

NORTON

SAINT-GOBAIN

clipper[®]

Transforming
surfaces
...and beyond

CG CLEAN 430

USER MANUAL

Translated instruction manual




SAINT-GOBAIN



CE Declaration of conformity

The undersigned manufacturer:

**SAINT - GOBAIN ABRASIVES S.A.
190 BD. J. F. KENNEDY
L-4930 BASCHARAGE**

Declares that the following new equipment:

"Floor polishing sander":	CG CLEAN 430 230V	Code: 70184632740
	CG CLEAN 430 110V	Code: 70184633138

complies with the provisions of the Guidelines:

- **"MACHINERY" 2006/42/EC**
- **"LOW VOLTAGE" 2014/35/ EC**
- **"ELECTROMAGNETIC COMPATIBILITY" 2014/30/EC**

Valid for machines with a serial number from: 4503430198001

Where technical documents are kept:

Saint-Gobain Abrasives 190, Bd. J. F. Kennedy 4930 BASCHARAGE, LUXEMBOURG

This declaration of conformity lapses if the product is processed or modified without our consent.

Bascharage, 12/04/2023.

François Chianese, authorized representative and responsible for the technical file.
Bascharage, Luxembourg

CG CLEAN 430

USER MANUAL

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1 BASIC SAFETY TIPS

The CG CLEAN 430 is exclusively intended for cleaning and polishing of floor (flat or <2% sloped surfaces).

Any other - or extended - use, contrary to the manufacturer's advice, will be considered non-compliant. The resulting damage cannot be borne by the manufacturer. The risk will be taken exclusively by the user. Use in accordance with the requirements also includes compliance with the instructions for use and the inspection and maintenance conditions.

1.1 Pictograms

Advice and warnings are represented by pictograms on the machine. You will find the following symbols on the CG CLEAN 430. Here is their explanation:



Mandatory reading of the user manual
before using the machine



Mandatory hearing protection







Mandatory hand protection



Mandatory vision protection

1.2 ID plate machine

The important information is present on the following plate attached to your machine:

 <p>SAINT-GOBAIN</p> <p>190, Bd. J.F. Kennedy L-4930 BASCHARAGE LUXEMBOURG</p>	Code: Machine code
	Mod: Machine model
	Type: Machine type
	Year : Year of production
	W= Weight kg
	P= Power kW
	 = Ø of work mm
	 = Rotational speed RPM
Serial N°: Serial Number	

1.3 Prevention tips at certain phases of operation

Before work begins:

- Read this user manual carefully.
- Is familiar with the environment at the point of intervention. This working environment includes, for example, difficulties of execution, obstacles to traffic, respect for ground loads, the necessary safety marking delimiting the site in relation to public traffic and the possibility of emergency intervention in the event of an accident.
- Make sure there are no metal parts or a sudden discontinuity at ground level. In case of contact with any anomaly, the machine could jump and cause damage to the operator, other people, or things.
If possible, remove any abnormalities before working with the machine. Otherwise, work at a safe distance from these anomalies.
- Ensuring that the soil is homogeneous.
- Check regularly to see if tools are fixed correctly.
- Use the machine only with its protective housings and electrical case covers attached.
- Check that the protective housing slides vertically and freely. When using the machine, the protective housing must always be in contact with the ground.
- For dry use, use only with a dust vacuum cleaner. (A connection nozzle is provided for this purpose)
- Check that all hoses (suction and water supply) are not damaged and properly connected.

- Wear safety glasses at work.
- Use only NORTON or manufacturer-approved tools. Using other tools may cause damage to the machine.
- Never use the machine in the rain.

Machine with electric motor

- Unplug the machine from the electrical outlet before starting any repair or handling.
- Avoid contact of electrical connections with splashes of water or moisture.
- The machine can cause explosions when used near flammable materials or flammable steams.
- Do not use this machine near fuels, combustible powders, solvents, or other flammable materials.
- Keep the electric cable away from hot faces.
- Keep electrical components dry. Always store the machine in a dry place.
- The machine must absolutely be properly grounded. If in doubt, have electrical connections checked by a qualified electrician.
- If the machine stops for no apparent reason, turn off the main power supply to the machine. Only a qualified electrician is qualified to study and solve the problem.
- Using the machine with a damaged electrical cable caused short circuits.
- Do not use the electrical cable to move and/or pull the machine.
- Do not plug into the power outlet with a non-regulatory outlet or by forcing on the cable.

2 GENERAL DESCRIPTION OF THE MACHINE

Any modification to the machine, altering the initial properties of the machine, can only be carried out by Saint-Gobain Abrasives S.A., which alone is authorized to confirm the conformity of the machine. Saint-Gobain Abrasives S.A. retains the right to make any technical or design changes to the machine without prior notice.

2.1 *Brief description*

A robust and high-performance machine, the CG CLEAN 430 is specially designed for maintaining and cleaning floor. Cleaning helps maintain a clean and healthy floor. It can also make a light polishing.

2.2 Composition



1	Dead man handle		
2	Adjustment handle		
3	Water tank		
4	Frame		
5	Engine head		

Dead man handle (1)

The dead-man handle allows the machine to be started while being very safe for the user.

Adjustment handle (2)

A hook adjusts the height of the man-dead handle to fit each user

Water tank (3)

Allows to be autonomous in water with a capacity of 20L

Frame (4)

The chassis has a solid but compact construction. It can be separated from the motor head for easy transport.

Engine head (5)

Allows cleaning and polishing.

2.3 Technical data

	CG CLEAN 430 230V	CG CLEAN 430 110V
Engine	1.5 kW / 2 HP 230V 1~ 50 Hz	1.5 kW / 2 HP 110V 1~ 50 Hz
Working width	430 mm	
Number of heads	1	
Diameter of a head	430 mm	
Rotational speed	1400 ^{min-1}	
Suction diameter	Ø 40 mm	
Dimensions of unfolded machine (L x W x H)	630 x 430 x 1280 mm	
Mass	40 kg	
IP	IP 65	

2.4 Vibration emission statement

Declared vibration emission value according to **EN 12096**

Machine Model / Code	Measured emission value vibration a m/s ²	Uncertainty K m/s ²	Tool used Model / Code
CG CLEAN 430 230V 70184632740 CG CLEAN 430 110V 70184633138	1.2	0.5	Lutron Type: VB-8201HA Serial Number: Q258053

- Values determined according to the procedure described in Annex F of **EN 13862**
- The measurements are made with new machines. The actual values on site can vary significantly (from single to double) with the conditions of use, depending on:
 - Treated materials
 - Machine wear
 - Lack of maintenance
 - Tool not suitable for application
 - Tool in poor condition
 - Non-specialized operator
 - Etc...
- The time of exposure to vibration is also a function of the work performance (related to the adequacy machine / tool / material to be treated / operator)
- In assessing the risks due to hand-arm vibration, account shall also be taken, over a working day, of the time of actual use of the machine at full capacity; It is not uncommon to find that this time of actual use is limited to 50% of the total working time, taking into account all stops (breaks, preparation of work, deployment of the machine, assembly of tools, etc.).

2.5 Noise emission declaration

Machine Model / Code	Sound pressure level	Uncertainty K
CG CLEAN 430 230V 70184632740	60 dB(A)*	2.5 dB(A)
CG CLEAN 430 110V 70184633138		

*Average value of four-point measurements with a sound level meter at two meters

- The measurements are made with new machines. Actual values on site may vary with conditions of use, depending on:
 - Machine wear
 - Lack of maintenance
 - Tool not suitable for application
 - Tool in poor condition
 - Non-specialized operator
 - Etc...
- The measured values relate to an operator, in a normal position of use, as described in this manual.

3 ASSEMBLY AND START-UP

The machine is delivered assembled, fully equipped and ready to operate. Before using the machine for the first time, please follow these few instructions.

3.1 *Adjusting the height of the man-dead handle*

You can adjust the height of the man-dead handle to have a comfortable position. To do this:

- Hold the adjustment handle to release the rotation of the man-dead handle.
- Adjusts the height of the handle. Release the handle to lock the position.



3.2 Mounting tools

3.2.1 Brush

To change or mount the brushes please follow these steps:

- Turn off the power supply to the machine and disconnect it from the electrical network.
- Set the dead-man handle to the highest position with the adjustment handle. Lay down the machine.



- To set up a brush, simply screw it using the screws provided for this purpose. (**CAUTION:** do not forget to put the metal plate)



3.2.2 Support for non-woven pads

To use the non-woven pads, you need a specific support.

To set this support, you must:

- Turn off the power supply to the machine and disconnect it from the electrical network.
- Set the dead-man handle to the highest position using the adjustment handle. Lay down the machine.



- To set up the support tray, simply screw it using the screws provided for this purpose. (**CAUTION:** do not forget to put the metal plate)



- Set up the desired tool



3.3 Mode de operation

It is possible to change the position of the head with the chassis. This allows to have 2 working modes.

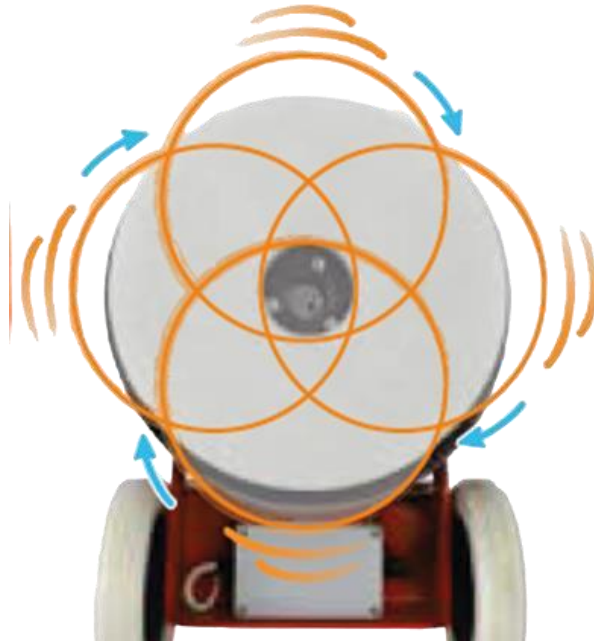
It is necessary to change the position of the 2 indexers



<p>Sanding mode: All weight on head, more aggressive.</p>	<p>Grinding mode: Wheels on the ground, more maneuverable.</p>

3.4 *Orbital système*

The orbital system allows the machine to be stable in operation.



3.5 *Water Use*

It is possible to use water when using the machine. To do this, simply operate the handle.



3.6 *Starting the machine*

- Adjust the height of the man-dead handle in a comfortable position for you.
- Press on the button below the handle
- Then tighten one of the two handles (right or left)
- Release the button

As long as one of the two handles is held tight the machine remains in operation. As soon as the two handles are released the machine stops.



4 USE OF THE CG CLEAN 430

4.1 *Work environment*

Before starting the work, check the following:

- Free the machine installation site from anything that could hinder the progress of the work.
- Ensure proper lighting of the site.
- Place the electrical wires and dust hose in such a way as to avoid any possibility of damage by the tools.
- Ensure that the view is constantly clear on the evolution of the machine
- Ensure that it is possible to intervene at any time in the flow of operations.
- Keep any other person away from the area of activity, to avoid any accident.

4.2 *Method of work*

The CG CLEAN 430 is a manual driving machine.

To obtain an optimal result when working with the machine, it must not stagnate at one point, it must on the contrary be in perpetual motion under penalty of seriously degrading the floor.

For each tool chosen (depending on the work to be done), here are the different steps to follow:

- Set up the tools (Do not forget to disconnect the machine before any intervention)
- Start the machine.
- Carry out a passage with the machine on the entire surface to be treated.
- Turn off the machine.
- Check the condition of the floor.
- If necessary, the previous steps can be repeated until the desired result is obtained.

5 TRANSPORT AND STORAGE OF THE CG CLEAN 430

Follow the instructions below for the transport and storage of the machine.

5.1 *Safety in transport*

Always dismantle tools before transporting or moving the machine.

5.2 *Conduct of transport and lifting*

The machine can be moved on flat ground using its wheels. Elevate the grinding head of the machine by pressing the man-dead handle so that it no longer touches the ground and then move the machine using its wheels.

A carrying handle is provided, for manual transport.

The machine can be split in two (the grinding head on one side and the frame on the other) for easy transport and loading/unloading of the machine.



To do this:

- Unplug the electrical outlet
- Unscrew the 2 screws



To reassemble the machine, perform the operations in the opposite order.

5.3 Machine storage

Before a long period of machine inactivity, clean the machine completely. Store the machine in a dry, clean, temperature-stable place.

6 MAINTENANCE

In order to maintain quality over time, during the preparation of your floors and for a safe and trouble-free operation of the machine, follow the following maintenance plan:

		Before the start of labor	During tool switching	At the end of the day	Weekly	During an outage	After damage
Whole machine	Visual inspection (general condition, tightness)						
	Clean						
Tool and removable housing	Clean						
Electric motor cooling fins	Clean						
Motor housing	Clean						
Accessible screws and nuts	Tighten						

Machine maintenance

Perform machine maintenance with the engine off and tools stationary. Separates the machine from the electrical network before carrying out its maintenance.

Machine cleaning

The lifespan of your machine depends a lot on its maintenance. Cleanit at the end of each day.

7 BREAKDOWNS: CAUSES AND REPAIR

7.1 Failure behavior

In the event of a breakdown during use, turn off the machine, and disconnect it from the electrical network. Work on the electrical system of the machine can only be carried out by a qualified electrician.

7.2 Instructions for defect detection and remedies

Failure	Possible source	Resolution
Difficulty starting	No electricity	Check the fuse of your power supply
	Power cable section too weak	Change power cable
	Problem with the switch	Can only be solved by a qualified electrician
	Problem with the engine	Consult an electric motor maintenance workshop
	Faulty power cable	Change r power cable

7.3 *After-sales service*

When ordering spare parts, always indicate:

- a. The serial number (seven digits)
- b. Part Number
- c. Exact description
- d. Number of rooms desired
- e. Exact address
- f. Please avoid indications such as "as soon as possible" or "urgent" but clearly indicate the desired shipping method: "express", "by plane", etc.

If you do not indicate the desired shipping method, we will send the parts by the means considered the most reasonable, without necessarily being the fastest.

With accurate indications, you will avoid problems and sending errors.

In case of uncertainty, please send us the defective part.

In the event that the parts are covered by the warranty, the shipment of the defective part is mandatory.

Order engine spare parts directly from the manufacturer or a representative: you will save time and money!

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7.4 Parts

For spare parts lists, please visit the Norton Clipper Aftermarket website at:

<https://spareparts.nortonabrasives.com>

For quick access, you can also use the QR Code below using your mobile phone:



This electronic catalog provides you with exploded and spare parts lists for different Norton Clipper machines so you can find the references you need.

You can get technical support, spare parts and diamond blades from our local distributors.

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