KROFtools®
PROFESSIONAL TOOLS

Language
EN

CE

AIR MICRO DIE GRINDER KIT 3MM
REF.: 9385

Operating manual and instructions
General information

Name:	
Address:	

Model:	

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DECLARATION OF CONFORMITY

CE

We:

KROFTOOLS
Parque Industrial da Pousa
Rua da Devesa, n.º 8
4755-307 Martim,
Barcelos

Declare under our sole responsibility that the product:
Part Number: 9385
Description: AIR MICRO DIE GRINDER KIT 3MM
Serial No:-

To which this declaration relates is in conformity with the following directive (s):

Machinery Directive: 2006/42/EC

EN ISO 11148-9: 2011

IssueDate: 18/02/2024

José Bárbara
CEO

Thanks for your purchasing our air tools and please read this Instruction Manual carefully and thoroughly before operating the tool to do your best jobs.

WARRANTY AND SERVICE

We (the manufactures) warrant all the produts we sell to be free from defects in materials and workmanship for a period of 360 days from the original purchase date. This warranty does not apply to effects due direcly or indirecly to abuse, misuse, negligence, normal wear and tear ot improper maintenance, nor shall it apply to any product that has been repaired ot altered outside of our facilities. Should any product fail to provide safisfactory service, call your distributor for return authorization but to be accompanied with proof of purchase and an explanation of the return.
We make no other warranty, expressed and/or implied. Shall in no event be liable for death, injuries to persons or property, or for incidental consequential indirect or special damages of any nature arising from the sale or use od the produts, excepting only the cost or expense of repair and replacement as described above. This warranty gives the customer specific legal rights. Other rights may vary from state to state.

WHO IS COVERRED ?

This warranty covers only the initial purchaser of the product.

HOW TO GET SERVICE

The product or part must be returned to the distributor or sales agent for examination.You must provide proof of initial purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will return or replace the product, or refund the purchase price, at our option. We will return the repaired product or replacement at our expense unless it is determined by us that there is no defect, or that the defect resulted from causes not within the scope of our warranty in which case we will, at your direction, dispose of or return the product. In the event you choose to have the product returned, you will be responsible fot the shipping and handling costs for th return.

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SPECIFICATIONS

Free speed:54,000 spm
Collet size:1/8”
Air inlet:1/4”
Air hose:3/8”
Air consumption:2.25 CFM
Working pressure:90 PSI
Length: 134mm
Sound Pressure: LpA: 76 dB(A)
Sound Power:KpA: 87 dB(A)

SAFETY GUIDELINES

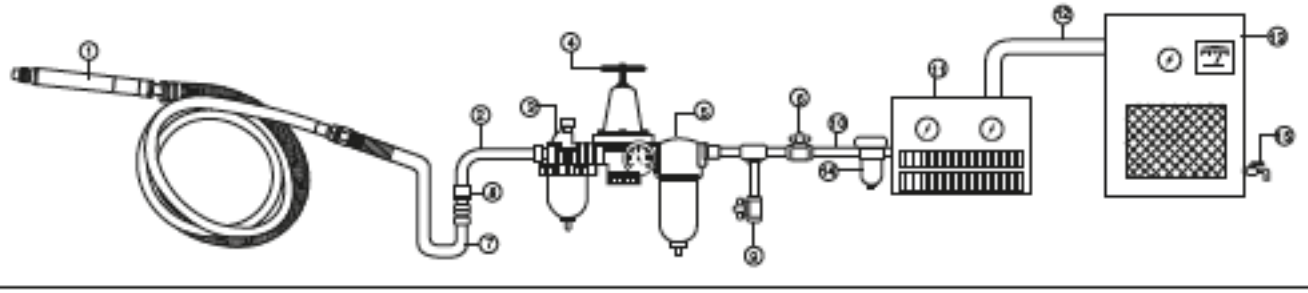
- Keep work area clean. Never operate the product near flammable substances like gasoline, naphtha, cleaning solvents, etc. Work in a clean, well-ventilated area free of combustible materials. Cluttered areas invite injuries.
- Ensure that there are no electrical cables, gas pipes, etc., which can cause a hazard if damaged by use of the tool.
- Never connect to an air source that is capable of exceeding 200 PSI. Always verify prior to using this tool that the air source has been adjusted to the rated air pressure range.
- Do not exceed maximum working pressure of 90 PSI for the tool. Over pressurizing the tool may cause bursting, abnormal operation, breakage of the tool or serious injury to persons. Use compressed air regulated to a maximum pressure at or below the rated pressure of any attachments to this product.
- Never use oxygen, carbon dioxide, combustible gases or any other bottled gases as an air source for the tool. Such gases are capable of explosion and serious injury to persons.
- Disconnect the tool from the air source before making any adjustments, changing accessories, or storing the tool. Such preventative safety measures reduce the risk of starting the tool unintentionally.
- Observe work area conditions. Don’t expose to rain. Keep work area well lighted.
- Keep children away. Children must never be allowed in the work area. Do not let them handle machines, tools, extension cords, or air hoses. Keep visitors a safe distance from the work area.
- Store idle equipment. When not in use, the tool must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
- Dress properly. Do not wear loose clothing or jewellery as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working.
  Wear restrictive hair covering to contain long hair.
- Do not overreach. Keep proper footing and balance at all times, which enables better control of the tool in unexpected situations.
- Protect your eyes by wearing safety glasses or a face shield when using this tool. Ear protectors should also be worn.
- Maintain the product with care. Inspect hose periodically and, if damaged, have it repaired by an authorized technician.
- Install an in-line shutoff valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.
- Use the right tool for the job. Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this product was designed. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
- Do not apply excessive force of any kind to the tool. Let the tool perform the work at the rate for which it was designed.

- Stay alert. Watch what you are doing. Use common sense. Do not operate any tool when you are tired.
- Do not operate tool under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.
- Check for damaged parts. Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving parts, any broken parts, and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.
- Keep working parts of the tool away from hands and body during operation.
- Replacement parts and accessories. When servicing, only use identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool.
- Use proper size and type of air connection hose. If an air connection hose is required, it must be of the proper size and type to supply the correct current to the tool without heating up. Check your compressor manual for extension cord information.
- Keep the air supply hose away from heat, oil and sharp edges. Check hose for wear before each use.
- Do not carry the tool by air hose.
- Do not remove any labels on the tool. Replace if they become obscured or damaged.
- Maintenance. For your safety, maintenance should be performed regularly by a qualified technician.
- CA PROP 65: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

AIR SUPPLY

Please refer to the typical air system layout recommended below.

1. Use only clean, dry, regulated compressed air as the power source.
2. Make sure that the air compressor being used for the tool operation supplies the correct output (CFM).
3. Have the tool in “off” position when connecting the tool to the air supply.
4. Use normal 90 PSI working pressure for the tool. High pressure and unclean air will shorten the tool life due to the faster wear and also may create a safety hazard.
5. Drain water from the air compressor tank daily, as well as any condensation in the air lines. Water in the air line may enter the tool and cause damage to the tool mechanisms at operation.
6. Clean the tool air inlet screen filter for blockage weekly. Clean if necessary.
7. Usually a 3/8” (9.5 mm) inner diameter air hose is recommended for air supply and airflow to get the optimum performance of tool.
8. A long air hose (usually over 25’ (8 m)) may cause up to 15 PSI drop in pressure, so you need to set the output pressure of the air compressor higher to maintain the required working pressure at the tool.
9. Use proper hoses and fittings. We do not suggest connecting quick change couplings directly to the tool since they may cause failure due to tool vibration at operation. Instead, add a lead hose and connect coupling between air supply and hose whip.
10. Check hoses for wear before each use. Make certain that all connections are secure.

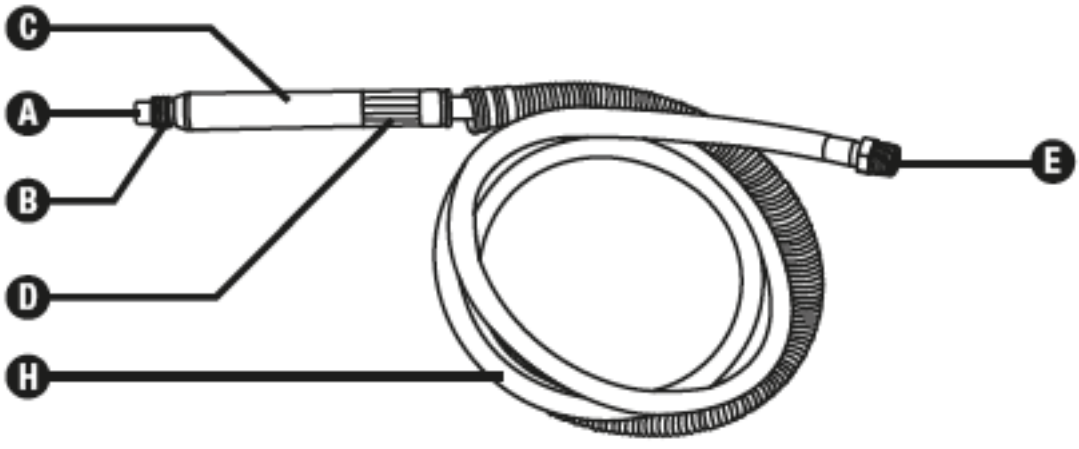


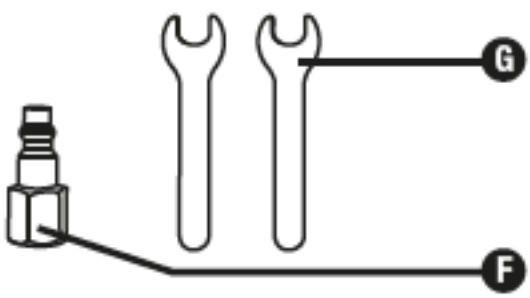
AIR SYSTEM LAYOUT:

1. Air Tool
2. Air Hose 3/8" (I.D.)
3. Oiler
4. Pressure Regulator
5. Filter
6. Shut Off Valve
7. Whip Hose
8. Coupler Body and Connector
9. Drain Daily
10. 1/2" (12.5 mm) or Larger Pipe and Fitting
11. Air Dryer
12. 1" (25 mm) or Larger Pipe and Fitting
13. Air Compressor
14. Auto Drain
15. Drain Daily

KEY PARTS DIAGRAM

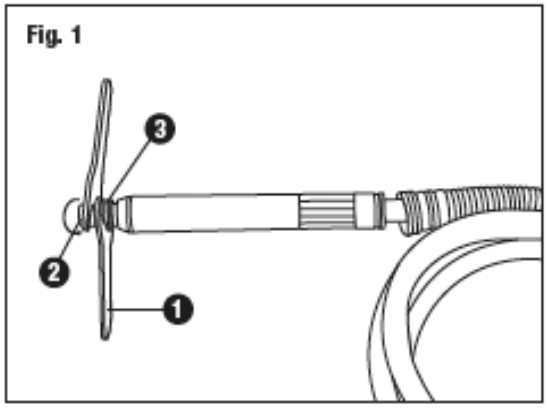
No.	Description
A	Collet cap
B	Front cover
C	Micro die grinder
D	On-Off switch/Speed control
E	Air inlet
F	Female plug
G	Wrench
H	Air hose



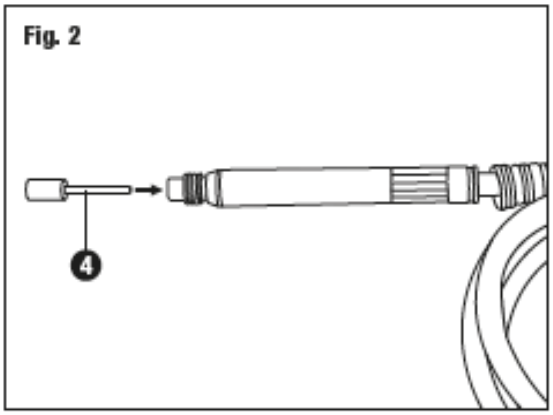


SETUP

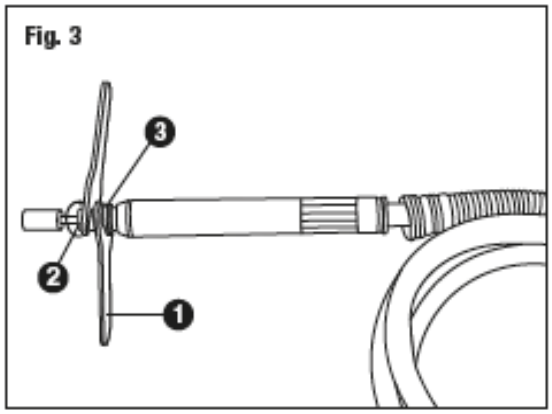
1. Use one wrench (1) to hold the front cover (2) in place while loosening the collet cap (3) counterclockwise with the other wrench (1). (Fig. 1)



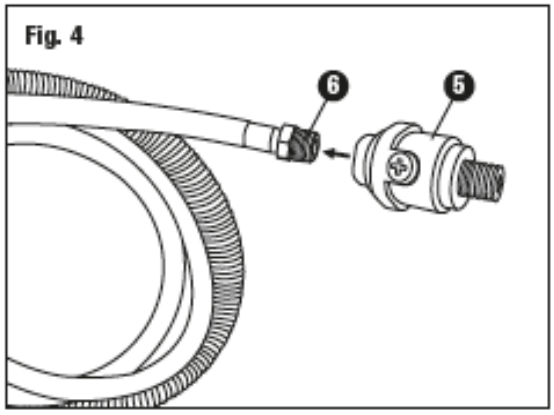
2. Choose the required grinding stone (4) and slide the shaft of grinding stone into the collet opening. (Fig. 2)



3. Use one wrench (1) to hold the front cover (2) in place while tightening the collet cap (3) clockwise with the other wrench (1). Make sure that the grinding stone is set tight and secure. (Fig. 3)

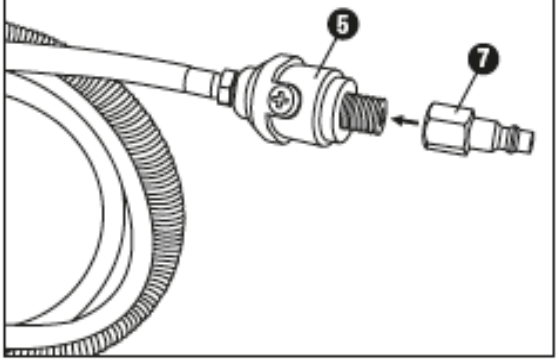


4. Mount mini oiler (5) to the air inlet (6) if necessary. Use thread sealant tape on the male threads of the air inlet for airtight connection. (Fig. 4)
IMPORTANT: The mini oiler should be filled with 2/3 air tool oil before it is mounted to the air inlet.



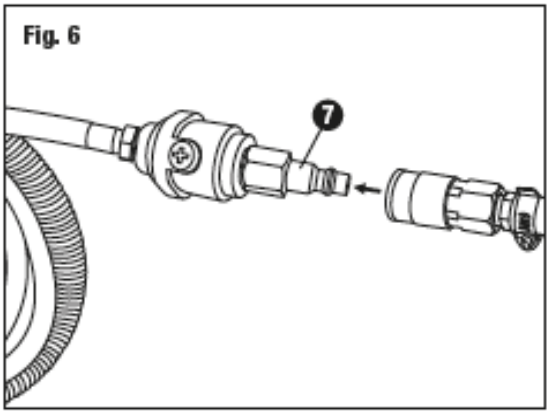
5. Mount the male plug (7) to the mini oiler (5). Use thread sealant tape on the male threads of the mini oiler for airtight connection. (Fig. 5)

Fig. 5



6. Connect air supply hose to the male plug (7). (Fig. 6)
7. Set the working pressure at 90 PSI for best tool performance.
IMPORTANT: Working pressure refers to the air line pressure set to the tool under working conditions.

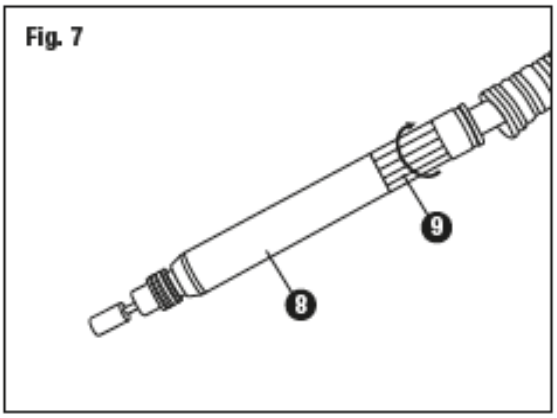
Fig. 6



OPERATING INSTRUCTIONS

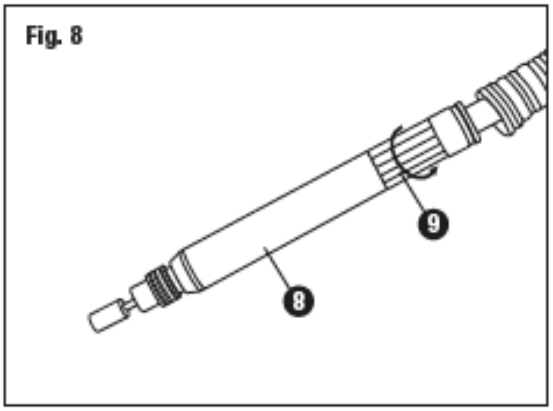
1. Hold the micro die grinder (8) firmly and slowly turn the On-Off switch/speed control (9) clockwise to start the tool. (Fig. 7)

Fig. 7



2. Turn the On-Off switch/speed control (9) counterclockwise to stop the tool. (Fig. 8)
IMPORTANT: Secure loose workpiece using a vise or clamps to prevent movement while working.
IMPORTANT: Keep the grinding stone off the surface of workpiece until it reaches operating speed.
IMPORTANT: The tool's speed is variable. Rotate the On-Off switch/speed control clockwise to increase speed or counterclockwise to decrease speed.

Fig. 8



MAINTENANCE

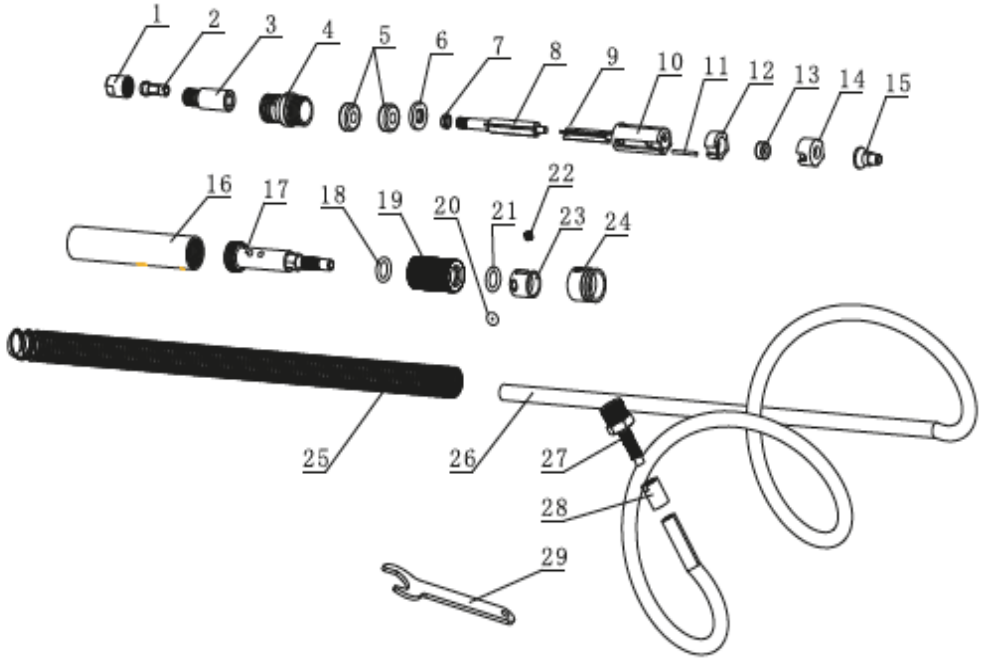
1. Always operate the tool with care by following the instructions in the manual.
2. Always disconnect air connection hose and air supply when tool is not in use.
3. Check air hose for frays and tears.
4. If the tool fails, have it repaired or replaced by an authorized technician.
5. In the event that it becomes necessary to store the tool for an extended period of time, it should receive a generous amount of lubrication at that time. The tool should be lubricated through the air inlet and should run for approximately 30 seconds to ensure that the lubricating oil has been evenly distributed throughout the tool.
6. When you are not using the product for a long time, wipe it clean with a dry cloth and store it in a dry and safe place out of reach of children.

TROUBLESHOOTING

Problem	Possible Cause	Corrective Action
Tool runs slowly or will not operate	1. Grit or gum in tool. 2. No oil in tool. 3. Low air pressure.	1. Flush the tool with air-tool oil or gum solvent. 2. Lubricate the tool according to the lubrication instructions in this manual. 3. a. Adjust the regulator on the tool to maximum setting. b. Adjust the compressor regulator to tool maximum of 90 PSI/6.3 BAR.
	4. Air hose leaks. 5. Pressure drops.	4. Tighten and seal hose fittings if leaks are found. Use sealing tape. 5. a. Be sure the hose is the proper size. Long hose or tools using large volumes of air may require a hose with an I.D. of 1/2” (12.5 mm) or larger depending on the total length of the hoses. b. Do not use a multiple number of hoses connected together with quick-connect fittings. This causes additional pressure drops and reduces the tool power. Directly connect the hoses together.
	6.Worn rotor blade. 7. Moisture blowing out of tool exhaust.	6. Replace rotor blade. 7.Water in tank: drain tank. (See air compressor manual.) Oil tool and run until no water is evident. Oil tool again and run 1-2 seconds.
Abnormal vibration and/or excessive heat develops in the tool.	Improper lubrication.	Follow proper lubrication procedures in this manual.

PARTS LIST

No.	Description	Qty.	No.	Description	Qty.
1	Collet cap	1	16	Main housing	1
2	Collet	1	17	Hose connector	1
3	Collet holder	1	18	O-ring	1
4	Front cover	1	19	Switch collar	1
5	Bearing	2	20	O-ring	1
6	Major collar	1	21	O-ring	1
7	Minor collar	1	22	Hex screw	1
8	Rotor	1	23	Axle collar	1
9	Rotor blade	3	24	Exhaust fixer	1
10	Cylinder	1	25	Braided hose cover	1
11	Fixing bolt	1	26	Air hose	1
12	Front cover	1	27	Air inlet	1
13	Bearing	1	28	Nut	1
14	Rear cover	1	29	Wrench	2
15	Valve holder	1			



NOTE:
The manufacturer and/or distributor has provided the parts list and assembly diagram in this manual as a reference tool only. Neither the manufacturer nor distributor makes any representation or warranty of any kind to the buyer that he or she is qualified to make any repairs to the product, or that he or she is qualified to replace any parts of the product. In fact, the manufacturer and/or distributor expressly states that all repairs and parts replacements should be undertaken by certified and licensed technicians, and not by the buyer. The buyer assumes all risk and liability arising out of his or her repairs to the original product or replacement parts thereto, or arising out of his or her installation of replacement parts thereto.