



# BROWN SN 420 SA

## SEMI-AUTOMATIC BAND SAW



Viale Pecori Giraldi, 51 - 36061 Bassano del Grappa (VI) | Tel.: (+39) 0424 50 90 11 | Mail: [info@pedrazzoli.ercolina.it](mailto:info@pedrazzoli.ercolina.it) | Web: [www.pedrazzoli.it](http://www.pedrazzoli.it)



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2 Speed Three-phase (V 400 - 50 Hz, other voltages upon request)

#### MAIN FEATURES

All main machine components are in cast iron. Very robust structure reduces noise level and vibrations during cutting cycle.















1. **Motor is in vertical position** to reduce dimensions at rear, the transmission is made by means of a worm drive gearbox in oil bath (1:40 ratio).
2. **Large circular support base:** it offers an ample surface to support piece during cutting cycle and allows to reach a high grade of precision in cutting perpendicularity. It rotates over a tempered ball track giving maximum smoothness during rotation.
3. **Adjustable bow position** by means of a key on eccentric bushing for 90° cuts, by means of mechanical stops at 45° right & 45°-60° left.
4. **Blade guides:** they drive the blade sliding by means of wide hard metal plaques with bearings on eccentric bushings.
5. **Hydraulic cylinder** for adjustable vice motion. It can be positioned lengthwise along the entire machine base. Vice features: rapid closing, closing hand wheel, flat adjustable gib plate.
6. **Retractable and adjustable vice shoulders.** Pushing back the retractable vice shoulder, it is possible to reach the maximum cutting capacity (420 x 190 mm, at 90°). The adjustable vice shoulder allow always to obtain a precise alignment.
7. **Blade tightening device:** this is the best solution for a constant and uniform blade tension.
8. **Blade lubrication cooling system** with electric pump and two adjustable taps placed on blade guides.
9. **Control panel** located in an easily accessible position with ON/OFF switch, cutting speed selector (2 speeds), MANUAL/DYNAMIC cutting selector (for machines with Newton device), emergency push button to cut off the power to the motor in case of emergency.
10. **Blade start switch** with "man present" guard. This is for starting blade rotation during manual cutting cycle; it is guarded by a cover against accidental start-up. It works in low voltage.
11. **Drive pedal** for semiautomatic cutting cycle.
12. **The hinged bow** is moved on a support with conical bearings.
13. **Double emergency push button** located in front of the machine frame for greater security in case of need.
14. **Electronic safety sensor** to stop blade motion in case of slippaging or breakage of the same.

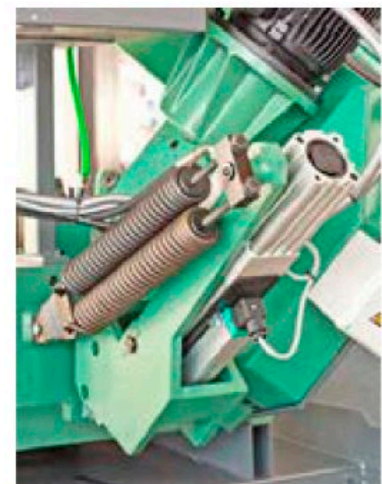
#### ACCESSORIES UPON REQUEST:

Laser cutting indicator  
 Clamp pressure regulator  
 Micromist lubrication  
 Hydraulic vertical anti-burr clamp  
 Electronic speed variator  
 Loading & unloading conveyors

#### CUTTING CAPACITY

#### TECHNICAL DATA

				
 mm	170	280	230	150
 mm	150	270	220	150
 mm	240 x 90	420 x 190	230 x 150	140 x 220
 kW	1.6 / 2.0			
 m/1*	35 / 70			
 mm	420			
 mm	3150 x 27.0 x 0.9			
 kg	610			
 mm	870 x 1860 x 2100			
 mm	955			



Hydraulic cylinder  
for bow movement





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Hydraulic vertical antiburr vice (upon request)



Laser pointer for cutting position (upon request)

### 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 (vice 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 vice stay closed)
- J. Flow regulator, for adjusting bow descent speed

