

**DRAPER**

**EN**

Original Instructions  
Version 3  
August 2025

# DUAL ACTION **AIR PALM SANDER**

**84125**



**UK  
CA** **CE**

# 1. Preface

## 1.1 Product Reference

User Manual for: Dual Action Air Palm Sander

Stock No: 84125

Part No: DAT-APS

## 1.2 Revisions

Version 1: October 2017

First release

Version 2: August 2022

Version 3: August 2025

Please visit [drapertools.com/manuals](https://drapertools.com/manuals) for the latest version of this manual and the associated parts list, if applicable.

## 1.3 Understanding the Safety Content of This Manual

 **WARNING!** – Situations or actions that may result in personal injury or death.

 **CAUTION!** – Situations or actions that may result in damage to the product or surroundings.

**Important:** – Information or instructions of particular importance.

## 1.4 Copyright © Notice

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3.1 Intended Use

This palm sander is fitted with a hook and loop backing pad suitable for use with 150mm diameter abrasive sheets. It is intended for sanding and smoothing surfaces using an orbital action and suitable for use with a compressed air supply.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

3.2 Specification

Stock No.	84125
Part No.	DAT-APS
Backing Pad Diameter	150mm
Revolutions Per Minute (no load)	10,000rpm
Max. Air Pressure Operation	90psi (6.2bar)
Average Air Consumption	4.5cfm (127L/min)
Minimum Air Line Size (ID)	3/8" (10mm)
Air Inlet Connector	1/4" BSP

Noise Emissions:

Sound pressure level (LpA)	87dB(A)
Sound power level (LWA)	98dB(A)
Vibration Level	8.5m/s²
Net Weight	1.11kg

**Important:** The declared vibration total values and noise emissions values have been measured in accordance with a standard test method and may be used for comparing one tool with another. These values may also be used in a preliminary assessment of exposure.



**WARNING!** The vibration and noise emissions during actual use of the product can differ from the declared values depending on the type of work and the area upon which it is used. Before each use, estimate the likely exposure resulting from the actual conditions of use. Take into account all parts of the operation cycle in order to identify any safety measures required to protect the operator.

## 4. Health and Safety Information

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**Important:** These instructions are intended as a guide to the safe use of this product. Additional or specific risks associated with each operation and workpiece material must be undertaken before each operation. **DO NOT** operate this tool if you are unfamiliar with the risks associated with its use.

### 4.1 Health and Safety Instructions for this Air Sander



**WARNING!** Read and understand the safety instructions before installing, operating, repairing, maintaining, replacing accessories, or working near the sander. Failure to do so can result in serious bodily injury.

#### General Safety Instructions

- Only trained and authorised personnel may install, adjust or operate the sander.
- **DO NOT** modify this sander.
  - Modifications can reduce the effectiveness of safety measures and increase the risk of injury.
- Retain these instructions for the life of the product and pass them on with the tool to any future operators.
- **DO NOT** use this sander if it shows any evidence of damage or disrepair.
- Regularly inspect the sander to ensure that all safety markings remain legible.
  - Contact Draper Tools if the safety markings need to be replaced and **DO NOT** use the tool.

#### Projectile Hazards

- Be aware that failure of the workpiece, accessories or tool itself may generate high-velocity projectiles.
- **ALWAYS** wear impact-resistant eye protection during operation of the sander and assess the grade of protection required with each use.
- When working overhead, **ALWAYS** wear a safety helmet.
- Carefully assess the risk to others before every operation and ensure that all bystanders are clear of the work area or equipped with suitable protective equipment.
  - Keep this product out of reach of children at all times.
- **ALWAYS** ensure that the workpiece is firmly gripped by a clamp or vice; **NEVER** hold the workpiece by hand.

#### Entanglement Hazards

- Keep loose clothing, gloves, hair and jewellery well away from the sander at all times.
  - Entanglement in the spinning pad can cause significant injury.

#### Operating Hazards

- Wear suitable protective gloves to guard against injury from cuts, abrasion and heat.
- If the workpiece becomes hot during operation, stop the tool and allow the material to cool before continuing.
- Hold the tool correctly and firmly and brace yourself against sudden movements, keeping both hands available.
- Maintain good balance and secure footing at all times while operating the tool.
- Release the trigger lever immediately if the air supply is interrupted.
- **ONLY** use lubricants recommended by Draper Tools.
- **ALWAYS** wear protective safety glasses while using this tool.
  - It is also recommended to wear protective gloves and other protective clothing appropriate to the specific conditions of the operation.
- Inspect the backing pad for signs of damage before **EVERY** use.
  - **DO NOT** use the sander if the backing pad is broken or cracked or the tool has been dropped.
- **NEVER** touch the backing pad or sanding sheet while the tool is in operation.
  - **ALWAYS** allow the tool to come to a complete stop and disconnect the air supply before handling or adjusting the sanding sheet or backing pad.
- **NEVER** use the tool without a suitable sanding disc/sheet attached.
- Use on plastic or other non-conductive materials increases the risk of electrostatic discharge.
- Dust and fumes caused by sanding operations may create potentially explosive environments.
  - **ALWAYS** ensure that dust extraction or suppression systems are used with this tool and are suitable for use with the workpiece materials.

## Repetitive Motion Hazards

- When operating a sander frequently or for extended periods, the operator may experience discomfort in the hands, arms, shoulders, neck and other parts of the body.
- While using the sander, adopt a comfortable posture while maintaining secure footing and avoiding awkward or off-balance positions.
  - Change posture and operating positions regularly during extended use to help avoid discomfort and fatigue.
- **DO NOT** ignore symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness or burning sensations.
  - If these symptoms occur, stop using the tool and consult a qualified health professional.
- Perform a risk assessment and implement any appropriate controls for identified hazards before performing any operation.
- Any risk assessment performed must include dust created by use of the tool and disturbance of any existing dust.
- Operate and maintain the sander appropriately to minimise the dust or fume emissions.
- Direct the exhaust so as to minimise disturbance of existing dust in dusty environments.
- Where dust or fumes are created, priority must be given to controlling them at the point of emission.
- All integral features and accessories for the collection, extraction or suppression of airborne dust or fumes must be correctly used and maintained in accordance with the manufacturer's instructions.
- Select, maintain and replace the backing pad and sanding discs/sheets as recommended in the manual to prevent any unnecessary increase in the emission of dust or fumes.
- Use appropriate respiratory protection in accordance with local occupational health and safety regulations.

## Accessory Hazards

- **ALWAYS** disconnect the sander from the air supply before fitting or changing accessories.
- Avoid direct contact with the sanding disc/sheet and backing pad during and immediately after operation as it may become hot during use.
- **ONLY** use accessory types and sizes recommended by Draper Tools.
- **ALWAYS** ensure that the maximum operating speed of the backing pad is higher than the rated speed of the sander.
- Self-fixing sander discs /sheets must be placed concentrically on the supporting pad.

## Workplace Hazards

- Stay alert for surfaces that may become slippery as a result of use of this tool and for trip hazards caused by the air line.
- This sander is not suitable for use in potentially explosive atmospheres and is not insulated against contact with electric power.
- Ensure that there are no electrical cables, gas pipes, etc. present in the workpiece that may cause a hazard if damaged by the tool.
- Exposure to high noise levels can cause permanent hearing loss and other problems.
  - Perform a risk assessment and implement any appropriate controls for identified hazards before performing any operation.
- Implement appropriate controls, such as dampening materials, to prevent the workpiece from "ringing" during operation.
- Use appropriate hearing protection in accordance with local occupational health and safety regulations.
- Operate and maintain the sander appropriately to prevent unnecessary increase in noise emissions.

## Vibration Hazards

- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
- Wear warm clothing when working in cold conditions and keep your hands warm and dry.
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the sander and consult a qualified health professional.

## Dust and Fume Hazards

- Dust and fumes generated by sanding operations can cause ill health (e.g., cancer, birth defects, asthma and/or dermatitis).

# 5. Identification and Unpacking

- Operate and maintain the sander appropriately to prevent unnecessary increase in vibration emissions.
- The risks from vibration hazards are increased when grip force on the tool is higher. – Hold the sander with a light but safe grip, keeping in mind that your grip may need to be altered to react to unexpected forces.

## 4.2 Additional Safety Instructions for Compressed Air



**WARNING! Compressed air can cause severe injury.**

- **ALWAYS** turn off and disconnect the air supply before making any adjustments to the product or leaving it unattended.
  - **NEVER** direct this product towards yourself or others.
  - Ensure that compressed air is not blocked by or in contact with any part of your body.
- **ONLY** use clean, dry and regulated compressed air.



**WARNING! NEVER use oxygen, combustible gases or other bottled gases as a supply for this product. Use of these substances may cause the product to explode.**

- Draper Tools recommends the use of a whip hose between the tool and the air supply to reduce vibration.



**WARNING! Whipping hoses can cause severe injury. Always check for and replace damaged or loose hoses and fittings.**

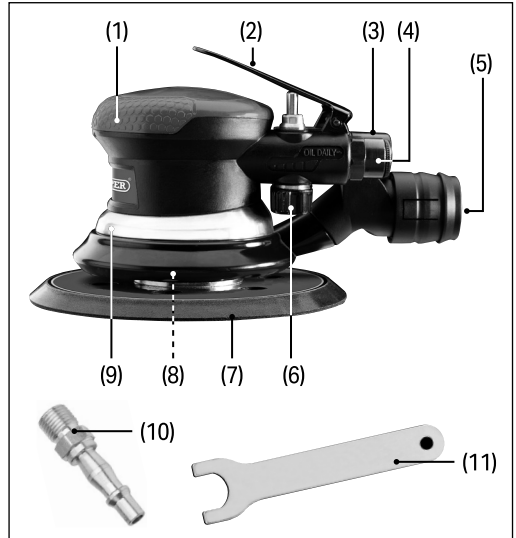
- Ensure that the product is compatible with the air supply before use.
- Ensure all connections are securely tightened.
- Where universal twist couplings (claw couplings) are used, lock pins must be installed and whip check safety cables must be used to safeguard against possible hose-to-tool or hose-to-hose failure.
- **DO NOT** exceed the maximum stated air pressure.
- **DO NOT** obstruct the ability of the trigger to release once depressed.
- **NEVER** carry the tool by the air line.

## 4.3 Residual Risk

The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.

## 5.1 Product Overview

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment. If any part is damaged or missing, do not attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.



1. Low vibration soft grip
2. Palm trigger
3. Air outlet
4. 1/4 BSP air inlet connector
5. Dust extraction outlet
6. Variable speed control
7. Hook and loop backing pad
8. Spindle
9. Aluminium body
10. Airline coupling screw adaptor
11. Spanner

Please visit [drapertools.com](http://drapertools.com) for our full range of accessories and consumables.

## 5.2 Packaging

Keep the product packaging for the duration of the warranty period in case the product needs to be returned for repair.



**WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.**

## 6. Preparation Instructions

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**Important:** Before preparing or adjusting this product, read and understand all the safety instructions listed in this manual.

**Important:** Always disconnect from the air supply before assembling, carrying out adjustments, servicing or maintenance.

### 6.1 Preparing the Air Supply for use

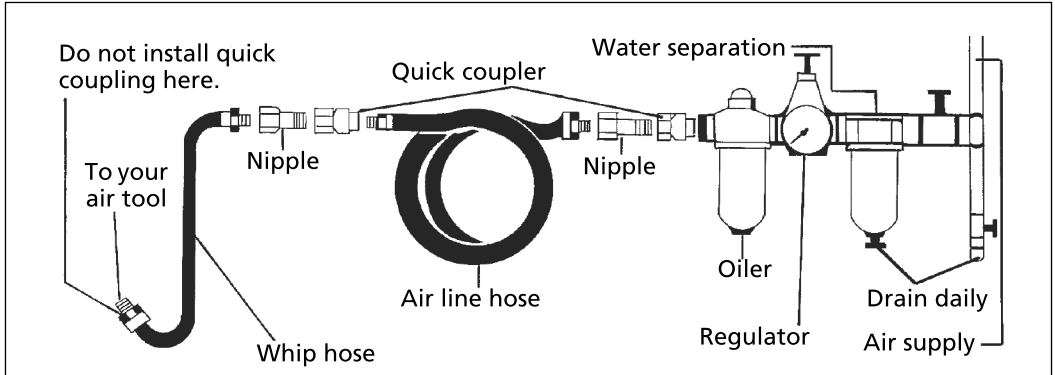


Fig. 1

- This air tool operates at a max. pressure of 6.2bar (90psi).
- The compressed air system must be controlled by a combination pressure regulator, in-line lubricator and moisture filter. This will ensure a constant supply of dry air at all times, provided it is properly maintained.
- **Important:** Always check the machine operating pressure before use.
- Water in the compressor tank may cause considerable corrosion to air tools; the compressor should be drained daily to avoid excessive water in the air supply. Dirty or wet air can significantly shorten the lifespan of the product.
- When using an air tool with a hose over 25ft long, Draper Tools recommends increasing the bore of the hose to the next largest available size (i.e. increase 3/8" to 1/2"). This will ensure adequate pressure and volume of air to power the tool.

### 6.2 Connecting to the Air Supply - Fig. 2

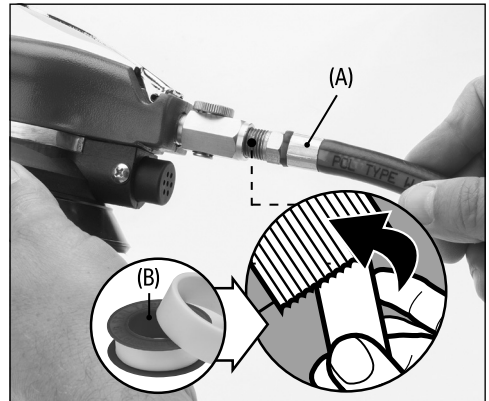


Fig. 2

**Important:** It is recommended to use a 1/4" BSP male-threaded thread whip hose (A) (not supplied) to connect the tool to the air line in order to reduce vibration.

1. Wrap a length of PTFE tape (B) around the air line coupling (4) or the whip hose thread.
2. Remove the bung from the inlet connector (4) and attach the air line coupling or whip hose to the air inlet. Check that the connection is secure and airtight.

## 7. Operation

### 6.3 Attaching the Sanding Sheets – Fig. 3

**Important:** **ALWAYS** ensure that the air line is disconnected before installing, adjusting or removing the sanding sheets.



Fig. 3

This product is compatible with hook-and-loop-backed sanding sheets/discs.

- To attach, align the edge of the sanding sheet with the backing pad and press firmly in place.
- Sanding sheets should be replaced when they become damaged, excessively worn or fail to sand the workpiece appropriately during use.
- If the sheet is a non-punched type use a suitable tool to pierce the sheet to align with the holes in the backing pad to aid with dust removal.



**CAUTION!** The sanding sheet **MUST** be suitably sized for the backing pad. Use of over- or under-sized sheets may cause significant damage to the backing pad or spindle.

### 6.4 Dust Collection – Fig. 4

**Important:** To reduce the risk to health, **ALWAYS** use appropriate dust extraction facilities when working with this tool.

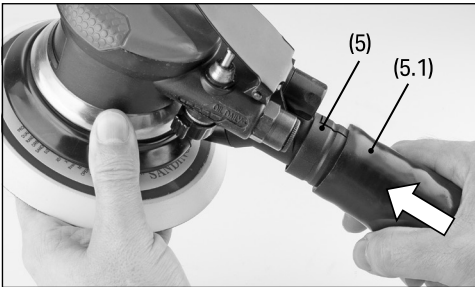


Fig. 4

- Remove the bung from the dust outlet (5).
- Firmly insert a suitable dust extraction hose (5.1) (not supplied) into the dust outlet (5) and attach the other end of the hose to an appropriate dust extractor.

### 7.1 Operating the Sander – Fig. 5



**WARNING!** The workpiece **MUST** be firmly secured in place before operation. **DO NOT** hold the workpiece by hand.

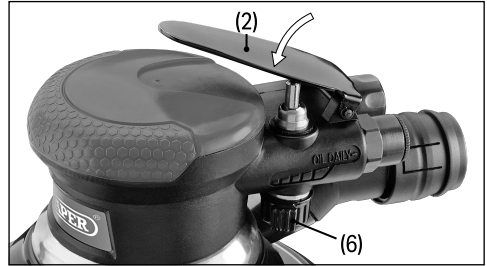


Fig. 5

1. Ensure the air line is securely connected and pressurised.
2. Place the tool against the workpiece and press the trigger (2) down to start the sander.

**Important:** Start the operation with the tool against the workpiece to prevent gouging upon first contact.

3. Release the trigger to slow down or stop the pad.
4. To alter the air flow and vary the speed of the sander, turn the speed control (6) during operation. Adjust as required.

**Important:** When operating the sander, use only the flat surface of the sanding sheet against the workpiece; **DO NOT** use the edges of the sanding sheet and backing pad.

### 7.2 Removing the Backing Pad – Fig. 6

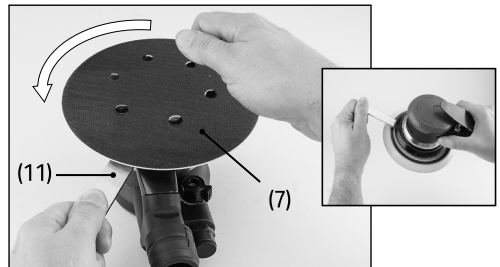


Fig. 6

- Insert and locate the spanner (11) onto the flat areas on the side of the spindle (8).
- Hold the spanner while rotating the pad (7) to remove.
- When re-assembling **DO NOT** over tighten the backing pad.
- To avoid damage or injury always ensure the spanner has been removed before reconnecting the air line or starting the sander.



 **WARNING! ALWAYS** ensure that the tool is disconnected from the air supply and that the air supply is switched off before attempting to adjust or maintain this product.

8.1 General Maintenance

- Disconnect the air line and remove the air line coupling or whip hose when storing the product.
- Wipe the sander clean and remove any obstructions from the air outlet (3) before storage.
- **Important:** Lubricate the mechanism by pouring a few drops of air tool oil into the air line coupling.
- ISO grade 22–32 (SAE grade 5W–15W) monograde oil should be used in this air tool. During use, the oil must be constantly supplied to the equipment to ensure complete lubrication and optimum performance.
- When not in use store in a dry clean place out of the reach of children.

8.2 Troubleshooting

Problem	Possible cause	Remedy
Tool not operating	Air pressure is too low.	Check that air line is connected securely and not damaged.
	Trigger mechanism malfunctioned.	Pour a little air tool oil into the air line inlet and squeeze the trigger several times.
Tool operates with reduced power	Air line is obstructed.	Switch off and detach the air line. Clean and remove any obstructions.
	Air pressure is too low.	Check pressure is set correctly and check for loose connections.
	Rotor vane seized	Pour lubricating oil into air inlet and operate trigger several times.
Spindle does not turn	Motor vane is broken.	Contact Draper Tools for advice.
Tool will not shut off	'O' ring at the throttle valve is broken or dislodged.	Replace the 'O' ring - Contact Draper Tools for advice.

## 9. Spares, Returns and Disposal

For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

## 10. Warranty

**6 months** from date of purchase.

Visit [drapertools.com/warranty](https://www.drapertools.com/warranty) for more information.

# 11. Explanation of Symbols



Read the instruction manual



Warning!



Wear face mask and safety glasses



Wear protective gloves



Wear ear defenders



Keep long hair tied back



Backing plate diameter (6")



No load speed



Air inlet



Min. hose size



Max. air pressure (bar)



Max. air pressure (psi)



Direction of rotation.



Average air consumption (L/min)



Average air consumption (cfm)



Product weight (bare)



European conformity



UK Conformity Assessed



Single value noise marking.  
(Maximum declared A-Weighted sound power level in decibels).

## Contact Details

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Please contact the Draper Tools Product Helpline for repair and servicing enquiries.