



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.

Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility please use it or alternatively use a recognised recycling agent. This will allow the recycling of raw materials and help protect the environment.

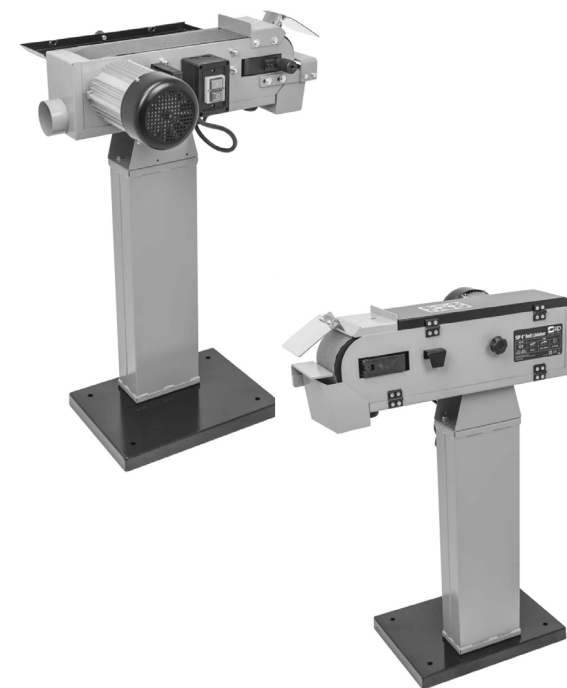
SIP Industrial Products Limited  
Gelders Hall Road  
Shepshed  
Loughborough  
Leicestershire  
LE12 9NH  
United Kingdom

FOR HELP OR ADVICE ON THIS  
PRODUCT PLEASE CONTACT YOUR  
DISTRIBUTOR, OR SIP DIRECTLY ON:  
TEL: 01509 500400  
EMAIL: [sales@sip-group.com](mailto:sales@sip-group.com) or  
[customerservice@sip-group.com](mailto:customerservice@sip-group.com)  
[www.sip-group.com](http://www.sip-group.com)

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contact your distributor, or SIP  
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or  
[customerservice@sip-group.com](mailto:customerservice@sip-group.com)  
[www.sip-group.com](http://www.sip-group.com)



## 4" Pedestal Belt Linisher



SIP Code 01960

We  
SIP (Machinery Europe) Ltd  
ASM Chartered Accountants  
First Floor Block One  
Quayside Business Park  
Dundalk  
County Louth  
Republic of Ireland

As the manufacturers authorised representative within in the EC declare that:

SIP 4" Belt Linisher - SIP Code 01960

**Conforms to the requirements of the following directive(s), as indicated:-**

|                                          |                     |
|------------------------------------------|---------------------|
| 2006/42/EC                               | Machinery Directive |
| 2006/95/EC                               | Low Voltage         |
| 2014/30/EU                               | Directive EMC       |
| 2011/65/EU & (EU)2015/863 RoHS Directive | Directive           |

**And the following harmonised standard(s)**

EN55014-1:2017  
EN 55014-2:2015  
EN61000-3-2:2014  
EN 61000-3-3:2013



Signed: .....

Mr P. Ippaso - Director - SIP (Industrial Products) Ltd  
Date: 01/02/2023.



## UK - DECLARATION OF CONFORMITY

We  
SIP (Industrial Products) Ltd  
Gelders Hall Road  
Shepshed  
Loughborough  
Leicestershire  
LE12 9NH England

As the manufacturer within the UK, England, Scotland &  
Wales, declare that the

SIP 4" Belt Linisher - SIP Code 01960

**Conforms to the requirements of the following directive(s), as indicated.**

Supply of Machinery (Safety) Regulations 2008  
Electrical Equipment (Safety) Regulations 2016 Electromagnetic  
Compatibility Regulations 2016  
The Restriction of the Use of Certain Hazardous Substances in  
Electrical and Electronic Equipment Regulations 2012

**And the relevant harmonised standard(s), including**

BS EN 55014-1:2017  
BS EN 55014-2:2015  
BS EN 61000-3-2:2014  
BS EN 61000-3-3:2013

Signed:  .....

Mr P. Ippaso - Director - SIP (Industrial Products)  
Ltd Date: 01/02/2023

**UK  
CA**

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## SAFETY SYMBOLS USED THROUGHOUT THIS MANUAL



*Danger / Caution:* Indicates risk of personal injury and/or the possibility of damage.



*Warning:* Risk of electrical injury or damage!



*Note:* Supplementary information.

## SAFETY INSTRUCTIONS



**IMPORTANT:** Please read the following instructions carefully, failure to do so could lead to serious personal injury and / or damage to the Linisher.

When using your linisher, basic safety precautions should always be followed to reduce the risk of fire, electric shock, personal injury and / or damage to the belt disc sander. Read all these instructions before operating the belt linisher and save this user manual for future reference.

SIP recommends that this belt linisher should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us and we will be more than happy to advise you.

**KNOW YOUR LINISHER:** Read and understand the owner's manual and labels affixed to the belt linisher. Learn its applications and limitations, as well as the potential hazards specific to it.

**DO NOT USE THE LINISHER IN DANGEROUS ENVIRONMENTS:** Do not use your belt linisher in damp or wet locations, or expose it to rain. Always provide adequate space around the belt disc sander.

**KEEP CHILDREN AND UNTRAINED PERSONNEL AWAY FROM THE WORK AREA:** All visitors should be kept at a safe distance from the work area.

## NOTES

## PARTS LIST

| PART NO. | DESCRIPTION              | PART NO. | DESCRIPTION           |
|----------|--------------------------|----------|-----------------------|
| 1        | Hex bolt M8X16           | 43       | Washer 5              |
| 2        | Washer 8                 | 44       | Rear shield           |
| 3        | Stand base               | 45       | Washer 6              |
| 4        | Square tube              | 46       | Hex bolt M6X12        |
| 5        | Washer 8                 | 47       | Hex nut M5            |
| 6        | Hex bolt M8X16           | 48       | Washer 5              |
| 7        | Belt 1220X100            | 49       | Bracket               |
| 8        | Pin 6X35                 | 50       | Eye shield            |
| 9        | Set screw M5X6           | 51       | Table                 |
| 10       | Guide belt rest          | 52       | Washer 6              |
| 11       | Spring                   | 53       | Hex bolt M6X12        |
| 12       | Contact wheel            | 54       | Table set plate       |
| 13       | Circlip for shafts 15    | 55       | Hex bolt M6X16        |
| 14       | Bearing 6202             | 56       | Big washer6           |
| 15       | Guide pulley spindle     | 57       | Screw M5X10           |
| 16       | Circlip for bores 35     | 58       | Motor                 |
| 17       | Belt tracking adjustment | 59       | Washer 6              |
| 18       | Set screw M6X6           | 60       | Spring washer6        |
| 19       | Bevel block              | 61       | Hex bolt M6X25        |
| 20       | Screw M5X20              | 62       | Circlip for shafts 19 |
| 21       | Hex bolt M8x25           | 63       | Drive wheel           |
| 22       | Spring washer 8          | 64       | Big washer 8          |
| 23       | Washer 8                 | 65       | Spring washer 6       |
| 24       | Sliding block            | 66       | Hex bolt M8X25        |
| 25       | Support plate            | 67       | Hand ball             |
| 26       | Washer 8                 | 68       | Hex bolt M6X12        |
| 27       | Nut M8                   | 69       | Active cover          |
| 28       | Plumbaginous board       | 70       | Hex locking nut M5    |
| 29       | Bolt M5X16               | 71       | Washer 5              |
| 30       | HANDLE                   | 72       | Gate plate8           |
| 31       | Spring                   | 73       | Hinge                 |
| 32       | Press pole               | 74       | Screw M5X10           |
| 33       | Circlip for bores 24     | 75       | Locking knob          |
| 34       | Bearing 61901            | 76       | Screw M4X8            |
| 35       | Lock knob                | 77       | Washer 4              |
| 36       | Big washer 8             | 78       | Hex nut M4            |
| 37       | Spark trap               | 79       | Key plate             |
| 38       | Hex nut M4x10            | 80       | Screw M4x16           |
| 39       | Switch(DZ06)             | 81       | Upper box             |
| 40       | Screw M5X16              | 82       | Lower box             |
| 41       | Body                     | 83       | Cable gland           |
| 42       | Screw M5X12              | 84       | Plug                  |

## SAFETY INSTRUCTIONS...cont

**STAY ALERT:** Always watch what you are doing and use common sense. **DISCONNECT THE LINISHER FROM THE MAINS SUPPLY:** When not in use.

**DO NOT ABUSE THE MAINS LEAD:** Never pull the mains lead it to remove the plug from the mains socket. Keep the mains lead away from heat, oil and sharp edges. If the mains lead is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid unwanted hazards.

**HAVE YOUR LINISHER REPAIRED BY A QUALIFIED PERSON:** The belt disc linisher is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

- **DANGER!** Check that the linisher is in sound condition and good working order. Take immediate action to repair or replace damaged parts.
- **USE RECOMMENDED PARTS ONLY** - Unapproved parts may be dangerous and will invalidate the warranty.

- **WARNING!** Only operate on a level and stable surface.

- **WARNING!** Do not allow untrained persons to operate the machine and do not operate the machine without all covers etc. correctly fitted.

- **WARNING! RISK OF ELECTRIC SHOCK.** Do not expose the linisher to water spray, rain, dripping water or moisture of any kind.

Do not move or handle the machine when it is running.

- Do not leave the machine unattended when in use. Switch the machine off and unplug from the mains supply before leaving the work area.

Do not allow children or animals near the linisher, particularly when in use.

- Ensure that the linisher is correctly turned off when not in use and store in a safe, dry area, out of reach of children.

Do not unplug the linisher to switch it off - always use the on/off switch.

- **ALWAYS** locate linisher on a stable and level surface.

- Never stand on the belt linisher.

- **DO NOT** dismantle or tamper with the belt linisher, as this may be dangerous and will invalidate the warranty.

Always ensure that the linisher is turned off and that the mains lead is removed from the supply during all cleaning and maintenance procedures, and when changing the tracking or changing the belt.

**WARNING: Risk of Electric Shock!**

Use only the electrical power (voltage and frequency) specified on the model plate

- of the linisher. If in doubt contact the manufacturer.

Use only a three-prong, grounded outlet and where required.

- **ALWAYS** unplug the linisher when not in use.
- Always wear approved eye protection.
- Always wear respiratory protection.

•

## SAFETY INSTRUCTIONS....cont

- it is advisable to ensure the operator as well as those in the area wear ear protection, particularly during extended periods of use.
- Never wear gloves, neck-ties, jewellery or loose clothing, and always contain long hair during operation.
- Support the work-piece with the mitre gauge, backstop or worktable.
- Maintain 1/16" maximum distance between table and abrasive belt.
- Avoid kickback by sanding in accordance with the directional arrows.
- Always mount the belt linisher securely on a firm level surface.
- Do not expose the linisher to rain or moisture.
- Always disconnect the linisher from the mains supply before making repairs or adjustments.
- Do not move or handle the machine when it is running.  
Never reach over the working area during operation.
- If a problem with the belt disc sander is experienced, or if the mains lead or plug become damaged, contact your distributor for repair.



When using the Linisher always ensure the operator as well as those in the area wear eye protection.



Metal Removal operations will cause dust to become airborne with the potential to be highly toxic; always wear a face mask during these operations, as well as ensuring the area is well ventilated. It is also highly recommended to use a dust collector to reduce airborne particles.

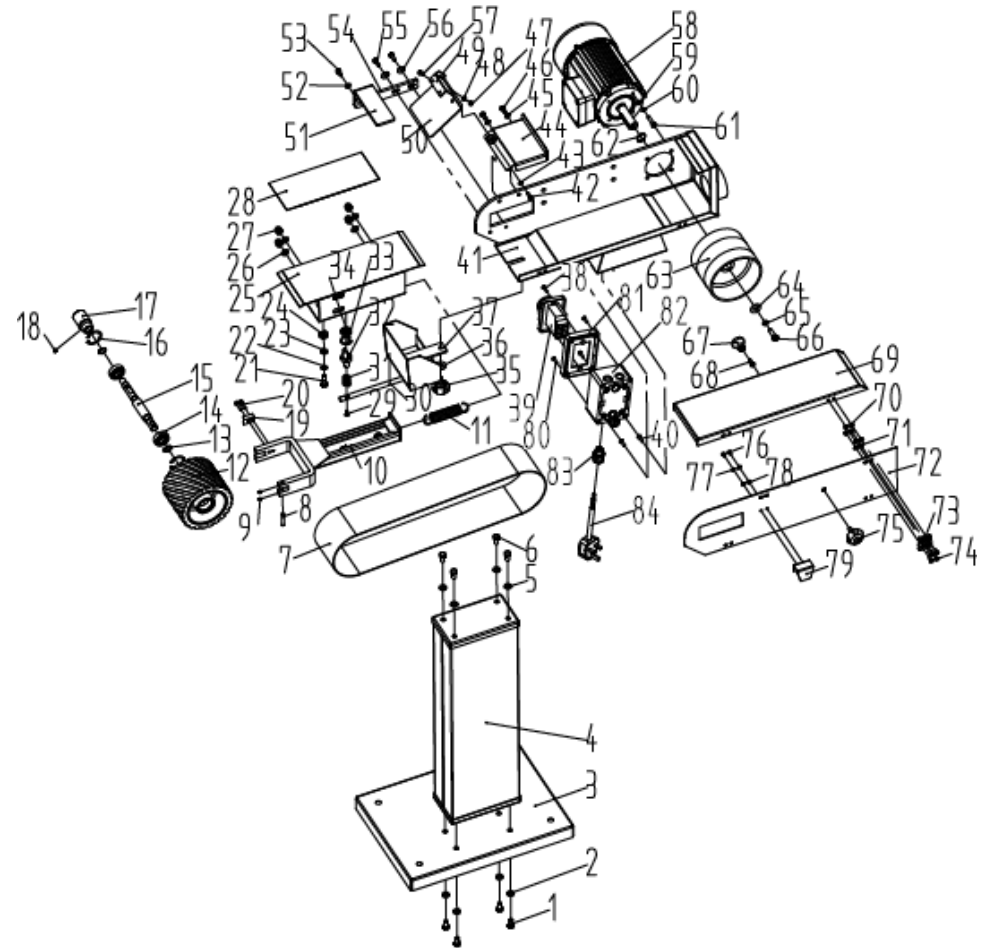


When using this Linisher, it is advisable to ensure the operator as well as those in the area wear ear protection, particularly during extended periods of use.



**CAUTION:** The warnings and cautions mentioned in this user manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied.

## EXPLODED DRAWING



## TROUBLESHOOTING

| Problem                            | Possible cause                                                                                                                                                                                                                             | Suggested corrective action                                                                                                                                                                                                                            |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor will not run.                | <ol style="list-style-type: none"> <li>1. Defective or broken ON/OFF switch.</li> <li>2. Defective or damaged switch relay.</li> <li>3. Defective or damaged switch cord.</li> <li>4. Burned out motor.</li> <li>5. Blown fuse.</li> </ol> | <ol style="list-style-type: none"> <li>1-3. Replace all broken or defective parts before using the liner.</li> <li>4. Contact supplier for repair.</li> <li>5. Replace fuse. Turn OFF other appliances and power tools on the same circuit.</li> </ol> |
| Machine slows down while sanding.  | <ol style="list-style-type: none"> <li>1. Operator applying too much pressure to work piece.</li> <li>2. Dirt on wheels.</li> <li>3. Worn or stretched belt.</li> </ol>                                                                    | <ol style="list-style-type: none"> <li>1. Use less pressure in applying work piece to sanding surface.</li> <li>2. Clean wheels.</li> <li>3. Replace pulley belt.</li> </ol>                                                                           |
| Motor does not develop full speed. | <ol style="list-style-type: none"> <li>1. Power line overloaded with lights, other tools, etc.</li> <li>2. Long/wrong extension lead being used.</li> <li>3. Incorrect fuses or circuit breakers in power line</li> </ol>                  | <ol style="list-style-type: none"> <li>1. Reduce the load on power line.</li> <li>2. Replace with correct extension lead.</li> <li>3. Install correct fuses or circuit breaker.</li> </ol>                                                             |
| Abrasive belt runs off pulleys.    | <ol style="list-style-type: none"> <li>1. Not tracking properly.</li> </ol>                                                                                                                                                                | <ol style="list-style-type: none"> <li>1. Adjust tracking (see pg15 tracking the belt).</li> </ol>                                                                                                                                                     |
| Motor overheats.                   | <ol style="list-style-type: none"> <li>1. Motor overload.</li> </ol>                                                                                                                                                                       | <ol style="list-style-type: none"> <li>1. Reduce motor load. Allow to cool off before restarting.</li> </ol>                                                                                                                                           |
| Abrasive belt keeps tearing        | <ol style="list-style-type: none"> <li>1. Belt is running in the wrong direction</li> </ol>                                                                                                                                                | <ol style="list-style-type: none"> <li>1. The abrasive belt should be running in the same direction of rotation label.</li> </ol>                                                                                                                      |
| Machine excessively vibrates       | <ol style="list-style-type: none"> <li>1. Stand on uneven floor</li> <li>2. Motor mounts are loose</li> <li>3. Tension spring is worn or broken</li> </ol>                                                                                 | <ol style="list-style-type: none"> <li>1. Adjust base so that it rests evenly on the floor</li> <li>2. Tighten motor mount bolts.</li> <li>3. Replace spring</li> </ol>                                                                                |



**Note:** Only use original spare parts, the use of non original parts is dangerous and will void your warranty.

## ELECTRICAL CONNECTION



**WARNING:** Read these electrical safety instructions thoroughly before connecting the product to the mains supply.

Connect the mains lead to a standard, 230 Volt (50Hz) electrical supply through an approved 13 amp plug, or a suitably fused isolator switch.

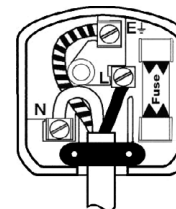
If the plug has to be changed because it is not suitable for your socket, or because of damage, it must be removed and a replacement fitted, following the wiring instructions shown below. The old plug must be discarded safely, as insertion into a power socket could cause an electrical hazard.



**WARNING:** The wires in the power cable of this product are coloured in accordance with the following code:  
Blue = neutral / Brown = live / Yellow and Green = earth

If the colours of the wires in the power cable do not agree with the markings on the plug:

- The BLUE wire must be connected to the terminal which is marked N or coloured black.
- The BROWN wire must be connected to the terminal which is marked L or coloured red.
- The YELLOW and GREEN wire must be connected to the terminal which is marked E or  or coloured green.



We strongly recommend that this machine is connected to the mains supply through a Residual Current Device (RCD).

If you are not sure, consult a qualified electrician. DO NOT try to do any repairs.

## GUARANTEE

### Guarantee:

This SIP linisher is covered by a 24 month parts and labour warranty, covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the linisher outside the scope of this manual - any claims deemed to be outside the scope of the warranty may be subject to charges including, but not limited to parts, labour and carriage costs.

Consumable items such as fuses, graphite layers, abrasive belts etc. are not covered by the warranty.

In the unlikely event of warranty claims, contact your distributor as soon as possible. Proof of purchase will be required before any warranty can be honoured.



*Note: Proof of purchase will be required before any warranty can be honoured.*

## TECHNICAL SPECIFICATIONS

|                                                       |                               |
|-------------------------------------------------------|-------------------------------|
| <b>Model</b>                                          | <b>01960 4" Belt Linisher</b> |
| <b>Supply</b>                                         | 230v ~ 50Hz 13A               |
| <b>Motor Power - kW</b>                               | 1.5                           |
| <b>Contact Wheel - mm</b>                             | 127Ø x 100                    |
| <b>Speed - rpm</b>                                    | 2860                          |
| <b>Flat Linishing Area - mm</b>                       | 280 x 100                     |
| <b>Belt Size Belt Speed (Linear Velocity) - m/sec</b> | 19                            |
| <b>Belt Size - mm</b>                                 | 1220 x 100                    |
| <b>Flat Working Height (Floor Mounted) - mm</b>       | 860                           |
| <b>Noise - No-Load Db (A)</b>                         | 94.5                          |
| <b>Noise - Load Db (A)</b>                            | 103                           |
| <b>Vibration</b>                                      | 2.8m/s <sup>2</sup>           |
| <b>Weight - kG</b>                                    | 45GW / 40NW                   |
| <b>Product Dimensions - H x L x D mm</b>              | 900 x 365 x 705               |
| <b>Packaged Dimensions - H x L x D mm</b>             | 750 x 400 x 330               |

## MAINTENANCE



*Slide the belt off to remove*



*Note: For your safety, turn switch OFF and remove the mains lead from the electrical outlet before adjusting or performing maintenance on your Linisher.*



*Note: Use only the stated sanding belts for the specific machine.*

## MAINTENANCE

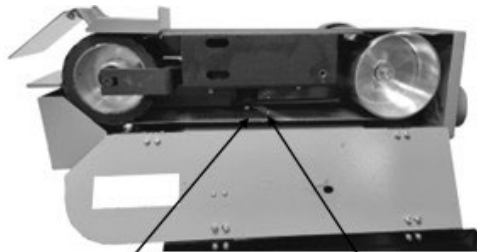
Regular inspection and cleaning of is vital for optimal running of the machine. Remove any swarf that may be in the machine to stop build-up of debris, as this can potentially clog the machine and alter the grinding process and cause an uneven surface.

The motor must have sufficient ventilation to avoid overheating, and also must be kept clear of debris, therefore it is recommended to clear any material before and after use.

The spark trap emptied after use.

### CHANGING THE BELT

1. Switch off the machine.
2. Ensure the belt is at a complete standstill.
3. Remove the spark trap.
4. Open the side cover by removing the retaining knob.
5. Slacken the belt by moving the belt tension release lever forwards.
6. Slide off and replace the belt. Note the correct direction travel for the belt.
7. Tighten the belt by moving the belt tension release lever backwards.
8. Close side cover and remount spark trap.

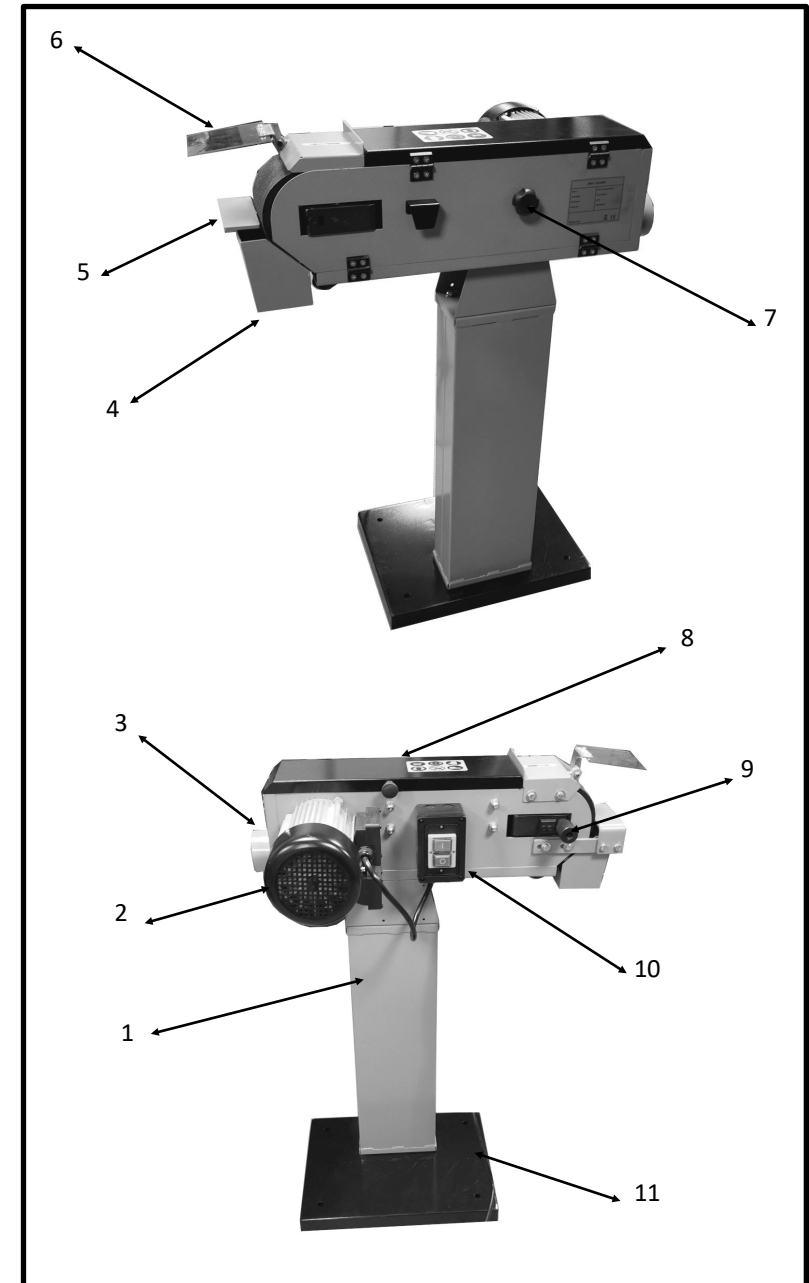


*Belt Tension Lever Closed -  
Pull To Slacken*



*Belt Tension Lever Open -  
Push To Close*

## GETTING TO KNOW YOUR LINISHER



## GETTING TO KNOW YOUR LINISHER...cont

| Item No. | Description                          |
|----------|--------------------------------------|
| 1        | Pedestal                             |
| 2        | Motor                                |
| 3        | Dust Extraction Port                 |
| 4        | Spark Trap                           |
| 5        | Front Work Support                   |
| 6        | Eye Shield                           |
| 7        | Side Panel Knob                      |
| 8        | Belt Guard                           |
| 9        | Belt Tracking Adjuster               |
| 10       | On / Off (No Voltage Release) Switch |
| 11       | Base                                 |

## CONTENTS & ACCESSORIES

- Linisher Head
- Linisher Stand
- User Manual
- Abrasive Belt
- 2 x Hex Keys
- Spark Trap
- 8 x M8 Bolts
- 8 x Washers
- 4 x M8 Nuts



*Note: If any of the items are missing, contact your distributor immediately.*

## OPERATING INSTRUCTIONS

### CONTACT GRINDING

When grinding against the contact wheel, ensure that the belt guard is closed. The operator faces the contact wheel and holds the material to work up with both hands. Hands must be placed away from the place to be grinded, as the material will be warm during the operation. The material is pushed against the belt, resting on the grinding support if necessary. The material is turned and grinded on the required surfaces.

### SURFACE GRINDING

The operator faces the open belt guard, platen top, during surface grinding. The material is held with both hands and is pushed hard against the top work support the grinding function under the belt has to be clean for effective grinding to occur.



*Note: Always grind on the abrasive side of the abrasive belt. Grinding on the left (upward) side of the linishing belt could cause the work piece to jump or kickback.*



*Note: The edge of the front work support must be positioned a maximum of 1.6 mm from the abrasive belt to avoid trapping the work piece or fingers between the support and abrasive belt.*



*Note: To avoid injury, turn switch OFF and disconnect the plug from the power source before removing and installing sanding belt.*



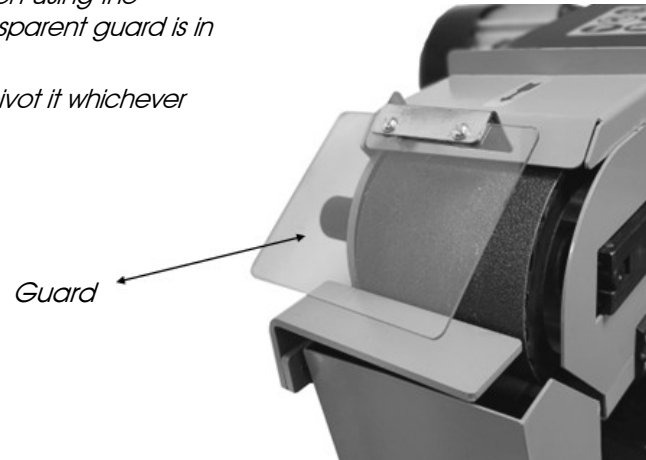
*Note: This belt linisher is designed only for grinding operations involving metal and metal derived products. It is not suitable for use with any type of wood - your warranty will be void if the linisher is used for this purpose.*

## ADJUSTMENTS

### USE THE TRANSPARENT EYE GUARD

To ensure further safety when using the finisher, make sure the transparent guard is in place when in operation.

To use the guard, simply pivot it whichever position is suitable.

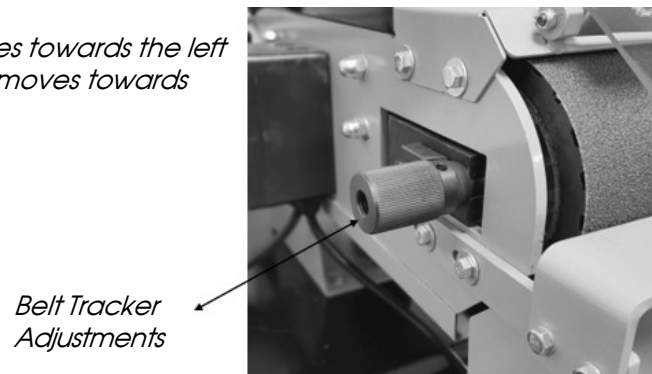


### TRACKING THE BELT

When first starting the machine, the belt may not run centrally on the contact wheel.

This is corrected by turning the tracking adjuster.

Clockwise - belt moves towards the left  
Anti-Clockwise - belt moves towards the right.



## ASSEMBLY INSTRUCTIONS

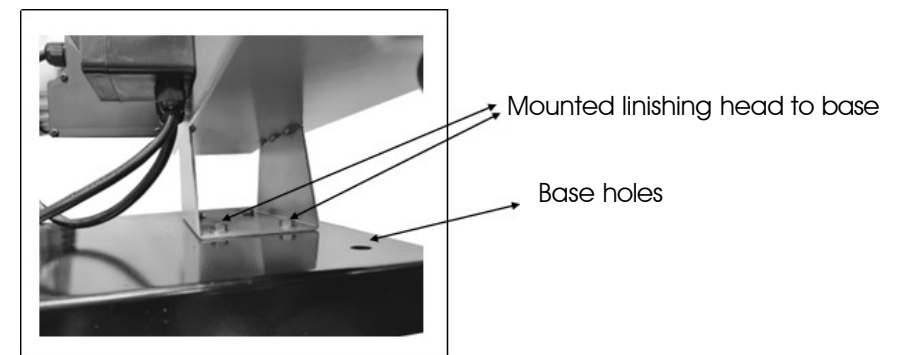
The machine should be placed on a firm level surface.  
The finisher can be assembled in 2 configurations:-

1. Bench Mounted
2. Floor Mounted.



### BENCH MOUNTING

Align the finishing head with the base plate and secure in place using the 4 nuts & bolts. Fasten securely. Mount the whole assembly to the workbench via the 4 base holes with suitable fixings.

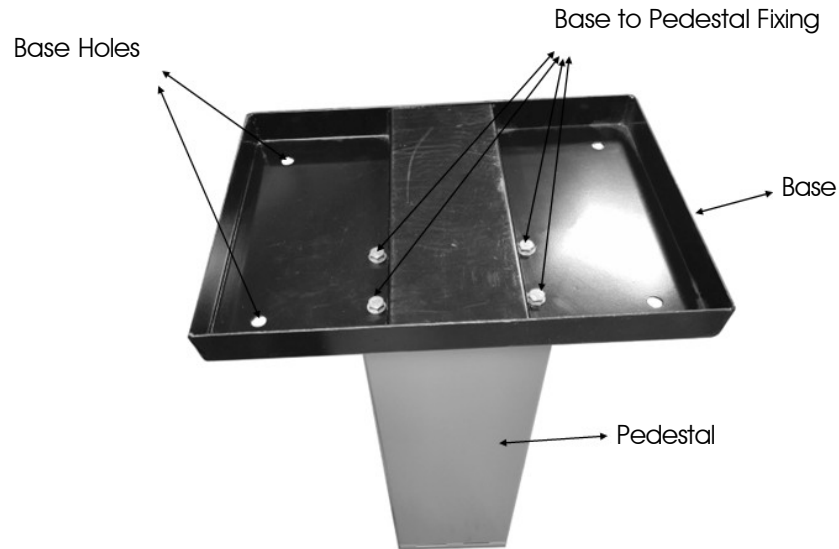


*Note:* The belt worktable should be used to support work-pieces in all grinding operations except for inside curve applications.

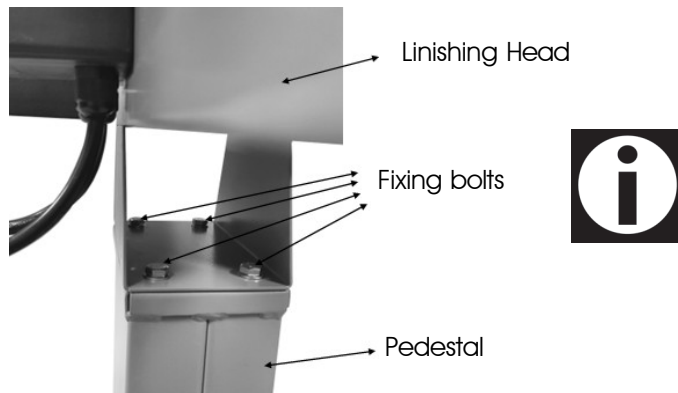
## ASSEMBLY INSTRUCTIONS...cont

### FLOOR MOUNTING

Align the base with the pedestal and secure using the bolts provided.  
Tighten Securely.



Stand-up the base and pedestal assembly.  
Align the linishing head with the pedestal and secure in place using the bolts provided.  
Secure to the floor via the base holes using suitable fixings.



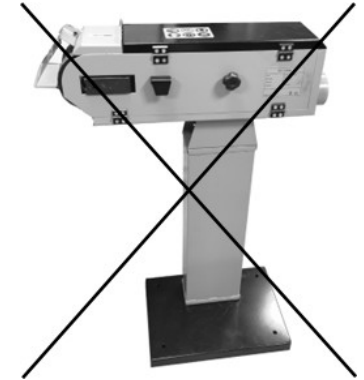
## ASSEMBLY INSTRUCTIONS ...cont

### LINISHING HEAD ASSEMBLY

Ensure that the linishing head is fitted the correct way around for stability and safety.



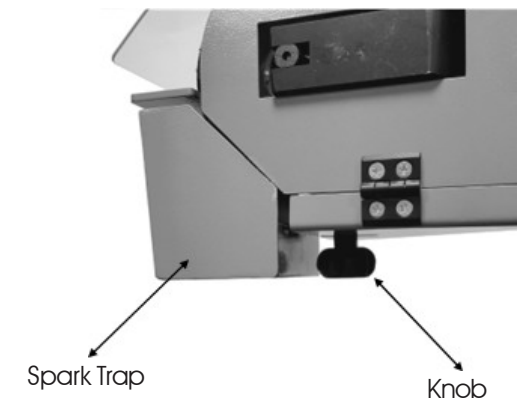
*correct assembly*



*Incorrect Assembly*

### FITTING THE SPARK TRAP

Slide the spark trap into cut-out slot on the linishing head.  
Use the knob to hold it in place.



*Note: It is extremely important to attach a dust bag (not supplied) or a metal dust extractor (SIP Code 01996) to the machine before any grinding operations are carried out. We also recommend applicable and suitable PPE.*