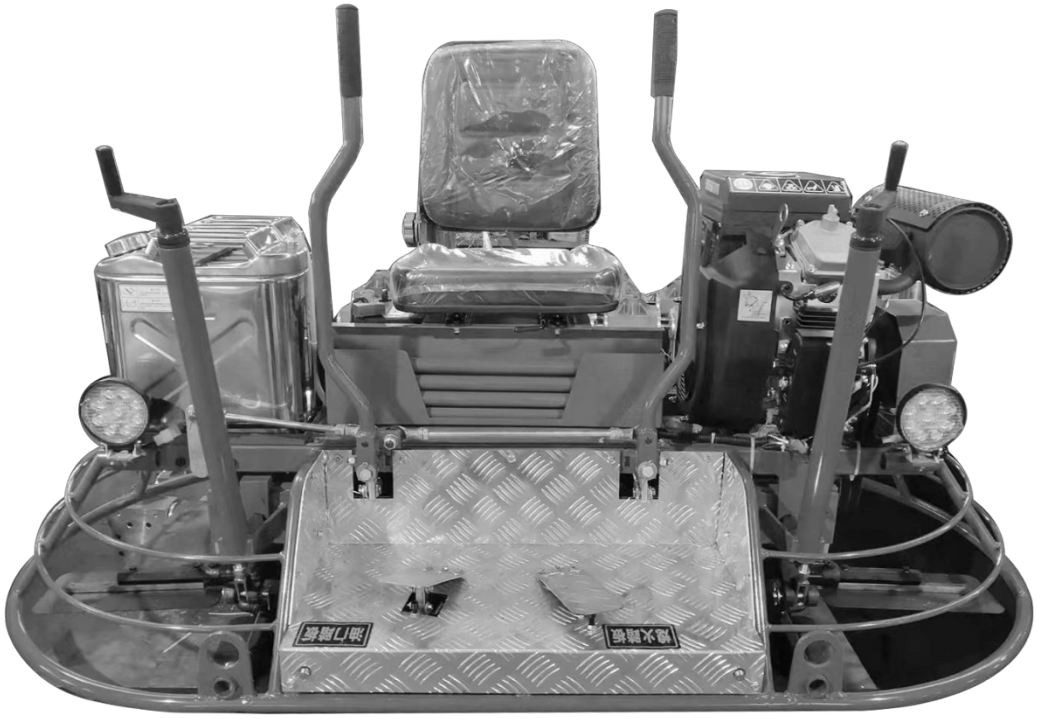
Pro-Tech TOOLS

Pro-Tech TOOLS Mobile Concrete Trowel, two-rotor



Instructions for use

Translation of the original instructions

Introduction

This manual contains important instructions for the installation of this machine. This manual must be followed when operating and servicing the machine.
This manual provides information and procedures for safe operation. For your own safety and to reduce the risk of injury, carefully read, understand and follow all instructions described in this manual.

Safety

1. Characteristics and use of the machine

This machine is a driving type of concrete smoothing machine with excellent series design, excellent manufacturing conditions, imported bearings and imported gear system. Thanks to the heat dissipation function, the enlarged gearbox of high quality turbine is efficient and guarantees long service life. The centrifugal friction clutch is durable and long lasting. Equipped with a handling wheel to facilitate the relocation of the equipment.

The operation of the mobile concrete smoother significantly reduces labor intensity and improves work efficiency. With the double disc, the weight is greater, it has a better compacting effect and the construction efficiency is significantly higher than other
applications. Two smoothing discs can be installed on the machine at the same time, mechanical control system, responsive and easy operation, equipped with Rato motor, which provides reliable performance and stable operation. Adjustable handles ensure operator comfort and reduce fatigue.

Suitable for large and small construction sites.

It is used for internal and external smoothing and straightening. Used in warehouses, squares, airports,
car parks, roads, road bridge maintenance and concrete surfaces. It is the machine of first choice for concrete structures.

2. Safety instructions for the operator

1. Before operating the machine, read, understand and follow the steps in the user manual.
2. The machine must only be started, operated and shut down by personnel trained in the system. They understand the operating instructions, know how to use the machine correctly and are familiar with all operating parts.
3. Personnel without training in the system must not operate the machine. Personnel must familiarise themselves with the various risks and hazards before operating the machine.
4. Persons who are minors, drink alcohol or use drugs must not operate the machine.
5. Use lifting or moving tools correctly.
6. Regularly maintain the machine so that it is always in good working order.
7. When starting the machine, make sure the throttle is at idle, check the surroundings, make sure there is plenty of room and keep a safe distance from people in the vicinity.
8. When starting, test the safety device on the machine.
9. Do not place your feet in or over the protective ring before starting. Ensure that the operator is wearing appropriate protective clothing, including foot protection.
10. Ensure that the foot pedal safety switch can be used and is working properly. If the switch does not work correctly, do not operate the machine. Uncontrolled machines can cause serious injury and damage concrete surfaces.
11. Do not operate the machine indoors or in a relatively enclosed environment unless good ventilation is provided. Engine exhaust contains carbon monoxide, which is odorless and colorless, but can cause unconsciousness or even death within minutes.
12. Do not leave the machine in the starting condition to prevent unnecessary damage.
13. Do not refuel a running machine or a machine with a hot engine. Refuelling should be carried out in a ventilated environment away from sparks or open flames. Do not smoke when refuelling.
14. Do not touch the engine and muffler for a period of time during operation and shutdown. These parts are very hot and can cause burns.
15. Protective clothing, goggles, safety headphones and safety shoes must be worn when operating machinery on site.
16. When the machine stops working, close the fuel valve on the engine.
17. When not in use, store the machine in a suitable, clean and dry place out of the reach of children.
18. Do not modify the machine equipment without permission, as any modification will cause negative operation, safety problems and may shorten the life of the machine.

3. Combustion engine operating safety

1. Do not smoke when refueling or other fuel handling operations.
2. Do not start the engine in the presence of sparks or open flames.
3. Do not start the machine if the fuel spills or smells noticeably.
Before starting, remove the machine from the area of spilled oil and wipe it clean.
4. Do not refuel when the engine is running or at high temperatures.
5. Do not refuel in the presence of sparks or open flames.
6. Do not spill fuel when refuelling.
7. Do not touch the engine and muffler for several minutes after starting and shutting down. The temperature of these parts is high. If it is too high, it can cause burns.
8. If fuel spills during refuelling, wipe it up and dispose of the rag in a safe place.
9. Do not operate the machine in a flammable or explosive environment.
10. It is forbidden to operate the machine in an inadequately ventilated or enclosed area.
11. Do not carry out any other operations during transport. Switch off the engine and plug in the ignition cable before working. The cable is disconnected to prevent accidental starting.
12. Avoid prolonged inhalation of exhaust fumes. You can be injured by harmful gases.
13. Perform repairs or maintenance after the engine has cooled down.
14. Use safe containers for handling fuel during maintenance and repairs.
15. Do not place leaves, paper, paper boxes or other debris around the muffler. The high temperature of the muffler may cause some objects to ignite

4. Maintenance safety

1. Read the instructions carefully before use and maintenance.
2. Familiarize yourself with the location and function of all control and safety components before servicing.
3. Do not allow personnel to carry out repairs and maintenance of the machine without training. Personnel carrying out repairs or maintenance on the machine must be familiar with the relevant potential risks and hazards.
4. Do not attempt to clean or repair the machine while it is in operation. Rotating parts can cause injury.
5. Do not move the blade when the machine is suspended.
6. During maintenance, disconnect the power supply, stop the machine and prevent accidental starting.
7. If machine parts need to be replaced, use only original accessories or parts with the same specifications such as size, type, strength and material, etc.

Objects that can endanger the safety of machinery and operators are: protruding formwork, formwork supports, fixed pile heads, etc. Night construction should have good outdoor lighting, check the machine line in advance and adjust the machine's own lighting.



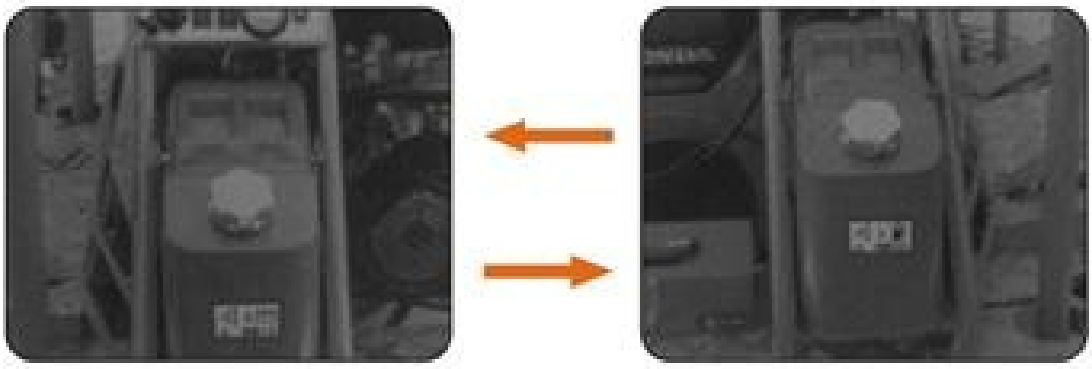
Installation and operation

1. Installation instructions

The machine has been assembled before leaving the factory, so you don't need to do any work on it. Our machine is equipped with a support device for short distance moving and disc changing.

2. Safety precautions

1. Before use, read the machine operating instructions carefully and refill fuel and water. Note: It is necessary to distinguish between the water tank and the oil tank. On the water tank there is a water icon and on the fuel tank there is a fuel icon. If you do this incorrectly, it can cause fatal engine damage.



2. Connect the battery cable, "+" means positive terminal, "-" means negative terminal. (See Figure 1)
3. Check that there is oil in the turbine housing (see Figure 2) and that engine oil is injected (see Figure 3).
4. Check that the emergency stop control is working properly. And that all switches are functional.
5. Adjust the seat to the correct position (see Figure 4) and check that the lighting is working correctly (see Figure 5).



Figure 1



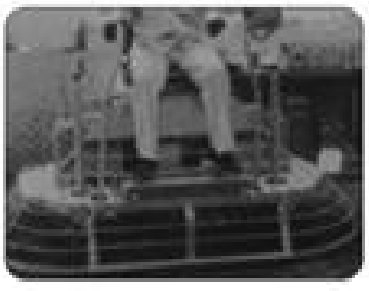
Figure 2



Figure 3



Figure 4



(Figure) (5)

The engine must not be operated without lubricating oil, check that there is oil in the gearbox.

6. Operating the machine: place your left foot on the emergency stop pedal. If you release the pedal, the machine stops immediately. (See Figure 6)
7. When starting, close the throttle (see Figure 7)
8. Turn the key, start the engine. After opening the throttle, let the machine idle for a few minutes. Step on the pedal with your right foot and the machine will start. (See Figure 7 and Figure 8)

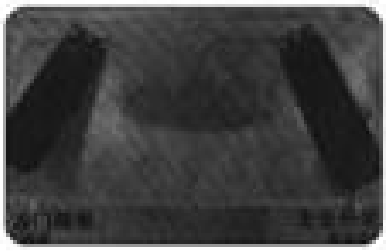


Figure 6



Figure 7

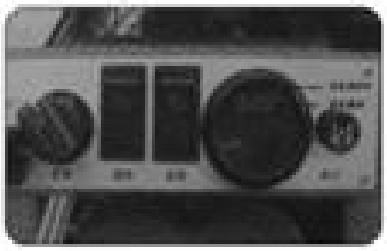


Figure 8

3. Operating instructions

1. Stepping on the accelerator pedal can increase the speed of the machine blades to 0 - 140 rpm and the angle of the blades can be adjusted to 0 - 15 degrees.

2. Controlling the direction of movement (see Fig. 9)

Forward: push the two control rods forward;
Rearward: Pull the two control rods backwards;
Right: push the right lever to the right;
Left: Push the right lever to the left;

Rotate: push the right lever forward, pull the left lever backward and rotate the machine counterclockwise. Push the left lever forward, pull the right lever backwards and turn clockwise

3. The water pump switch is installed on top of the right control lever. As long as the water pump switch is depressed, the water pump automatically sprays water. (See Figs. 9 and 10)

We recommend that you inspect the machine according to our customized inspection standards. Check items daily (after 5 - 10 hours of operation); Check for oil leaks in the gearbox, check for engine oil leaks, check electrical wiring. (The timer on the machine displays the operating hours)

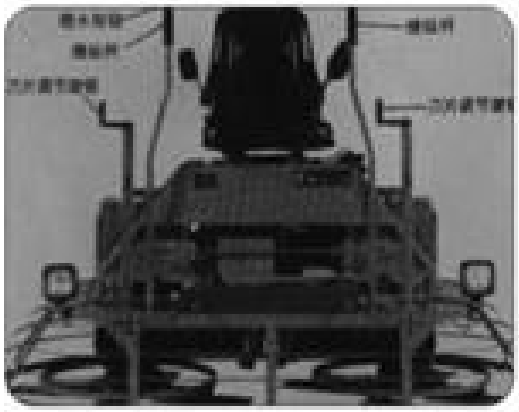


Figure 9

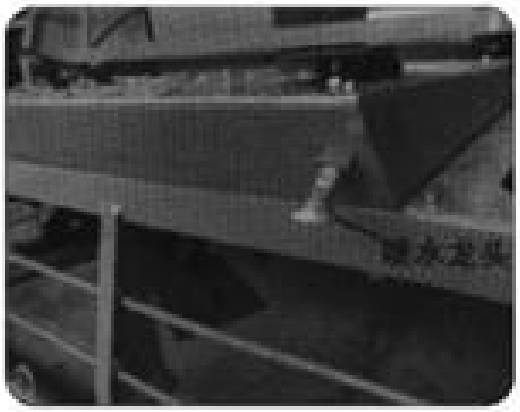
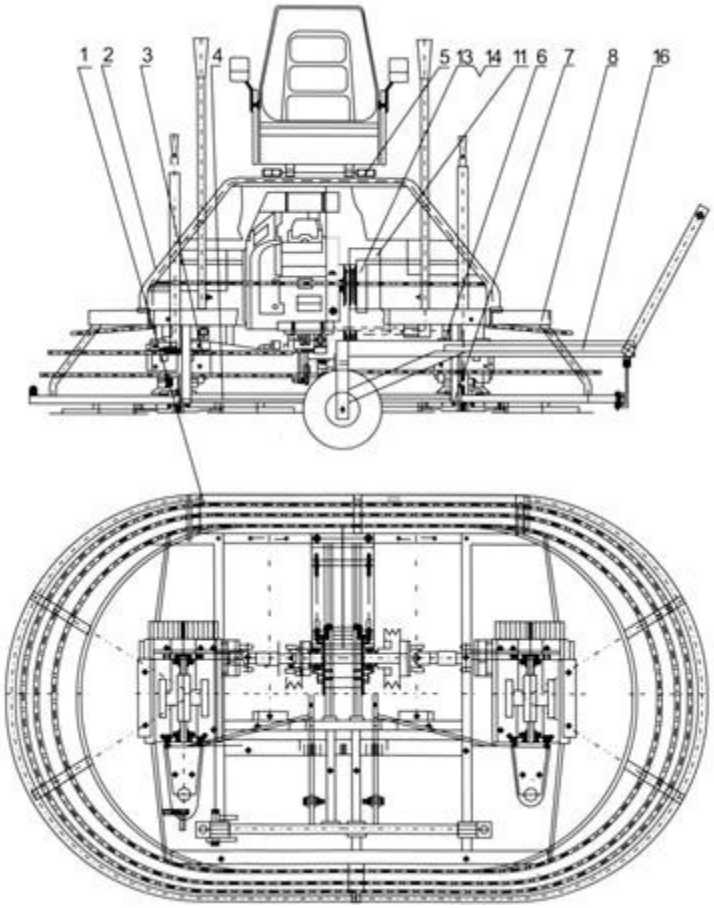
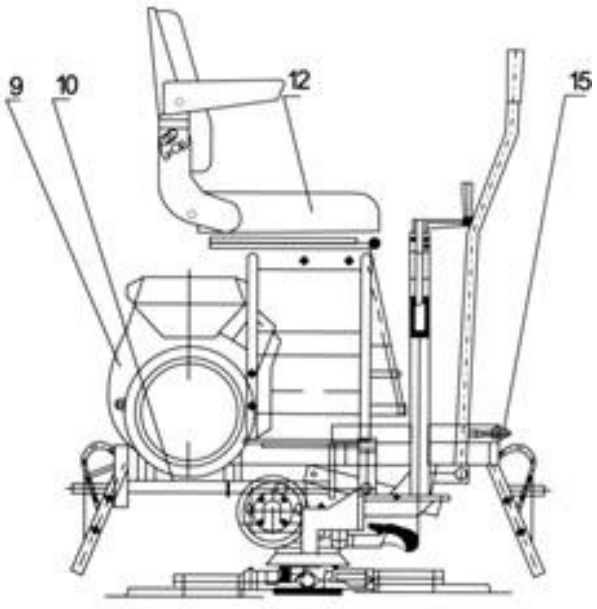


Figure 10

DESCRIPTION OF THE MACHINE





1. Chassis
2. Seat frame
3. Right concrete smoother assembly
4. Right cross disc assembly
5. Seat with chain frame
6. Left concrete smoother assembly
7. Left cross disc assembly
8. Side cover
9. Engine
10. Engine block
11. Belt cover
12. Seat
13. Clutch
14. Triangular belt type B
15. Water spray system
16. Tractor

MAINTENANCE

1. Regular maintenance list

The following form outlines the basic maintenance requirements for the Tractor-Trailer Concrete Trowel and Motor.

Parts to be checked	Every day	Every 20 hours	Every 2 Every two weeks, or 50 hours	Monthly, or 100 hours	Every 2 months, or 200 hours	Every three months, or 300 hours
Check fuel level	-					
Check engine fuel level Oil Check	-					
Check the air filter, in replace if necessary.	-					
Check external fittings	-					
Clean residue after each use of cement from the machine	-					
Change engine oil		-				
Lubricate the arm		-				
Clean air filter element		-				
Check seal and coupling		-				
Check for wear of the rotary belt			-			
Change engine oil					-	
Check fuel filter				-		
Clean or check spark plug					-	
Replace oil filter					-	
Replace spark plug						-
Replace fuel filter element						-
Adjust disc speed						-
Fill the lubricating oil in the wheel housing						-

2. Lubricating oil

Long service life and good operating performance depend on frequent and thorough lubrication of machine parts. Before using the machine, check the oil first and use the recommended correct type and quality of oil.

1. Lubricating nozzle: lithium base, low temperature, all-purpose lubricant should be used on the disc and cross every 10 hours.
2. Transmission: change the oil every year or every 500 hours. The oil drain screw is located at the bottom of the transmission. Inject 800 ml (CRT830)/1300 ml (CRT-P836/CRT846)/2800 ml (CRT10-46) of special lubricating oil
Do not mix different kinds of gear oil in the gearbox, it may lead to damage to the machine, check the technical data for the quality and grade of oil requirements.

3. Engine oil

It is very important to check the oil level before starting any four-stroke engine and pour in the appropriate oil.

4. Lifting and transport

1. Lifting the concrete smoother:
Use a hook (if included, optional accessory) to lift the machine. Make sure that the equipment can support the weight of the machine. (The weight of the machine is indicated on the type plate).
2. For short distance transport, use a carrier wheel (optional accessory):





TECHNICAL PARAMETERS

Motor: Rato
Plate diameter: 980 mm x 2
Number of blades: 8 pcs
Dimensions: 2100 x 1150 x 1000 mm Blade
speed: 75 - 150 rpm Net weight: 340 kg