

# TECHNICAL DATA SHEET

# OTTO



## GENERAL FEATURES:

Mechanical sweeper with vacuum system for dust control.
Version: Diesel, Petrol, Electric 36V
With operator in front position
Refuse container in rear position
Exclusive vacuum system on side brushes "DUST BUSTER" RCM Patented
Wheels: n°1 Front steering and drive, n° 2 rear
Working areas: Cleaning of medium areas, indoor and outdoor, private and public

VERSION	OTTO D TOP/1	OTTO H TOP/1	OTTO E TOP/1	OTTO DL TOP/1
	Diesel	Petrol	Electric	Diesel

## PERFORMANCES

Max. cleaning capacity (with 2 side brushes)	m <sup>2</sup> /h	9100	9100	6500	9100
<i>Cleaning width:</i>					
Main brush	mm	760	760	760	760
Main brush + Right side brush	mm	1080	1080	1080	1080
Main brush + 2 side brushes	mm	1300	1300	1300	1300
Main brush + 3 side brushes	mm				
Max. transfer speed	km/h	8	8	6	8
Max. reverse speed	km/h	5	5	5	5
Max. working speed	km/h	7	7	5	7
Max. working gradient	%	16	16	16	16
Max. gradient	%	18	18	18	18

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	<i>Diesel</i>	<i>Petrol</i>	<i>Electric</i>	<i>Diesel</i>

### **NOISE LEVEL (ISO 3744)**

Sound pressure level in operating position	dB(A)	82	79	73,5	82

### **VIBRATION (ISO 2631/97)**

Frequency weighted acceleration value	m/s <sup>2</sup>	< 0,8	< 0,6	< 0,5	< 0,8

### **BRUSHES**

Main brush, length	mm	760	760	760	760
Side brush, diameter	mm	500	500	500	500
Flap lifting system	type	mechanical	mechanical	mechanical	mechanical

### **DUST VACUUM SYSTEM**

Fan	n°/type	1/centrifugal	1/centrifugal	1/centrifugal	1/centrifugal
Fan, diameter	mm	230	230	230	230
Vacuum cut-off	type	electric	electric	electric	electric

### **DUST FILTERING SYSTEM**

Filtering system	n°/type	6/cartridges	6/cartridges	6/cartridges	6/cartridges
Filtering surface	m <sup>2</sup>	6	6	6	6
Filtering material	type	cellulose	cellulose	cellulose	cellulose
Dust filtering shaker	n°/type	1/electr.12V	1/electr.12V	1/electr.36V	1/electr.12V

### **REFUSE CONTAINER**

Refuse container capacity	lt	130	130	130	130
Refuse container lifting	type	hydraulic	hydraulic	hydraulic	hydraulic
Refuse container emptying	type	hydraulic	hydraulic	hydraulic	hydraulic
Emptying height	mm	1430	1430	1430	1430
Maximal loading weight	kg	80	80	80	80

### **STEERING**

Steering wheel on front wheel	type	mechanical	mechanical	mechanical	mechanical
Number of turns from straight to full lock	n°	1+¼	1+¼	1+½	1+½
Minimum "U"-turn space	mm	2400	2400	2400	2400

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### **ELECTRIC MOTORS**

<b>Drive and brushes control motor</b>				
Make				<b>Metalrota</b>
Model	type			<b>C 364</b>
Nominal power	rpm n°/V/W			2150 1/36/2800
<b>Vacuum motor</b>				
Make				<b>Amer</b>
Model	type			<b>MP56L</b>
Nominal power	rpm n°/V/W			2900 1/36/180
Total power	W			2980
Starting	type			electric

### **BATTERY**

Quantity and capacity of the battery	n°-V-Ah			1/36/240	
Armoured battery dimension (length-width-height)	mm			770x333x435	
Battery water	type	distilled water	distilled water	distilled water	distilled water
<b>Autonomy</b>	h			3*	
<i>(Caution! Autonomy depends on the type of battery and the use of the machine)</i>					

### **ENGINE**

Make		<b>Lombardini</b>	<b>Honda</b>		<b>Lombardini</b>
Model	type	<b>15LD 350</b>	<b>GX270</b>		<b>LDW 702</b>
Cylinders	n°	1	1		2
Bore	mm	82	77		75
Stroke	mm	66	58		77,6
Displacement	cm³	349	270		686
Max. Power	rpm	3600	3600		3600
	kw/HP	5,5/7,5	6,6/9		12,5/17
Max.setting power	rpm	2900	2900		2900
	kw/HP	5/6,8	4,8/6,6		10,2/13,9
Fuel consumption	lt/h	1,9	2		3
Cooling		air	air		water
Oil sump capacity	lt	1,2	1,1		1,6
<b>Supply with Supermotoroil SAE 15W/40</b>					
Fuel tank capacity	lt	4,3	6		15
<b>Supply with</b>		diesel oil	unleaded petrol		diesel oil
Starting	type	electric	electric		electric
Autonomy	h	2,2	3		4,15

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### **DRIVE**

Drive on wheel	position	front	front	front	front
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### **TRANSMISSION**

Transmission system	type	hydrostatic	hydrostatic	hydrostatic	hydrostatic
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### **WHEELS**

Front	Ømm	303	303	303	303
	type	superelastic	superelastic	superelastic	superelastic
Rear	Ømm	303	303	303	303
	type	superelastic	superelastic	superelastic	superelastic

### **BRAKES**

Service brake on front wheel	type	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Parking brake on rear wheels	type	mechanical	mechanical	mechanical	mechanical

### **SUSPENSION**

Front suspension	type	rigid	rigid	rigid	rigid
Rear suspension	type	rigid	rigid	rigid	rigid

### **DIMENSIONS**

Machine dimensions (length-width-height)	mm	1640 x 1073 x 1505			
Packing dimensions (length-width-height)	mm	1800 x 1250 x 140			

### **WEIGHT**

Machine weight	kg	529	518	760	529
Battery weight	kg			270	
Packing weight	kg	40	40	40	40

### **HYDRAULIC SYSTEM**

Hydraulic motor on front wheel	n°	1	1	1	1
Hydraulic motor on main brush	n°	1	1	1	1
Hydraulic circuit capacity	lt				
Hydraulic oil tank capacity	lt	5	5	5	5
<b>Supply with Agip Rotra ATF (red)</b>					
Variable delivery pump	n°	1	1	1	1

### **INSTRUMENTS**

Vacuum fan warning light		x	x	x	x
Hourmeter		x	x	x	x
Flashing light		x	x	x	x
Battery warning light				x	
Horn		x	x	x	x

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### **STANDARD EQUIPMENT**

	<b>Lombardini</b>	<b>Honda</b>	<b>Metalrota</b>	<b>Lombardini</b>
Engine/Electric motor	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Service brake	mechanical	mechanical	mechanical	mechanical
Parking brake	mechanical	mechanical	mechanical	mechanical
Main brush driving control	mechanical	mechanical	mechanical	mechanical
Side brushes driving control	mechanical	mechanical	mechanical	mechanical
Main brush lifting	mechanical	mechanical	mechanical	mechanical
Side brushes lifting	mechanical	mechanical	mechanical	mechanical
Filter shaker	electric	electric	electric	electric
Vacuum cut-off	electric	electric	electric	electric
<b>“Vacuum system on side brushes type DUST BUSTER RCM patented”</b>				
	x	x	x	x
Flap lifting system	mechanical	mechanical	mechanical	mechanical
Dust filters	cellulose	cellulose	cellulose	cellulose

### **OPTIONALS**

Left side brush	x	x	x	x
Front dust conveyor	x	x	x	x
Polyester dust filters	x	x	x	x
Overhead guard	x	x	x	x
Sack filter	x	x	x	x
N°6 - 6V 180Ah autonomy 2h			x	