



# Ø58MM AIR MINI ANGLE GRINDER

MODEL NO: SA153

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear eye protection



Wear protective gloves



Wear a mask



Wear ear protection

## 1. SAFETY

- WARNING!** Ensure that Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.
- WARNING!** Disconnect from air supply before changing accessories or servicing.
- WARNING!** Always wear approved eye (or face) and hand protection when operating the grinder.
- WARNING!** Ensure correct air pressure is maintained and not exceeded. Recommended pressure 70-90psi.
- WARNING! DO NOT** grind any materials containing asbestos.
- Maintain the grinder in good condition (use an authorised service agent).
- Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- Use in a suitable work area. Keep area free from unrelated materials and ensure that there is adequate lighting.
- Before each use check abrasive disc for condition. If worn or damaged replace immediately.
- Ensure that the speed rating (rpm) of the disc is the same as, or greater than, the speed rating of the grinder.
- Ensure that there are no flammable or combustible materials near the work area.
- Use face, dust, or respiratory protection in accordance with COSHH regulations.
- Depending on the task, grinder noise level may exceed 98dB in which case wear safety ear defenders.
- Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain and/or tie back long hair.
- Wear appropriate protective clothing and keep hands and body clear of working parts.
- Maintain correct balance and footing. Ensure that the floor is not slippery and wear non-slip shoes.
- Keep children and unauthorised persons away from the work area.
- Check moving parts alignment on a regular basis.
- Ensure that the workpiece is secure before operating the grinder. Never hold a workpiece by hand.
- Check the workpiece to ensure there are no protruding screws, bolts, nuts etc.
- Avoid unintentional starting.
- Keep air hose away from heat, oil and sharp edges. Check air hose for wear before each use and ensure that all connections are secure.
- Prolonged exposure to vibration from this grinder poses a health risk. It is the owner's responsibility to correctly assess the potential hazard and issue guidelines for safe periods of use and offer suitable protective equipment.
- DO NOT** use the grinder for a task it is not designed to perform.
- DO NOT** operate grinder if any parts are damaged or missing as this may cause failure and/or personal injury.
- DO NOT** carry the grinder by the hose, or yank the hose from the air supply.
- DO NOT** force, or apply heavy pressure to, the grinder, let the tool do the work.
- DO NOT** place air line attachments close to your face and do not point them at other people or animals.
- DO NOT** operate grinder when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- DO NOT** use the grinder where there are flammable liquids, solids or gases, such as paint solvents and including waste wiping or cleaning rags etc.
- DO NOT** carry the grinder with your finger on the power lever.
- DO NOT** direct air from the air line at yourself or others.
- When not in use disconnect from air supply and store in a safe, dry, childproof location.

### **DANGER OF FIRE/EXPLOSION HAZARD**

- WARNING!** The grinding process can produce streams of sparks which are a potential source of ignition especially when grinding metal.
- DO NOT** use the grinder where there are flammable liquids, solids or gases.
- DO NOT** allow grinder sparks to make contact with the operator's clothing or any other fabric such as cleaning rags. Fabrics contaminated with inflammable materials such as petrol, oil, paint and solvents are a particular fire hazard.
- To reduce the risk of clothing catching fire the operator should wear wool or cotton outer garments treated with a fire retardant in preference to man-made fibres.

## 1.2. LEAD PAINT WARNING!

Paint once contained lead as a traditional ingredient. Contact with the dust from the removal of such paint is toxic and must therefore be avoided. The following action must be taken before using the grinder on a surface that you suspect may contain lead paint.

1. User must determine potential hazard relating to age of paint to be removed (modern paints do not have lead content).
2. DANGER! Keep all people and pets away from the working area. The following are particularly vulnerable to the effects of lead paint dust: Pregnant women, babies and children.
3. We recommend personal protection by using the following safety items:
  - a) Paint Spray Respirator (Sealey Model no.: SSP1605)
  - b) PE Coated Hooded Coverall (Sealey Model no.:SSP267-L, SSP267-XL)
  - c) Disposable Nitrile Gloves (Sealey Model no.: SSP55L, SSP55XL)
4. Take adequate measures to contain the paint dust, flakes and scrapings.
5. Continue to wear safety equipment as in (3) above and thoroughly clean all areas when work is complete. Ensure that paint waste is disposed of in sealed bags or containers according to local regulations.

## 2. INTRODUCTION

Lightweight mini housing design with textured finish. Ideal for work in confined areas. Features rear exhaust with baffle for reduced noise level and safety throttle lever to stop accidental operation. Suitable for professional workshop use. Supplied with grinding disc.

## 3. SPECIFICATION

Model no.: ..... SA153  
 Air Consumption: ..... 3cfm  
 Disc Size:..... Ø58mm  
 Free Speed: ..... 15000rpm  
 Inlet Size: ..... 1/4" BSP  
 Noise Power/Pressure: ..... 88/77dB(A)  
 Operating Pressure: ..... 90psi  
 Spindle Size: ..... 1/4" x 19 UNC  
 Vibration/Uncertainty: ..... 5.66/1.06m/s<sup>2</sup>

## 4. PREPARATION

### 4.1. AIR SUPPLY

- ❑ **WARNING!** Ensure the air supply is clean and does not exceed 90 psi while operating the die wrench. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage and/or personal injury.

4.1.1. Recommended hook-up procedure is shown in fig.1.

Ensure wrench air valve (or trigger) is in "off" position before connecting to the air supply.

4.1.2. You will require an air pressure of 90psi, and an air flow according to specification.

4.1.3. Drain the air tank daily. Water in the air line will damage the wrench.

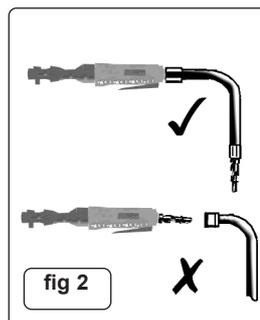
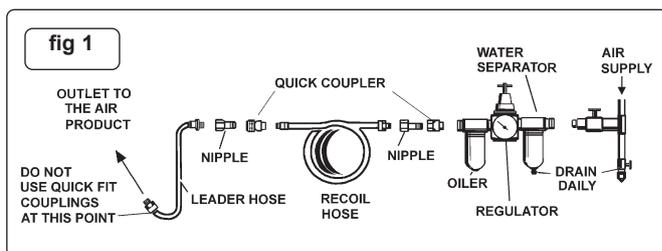
4.1.4. Clean air inlet filter weekly.

4.1.5. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum hose diameter should be 1/4" I.D. and fittings must have the same inside dimensions.

4.1.6. Keep hose away from heat, oil and sharp edges. Check hose for wear, and make certain that all connections are secure.

### 4.2. COUPLINGS.

4.2.1. Vibration may cause failure if a quick change coupling is connected directly to the wrench. To overcome this, connect a leader hose to the wrench. A quick change coupling may then be used to connect the leader hose to the air line recoil hose. figs.1 & 2.



## 5. OPERATION

- ❑ **WARNING!** Ensure that you read, understand and apply the safety instructions before use.

### 5.1. ASSEMBLY

5.1.1. To attach the grinding disc you will need the two spanners provided, one to hold the spindle and the other to loosen/tighten the flange nut.

5.1.2. To put on a grinding disc hold the spindle with one spanner and with the protruding side of the disc facing down toward the spindle, screw on the flange nut and tighten with the second spanner.

5.1.3. Connect air supply to grinder and push up the safety catch, then squeeze the control valve lever to check that the grinder is working correctly.

### 5.2. OPERATING

- ✗ **DO NOT** apply excessive pressure, let the grinder do the work for you. Start the grinder and bring the disc to the the work surface evenly and slowly. Move the grinder back and forth in overlapping areas. Remove the grinding disc from the work surface before stopping the grinder. Regularly check the condition of the disc and always change if worn, cracked or otherwise damaged.
- ✗ **DO NOT** run the grinder off the workpiece for extended periods as this will shorten the life of the bearings.
- ❑ **WARNING!** Use only discs with speed ratings equal to, or higher than, the speed rating of the grinder.

## 6. MAINTENANCE

- ❑ **WARNING!** Disconnect the grinder from air supply before changing the disc, servicing or performing maintenance. Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Lubricate the grinder daily with a few drops of good grade air tool oil, such as Sealey ATO/500 or ATO/1000, dripped into the air inlet before use or dispensed automatically through an air system oiler, such as Sealey model SA100L or SA2001/L.
- ✓ Clean the grinder after use and change the disc when worn or damaged.
- ✓ Loss of power or erratic action may be due to the following:
  - a) Excessive drain on the air supply. Moisture or restriction in the air line. Incorrect size or type of hose connectors. To remedy check the air supply and follow instructions in Section 4.
  - b) Grit or gum deposits in the grinder may also reduce performance. Flush the grinder with gum solvent oil or an equal mixture of SAE No 10 oil and kerosene. Allow to dry before use.
- ✓ If you continue to experience problems, contact your local Sealey service agent.
- ✓ When not in use, disconnect from air supply, clean grinder and store in a safe, dry, childproof location.

### **WARNING! – Risk of Hand Arm Vibration Injury.**

**This tool may cause Hand Arm Vibration Syndrome if its use is not managed adequately.**

This tool is subject to the vibration testing section of the Machinery Directive 2006/42/EC.

This tool is to be operated in accordance with these instructions.

**Measured vibration emission value (l) (a): . . . . . 5.66m/s<sup>2</sup>**

**Uncertainty value (k): . . . . . 1.06m/s<sup>2</sup>**

*Please note that the application of the tool to a sole specialist task may produce a different average vibration emission. We recommend that a specific evaluation of the vibration emission is conducted prior to commencing with a specialist task.*

A health and safety assessment by the user (or employer) will need to be carried out to determine the suitable duration of use for each tool.

**NB:** Stated Vibration Emission values are type-test values and are intended to be typical.

Whilst in use, the actual value will vary considerably from and depend on many factors.

Such factors include; the operator, the task and the inserted tool or consumable.

**NB:** ensure that the length of leader hoses is sufficient to allow unrestricted use, as this also helps to reduce vibration.

*The state of maintenance of the tool itself is also an important factor, a poorly maintained tool will also increase the risk of Hand Arm Vibration Syndrome.*

#### **Health surveillance.**

We recommend a programme of health surveillance to detect early symptoms of vibration injury so that management procedures can be modified accordingly.

#### **Personal protective equipment.**

We are not aware of any personal protective equipment (PPE) that provides protection against vibration injury that may result from the uncontrolled use of this tool. We recommend a sufficient supply of clothing (including gloves) to enable the operator to remain warm and dry and maintain good blood circulation in fingers etc. Please note that the most effective protection is prevention, please refer to the Correct Use and Maintenance section in these instructions. Guidance relating to the management of hand arm vibration can be found on the HSC website [www.hse.gov.uk](http://www.hse.gov.uk) - Hand-Arm Vibration at Work.



#### **ENVIRONMENT PROTECTION**

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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