

TT 200 EM

OPERATING INSTRUCTIONS



NORTON
SAINT-GOBAIN®

clipper®



Le constructeur soussigné:

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

Déclare que le matériel neuf désigné ci-après :

Scie de carrelage: **TT 200 (230V)**
TT200 (115V)

Code : **70184625701**

Code : **70184628688**

est conforme aux dispositions des Directives :

- **"MACHINES" 2006/42/CE**
- **"BASSE TENSION" 73/23/CE**
- **"Compatibilité électromagnétique" 2004/108/CE**



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Machine Design Manager

TT 200 EM

OPERATING INSTRUCTIONS

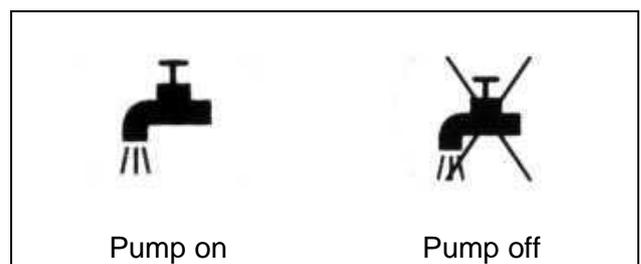
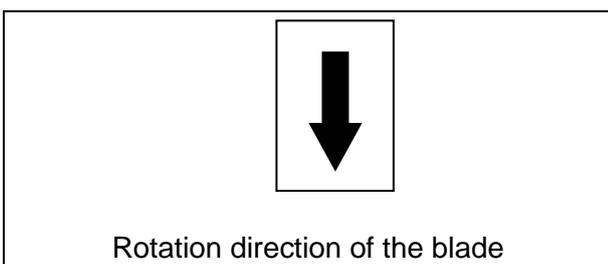
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1 Basic Safety Instructions

The TT200EM is exclusively designed for the cutting of tiles 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.

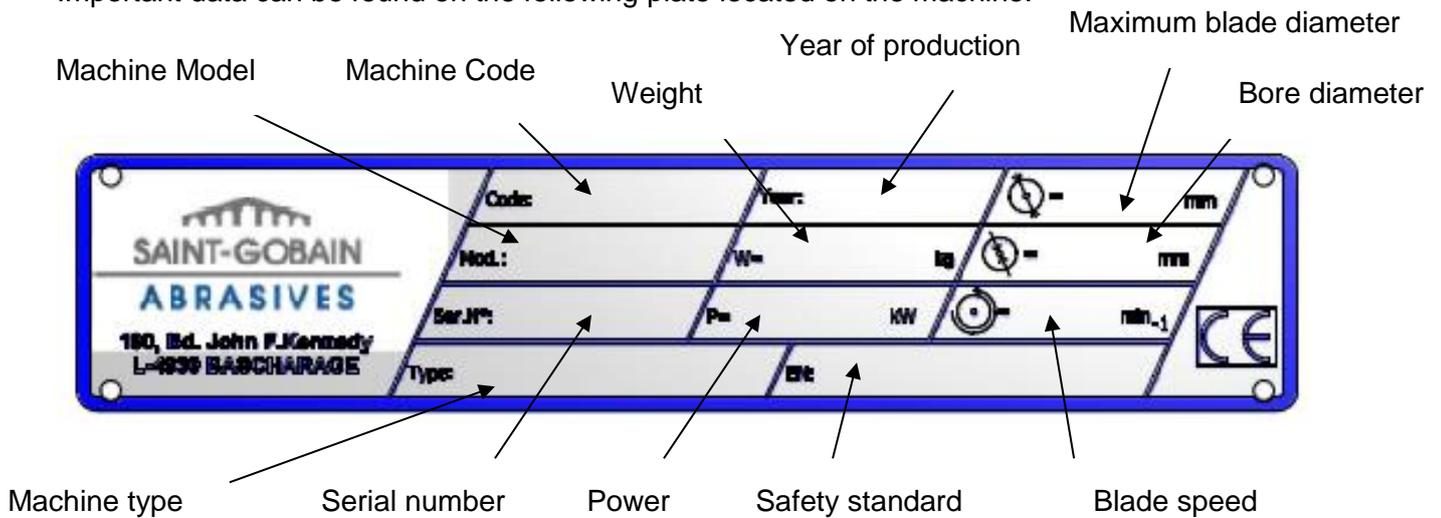
1.1 Symbols

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



1.2 Machine plate

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



1.3 Safety instructions for particular 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 manoeuvre, the firmness of the floor, necessary protection at the site relating to public thoroughfares and the availability of help in the event of accidents.
- Site the machine on an even, firm and stable base!
- Check for correct mounting of the blade regularly.
- Immediately remove damaged or badly worn blades, as they endanger the operator whilst rotating.
- The material to be cut must be held securely in place on the table to allow no unexpected movement during cutting operation.
- Always cut with the blade guard in position.
- Only fit CLIPPER diamond blades with continuous rim to the machine! The use of other tools can damage the machine!
- Read the blades' specifications carefully to choose the correct tool for your application.
- 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.

Electrical powered machine

- Always turn off the machine and separate it from the main source of electricity before any work on the machine is done.
- Make all electrical connections securely to eliminate contact of live wires with spray water or dampness.
- When the machine is used with water, it is IMPERATIVE that you earth the machine properly. Let a qualified electrician check in case of doubt.
- In case of emergency, you can stop the machine by pushing on the front cover of the switch.
- In the event of the machine breaking down or stopping for no apparent reason, switch off the main electricity supply, even in case of power supply failure. Only a qualified electrician is allowed to investigate the trouble and remedy the fault.

Frame (1)

The frame is made of a strong plastic to ensure perfect rigidity. It supports the motor, the cutting table and the switch.

Cutting table (2)

Zink coated steel top for an excellent resistance to corrosion with engraved measurements for precise guide-a-cut alignment.

Electrical Motor and switch (3)

Motor with 800W. The ON-OFF switch also serves as emergency stop.

Bevel cut (4)

You can make bevel cuts with the machine by loosening the two screws on the side and pivoting the table.

Guide-a-cut (5)

The guide-a-cut can be adjusted to the desired cutting width. It is locked using two screws. A guide to make mitre cut is also supplied with the machine.

Blade guard (6)

Blade guard with 200mm-diameter blade capacity, which offers maximum operator protection and increased visibility of the work piece. The guard is assembled on the frame.

2.3 Technical Data

	230v	115v
Electric motor	800W	800W
Voltage	230V	115W
Protection rating	IP 54	IP54
Max. blade diameter	200 mm	200 mm
Bore	25,4 mm	25.4mm
Rotation speed of the blade	2950 min ⁻¹	2950 min ⁻¹
Flange diameter	50 mm	50 mm
Cutting depth mm	40 mm	40 mm
Cutting depth bevel cut	20 mm	20 mm
Sound pressure level	72 dB (A) (ISO EN 11201)	72 dB (A) (ISO EN 11201)
Sound energy level	80 dB (A) (ISO EN 3744)	80 dB (A) (ISO EN 3744)
Table dimension (LxW)	460x360 mm	460x360 mm
Machine dimensions (LxWxH)	510x400x230 mm	510x400x230 mm
Weights		
Machine cpl.	16 kg	16 kg
Ready for use (with water)	19 kg	19 kg

3 Assembly and commissioning

The machine is delivered fully equipped. It is ready for operation after assembly the diamond blade, the blade guard and the guide-a-cut, and after connection to the appropriate power supply.

3.1 Tool assembly

Only CLIPPER continuous rim blades with a maximum diameter of 200 mm can be used with the TT200EM.

All tools used must be selected with regard to 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 two screws on the side of the blade protection remove the front cover.
- Loosen the hexagonal nut which holds the removable outer flange on the blade shaft with the 19mm wrench and the special tool to lock the flange.
- Remove the outer flange.
- Loosen the two screws holding the blade guard support and remove it from the machine.
- Clean the flanges and blade shaft and inspect for wear.
- Mount the blade on the flange ensuring that the direction of rotation is correct (check with the arrow on the blade guard). Wrong direction of rotation blunts the blade quickly.
- Replace outer blade flange.
- Tighten hexagonal nut.
- Retighten the two screws holding the front cover, and reassemble the blade guard support on the table.

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.

3.2 Guide-a-cut assembly

To assemble the guide a cut:

- Put the guide a cut on the table.
- Use the handle on the side of the guide-a-cut to pinch it on the table

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 2.5mm²-section per phase.

3.4 Starting the machine

Press the green button to start the machine. Press on the red button to stop the machine. The red button is also the emergency switch.

3.5 Water cooling system

- Fill the water pan with clean water up to 5mm from the upper edge of the water tray.

- Ensure that water is delivered adequately to both sides of the blade, as insufficient water supply may result in premature failure of the diamond blade.
- Always make sure that there is enough water in the pan and refill if necessary.
- In case of frost, empty the water cooling system from its water.

4 Transport and storing

4.1 Securing for transport

Before transporting the machine, always remove the blade and empty the water pan.

4.2 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
- Empty the water system

The storage site must be clean, dry and at a constant temperature.

5 Operating the machine

5.1 Site of work

5.1.1 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 by the device 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.

5.1.2 Space required for operation and maintenance

Leave 2 m around the machine for usage and maintenance of the TT200EM.

5.2 Cutting methods

To use the machine correctly, you must face it with the two hands on the tile to be cut, pushing the tile against the blade. Always keep your hands away from the moving blade.

To set the guide-a-cut at the desired cutting width, release it, and use the two scales on the table to align the guide. Then tighten it back.

5.3 General advice for the cutting

- Only tiles with max. dimensions 400x400x6mm and max. weight 3kg can be cut with the machine.
- Before commencing work make sure tools are firmly seated!
- Select the right tools as recommended by the manufacturer depending on the material to be worked, the working procedure (dry or wet cut) to be carried out and the required efficiency.
- Make sure the water tray contains enough water.
- Set the guide-a-cut to the desired width of cut, using the two engraved measurements to align it correctly.
- Do not force on the motor. This machine is not designed for a continuous use.

6 Maintenance and servicing

To ensure a long-term quality from the cutting with the TT200EM, please follow the maintenance plan below:

		Begin of the day	During the changing of tool	End of the day or more often if required	Every week	After a fault	After a damage
Whole machine	Visual control (general aspect, watertightness)						
	Clean						
Flange and blade fixing devices	Clean						
Motor cooling fans	Clean						
Water pan	Clean						
Engine housing	Clean						
Reachable nuts and screws	Tighten up						

Maintenance of the machine

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

Lubrication

The TT200EM uses life-lubricated bearings. Therefore, you don't need to lubricate the machine at all.

Cleaning of the machine

Your machine will last longer if you clean it thoroughly after each day of work, especially water pan, motor and blade flange.

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 connection cable	Change connection cable
	Defective switch	CAUTION : can only be solved by qualified electrician
	Defective motor	Change motor or contact motor manufacturer
No water on the blade	Not enough water in the pan	Refill the water pan

7.3 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.

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

e-mail: sales.nlx@saint-gobain.com

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

Benelux and France:

From Saint-Gobain Abrasives S.A.
Free telephone numbers:
Belgium : 0 800 18951
France: 0 800 90 69 03
Holland: 0 8000 22 02 70
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