

## Belt Sander

### METHOD OF OPERATION

A piece of metal is held by the operator against an abrasive belt, rotated by a motor, to finish or to knock off burrs (sharp slivers of metal left behind by cutting)

### MACHINE HAZARDS

- Flying chips, sparks, and other debris regularly exit tool at high speeds and can cause irritation, burns, respiratory distress, and severe eye injury.
- Caught-in hazards that can cause crushing injuries and amputations.
- Sparks and heat hazards that can cause abrasions and burns.
- Flying particles that can cause impact injuries.
- Dust can cause respiratory distress.
- Crushed fingers or hands
- Amputations
- Blindness

### PPE/Safety Measures

Safety Glasses AND Faceshield <b>MUST</b> be worn	All Rings, Jewelry, bracelets, and watches must be removed
Closed toed shoes that cover the entire foot	Long and loose hair must be contained and tied away from face
Hearing protection must be worn	Long sleeves must be rolled up past elbows.

### Guards and Devices

**Belt Guard:** Shields 2/3 of the belt so that only the part of the belt behind the work rest is exposed. Make sure the belt guard is intact and properly closed.

**Work Rest:** The work rest should always be adjusted so that it is no further than 1/8" from the belt This minimizes the risk of the work piece getting sucked down into the machine and causing injury to the user or damage to the tool

### Operational Notes

\*Always check the sander for damage to the machine or the wheel before using. Alert a staff member if you detect any damage, and do not use the equipment until it has been properly repaired.

\*Check moving parts and alignment. Replace or repair any damaged parts.

\* Ensure work rest is positioned no more than 1/8" away from belt.

\* **ALWAYS** Remove power to grinder before performing any maintenance.

## Sequence of Operation

### BREAKING A SHARP CORNER

- 1.) Stand to the side of the Sander prior to start up.
- 2.) Turn on tool and allow belt to gain maximum speed before work begins.
- 3.) Bring work piece with contact with belt at approximately 45 degrees, and lightly press it into the rotating belt.
- 4.) Slightly rotate the workpiece to the left and right to break the corner.
- 5.) Turn the Belt Sander off when done.

### SMOOTHING A ROUGH FACE

- 1.) Stand to the side of the Sander prior to start up.
- 2.) Turn on tool and allow belt to gain maximum speed before work begins.
- 3.) Put the work piece on the table and orient it perpendicular to the sanding belt.
- 4.) Periodically check the sanded surface and repeat 2 and 3 until the desired finish has been achieved.
- 5.) Perform the corner breaking operation on both sides of the work piece (see previous)
- 6.) Turn off the Belt Sander
- 7.) Clean up area of metal shaving debris after use.

## Never

**NEVER** leave running sander unattended.

**NEVER** use damaged or inoperable equipment

## Maintenance Notes/Service by Operator

\*Contact Shop Supervisor/qualified person:

\*If you detect any damage to the tool

\*If the tool requires a belt change

\*Any additional help or support

