

Operation Manual

71 Pieces Compressed Air Tool Set with Impact Wrench and Accessories

61870



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Due to further developments, illustrations, functioning steps, and technical data can differ insignificantly.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.





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If you should find a mistake or wish to make a suggestion for improvement, we look forward to hearing from you.

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To return orders for exchange, repair, or other purposes, please use the following address. Attention! To allow for a smooth execution of your complaint or return, it is important to contact our customer service team before returning the goods.

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Introduction

Thank you for purchasing this quality product. **To minimise the risk of injury we urge that our clients take some basic safety precautions when using this device. Please read the operation instructions carefully and make sure you have understood its content.**

Keep these operation instructions safe.

Safety precautions

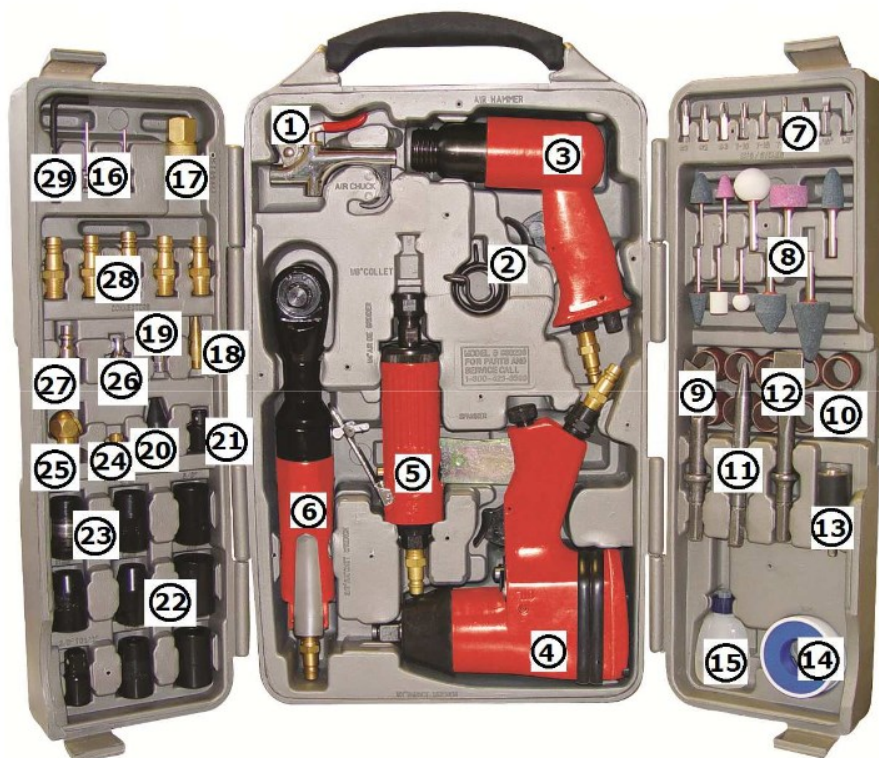
- Modifications in the interest of technical progress may be made by the manufacturer without prior notice and may not be included in the operating instructions.
- Check the device for completeness, tightness, and function before commissioning.
- Never put a defective or non-functional device into operation. Contact the manufacturer or have the device checked by a qualified specialist.
- Always work with care and the necessary caution.
- Do not use excessive force under any circumstances.
- Use safety equipment. Always wear protective goggles with side protection, ear protection, respiratory protection, and safety shoes.
- Always work in well-lit locations.
- Always make sure that no body parts or clothing can get into danger areas (e.g., the chisel, the grinder, etc.) during the work process.
- Ensure that the unit is stable and safe when in use.
- Keep children or unauthorized third parties away from the device.
- Avoid unintentional operation of the operating lever when the unit is not in use or when connecting the compressed air hose.
- Do not make any technical changes to the device, use only approved accessories.
- Do not apply excessive pressure with the tool on the material to be machined, the recoil could lead to injuries.
- Never disconnect the compressed air hose from the unit while the control lever of the unit is engaged.
- Make sure that the torsion spring (if included) is always mounted on the device.
- Never carry the unit by the compressed air hose.
- Never exceed the permissible inlet pressure of 6 bar.
- Only use compressed air as pressure source, never gases such as pure oxygen.
- Disconnect the compressed air supply from the unit when it is not in operation.
- Do not operate the machine if you are tired or under the influence of alcohol, drugs, medicine, or other intoxicating substances.
- Store packaging parts (foils, plastic bags, polystyrene, etc.) only in places which are not accessible to children, especially infants, since parts of packaging often present undetectable dangers (e.g., danger of suffocation).

Intended use

- The compressed air unit set contains various compressed air operated units suitable for certain tasks depending on the concept (see respective chapters).
- The devices are not suitable for permanent operation.



Content



Nº	Name	Nº	Name
1	Mini air pistol	16	Ball filling needle
2	Chisel retaining spring	17	Hose coupling
3	Chisel hammer	18	Outlet nozzle
4	Impact wrench	19	Air chamber filling adapter
5	Rod grinder	20	Needle adapter
6	Ratchet screwdriver	21	Bit adapter
7	Bit assortment	22	Nut assortment
8	Mounted points	23	Adapter
9	Separating chisel	24	Mounted point collet chuck
10	Grinding rollers	25	Valve plug attachment
11	Pointed chisel	26	Air chamber filling adapter
12	Flat chisel	27	Plug nipple with 1/8" internal thread
13	Grinding roller holder	28	Plug nipple assortment
14	Teflon tape	29	Allen wrench
15	Oil bottle		



Assembly and commissioning in general

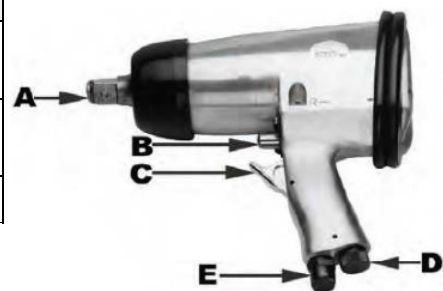
Before start-up

- Seal the supplied plug nipple with sealing tape and then screw it into the compressed air connection.
- Only operate the compressed air unit with an oiler.
- Pressure reducer must be present on the compressor.
- Install a water separator (filter) before the oiler.
- The maximum operating pressure of your air tool is 6 bar. If you set your pressure minimum higher than 6 bar, your air tool may be overloaded.
- During longer breaks in operation, we recommend cleaning and lubricating the air tool thoroughly.
- When the unit is put back into operation, add some compressed air oil to the connection of the compressed air unit, let the unit run for a short time, then operate it with a compressed air lubricator. Some units are equipped with an infinitely variable regulation for speed and impact force (e.g., impact wrench, drill left/right barrel, chisel hammer set, random orbit sander, etc.).

Tool: impact wrench

Figure

Nº	Name	Nº	Name
A	Square for nut holder	D	Air controller or torque controller
B	Switch lever (left/right rotation)	E	Compressed air connection
C	Trigger lever		



Intended use

- The impact wrench is suitable for tightening and loosening screw connections using compressed air.
- Do not use impact wrenches for purposes other than their intended purpose.
- Secure pneumatic tools against children.
- Only work when you are well rested and concentrated.
- Compressed air connection only via a quick-release coupling.
- Working pressure adjustment must be carried out via a pressure reducer.
- Do not use oxygen or flammable gases as energy source.
- Before any maintenance, adjustment, or cleaning work, disconnect the unit from the compressed air source.
- Only use original spare parts.
- Never run unloaded at full idle speed.
- Wear the necessary protective clothing when working with the impact wrench.

Start-up

- Screw the supplied plug-in nipple into the compressed air connection **(E)** and seal it with Teflon tape.
- Insert the required plug-in attachment onto the square **(A)**. Set the correct direction of rotation on the reversing lever **(B)**:
 - Push backwards ("REVERSE") = counter-clockwise = loosen screw





- Push forward ("FORWARD") clockwise = tighten screw
- Push the plug-in attachment onto the screw knob. Actuate the trigger (**C**). On the air regulator (**D**), the air supply can be infinitely adjusted by turning the knob.
- The connection to the compressed air source takes place via a flexible compressed air hose with quick coupling.

Maintenance and care

- Regular lubrication is a prerequisite for the proper functioning of your pneumatic tool and a long service life. The following lubrication options are available:
 - Using a mist lubricator: A complete maintenance unit includes a mist lubricator and is attached to the compressor (not included).
 - Using a line oiler:
 - A line lubricator is installed in the immediate vicinity of the tool (approx. 50 cm distance), which supplies the tool sufficiently with oil.
 - If the pneumatic tool has been out of operation for several days, you must add 5–10 drops of special tool oil to the compressed air connection before switching it on.
 - By hand: If your system has neither a maintenance unit nor a line lubricator, you must add 3–5 drops of special tool oil to the compressed air connection before each commissioning of your impact wrench.
- Store your air tool only in dry, frost-proof rooms.
- Never clean the tool with aggressive cleaning agents.

Tool: chisel hammer

Intended use

- The device is suitable for mortising work in stone, plaster, and masonry.
- The device is **not** suitable for mortising work on floors, road surfaces, etc.

Start-up

**ATTENTION: Never point the rotating end of the tool
at yourself or other persons!**

1. Make sure that the compressor is switched off.
2. Connect the compressed air hose to the compressed air connection of the chisel hammer.
3. Insert the chisels into the chisel hammer holder, fix it with the torsion spring (fix counter-clockwise) so that it is securely locked in place.
4. Connect the compressor to a suitable power outlet.
5. Turn the compressed air regulator of the compressor to the lowest setting.
6. Switch on the compressor.
7. Set the pressure to max. 6 bar.
8. Hold the tool with both hands and press the tip against the workpiece.
9. Pull the trigger of the unit to start it up.
- **NOTE:** The device only works when the tip of the chisel is pressed against the workpiece!
10. Do not press too hard against the material with the chisel, this could lead to an uncontrolled recoil.
11. When the operation is complete, release the trigger and disconnect the unit from the compressed air supply.
12. After disconnecting the compressed air source, press the control lever several times to allow the residual compressed air in the unit to escape.

Chisel change

- Make sure that the unit is disconnected from the compressed air source!



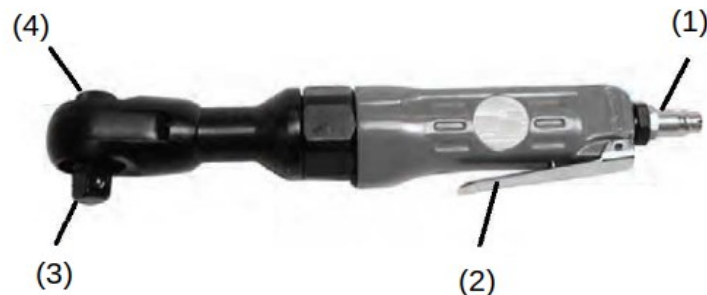
- **IMPORTANT:** Even after disconnecting the unit from the compressed air source, there may still be residual air in the unit! Therefore, press the control lever several times to allow the residual air to escape from the unit!
- Turn the torsion spring clockwise to release the chisel and pull it out.

Maintenance and care

- Regular lubrication is a prerequisite for the proper functioning of your pneumatic tool and a long service life. The following lubrication options are available:
 - Using a mist lubricator: A complete maintenance unit includes a mist lubricator and is attached to the compressor (not included).
 - Using a line oiler:
 - A line lubricator is installed in the immediate vicinity of the tool (approx. 50 cm distance), which supplies the tool sufficiently with oil.
 - If the pneumatic tool has been out of operation for several days, you must add 5–10 drops of special tool oil to the compressed air connection before switching it on.
 - By hand: If your system has neither a maintenance unit nor a line lubricator, you must add 3–5 drops of special tool oil to the compressed air connection before each commissioning of your chisel hammer.
- Store your air tool only in dry, frost-proof rooms.
- Occasionally exchange the spring (see exploded diagram).
- Never clean the tool with aggressive cleaning agents.

Tool: ratchet screwdriver

Figure



№	Name	№	Name
1	Compressed air port	3	Drive unit
2	Trigger	4	Switch lever (right/left rotation)

Intended use

- The ratchet wrench is a handy, pneumatic tool for manual use.
- It is used to generate a rotary motion within a limited working area for loosening or tightening screw connections.

Start-up

- Screw the plug nipple into the reducing nipple. Use a ring spanner or open-end wrench. **Attention:** Seal the thread with Teflon tape!





- Attach the required socket wrench set to the actuator. Connect the air hose with quick coupling to the plug nipple. Place the socket wrench insert on the nut or screw to be loosened or tightened. Set the desired direction of rotation on the changeover lever, actuate the trigger lever.

Maintenance and care

- Regular lubrication is a prerequisite for the proper functioning of your pneumatic tool and a long service life. The following lubrication options are available:
 - Using a mist lubricator: A complete maintenance unit includes a mist lubricator and is attached to the compressor (not included).
 - Using a line oiler:
 - A line lubricator is installed in the immediate vicinity of the tool (approx. 50 cm distance), which supplies the tool sufficiently with oil.
 - If the pneumatic tool has been out of operation for several days, you must add 5–10 drops of special tool oil to the compressed air connection before switching it on.
 - By hand: If your system has neither a maintenance unit nor a line lubricator, you must add 3–5 drops of special tool oil to the compressed air connection before each commissioning of your ratchet screwdriver.
- Store your air tool only in dry, frost-proof rooms.

Tool: Rod grinder

ATTENTION: Never point the rotating end of the tool towards yourself or other persons. Connect the unit to the air supply hose.

Intended use

- The compressed air-powered device is suitable for smoothing surfaces or removing coatings from surfaces.
- Not suitable for industrial processing of parts.

Operating instructions

- Before connecting the compressed air hose to the unit, make sure that the operating lever is **NOT** pressed!
- Always secure the workpiece to be handled before handling it with the pneumatic tool. Never hold the workpiece with one hand while operating the tool with the other!
- Never exert too much pressure on the workpiece, this could result in a recoil with unforeseeable consequences (injuries)!
- All attachment replacement, adjustment and maintenance work may only be carried out with a separate compressed air hose.

Maintenance and care

- Regular lubrication is a prerequisite for the proper functioning of your pneumatic tool and a long service life. The following lubrication options are available:
 - Using a mist lubricator: A complete maintenance unit includes a mist lubricator and is attached to the compressor (not included).
 - Using a line oiler:
 - A line lubricator is installed in the immediate vicinity of the tool (approx. 50 cm distance), which supplies the tool sufficiently with oil.
 - If the pneumatic tool has been out of operation for several days, you must add 5–10 drops of special tool oil to the compressed air connection before switching it on.
 - By hand: If your system has neither a maintenance unit nor a line lubricator, you must add 3–5 drops of special tool oil to the compressed air connection before each commissioning of your rod grinder.
- Store your air tool only in dry, frost-proof rooms.



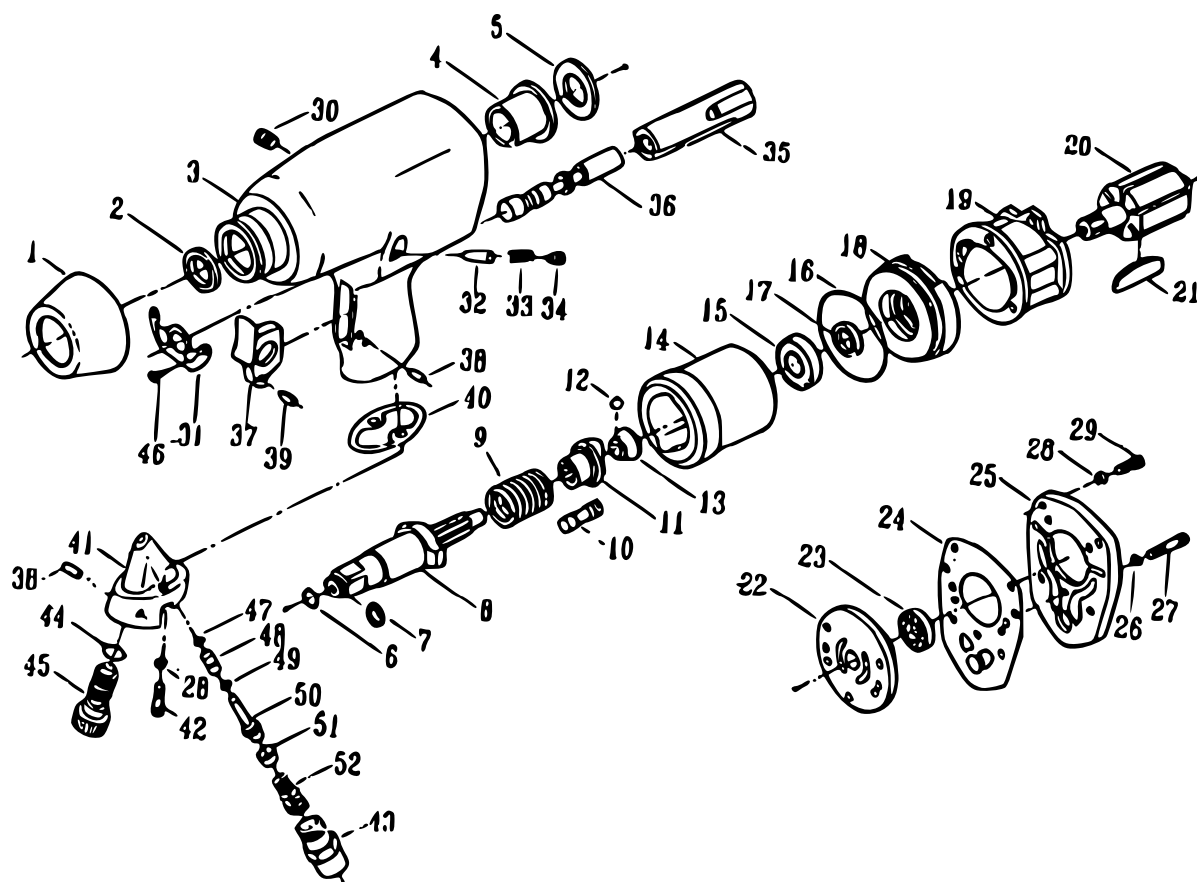
Technical data

Max. operating pressure (applies to all compressed air devices in the set)	6 bar
Impact wrench	
Max. release torque (Nm)	311
Max. tightening torque (Nm)	approx. 250
Max. rotation speed ($\frac{1}{\text{min}}$)	7000
Vibration under load (m/s^2)	< 2.5
Square socket (inch)	$\frac{1}{2}$
Sound pressure level (dB (A))	89
Air consumption ($\frac{1}{\text{s}}$)	approx. 6
Weight (kg)	approx. 2
Chisel hammer	
Stroke rate ($\frac{\text{strokes}}{\text{min}}$)	4500
Air consumption ($\frac{1}{\text{min}}$)	approx. 200
Compressed air connection (inch)	$\frac{1}{4}$
Weight (kg)	approx. 1.5
Ratchet screwdriver	
Max. release torque (Nm)	61
Max. work area	M8
Sound pressure level (dB (A))	89
Vibration under load (m/s^2)	< 14.7
Max. rotation speed ($\frac{1}{\text{min}}$)	150
Air consumption ($\frac{1}{\text{min}}$)	approx. 200
Weight (kg)	approx. 1.2
Rod grinder	
Max. rotations speed ($\frac{1}{\text{min}}$)	22000
Air consumption ($\frac{1}{\text{min}}$)	approx. 200
Compressed air connection (inch)	$\frac{1}{4}$
Weight (kg)	approx. 0.6



Exploded views and parts lists

Impact wrench

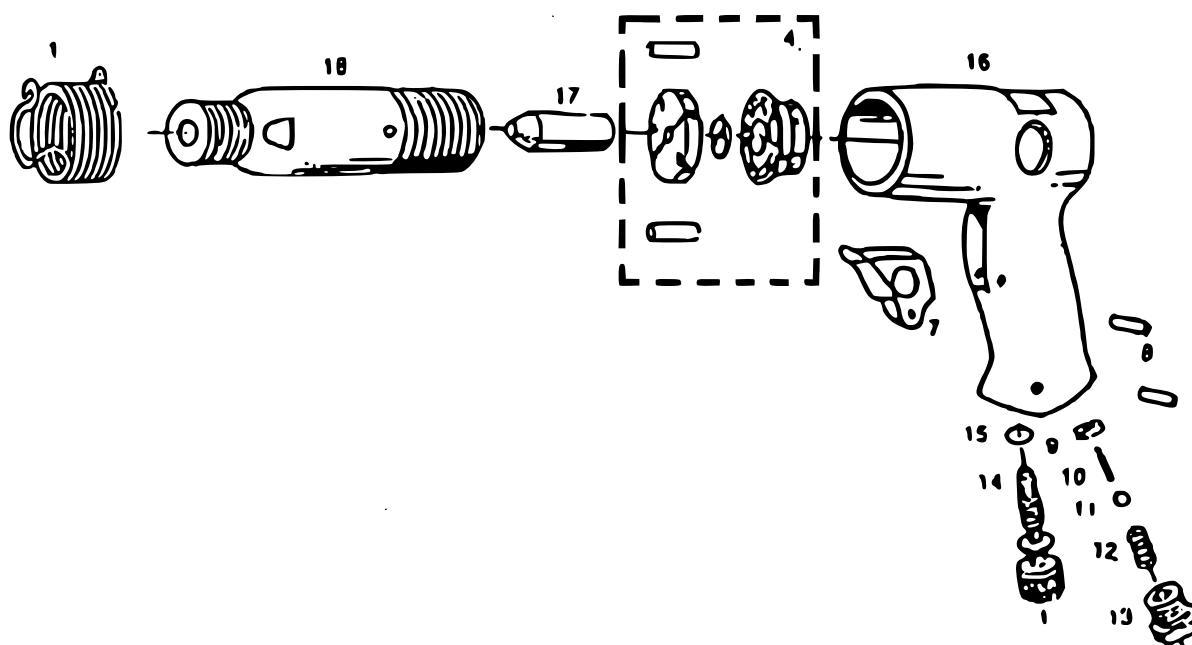


Nº	Name	Nº	Name
1	Rubber cover	27	Hexagon socket twin-head screw
2	Gasket	28	Spring washer
3	Housing	29	Hexagon socket twin-head screw
4	Housing socket	30	Oil screw
5	Spacer ring	31	Absorber
6	O ring	32	Pin
7	Spring washer	33	Spring washer
8	Drive shaft	34	Screw
9	Thrust collar	35	Piston housing
10	Chock	36	Piston
11	Clutch	37	Trigger
12	Steel ball	38	Coiled spring pin
13	Steel ball holder	39	Coiled spring pin
14	Impact mechanism housing	40	Valve block seal
15	Ball bearing	41	Valve block
16	O ring	42	Hexagon socket twin-head screw



17	Gasket	43	Reducing socket/air connection
18	Front cover plate	44	O ring
19	Cylinder	45	Compressed air regulator
20	Rotor	46	Head screw
21	Rotor blade	47	O ring
22	Rear cover plate	48	Valve
23	Ball bearing	49	O ring
24	Gasket	50	Valve pin
25	Cover	51	Fixation (for O ring)
26	Spring washer	52	Thrust collar

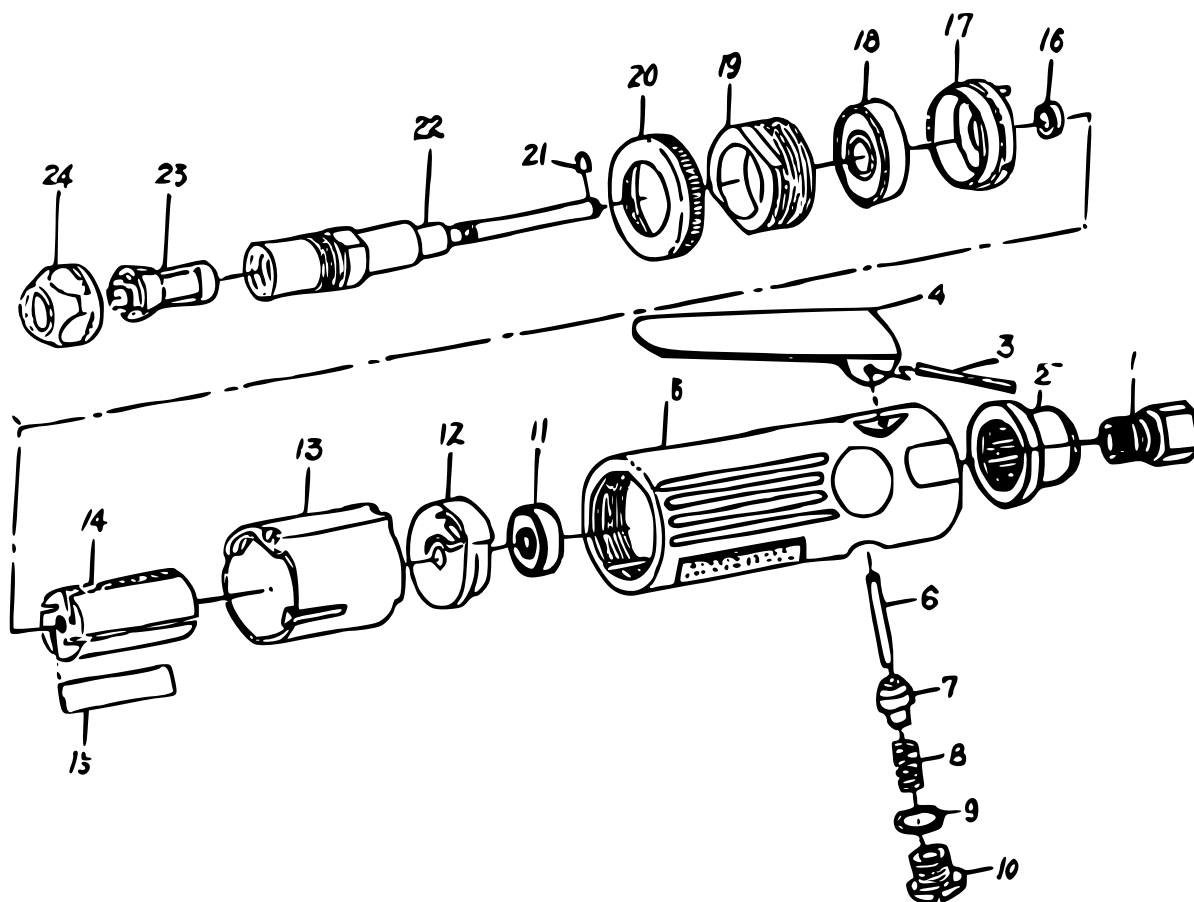
Chisel hammer



Nº	Name	Nº	Name
1	Torsion spring	12	Spring
4	Control valve (complete set)	13	Compressed air supply
7	Trigger	14	Air control screw
8	Clamping sleeve	15	O ring
9	Gasket	16	Housing
10	Valve pin	17	Piston
11	Metal ball	18	Cylinder



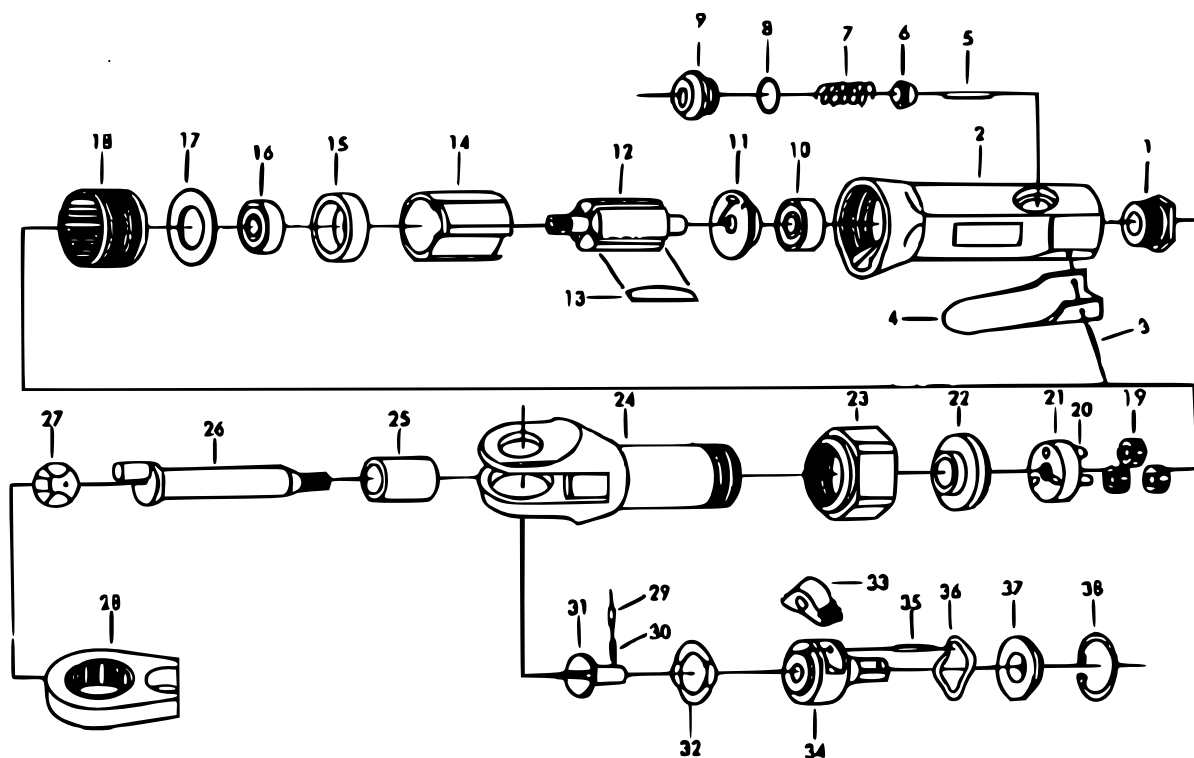
Rod grinder



No	Name	No	Name
1	Compressed air supply	13	Cylinder
2	Connection socket	14	Rotor
3	Pin	15	Rotor blade
4	Trigger	16	Socket
5	Housing	17	Cylinder front cover
6	Valve pin	18	Ball bearing
7	Valve	19	Nut
8	Spring	20	Head plate
9	O ring	21	Washer (U-shaped)
10	Valve screw	22	Spindle
11	Ball bearing	23	Collet chuck
12	Cylinder back	24	Collet chuck nut



Ratchet screwdriver



Nº	Name	Nº	Name
1	Compressed air connection	20	Intermediate bearing pin
2	Housing	21	Intermediate bearing plate
3	Clamping sleeve	22	Spacer
4	Trigger	23	Clamping nut
5	Valve pin	24	Ratchet housing
6	Valve	25	Spacer
7	Spring	26	Crankshaft
8	O ring	27	Drive socket
9	Valve plug	28	Ratchet head
10	Ball bearing	29	Fuse pin
11	Rear end cover	30	Spring
12	Rotor	31	Direction reverser
13	Lamella	32	Corrugated disc
14	Cylinder	33	Ratchet jaw
15	Front end cover	34	Ratchet anvil
16	Ball bearing	35	Pin
17	Spring washer	36	Corrugated disc
18	Thread bearing	37	Starting disc
19	Intermediate bearing	38	Retaining ring



Disposal regulations

EU guidelines regarding the disposal of scrap electric appliances (WEEE, 2012/19/EU) were implemented in the law related to electrical and electronic equipment and appliances.

All WiTec electric devices that fall under the WEEE regulations are labelled with the crossed-out wheeled waste bin logo. This logo indicates that this electric equipment must not be disposed with the domestic waste.

The company WiTec Technik GmbH has been registered in the German registry EAR under the WEEE-registration number DE45283704.

Disposal of used electrical and electronic appliances (intended for use in the countries of the European Union and other European countries with a separate collection system for these appliances).

The logo on the article or on its packaging points out that this article must not be treated as normal household waste but must be disposed to a recycling collection point for electronic and electrical waste equipment. By contributing to the correct disposal of this article you protect the environment and the health of your fellow men. Environment and health are threatened by inappropriate disposal.



Material recycling helps reduce the consumption of raw materials.

Additional information on recycling this article can be provided by your local community, municipal waste disposal facilities, or the store where you purchased the article.

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