**12ft &18ft Endtow Landroller**

**Operators Manual**

**Fleming Agri-Products Ltd**

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*‘****Quality, Strength & Personal Service’***

**EU CERTIFICATE OF CONFORMITY**

CONFORMING TO EC Machinery Directive 2006/42/EC

 **We:**

 Fleming Agri-Products Ltd

 Newbuildings Industrial Estate

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 BT47 2SX

declare in sole responsibility, that the products

**Type: ENDTOW LANDROLLER**

to which this certificate applies, conforms to the basic safety and health requirements of the Machinery Directive 2006/42/EC, and the Transposed Harmonised Standard: BS EN 4254-1 (2015)

Jonathan Lecky

# **Production Director**

This manual is provided to assist you in getting the best results from your landroller and ensure that you do so safely. If you have any queries about the use of the landroller contact your dealer before use. Please keep this manual for future reference.

**1.1 FUNDAMENTAL PRECAUTIONS**

On delivery, your dealer gave you and explanation of the operation and maintenance of this Fleming Landroller. Please read and understand these operating instructions before operating the landroller for the first time. It is essential that you observe all safety instructions.

Incorrect use or mishandling of the landroller can endanger:

Life and Limb of the operator, other persons or animals standing within the vicinity of the landroller

The landroller and other material assets of the owner or third persons.

The performance of the landroller.

Anyone who is involved in the commissioning, operating or maintenance of the landroller must read and understand the following instructions very carefully, and observe them at all times.

**NEVER DISTRACT ANYONE WHO IS USING THE LANDROLLER**

**1.2 AUTHORISED OPERATORS**

Youths under the age of 16 may not operate this implement.

The owner of the landroller must provide the operator with the operating instructions and make sure they have read and understood them. Only then may the landroller be put into operation.

The owner must ensure that only authorised persons operate/work on this landroller. They are responsible for any third persons or animals within the working area of the landroller.

**A SAFE DISTANCE OF AT LEAST 5M MUST BE OBSERVED BY ANY PERSO OR ANIMAL WITHIN THE VICINITY OF THE LANDROLLER**.

**1.3 GENERAL SAFETY AND ACCIDENT PREVENTION REGULATIONS**

Ensure the implement is correctly and securely attached to the operating vehicle. The recommended method of attachment is to use the tractor hook hitch.

NEVER attach to a tractor which would be rendered unstable when the implement is operated at its full capacity. The weight of the roller when unladen is 2085kg, and when laden it is 4450kg.

NEVER park the tractor and roller on a slope.

WARNING: The attaching and detaching of the implement to a tractor must be carried out by only one operator. There should not be any other people in the vicinity of the implement or in the tractor.

ENSURE that the roller is on stable and level ground and is securely chocked when detached from the tractor.

UNDER NO CIRCUMSTANCES should anyone attempt to use the roller as a means of personal transport. It is designed as a specialist purpose farm implement and is unsuitable for the safe transportation of passengers.

NEVER allow anyone especially children to travel anywhere between the tractor and the roller.

Take extra care when operating on sloping ground. NEVER operate on ground which there is a risk of the tractor and roller becoming unstable. When operating on step ground HP requirement is increased and four wheel braking is recommended.

Always take care when moving with a water filled roller as sharp turns or erratic driving may unbalance the tractor. Avoid tight turns at headlands. For increased tractor stability a four-wheel drive tractor is recommended.

Where local laws permit ensure that a flashing amber beacon is mounted on the cab of the tractor and is always used when transporting the roller on the road.

ENSURE that all laws regarding restrictions due to the size of the landroller are followed.

Before, and during operation inspect the area around you. All children, visitors, and animals should be kept away from the work area.

Before operation make yourself familiar with all elements and controls of the landroller as well as their functions.

To avoid personal injury do not allow hands or limbs to enter the area between the drum and the main frame.

NEVER allow children to play on or around tractors and machinery.

Extra care must be taken when transporting / using the roller as it extends past the side of the tractor.

Never attempt to move this implement manually.

NEVER leave tractors and rollers unattended in the wheel lowered position. ALWAYS lower the main roller to the ground when leaving unattended or storing.

**1.4 GENERAL OPERATING INSTRUCTIONS**

This landroller is a tractor-trailed implement. Attempts should not be made to attach the landroller to any other type of vehicle.

ENSURE each section is filled EQUALLY with an amount of water depending on the type of ground, and the required effectiveness of the roller. Increasing the amount of water in the roller will increase the weight and the effectiveness of the roller.

Ensure all hydraulic hoses are connected securely to their corresponding circuits.

Drain the roller sections after use by unscrewing the bungs at each end of the roller and moving the roller until the fill holes are at the lowest point.

NEVER leave the roller full of water for any duration during the cold weather as if the water freezes then the drum can crack and leak.

Take extra care to ensure that the area is clear when changing the roller from the transport position to the operating position.

**1.5 MAINTENANCE**

As a rule, disengage the driving system, apply the handbrake and stop the engine prior to carrying out maintenance, servicing, cleaning, or repair work. ALWAYS remove the ignition key.

Prop the landroller with appropriate supports before carrying out any maintenance.

The manufacturer will not be responsible for any damages or injuries caused by unauthorised repair, alterations or mishandling of the product.

Maintain product with care, checking periodically for damage that would affect the safe operation of the implement.

Regularly check all bolts on the landroller and tighten if necessary.

Check wheel nuts and pressure daily.

Ensure all fill hole bungs are greased after each filling and emptying of the roller.

ALWAYS ensure all warning stickers are kept clean and in good condition, replacing where necessary.

Only use clean grease complying to DIN 51502

Clean all grease nipples and the nozzle of the grease gun before lubrication.

Coat the chrome are of the hydraulic cylinder with grease before and prolonged period of inactivity.

**1.6 HYDRAULIC SAFETY**

CAUTION: The hydraulic system is under high pressure.

Ensure that only high-pressure hoses are used to connect supply to the hydraulic cylinder. Check hoses regularly and renew any that are damaged or worn,

ALWAYS ensure that the hoses are long enough to facilitate turning.

Before working on the hydraulics, lower the landroller and ensure the locking mechanism is securely closed. Release the pressure from the system and stop the tractor engine.

When connecting hydraulic rams make sure that the hydraulic hoses are coupled correctly. Pressure should be released from the system, both on the tractor and on the implement side prior to coupling the hoses to the tractor hydraulics.

CAUTION: Hydraulic oil forced out under pressure can break the skin and cause severe injury. In the event of a hydraulic oil leak stop the tractor flow immediately. DO NOT PUT HANDS NEAR A LEAKING PIPE

Lubricate the hydraulic ram pins daily when the landroller is in use.

**1.6** **GENERAL DIMENSIONS**

 **12ft**

|  |  |
| --- | --- |
| **Dimensions** | **12x36x1/2”** |
| Rolling Width(m)  | 3.7 |
| Overall Width(m) | 4.1 |
| Transport Width(m) | 2.13 |
| Unladen Weight(kg) | 2085 |
| Laden Weight(kg) | 4360 |
| Hp Requirement(minimum) | 90 |

**Converting the roller to the operating position: 12ft**

First remove the pin from position B and swing the Operating Drawbar into the operating position. Re-insert the pin into position B, ensuring the lynch pin is re-attached to the pin.

Raise the wheels to lower the roller to ground level.

Disconnect the hydraulic hoses and place the probes into their parking stubs.

Disconnect the tractor from the Transport Drawbar.

Remove the pin from position C and swing the Transport Drawbar into the parking position. Re-insert the pin into position A ensuring the lynch pin is re-attached to the pin.

**Returning the roller to the transport position is the reverse of the above procedure.**

Operating Drawbar.

Shown in the

Operating Position

Pin position C

Pin position A

**12ft**

GREASE DAILY

GREASE DAILY

**Converting the roller to the operating position: 18ft**

Remove the pin from position C and swing the Operating Drawbar into the operating position.

Insert a pin into position D, locking the drawbar in place. Ensure the lynch pin is re-attached to the pin.

Add the stay arm between positions C and E.

Re-insert the pin into position C, adding a pin to position E ensuring a lynch pin is attached to both pins.

Raise the wheels to lower the roller to ground level.

Disconnect the hydraulic hoses and place the probes into their parking stubs.

Disconnect the tractor from the Transport Drawbar.

Remove the pin from position B and swing the Transport Drawbar into the parking position. Re-insert the pin into position A ensuring the lynch pin is re-attached to the pin.

**Returning the roller to the transport position is the reverse of the above procedure.**

Pin position B

Pin position D

**1.6** **GENERAL DIMENSIONS**

 **18ft**

|  |  |
| --- | --- |
| **Dimensions** | **18x36x1/2”** |
| Rolling Width(m)  | 5.5 |
| Overall Width(m) | 5.9 |
| Transport Width(m) | 2.13 |
| Unladen Weight(kg) | 3000 |
| Laden Weight(kg) | 6000 |
| Hp Requirement(minimum) | 120 |

 **Notes:**

**18ft**

Pin position B

Transport Drawbar

Transport Drawbar

Pin position A

Pin position C

Pin position E

Working Drawbar