



Instruction Manual
Belt grinder JBS 100 and 400
Order no. 0 008 850 and 0 009 950

List of contents

1	List of contents	page 02
2	Tips on using the manual	page 02
3	Sicherheitshinweise	Seite 02
4	Warranty/identification	page 03
5	Operation/maintenance/care	page 04
6	Telefax-Vordruck	page 08

Tips on using the manual

Congratulation on the purchase of this device. Please pay attention to the operating instructions, to be able to use the handpiece effectively - about all - safety.

The symbols used in the manual have the following meanings:

Caution

Working and operating processes which must be observed to the letter to exclude any risk to persons.

Important

Working and operating processes which must be observed to the letter to avoid any damage to the device.

Info

Technical information to which the device operator must give special attention.

The illustrations and diagrams are numbered in sequence within each chapter. Some of these illustrations have keys. References to illustrations within the text e. g. (5.1/2) have the following meaning:

5.1 = Figure 5.1

2 = Position 2 in the key to the figure

Please feel free to call our customer service department at any time should you encounter technical problems which are not dealt with in this manual:

Telephon: +49 (0) 22 04 / 8 39 - 0

Telefax: +49 (0) 22 04 / 8 39 - 86

Internet: www.joke.de

Safety instructions

This device has been built according to the latest technical standards and generally accepted safety regulations. Nevertheless, it can constitute danger to life and limb for operator or third parties and a hazard to the device itself or other equipment during use.

Important

1. Only use the device if in perfect working order and for its intended purpose. You must always pay attention to the instruction manual and safety instructions therein and be aware of the risks! Repair any faults which could affect the device's safety immediately by yourself or have these repaired.

The unit is designed exclusively for grinding work with the tools listed and approved in the joke catalogue for Surface Finishing. Any other use will be deemed to be contrary to its intended purpose. The manufacturer cannot be held liable for any resulting damages. The risk is borne solely by the user. Correct use also includes compliance with the instruction manual and an observation of the care and maintenance conditions.

2. Keep the instruction manual handy at the device's place of use.

3. Pay attention to and observe generally applicable statutory and otherwise binding regulations relating to accident prevention and environmental protection in addition to the information provided in the instruction manual!

Caution

4. **All personnel commissioned to work on or with the device must have read this instruction manual, and particularly the safety instructions chapter, before starting work. This applies especially for personnel who only work with the device occasionally.**

5. Stop the device immediately should you notice changes to the device or its operating behaviour that are relevant to its safety. Have these remedied before restarting work.

Important

6. **Do not carry out any modifications, additions or conversions to the device! This also applies to the installation and adjustment of safety equipment.**

7. Spare parts must meet the technical requirements specified by the manufacturer. This can only be guaranteed with original joke spare parts.

8. Any work on/with the device may only be carried out by qualified, appropriately trained and authorised personnel. Pay attention to minimum statutory age limits!

Caution

9. **Wear safety goggles when working with the belt grinder.**

10. Personnel undergoing training or in a general apprenticeship should only be allowed to work with the machine under the constant supervision of an experienced operator!

11. Restrain from any type of work that could jeopardise your safety.

12. The device may only be used if all protective and safety equipment is in place and in proper working order.

13. Do not leave the device unattended when switched on!!

14. Stop and secure the device immediately in the event of malfunctions! Faults must be remedied at once.

4

Warranty/identification

Joke Technology GmbH warrants the correct manufacture of every joke product which is delivered in accordance with the terms of contract and delivery.

This warranty does not cover damages caused by normal wear and tear, incorrect handling, negligent use, the fitting of non-original spare parts, inadequate care and/or a failure to comply with this technical manual.

Important

The device may only be used by appropriately trained personnel. If it is not, all warranty claims will be forfeited according to the terms of delivery.

Device identification

The manufacturer's code and type code, CE label and series number can be found on the rear of the control units or in the case of the handpieces on the handle sleeve.

Disposal

This product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.



Operation/maintenance/care

Screwing the handpieces on to the micromotor

Important

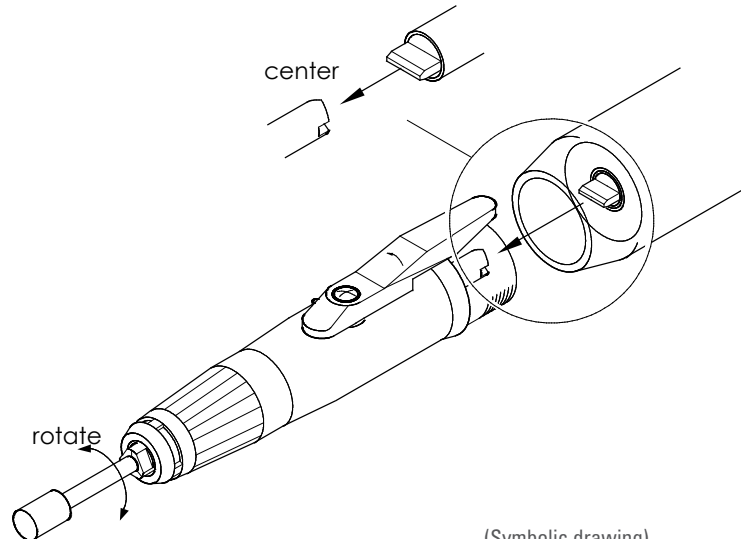
Firstly screw the handpiece carefully on to the motor by hand!

If resistance is felt before the thread is screwed to the stop position, the drive shaft of the motor and the handpiece coupling do not interlock. In this case, turn the handpiece shaft manually until the coupling engages.

Screw the handpiece hand-tight.

Important

Do not use force! This will result in destruction of the motor bearing.

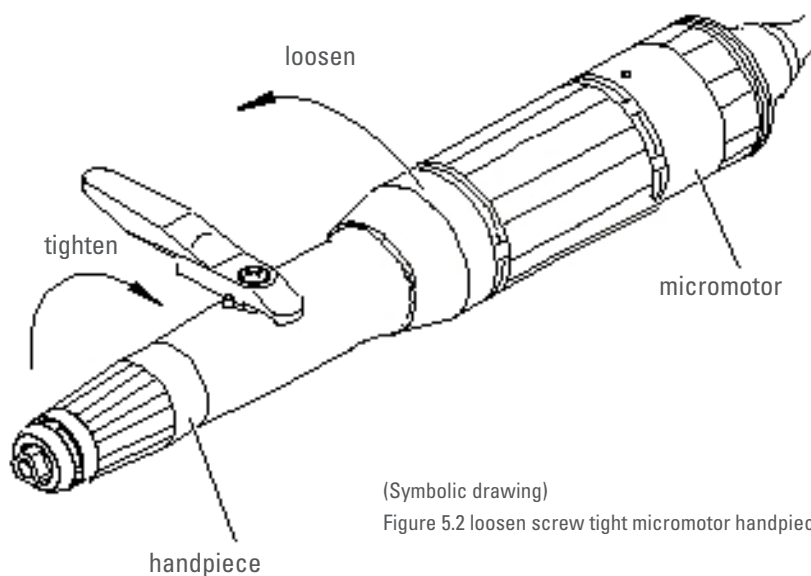


(Symbolic drawing)

Figure 5.1 screwing the handpiece to the micromotor

Unscrewing the handpieces from the micromotor

The handpieces are screw-fitted to the micromotor (with the exception of the DIPROFIL® hand-filing machine). Screw the handpiece off by hand to release.



(Symbolic drawing)

Figure 5.2 loosen screw tight micromotor handpiece

Starting the belt grinder JBS 100 or JBS 400

The belt grinder is likewise connected to the micromotors, as with all other handpieces.

JBS 100: for connection to micromotors from the ENESKA 3, 3-1 and 3-2 system

JBS 400: for connection to micromotors from the ENESKA 4 and 4-1 system

Caution

Always work with protective goggles!

1. Do not touch the grinding belt during work.
2. The belt grinder must be protected against knocks, otherwise mal-functioning of the device and excessive heat generation may occur.
3. The belt grinder is only for dry use.
4. With excessive working pressure, there is a risk that the grinding belt will run out of the guide rollers.

Important

The maximum permissible speed for JBS 100 is 35,000 rpm and for JBS 400 is 40,000 rpm during constant operation.

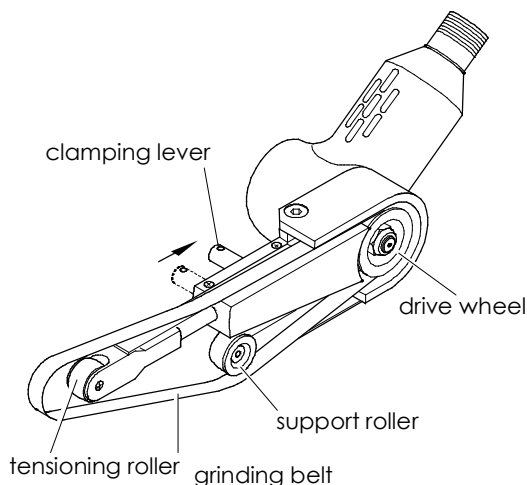
Changing the grinding belt

Remove the grinding belt:

1. Pull the clamping lever in the direction indicated by the arrow
2. Remove the grinding belt from the drive wheel.

Insert the grinding belt:

1. Place the grinding belt on the drive wheel.
2. Pull the clamping lever in the direction indicated by the arrow.
3. Wind the grinding belt around the tensioning roller and support roller.



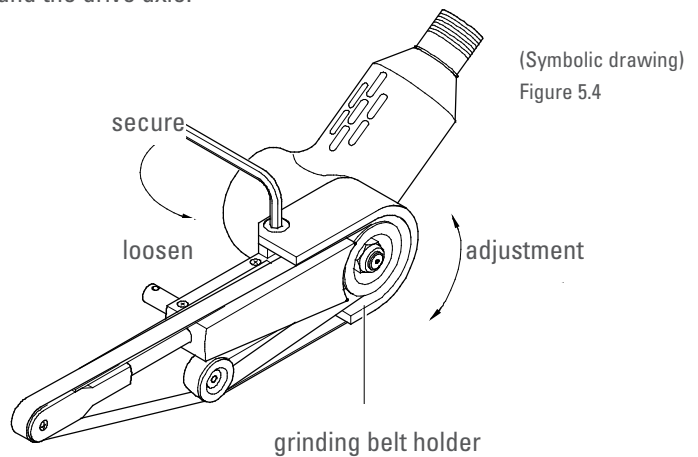
(Symbolic drawing)
Figure 5.3

Important

Allow the motor to run at a low speed in order to check the correct position of the grinding belt.

Adjustment of the grinding belt position

In order to obtain the optimum working position with the drive belt in each respective case, the grinding belt holder can be pivoted around the drive axle.



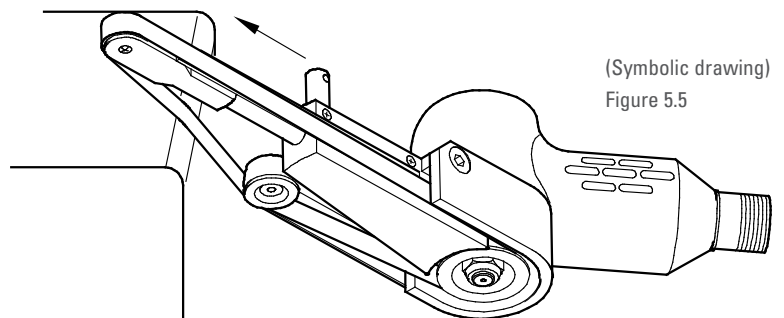
1. Loosen screw with an Allen key.
2. Pivot the grinding belt holder into the desired position.
3. Tighten the screw.

Caution

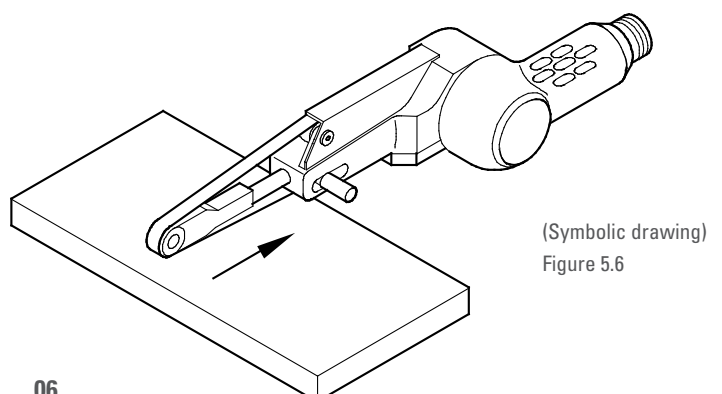
Tighten the screw firmly! If the screw is not firmly tightened, the grinding belt holder may change position during work and cause injuries.

Examples of applications

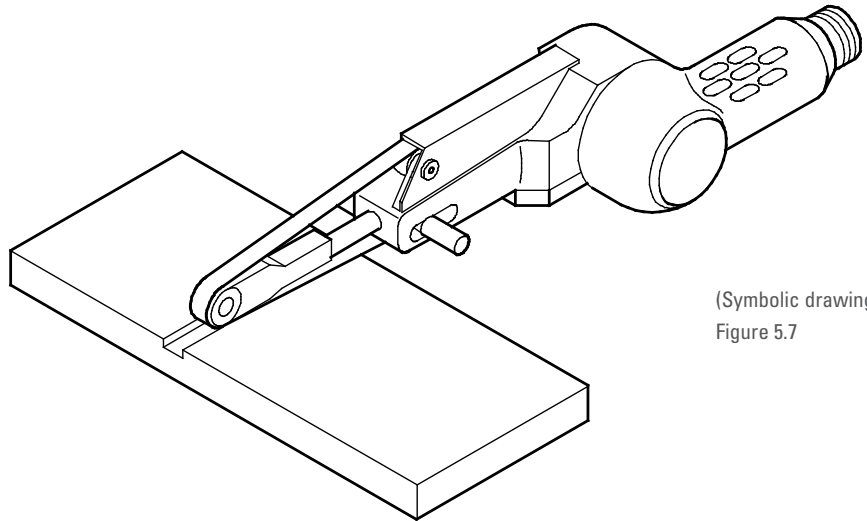
Processing radius: In this case, the grinding belt runs in the direction indicated and grinds between the tensioning roller and support roller.



Processing surfaces: The grinding belt runs in the direction indicated and works with the area in which the belt is guided flat.



Processing grooves: A minimum groove width of 6.5 mm must be present in this case.



(Symbolic drawing)
Figure 5.7

Info

Grinding belt dimensions and grit sizes can be found in the joke catalogue.

6

Maintenance

The belt grinder is maintenance-free.

Important

No oil must be applied, since the bearings of the device and the motor are lubricated for life with grease.

To the
joke Technology GmbH-Service department
+49 (0) 22 04 / 8 39 - 86



Sender:

Company _____
Name/department _____
Customer no. _____
Street _____
Postcode / Town or city _____

Please send us the spares drawing and parts list for the following equipment:

☐ **as a print (see above for address)**

☐ **by fax,**

☐ **as a pdf file to my email address**

Control unit NE 270 ENESKA 3-2	Order no. 0 007 510	
Control unit JST 50 ENESKA 4-1	Order no. 0 008 801	
Rapid-chuck handpiece JIR 310	Order no. 0 007 515	
Rapid-chuck handpiece JIH 300	Order no. 0 009 150	
Rapid-chuck handpiece JEHR 500	Order no. 0 008 810	
Handpiece JBMH 300 N	Order no. 0 009 350	
Handpiece JEHG 400	Order no. 0 009 811	
Angle handpiece JKC 345	Order no. 0 009 200	
Angle handpiece JIC 390	Order no. 0 009 250	
Angle handpiece JERA 270	Order no. 0 009 812	
Angle handpiece EKC 300	Order no. 0 009 813	
Handpiece JHG 210	Order no. 0 007 650	
Handpiece JIG 400	Order no. 0 007 530	
Belt grinder JBS 100	Order no. 0 009 950	
Belt grinder JBS 400	Order no. 0 008 850	

Datum

Signature



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