



Oberflächentechnik
Surface Technology

A close-up, low-angle shot of a JOKE LFC 11 compressed-air filing machine. The machine has a black handle, a silver body, and a red upper section. A label on the silver part shows the number 3400637022/1, 'Made in Germany', and CE and safety symbols. The background is a plain, light grey surface.

Instruction Manual

Compressed-air

filing machine LFC 11

Order No: 0 750 960 and 0 750 980

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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 meaning:



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



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:

Telephone: 0 22 04 / 8 39 - 0

Telefax: 0 22 04 / 8 39 - 60

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 a hazard to the device itself or other equipment during use.

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, milling and polishing with the tools listed and approved in the joke catalogue. 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!
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.
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!
9. Wear protective goggles, protective gloves and hearing protection when working with the handpiece. If noise generation (sound pressure level) at the workplace exceeds 85 dB (A), sound protection and hearing protection measures for the user are required.
10. If necessary, use dust vacuuming or breathing apparatus. Dust and vapors produced when working can be harmful to the health.
11. 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!
12. Restrain from any type of work that could jeopardise your safety.
13. Keep bystanders away while the machine is being used.



13. Never aim the device at a person.
14. The device may only be used if all protective and safety equipment is in place and in proper working order.
15. Long hair or loose clothing may become entangled or drawn into the filing machine.
16. Do not leave the device unattended when switched on!
17. Stop and secure the device immediately in the event of malfunctions! Faults must be remedied at once.
18. Stop and secure the device immediately in the event of malfunctions! Have faults remedied at once.
19. The construction of the filing handpiece is designed for an air pressure of 6 bars. If the device is operated with a higher air pressure, undesirable vibrations may occur that do not necessarily damage the device, but place stress on the user. The air pressure should not exceed 6 bars; otherwise damage can no longer be ruled out.
20. Use a pressure control valve that can be adjusted to 6 bars.
21. Check all lines for condensation and contamination before starting work. The compressed air should be dry, clean and non-oiled. It is advisable to install a filter upstream.
22. The compressed air filing machine is generally not earthed. Take care in case of contact with other current sources.
23. The compressed air filing machine is not to be used near explosive substances/gases.
24. The device is not insulated against contact with electric current.
25. Accumulated compressed air may result in damage to the filing machine.
26. Always keep the compressed-air grinder such that grinding sparks cannot cause any damage.
27. Beware of the beating air hose.
28. The safety operating lever must not be removed or modified.
29. The compressed air supply must be shut off or disconnected before any intervention on the device
30. Keep working area clean and in a well-lit condition.

Warranty

joke Technology GmbH warrant the correct manufacture of every joke product which is delivered in accordance with the terms of contract and supply.

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.



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

Owing to its active vibration damping, the filing handpiece is an innovative device. Minute natural vibrations provide excellent properties for precision work that rule out fatigue even during prolonged working processes. If the following simple instructions for use of the device are followed, we guarantee a long service life under optimum working conditions. Warranty claims shall be void if the filing handpiece is opened.

Device identification

The serial number is to be found on the grip sleeve.

Waste disposal

This machine consists of materials which can be disposed of in a recycling process. Before disposal, render the machine unusable. Do not throw the machine into the garbage collection. According to national regulations this machine must be disposed of in an environmentally compatible.



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Control/ Operation/ Maintenance unit

Prior to first start-up

The recommended air pressure for operating the compressed-air grinder is 6.3 bars. An increased air pressure may result in damage to the compressed-air grinder.

The pneumatic elements for connecting the machine are to be executed such as to be safe to operate.

- Check the tool before use.
- Assembling the tool.
- Country-specific regulations are to be observed.



Oiled compressed air must be used in order to guarantee optimum function.

Taking the machine into service

Turn on:

Tilt the lock to the front and press the valve lever against the power tool.

Never start the power tool without an attachment in the tool holder!

Turn off:

Releasing the valve lever will shut the machine down.



Tool receptacles

The compressed-air grinder is only intended for manual use.

Only use tools and adapters recommended by the manufacturer. The instructions of the tool manufacturer are to be observed!

Use only attachments and fixtures whose maximum loading capacity is equal to or greater than the power tool's.

Use only clean tools!



You will find further tools in our latest joke catalogue.

Changing/fitting the tool

Insert the attachment to the stop in the tool holder and tighten the securing screw with 2.5–3 Nm. After securing the attachment check that all external moving parts do not collide with any stationary parts.

Check the torques on the securing screws at regular intervals and if necessary tighten these.

The attachment may not weigh more than 20 g.

The attachment's shaft may be no less than 0.1 mm smaller than the nominal size.



Working instructions

Sawing:

Before sawing work the support must be attached and secured for safety reasons.

The support sets the cutting depth and eliminates vibrations on the workpiece. To adjust the position of the support you need only loosen the screw by half a turn, set the distance you want by hand, and retighten the screw.



You can use the swivel ring on the stroke adjuster to set the max stroke

Apply the power tool only with a slight pressure for sawing. Use suitable lubricants on metal materials.



Maintenance unit and air connection



The compressed-air required in order to drive the compressed-air filing machine must be supplied through a maintenance unit.

The maintenance unit must consist of the following functional units:
water and dirt separator, pressure gauge, oil mister



Optimum function of the compressed-air filing machine is guaranteed by using the joke Oiljet maintenance unit (Order no. 0 004 050). See the current joke catalogue for further accessories and the installation package.

The joke Oiljet maintenance unit consists of:

- a manual water separator,
- filter 25 µm
- a pressure reducer
- an oil mister
- pressure gauge
- and wall fixing.

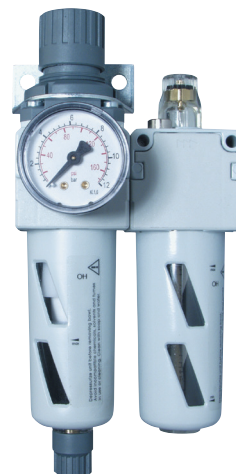


Fig. 5.1 Maintenance joke Oiljet (Order No. 0 004 050)



See the current joke catalogue for further accessories and the installation package.

Mechanism of action of the oil mister

The micro oil mister guarantees an even, rapid and precisely dispensable lubrication of the hand grinder.

The oil mister is adjusted to approx. 1-2 drops per minute. Only a fraction of the falling drops are misted and partly flow back into the reservoir.

Owing to the special air supply, it is possible to reduce the size of the oil particles. The latter can be transported over long distances as micromist in the air flow. They are hardly deposited. All surfaces with which they come into contact are intensively and very uniformly wetted. An even, stable oil film forms immediately at the bearing sites, the thickness of which can be rapidly and precisely adjusted.

Setting up and connecting the maintenance unit

1. Check on the maintenance unit whether
 - the condensation-water bleed screw is closed; closing is performed by turning clockwise.
 - the pressure controller screw is open; opening is performed by turning anticlockwise.
2. Fill the oil container up to the mark with joke high performance lubricant X 73012.



The oil level must not rise higher than the baffle plate of the micro oiler.

3. Connect the line of the external air supply to the maintenance unit.



Take care that the air flows through the housing in the direction indicated by the arrow.

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Technical Data

Druckluft-Feilmaschine LFC 11	
Air pressure	max. 6,3 bar
Power output	~ 300 W
Frequency stroke	100-200 Hz
Stroke	2-11 mm
Air consumption	ca. 0,23 m³/min.
Sound pressure level according	74 dB(A)
Vibration nach EN ISO 28927-8	2.2 m/s² K=0.8 m/s²
Lubrication	continuously by oil
Lenght	280 mm
Weight hand tool	0,830 kg

Scope of supply:

Order no.: 0 750 960:

1x tool holder ø 4 mm, 1x bracket, 1x file (semicircular, 6.5 x 90 mm, cut 0 = coarse, shank ø 4 mm),

1x file (circular, ø 4 mm, cut 0 = coarse, shank ø 4 mm), 1x saw blade (32tpi, 0,8 x 96 mm)

1x grinding pad each with 2x emery strips, grit size 80, 120, 150, 320, 1x 1x tubing unit (supply and exhaust air, silencer), 1x plastic case

Order no.: 0 750 980:

1x tool holder ø 4 mm, 1x bracket, 1x tubing unit (supply and exhaust air, silencer)

joke Oiljet maintenance unit	
max. volumetric flow	1,200 l/min
max. input pressure	max. 16 bars
Adjustment range	0 - 12 bars
Air connection	1/4"

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Troubleshooting

Fault	Possible cause	Remedy
Tool does not work	Compressed-air grinder not switched on at the lever rotary switch.	Turn the rotary lever switch towards "ON".
	Hose line kinked.	Eliminate the kink.
	Air pressure controller on the maintenance unit not opened.	Set air pressure controller to 5 bars.
	Maintenance unit faulty.	Change the maintenance unit.

Care

Clean the compressed-air filing machine LFC 11 if necessary with a soft brush/paintbrush or a dry cloth. Store the machine in a clean, dry place.

Check the flat guide daily for wear and replace if necessary.

Daily control of free running of the piston. Always keep the machine clean and store in a dry place. Regular maintenance is indispensable for the safety of the machine. If not in regular use, maintain mobile parts and guide with resin-free oil. Add a few drops of oil in the hose and allow to run into the machine.

Maintenance

The linear or transverse stroke hand-filing machines are maintenance-free.

Emptying condensate from the air filter of the maintenance unit:

1. Render the maintenance unit free of pressure. We recommend a ball shut-off valve from the current joke catalogue; this is to be mounted on the side.
2. The condensate must be drained through the bleed valve before the maximum filling level is reached. The bleed screw must be rotated clockwise ($\sim 90^\circ$) and pressed up wards.
3. Screw out the air filter and change or clean. Take care that the filter frame and the loose seal are reinstalled with their position unchanged.
4. Screw in the condensate container again and perform a functional test. After emptying and changing the filter, loosen the bleed screw and rotate anticlockwise ($\sim 90^\circ$).
5. Supply the maintenance unit with pressure.



Take care that the filter frame and the loose seal are reinstalled with their position unchanged.

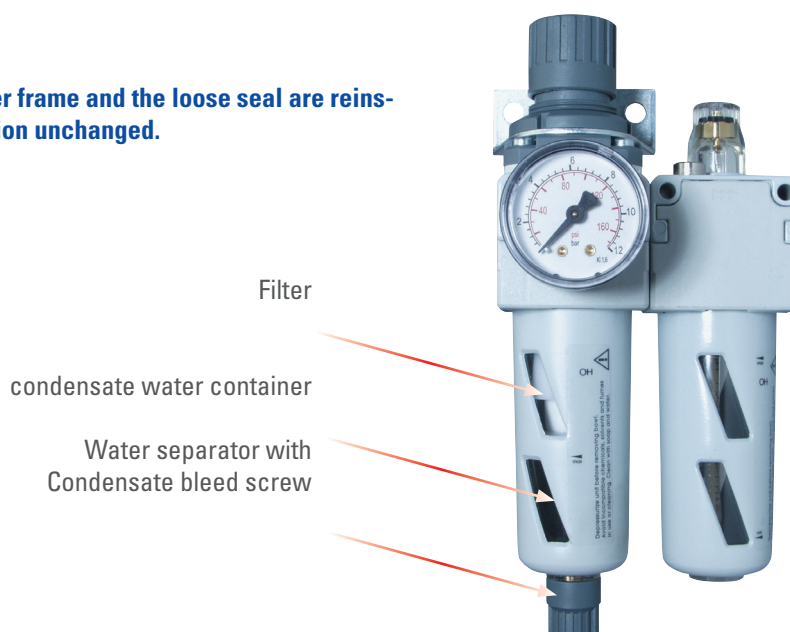


Fig. 8.1 Maintenance unit joke Oiljet (Order No. 0 004 050)

To
joke Technology GmbH
Service-Abteilung
Fax: 0 22 04 / 8 39 - 60



Sender:

Company _____
Name/Department _____
Customer-no. _____
Street _____
Post code/town _____

Please send us the spare parts drawing with parts list for the following devices:

- ☐ as a printout (see above for address,
- ☐ per fax,
- ☐ as a pdf file to my email address.

Compressed-air filing machine LFC 11 + with case	Oder No. 0 750 960	<input type="checkbox"/>
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Compressed-air filing machine LFC 11	Oder No. 0 750 980	<input type="checkbox"/>
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Maintenance unit joke Oiljet	Oder No. 0 004 050	<input type="checkbox"/>
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Accessories joke Oiljet:

Connection nipple ¼"	Oder No. 1 722 246	<input type="checkbox"/>
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Lubricants:

High-performance lubricant X73012,	0.1 Liter	Oder No. 0 580 601	<input type="checkbox"/>
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High-performance lubricant X73012 ,	1.0 Liter	Oder No. 0 580 602	<input type="checkbox"/>
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High-performance lubricant X73012 ,	5.0 Liter	Oder No. 0 580 603	<input type="checkbox"/>
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☐

Date

Sign



Brilliant solutions for perfect surfaces

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