

**NORTON**

SAINT-GOBAIN

***clipper***

Transforming  
surfaces  
...and beyond

# CM 42 D

## OPERATING INSTRUCTIONS

Translation of the original instructions







The undersigned manufacturer:

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

Declares that this product:

Masonry Saws: **CM 42 D 230V**

Code: **70184633787**

is in conformity with the following Directives:

- **"MACHINES" 2006/42/CE**
- **"ELECTROMAGNETIC COMPATIBILITY" 2014/30/UE**
- **"NOISE" 2000/14/CE**

and European standard:

- **EN 12418 – Masonry and stone cutting-off machines – Safety**

Valid for machines as of serial number: 4503689773001

Storage site for the technical documents :

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

This declaration of conformity loses its validity when the product is converted or modified without agreement.

Bascharage, Luxembourg, 26.05.2024

A handwritten signature in black ink, appearing to read "Genuardi", is written over a light blue horizontal line.

Fabrice Genuardi, executive officer and responsible for the technical file.  
Bascharage, Luxembourg



## Declaration of conformity

The undersigned manufacturer:

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

Declares that this product:

Masonry Saws: **CM 42 D 230V**

Code: **70184633787**

is in conformity with the following standard:

- ***Supply of Machinery (Safety) Regulations 2008***
- ***Electromagnetic Compatibility Regulations 2016***
- ***Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001***

and European standard:

- ***EN 12418 – Masonry and stone cutting-off machines – Safety***

Valid for machines with a serial number greater than: 4503689773001

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Bascharage, Luxembourg, 26.05.2024

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# CM 42 D

## OPERATING INSTRUCTIONS

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## 1 BASIC SAFETY INSTRUCTIONS

The CM 42 D is exclusively designed for the dry cutting of construction products mainly on construction sites.

Uses other than the manufacturer's instructions shall be considered as contravening the regulations. The manufacturer shall not be held responsible for any resulting damage. Any risk shall be borne entirely by the user. Observing the operating instructions and compliance with inspection and servicing requirements shall also be considered as included under use in accordance with the regulations.

### 1.1 Symbols

Important warnings and pieces of advice are indicated on the machine using symbols. The following symbols are used on the machine:



Read operator's instructions



Ear protection must be worn



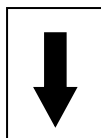
Hand protection must be worn



Respiratory protection mask  
must be worn



Eye protection must be worn










Rotation direction of the blade



Danger: Risk of cut

## 1.2 Machine plate

Important data can be found on the following plate located on the machine:

 <b>SAINT-GOBAIN</b> 190, Bd. J.F. Kennedy L-4930 BASCHARAGE LUXEMBOURG	<b>Code:</b> Machine Code	<b>Year:</b> Year of production	 = Ø Maximum blade mm	  
	<b>Mod:</b> Machine Model	<b>W=</b> Weight kg	 = Ø Bore mm	
	<b>EN:</b> Safety standard	<b>P=</b> Power kW	 = Blade speed RPM	
	<b>Type:</b> Machine type	<b>Serial N°:</b> Serial number		

## 1.3 Safety instructions for operating phases

### Before commencing work

- Before commencing work, make yourself familiar with the working environment at the place of use. The working environment includes obstacles in the area of work and maneuver, the firmness of the floor, necessary protection at the site relating to public thoroughfares and the availability of help in the event of accidents.
- Check for correct mounting of the blade regularly.
- Immediately remove damaged or badly worn blades, as they endanger the operator whilst rotating.
- Only fit NORTON CLIPPER diamond blades to the machine! The use of other tools can damage the machine!
- Attention is drawn to the use of BS2092 safety goggles in conformity with specified Processes No.8 of the Protection of Eyes Regulation 1974, Regulation 2(2) Part 1.
- Use of ear and hand protection is compulsory.
- For security reasons, never leave the machine unattended, untied or unlocked.

### While the engine is running

- Do not move the machine whilst the blade is running idle.
- Always cut with the blade guard in position.

## 2 MACHINE DESCRIPTION

Any modification, which could lead to a change in the original characteristics of the machine, may be done only by Saint-Gobain Abrasives who shall confirm that the machine is still in conformity with the safety regulations.

### 2.1 Short description

The CM 42 D Masonry saw is designed for durability and high performance for onsite dry cutting operations of a wide range of masonry, refractory and natural stone products by vacuuming most of the dust produced by the cut. As with all other NORTON CLIPPER products, the operator will immediately appreciate the attention given to detail and quality of materials used in construction. The machine and its component parts are assembled to high standards assuring long life and minimum maintenance.

### 2.2 Purpose of use

The machine is designed for dry cutting of a large range of building and refractory materials, such as bricks, cobblestones, curbs... **It is not designed for cutting wood or metals.**

### 2.3 Layout





### Frame (1)

Rigid construction made of steel welded to gauge, reinforced with crossbeams. The frame has handling racks for forklift transport.

### Stand (2)

The machine is mounted on a stand with wide wheels. With the help of the transport handles (8), they allow the machine to be moved ergonomically in the upper or lower position. These swivel handles help to limit the size of the machine during storage. Gas springs, located in the tubes of the stand, make it easy to put the machine in the up position (cutting position) alone and easily.

### Suction System (3)

Consisting of a fixed suction groove under the table, a dust collector on the housing, a suction distributor, and the hoses supplied with the machine. This integrated system allows the dust produced by the cut to be channeled using a separately available vacuum cleaner.

### Cutting Head (4)

Spring loaded jig-welded steel console. The motor mounting points as well as the pivot are precision machined. A spring-loaded return device automatically returns the blade to the up position. A locking system allows straight-through cutting without any other accessory.

### Blade guard (5)

Made of welded steel. The 400mm diameter blade guard offers the operator and his environment maximum protection and excellent visibility of the workpiece to be cut. The blade guard is openable, allowing easy access to the motor shaft for checks or changing the blade when the engine is

stopped, while fully protecting the flange clamping nut when the blade guard is closed. The direction of rotation of the disc is indicated by an arrow on the side of the blade guard. Height-adjustable plexiglass plates (10) guide the dust generated during cutting to the dust collector attached to the back of the blade guard, ensuring that maximum dust is collected.

### **Electric Motor & Switch (6)**

2.2kW (1.8kW for 115V) electric motor. The undervoltage protection (NVR) in the switch prevents the machine from restarting unintentionally, for example after the power supply has been switched off and restored. The motor is equipped with thermal protection that stops the motor in the event of overload in two different situations:

1. Shutdown shortly after switching. The connection is not done correctly.
2. Stopping while cutting. The engine was overloaded.

### **Conveyor cart (7)**

Welded steel construction with material stops. The trolley guide system allows for precise cuts. Precise positioning of the material is possible thanks to the large surface area of the conveyor cart and the variable angle guide-a-cut. The table has an anti-dumping system and a locking latch.

### **Locking System (9)**

The CM 42 D is equipped with an indexable pin locking system. This system ensures the safety of the operator by maintaining the upper position of the machine during cutting.

## 2.4 Technical data

Electric motor	2,2 kW 230V with thermal overload protection
Electric motor protection	IP54
Max. blade diameter	400mm
Bore	25,4mm
Rotation speed of the blade	2800 min <sup>-1</sup>
Cutting depth mm	125mm (without reversing the material)
Flange diameter	90mm
Sound pressure level	80 dB (A) (ISO EN 11201)
Sound energy level	92 dB (A) (ISO EN 3744)
Max. cutting length mm	600mm (with dust extraction)
Table dimension (L x W)	500x590mm
Machine dimensions in upper position (L x W x H)	1110 x 700 x 1340 mm
Machine dimensions in lower position (L x W x H)	1180 x 700 x 945 mm
Weight of the complete machine	108 kg

## 2.5 Statement regarding the vibration emission

Declared value of vibration emission following **EN 12096**.

Machine Model / code	Measured value of vibration emission at m/s <sup>2</sup>	Uncertainty K m/s <sup>2</sup>	Tool used Model / code
<b>CM 42 D 230V 70184633787</b>	<2.5	0.5	Norton Clipper Pro Universal Laser

- The vibration value is lower and does not exceed 2.5 m / s.
- Values determined using the procedure described in the standard **EN 12418**.
- The measurements are made with new machines. Actual values may vary with site conditions, in terms of:
  - Materials worked
  - Wear Machine
  - Lack of maintenance
  - Inappropriate tool for application
  - Tool in poor condition
  - Unskilled operator
  - Etc...
- The exposure time to vibration is based on the performance of work (related to the adequacy Machine / Tool / worked material / operator)

When evaluating risks due to hand-arm vibration, you need to take into account effective usage at rated power of machine during a full day of work; quite often you will realise that effective utilisation time represents around 50% of overall duration of work. You have to consider, of course, breaks, water feeding, preparation of work, time to move the machine, disk mounting...

## 2.6 Statement regarding noise emission

Declared value of noise emission following **EN ISO 11201** and **NF EN ISO 3744**.

Machine Model / code	Sound Pressure level $L_{Peq}$ EN ISO 11201	Uncertainty K (Sound Pressure level $L_{Peq}$ EN ISO 11201)	Sound power level $L_{Weq}$ NF EN ISO 3744	Uncertainty K (Sound power level $L_{Weq}$ NF EN ISO 3744)
<b>CM 42 D 230V 70184633787</b>	80 dB(A)	2.5 dB(A)	92 dB(A)	4 dB(A)

- Values determined using the procedure described in the standard **EN 12418**.
- The measurements are made with new machines. Actual values may vary with site conditions, in terms of:
  - Wear Machine
  - Lack of maintenance
  - Inappropriate tool for application
  - Tool in poor condition
  - Unskilled operator
  - Etc...
- Measured values relate to an operator in normal use, as described in the manual position.

### 3 ASSEMBLY AND COMMISSIONING

The machine is delivered fully equipped (although without diamond blade). It is ready for operation when you mount the diamond blade. Before using the machine, follow the following instructions.

#### 3.1 *Implementation of elements*

The cutting head is locked in low position by a hexagonal nut. Replace it by the supplied indexable handle.

#### 3.2 *Tool assembly*

Only NORTON CLIPPER blades with a maximum diameter of 400 mm can be used with the CM 42 D.

All tools used must be selected regarding their maximum permitted cutting speed for the machine's maximum permitted rotation speed.

Before mounting a new blade into the machine, switch off the machine and isolate it from the main source of electricity.

To mount a new blade, follow these steps:

- Loosen the screw in front of the blade guard and open it. (Only half of the blade guard opens)
- Loosen the hexagonal nut on the blade shaft (**attention:** left threaded), which holds the removable outer flange, with the supplied wrench.
- Remove the outer flange.
- Clean the flanges and blade shaft and inspect for wear.
- Mount the blade on motor shaft ensuring that direction of rotation is correct. Wrong direction of rotation blunts the blade quickly (**attention:** use a dry cutting blade).
- Replace outer blade flange.
- Tighten the hexagonal nut (**attention:** left threaded), with the supplied wrench.
- Close the blade guard, tighten the screw on the front of the blade guard

**ATTENTION:** The blade bore must correspond exactly to the diameter of the blade shaft. Cracked or damaged bore is dangerous for the operator and for the machine.

#### 3.3 *Electrical connections*

Check that,

- The voltage/phase supply corresponds to the information indicated on the motor plate.
- Available power supply must have ground connection in conformity with safety regulations.
- The connecting cables should have at least a 2.5mm<sup>2</sup>-section per phase.

#### 3.4 *Connecting the suction*

It is important to connect the vacuum cleaner to the machine correctly. A hose of about 1m is provided.

##### 3.4.1 Vacuum cleaner to use

It is advisable to pair a Norton Clipper CV 340 UNO vacuum cleaner (Article No. 70184633786) with the CM 42 D. If you use another vacuum cleaner, make sure that the characteristics are at least equivalent, i.e., a flow rate of at least 340m<sup>3</sup>/h and a vacuum of about 250 mbar.

The type of filter is also important. Some filters can become clogged quickly, which will greatly interfere with dust extraction. In view of the type of particles produced when cutting building blocks, it is strongly recommended to use a vacuum cleaner with a filtration class M or higher.

Plug the vacuum into the suction distributor on the back of the machine before starting the job.

If the vacuum cleaner used has a servo socket, it is advisable to connect the machine to the vacuum cleaner to turn on both simultaneously, so that you don't forget to turn on the vacuum cleaner before cutting.

It is important to turn on the vacuum cleaner before starting the cuts.

#### 3.4.2 Quick cleaning of the vacuum cleaner

This part concerns CV 340 UNO (available separately):

The cutting produces a lot of dust, which tends to clog the filter which leads to a loss of flow which reduces the efficiency of the system. The CV 340 UNO has a semi-automatic filter cleaning, to clean the filter simply press the filter cleaning button which will start a filter cleaning sequence. When the vacuum cleaner is stopped, it also starts a cleaning sequence. Once this is done, the CV 340 UNO recovers a large part of its suction capacity.

It is advisable to clean the filter when the LED on the vacuum cleaner lights up or when a loss of efficiency is noticed.

A full bin also reduces the efficiency of the vacuum. Remember to empty it regularly.

### 3.5 *Starting the machine*

Open the cover on the switch and press the green button to start the machine. Either press on the red button or directly on the switch cover to stop the machine.

**ATTENTION:** During cutting, a large amount of dust is produced and diffused into the air. It is important to always make the cuts with a vacuum cleaner connected to the vacuum system and turned on at maximum suction power to collect most of the dust produced.

## 4 OPERATING THE MACHINE

You will find in this chapter some advice about where and how to put up the machine.

### 4.1 *Site of work*

#### 4.1.1 Siting the machine

- Remove from the site anything, which might hinder the working procedure!
- Make sure the site is sufficiently well lit!
- Observe manufacturer's conditions for connecting to power supplies!
- Place electric cables in such a way that damage is excluded!
- Make sure you have a continual adequate view of the working area so you can intervene in the working process at any time!
- Keep other staff out of the area, so you can work securely.

#### 4.1.2 Area dedicated for the use and maintenance of the machine

You should have 2 m in front of the machine and 1,5 m on both sides to get a comfortable use of the machine.

#### 4.1.3 Machine Installation

To use the CM 42 D correctly, it must be placed in the upper position and locked with the locking levers. (**ATTENTION:** never leave the machine in the up position without securing it with the locking levers)

#### 4.1.4 Installing the material and adjusting the plexiglass plates

Place the material to be cut on the table, it is advisable to have a smooth side on the top of the material for better dust channeling. If the material has roughness on its upper surface, it is advisable to turn it over to cut it.

Before cutting:

- Position the material under the plexiglass sheet
- Loosen the knurled screw
- Lower the plexiglass sheet until the brush is in contact with the material
- Tighten the knurled screw to maintain position
- Perform the same operation to adjust the other plexiglass plate
- Place the material in position to make the desired cut

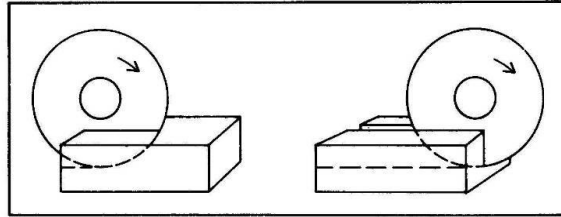
This adjustment should not be made while the disc is rotating. It can be done with or without a disc. Check that the movements of the table are not hindered by the plexiglass sheets

### 4.2 *Cutting process*

You should stand in front of the machine, with the cutter head handle in one hand, and the other hand on the table handle or on the material. Be especially careful not to bring your hands close to the working area of the disc.

To start the machine, lift the front cover of the switch and press the green button. To turn it off, press the red button, or directly on the switch cover.

#### 4.2.1 Full depth or fixed cutting



In full depth or fixed cutting, the cutting head is locked in a fixed position and the material is pushed into it as shown.

- Lower the cutting head using the handle to the desired depth. For cutting material in a single pass, the cutting head will be lowered so that the blade is at least 5-8mm below the surface of the moving carriage (for an optimal dust control and maximum depth of cut).
- Fix position by tightening the clamping device
- Put material on conveyor cart
- Adjust the plexiglass plates
- Start the vacuum cleaner and the machine  
**ATTENTION:** Do not forget to turn on the vacuum cleaner
- Push the conveyor cart slowly and **without undue pressure** towards the rotating blade and cut the material as shown on the picture.

The faster the cut, the more uncollected dust there can be.

#### 4.2.2 Step cutting

**ATTENTION:** A part of the suction is under the table, so this suction point will be ineffective with this type of cut. A large amount of dust will be produced during cutting and may not be collected, **so it is not advisable to cut in this way.**

**ATTENTION:** With this type of cut, only the aspiration behind the blade guard is used so it is possible that a big quantity of dust is not collected.

#### 4.2.3 General advice for the cutting

- Material weight under 30 kg and having dimensions smaller than 500x600x125mm can be cut with the machine.
- Select the right tools as recommended by the manufacturer depending on the material to be worked, the working procedure (dry cut) to be carried out and the required efficiency.  
**ATTENTION:** Use a disc that is compatible with dry cutting
- Before commencing work make sure tools are firmly seated!
- Before starting the work, check that the vacuum cleaner is connected to the machine.
- Before starting the cut, turn on the vacuum cleaner to collect the dust produced by the cut.
- **ATTENTION:** The faster the cut, the more uncollected dust there can be.
- In case the thermal protection trips, wait until the motor has cooled down before starting the machine again.

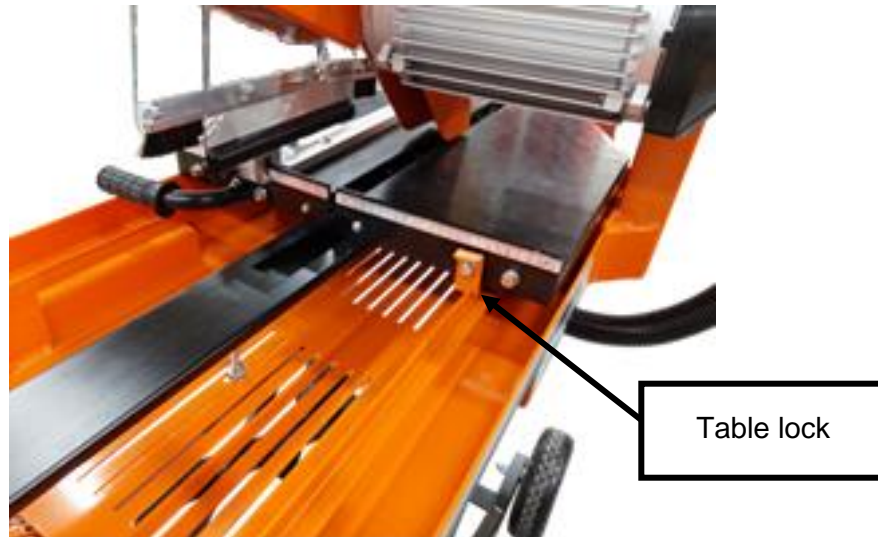
## 5 TRANSPORT AND STORING

When transporting the machine, be sure to lock the cutting head and lock the table in the rear position to prevent them from shifting during travel, which would cause a significant risk of injury.

### 5.1 *Changing the position of the machine*

When the CM 42 D is in the lower position, to put it in the upper position, it is necessary to:

- Lock the table in the back position to reduce the risk of injury



- Fold the transport handles below the tray so that they do not get in the way during the machine lifting operation
- Unlock the indexable pins at the stand



- Position your feet on the steps of the machine
- Grasp the machine by the handle inside the tray
- Push down with your feet on the steps of the machine while simultaneously pulling the lifting handle upwards. A slight impulse will trigger the ascent of the machine and then the gas springs will assist the ascent
- Once in the upper position, lock the indexable pins to secure the machine

Never leave the machine in the upper position without securing it with indexable pins

To set the machine to the down position, you need to:

- Lock the table in the back position to reduce the risk of injury

- Fold the transport handles below the tray so that they do not get in the way during lowering operation
- Unlock the indexable pins at the stand
- Grasp the machine by the handle inside the bin
- Push the handle to overcome the force of the gas springs to lower the machine to the lower position
- Once in the lower position, lock the indexable pins

When the machine is lowered, it is possible that it will be lowered quickly at the end of the travel, rubber stops at the level of the stand are provided to avoid too violent impact.

Even in the lower position, the machine position must always be locked with the indexing pins.

## 5.2 *Securing for transport*

Before transporting the machine, always remove the blade. Lock the conveyor thanks to the latch. It is advisable to lock the table in the rear position of the machine to have an optimal distribution of the machine's mass when moving by the carrying handles.

**ATTENTION:** Make sure that the position of the machine (high or low) is locked using the indexing pins

## 5.3 *Transportation procedure*

The machine can be moved in two ways, whether the machine is in the upper or lower position:

- Using the transport handles and wheels to move the machine. It is advisable to lock the table in the rear position of the machine to have an optimal distribution of the machine's weight.



- Using a forklift to move the machine. When transporting by forklift or pallet truck, please use only the supports provided for this purpose under the machine tray.

For safety reasons, it is strongly recommended to lock the table in one of the two positions, even when moving by forklift.



When transporting it in a vehicle, the machine should be in the lower position, the position should be locked by the index pins, the cutting head and table should be locked, and the blade should be removed. You can secure the machine in the vehicle with straps attached to the lower bars of the chassis.

**The machine does not have lifting hooks.**

#### **5.4 Long period of inactivity**

If the machine is not going to be used for a long period, please take the following measures:

- Completely clean the machine
- The storage site must be clean, dry and at a constant temperature.

## 6 MAINTENANCE AND SERVICING

To ensure a long-term quality from the cutting with the CM 42 D, please follow the maintenance plan below:

		At the beginning of a working day	During the change of tool	At the end of a working day	Every week	After a fault	After a damage
Whole machine	Visual control (general aspect, water tightness)						
	Clean						
Flange and blade fixing devices	Clean						
Motor cooling fans	Clean						
Cart and louvers	Clean						
Vacuum groove	Clean						
Cart guiding bars	Clean						
Motor housing	Clean						
Dust collector guide	Lubricate						
Reachable nuts and screws	Tighten						

### Maintenance of the machine

Always perform the maintenance of the machine with the machine isolated from the electrical supply.

### Lubrication

The movement of the dust collector must be smooth for a comfortable use of the machine, if this movement is difficult, it is advisable to put grease at the level of the guide to make it smooth. To do this, unscrew the covers on the blade guard to access the guide.

### Cleaning of the machine

Your machine will last longer if you clean it thoroughly after each day of work, especially, vacuum groove, table and this louvers, motor, and blade flange.

### Vacuum cleaner

The machine's ability to collect dust depends a lot on the vacuum cleaner you use. Remember to regularly empty and clean your vacuum cleaner.

## 7 FAULTS: CAUSES AND CURES

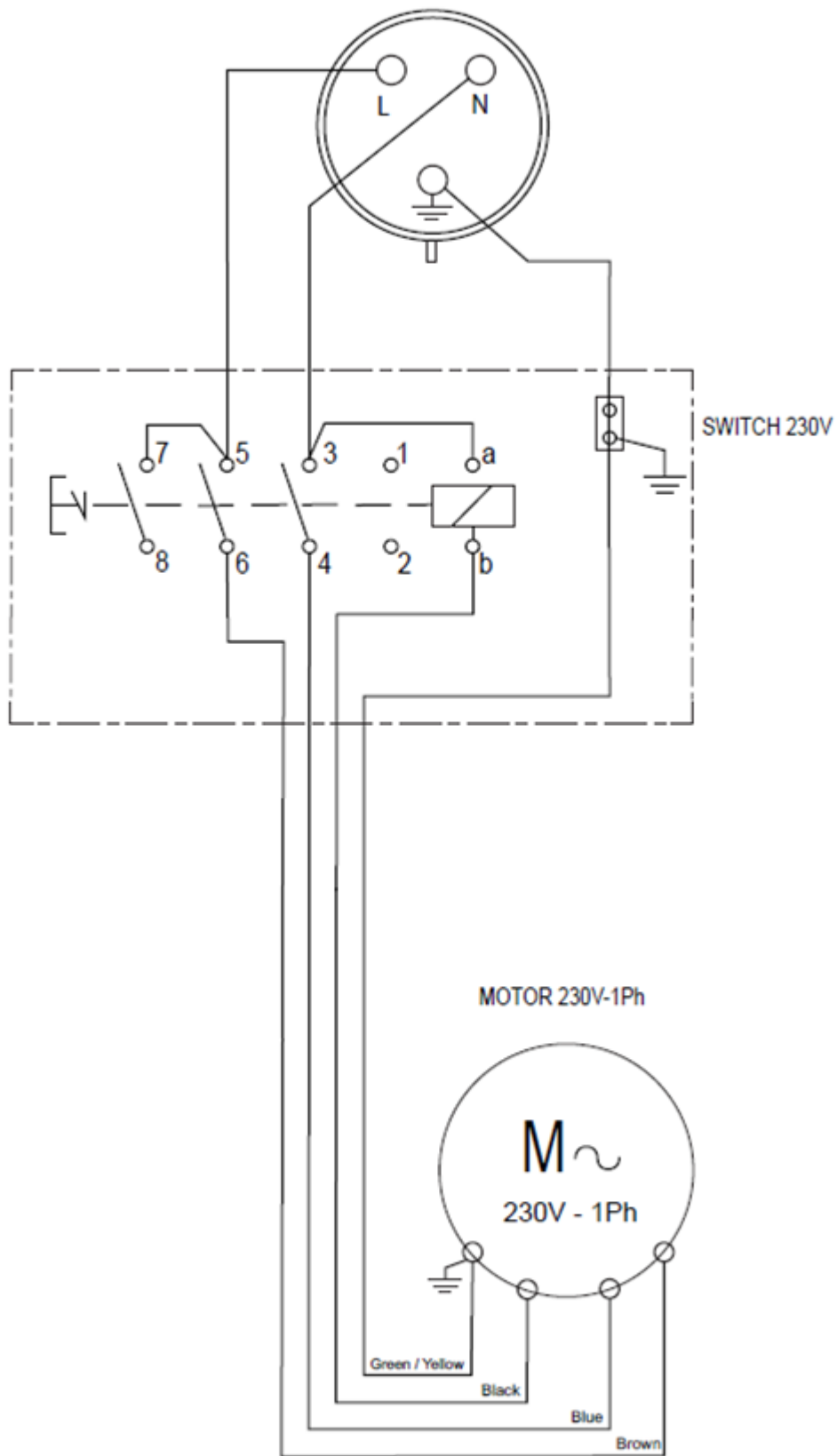
### 7.1 *Fault-finding procedures*

Should any fault occur during the use of the machine, turn it off, and isolate it from the electrical supply. Any works dealing with the electrical system or supply of the machine can only be carried out by a qualified electrician.

### 7.2 *Trouble-shooting guide*

Trouble	Possible source	Resolution
Motor is not running	No electricity	Check the electrical supply (fuse for example)
	Connection cable section too small	Change connection cable
	Defective switch	CAUTION: can only be solved by a qualified electrician
	Defective motor	Change motor or contact motor manufacturer
	Defective connection cable	Change connection cable
Dust is not vacuumed properly	The vacuum cleaner is not on	Turn on the vacuum cleaner
	The vacuum cleaner is not properly connected to the machine	Connect the vacuum cleaner correctly
	The vacuum cleaner no longer vacuums properly	Clean the vacuum cleaner filter with the button provided Empty and clean the vacuum cleaner Change the vacuum cleaner if the problem persists
	The vacuum cleaner is not powerful enough to suck up dust	Changing your vacuum cleaner
	The disc is not or not enough in the table groove	Lower the disc to fit into the groove
	Cutting is too fast	Cut slowly
The LED on the vacuum cleaner stays on after cleaning the filters	Le bac de l'aspirateur est plein	Empty the bin
Motor stops during the cutting, but can be restarted after a short period (overload protection)	Cutting is too fast	Cut slowly
	Blade is blunt or glazed	Sharpen the blade every 10-15 cuts in calcareous stone
	Defective blade	Change blade
	Wrong blade specification for the application	Change blade

7.3 *Circuit diagram*



## **7.4 Customer service**

When ordering spare parts, please mention:

- The serial number (7 digits).
- The code of the part.
- The exact denomination.
- The number of parts required.
- The delivery address.
- Please indicate clearly the means of transportation required such as "express" or "by air". Without specific instructions, we will forward the parts through the means which seem appropriate to us --- but which is not always the quickest way.

Clear instructions will avoid problems and faulty deliveries.

If not sure, please send us the defective part.

In the case of a warranty claim, the part must always be returned for evaluation.

Spare parts for the motor can be ordered with the manufacturer of the motor or with their dealer, which is often quicker and cheaper.

This machine has been manufactured by: Saint-Gobain Abrasives S.A.

190, Bd. J. F. Kennedy

L- 4930 BASCHARAGE

Grand-duché de Luxembourg.

Tel.: 00352-50 401-1

<http://www.construction.norton.eu>

e-mail: [sales.nlx@saint-gobain.com](mailto:sales.nlx@saint-gobain.com)

## 7.5 Spare parts

In order to consult the spare parts lists, we invite you to visit the after-sales website of Norton Clipper by using the following address:

<https://spareparts.nortonabrasives.com>

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



This electronic catalogue provides exploded views and spare parts lists for different machines designed by Norton Clipper so you can find references you need.

Guarantee can be claimed, and technical support obtained from your local distributor where machines, spare parts and consumables can be ordered as well:





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