



# OPERATING INSTRUCTIONS

## FLEXTOOL DOUBLE BEAM SCREED FDBS SERIES



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FOR MORE INFORMATION  
CONTACT US ON 1300 353 986 OR VISIT [flextool.com.au](http://flextool.com.au)

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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. Should service or spare parts be required, prompt and efficient service is available from our extensive dealer network.

### 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 items, 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 and precast panels
- Airport aprons
- Roadways
- Warehouse floors
- Light rail tracks
- Bridge decks

## FUNCTION AND CONTROLS

### ENGINE

The motor is controlled by an on/off switch which is mounted on the engine below the fuel tank. The engine speed is controlled by the throttle lever mounted below the air cleaner.

For full operation and maintenance instructions please review the relevant Honda engine owners manual.

### PRETENSIONED BEAMS

Applicable only for units fitted with pretensioned beams.

Adjust the cable tension to factory setting by placing a steel ruler against the nut fitted to the threaded end of cable, and rotating the nut clockwise until the distance between the nut and end of thread is 40 mm. With one nut fitted to threaded end of cable, this should achieve a concave lower beam surface of 6 mm. This should be checked with a string line and adjusted further if required until a 6 mm deflection is achieved (maximum projection of thread from one nut should not exceed 50 mm). The second nut can be fitted and tightened. To protect the exposed thread place a piece of hose in boiling water and push over the thread.

## HAZARDS AND RISKS

NEVER allow any person to operate the machine without adequate instruction.

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

SERIOUS INJURY could result from improper or careless use of this machine. Vibrating screeds are heavy units and should be positioned by four people of appropriate strength. Using the lifting handles provided on the machine, along with correct lifting techniques.

### ! MECHANICAL HAZARDS

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

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

ENSURE that the motor operation switch is in the OFF position before undertaking any adjustments or maintenance.

DO NOT leave the machine in operation while it is unattended.

EXERCISE CARE when operating unit. Exposure to vibration or repetitive work actions may be harmful to hands and arms.

NEVER stand on the unit while it is operating.

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

### ! FIRE AND 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.

**! 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 protective clothing and footwear to prevent the skin coming into contact with wet concrete.

PROTECTIVE FOOTWEAR should be worn to reduce injuries from penetration through the sole, contact with cutting objects, slipping, contact with wet concrete and electrical hazards.

GOGGLES for eye protection may also be necessary.

USE waterproof protection for hands and knees (if kneeling) when concreting. If your clothing becomes wet from concrete contact make sure you change the clothing.

Do not walk about waiting for it to dry.

**! ADDITIONAL HAZARDS**

Slip/Trip/Fall is a major cause of serious injury or death.

Beware of uneven or slippery work surfaces.

**OPERATION****USING THE VIBRATING-BEAM SCREED**

The effectiveness of vibration and degree of compaction increases with an increase of the beam weight, the amplitude and the frequency, and decreases with an increase in forward speed. Forward speed is critical in the correct use of vibrating-beam screeds and should be limited to between 0.5 and 1.0 m per minute.

Generally speaking the screed will have a self propelling motion resulting from its vibratory action. It should be positioned on the slab so that its natural direction of travel is away from the finished area. The drag ropes and handles at the end of the beams should be used to control the direction and to supplement the self propelling motion of the screed beams.

Once the concrete, with its surcharge has been spread, start the motor and manually pull the beam along the slab. Make sure that there is always a continuous surcharge along the entire length of the leading edge, and that the ends of the beam ride on the edge forms.

Generally one steady pass with a double vibrating beam should be enough to compact and level the concrete.

However stiff mixes may require a second pass. Extra passes might bring laitance to the surface.

Turn the engine operating switch to the on position. To start the engine pull the starter recoil rope.

For more information on starting and correct operating procedures of the engine refer to the relevant engine operating instructions.

To start operation of the screed move the throttle control lever to the maximum speed setting.

ALWAYS maintain good footing so that you do not slip and lose control when starting or operating the machine.

**CARE AND PREVENTIVE MAINTENANCE**

Check the vibrator oil level weekly.

Inspect the rubber anti vibration mounts for wear or deterioration.

Clean the aluminium beams regularly to prevent a build up of concrete residue.

**SERVICE**

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

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 all fasteners for tightness as the machine is subject to vibration.

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

To test run the screed support the beams on a resilient support at each end. (eg. use two car tyres.)

**CLEANING AND STORAGE**

Keep the unit clean and free of concrete residue.

Ensure the cooling fins on the motor are kept unobstructed.

### DOUBLE BEAM SCREED – ENGINE KIT

| Model   | Operating Weight (kg) | Engine Make | Engine Model | Max Rated Power (hp) | Fuel Type   | Product Code  | Barcode  |
|---------|-----------------------|-------------|--------------|----------------------|---|---------------|--|
| FDBS-EK | 37                    | Honda       | GX160        | 5.5                  |  | FT202050-UNIT | <br>9330221049559 |

### DOUBLE BEAM SCREED – BEAMS

| Weight (kg) | Length (m) | Pretensioned | Product Code  | Barcode  |
|-------------|------------|--------------|---------------|--|
| 45          | 4.1        | No           | FT201320-UNIT | <br>9330221035071  |
| 80          | 6.5        | Yes          | FT201532-UNIT | <br>9330221050968  |
| 94          | 8.2        | Yes          | FT201611-UNIT | <br>9330221050692 |

### TROUBLESHOOTING

| SYMPTOM                  | POSSIBLE CAUSES AND CORRECTION  |
|--------------------------|---|
| Motor will not start     | <ul style="list-style-type: none"> <li>■ Check the ON/OFF switch to ensure that it is switched 'ON'.</li> <li>■ Check the fuel supply.</li> <li>■ 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 oil level is low</li> <li>■ Ensure the spark plug ignition lead is connected</li> <li>■ Check the carburettor jet and bowl to ensure they are clean</li> </ul> |
| Motor stops              | <ul style="list-style-type: none"> <li>■ Check the fuel supply</li> <li>■ Check that the fuel cock is turned on</li> <li>■ Check the condition of the air filter</li> </ul>   |
| Petrol Motor lacks power | <ul style="list-style-type: none"> <li>■ Check the condition of the air filter</li> <li>■ Check the condition of the spark plug</li> </ul>  |