

# SEALEY

## 100MM POWER BELT SANDER/LINISHER

MODEL NO: **SM100.V2**

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.



Refer to instruction manual



Wear eye protection



No reaching in



Wear a mask



Wear ear protection



Wear safety footwear

### 1. SAFETY

#### 1.1. ELECTRICAL SAFETY

- ☐ **WARNING!** It is the user's responsibility to check the following:

Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products. You may obtain an RCD by contacting your local Sealey stockist.

If the product is used in the course of business duties, it must be maintained in a safe condition and routinely PAT (Portable Appliance Test) tested.

Electrical safety information, it is important that the following information is read and understood.

Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.

Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.

**IMPORTANT:** Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating in these instructions.

- ✗ **DO NOT** pull or carry the appliance by the power cable.
- ✗ **DO NOT** pull the plug from the socket by the cable.
- ✗ **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.

This product is fitted with a BS1363/A 13 Amp 3 pin plug.

If the cable or plug is damaged during use, switch off the electricity supply and remove from use.

Ensure that repairs are carried out by a qualified electrician.

Replace a damaged plug with a BS1363/A 13 Amp 3 pin plug. If in doubt contact a qualified electrician.

a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.

b) Connect the BROWN live wire to the live terminal 'L'.

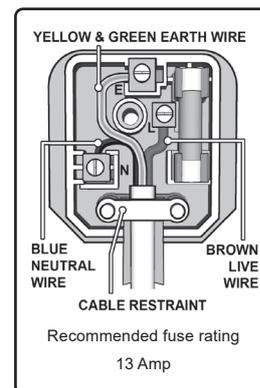
c) Connect the BLUE neutral wire to the neutral terminal 'N'.

Ensure that the cable outer sheath extends inside the cable restraint and that the restraint is tight.

Sealey recommend that repairs are carried out by a qualified electrician.

#### 1.2. GENERAL SAFETY

- ✓ Wear approved safety goggles, ear defenders, mask and safety shoes.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings, and other loose jewellery, and contain long hair.
- ✓ Use sander in a suitable work area, keep area clean, tidy and free from unrelated materials, and ensure adequate lighting.
- ✓ Keep children and visitors away from the work area.
- ✓ Maintain correct balance and footing. **DO NOT** over-reach and ensure the floor is not slippery. Wear non-slip shoes.
- ✗ **DO NOT** operate the sander when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✓ Disconnect the sander from the mains power before changing accessories, making adjustments, servicing or performing any maintenance.
- ✓ Read the manual before using the machine. Learn the machine's limitations and specific hazards to minimise the possibility of accidents and injury.
- ✓ Use common sense and exercise caution when using the machine.
- ✗ **DO NOT** use the machine outdoors or expose to damp or rain.
- ✗ **DO NOT** modify the machine or use it in any other way except the tasks it was designed for. Never use the machine exceeding the limits shown in the specification.
- ✓ Use machine in good light and clean conditions with the correct space around it as defined in the Installation section.
- ✓ Before starting the machine make sure that all safety guards are in their active positions and check their function.
- ✗ **DO NOT** use the machine when any safety device is suspended or removed. If any defect is noticed stop using the machine.
- ✓ Maintain the machine in top condition according to the Maintenance Section.
- ✓ Before using the machine check for damaged parts. Check for damage to, alignment and operation of parts. Any damaged guard or any other part should be properly repaired or replaced.
- ✓ Avoid unintentional starting, ensure the switch is in the off position before plugging in the mains plug. In the event of power failure, switch the machine off.
- ✓ Remove adjusting keys/spanners before using the machine. Tools or scrap pieces can be ejected at high speed.
- ✓ Only use recommended accessories.
- ✓ Secure the workpiece using clamps etc when practicable.



- ✓ Feed the workpiece against the direction of rotation of the belt. Feeding from the other direction will cause the workpiece to be thrown out at high speed.
  - ✗ **DO NOT** force the workpiece on the machine.
  - ✗ **DO NOT** over reach, loss of balance could result in falling onto the moving machine.
  - ✗ **DO NOT** stand on the machine.
  - ✗ **DO NOT** leave the machine until it has come to a complete stop or leave the machine running unattended.
  - ✓ Make the machine secure against accidental start up by untrained persons, children etc. by using locks.
  - ✓ Always use in well ventilated areas and provide for proper dust removal using a dust collection system.
- 1.3. OPERATIONAL SAFETY**
- ✗ **DO NOT** use machine until it is assembled and installed according to instructions.
  - ✓ Obtain training from a qualified person before using.
  - ✓ Use with correctly installed/operating guards in place.
  - ✓ Check belt for wear and tension and correct installation. If the belt is damaged or if it can not be tensioned properly, replace it.
  - ✓ Ensure belt is tracking properly.
  - ✓ Keep arms, hands and fingers away from abrasive surfaces.
  - ✓ Avoid awkward stance, operation and hand positions which could cause contact with the sanding surface.
  - ✗ **DO NOT** wear gloves or hold the workpiece with a rag.
  - ✗ **DO NOT** start the machine with the workpiece against the sanding surface.
  - ✗ **DO NOT** start the machine until all objects (tools, scrap pieces etc.) have been removed from the machine.
  - ✓ Maintain the minimum distance between the sanding surface and the workpiece rests and backstop.
  - ✗ **DO NOT** sand workpieces shorter than 18cm (7") and thinner than 0.8mm (1/32").
  - ✓ Properly support long or wide workpieces.
  - ✓ Disconnect machine from mains supply and clean table/work area before leaving the machine. Lock the switch in the off position to prevent unauthorised use.
  - ✓ Functional tests must be carried out before using the machine, including condition of belt, running speed and stop buttons.

## 2. INTRODUCTION

Suitable for metal and fabrication workshops. Robust construction designed for everyday use. Supplied with high quality abrasive belt. Graphite plate on the platen to reduce belt friction. Powerful 1500W 230V motor with IP54 protection. No-volt release switch fitted to aid safe operation. Bench or floor mounting (stand supplied).

## 3. SPECIFICATION

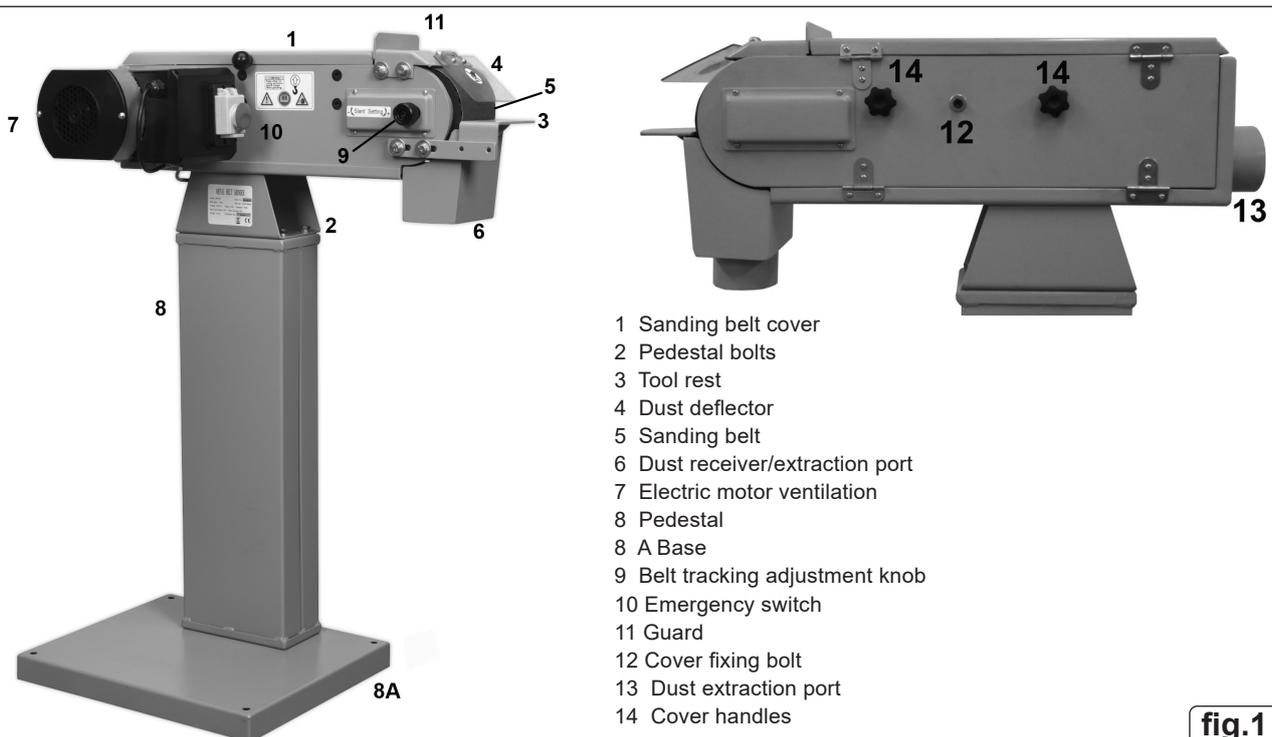
**MODEL NO** ..... **SM100.V2**  
 Belt size ..... 100 x 1220mm  
 Belt speed ..... 19m/s  
 Flat grinding surface ..... 100 x 280mm  
 Motor power ..... 1500W - 230V  
 No load speed ..... 2840rpm

### CONSUMABLES:

#### BELTS:

SB0012 ..... SM100 x 1220mm 80Grit  
 SB0013 ..... SM100 x 1200mm 100Grit

## 4. FEATURES



- 1 Sanding belt cover
- 2 Pedestal bolts
- 3 Tool rest
- 4 Dust deflector
- 5 Sanding belt
- 6 Dust receiver/extraction port
- 7 Electric motor ventilation
- 8 Pedestal
- 8 A Base
- 9 Belt tracking adjustment knob
- 10 Emergency switch
- 11 Guard
- 12 Cover fixing bolt
- 13 Dust extraction port
- 14 Cover handles

**fig.1**

## 5. ASSEMBLY

Refer to parts diagram

- 5.1. Bolt pedestal to base.
- 5.2. With assistance from at least 2 other persons lift the machine onto the pedestal (if it is being used) and bolt into position, fig 1.2.
- 5.3. Attach dust receiver, fig.1.6. with single screw.
- 5.4. Attach tool rest, fig.1.3, refer to section 7.3 for adjustment.
- 5.5. Attach guard, fig.1.11. Ensure guard bolts and cover fixing bolt, fig.1.12 are tight before use.

## 6. INSTALLATION

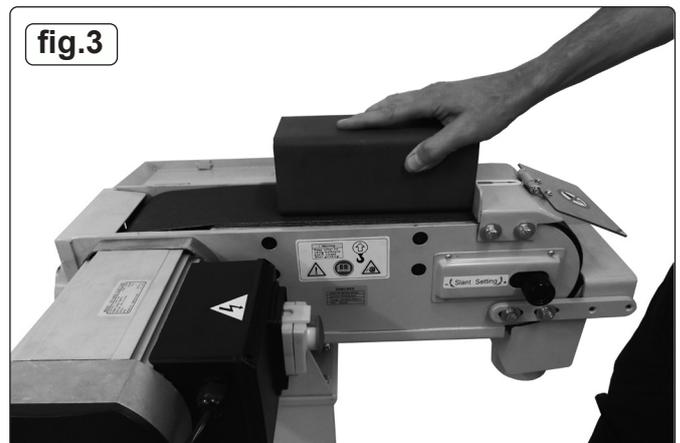
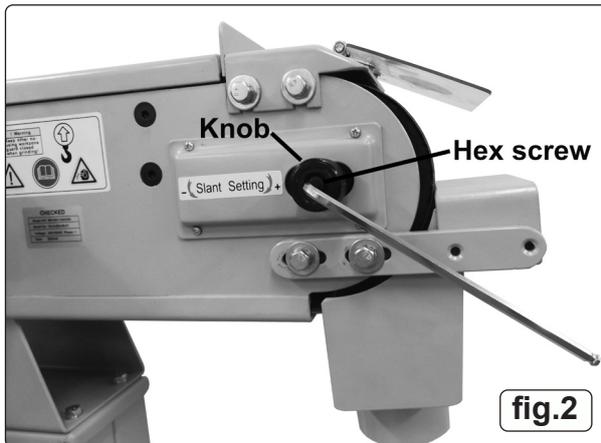
- 6.1. Site machine in an area with good ventilation and adequate lighting.
- 6.2. The machine should be fixed to a floor, or a bench, strong enough to take the weight of the machine, with 4 M10 bolts.
- 6.3. Minimum installation distance is 2m in front, 1.5m behind and 1m at each side of the machine.
- 6.4. The machine must be connected to a dust extraction system (not supplied).

## 7. OPERATION

- **WARNING!** Functional tests must be carried out before using the machine, including condition of belt, running speed and stop buttons.

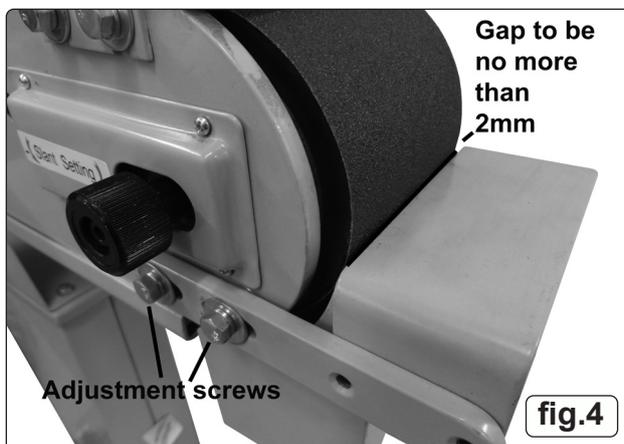
### 7.1. ADJUST BELT TRACKING refer to fig.2

- 7.1.1. Loosen hex screw and twist knob clockwise or anticlockwise to adjust the sanding belt's tracking. Re-tighten the hex screw.



### 7.2. FLAT TABLE LINISHING (TOP TABLE) Refer to fig.3

- 7.2.1. Hold the workpiece parallel to the belt, place against the guard and grip securely.



### 7.3. CURVED SANDING WHEEL Refer to fig.4

- 7.3.1. Adjust tool rest by loosening the 2 adjustment screws, so that the gap between the belt and the tool rest is no more than 2mm. Re-tighten screws. Grip workpiece securely. Ensure workpiece is kept square to the belt.

### 7.4. NO VOLT RELEASE SWITCH refer to fig's 5 & 6

- 7.4.1. Lift the clip on top of the switch housing, to let down the door to access the On/Off switch if the stop button has been used to turn the machine off.

fig.5

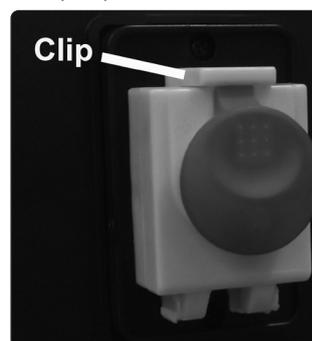


fig.6

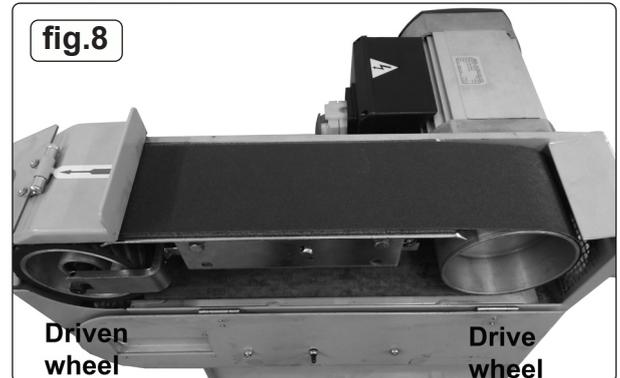
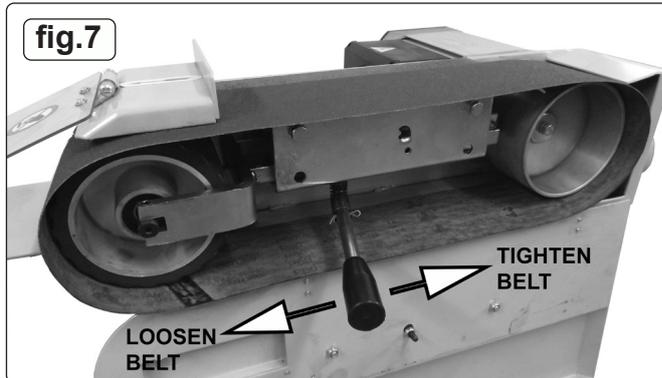


## 8. MAINTENANCE

❑ **WARNING!** Ensure machine is switched off and disconnected from the mains supply, before carrying out any maintenance.

### 8.1. CHANGING THE BELT Refer to fig.7

- 8.1.1. Remove dust receiver, fig.1.6.
- 8.1.2. Loosen cover fixing bolt, fig.1.12, and hinge open cover.
- 8.1.3. Pull lever fully forward to loosen belt tension, fig.2.
- 8.1.4. Slide off used belt and slide on new belt, observing the direction of travel.



- 8.1.5. Align the belt so that it is perpendicular with the drive wheel and the driven wheel, see fig.8.

- 8.1.6. Push the lever back to re-tighten the belt.
- 8.1.7. Close the cover and secure the cover fixing bolt, fig.1.12.
- 8.1.8. Refit the dust receiver, fig.1.6.

8.2. Check tightness of all fixings before use, including work rests.

### 8.3. CLEANING

- 8.3.1. Keep machine and work area clean at all times, especially the motor air inlets.

## 9. TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Motor will not run	1. Defective On/Off switch 2. Motor unserviceable	1. Replace switch 2. Replace motor - professional repair only
Machine slows down when sanding	1. Drive belt too tight 2. Applying too much pressure to workpiece, onto belt	1. Decrease belt tension 2. Ease up on pressure
Sanding belt runs off the pulleys	1. Belt not tracking properly	1. Adjust belt tracking. See section 7.1.



### WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



### 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. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on [technical@sealey.co.uk](mailto:technical@sealey.co.uk) or 01284 757505.

**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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