



142-BR500

Portable cordless edgebander for ABS

Operating instructions



Distributor:

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2023-05-12

142-BR500 IGM Portable Edgebander for ABS Manual EN v2.06.00 A4ob



Operating instructions EN

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

Tuchoměřice, Praha-západ, PSČ 252 67

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



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.igmttools.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.

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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

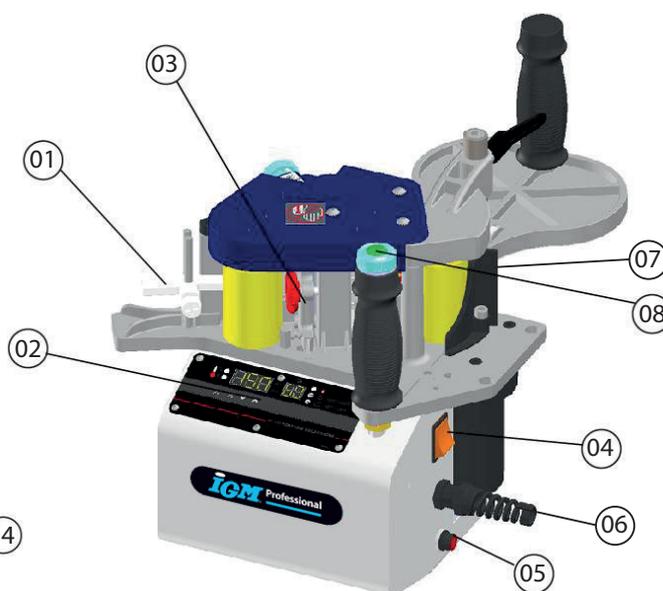
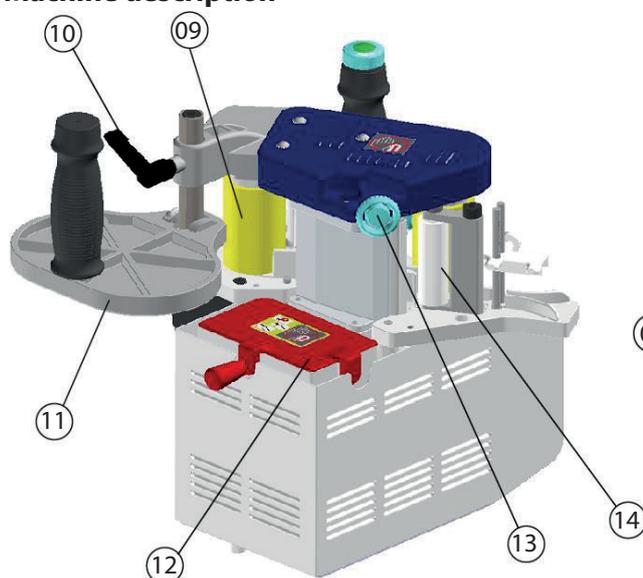
Make sure the machine has been off for at least 60 minutes before storing it in the portable case. That way, the glue in the container will cool down to 60°C. Use a piece of cloth to wipe any adhesive residues on the machine.

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 |
| 2 | Digital display - function settings |
| 3 | Set up of pressure of tape on application roller the |
| 4 | Main switch |
| 5 | Fuse |
| 6 | Cabel spring protection |
| 7 | Corner guide for simple of inner corners glueing |

- | | |
|----|---------------------------------|
| 8 | Speed regulation and off switch |
| 9 | Outfeed roller |
| 10 | Support table locking lever |
| 11 | Support table with a handle |
| 12 | Glue pot cover |
| 13 | Regulation of amount of glue |
| 14 | Infeed roller pressure plate |

4.2 Technical data

Input power	855 W / 230 V
Tape thickness	0,4 - 3 mm
Tape width	10 - 65 mm
Temperature range	MODE I 120 ° - 200 °C
	MODE II 80 ° - 155 °C
Feed speed	2 - 6 m/min
Shipping size	35x30x37,5 cm

Weight	8,8 kg
Shipping weight	11,1 kg
Warm-up time (120 °C)	4 minutes
Fuse	F 6 A (230 V)
Cable length	5 m
Glue pot capacity	400 ml

4.3 Contents

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

5. 5. TRANSPORT, UNPACKING AND ASSEMBLY

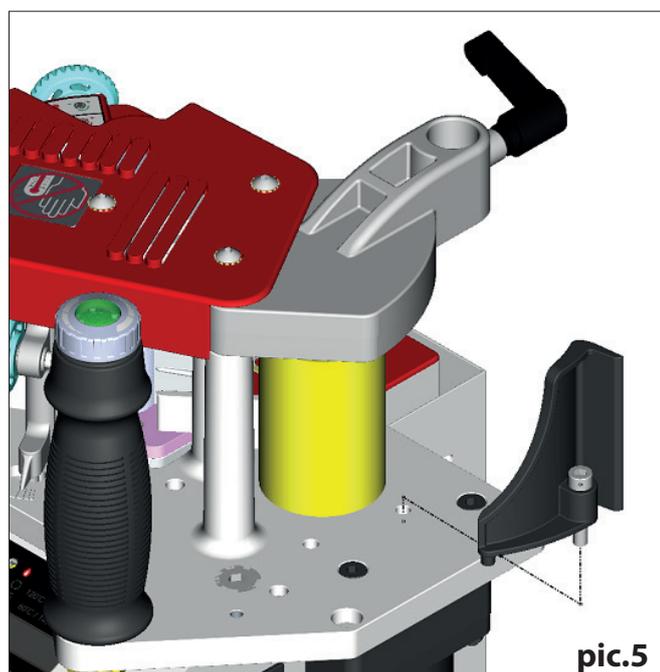
5.1 Transport and unpacking

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.



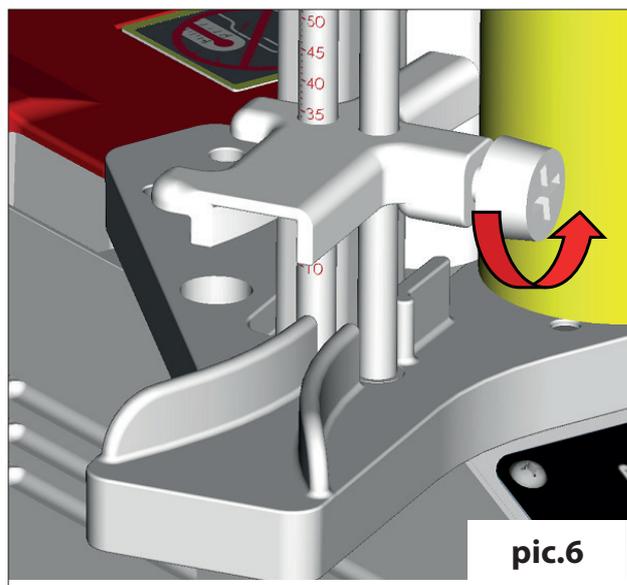
pic.5

6. SET-UP AND ADJUSTMENT

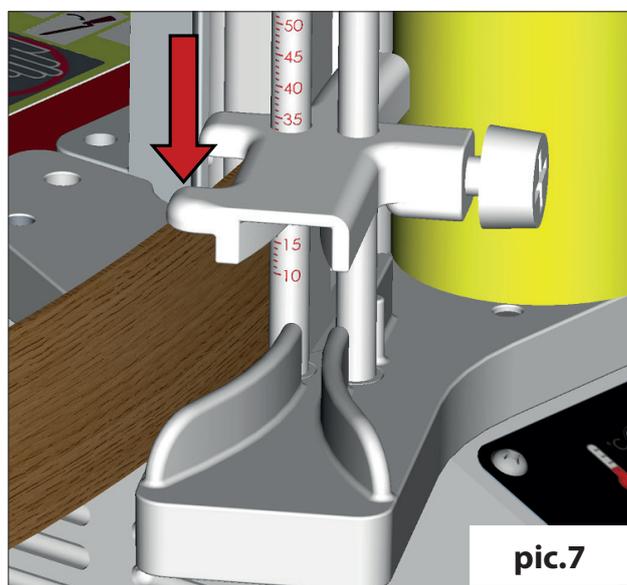
6.1 Preparing for work

6.1.1 How to measure and set up tape width

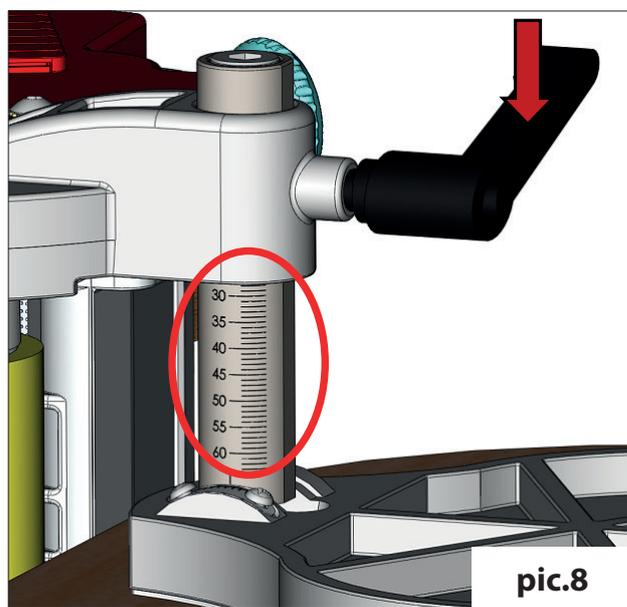
- Loosen the screw on the tape stop (pic.6)
- Place the tape under the stop and measure the height (pic.7), tighten the screw.
- Measure the thickness of the banded piece and set up the support table accordingly, make sure to tighten the locking lever properly (pic.8)



pic.6



pic.7

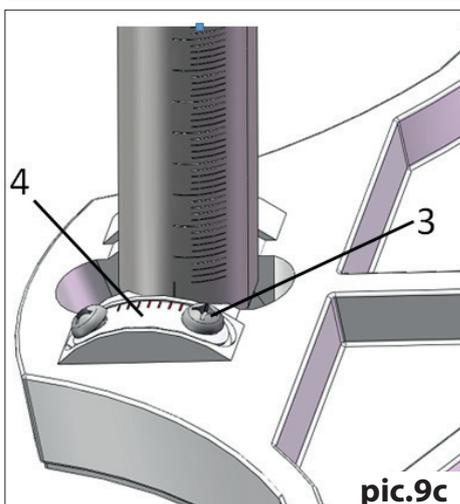
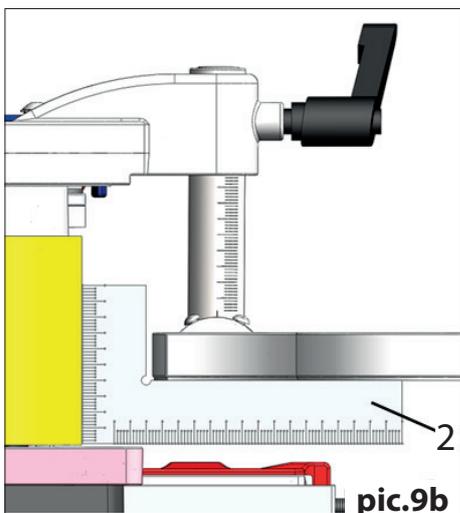
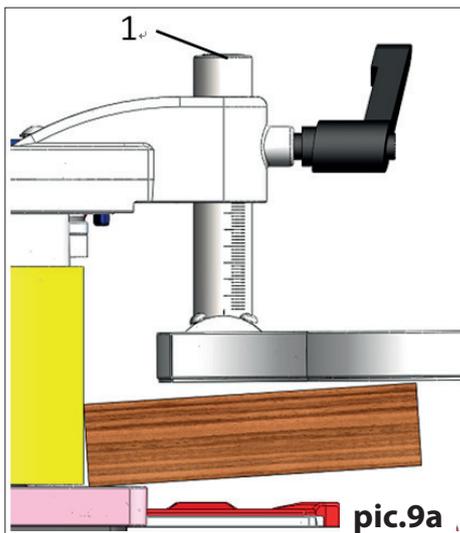


pic.8

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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 alignment. 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.

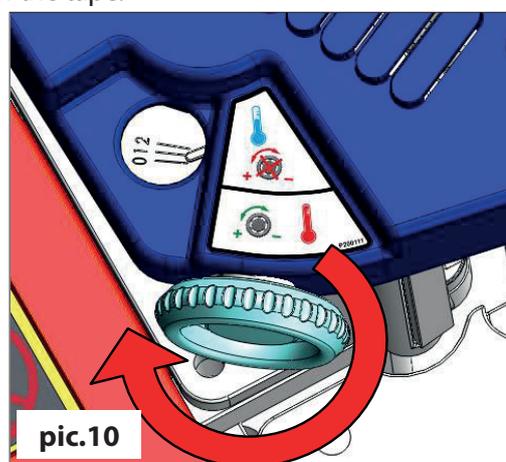


6.1.3 Adjusting the amount of applied glue The amount of glue is pre-set and should suit the majority of operations.

- 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.

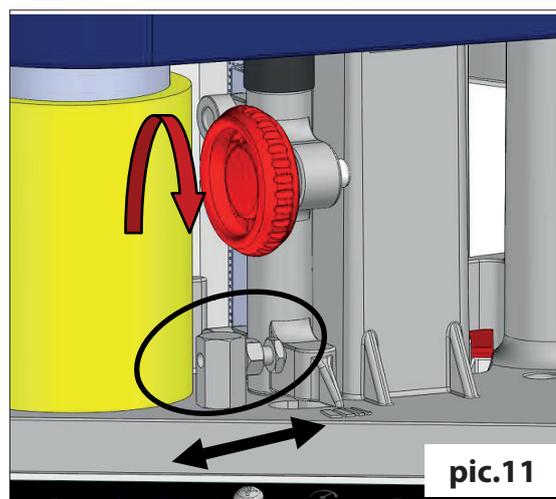
- **Caution: Do not turn the adjustment knob until the glue has reached operating temperature.**

- 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.



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 adjusts to the tape. The thickness can be simply set by a turn of the knob (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.

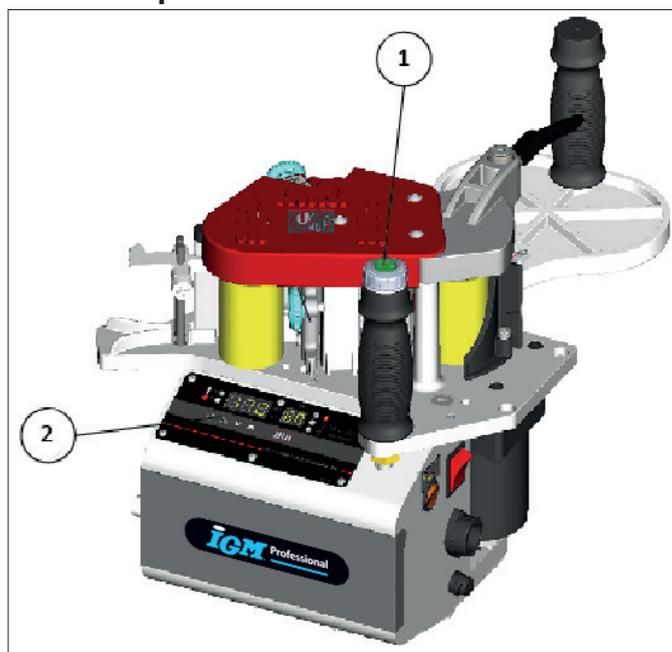
6.3 Standby mode

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

MODE II – Standby mode

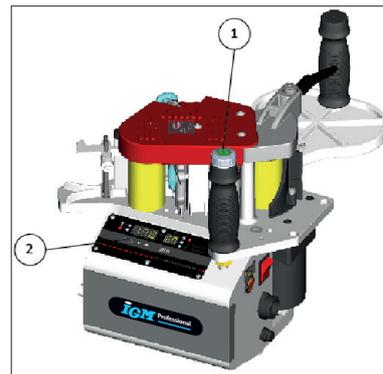
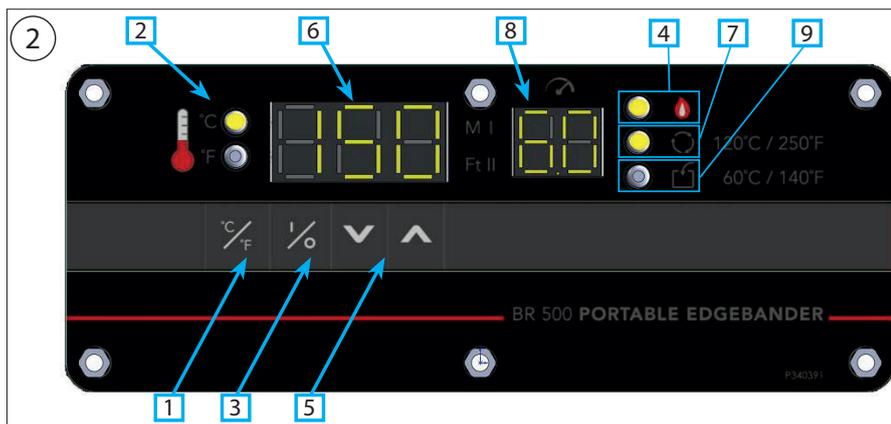
- The machine can be switched into a standby mode II when you need it ready immediately. The temperature will decrease by 50°C. So the glue isn't overburning while maintaining the glue in a preheated state. When switched back to MODE I, the glue in the pot is warmed up far quicker to the desired temperature.
- 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.

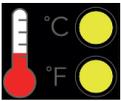
6.4 Control panel features



<p>1</p>	<p>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).</p>
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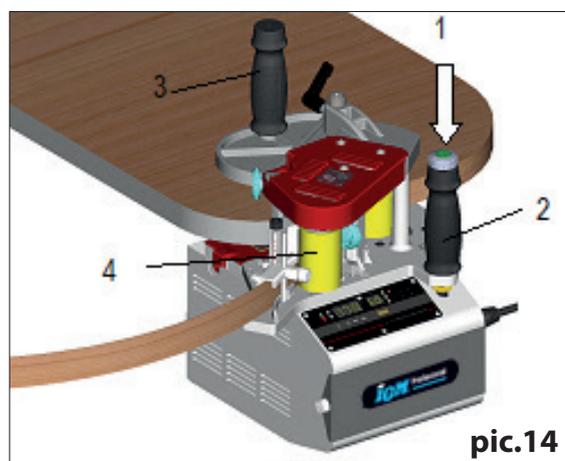
1	 <p>How to switch between °C a °F</p>
2	 <p>When the light is on, the temperature is in °C and feed speed in m/min. When the light is on, the temperature is in °F and the feed speed is in Ft./min.</p>
3	 <p>Heating switch; After turning on the main power switch, turn on the heating switch to begin heating the glue.</p>
4	 <p>The glue is being heated when the light is on.</p>
5	 <p>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.</p>

6	 <p>The display shows the current temperature in the glue pot</p>
7	 <p>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.</p>
8	 <p>Speed indicator</p>
9	 <p>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.</p>

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

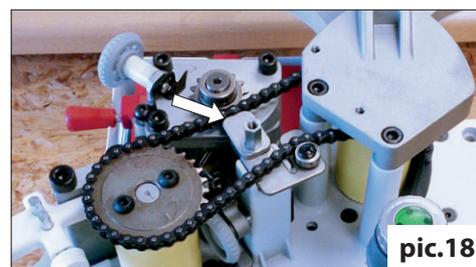
Clean the machine properly after every operation and get rid of any glue on the edgebander with a proper tool or a dissolvent to prevent glue build-up.

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

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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 temperature detector

10. PROTECTION OF THE ENVIRONMENT

Protect the environment.

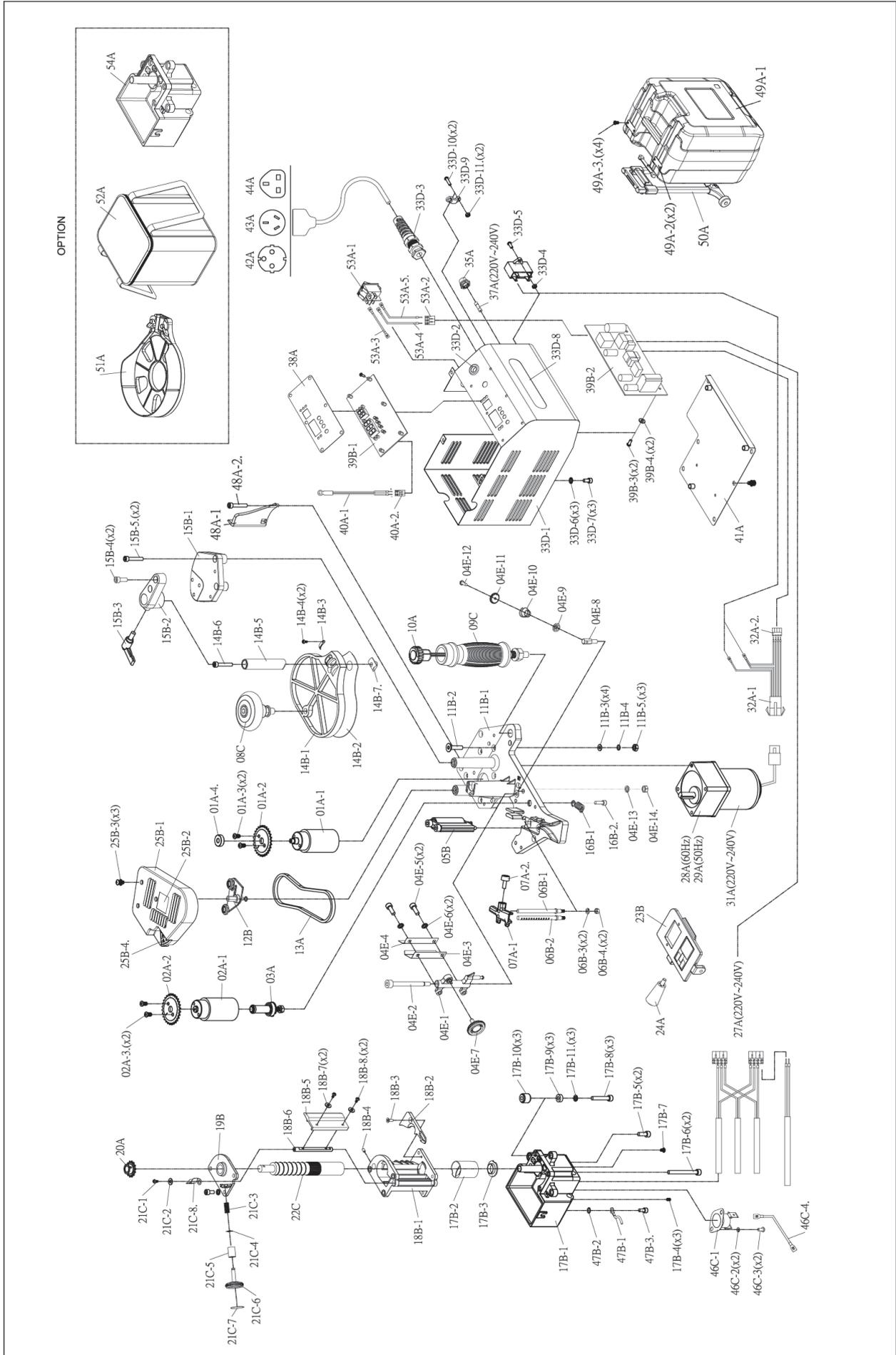
Your machine contains materials that can be recycled. Please, let specialized institutions handle the machine.

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

12. EXPLODED VIEW BR500(CE)



BR500 PARTS LIST

Part No.	Code No.	Description	QTY
01A	01A	Press Roller Assb.	1
01A-1	C020071	Press Roller	1
01A-2	A500003	Sprocket	1
01A-3	S300610	Cap Screw	2
01A-4.	B08608-ZZ	Bearing	1
02A	02A	Feed Roller Assb.	1
02A-1	C020072	Feed Roller	1
02A-2	A500003	Sprocket	1
02A-3.	S300610	Cap Screw	2
03A	03A	Feed Roller Shaft Assb.	1
04E	04E	Pressing Plate Assembly	1
04E-1	C020077	Thickness adjusting base	1
04E-2	G000057	Thickness adjusting shaft	1
04E-3	G150036	Rear pressing plate	1
04E-4	G150038	Pressing plate	1
04E-5	S900612	Cap Screw M 6 X 12 L	2
04E-6	N030006	Spring Washer 6mm	2
04E-7	U010288	KNOB M6x14L	1
04E-8	G080017	Positioning screw M6x12L	1
04E-9	N070005	Washer	1
04E-10	N940003	Spring	1
04E-11	G020129	Adjusting screw	1
04E-12	G000031	Adjusting screw -M4x12L	1
04E-13	N030006	Spring Washer M6	1
04E-14.	N11006R	Nut M6	1
05B	05B	Roller Support Assb.	1
06B	06B	Front Adjustment Shaft Assb.	1
06B-1	G320217	Front Adjustment Support	1
06B-2	G320292	Front Adjustment Support	1
06B-3	N030005	Spring Washer	2
06B-4.	N11005C	Nut	2
07A	07A	Front Adjustment Support Assb.	1
07A-1	U010112	Front Adjustment Support	1
07A-2.	U010039	Screw	1
08C	08C	Hand Grip Assb.	1
09C	09C	Joystick Assb.	1
10A	10A	Joystick Switch	1
11B	11B	Main Frame Assb.	1
11B-1	C020070	Main Frame	1
11B-2	S200525-001	Cap Screw	1
11B-3	N010510	Lock Washer	4
11B-4	N050005	Zinc Lock Washer	1
11B-5.	N11005C	N11005C	3
12B	12B	Chain Adjusting Chip Assb.	1
13A	K320072	Chain	1
14B	14B	Sliding Plate Assb.	1
14B-1	C020140	Sliding Plate	1
14B-2	U010165	PVC Plate	1
14B-3	P200070	Scale Chip	1
14B-4	S500304	Cap Screw	2
14B-5	G320219	Elevating Rod	1
14B-6	G000058	Screw	1
14B-7.	A600007	Slide	1
15B	15B	Sliding Plate Support Assb	1
15B-1	C020135	Sliding Plate Cover	1
15B-2	C020134	Sliding Plate Support	1
15B-3	T060008	Pull Handle	1
15B-4	S900620	Cap Screw	2
15B-5.	S900625	Cap Screw	2
16B	16B	Spring Assb.	1
16B-1	N910005	Spring	1
16B-2.	S900516	Cap Screw	1
17B	17B	Glue Pot Assb.	1
17B-1	C020073	Glue Pot	1
17B-2	C020083	Spiral Tube	1
17B-3	A510002	Bottom Sintered Bushing	1
17B-4	S100406	Screw	3
17B-5	S900616	Cap Screw	2
17B-6	S900680	Cap Screw	2
17B-7	S300405	Cap Screw	1
17B-8	S900632	Cap Screw	3
17B-9	U010094	Bakelite Washer	3
17B-10	U010292	Insulation Spacer	3
17B-11.	N030006	Spring Washer	3
18B	18B	Gluing Base Assb.	1
18B-1	C020111	Gluing Base	1
18B-2	C020112	Metal Plate	1
18B-3	S200408	Cap Screw	1
18B-4	S100406	Screw	1
18B-5	C020081	Main Scraper Plate	1
18B-6	G320218	Scraper Support Pin	1
18B-7	N010412	Zinc Flat Washer	2
18B-8.	S300408	Cap Screw	2
19B	19B	Metal Cover Assb	1
20A	20A	Sprocket Assb.	1
21C	21C	Scraper Adjustment Assb .	1
21C-1	S300506	Cap Screw	1
21C-2	N040005	Lock Washer	1
21C-3	N930016	Spring	1
21C-4	N080611	Wave Washer	1
21C-5	U010241	Washer	1
21C-6	U010266	Knob	1
21C-7	P200171	Scale Label	1
21C-8.	G810004	Scraper Support Pin	1
22C	G640011	Gluing Shaft	1
23B	23B	Glue Pot Cover Assb.	1
24A	U010164	Lock Handle	1
25B	25B	Top Ventilated Cover Assb.	1
25B-1	U010168	Top Ventilated Cover	1
25B-2	P200046	Warning Plate	1
25B-3	S330512	Cover Screw	3
25B-4.	P200111	Warning Plate	1
27A	27A	Heating Unit-230V	1
28A	K016361A	Gear Reduction 3GN60K	1
29A	K016301A	Gear Reduction 3GN50K	1
31A	M022351A-101	Motor 15w 230V	1
32A	32A	Motor Control Wire Assb.	1
32A-1	J910094	Motor Control Wire	1
32A-2.	J530205	Euro Terminal block P3.5x4H	1
33D	33D	Housing Assb.	1
33D-1	G110273	Housing	1
33D-2	J510003	Power Cord Holder	1
33D-3	J530004	Clamp	1
33D-4	N11004R	Nut	1
33D-5	S800412	Cap Screw	1
33D-6	N050005	Zinc Sprocket Washer	3
33D-7	S900510	Cap Screw	3
33D-8	P200122	Name Plate	1
33D-9	U010278	Wire Holder	1
33D-10	S800412	Cap Screw	2
33D-11.	N11004R	Nut	2
35A	J550010	Fuse Bracket (red/10A)	1
37A	J340006	Fuse-6A(200-240V)	1
38A	P340391	Control Panel -BR500	1
39B	39B	Panel Assb.100V-240V	1
39B-1	J011254	Panel 100V-240V	1
39B-2	J011224	Power Plate 100~240V	1
39B-3	S800412	Cap Screw	2
39B-4.	N050004	Lock Washer	2
40A	40A	Thermocouple Assb.	1
40A-1	J910090	Thermocouple	1
40A-2.	J530204	Euro Terminal block P3.5x2H	1
41A	41A	Base Cover	1
42A	42A	Power Cord	1
43A	43A	Power Cord	1
44A	44A	Power Cord	1
46C	46C	Temperature Control Switch Assb.	1
46C-1	J380006	Temperature Control Switch	1
46C-2	N030004	Washer	2
46C-3	S300405	Cap Screw	2
46C-4.	J910096	Heat Resistant Wire	1
47B	47B	Grounding Wire Assb.	1
47B-1	J910009	Grounding Wire	1
47B-2	N050005	Zinc Sprocket Washer	1
47B-3.	S900510	Cap Screw	1
48A	48A	Corner Guiding plate set	1
48A-1	U010282	Corner Guiding plate	1
48A-2.	S900620	Cap Screw	1
49A	49A	Cruiser Case Assb	1
49A-1	U010193	Cruiser Case	1
49A-2	G110176	Fixer plate	2
49A-3.	G000060	Screw	4
50A	50A	Trolley	1
51A	51A	Mobile Dispenser	1
52A	52A	Mobile Tote Case	1
53A	53A	Power Switch Assb.	1
53A-1	J110014	Power Switch	1
53A-2	J530202	Euro Terminal block P5.0x3H	1
53A-3	J910044	Heat Resistant Wire.-white	1
53A-4	J910088	Heat Resistant Wire	1
53A-5.	J910097	Heat Resistant Wire	1
54A	54A	Glue Pot Assb.	1