

Equipment identification:

Bandsaw

Date :

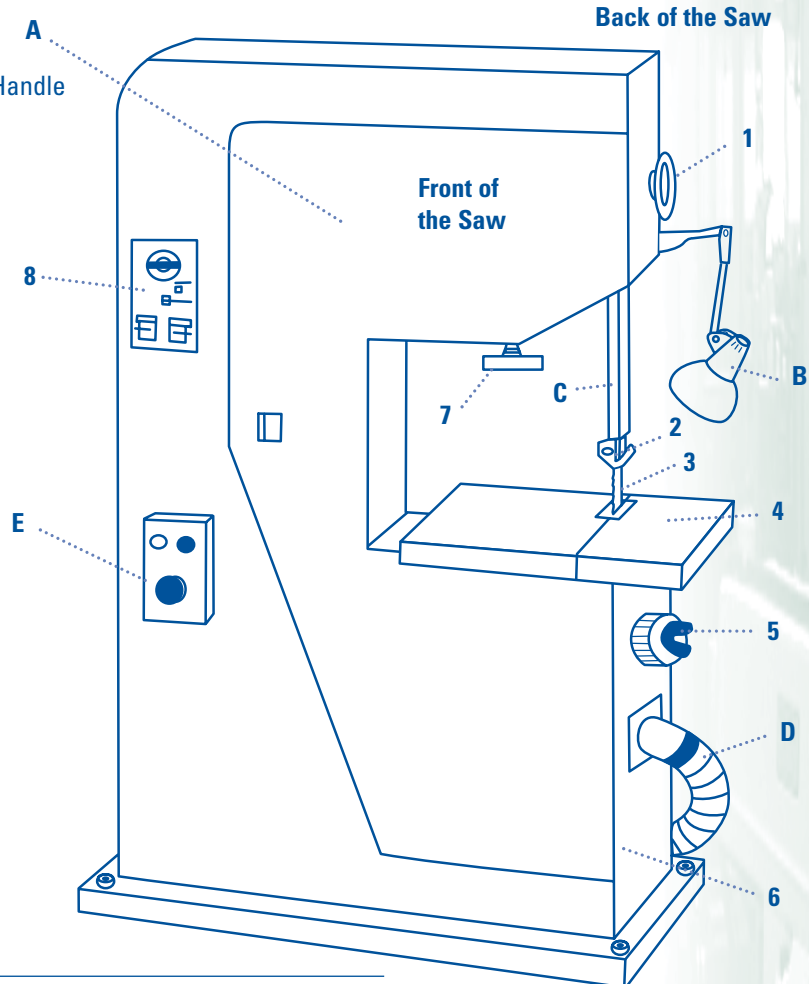
Bandsaw Workstation

Bandsaw Parts

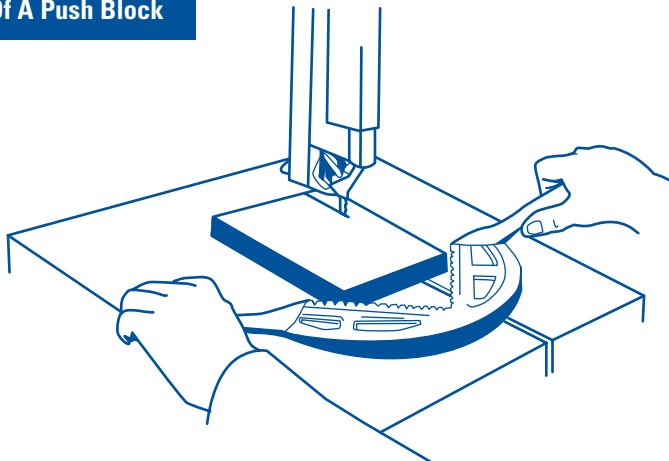
- 1 Guard and Guide Height Adjustment Handle
- 2 Upper Guide
- 3 Bandsaw Blade
- 4 Table
- 5 Blade Speed Adjustment Mechanism
- 6 Frame
- 7 Blade Tension Adjustment Handle
- 8 Blade Splicer

Safety Devices

- A Door With Lock Barring Access To Wheels And Ascending Blade
- B Task Lighting
- C Guards For the Descending Blade
- D Dust Collection Conduit
- E Emergency Stop Button



Example Of A Push Block



Association paritaire pour la santé
et la sécurité du travail
Secteur fabrication de produits
en métal et de produits électriques
www.aspme.org



Institut de recherche Robert-Sauvé
en santé et en sécurité du travail
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SELF-ASSESSMENT FORM

For Occupational Health And Safety

LEGEND

Preventative Measures

- ▶ Procedural Measures
- Orders/instructions

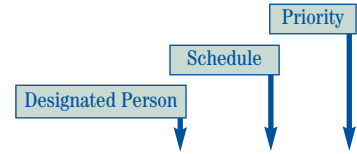
Priority Codes for applying risk measures:

- A. Immediate stoppage and resolution
- B. Resolution as soon as possible
- C. Resolution according to normal company procedures

The suggested preventative measures are based in part from the Workplace Health And Safety Regulations (RSST, S-2.1, r.19.01), from An Act Respecting Occupational Health and Safety (Québec LSST, S-2.1), as well as INRS Safety Data Sheet ND 2151, *Bandsaws*.

Mechanical Hazards

Most likely injuries: Cuts, foreign bodies, contusions, fractures.



Preventative measures	Applicable <input checked="" type="checkbox"/>	Not applicable <input type="checkbox"/>	Notes	Desig.	Sched.	Prior.
Risk Factor: Accidental Contact With The Moving Blade						
▶ Install fixed guards behind and on the side of the machine.	<input type="checkbox"/>	<input type="checkbox"/>				
▶ Install a moveable guard on the ascending blade and in front of the machine (side where the blade changes are done).	<input type="checkbox"/>	<input type="checkbox"/>				
▶ Install a guard on the descending blade, which is: - adjustable to the height of the piece being cut - tightly fastened to the upper blade guide - easily maneuverable.	<input type="checkbox"/>	<input type="checkbox"/>				
▶ Install a brake (mechanical, hydraulic) to quickly stop the rotation of the saw.	<input type="checkbox"/>	<input type="checkbox"/>				
● Adjust the upper guide and guard assembly as close as possible to the workpiece (1 to 4 millimetres).	<input type="checkbox"/>	<input type="checkbox"/>				
● Use a push block to guide smaller pieces.	<input type="checkbox"/>	<input type="checkbox"/>				
● Use a push stick to finish the cut.	<input type="checkbox"/>	<input type="checkbox"/>				
● Remove saw chips with a brush, not with your hands.	<input type="checkbox"/>	<input type="checkbox"/>				
● Never allow a bandsaw to run unattended.	<input type="checkbox"/>	<input type="checkbox"/>				
● Lower the upper guide and guard assembly onto the table once the work is completed.	<input type="checkbox"/>	<input type="checkbox"/>				
● Do not wear loose-fitting clothes.	<input type="checkbox"/>	<input type="checkbox"/>				
▶ Install an easily accessible and clearly marked emergency stop button.	<input type="checkbox"/>	<input type="checkbox"/>				
Risk Factor: Accidental Contact With Moving Parts (Wheels, Belts)						
▶ Install guards.	<input type="checkbox"/>	<input type="checkbox"/>				

Notes:

Mechanical Hazards (continued)

Most likely injuries: Cuts, foreign bodies, contusions, fractures.

Preventative measures	Applicable <input checked="" type="checkbox"/>	Not applicable <input type="checkbox"/>	Notes	Desig.	Sched.	Prior..
Risk Factor: Accidental Start-Up Of The Bandsaw During Blade Change, Maintenance Or Repairs						
▶ Install moveable guards in front of the machine (on the side where blade changes are done), with an interlocking device that:	<input type="checkbox"/>					
- neutralizes the start-up switch when the guard is open, AND						
- maintains the guard in the closed position while the band saw is being used, AND						
- does not provoke start-up at guard closure.						
● Apply lockout procedures:	<input type="checkbox"/>					
- disconnect all sources of energy						
- lockout all sources of energy						
- validate to ensure start-up is no longer possible.						
● Unplug the electrical supply cord and lockout the plug.	<input type="checkbox"/>					
Risk Factor: Contact With The Sharp Edges Of Bandsaw Blade While Not In Use						
● Handle the blade and other parts with cut-resistant gloves. Do not wear gloves while cutting.	<input type="checkbox"/>					
Risk Factor: Flying Fragments Following Blade Breakage						
● Refer to blade application table to select the proper pitch and blade speed.	<input type="checkbox"/>					
● Adjust blade tension according to blade width, using the tension indicator scale.	<input type="checkbox"/>					
● Check the blade's state of repair (presence of cracks, quality of the weld, etc.)	<input type="checkbox"/>					
● Check blade/tooth orientation.	<input type="checkbox"/>					
● Adjust the upper guide and guard assembly as close as possible to the workpiece (1 to 4 millimetres).	<input type="checkbox"/>					
● Ease off on the feed pressure at the start and end of cut.	<input type="checkbox"/>					
● Always do a dry run after replacing a blade.	<input type="checkbox"/>					
● Stop the bandsaw if an unusual noise is detected.	<input type="checkbox"/>					
● Clean the guide brushes to maintain a clean blade.	<input type="checkbox"/>					
● Regularly check the wheel outer bearing faces.	<input type="checkbox"/>					
● Keep the blade lubricated (wax, cutting fluid).	<input type="checkbox"/>					
● Wear CSA-approved safety glasses with lateral protection.	<input type="checkbox"/>					
Risk Factor: Kickback Of A Long Workpiece						
● Supply support for long workpieces.	<input type="checkbox"/>					
Risk Factor: Fall, Slipping						
▶ Repair and clean floor: uneven surfaces, holes, slippery floor, presence of saw chips, etc.	<input type="checkbox"/>					
● Replace cutting fluid with purpose-designed wax.	<input type="checkbox"/>					

Ergonomic Hazards

Most likely injuries: Musculo-skeletal disorders, backaches.

Preventative measures	Applicable <input checked="" type="checkbox"/>	Not applicable <input type="checkbox"/>	Notes	Desig.	Sched.	Prior..
Risk Factor: Handling Heavy And Bulky Workpieces						
▶ Supply mechanical handling devices (hoist, dolly with lift table, etc.) suitable to the weight and dimensions of the workpieces.	<input type="checkbox"/>					
● Ask for help from another worker when help is needed.	<input type="checkbox"/>					
Risk Factor: Straining Working Positions						
▶ Install sufficient lighting to illuminate the work area so as to eliminate the need to bend neck and back.	<input type="checkbox"/>					
▶ Provide adjustable tables which allow for easier access to pieces.	<input type="checkbox"/>					
Risk Factor: Static Standing Work						
▶ Supply an anti fatigue mat.	<input type="checkbox"/>					

Physical Hazards

Most likely injury: Hearing loss.

Preventative measures	Applicable <input checked="" type="checkbox"/>	Not applicable <input type="checkbox"/>	Notes	Desig.	Sched.	Prior.
Risk Factor: Noisy Workplace Environment						
▶ Install acoustic batting (sound-deadening, viscoelastic) on the inside of the chassis guards and housing.	<input type="checkbox"/>					
● Wear earplugs or earmuffs.	<input type="checkbox"/>					

Electrical Hazards

Most likely injuries: Electrocutation.

Preventative measures	Applicable <input checked="" type="checkbox"/>	Not applicable <input type="checkbox"/>	Notes	Desig.	Sched.	Prior..
Risk Factor: Contact With Parts Normally Or Accidentally Energized						
▶ Install an isolating switch near the bandsaw, with clear markings.	<input type="checkbox"/>					
● Lockout the isolating switch box or unplug the electrical supply cord and lockout the plug when performing maintenance or repairs.	<input type="checkbox"/>					
● Check the supply cord insulation and the bandsaw grounding circuit.	<input type="checkbox"/>					

Notes:

Chemical Hazards

Most likely injuries: Irritation of the respiratory tract, dermatitis.

Preventative measures	Applicable <input checked="" type="checkbox"/>	Not applicable <input type="checkbox"/>	Notes	Desig.	Sched.	Prior.
Risk Factor: Exposure To Dust						
● Check that there are no hazardous substances in the workpiece to be cut (e.g., beryllium, cobalt, manganese, lead, etc.).	<input type="checkbox"/>	<input type="checkbox"/>				
▶ Install a vacuum recovery system to capture dust before it reaches the breathing area.	<input type="checkbox"/>	<input type="checkbox"/>				
▶ Vent the workplace with air changes according to rules and regulations.	<input type="checkbox"/>	<input type="checkbox"/>				
● Wear a NIOSH-approved respirator approved for airborne dust particles generated.	<input type="checkbox"/>	<input type="checkbox"/>				
Risk Factor: Exposure To Cutting Fluids						
● Consult the MSDS documentation.	<input type="checkbox"/>	<input type="checkbox"/>				
▶ Purchase cutting fluids that have little or no deleterious effect to skin.	<input type="checkbox"/>	<input type="checkbox"/>				
▶ Replace cutting fluids with a special purpose-designed wax.	<input type="checkbox"/>	<input type="checkbox"/>				

Heat-Related Hazards

Most likely injuries: Burns.

Preventative measures	Applicable <input checked="" type="checkbox"/>	Not applicable <input type="checkbox"/>	Notes	Desig.	Sched.	Prior.
Risk Factor: Fire Or Explosion Following Spontaneous Combustion Of Dust						
▶ Install a dust recovery system outside the building if possible. Consult the NFPA 65 Standards if aluminium dust particles are present.	<input type="checkbox"/>	<input type="checkbox"/>				
▶ Install an explosion vent in the dust recovery system, according to applicable regulations.	<input type="checkbox"/>	<input type="checkbox"/>				

Notes:

Completed By:

This Self-Diagnosis form was developed following a research project in workplace health and safety from IRSST, a workplace health and safety research institute named (Institut de recherche Robert-Sauvé en santé et en sécurité du travail).