142-BR500

Portable cordless edgebander for ABS

Operationg instructions



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SCAN CODE

2022-07-12
142-BR500 IGM Portable Edgebander for ABS Manual EN v2.4.00 A4ob

Please read this manual thoroughly and follow the safety instructions in it! Technical changes and printing errors reserved!

Dear customer,
This manual contains important instructions and information for the installation and proper use of edgebanders BR500.
This manual is part of the machine and therefore it should not be kept elsewhere than in the vicinity of the machine so that you can be consulted at any time by you or other persons operating the machine.



Please read and follow the safety instructions!
Carefully read these instructions before using the machine. Operation of the machine will be simpler and you will also lower the risk of injury while eliminating the probability of incorrect operation and possible damage to the machine.
Because of our policy of constant improvement, the design, construction or pictures may differ slightly. Should you discover any mistakes, please contact us at podpora@igm.cz.

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1. DECLARATION OF CONFORMITY

The undersigned: IGM nástroje a stroje s.r.o.
Address: Ke Kopanině 560
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Czech Republic, EU
Phone no.: +420 220 950 910

Certifies the

Product: Manual Edgebander for ABS
Type: **BR500**
Manufacturer: CO-MATIC Machinery Co., Ltd.,No.473-16,
San Feng Road, Houli District, Taichung City,Taiwan, R.O.C. 42156

We declare under our own responsibility that the product described in this manual complies with the following norms: EN ISO 12100, EN ISO 13857, EN 349, EN953, EN 60204-1, EN ISO 11202, EN 55014-1, EN 55014-2 and is in accordance with the 2006/42/EC, 2004/108/EC, 2006/95/EC, 2002/95/EC.

Signed: Ivo Mlej
Managing Director

CE RoHS

2. WARRANTY SERVICE

The warranty is subject to Terms and Conditions and Warranty Conditions of IGM nástroje a stroje s.r.o., the current version of which are available at www.igmtools.com.

3. SAFETY INSTRUCTIONS

3.1 Notice

This machine is designed for work with wood and wooden materials.
Proper use also includes compliance with the regular operational and maintenance work described in this manual.

The machine can be operated only by persons familiar with the operation procedures, maintenance and are aware of potential risks.
Comply with the minimum age limits specified by law. The machine may only be used when in perfect technical condition.
All safety and protective components must be installed when operating the machine.

Besides these instructions, also adhere to the safety instructions of your country and to the generally recognized technical practices concerning the operation of woodworking machinery.

The manufacturer or the supplier are not responsible for any damage resulting from improper use.
Every user is responsible for their own actions.

Warranty cannot be claimed if any of the following principles are broken:
- Unsuitable work environment: high humidity, contamination.
- Damage caused by an improper assembly and/or improper storage.
- Use of damaged machinery.
- Failure to follow the operating instructions: transport, storage, assembly, putting into operation, cleaning and maintenance of the machine.
- Use of unauthorized spare parts.
- Unauthorized assembly of the machine.
- Do not use worn out spare parts.

3.2 General safety instructions

The machine can pose danger when improperly operated.

Thoroughly read the operating instructions and make sure that you understand everything before doing anything with the machine.

Keep this user manual clean and protect it from dirt and moisture; in case of re-selling, pass the manual onto the new owner.

Any alterations or changes to the machine are prohibited. Daily, before turning on the machine, make sure that it runs smoothly and that the protective covers are working. Replace any deficiencies or damaged parts. The machine may only be used when in perfect technical condition.

Use a hairnet or a hat to protect long hair. Wear tight-fitting clothes, remove all bracelets, rings, necklaces or ties. Wear work shoes only. In any case, do not wear casual shoes or sandals during work. Abide by the regulations of personal protection.

Always wear safety eyewear. Always use hearing protection.
Abide by the „safety“ instructions in this manual. Make sure you have enough space for your work.
Do not perform any operations that
are not suitable for this machine.

Make sure you have good lighting.

Make sure the power cord is not in your way when working. Keep your work area clean. Never touch the machine when it‘s running.

Make sure you are concentrating and paying attention. Use caution. Never work under the influence of drugs and/or alcohol.

Make sure there are no children around when working with the machine. Never leave the machine unattended. Always switch the machine off when leaving the workspace.
Do not place anything on the machine.

The repair of electrical components can be only carried out by a professional. Damaged electric cord must be replaced immediately.

Before banding, remove nails and any other foreign objects that could be in the way of your work.

The switch must be in the „OFF“ position before you connect the machine to the power supply.
Do not use the machine if the ON-OFF switch does not work correctly.

The use of any other accessories than recommended by this manual be hazardous.

When the power cord is connected, temperature shows up on the digital display but heating does NOT begin.

Make sure the cable is long enough and there is no excessive tension or bend over the table.
Keep away from flammable or explosive materials.

3.3 Risks

Risk exists even when using the machine according to the manual.

WATCH OUT! Heated glue may reach the temperatures of 200°C. Do not touch any hot parts.

The glue may contain harmful chemicals. Therefore, ensure sufficient ventilation of your workplace.

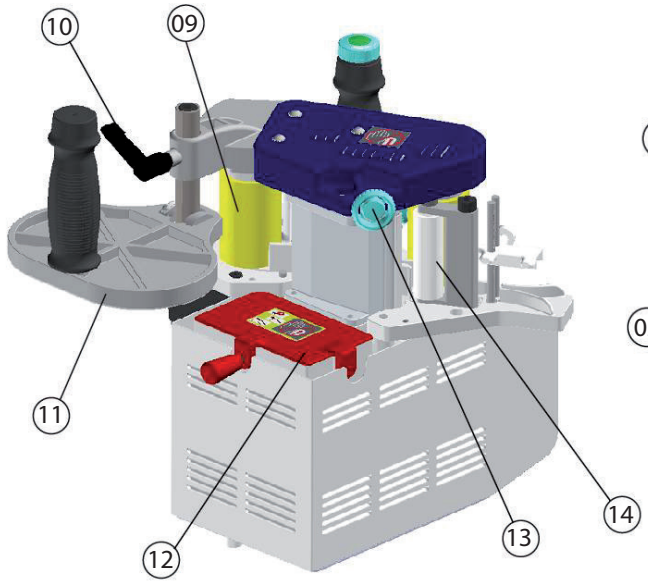
3.4 Important notice

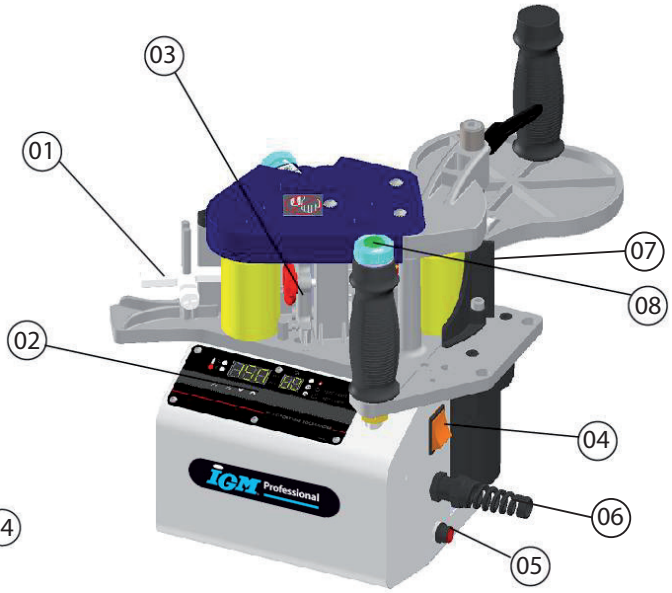
Make sure the machine has been off for at least 60 minutes before storing it in the portable case. That way, the glue in the container will cool down to 60°C. Use a piece of cloth to wipe any adhesive residues on the machine.
The Edgebander is designed for interior work. Do NOT use the machine outdoors!

If you want to prevent debris falling into the glue pot. Put on the lid. If debris is already in the pot, remove the glue, turn on the machine for approximately 3 minutes, the glue should come out easily now. Re-fill with glue again**.**

4. SPECIFICATIONS OF THE MACHINE

4.1 Machine description





1	Infeed tape guide	8	Speed regulation and off switch
2	Digital display - function settings	9	Outfeed roller
3	Set up of pressure of tape on application roller the	10	Support table locking lever
4	Main switch	11	Support table with a handle
5	Fuse	12	Glue pot cover
6	Cabel spring protection	13	Regulation of amount of glue
7	Corner guide for simple of inner corners glueing	14	Infeed roller pressure plate

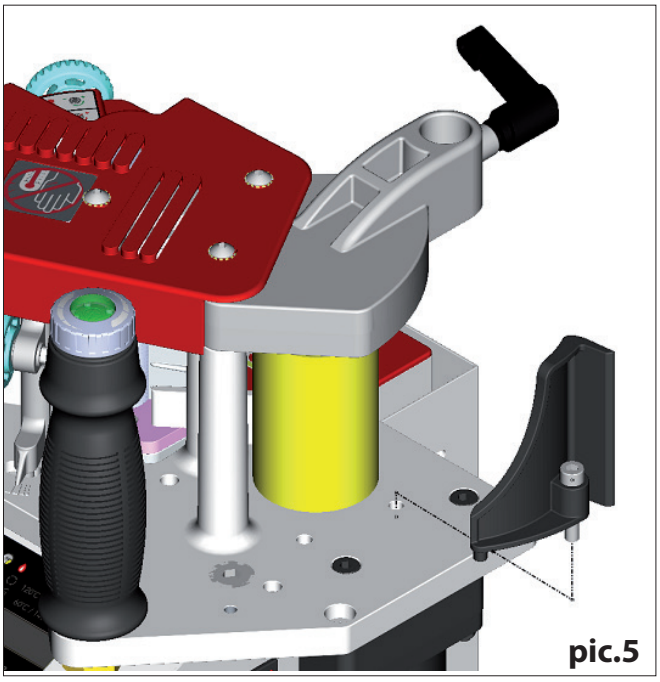
4.2 Technical data

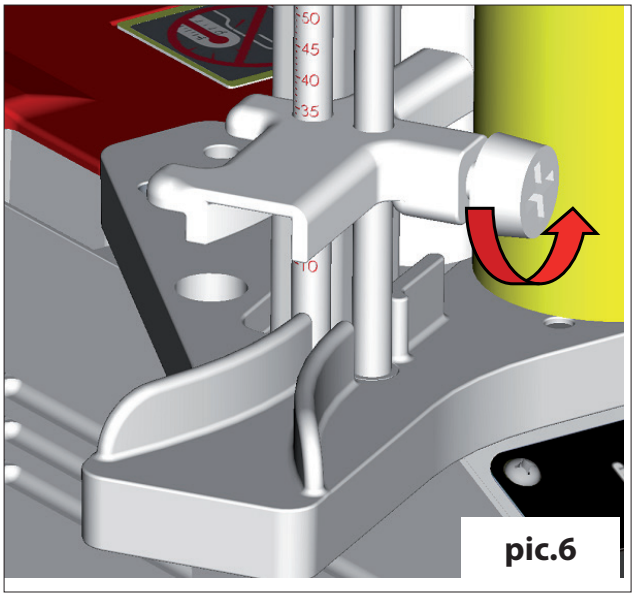
Input power		855 W / 230 V	Weight	8,8 kg
Tape thickness		0,4 - 3 mm	Shipping weight	11,1 kg
Tape width		10 - 65 mm	Warm-up time (120 °C)	4 minutes
Temperature range	MODE I	120 ° - 200 °C	Fuse	F 6 A (230 V)
	MODE II	80 ° - 155 °C	Cable length	5 m
Feed speed		2 - 6 m/min	Glue pot capacity	400 ml
Shipping size		35x30x37,5 cm		

4.3 Contents
Edgebander Support
table Corner guide End
trimmer
Light transport bag
Sample tape from calibration procedures

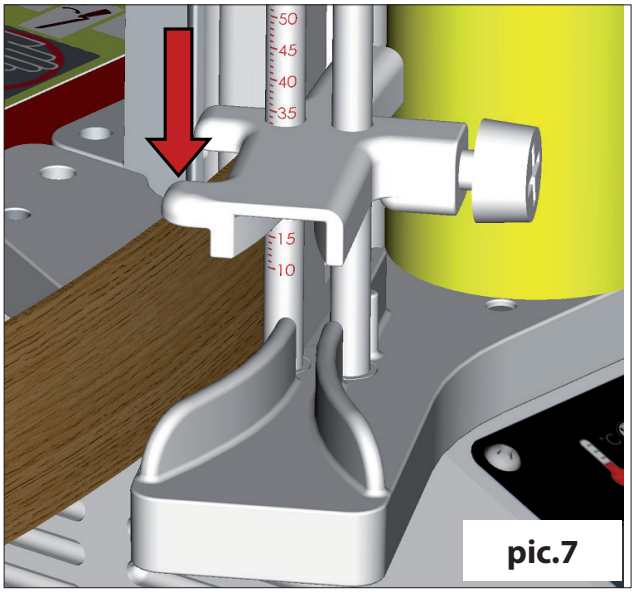
5. 5. TRANSPORT, UNPACKING AND ASSEMBLY
5.1 Transport and unpacking
The machine is not assembled due to transport. Assemble before operating. Remove the edgebander from the packaging and place on a flat surface. Check for any apparent transport damages, these could damage the machine or your health.

5.2 Assembly
5.2.1 Mounting the corner guide
- Equip the corner guide only when banding inner corners or a radius smaller than 50 mm. It would be getting in your way during other operations.
- Place the corner guide on your edgebander according to pic.5 and tighten the screw.

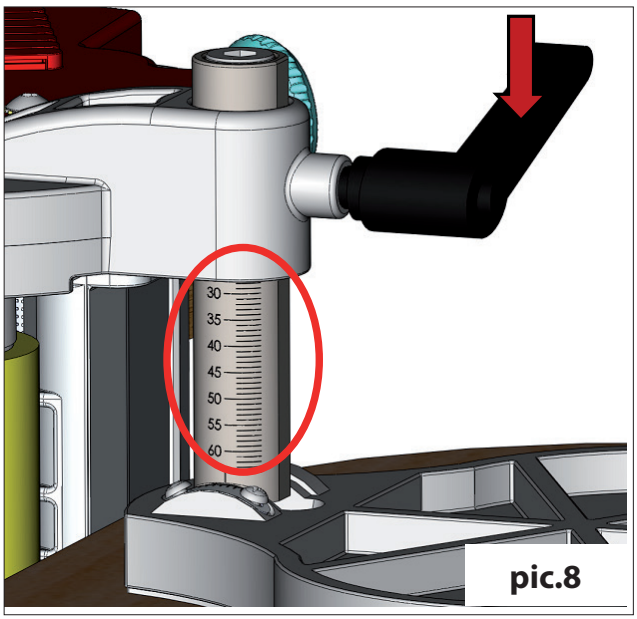

pic.5



pic.6



pic.7

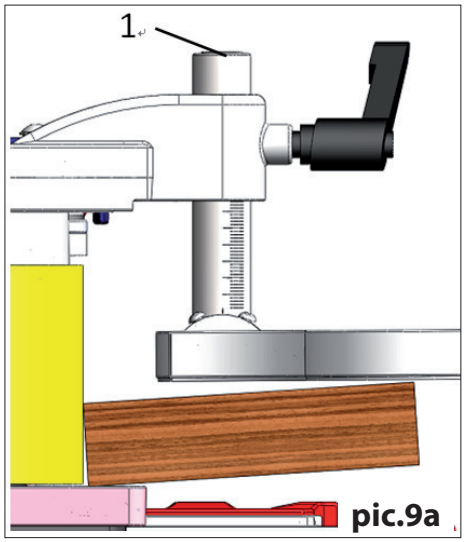


pic.8

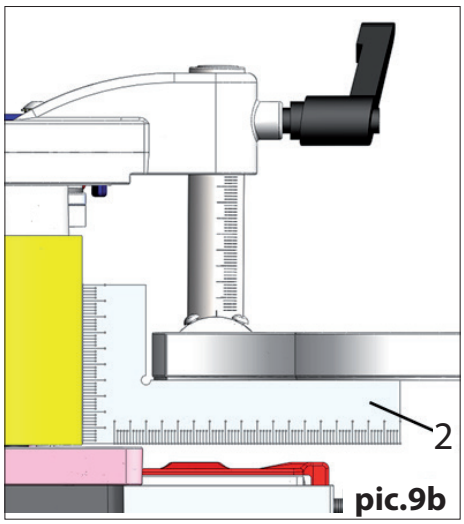
6. SET-UP AND ADJUSTMENT
6.1 Preparing for work
6.1.1 How to measure and set up tape width
- Loosen the screw on the tape stop (pic.6)
- Place the tape under the stop and measure the height (pic.7), tighten the screw.
- Measure the thickness of the banded piece and set up the support table accordingly, make sure to tighten the locking lever properly (pic.8)

6.1.2 Control and gauge set up of the support table

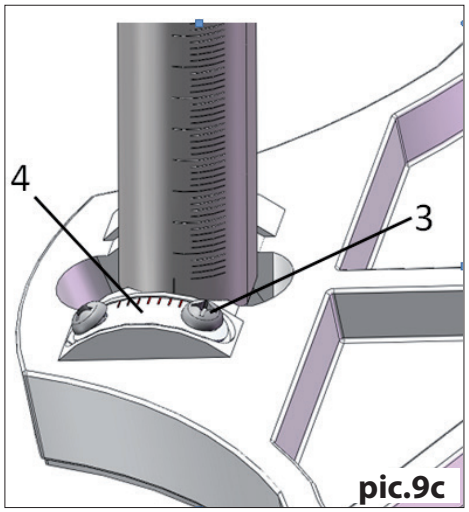
- The **pre-set** support table is perpendicular to the pressure plate. Place the support table on a mitre gauge (pic.2, gauge not supplied) to check proper allignment. If the table is not perpendicular, loosen the screw (1). Align the table according to the mitre gauge, tighten screw (1). Release screw (3) and set up the gauge (4) to„0", then tighten again.



pic.9a



pic.9b



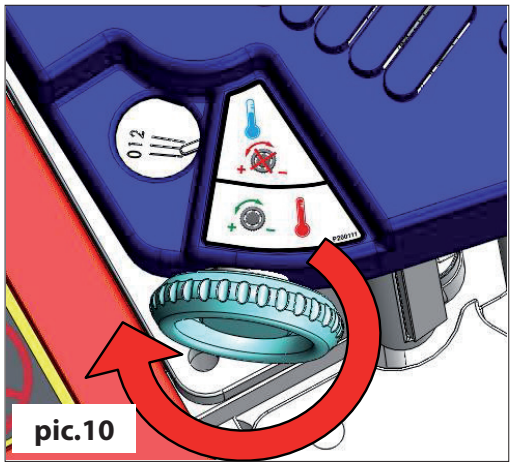
pic.9c

6.1.3 Adjusting the amount of applied glue The amount of glue is pre-set and should suit the majority of operations.

- If the amount of glue is not convenient. Prepare a test tape, warp up your machine and load the tape. Use the amount of glue adjustment knob to set the demanded quantity. Turning left adds and turning right decreases the amount of applied glue (pic.6) The scale displays the amount of glue.

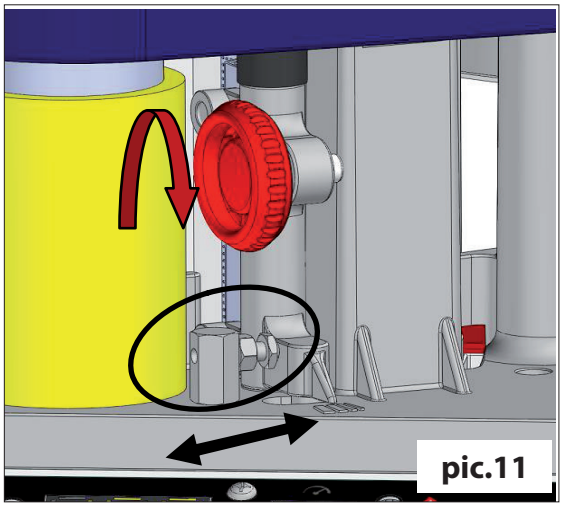
- Caution: Do not turn the adjustment knob until the glue has reached operating temperature.

- Too much glue overflows on the visible side of the tape. Not enough glue is not evenly applied along the whole width of the tape.


pic.10

6.1.4 Thickness of tape

Set up thickness only when you have a softer or thinner tape than 1 mm. Otherwise, the pressure automatically ajdusts to the tape. The thickness can be simply set by a turn of the knob (pic.11).


pic.11

6.1.5 Setting up tape length

- Measure the length of the banded edge and leave a bit more of the tape for final trimming.
- Apply enough pressure when trimming the edge, this will improve the finish.

6.1.6 Proper fastening before edgebanding
Fasten the workpiece to a worktop using clamps. Make sure the edge of the workpiece you will edgeband extends beyond the edge of your worktop. It may be more comfortable to use a vacuum suction cup. You can order one from IGM as an optional accessory. Use of the vacuum cup (pic.12)


pic.12

6.1.7 Refilling the adhesive
- Regularly check the amount of glue in the glue pot. We recommend to refill the glue when there is only half of the pot left.
- Loosen the screw on the cover so that it can be lifted.
DO NOT TOUCH THE COVER - it's hot.

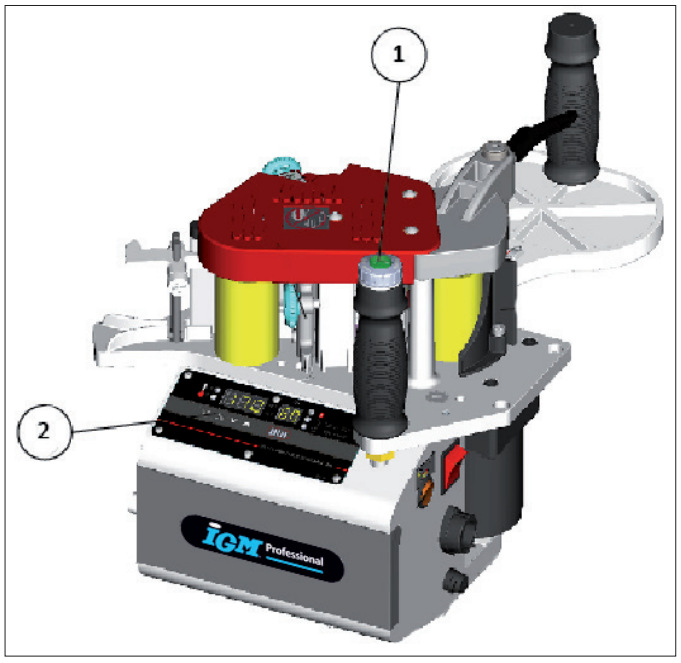

pic.13

6.2 Advice for proper operation
- Keep the machine clean throughout the whole operation.
- Store the workpiece and the tape at room temperature.
- Cold tape or workpiece can affect the quality of adhesion.
- Always maintain enough pressure on the tape when working. Insufficient pressure may result in a weak connection between the tape and the workpiece.
- Store your glue in a cool and dry place.
- A pot full of glue is enough for approximately (depending on the type of glue) 50 m of tape (width 25 mm) or 25 m of tape (width 65 mm).
- Make sure the glue has completely melted before working.
- Use glue supplied by IGM which has an operating temperature of 120-150 °C.
- Use the lowest feed speed when turning on the machine for the first time. Adjust the speed according to your experience and complexity of the workpiece.

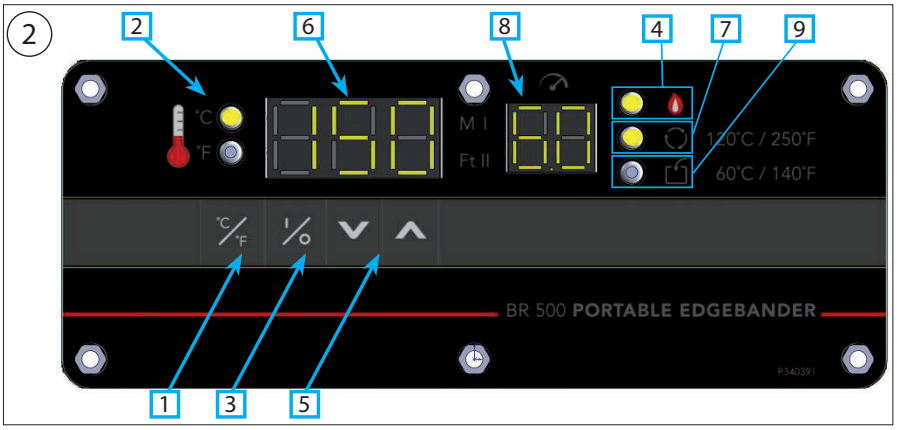
6.3 Standby mode
MODE I – operating mode (default setting after switching on)
MODE II – Standby mode

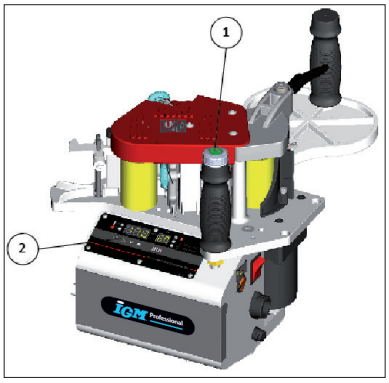
- The machine can be switched into a standby mode II when you need it ready immediately. The temperature will decrease by 50°C. So the glue isn't overburning while maintaining the glue in a preheated state.
When switched back to MODE I, the glue in the pot is warmed up far quicker to the desired temperature.
- After turning on, the edgebander automatically runs in MODE I, to switch modes hold for 3 seconds. When in MODE II, the current temperature is alternating with the temperature set-up on the display every 3 seconds.

6.4 Control panel features



1 	Feed speed control: the button turns the feed on and off. Turning the ring changes feed speed from 2-6 m/min (clockwise rotation increases speed).





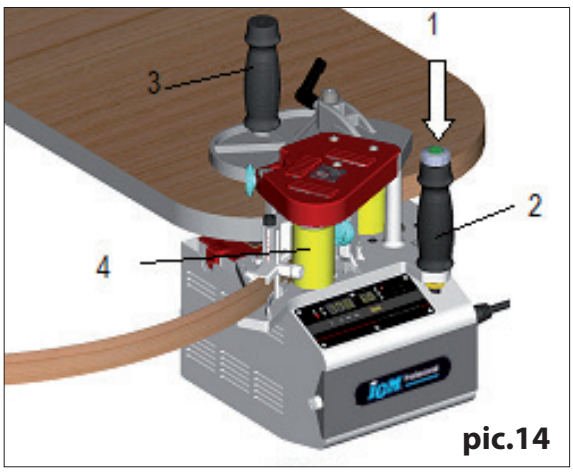
1	How to switch between °C a °F
2	When the light is on, the temperature is in °C and feed speed in m/min.
	When the light is on, the temperature is in °F and the feed speed is in Ft./min.
3	Heating switch; After turning on the main power switch, turn on the heating switch to begin heating the glue.
4	The glue is being heated when the light is on.
5	Temperature setup; The temperature changes by one degree after pressing the button once Quick set-up: by holding the button for 3 seconds, you will hear a beep and the temperature set-up will rise quickly.

6	The display shows the current temperature in the glue pot
7	Operating indicator light: lights up when the temperature is over 120 °C (250 F), you can speed up the heating by turning on the tape feeder.
8	Speed indicator
9	Safe storage light: When you turn off the heating, this light will light up. And will go out when the temperature in the glue pot goes below 60 °C (140 F). Now you can safely store your machine in the carry bag.

7. OPERATING THE MACHINE

7.1 Edgebanding

- Check for debris or dust in the glue pot, turn on the main switch and trigger the heating next to the display. The button on the handle (2) will light up when the temperature reaches 120°C, press the button (1) to accelerate the melting process. Make sure the glue is properly stirred up before working. Turn the feed off and place the tape on the infeed roller. Place the support table on the workpiece and hold the machine firmly with both hands (2), (3). Place the pressure roller approximately 5 cm from the workpiece.
Turn the feed on (1), and wait for the tape to reach the pressure roller. Press the tape to the workpiece using the pressure roller. Then allow the machine to run at its feed speed and only check the proper feed of the tape.



pic.14

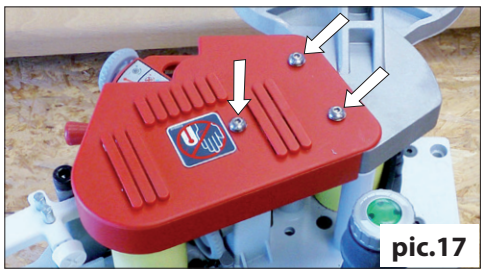
7.2 Stationary use

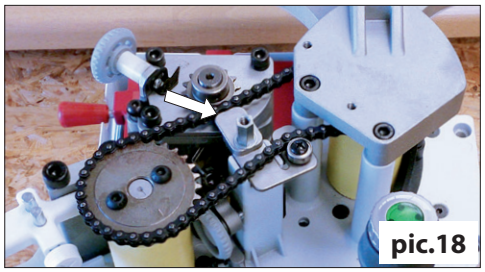
It's better to use the machine with a when banding smaller pieces, the worktable is available at IGMtools.com as an optional accessory. That way, you can band edges like on a stationary edgebander.

8. MAINTENANCE AND CONTROL

8.1 Maintenance after work

Clean the machine properly after every operation and get rid of any glue on the edgebander with a proper tool or a dissolvent to prevent glue build-up.
We recommend having the machine checked after 500 hours of work or every 6 months of use. During regular weekly maintenance, you should lubricate the timing chain and the pressure plate with silicone oil. Loosen screws, see (pic.17), and remove the plastic cover. Now you can lubricate the chain and the plate. After maintenance, place the cover back and tighten the screws.
To keep the glue pot clean, it has to be cleaned out **every two months or every 50 hours of edgebanding.** Remove the rest of the glue and refill with a new one.


pic.17


pic.18

The machine has to be turned off and disconnected from the power source during maintenance.

8.2 Preemptive control

- Regularly check the glue status in the glue pot. Refill the glue when the glue pot is half empty. The heater should be always submerged in the glue.

9. MALFUNCTION ASSISTANCE

9.1 BR500 error messages

The BR500 Edgebander is designed to detect malfunctions and to picture them on its display.
Er1 - Voltage error: the voltage is not optimal for the proper function of the machine.
Er2 - Engine error: please contact an authorized service to check on the function of the motor.
Er3 - Heating error: should the temperature exceed 220°C, contact the authorized service centre to check on the heating function.
Er4 - Internal error: please contact an authorized electrical service centre.

9.2 Solution to problems

Malfunction	Cause	Repair
Cannot turn on the machine	Damaged fuse	Replace the fuse (use a fuse with the same value - F6A(230V))
The tape is not completely covered with the glue	The glue is not properly melted	Open the glue pot and check if the glue has dissolved properly.
	The amount of glue in relation to the width of the tape is improperly set	Increase the amount of glue with the control knob. (see chapter 6.1.3)
	Deformed tape	Use a tape of better quality.
	The glue was applied poorly to the banding roller	Turn on the feed and let the glue circle between the applicator and the glue pot
The tape is not completely covered with the glue	The pressure roller isn't perpendicular to the edge of the workpiece	Adjust the angle of the support table so that it's perpendicular to the edge (see chapter 6.1.2)
	Overheating can degrade the properties of the glue	Replace the old glue in the pot with the new one
	The glue hasn't been heated to the right temperature	Check the label on the glue and set the temperature accordingly
The tape has twisted while banding	The feed speed is slower than the feed of the tape	Increase pressure on the workpiece, adjust feed rate

The tape is slipping on the infeed roller	Dust or debris on the infeed roller	Clean the infeed roller
The feed won't turn on	The glue isn't melted enough, the operating temperature hasn't been reached so far	The motor can be turned on after reaching 12 °C to ensure proper temperature for work.
Overheating	Malfunctioning temperature control	Let a qualified electrician replace the tempereature detector

10. PROTECTION OF THE ENVIRONMENT

Protect the environment.
Your machine contains materials that can be recycled.
Please, let specialized institutions handle the machine.

11.ACCESSORIES (spare parts)

iGM Tape Holder for Edgebander DR500-BR300 **142-BC25**
IGM Battery Set for Edgebander DR500 **142-LB24**
IGM PD80 Edgeband Trimmer **142-PD80**
IGM End Trimmer for Shaped and Straight Panels **M951**
IGM Fachmann Edge Banding Hand Trimmer **M950-00001**
IGM Worktable for Edgebander and Trimmer for DR500-BR300 **142-ST95A**
IGM Straightline Edgebanding and Trimming Kit for Worktable ST95A **142-ST97**
Glue Technomelt KS224 for IGM Manual Edgebanders - 1kg pack **M967-1**
Glue Technomelt KS224 for IGM Manual Edgebanders - 5kg pack **M967-5**
Glue Technomelt KS224 for IGM Manual Edgebanders - 25kg pack **M967-25**
IGM Vacuum Clamp One-sided, set **M964**
IGM Lever Valve for Vacuum Clamp M964 **M966-01**
IGM Plastic T-splitter for Vacuum Clamp M964 **M966-02**

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