

Operating Instructions

Bench Mounted Brush Stripping Machine

ST40

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1. Technical Data

Voltage:	ST40D 230/400V 50Hz rotary current, ST40L 230V 50Hz alternating current	
Current:	ST40D 2,7/1,2A	ST40L 3,1A
Rotational Speed:	2720 1/min idle	
Power:	0,37 kW	
Brushes:	special brushes, max. 40 mm diameter	
Weight:	ca. 11,5 kg	
Protection Class:	1	
Wire Diameters:	1,5 – 8 mm	

Technical changes reserved.

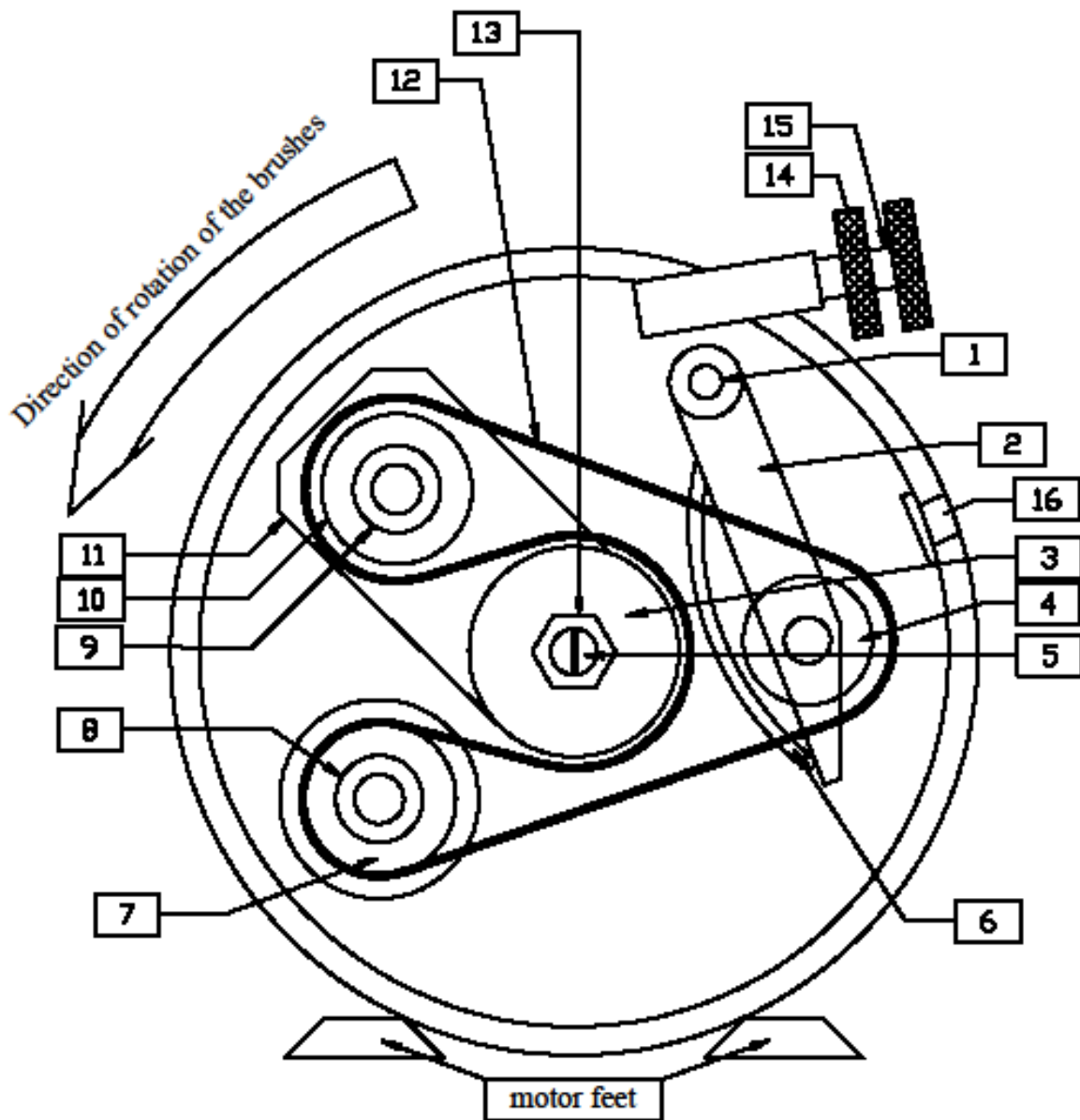
2. Safety Hints



Please read through the operating instructions thoroughly before using the manual stripping machine. Following these instructions will avoid danger and achieve best results. Further safety hints can be found on a separate publication headed “Safety Instructions“.

- The manual stripping handheld unit is built for commercial use.
- Check the cable and plug each time before using the wire stripper. Repairs to the cable and plug should be carried out by an expert.
- Do not hold down the on/off button while inserting the plug into the socket.
- The unit must not be used in wet, in damp or in explosion-prone conditions.
- Danger of retraction in the brushes' area! The operator must take particular care when operating the unit if he or she has long hair or is wearing jewellery. Wear a hairnet and put loose objects like jewelery away. Do not operate wearing loose fitting clothing.
- Keep away from the area of the brushes with your body parts.
- Pull the plug out of the socket before removing the safety cover (6). Snug down the loosened parts and refit the safety cover before switching on the unit again.
- Always lead the connecting cable away from the device to the rear.
- Secure yourself through a stable stand.
- Do not carry the unit by holding the lead wire.
- No person that is younger than 16 years is allowed to use this unit.
- Use a dusk mask if you strip materials, which are dangerous to health.
- When you strip a wire, the wire warms up. Do not touch the wire immediately. Danger of burning.
- Always wear protective goggles and protective gloves.

3. Sketch with the gear cover open



Pos.	Part no.	Description	Pos.	Part no.	Description
1.		Bolt mount of spring compensator (included in Pos2)	9.	ST40.4100	Movable shaft
2.	ST40.4050	Spring compensator complete	10.	ST40.4101	Bearing of moving shaft (9)
3.	ST40.4080	Driving roll	11.	ST40.4090	Compensator
4.	ST40.4055	Tension spring of spring compensator	12.	ST40.4010	Belt
5.	ST40.4060	Adjusting screw	13.	ST40.4070	Lock nut for adjusting screw (5)
6.	ST40.4120	Tension spring	14.	ST40.4044	Lock nut for adjusting screw (15)
7.	ST40.4101	Bearing of fixed shaft (8)	15.	ST40.4042	Adjusting screw for brush distance
8.	ST40.4110	Fixed shaft	16.	ST40.4126	Inspection glass

4. Putting into operation

You can strip enameled copper wire (round or profile) with the bench mounted stripping machine ST40. Glass fibre yarn jacket and similar materials can also be removed easily. PVC and other thermoplastics have to be tried out.

Fix the stripping machine with the feet for example on a work bench. Fix the switch so that the user can reach the on-/off-switch easily.

The manual stripping machine is allowed to be connected to the electricity grid, if the voltage and frequency accord with the information on the rating plate. Devices with 230 V may also be run with 220 V.

Attention, important for correct functioning:

At machine ST40.D check the declared rotary field. The correct functioning can only be guaranteed with the correct direction of rotation. If necessary, you can change the rotary field by turning the connector pins with a screwdriver. If the machine ST40.D is used with wrong direction of rotation, the belt (12) will be damaged. In this case the warranty is discarded.

5. Checking the belt

The belt (12) should be run in the middle of the roll. You can easily control this through the inspection glass (16). **Control daily** and especially after belt exchange, brushes exchange and every material exchange the run in the middle of the roll. If the belt is running only on one-way of the roll it will fret faster.

6. Adjusting the belt

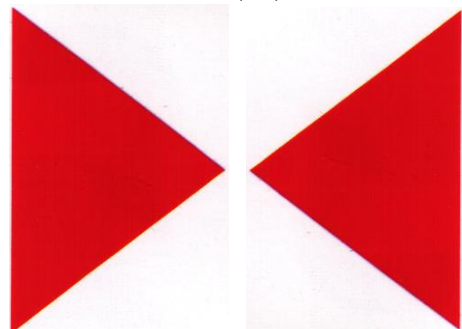
Switch off the machine. Solve the lock nut (13) so far, that the adjusting screw is easily to be moved with a suitable screwdriver. Switch on the machine and watch the run of the belt through the inspection glass (16). By turning the adjusting screw (5) carefully, put the belt into the middle and save it with the lock nut (13). At the first stripping you have to control again that the belt is running in the middle. If necessary, readjust lightly.

With too small brushes' distance and heavily or one-way worn brushes the belt will be overloaded. This may lead to strips of the belt and can't be adjusted with the adjusting screw. Therefor change the brushes early enough or rather don't choose too small brushes' distance.

7. Method of Operation

If you work with new materials, always start with the maximum brushes' distance. You can regulate the brushes' distance with the adjusting screw (15) and fix it with the lock nut (14).

Switch on the unit. Insert the wire through the opening for wire insertion to the brushes until it is caught by the brushes. Slowly reduce the brushes' distance by turning the adjusting screw (15) clockwise until the wire is just slightly caught. In order to achieve a better result, readjust the distance just a little bit and increase the rotational speed.



Use the whole broadness of the brushes for stripping. The brushes must not touch directly. Danger of overloading the device. Replace worn out or especially onesided worn out brushes in time.

If you don't want to strip at the beginning of the wire, but at the middle, insert the wire through the slot at front side of the unit. Follow the adjusting directions as described above.

8. Exchanging the brushes

Attention – follow the safety hints! Always pull the mains plug. Unfix the fixing screws and remove the safety cover. Lock the brushes' shaft with a sprig. Remove the nuts in front of the brushes. Attention – left-hand thread on the movable shaft (9) and right-hand thread on the fixed shaft (8).

Change the brushes and re-tighten the nuts properly. Attach the safety cover before you take the unit into operation.

9. Exchanging the belt

process sequence – disassembly

Switch off the machine. Always pull the mains plug. Put the machine upright on the ventilation cowl like in the drawing.

Disassemble safety cover and brushes.

Attention! At the follow steps the tension spring (6) between pipe housing and gear flange can smash!

Solve the screw off the gear housing and the lock nut (13). Take off the gear cover and the pipe housing.

Disassemble the compensator (11) at the same time with the driving roll (3) of the motor shaft – Therefor you have to screw in the setscrew into the driving roll (3).

Take off the spring compensator (2) of the gear flange. Attention! The tension spring (6) smashes at least now.

Solve the setscrew of the spring compensator (2) and drive out the locking pin of the spring compensator.

Disassemble the fixed shaft (8) of the bearing seat.

Disassemble the moving shaft (9) of the compensator (1). Attention! The bearings have to be disassembled to the outward.

process sequence – assembly

Assemble the moving shaft (9) into the compensator (11). The belt (12) runs between the compensator (11) and the moving shaft (9).

Assemble the compensator (11) together with the driving roll (3) onto the motor shaft (diameter 14mm). Lock the driving roll (3) with the setscrew approximately 3mm over the base of the compensator housing.

Plug the spring compensator (2) into the drilling fit (diameter 12mm) of the gear flange. Assemble the tension spring (4) together with the belt (12) into the spring compensator. Set in the locking pin

from above and lock it with the setscrew.

Put in the fixed shaft (8) together with the belt (12) like in the drawing.

Span the tension spring (6) with a suitable lever.

Put in the adjusting screw (5) into drilled hole in the middle of the compensator.

Adjust pipe housing with the screws – hereto use an approximately 3mm strong steel needle for to put in the spring compensator into the cover.

Adjust brushes and safety cover. Put the machine back into working position.

Justify the belt as described on page 5.

10. Tools

You should only use the recommended tools with type B40.* for safety reasons. Basically, use brushes with minor wire diameter for thin wires. For thick insulation material you should apply accordingly strong brush wire diameters.

11. Cleaning and Maintenance

Check regularly if the lead wire is damaged.

Keep the motor's exhaust openings clear and clean. Regularly blow out the motor with dry compressed air.

After 6 months (3 months day and night shift operation) the stripping machine has to be cleaned thoroughly and maintained.

12. Maintenance and Reparation

Please keep in mind, that only qualified electricians may repair, maintain and check power tools under the terms of national regulations.

Inappropriate reparations endanger the user considerably.

Only use original spare parts. When you order spare parts, always quote the date of the rating plate.

13. Noise / Vibration / Check Information

The manual stripping machine is checked after VDE 0740 part 1 and part 1A1, DIN EN 292-1, DIN EN 292-2, DIN EN 294, DIN EN 563, DIN EN 414.

The maximum sound level is 75 dB(A) at 1m distance.

14. Guarantee

If you use the unit as intended, we grant 6 months guarantee beginning at the purchase date. Damages, that are caused by improper handling or normal fading, are not included in the guarantee.

Technical changes reserved.

