

Semiautomatic Band Saw Variable Speed Control

MACHINE DESCRIPTION:

Introducing the Brown SN 420 SA semiautomatic band saw from Pedrazzoli. All saws are not created equal, learn how Pedrazzoli leads the industry in design and dependability. Stable saw platforms increase productivity, improve blade life and overall cut quality and squareness. Ideal for sawing of ferrous or nonferrous tube, pipe and profiles. All Pedrazzoli saws feature robust heavy-duty cast iron bases that minimize vibration during the cutting cycle. Machine can be operated manually or in semiautomatic cycle control of bow movement with flow regulator to adjust downward speed. Bow returns to start position while vise remains closed. The large diameter miter base glides easily over tempered bearing track for easy smooth rotation of saw head. Vise shoulders retract and adjust to support to material effectively for more consistently to the profile being cut. Saw motor mounts vertically reducing overall dimensions of transmission to worm gear drive with full oil bath for longer component life and less maintenance. Proven machine design provides a smooth sawing operation and outstanding reliability. Manufactured and assembled with years of fabrication experience.

Features:















- > Saw positions 60 degrees left and 45 degrees right to fixed stops
- > Large circular saw base rotates over ball track for easy miter movement
- > Variable blade speed adjustment for better sawing performance
- > Laser indicator for aligning cutting position
- > Saw bow movement supported with conical bearings
- > Two blade speed selections for greater material versatility
- > Control panel with simple operator control functions
- > Foot pedal for semiautomatic cutting cycle
- > Blade drive safety switch located in hand grip
- > Safety micro-switch prevents blade operation when guard is open
- > Electronic safety sensor stops band motion in case of breakage
- > Blade tensioning handwheel with spring for uniform tensioning
- > Blade guide arms adjustable to dimension of workpiece
- > Blade guides feature two hardened guides on eccentric bushings
- > Vise shoulders adjust and retract
- > Coolant reservoir with removable electric pump for easy cleaning
- > Heavy cast iron saw base for greater rigidity when sawing
- > Machine on off switch with lockout switch
- > Length stop with micrometer adjustment
- > Machine base designed to accommodate fork lift

Available Accessories

- > Material roller table for loading work piece

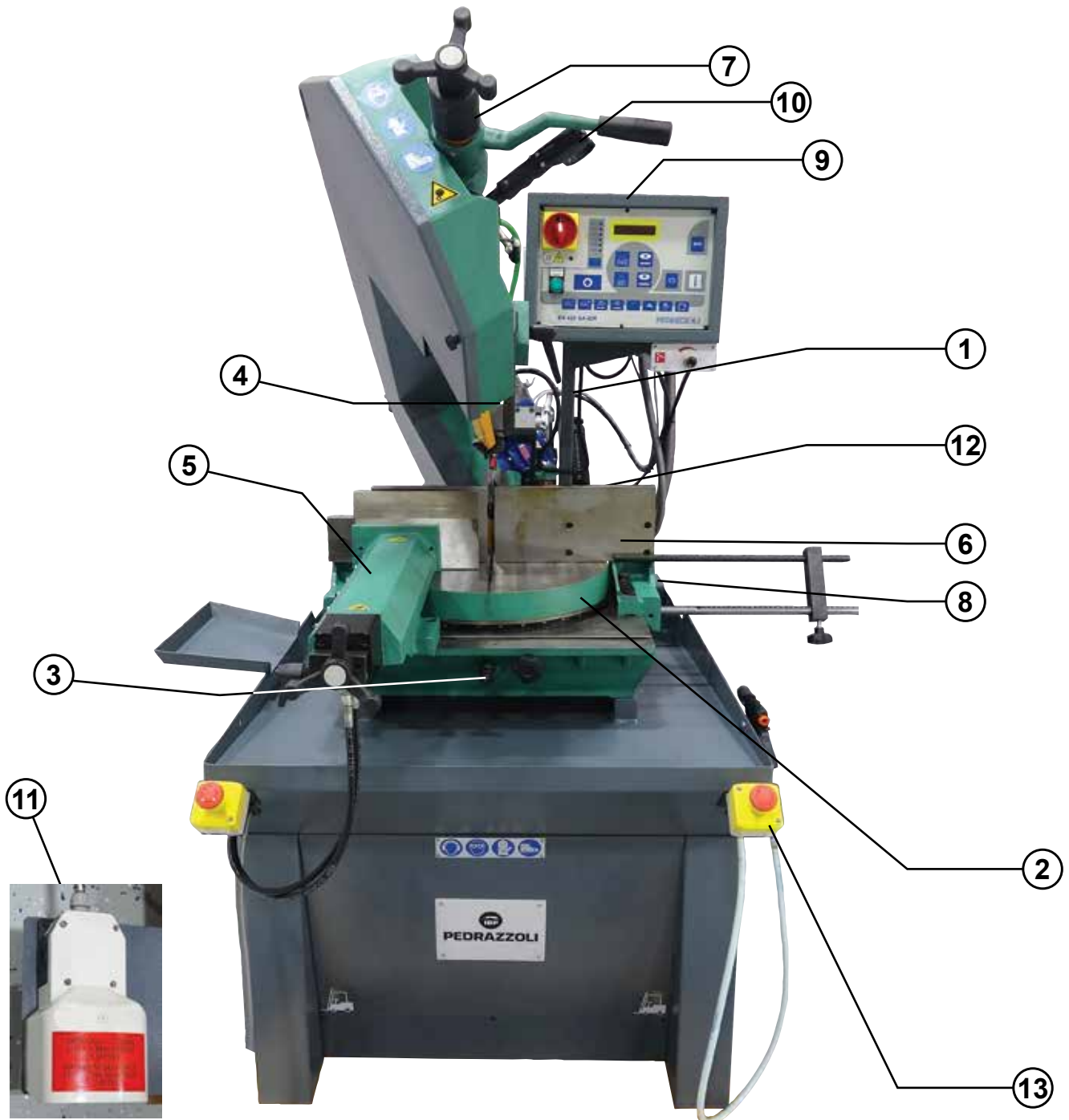
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240V 480V

CUTTING CAPACITY

	 45°	 0°	 45°	 60°
	6.7"	11"	9.1"	5.9"
	5.9"	10.6"	8.7"	5.9"
	9.4" x 3.5"	16.5" x 7.5"	9.1" x 5.9"	3.1" x 2.8"
	1.6 / 2.0 kW			
	35 / 70 m/1* Variable			
	16.5"			
	124" x 1.0625" x .035"			
	1342 lb			
	56" x 74" x 83" *including length stop			
	37.5"			

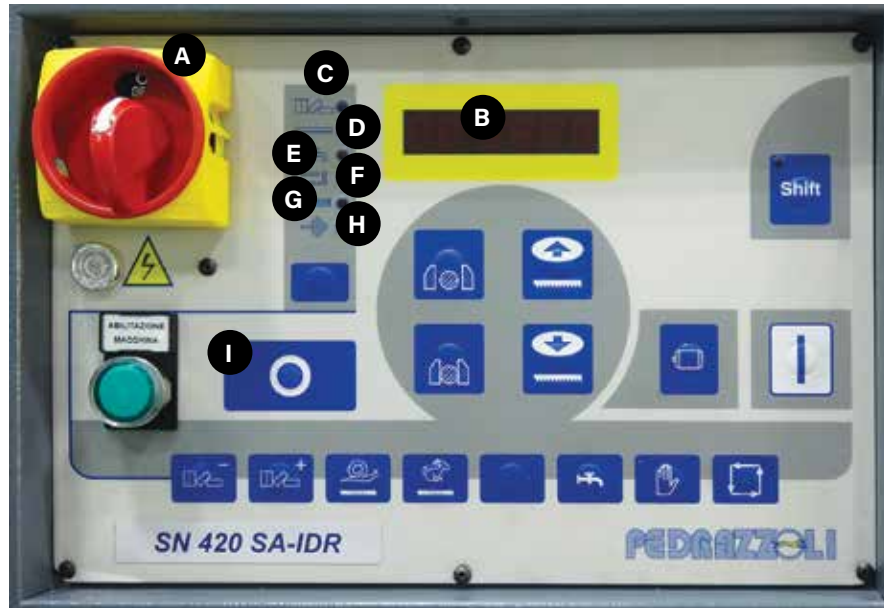
TECHNICAL SPECIFICATIONS





GENERAL IDENTIFICATION OF PARTS

- | | |
|---|--|
| 1. Transmission by means of reducer | 8. Lubrication cooling pump |
| 2. Large support table rotating together with blade | 9. Control panel |
| 3. Pin for 90° cuts | 10. Momentary trigger switch for blade drive |
| 4. Blade guides | 11. Start pedal |
| 5. Adjustable semiautomatic hydraulic vise | 12. Bow support by conical bearings |
| 6. Adjustable and retractable vise shoulders | 13. Double emergency push button |
| 7. Blade tightening device | 14. Electronic safety sensor (under guard) |



SA-IDR CONTROL PANEL

PLC control panel specifically developed for Pedrazzoli band saws: it can be programmed by the operator according to the machine use requirements. The machine can work in manual or semiautomatic mode.

- A. ON/OFF switch
- B. Digital display
- C. Programmable piece counter
- D. Blade rotation speed
- E. Lubrication
- F. Manual or semiautomatic cycle selection
- G. Advanced functions (vise opening/closing at the end of cutting - ON/OFF blade rotation at the end of cutting - etc.)
- H. Ampere absorption display (for cutting speed control, blade wear, etc.)
- I. Semiautomatic cycle stop (acting on this key the bow goes up & the vise stays closed)
- J. Flow regulator, for adjusting bow descent speed



Hydraulic cylinder for bow movement



Laser pointer for cutting position



Gear reduction drive



Large circular table rotating together with the bow to ensure optimal support of the piece to be cut.



Carbide blade guides



Adjustable carbide blade guides



Vise with quick approach, can be positioned transversally along the entire machine base. Adjustable vise shoulders.