

# P2540

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Needle scaler


Valid from Serial No. -  
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## Product Instructions

P2540

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	<b>⚠ WARNING</b>
	<p><b>Read all safety warnings and instructions</b> <i>Failure to follow the safety warnings and instructions may result in electric shock, fire and/or serious injury.</i> <b>Save all warnings and instructions for future reference</b></p>

**Atlas Copco**

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## Product information

### General information

#### **WARNING Risk of Property Damage or Severe Injury**

Ensure that you read, understand and follow all instructions before operating the tool. Failure to follow all the instructions may result in electric shock, fire, property damage and/or severe bodily injury.

- ▶ Read all safety Information delivered together with the different parts of the system.
- ▶ Read all product Instructions for installation, operation and maintenance of the different parts of the system.
- ▶ Read all locally legislated safety regulations with regard to the system and parts thereof.
- ▶ Save all safety information and instructions for future reference.

### Safety signal words

The safety signal words Danger, Warning, Caution, and Notice have the following meanings:

DANGER	DANGER indicates a hazardous situation which, if not avoided, <b>will</b> result in death or serious injury.
WARNING	WARNING indicates a hazardous situation which, if not avoided, <b>could</b> result in death or serious injury.
CAUTION	CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	NOTICE is used to address practices not related to personal injury.

### Warranty

- Product warranty will expire 12 months after the product is first taken into use, but will in any case expire at the latest 13 months after delivery.
- Normal wear and tear on parts is not included within the warranty.
  - Normal wear and tear is that which requires a part change or other adjustment/overhaul during standard tools maintenance typical for that period (expressed in time, operation hours or otherwise).
- The product warranty relies on the correct use, maintenance, and repair of the tool and its component parts.
- Damage to parts that occurs as a result of inadequate maintenance or performed by parties other than Atlas Copco or their Certified Service Partners during the warranty period is not covered by the warranty.
- To avoid damage or destruction of tool parts, service the tool according to the recommended maintenance schedules and follow the correct instructions.
- Warranty repairs are only performed in Atlas Copco workshops or by Certified Service Partners.

Atlas Copco offers extended warranty and state of the art preventive maintenance through its ToolCover contracts. For further information contact your local Service representative.

For electrical motors:

- Warranty will only apply when the electric motor has not been opened.

## ServAid

ServAid is a portal that contains the most up-to-date product information such as:

- Safety Information
- Installation, Operation and Service Instructions
- Exploded views

It is also possible to order spare parts, service tools and accessories for the product of your choice directly from ServAid. It is continuously updated with information about new and redesigned products.

If translations exist, you can view content in the language of your choice. ServAid offers advanced search functionality of our entire product range and can also be used to display information about obsolete products.

ServAid is available on DVD and on the website:

<https://servaid.atlascopco.com>

For further information contact your Atlas Copco sales representative or e-mail us at:

[servaid.support@se.atlascopco.com](mailto:servaid.support@se.atlascopco.com)

## Website

Log in to Atlas Copco: [www.atlascopco.com](http://www.atlascopco.com).

You can find information concerning our products, accessories, spare parts and published matters on our website.

## Safety Data Sheets MSDS/SDS

The safety data sheets describes chemical products sold by Atlas Copco.

For more information, consult the website:

[www.atlascopco.com](http://www.atlascopco.com)

Choose **Products - Safety Data Sheets**, and follow the instructions on the page.

## Country of origin

Please refer to the information on the product label.

## Dimensional drawings

For information about the dimensions of a product, see the Dimensional drawings archive:

<http://webbox.atlascopco.com/webbox/dimdrw>

## Service overview

### Service recommendations

Preventive maintenance is recommended at regular intervals. See the detailed information on preventive maintenance. If the product is not working properly, take it out of service and inspect it.

If no detailed information about preventive maintenance is included, follow these general guidelines:

- Clean appropriate parts accurately
- Replace any defective or worn parts

## Installation

### *Installation requirements*

#### Air quality

- For optimum performance and maximum product life we recommend the use of compressed air with a maximum dew point of +10°C (50°F). We also recommend to install an Atlas Copco refrigeration type air dryer.
- Use a separate air filter which removes solid particles larger than 30 microns and more than 90% of liquid water. Install the filter as close as possible to the product and prior to any other air preparation units to avoid pressure drop.
- ⓘ Make sure that the hose and couplings are clean and free from dust before connecting to the tool.
- ⓘ Both lubricated and lubrication free products will benefit from a small quantity of oil supplied from a lubricator.

#### Air lubrication guide

Brand	Air lubrication
Atlas Copco	Optimizer (1 liter) 9090 0000 04
Q8	Chopin 46
Shell	Shell Air Tool Oil S2 A 320

#### Compressed air connection

##### ⚠ WARNING Compressed air can cause serious injury

- ▶ Always shut off the air supply, drain hose of air pressure and disconnect the tool from air supply; when not in use, before making any adjustments to the product - for example changing accessories, or when making repairs.

##### ⚠ WARNING Whipping hoses can cause serious injury

- ▶ Always make sure that there are no damaged or loose hoses or fittings.

##### ⚠ WARNING Compressed Air

High air pressure can cause severe damage and injury.

- ▶ Do not exceed maximum air pressure.

For correct air pressure and hose size, see section **Technical data**.

- ⓘ Make sure that the hose and couplings are clean and free from dust before connecting to the tool.

### *Installation instructions*

#### Installation of vibrating tools

It is recommended that a minimum length of 300 mm (12") of flexible hose for compressed air is inserted between a vibrating tool and the quick-action coupling.

## Operation

### *Ergonomic guidelines*

Consider your workstation as you read through this list of general ergonomic guidelines and see if you can identify areas for improvement in posture, component placement, or work environment.

- Take frequent breaks and change work positions frequently.
- Adapt the workstation area to your needs and the work task.
  - Adjust for convenient reach range by determining where parts or tools should be located to avoid static load.
  - Use workstation equipment such as tables and chairs appropriate for the work task.
- Avoid work positions above shoulder level or with static holding during assembly operations.
  - When working above shoulder level, reduce the load on the static muscles by reducing the weight of the tool, using for example torque arms, hose reels or weight balancers. You can also reduce the load on the static muscles by holding the tool close to the body.
  - Make sure to take frequent breaks.
  - Avoid extreme arm or wrist postures, particularly for operations requiring a degree of force.
- Adjust for convenient field of vision by minimizing movement of the eyes and head during the work task.
- Use the appropriate lighting for the work task.
- Select the appropriate tool for the work task.
- Use ear protection equipment in noisy environments.
- Use high-quality inserted tools or consumables to minimize exposure to excessive levels of vibration.
- Minimize exposure to reaction forces.
  - When cutting:

A cut-off wheel can get stuck if the wheel is either bent or if it is not guided properly. Make sure to use the correct flanges for cut-off wheels and avoid bending the wheel during cut-off operation.
  - When drilling:

The drill might stall when the drill bit breaks through. Make sure you use support handles if the stall torque is too high. The safety standard ISO11148 part 3 recommends using something to absorb the reaction torque above 10 Nm for pistol grip tools and 4 Nm for straight tools.
  - When using direct-driven screw or nutrunners:

Reaction forces depend on tool setting and joint characteristics. The ability to bear reaction forces depends on the operator's strength and posture. Adapt the torque setting to the operator's strength and posture and use a torque arm or reaction bar if the torque is too high.
- Use dust extraction system or mouth protection mask in dusty environments.

## Service

### *Maintenance instructions*

#### Overhaul and lubrication

If the tool is normally used as a heavy-duty tool it should be dismantled, overhauled and cleaned after 120 hours in operation. If the tool is not operating correctly, it should be taken out of service for inspection. Use lubricants of good quality. The air motor oils and greases mentioned in the grease guide are examples of lubricants which are recommended.

At the overhaul, do the following:

- Inspect all disassembled parts for wear.
- Replace the cylinder ball and all the o-rings.
- Clean the dismantled parts with highly refined paraffin.
- Lubricate sliding parts before assembly.

#### *NOTICE* Risk of Cylinder Ball Damage

A metallic cylinder ball will damage the cylinder valve seat and piston valve pin.

- ▶ Do not replace the plastic cylinder ball with a metallic version.

### *Lubrication instructions*

#### Lubricating guide

Use lubricants of good quality. The oils and greases listed in the lubrication table are examples of lubricants that can be recommended.

Brand	General purpose
	Bearings
BP	Energrease LS-EP2
Castrol	Spheerol EP L2
Esso	Beacon EP2
Q8	Rembrandt EP2
Mobil	Mobilegrease XHP 222
Shell	Alvania EP2
Texaco	Multifak EP2
Molycote	BR2 Plus



## Recycling

### *Recycling instruction*

When a product has served its purpose it has to be recycled properly. Dismantle the product and recycle the components in accordance with local legislation.

Batteries shall be taken care of by your national battery recovery organization.





Original instructions



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