

FACT SHEET

LINISHERS

A **linisher** turns a belt or disc of abrasive material to smooth a workpiece, creating a level, even surface. It can also be used to polish materials. Materials are usually wood or metal but, can be plastic also.

The belt of a linisher belt is continuous and runs over rollers. One of the rollers is driven by an electric motor.

Discs and belts are made of abrasive material bonded to a backing of paper and cloth.

FIGURE 1: LINISHER

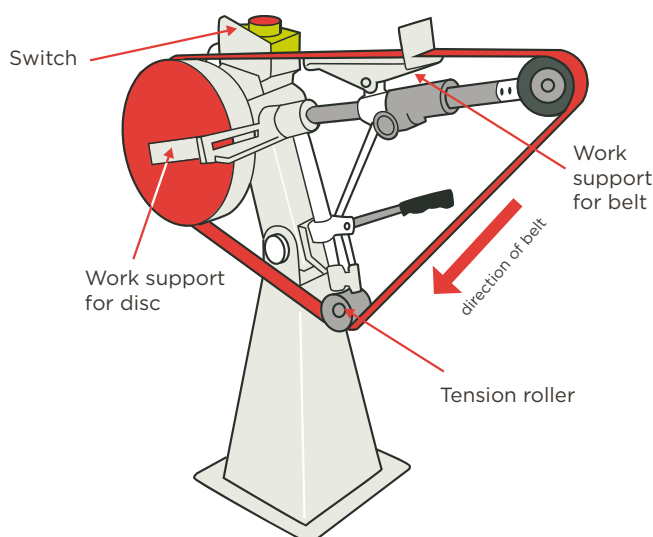
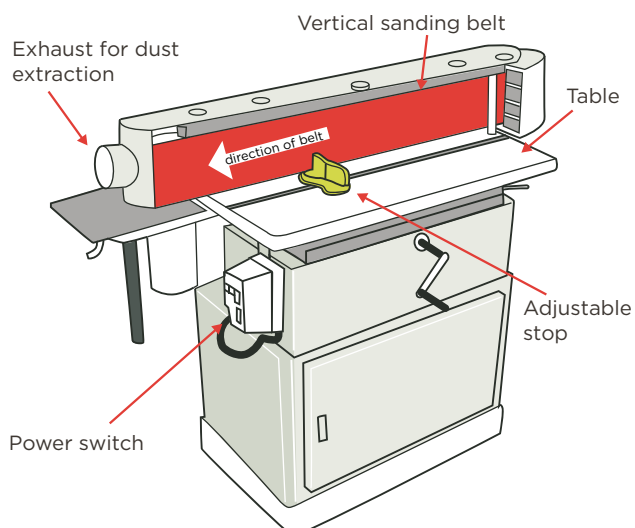


FIGURE 2: LINISHER USED FOR SMOOTHING WOOD



HAZARDS:

- > Nips trapping hands or fingers
- > Contact or impact from thrown workpieces
- > Entanglement with turning wheel or disc
- > Contact or impact from abrasive discs or belts
- > Sparks and hot metal
- > Dust
- > Noise
- > Contact, impact or entanglement from unexpected movement (during maintenance, cleaning & repairs)

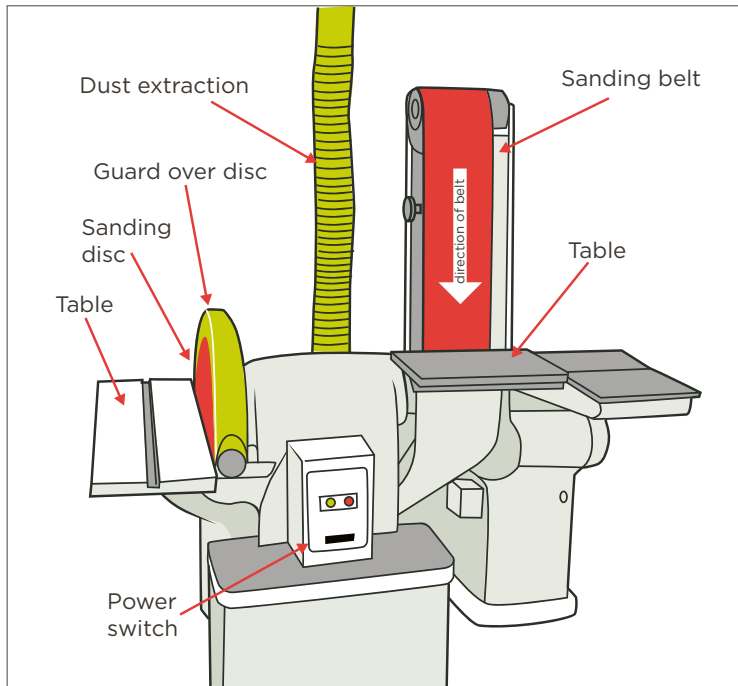
PPE:



PPE:

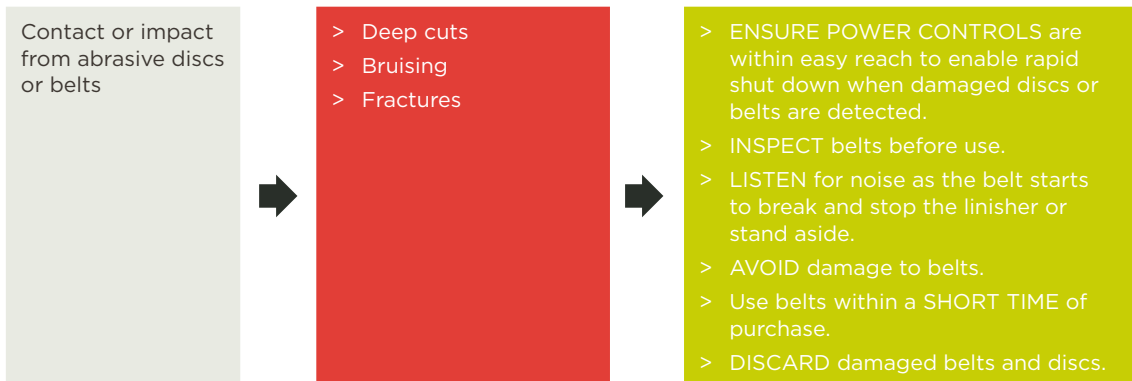
There will be linisher operations where a dust mask alone is adequate protection.

FIGURE 3: LINISHER WITH SANDING DISC AND SANDING BELT, BOTH DRIVEN BY THE SAME MOTOR



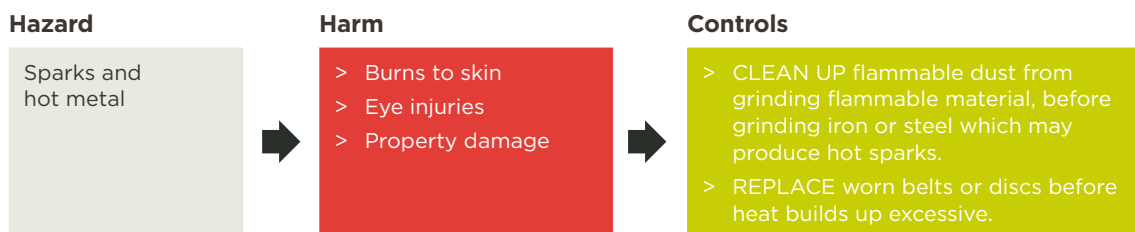
Hazard	Harm	Controls
Nips between belts and rollers trapping hands or fingers	<ul style="list-style-type: none"> > Deep cuts > Crush injuries > Fractures 	<ul style="list-style-type: none"> > HOLD workpieces firmly on the table. > DO NOT approach the nips.
Nips between disc and table, or between abrasive belt and stop, trapping hands or fingers		<ul style="list-style-type: none"> > ADJUST table or stop within 2 mm of the abrasive disc or belt.
Contact or impact from thrown workpieces	<ul style="list-style-type: none"> > Bruises > Fractures 	<ul style="list-style-type: none"> > HOLD workpieces firmly against the abrasive belt or stop, using tools or jigs.
Loosely held workpieces are thrown by the abrasive belt.		
Entanglement with turning wheel or disc	<ul style="list-style-type: none"> > Scalping if hair is caught > Crushed body parts 	<ul style="list-style-type: none"> > TIE back long hair or beards. > WEAR tight fitting clothes, especially sleeves, without long ties. > DO NOT wear jewellery.

Loose clothing, long hair, and jewellery can wrap around spinning wheels.

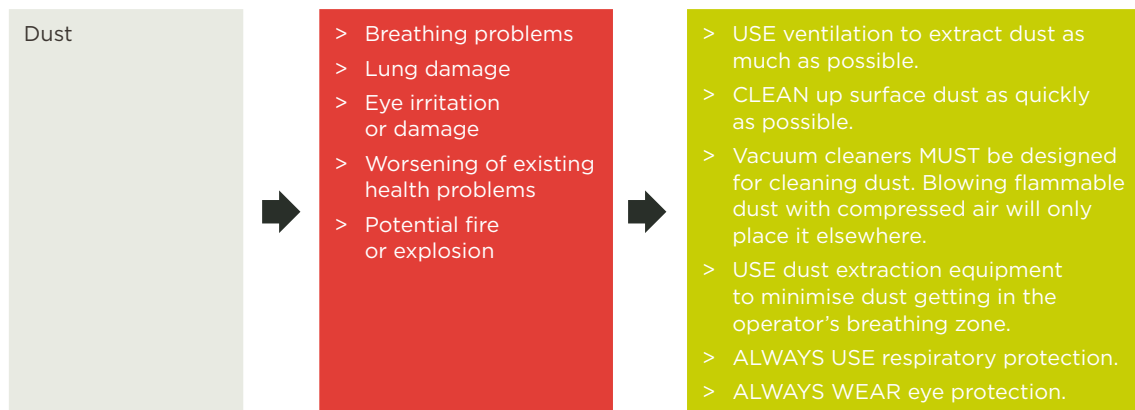


Damaged belts will worsen during use, and may become a projectile, hitting the operator or other people close by.

TASK - OTHER (NON-MECHANICAL) HAZARDS

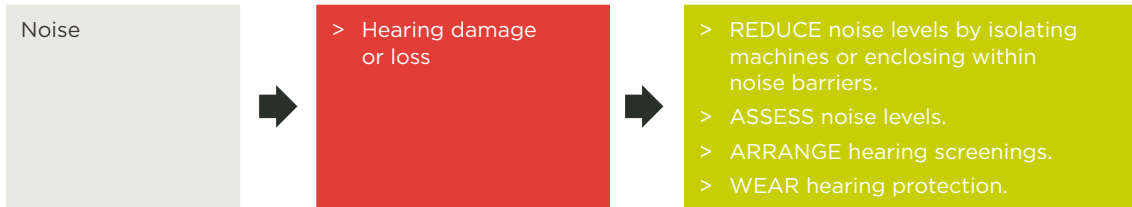


Flammable material may ignite.

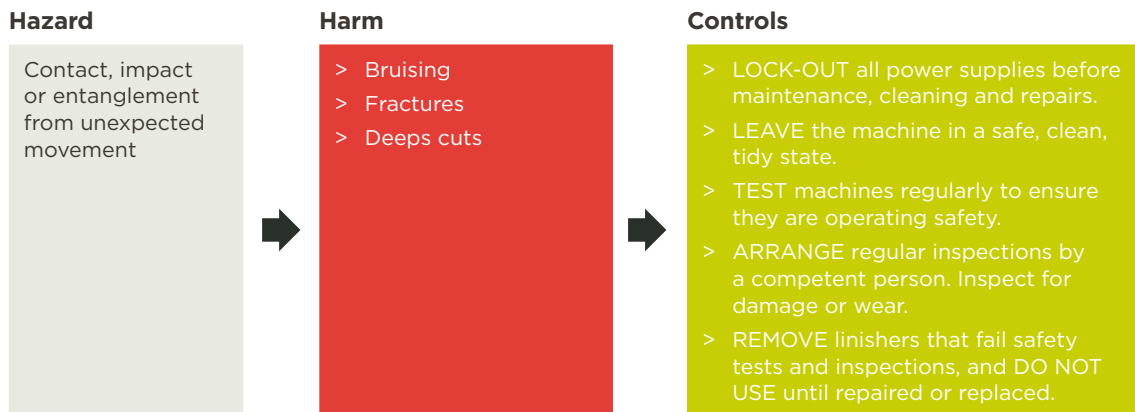


Dust from metals, woods and fibre boards, causes respiratory harm.

Finely divided metal, wood, or plastics dust that is not contained and controlled may fuel a fire or explosion.



TASK - MAINTENANCE, CLEANING & REPAIRS



A safe noise level over an eight hour day is 85dB(A). A linisher may exceed this noise intensity. Instructions MUST be available in a language understood by employees. Inspections MUST be in accordance with the manufacturer's instructions.

References, current standards and further information can be found on the Safe Use of Machinery project page at: www.worksafe.govt.nz

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