



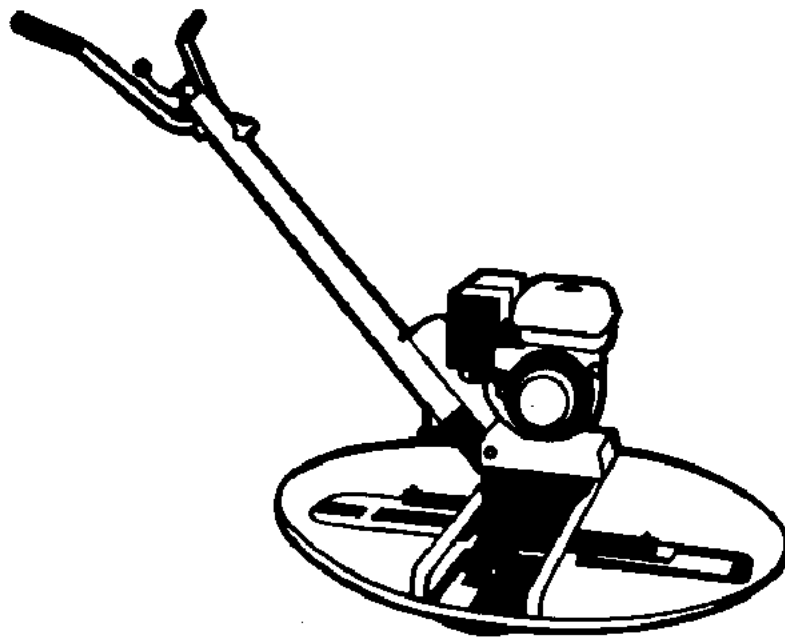
Flextool



WALK BEHIND TROWEL

TP93 - TP110

OPERATING INSTRUCTIONS



WARNING

To reduce the risk of injury, all operators and maintenance personnel must read and understand these operating instructions before operating, changing accessories, or performing maintenance on Flextool power equipment. All possible situations cannot be covered in these instructions. Care must be exercised by everyone using, maintaining or working near power equipment.

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INTRODUCTION

Thank you for your selection of Flextool equipment. Flextool have specialised in the design and manufacture of quality products since 1951.

We have taken care in the design, manufacture and testing of this product. It is covered by a six month warranty. Should service or spare parts be required, prompt and efficient service is available from our branches.

General Safety Instructions for the Operation of Power Equipment

The goal of Flextool is to produce power equipment that helps the operator work safely and efficiently. The most important safety device for this or any tool is the operator. Care and good judgement are the best protection against injury. All possible hazards cannot be covered here, but we have tried to highlight some of the important ones. Individuals should look for and obey Caution, Warning and Danger signs placed on equipment, and displayed in the workplace. Operators should read and follow safety instructions packed with each product.

Learn how each machine works. Even if you have previously used similar machines, carefully check out each machine before you use it. Get the "feel" of it and know its capabilities, limitations, potential hazards, how it operates, and how it stops.

APPLICATIONS

Tilt panels	Warehouse floors
Bridge decks	House slabs

FUNCTION

The trowelling machine reproduces the action of hand trowelling while giving a high quality dense finish with wear resistance. The angle of the blades is adjustable during operation from a *floating* position, with the full blade area in contact to flatten the surface, to a *finishing* position with the blades tilted to give a finished surface.

FUNCTIONS AND CONTROLS

Set the runaway protection switch to the "ON" position. Operate choke as required (according to climatic conditions).

Turn the throttle control to approximately 1/4 throttle and proceed to pull the starter rope or recoil starter. Having started the engine, move choke to full open position. Allow engine to warm up before operating.

It is important that the operator retains a firm grip with the left hand at some point on handle when starting engine, preferably close to throttle control.

TO STOP

1. Throttle engine down.
2. Set the runaway protection switch to "OFF" position.

HAZARDS & RISKS

NEVER allow any person to operate machine without adequate instruction.

ENSURE all operators read, understand and follow the operating instructions.

SERIOUS INJURY may result from improper or careless use of this machine

! MECHANICAL HAZARDS

DO NOT operate the machine unless all protective guards are in place

ENSURE that the motor operation switch is in the OFF position and the spark plug ignition lead is disconnected before removing the guards or making adjustments.

DO NOT increase the governed no-load motor speed above 3,000 r/min. Any increase may result in personal injury and damage to the machine.

Be sure the runaway protection switch provided is working properly so that if the handle should slip away from your control, the ignition supply will be cut off. However momentum may cause the handle to rotate one full turn, so watch your back.

Be careful not to come in contact with the muffler when the engine is hot, since it can cause severe burns.

Keep hands and feet clear of rotating or moving parts as they will cause injury if contacted.

It is important that the operator retains a firm grip with the left hand at some point on the handle when starting the engine, preferably close to throttle control.

When starting the trowel do not exceed 1/4 throttle setting. A higher setting could engage the centrifugal clutch causing the handle to rotate.

Be careful with the trowel around pipes sticking out of the floor or other obstacles. Should the trowel blades catch on these, serious damage to the machine or harm to the operator may result.

ENSURE that repairs to the motor and machine are carried out by COMPETENT personnel.

! FIRE & EXPLOSION HAZARDS

PETROL is extremely flammable and explosive under certain conditions.

ENSURE that petrol is only stored in an approved storage container.

DO NOT refuel the motor while it is in operation or hot.

DO NOT refuel the motor in the vicinity of sparks, a naked flame or a person smoking.

DO NOT overfill the fuel tank and avoid spilling petrol when refuelling. Spilled petrol or petrol vapour may ignite. If spillage occurs, ensure that the area is dry before starting the motor.

ENSURE that the fuel tank cap is securely fitted after refuelling.

! CHEMICAL HAZARDS

DO NOT operate or refuel a petrol motor in a confined area without adequate ventilation.

CARBON MONOXIDE exhaust gases from internal combustion motor driven units can cause death in confined spaces.

! NOISE HAZARDS

EXCESSIVE NOISE can lead to temporary or permanent loss of hearing.

WEAR an approved hearing protection device to limit noise exposure, as required by Occupational Health and Safety regulations.

PROTECTIVE CLOTHING

ALWAYS wear approved hearing protection. Protective goggles, clothing and footwear may also be necessary.

! ADDITIONAL HAZARDS

Slip/Trip/Fall is a major cause of serious injury or death. Beware of obstacles or water left on the walking or work surface.

Exercise caution and ensure that the perimeter of elevated formwork or platforms is protected.

Always maintain good footing so that you do not slip and lose control of the handle when starting or operating the trowel.

OPERATION

THE FLOATING OPERATION

When the slab has set sufficiently firm that the operator's footprint leaves a very slight depression on the surface of the slab, it is ready for the floating operation.

Under normal operating conditions the machine should cover as much as 1000 sq. ft. in about 15 minutes. It is recommended that a slight tension on the trowel control cable, (but not a definite tilt), during the floating operation will cause the machine to operate much smoother. After the floated slab has set sufficiently it is ready for the finishing operation.

CAUTION: Do not let the machine stand in one spot on the soft cement. Lift from the slab when the floating is done.

THE FINISHING OPERATION

When starting the finishing operation never set the trowels up over 1/4" pitch. This is important. Guiding the machine on the slab is very simple, a slight upward lift of the handle causes the machine to travel to the left. Holding the handle in neutral position, the machine rotates in one spot. Slight downward pressure on the handle causes the machine to travel to the right. Best results are obtained by covering approximately 4" on each turn. In other words, let the machine move right or left, backwards or forwards, approximately 4" with each revolution of the trowels. To fill a hole or cut down a hump, move the unit back and forth over the hole or hump.

After the first pass over the slab, the waiting time between operations is determined in the same manner as if you were hand troweling. The pitch of the trowels is also determined by the hardness of the slab in like manner. To repeat, the entire application and action of the troweling machine in regard to getting on the slab, and the correct pitch of the trowels, is determined in the same manner as would be used by a cement finisher when troweling by hand.

TROWEL PITCH SETTING

The trowel pitch adjustment feature of the Power Trowel permits quick and accurate pitch changes of the finishing trowels, without having to stop the machine. Turning the adjustment knob at end of handle enables the operator to change the trowel pitch whenever necessary to take care of varying conditions over the slab surface, and thus do the work faster and more expertly.

CARE AND PREVENTIVE MAINTENANCE

ENSURE that repairs to the motor and machine are carried out by COMPETENT personnel.

Check the oil level in the motor crankcase daily.

Check the gearbox oil level weekly.

Keep the unit clean and free of concrete residue. Ensure the cooling fins on the motor are kept unobstructed.

SERVICE

Change the oil in the motor crankcase regularly to minimise wear.

On models with grease nipples fitted, lubricate the thrust bearing daily and the blade arms weekly.

Inspect, clean and/or replace the motor air cleaner regularly, particularly when operating in a dusty environment.

Inspect, clean and/or replace the spark plug regularly

Check vee belt tension, wear and that it is running true, adjust or replace as required.

SPECIFICATIONS

MOTOR

-	Honda GX160	4.1 kW output
	Robin EY20	3.7kW output

Governed speed - 3,600 r/min

WEIGHT

TP93 -	70kg.
TP110 -	75kg

WARRANTY

FLEXTOOL products are covered by warranty for a period of six (6) months from the date of purchase against defects in material or workmanship provided that:

- The product concerned has been operated and maintained in accordance with the operating instructions.
- Has not been damaged by accident, misuse or abuse.
- Has not been tampered with or repaired by any unauthorised person.

The owner is responsible for the cost of transportation to and from the authorised repairer and the unit is at the owners risk while in transit to and from the repairer.

SPARE PARTS AND SERVICE

Flextool (Aust.) Pty. Ltd.

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Melbourne

Head Office P O Box 1102
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Collingwood Vic. 3066
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Fax: (03) 9417 1391

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Rozelle N.S.W. 2039

Tel: (02) 9818 5722

Fax: (02) 9818 3276

Brisbane

17 Ross Street
Newstead Qld. 4006

Tel: (07) 3252 2306

Fax: (07) 3252 5359

Adelaide

68 Daws Road
Edwardstown S.A. 5039

Tel: (08) 8374 4300

Fax: (08) 8374 4194

Perth

3 / 47 Tate Street
Bentley W.A. 6102

Tel: (09) 451 2077

Fax: (09) 350 5011

Free Call:

Tel: 1 800 801 108

Outside the above metropolitan areas..

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES AND CORRECTION
Motor will not start.	<ul style="list-style-type: none"> • Check the ON/OFF switch to ensure that it is switched 'ON'. • Check the runaway protection switch to ensure that it is switched 'ON'. • Check the fuel supply. • If a Honda or Robin motor is fitted check the crankcase oil level as an oil sensor device is fitted to these motors which prevents starting and stops the motor when the oil level is low. • Ensure the spark plug ignition lead is connected • Check the carburettor jet and bowl to ensure they are clean.
Motor stops.	<ul style="list-style-type: none"> • Check the fuel supply. • Check that the fuel cock is turned on. • Check the condition of the air filter.
Petrol Motor lacks power.	<ul style="list-style-type: none"> • Check the condition of the air filter. • Check the condition of the spark plug.