

Pneumatic Reciprocating Saw

Type 5 1212 0010

5 1212 0050

5 1213 0010

Tech. Doc. No. 504

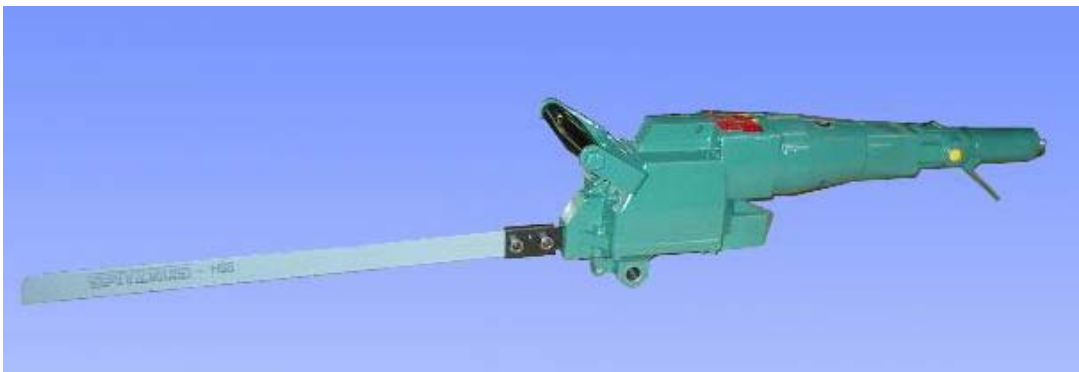


Illustration can differ from the original

Operation and Maintenance Manual



TECHNICAL SPECIFICATION

Type	5 1212 0010, 0050	5 1213 0010
Operating pressure	6 bar	6 bar
Motor output	1.1 kW	1.1 kW
Stroke number (under load)	330 1/min.	330 1/min.
Stroke of saw blade	60 mm	60 mm
Air consumption	1.45 m ³ /min.	1.45 m ³ /min.
Air connection	R 3/4" male	R 3/4" male
Operating pressure	6 bar	6 bar
Weight approx.	6.4 kg	10.65 kg
Cutting capacity for pipes	Ø 530 mm	Ø 530 mm
Cutting capacity for profiles	290 mm	290 mm
Vibration level at free speed	< 2.5 m/s ²	< 2.5 m/s ²
Noise level at 1 m distance	84 dB (A)	84 dB (A)

SAFETY INSTRUCTIONS

**Any power tool can be dangerous.
Please follow these simple procedures.
They are for your protection.**



Wear goggles (chips – risk of injury)



Wear gloves (cutting damages by sharp edged work pieces)



Wear safety shoes



Wear protective clothing

Remove rings, watches, ties etc. that could be torn by the machine.
Dress properly. Do not wear loose clothing or jewellery, it can be caught in moving parts.

Follow the general current and appropriate Accident Prevention and Safety Procedures.

Never work under the influence of alcohol, drugs or stronger medication.

Always make sure that you have a safe foothold.

Maintain a proper footing and balance at all time. Never work with the machine while standing on a ladder or leaning against a scaffold.

Secure the working place well. Use clamps or a vice to fix the work piece. This is safer than using hands and clears both hands for operating the machine.
Hold the machine tight during operation.

Keep your working area clean and uncluttered.

Keep children away and avoid other persons to come into contact with the machine.

Switch off the machine if it stops - for any reason - to avoid the unexpected starting in uncontrolled condition.

Do not operate the tool if it is damaged, improperly adjusted or not completely and correctly assembled.

Check air hose for damage.

Work with oleiferous air only.

Avoid sparks in hazardous environment - created by the saw blade. Always flush material and saw blade for cooling with sufficient water during working.

Do not employ machines by excessive force. Their performance is better and safer, if they work at the prescribed speed.

Check damaged parts.

Before using the machine, damaged parts or protective devices should be carefully checked to make sure they work soundly and fulfil the designated function. Check alignment, connections and attachment of moving parts. Also check if parts are broken. Parts or protective devices that are damaged should, if nothing else is mentioned in these operating instructions, only be exchanged or repaired by qualified personnel. The same applies to defective switches and valve triggers. If the machine cannot be switched on or off with the valve trigger, it should not be used.

The use of other accessories, or other additional items than recommended in these operating instructions, may include the risk of bodily injury.

Only operate the tool after a thorough training or under supervision of a trainer.

Never exceed the maximum operation pressure.

Follow the valid national provisions in the country of application.

ATTENTION! Never use the flexible hose as a lifting handle!

Use

Intended Use

Skilled personnel only is allowed to operate the machine.

The machine (reciprocating saw) serves for cutting (shortening, cutting off to length) of different materials and profiles. Mainly the saw will be used fixed in a clamping device that is corresponding to the intended purpose.

But cutting without clamping device is also possible!

Improper Use

Any use deviating from the intended use as described is considered to be improper use.

Working without personal protection equipment.

Danger Zones

Operational condition ----- Life phase	Normal function	Malfunction	Improper use	Expected use
Transport	Transport of the machine in an inoperable condition	Drop of the machine	Transport of the machine in an operable condition	unknown
Start-up Operation	Operating the machine with designated device	unknown	unknown	Working without device
Operation	Machine only works with actuated valve	Machine runs without actuated valve	Switch is blocked in actuated condition	unknown
	Machine moves the tool	Tool blocks	unknown	unknown
Maintenance	Operation at a maintenance unit	Breakdown of the machine	unknown	unknown

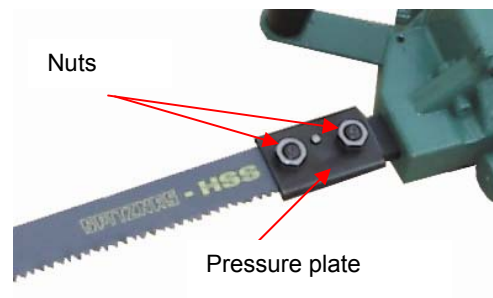
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General

Our pneumatic saw is designed for a service pressure of 4 to 6 bar. The pneumatic reciprocating saw is only used in conjunction with a clamping device. For this purpose the ground- in receiving bolt of the clamping device is placed in the cross hole in gear casing cover and fixed by means of the locking device. Firmly clamped work-piece will yield a clean cut and will reduce saw blade damage. The selection of the clamping device and of the saw blade depends on the type and size of the work-piece. The saw blade must be cooled and/ or lubricated with lubricant or oil.

Cutting

- Check oil level and fill up oiler, if necessary.
- Equip saw with the appropriate saw blade. For this loosen two nuts, take away the pressure plate and put in the saw blade. Mount the pressure plate and fix it to the saw blade by tightening the nuts.



- Connect pneumatic hose. (Before connecting, it is recommended to blow out the hose and thus remove impurities).
- Actuate valve and press sensor button. (Only after pressing the sensor button, the channel is opened. When the valve is closed, the sensor shuts as well. When the valve is opened again, the sensor button has to be pressed again as well.)
- Start cutting.
- Ensure appropriate cooling (water) of tool and working piece.

After finishing the sawing work

- Shut valve
- Shut compresser air supply and disconnect air hose..
- Take saw out of the device.
- Clean saw and retainer seat.
- Check oiler

Wartungsanweisung

Unsere Druckluftmotoren sind für einen Betriebsdruck von 4-6 bar ausgelegt.
Die Lebensdauer und die Leistung dieser Maschine werden maßgebend bestimmt durch:

a) den Reinheitsgrad der Luft

Vor Anschluss an die Maschine den Luftschauch ausblasen.

Wenn sich im Leitungsnetz Rost bilden und Wasser absetzen kann, sind Schmutz- und Wasserabscheider vorzuschalten.

b) die Schmierbedingungen und Wartung

Siehe „Wartung von Druckluft-Werkzeugen“

Die richtige Fettmenge ist mit Rücksicht auf gute Schmierung und geringer Erwärmung sehr wichtig. Die in nachstehender Tabelle aufgeführten Fettmengen müssen eingehalten werden.

Grease	Quantity in grams
In the crank casing	100
In the bevel gears	40
In the spur gears	30

MAINTENANCE OF PNEUMATIC TOOLS

Only proper maintenance can ensure constant performance, reduction in wear and thus, a decrease in operating costs and an increase in service life.

Our pneumatic tools are equipped for an operating pressure of 6 bar. A regulator setting for an operating pressure of 4 bar is possible as well as expedient for grinding machines with a built-in regulator, so as to take full advantage of the speed prescribed for the corresponding grinding wheels.

Pneumatic tools should not run empty, because this results in heat and higher wear. The compressed air should be clean and dry. This is guaranteed by a proper pneumatic system. Blow through the pneumatic hose before connecting it. For the economical use of pneumatic tools, the prescribed air quantities are necessary, i.e., the line, armatures and hoses must have the required cross sections so that the flow pressure remains constant. Proper lubrication is a must; for this reason, our pneumatic tools usually have built-in oilers, which are located between the inlet valve and the motor, and which function in any position. In smaller and lighter hand tools, these oilers must often be left out, because the machines would then be too heavy and not easy to manage. In such cases, lubrication must be carried out by service units or by manual hose oilers. We recommend service units for permanently installed workplaces

(see accessories list). However, where longer hose lines are necessary, line oilers built into the hose lines are more effective. The distance between the tool and oiler should not be more than 5 m.

Most of pneumatic tools have located at the connection a lined-up screen, which is to be regularly checked and cleaned.

After ending a working task, the machines are to be flushed with a thin oil, or protected some other way against corrosion.

Visible grease nipples are provided for regular lubrication of the gears with a grease gun. Note the following for grease lubrication: Every 60 hours of operation check striking mechanism, friction bearings and antifriction bearings; if necessary, grease them. Every 300 hours of operation grease the gears and antifriction bearings anew. In the case of impact wrenches, use a grease gun to grease the anvil guide before beginning daily work or every 6 to 8 hours. All inner parts must be lubricated before storing for longer periods of time in order to prevent rusting. It is recommend to check the vanes and bearings at regular intervals. Store pneumatic tools in dry rooms only.

Lubricating oils to be used:
Generally SAE 5 W to SAE 10

For gearless impact wrenches and small grinders, only SAE 5 W

For damp compressed air, oils are to be used that take up water (without losing the lubricating effect) and that contain anticorrosive additives. At lower temperatures (especially for work outside) it may be necessary to use an antifreeze lubricant (e.g., Killfrost, BP Energol AX 10, Kompranol N 74).

For saw-chain lubrication on chain saws:

Machine oil **with adhesive additive**, viscosity c ST 49-55' (6.5-7.5 E) / 50° C

Greases (free of resins and acids)

Multi-purpose greases for antifriction and friction bearings and gears

Special greases for high-speed miter gears

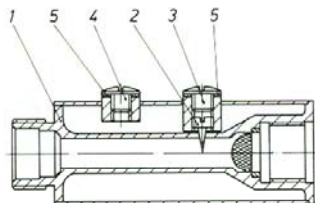
Designation in accordance with DIN 51502
Consistency class (DIN 51818)
Saponification type
Dripping point
Worked penetration
Temperature range

KL 2 K
2
lithium
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265 to 295
-25° C to 125° C

G 00 h
00
sodium
145° C
400 to 410
-25° C to + 100° C



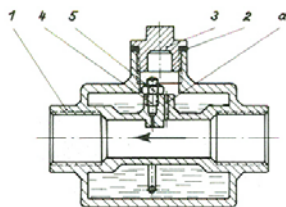
OILER TYPES USED ON OR WITH OUR TOOLS



Oiler to mount on the machine or connect in the hose line

Setting the oiler: The adjustment screw (Item 2) is visible after removing the screw plug (Item 3). The oil supply is decreased by tightening the screw, and by loosening the screw, more oil gets into the machine. In most cases it is sufficient to tighten or loosen the screw by 1/4 or 1/2 of a turn. When plugged, clean borehole (dia. 2 mm) with wire.

Correct setting: When under pressure and with the filler screw (Item 4) open, the oil must bubble slightly. The filling lasts for approx. 8 operating hours.

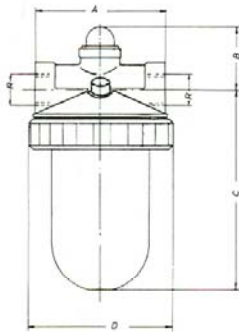


Line oiler

For stationary pneumatic machines and motors, the lubrication is carried out by lined-up oilers for horizontal or vertical installation.

Setting of oilers: Shut off air supply. Open plug (Item 3). Loosen visible lock nut (Item 5) with a socket wrench. Using a screw driver turn back the tightened screw plug (Item 4) by 1/4 to 1/2 of a turn and then lock again. No oil is to get into the borehole "a" when filling. Close plug (Item 3) and open the air supply.

Correct setting: A piece of paper held for a short time in front of the outlet must be coated with oil without drops forming.



Transparent oiler

For installing in permanently equipped workplaces.
(especially for type using service units — see accessories list)

The transparent supply containers allow for good checking as well as for good setting possibility by means of a screw driver via a set screw with visible dripping. (The set screw is above the lateral thread connection — turning to the right for less oil; turning to the left for more oil). The setting (2 to 5 drops per m³/min air consumption) is to be carried out when air is flowing through, i.e., when the machine is running.



Spare Parts and Accessories

Only original spare parts may be used. There is no warranty for damages and liability is disclaimed, if non-original spare parts and accessories are used.

The repairing of the machine is allowed authorized expert companies only.

The accessories applicable with our machine are listed in our brochure.

Troubleshooting

	Problem	Cause	Remedy
a	Machine does not start	Air not connected	Connect and open air line
b	Machine rotates too slowly	Operating pressure too low	Increase operating pressure (on the machine) to 6 bar
c	Gearbox makes strong noise		Contact authorized expert company
d	Other problems		Contact authorized expert company

Declaration of Conformity

as defined in the European Union Machine Directive 2006/42/ EC
for usable machines

We, the company

SPITZNAS Maschinenfabrik GmbH, Fellerstraße 4, 42555 Velbert– Langenberg,
declare, that the following product

Description: Pneumatic Reciprocating Saw
Model 5 1212 0010, 0050

complies with the provisions of the European Union Machine Directive 2006/42/ EC
and 94/9 EC (Atex 95 – group II, category 2, G c T5) and conforms to the following standards or
standardized documents:

DIN EN ISO 12100
DIN 24063
DIN EN 1127
DIN EN 13463

According to section 8 (1) ii) of the directive 94/9/EC technical documentation is deposited under
reference No. 968/Ex-AB 323/03 at the following office:

TÜV Rheinland Industrie Service GmbH
Haumannplatz 4, 45130 Essen
(Registration No. 0035 for the scope of
the Directive 94/9/EC)

Name of the authorized person for documentation: Mr. Wolfgang Klare

Address of the authorized person for documentation: see manufacturer's address

42555 Velbert, 04.04.11

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as defined in the European Union Machine Directive 2006/42/ EC
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We, the company
SPITZNAS Maschinenfabrik GmbH, Fellerstraße 4, 42555 Velbert– Langenberg,
declare, that the following product

Description: Pneumatic Reciprocating Saw
Model 5 1213 0010
complies with the provisions of the European Union Machine Directive 2006/42/ EC
and 94/9 EC (Atex 95 – group I, category M2, c T5) and conforms to the following standards or
standardized documents: DIN EN ISO 12100
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