

BANDSAW MACHINES

**BTMIZI**  
ADVANCED TECHNOLOGY BANDSAWS

# **AUTOMATIC**

90° TWIN-COLUMN - HIGH PERFORMANCE  
AUTOMATIC CUTTING PARAMETERS TOUCH SCREEN



340 CNC 600  
420 CNC 600  
520 CNC 600  
620 CNC 600  
720 CNC 600  
860 CNC 600  
1.000 CNC 500  
1.250 CNC 500

# TECHNICAL DATA / ACCESSORIES

## FEATURES

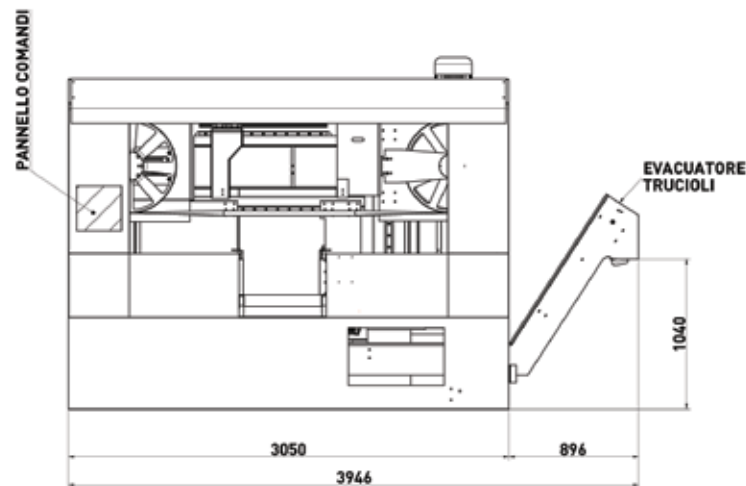
- Bow, base, and columns are fabricated and then stress relieved to greatly reduce cutting vibrations
- Bow upwards/downwards movement, blade-guide arm, feeding carriage and clamping vices are performed on linear ball guides
- Front clamping vice uses tempered and rectified guides
- Carriage vice floats in order to feed crooked stock
- Carbide blade-guides at hydraulic control
- Automatic, hydraulic blade tensioning with breakage control device
- Blade control device
- Adjustable vice pressure
- Full vice opening/closing through hydraulic cylinders
- Blade motor controlled by digital frequency drive
- Cutting downfeed controlled by two hydraulic cylinders and with infinite adjustment through flow regulator activated by a dc motor
- CNC control device
- Flood coolant system
- Chip conveyor
- Low voltage system according to EC rules
- Protection grids or photo-cells on the whole working area
- Embossed enamel finishing: red RAL 3001 - blue RAL 7035 BTM customized

## STANDARD ACCESSORIES

- Blade deflection control device
- Vice pressure regulators

## ACCESSORIES ON REQUEST

- Hydraulic bundle cutting (All Models)
- Dry cooling device



Mod. 520 CNC 600





	340 CNC 600	420 CNC 600	520 CNC 600
Cutting capacity mm	∅ 340 ∇ 340	∅ 420 ∇ 420	∅ 520 ∇ 520
Bundle (optional)	340 x 340	420 x 420	520 x 520
Blade dimensions L x W x H	mm 5.300 x 41 x 1.3	mm 6.300 x 41 x 1.3	mm 6.500 x 41 x 1.3
Blade speed	mt/min 12 ÷ 80	mt/min 13 ÷ 65	mt/min 13 ÷ 65
	-	-	-
	-	-	-
Max set length	9.999	9.999	9.999
Blade motor Hydraulic	Kw 4.4	Kw 5.5	Kw 7.5
pump motor	Kw 2.2	Kw 2.2	Kw 2.2
Cooling pump motor	Kw 0.25	Kw 0.25	Kw 0.25
	-	-	-
	-	-	-
Carriage stroke	mm 600	mm 600	mm 600
Working height	mm 790	mm 790	mm 790
Overall dimensions L x W x H	cm 335 x 200 x 245	cm 370 x 200 x 245	cm 395 x 200 x 245
Loading dimensions L x W x H	cm 335 x 195 x 230	cm 370 x 195 x 230	cm 395 x 195 x 230
Weight	Kg 3.500	Kg 3.800	Kg 4.800

	620 CNC 600	720 CNC 600	860 CNC 600	1.000 CNC 500	1.250 CNC 500
Cutting capacity mm	Ø 620 ∅ 620	Ø 720 ∅ 720	Ø 860 ∅ 860	Ø 1.000 ∅ 1.000	Ø 1.250 ∅ 1.250
Bundle (optional)	620 x 620	720 x 720	860 x 860	1.000 x 1.000	1.250 x 1.250
Blade dimensions L x W x H	mm 8.020 x 54 x 1.6	mm 9.360 x 67 x 1.6	mm 9.360 x 67 x 1.6	mm 12.030 x 80 x 1.6	mm 12.500 x 80 x 1.6
Blade speed	mt/min 12 ÷ 80	mt/min 12 ÷ 80	mt/min 10 ÷ 85	mt/min 10 ÷ 50	mt/min 10 ÷ 50
Fast down-feed	mm/1' 3.500	mm/1' 3.500	mm/1' 3.500	mm/1' 3.500	mm/1' 3.500
Working downfeed	mm/1' 0 ÷ 200	mm/1' 0 ÷ 200	mm/1' 0 ÷ 200	mm/1' 0 ÷ 200	mm/1' 0 ÷ 200
Max set length	mm 9.999	mm 9.999	mm 9.999	mm 9.999	mm 9.999
Blade motor	Kw 7.5	Kw 7.5	Kw 1.1	Kw 15	Kw 15
Hydraulic pump motor	Kw 4	Kw 4	Kw 2.2	Kw 4	Kw 4
Cooling pump motor	Kw 0.25	Kw 0.37	Kw 0.25	Kw 0.4	Kw 0.4
Feeding carriage motor	Kw 0.75	Kw 2.2	Kw 2.29	Kw 4.45	Kw 4.45
Chip conveyor motor	Kw 0.55	Kw 0.55	Kw 0.25	Kw 0.56	Kw 4.45
Carriage stroke	mm 600	mm 600	mm 600	mm 500	mm 500
Bow down-feed motor	-	Kw 2.29	Kw 2.29	Kw 4.45	Kw 4.45
Working height	mm 850	mm 630	mm 630	mm 680	mm 630
Overall dimensions L x W x H	cm 455 x 250 x 275	cm 565 x 280 x 270	cm 550 x 250 x 305	cm 670 x 300 x 380	cm 570 x 300 x 376
Loading dimensions L x W x H	cm 450 x 220 x 245	cm 545 x 240 x 270	cm 540 x 235 x 255	cm 670 x 231 x 340	cm 565 x 235 x 320
Weight	Kg 6.500	Kg 9.400	Kg 9.500	Kg 12.500	Kg 15.000

**1.250 CNC 500**

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## BTM North America

Woodstock, Ontario, Canada

(519) 539 - 0450

[www.btmsaws.com](http://www.btmsaws.com) - [info@btmsaws.com](mailto:info@btmsaws.com)

## THE COMPANY

Since the beginning in 1982, BTM has developed a solid expertise and competence in machine development, design and production.

BTM specializes in the development of medium to large high performance bandsaw machines. These machines are produced utilizing a very heavy and strong structure and are ideal to cut any material from mild to high resistance such as hastelloy or iconel.

The close relationship between BTMs' development team and the final customer requirements, allows BTM to develop a product that exceeds the end users quality, reliability and productivity expectations. This is BTMs' ultimate goal in developing sawing equipment.

The design, assembly and final testing are all performed by highly skilled personnel at BTMs' state of the art production facilities.

BTM products are at the forefront of development for bandsawing technology and it is through this process that allows BTM to be a world leader in sales of sawing equipment. The development of the Automatic Cutting Parameters control is just one example of BTMs' engineering expertise.