

**Multiva**

# OPERATION AND MAINTENANCE MANUAL CAMBRIDGE ROLLER

**JH 450, JH 620**

Original manual 01 / 2015

[www.multiva.info](http://www.multiva.info)

**Multiva**

**TRACKING THE FUTURE**



## Contents

1. FOREWORD .....	1
1.1. Intended use of the machine .....	1
1.2. Technical specifications.....	1
1.3. Type plate.....	2
2. SAFETY INSTRUCTIONS.....	2
3. MEASURES BEFORE COMMISSIONING .....	3
4. FIELD USE.....	3
5. TRANSPORT .....	3
6. SERVICE AND STORAGE.....	3
EC DECLARATION OF CONFORMITY .....	5



# 1. FOREWORD

Multiva agricultural machines are manufactured in Finland. The modern production technology, excellent raw materials and careful manufacturing and finishing utilised in the production of the machines guarantees a high quality product.

We thank you for choosing and putting your trust on the Multiva Cambridge roller. We hope that the product fulfils you requirements and serves you for a long time. **We advise you to carefully go through these instructions before commissioning the machine.** The inspection and maintenance activities described in these instructions are vitally important for the proper functioning of the machine and the validity of the warranty.

All instructions, warnings and cautions must be followed without exception. They are given to ensure the safety of the user and the durability of the machine.

These operation and maintenance instructions apply to JH 450 and JH 620 range Cambridge rollers.

## 1.1. Intended use of the machine

Cambridge roller is intended for compacting the soil surface layer and pressing the stones down to the surface level. Use of the machine for any other purpose is prohibited.

## 1.2. Technical specifications

With standard equipment

	JH 450	JH 620
<b>Weight kg</b>	1830	2580
<b>Working width, cm</b>	450	620
<b>Transport width, cm</b>	250	250
<b>Number of the sections, pcs</b>	3	3
<b>Diameter of the roller discs</b>	49	49
<b>Hydraulic outputs, dual acting, pcs</b>	1	1
<b>Wheel size</b>	340/55x16"	340/55x16"
<b>Power requirement, hp</b>	60-80	80-100

**Due to ongoing product development, products and specifications discussed herein are subject to change.**

### 1.3. Type plate

A type plate similar to the one below is attached to the machine. Please write all the information from the type plate in this manual. When you are dealing with the supplier of the Multiva machine or a factory representative, please mention the model and serial number of the machine. This is recommended to avoid delays and unnecessary misunderstandings.

<b>Multiva</b>	
Malli / Modell	<input type="text"/>
Paino / Vikt kg	<input type="text"/>
Valmistus no / Serie nr	<input type="text"/>
CE	Valmistaja / Tillverkare <b>DOMETAL OY</b> Loimaa, FINLAND

## 2. SAFETY INSTRUCTIONS

These safety instructions and safety distances must without exception be followed when using the machine. The machine must be configured according to this manual and this manual must be utilised in the operation and maintenance of the machine.

- Never allow any person to ride the machine during work or transport.
- Do not stand close to the side sections when the machine is set to the work position or to the transport position.
- Setting to the work position or to the transport position must be carried out on an even and stable surface.
- Transporting the machine on a public road must be done carefully on a sufficiently slow speed.
- Only use original spare parts in the maintenance of the machine.
- Maintenance must be carried out when the machine is on the work position on an even and stable surface.

### **3. MEASURES BEFORE COMMISSIONING**

Check the tyre pressures.

Correct pressure is 4,0 bar (kp/cm<sup>2</sup>) for 340/55x16" tyres.

### **4. FIELD USE**

Set the machine to the work position as follows:

1. Remove a chain from rear of the roller and place it to a holder in the frame bar.
2. Reverse the tractor carefully until the side wings have turned parallel with the middle section.  
ENSURE THAT THERE IS NO-ONE CLOSE TO THE MACHINE.
3. Use the tractor hydraulics for turning the frame of the machine so that the rollers turn to the work position. Do not keep the brakes of the tractor on.
4. Set the drawbar so that both side wings and middle section will work with the same pressure. The cylinder has a pilot valve which locks the drawbar to a desired position depending on the height of the tractor's hitch.

Use considerably slow speed especially in the turnings. Speed is suitable when the pattern of the roller discs remains visible on the field surface.

### **5. TRANSPORT**

Set the machine to the transport position as follows:

1. Use tractor hydraulics for turning the wheels against the ground. Drive forward carefully at the same time until the side sections have turned fully to the driving direction.
2. Lock the sections using the chain.

Ensure that the machine is sufficiently clean before transport on public roads. Road transport must be done very carefully. Recommended max speed is 20...25 km / h.

### **6. SERVICE AND STORAGE**

TIGHTEN ALL BOLTS AFTER TWO HOURS OF USE.

Lubricate all grease nipples once in an operating period.

Check the tyre pressures ( 4,0 bar ) always before the operating period.

Use only original spare parts.





## EC DECLARATION OF CONFORMITY

**DOMETAL OY**  
Kotimäentie 1  
FI-32210 Loimaa  
Finland

hereby states that the machine in question

**Multiva JH450 and JH620** rollers

meet the requirements of Machinery Directive 2006/42/EC.  
The following standards were applied in the design of the machine:

**ISO 4254-1:2013**

Loimaa 23.1.2015



Vesa Mäkelä  
Kotimäentie 1  
FI-32210 Loimaa  
Finland

The undersigned is also authorised to compile technical documentation for the above machines.