

# Clemas & Co Ltd

Industrial Cleaning Equipment  
Sales - Hire - Service

## CYCLONE SCRUBBER POLISHERS OPERATOR MANUAL



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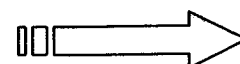
**Web:** [www.clemas.co.uk](http://www.clemas.co.uk)

**MACHINE SPECIFICATIONS****Janitorial machines**

	<b>CR38</b>	<b>CRS38</b>	<b>CR48</b>	<b>CR61</b>	<b>CR76</b>
Voltage (volts)	110/230	110/230	110/230	110/230	110/230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Brush Motor Power (watts)	370	370	550	1100	1100
Brush Speed (RPM)	620	400	400	400	350
Tank Capacity (Lt)	25	25	25	25	25
Working Width (cm)	38	38	48	61	76
Noise Level (Dcb)	60	58	60	65	64
Weight (Kg)	36	36	47	60	76
Cable length (Mt)	15	15	15	15	15
<b>Coverage (m<sup>2</sup>/Hr):</b>					
Scrubbing	400		650	1000	1600
Polishing/Buffering	300		500	800	1300
Spray Cleaning	200		350	500	800
Shampooing		150	275		
Bonnet Mopping			600		

**Heavy Duty machines**

	<b>R48HD</b>	<b>R48HD</b>	<b>R76HD</b>	<b>R76HD</b>
Voltage (volts)	110/230	3 Phase	110/230	3 Phase
Frequency (Hz)	50/60	50/60	50/60	50/60
Brush Motor Power (watts)	1500	2200	1500	2200
Brush Speed (RPM)	400	400	350	350
Weight (Kg) Exc Ballast Weights	48	48	80	80
Ballast Weights (19Kg ea)	2 off	2 off	3 off	3 off



### 3.

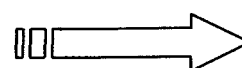
## **BRUSH REPLACEMENT**

### **BRUSH/PAD FITTING**

- Before fitting or changing brushes, disconnect the machine from the mains supply by removing the plug from the socket.
- Select the correct brushes by referring to the table below.
- To fit the brushes, tilt the machine back, and tip the head back until it can be rested on the bowl rim.
- Brushes and drivebacks are held on by rubber grommets, and are simply pushed on, or pulled off.
- To remove brushes, use both hands to pull the brush, while pushing against the bottom cover with thumbs.
- After fitting pads or brushes, ensure they are even before returning the head to the normal working position.
- Wire scarifying brushes are normally attached by separate spring clips, which are supplied with each set of brushes.
- Always keep brushes and pads in sets of three, to ensure even wear, and prevent vibration.

### **BRUSH/PAD SELECTION**

<b>TASK</b>	<b>BRUSH TYPE</b>	<b>CR38</b>	<b>CR48</b>	<b>CR61</b>	<b>CR76</b>
General Purpose Scrub	M.W.F./Straw	3800	4800	6100	7600
Light Scrub/Shampoo	Polyprop. 0.016	3807	4807	6103	7603
Medium/Heavy Scrub	Polyprop. 0.024	3804	4804	6104	7604
Heavy Duty Scrub	Nylon. 0.024	3805	4805	6105	7605
Abrasive Scrub	Bronze/P.P.	3813	4813	6113	7613
Heavy Abrasive Scrub	Tynex	3816	4816	6116	7616
Standard Driveback	Velcro	3860	4860	6160	7660
Heavy Duty Driveback	Instalock	3862	4862	6162	7662
<b>PADS</b>	<b>NYLON</b>				
Abrasive Scrub	Black	3874	4874	6174	7674
Heavy Duty Scrub	Green	3872	4872	6172	7672
Spray Stripping	Brown	3883	4883	6183	7683
Spray Cleaning	Blue	3881	4881	6181	7681
Spray Buffing	Red	3879	4879	6179	7679
Polishing	White	3877	4877	6177	7677
Buffing	Buff	3870	4870	6170	7670



4.

**Heavy Duty Tooling**

Task	Type	R48HD	R76HD
Light Duty	Crimped Wire 26 SWG	4841	7641
General Duty	Steel Wire 4 x 18 SWG	4843	7643
Anti-spark	Bronze Wire 4 x 18 SWG	4845	7645
Medium Duty	Steel Wire 3 x 16 SWG	4849	7649
Heavy Duty	Steel Wire 2 x 14 SWG	4851	7651
Extra Heavy Duty	Steel Wire 4 x 14 SWG	4868	7668
	Starwheels	4899	7699
	Widea Starwheels	4898	7698
	Carbide Block - Fine	4885	7685
	Carbide Block - Medium	4886	7686
	Carbide Block - Coarse	4887	7687
Ice Breaker	Carbide Tip Scraper	4897	7697

Bonnet Mopping Kit. Part Number 661867. Comprising; 2 x 4889 & 1 x 4805M

**CHEMICAL SELECTION**

TYPE	PRODUCT	DESCRIPTION
Neutral Detergent	D70 Centaur	General Purpose Cleaner
Carpet Shampoo	D73 Dry Foam	Dry Foam Carpet Shampoo
Alkaline Cleaner	D75 Attack	Heavy Duty Stripper
Heavy Duty Cleaner	D77 Centurian	Floor Cleaner & Degreaser
Extraction	D78 Fibrecare	Carpet Shampoo
Bonnet Spray	D80 Bonnet Spray	Carpet Maintenance
Extraction	D82 Defoamer	Defoamer
Rinse	D84 Saferinse	Rinsing Agent
Hardwearing Polish	P44 Super Har 2	Semi Buffable Polish
Standard Polish	P50 Hisobuff	Buffable Polish
Spray Cleaner	P60 Sprayclean	Maintenance Cleaner Polish



## OPERATING INSTRUCTIONS

### TRANSPORTING

The machines should be moved to their operating area by tilting back on it's wheels, to balance the weight, and pushing. Care should be taken when lowering the head to the floor, not to damage the brush pins if the machine is being moved without brushes on.

### LIFTING

From either side;

It is recommended that the machines are lifted by two people. Each place one hand under the rear of the fork, and the other hand on the main handle and lift together.

From front and back;

Alternatively two people can lift the machine by one person lifting the head, while the other lifts from the handle.

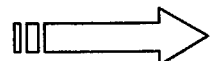
**Care must be taken when lifting machines as the head is free to tip backwards, and could trap fingers between motor and fork.**

- ∅ Check the machine for damage. Do not attempt to use the machine with any part missing, or damaged.
- ∅ Select, and fit the brushes/pads for the task.
- ∅ Fill the solution tank. (if fitted).
- ∅ Adjust the handle position - lift the locking lever, on the right at the rear of the handle, and adjust the handle to a comfortable operating position. Keep hands away from moving parts while adjusting, then push the locking handle down to secure.
- **Switching on the machine**  
Uncoil all flexible lead and connect the plug to the mains supply. Switch on the brush motor with the 'dead man's handle' .

**NOTE:** to stop the machine release the dead man's handle. Each time the handle is operated the brushes will reverse direction to prolong the brush life.

**IMPORTANT** - The water or detergent solution used in the tank must be **CLEAN**. Only use clean buckets when filling, or a hose direct from a tap. Never use any corrosive, or caustic fluids or powders in the tank. Powder or dirt will block the water channels. Use Cimex cleaning agents for best results.

**Note:** Always switch the machine to the 'off' position if the supply is interrupted in case the supply is re-instated when not attended.



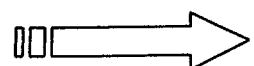
## 6.

### **SCRUBBING / STRIPPING**

- Fit brushes or pads.
- Fill tank with water and detergent.
- Adjust the handle position to suit.
- Tilt the machine backwards so the brushes/pads are clear of the floor. Wheel the machine to the area to be cleaned.
- Uncoil the mains cable and plug into electric supply.
- Switch on the machine. Always work away from the supply socket - this will prevent the machine running into the cable.
- To release cleaning solution onto the floor, lift the solution lever on the machine handle. The solution will be released through the centre of each brush.
- After scrubbing the floor remove the dirt and water without delay. For best results use a Cimex VC2.

### **BONNET SPRAYING (CR48SPR Machine only)**

- Fill the tank with warm water.
- Add Bonnet Spray Cleaner (D80) in proportions quoted on container label.
- Tilt machine head back on it's rim.
- Place the brush and two drivebacks onto the brush pins, and bonnets onto the two drivebacks.
- Return the machine head to normal working position, ensuring the bonnets remain attached.
- Start the cleaning operation:-
  1. Turn on machine
  2. Switch on the pump - Note: the pump switch has two positions, momentary pulse and continuous spray.
  3. Walk forward spraying the carpet with light spray - do not soak the carpet.
  4. Check the bonnets regularly, and change when dirty.



## 7.

### **CARPET SHAMPOOING - CRS38 & CRS48 machines only**

**CAUTION:** Before shampooing, test a small area of carpet with the shampoo solution to ensure it is colour-fast.

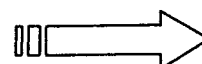
- Fit shampoo brushes 3807, or 4807 on appropriate machine.
- Fill the tank with water and Dryfoam shampoo (D73) solution, to the required concentration.
- With the machine running, apply solution to the carpet until a stable foam is obtained, and work this steadily into the carpet. **Do not overwet.**
- Prevent people walking on the carpet until the foam has evaporated. The dirt absorbed by the foam will form into crystals which can then be removed by vacuuming.
- Vacuum the carpet again 24 hours later. This will prevent dirt being returned to the carpet. For best results use a Cimex VC2.

### **VACUUM POLISHING ( 400BVP & 500BVP 'Breeze' machines only)**

- The 'Breeze' machines have a vacuum unit instead of a solution tank which picks up dust through a skirt assembly and collects it in a paper bag in the vacuum tank.
- The vacuum unit is switched independently of the main machine, the switch is located on the top of the vacuum tank.
- To change the dust bag, open the front cover of the vacuum unit, using both hands pull the cardboard reinforced top of the bag towards the door of the tank gently but firmly to release the rubber gasket from the inlet tube.  
Fit new bag firmly over the vacuum tube, taking care not to tear it, and close the front cover.

### **POLISHING / BUFFING**

- Fit pads onto drivebacks.
- Adjust handle position to suit operator.
- Tilt the machine until the head clears the floor, and wheel to the work area.
- Ensure the floor is clean and dry.



## 8.

- Switch on the machine. Always work away from the mains socket to prevent the machine from running into the cable.
- Walk steadily behind the machine, overlapping each pass to ensure an even finish.

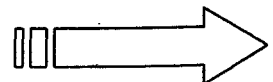
Should the machine start to vibrate, or resist the buffing action on the floor, then check the cleanliness of the pads. When dirty on one side they may be reversed.

### **SCARIFYING**

This should only be undertaken with either the **R48HD** or **R76HD** machines. These machines are more powerful and have the added advantage of extra ballast weights to improve the process.

- Fit scarifying brushes. (See heavy duty tools chart)
- Adjust the handle to suit the operator, and tilt the machine back until the head is clear of the floor. Wheel the machine to the area to be cleaned.
- Switch on the machine. Always work away from the mains socket - this will prevent the machine running into the cable.
- This is normally a dry process. Because of the very harsh penetrating action of the brushes, only floors such as concrete, metal, tile, end grain wood block, etc can be scarified.
- After scarifying, collect the loosened dirt immediately, using sweeping, or other suitable method,

**Note:** Scarifying is an inherently noisy process where ear defenders are recommended along with sturdy footwear to protect the operator's feet.





**MAINTENANCE**

- After use, wipe over the machine with a damp cloth. Cleaning machines should always be kept clean.
- Inspect the cable and mains plug for damage, check for any loose parts, screws, nuts, etc. Report any damage immediately.
- Remove brushes or pads and clean under running water.
- Replace worn brushes.
- Do not store the machine on it's brushes as damage may result.
- Empty the water tank after use. Flush regularly with clean water.

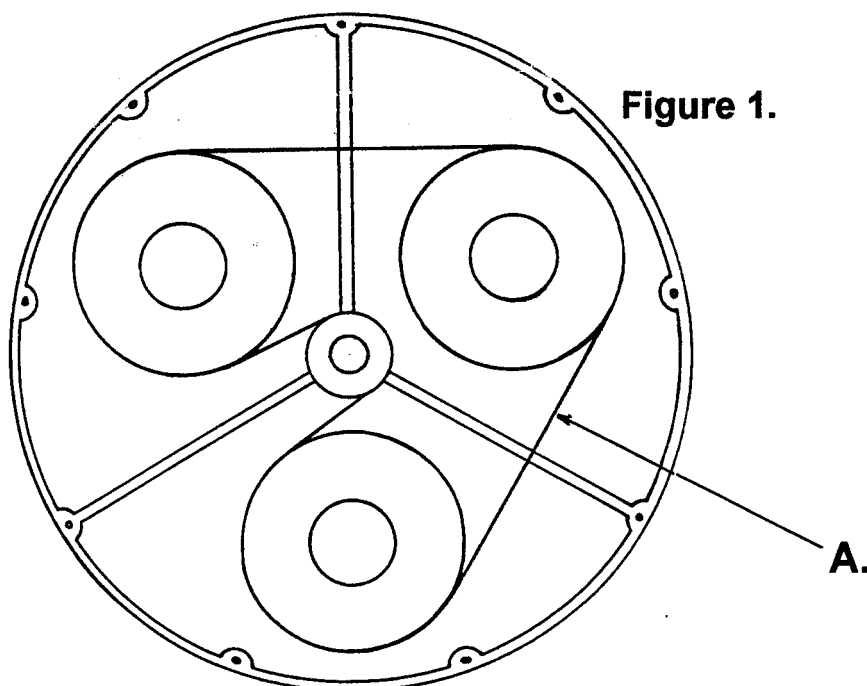
**BELT REPLACEMENT (See Figure 1.)**

1. Remove bottom cover screws and remove the cover.
2. To remove a worn belt turn a pulley whilst pulling the belt off from point 'A', being very careful not to pinch your fingers between pulley and belt.
3. To re-fit a new belt, loop the belt around the drive pulley and two of the brush pulleys, leaving the last loop of the belt to run on at point 'A'. Rotate one pulley to ease the belt on until it is correctly positioned on all pulleys.

A belt fitting tool is available. **(Part No. 9730)**

4. Replace the bottom cover, ensuring all screws are refitted.

**Note:** There is no tensioning device, therefore it needs reasonable force to fit the belt.



**FAULT FINDING**

<b>1. Motor not running</b>	Check machine is plugged in. Check the fuse is not blown. Check circuit breaker has not tripped. Check the cable is undamaged.
<b>2. Machine stalls during operation</b>	Check pads or brushes are clean and undamaged Check extension cable current rating (if one is being used ). Check the electrical plug connections.
<b>3. Machine vibrates</b>	Check fitting of pads. Check pads or brushes are clean and undamaged. Check the thickness of the brushes or pads (all three must be even). Check the brushes are not distorted due to being left on the machine in store.
<b>4. Cleaning solution does not flow</b>	Check the tank is clean, outlet is not blocked, and all valves are open.

Cimex machines and materials are backed by a comprehensive service network. If repairs become necessary, or spare parts are required, these can be obtained from your local Cimex Authorised Agent, who will be pleased to draw up a Service Agreement with you in order to provide a regular maintenance schedule and keep your equipment in optimum condition.

The full range of brushes, detergents and polishes is also available.

All Cimex machines are guaranteed for a period of One Year from date of delivery.

<b>Do's</b>	<b>Clean down after use Flush tank with clean water</b>
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<b>Don't's</b>	<b>Touch rotating bowl Remove switch-box cover Use machine with damaged cable or other parts</b>
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**FAILURE TO MAINTAIN THE MACHINE MAY INVALIDATE THE WARRANTY**