

OPERATION MANUAL



TFS-350 FLOOR SAW

Your Model # : _____

Your Serial # : _____

PREFACE TO THE MANUAL

Before leaving our factory every machine passes an exacting inspection in which everything is checked minutely.

Following the instructions will ensure that your machine gives long service, in normal operating conditions.

The user advice and spare parts mentioned in this document are given as an indication, and do not constitute an undertaking. No warrantee will be granted in the event of errors or omissions, or for damage occurring during delivery, or caused by the design or use of the machine. We are very concerned about the quality of our products and we reserve the right to make any technical modifications to improve them, without warning.

This document will:

- provide the user with: information about the machine
- information about its possible uses
- prevent accidents due to unsuitable use, by an untrained person, during maintenance, repairs, overhauls, handling or transport
- improve the reliability and durability of the machine
- ensure correct use, regular maintenance, and fast fault finding in order to reduce repair costs and downtime.

The manual should always be available at the place of work. It should be read and used by any person installing or using the machine

The obligatory technical regulations in force in the country where the machine is used must also be adhered to for maximum safety.

GENERAL SAFETY INSTRUCTIONS

The use of symbols on machines (in color) and in the manual identify advice concerning your safety.

WARNING

Danger symbol



OBLIGATION

Blue background, white marking :

obligatory safety + red marking : movement forbidden



WARNING

Black triangle and marking on a yellow background : danger if not adhered to.

Risk of injury to the user or third parties, with possibility of damage to the machine or the tool.



INTERDICTION

Red circle with or without bar : use or presence prohibited.

**INDICATION**

Information - Instruction: special instructions concerning use and inspection.



This symbol indicates that the machine is in conformance with the applicable European directive.



The manufacturer declines any responsibility resulting from improper use, or modifications.

SPECIAL INSTRUCTIONS

The disc cutter is designed to provide safe and reliable service in operating conditions corresponding with the instructions, but it can present dangers for the user and risks of damage, consequently regular on site inspection is necessary to ensure:

- Perfect technical condition (use for the purpose for which it is intended and taking into account any risks, and correction of any malfunction detrimental to safety).
- Use a diamond disk for cutting with water (sawing new or old concrete, tarmac or asphalt). No other type of disk is allowed (abrasive, saw, etc . . .).
- Competent staff (qualifications, age, training) who have read and understood the manual in detail before starting work : any electrical, mechanical or other problem should be investigated by a qualified maintenance engineer (electrician maintenance manager, approved dealer, etc . . .).
- That the warnings and instructions marked on the machine are followed (adequate personal protection, correct use, general safety instructions, etc).
- That no modification, transformation or addition is detrimental to safety and that it is carried out without prior authorization from the manufacturer.
- Respect of the maintenance intervals and periodical checks recommended.
- That only genuine spare parts are used for repairs.

FAILURE TO COMPLY WITH THESE WARNINGS COULD RESULT IN DEATH OR SERIOUS BODILY INJURY.

DO carefully read and understand all the instructions before operating the saw.
DO always keep all guards in place.
DO always wear safety approved hearing, eye, head and respiratory protection.
DO keep all parts of your body away from the blade and all other moving parts.
DO know how to stop the saw quickly in case of an emergency.
DO shut off the engine and allow it to cool before refueling.
DO inspect the blade, flanges and shafts for damage before installing the blade.
DO use only blades marked with a maximum operating speed greater than the blade shaft speed.
DO use caution and follow the instructions when loading and unloading the saw.

DO NOT allow other persons to be near the saw when starting, refueling or when cutting.
DO NOT operate gasoline engines in an enclosed area unless it is properly vented.
DO NOT use damaged equipment or blades.
DO NOT operate the saw in areas of combustible material. Sparks from the saw could cause a fire or an explosion.
DO NOT allow blade exposure from the guard to be over 180 degrees.
DO NOT leave the saw unattended with the motor running.
DO NOT operate the saw while under the influence of drugs or alcohol.

1 – USE

- Use : wet sawing new and old concrete and asphal
- Tools : Diamond Blades - water cooled Ø 350 mm or 400 mm or 450 mm - bore 25.4 mm
(Information from your usual supplier).

2 – HANDLING – TRANSPORT



Switch off the disk prior to moving the machine on jobsite.



Remove the disk prior to hoisting, loading, unloading and transporting the machine on jobsite.

- Height of the handle-bar adjustable by pivoting.
- To position the floor saw on the site, simply push it. It will move easily on its four wheels without starting the engine.
- For transporting by vehicle or by any kind of lifting gear, there is a factory-fitted hoisting point on the machine.

3 – CHECK BEFORE STARTING



Please read the instructions for use prior to operating the machine for the first time.



Motor off.



The working area must be completely cleared, well lit and all safety Hazards removed (no water or dangerous objects in the vicinity).



The operator must wear protective clothing appropriate to the work he is doing.



The use of ear protection is mandatory.

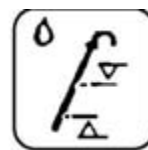


Any persons not involved in the work should leave the working area.



Use only blades marked with a maximum operating speed greater than blade shaft speed

Petrol engine machine (consult the engine maintenance manual) :



Take into account the working conditions from health and safety point of view.

- Check that the fuel tank is full.
- Check that the engine oil level is correct. As the engine often operates at an angle, check the oil level (with the engine horizontal) frequently to ensure that it never falls below the second mark on the dipstick.
- For starting up refer to the engine handbook.

4. – FITTING THE BLADE



Motor off.



Disconnect by removing the plug.

- Set the machine in the high position.
- Disconnect the water pipe from the blade guard.
- Unscrew the nut (K) from the guard [FIG. 1].
- Lift up guard (A).
- Fit the diamond blade.



Take care about the direction of rotation which is shown by an arrow on one of the faces (direction of rotation on the right side of the guard) Make sure the contact faces of flanges (B and C) of blade and the axle are clean.

- Firmly lock screw (D) using the spanner supplied with the machine whilst immobilising the blade by hand.
- Replace the protection guard (A).
- Close the guard water tap (G) [Fig 2].
- Reconnect the water pipe (G).
- Tighten nut (K).



Replace all protective covers for your safety and that of other persons.

Note : how to adjust the « zero » according to the diameter of the blade :

- The blade must be closed to the floor.
- Loosen the screw (H) [FIG. 3]
- Line up the « zero » with the pointer, then tight the screw (H).

5– STARTING UP



Danger : risk of injury.



Always pay extreme care and attention to the preparation of the machine before starting up.



Remove all adjustment tools and wrenches from floor and machine.



Always keep blade guard in place.

- Fill the tank with water, or connect with the water network.
- Mark the floor by drawing a line in the place to be cut.
- Fold down the front guide and position the machine so that the guide (F) and the blade line up with the mark.

Engine :

- Start the engine: refer to the instructions in the manufacturer's service manual.
- Allow the engine to warm up.
- Open the water inlet tap (G).
- Increase the engine speed to maximum.
- Low the wheel lock in order to turn the wheel
- Lower the blade to the desired depth indicated on the side scale on the ratchet placed on the side. We recommend a slow descent to avoid stalling the engine.
- Start moving down to the depth of cut required indicated on the graduated scale fitted on the side. A slow descent is recommended to prevent stalling the motor.
- Once the required depth is reached, lock the wheel by raising the block wheel.



Ensure that the water supply is abundant, when cutting wet.

6 – STOPPING THE MACHINE



Motor off.

- Low the block wheel] and turn the wheel to release the blade from the groove.
- Lock the machine in the high position by means of the block wheel
- Turn off the water supply.
- Allow the engine to turn at low speed.
- Stop the engine (consult the engine maintenance manual).



**Emergency stop (engine) : Operate the switch on the machine's control panel.
Press the red knob (circuit breaker).**

7 – INCIDENTS DURING SAWING

Several causes can result in the blade stopping in the sawing groove or the machine stopping:

- Tension of the belt.
- Lack of fuel.
- Excessively fast feed or descent, etc.
- In all cases remove the blade from the groove and check the machine thoroughly.



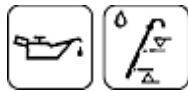
Entrust repairs to authorised dealer only.

8 – MAINTENANCE



Engine Maintenance" : refer to the engine maintenance booklet.

- After use, clean the machine.
- Lubrication: apply a moderate amount of bearing lubricant to the nipples in the depth adjustment chassis (depending on the frequency of use).
- The spindle bearings must be greased after 8 hours of use, with a grease gun by pumping three or five times the grease into the greaser of the bearings. Only use a Super lithium 12 based grease in compliance with the NLG1 GRADE 2 consistency.
- Every 40 hours grease : depth control adjustment screw.



OIL

- Check ENGINE OIL daily. Read engine owners manual for O I L and OIL FILTER change intervals. Use :
 - SAE 10W30 motor oil with API class MS, SD, SE or better for PETROL engines.
 - API class CD or CE for Hatz diesel.



Dispose of the old oil as laid down by the regulations in force.

To empty the motor, place a funnel at the drain outlet

AIR FILTER :

- Read engine owners manual for maintenance intervals. For extremely dusty conditions you may have to clean the air filter element 2 to 3 times a day.
- Replace any damaged filters or gaskets.



Store in a safe place out of reach of children.

Remove all adjustment tools and wrenches.

Store diamond tool in a safe place so it cannot be bent or damaged.

9 – MOTOR BELT TENSION

After several hours of use it may be necessary to adjust the tension of the belts (moderately).

To do this proceed as follows :

- Release the screws fixing the motor to the chassis.
- Turn the tensioning screw (N) at the front of the machine one quarter turn; this screw pushes the motor backwards
- At normal tension, counter-clock the nut of the screw (N).
- Relock the motor fixing screws.



Never set belts beyond original tension.

10 – IMPORTANT RECOMMENDATIONS

- Periodically tighten all nuts and bolts, particularly after the first few hours of operation.
- Check the tension of the belt. Tighten it, as instructed.
- When storing the machine, we recommend removing the blade and storing it carefully.
- Check that the blade is properly sprayed by inspecting the holes in the fork regularly.
- Tighten the blade firmly.
- Make sure the contact faces of flanges, blade and axle are clean.



The manufacturer declines all responsibility for loss or damage resulting from misuse or any modification, alteration or powering that does not conform to the manufacturer's original specifications.



At the work station, the sound pressure level may exceed 85 db (A). In this case, individual protection measures must be taken.



When working in a limited or closed area, make sure that the ventilation is adequate. The exhaust gases contain carbon monoxide (exposure to this toxic gas can cause loss of consciousness and can be fatal).

11 – REPAIRS



We carry out all repairs in the shortest possible time and at the most economical