



WOODWORKING MACHINERY
SINCE 1929

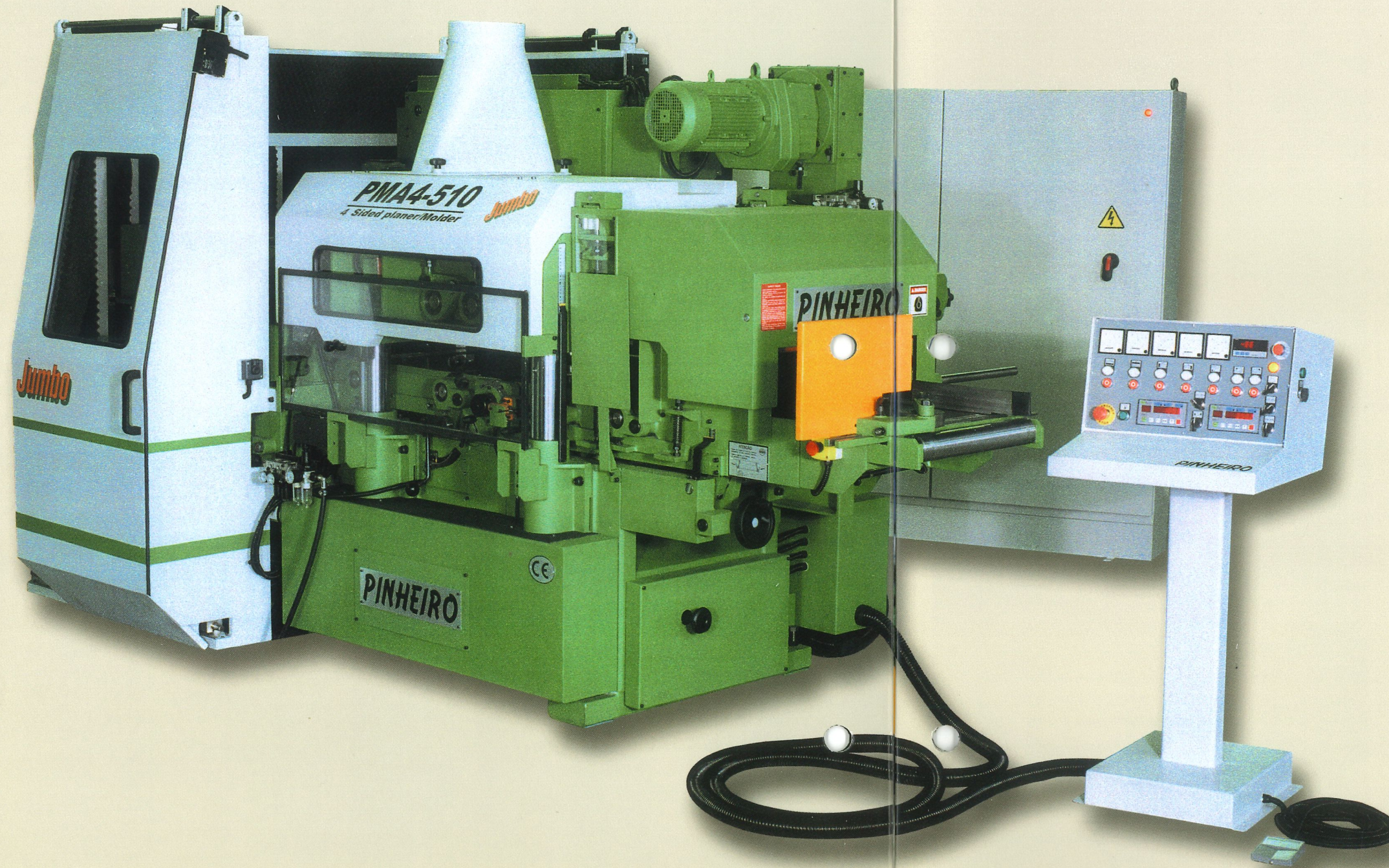


MÁQUINAS PINHEIRO, LDA is a private Portuguese woodworking machinery manufacturer company established since 1929, located in Trofa, 20 Km north of Porto - PORTUGAL.

National pioneer in the sector, since 1929, the company develops a policy of technology partnerships with United States, Germany, Switzerland, France and Italy through licences for the use of patents as well as machinery innovations in conjunction with our customers and suppliers. Presently its commercial organisation comprises all the domestic market and spreads out to all the five continents through a net of agents and distributors. Exporting 70% of its production being USA the main market with a share of 30%.

PINHEIRO production department with the cooperation of engineers and designers, apart from continuously improving its existing products is highly experienced in the project of new Sawmills for hard and softwood, in the rationalization of the existing ones as well as in the Constant Table Type Wide Planer Moulders and Multigang Ripsaws and Double Edgers.

4 SIDED PLANER – PMA SERIES

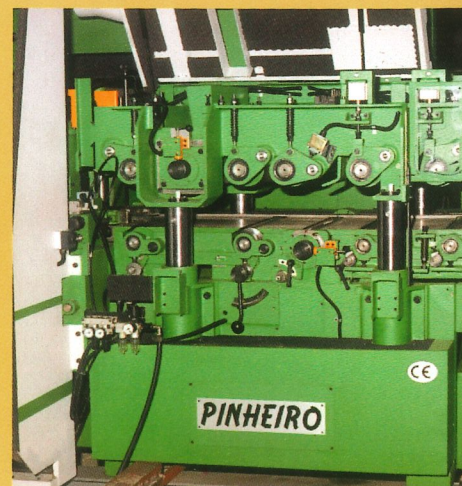


- Frame in very strong stabilized steel construction
- Planing module assembled in 4 cylindrical posts of big diameter
- Machine with fixed table
- Cardan driven
- 7 Powered feed rollers and 1 idle
- Feed speed inverter with digital readout
- Right longitudinal fence with manual adjustment on the outside
- Movable control post
- Proof guards

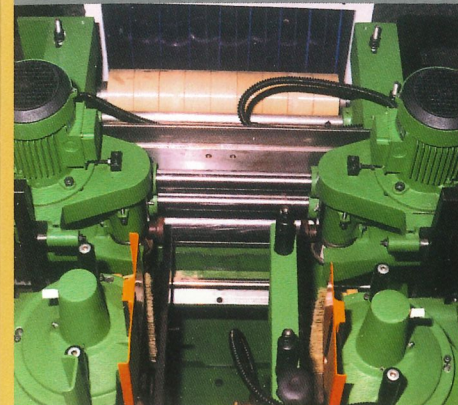
Available options:

- Gang saw arbor
- Horizontal 5th spindle
- Side arbors with floating system
- Chamfering units
- Pneumatic pressure
- Electric side movement on the left side arbor
- Automatic thickness + width positioner
- Outfeed device
- TERSA cutterheads

Technical Data		
	PMA4	Options
Working width	490 or 840 mm	
Working height	205 mm	260 and 310 mm
Minimum section	45 x 12 mm	45 x 8 mm
Bottom arbor	10 hp	up to 40 hp
Top arbor	15 hp	up to 40 hp
Side arbors	7,5 hp	up to 30 hp
Feeding motor	5,5 hp	up to 15 hp
Feeding speed	7 to 40 m/min.	up to 60 m/min.
Top feeding	4 Powered rollers	Outfeed device with 2 top powered rollers and 3 bottom idler rollers or 2 bottom powered rollers
Bottom feeding	3 Powered rollers 1 Idle roller	



View of the side arbors and chamfering units (option)



Gang rip saw module (option)



4 SIDED PLANER – PMS SERIES



- Frame in very strong stabilized steel construction
- Planing module assembled in 4 cylindrical posts of big diameter
- Machine with fixed table

Side view of the machine with safety covers open



- Chain driven top and bottom feed rollers with two independent motors synchronised by an electronic feed speed inverter
- Feeding with outfeed device composed by 6 powered top and 5 powered bottom feed rollers
- Electric height adjustment of the top head
- Feed speed inverter with digital readout
- Right longitudinal fence with manual adjustment
- Control post placed on the electrical box
- Proof guards

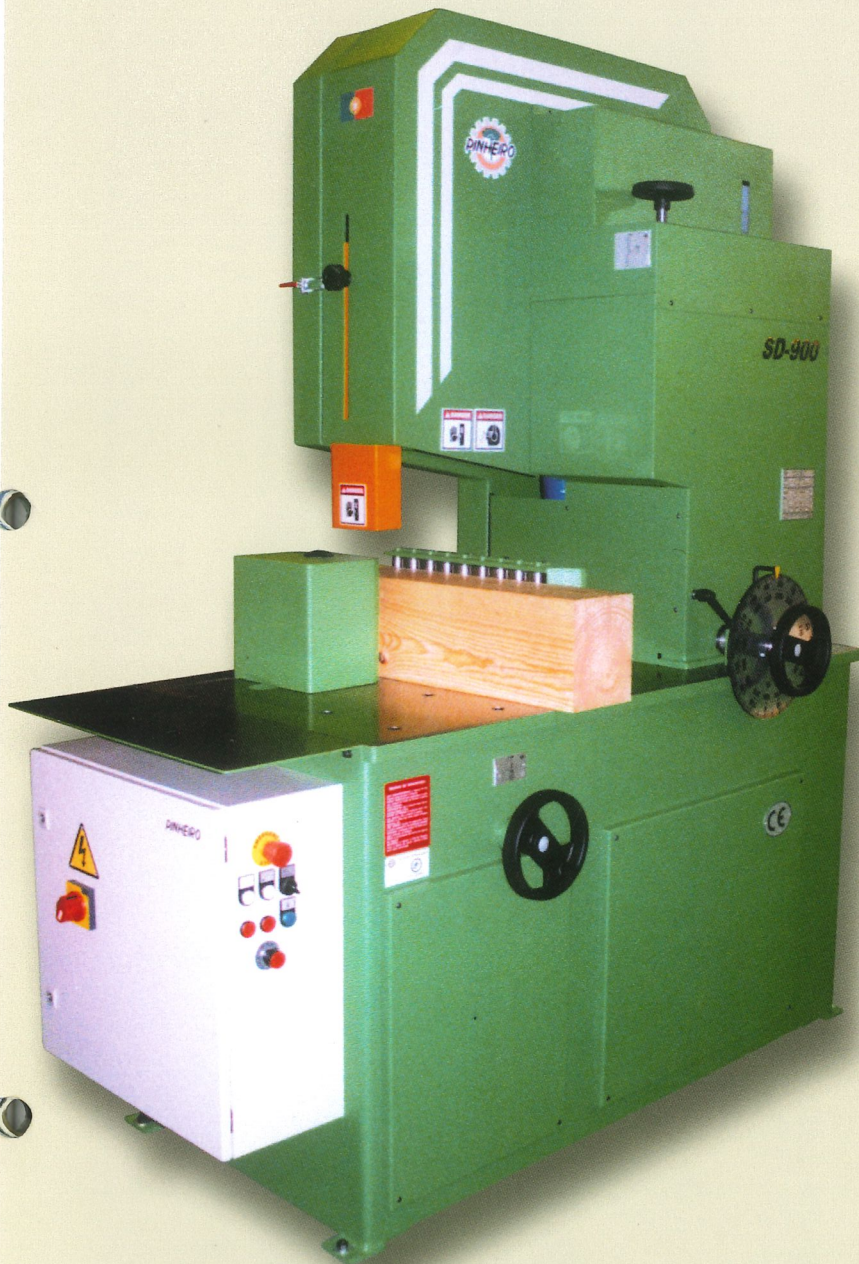
Available options:

- Electric side movement on the left side arbor
- Electronic digital thickness readout
- TERSA cutterheads
- Different motor powers

Technical data

	PMS	Options
Working width	510 mm	
Working height	200 mm	260 and 300 mm
Minimum section	45 x 12 mm	30 x 8 mm
Bottom arbor	10 hp	15 hp
Top arbor	15 hp	up to 25hp
Side arbors	7,5 hp	up to 15 hp
Top feeding motor	4 hp	5,5 CV
Bottom feeding motor	2 hp	3 CV
Feeding speed	7 to 40 m/mn	

BAND RESAW SD-900



- **Frame in very strong stabilized welded steel construction**
- **High quality cast iron saw wheels with grooved faces and dynamically balanced**
- **Multi-roller fence with rack and pinion adjustment**
- **Constant pressure saw guides**
- **Radial feed system with variable feed speed with rack and pinion adjustment**
- **Hydraulic blade tension**
- **Table with an hard chrome insert**

Detail of the hydraulic blade tension



Technical data

Saw wheels diameter	900 mm
Max. cutting height	375 mm
Max. sawblade width	100 mm
Max. length of the sawblade	5500 mm
Min. length of the sawblade	5400 mm
Max. opening feed roll to sawblade	230 mm
Max. opening fence to sawblade	305 mm
Main motor	15 kw (20 hp)
Feed speed	5 to 30 m/mn
Dust hood exhausting diameter	150 mm
Overall width	910 mm
Overall length	1850 mm
Net weight	1700 kg

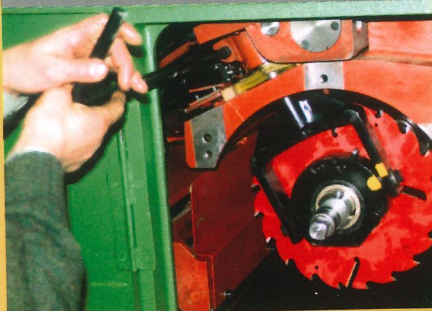
CHAIN FEED STRAIGHT-LINE MULTIPLE RIPSAW – AMA 2 SERIES



Well known by its robustness as well as precision of cut this series is composed by several models.

- Frame in very strong stabilized welded steel construction
- Saw spindle with support bearing (400 series)
- Double V guided feed chain
- Fixed or movable sleeve with lasers in accordance of the model
- Electronic feed speed inverter with digital readout
- Electric height adjustment of the saw spindle (400 series)
- Electric height adjustment of the pressure head
- Automatic chain lubrication
- Proof guards
- Adjustable control post

Assembly a saw blade on a movable saw sleeve



Disassembly the side door with outboard bearing



Technical data

Model	208	310	410	314	414
Workpiece thickness	80 mm	95 mm		140 mm	
Cutting width	230 mm	305 mm	450 mm	305 mm	450 mm
Max. width for passage boards	750 mm	860 mm	1000 mm	860 mm	1000 mm
Saw blade diameter	from 200 to 300 mm	from 250 to 350 mm		from 300 to 450 mm	from 250 to 450 mm
Nr. of top pressure rolls	4	6		4	
Saw motor	from 20 to 50 hp	from 30 to 100 hp			
Feed motor	2 hp	3 hp	4 hp		
Feed speed	from 7 to 40 m/min				

Available options:

- *Pneumatic top pressure rolls*
- *Automatic saw blade distance positioner with 99 memories*
- *Hydraulic feed system*
- *2 movable saws (400 series)*

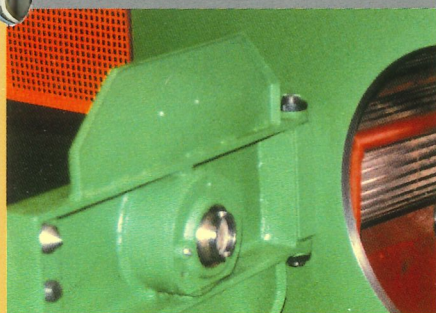
HYDRAULIC DOUBLE EDGER AH-80



By its conception and working capacity the Hydraulic Double Edger is the ideal machine for sawmills.

Side door with outboard bearing

View of the hydraulic system



- Frame in very strong stabilized welded steel construction
- Hydraulic feed assured by 5 rollers of great diameter being 2 on top and 3 on bottom
- Hydraulic feed speed
- Hydraulic adjustment of the movable saw
- Side door with outboard bearing
- Mobile separate control post
- Laser for the fix saw sleeve
- Laser for movable saw sleeve
- Idle rollers infeed table of 2 m length

Technical data

Max. width for passage boards	800 mm
Max. distance between saws	585 mm
Min. distance between saws	40 mm
Max. cutting depth	130 mm
Min. cutting depth	10 mm
Hydraulic feed speed	4 to 75 m/min.
Saw motor: min. - max.	40 to 75 hp
Minimum stock length	650 mm

LOG CARRIAGES MODEL BALA SERIES 1000 - 1300 - 1700

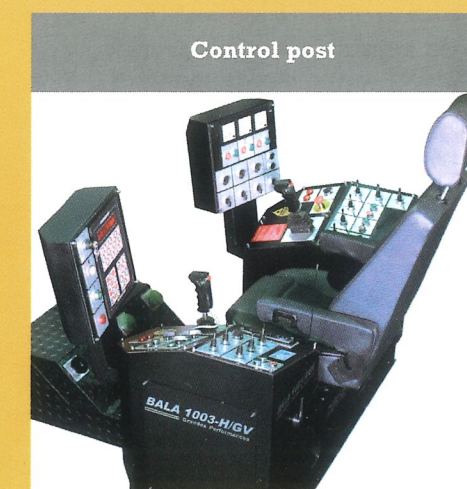


- The frame made of square or rectangular tubing, cross braced and corner gusseted, runs on a pair of wheels each headblock.
- Headblocks are made in extra heavy, welded steel construction and are moved on precision machined block supports with composite plastic for minimize wear and maximize ease of movement.
- Knees are driven from the set common back-shaft by high tensile roller chain.
- A single bottom and two top dogs allow short, fast dogging cylinder travel.
- Dogging system with double pressure and hydraulic clamp.
- Log turners type double arms with rolls provide fast turning in both directions (series 1000 and 1300).
- Slabe turners.
- Setworks by hydraulic motor and division MUDATA with 100 programs, 21 presets
- Automatic lubrication minimize maintenance costs.
- Carriage driven hydraulic motor with considerable acceleration. Steel rope transmission.
- Control post ergonomics.
- Rails mounted in I beams frame.

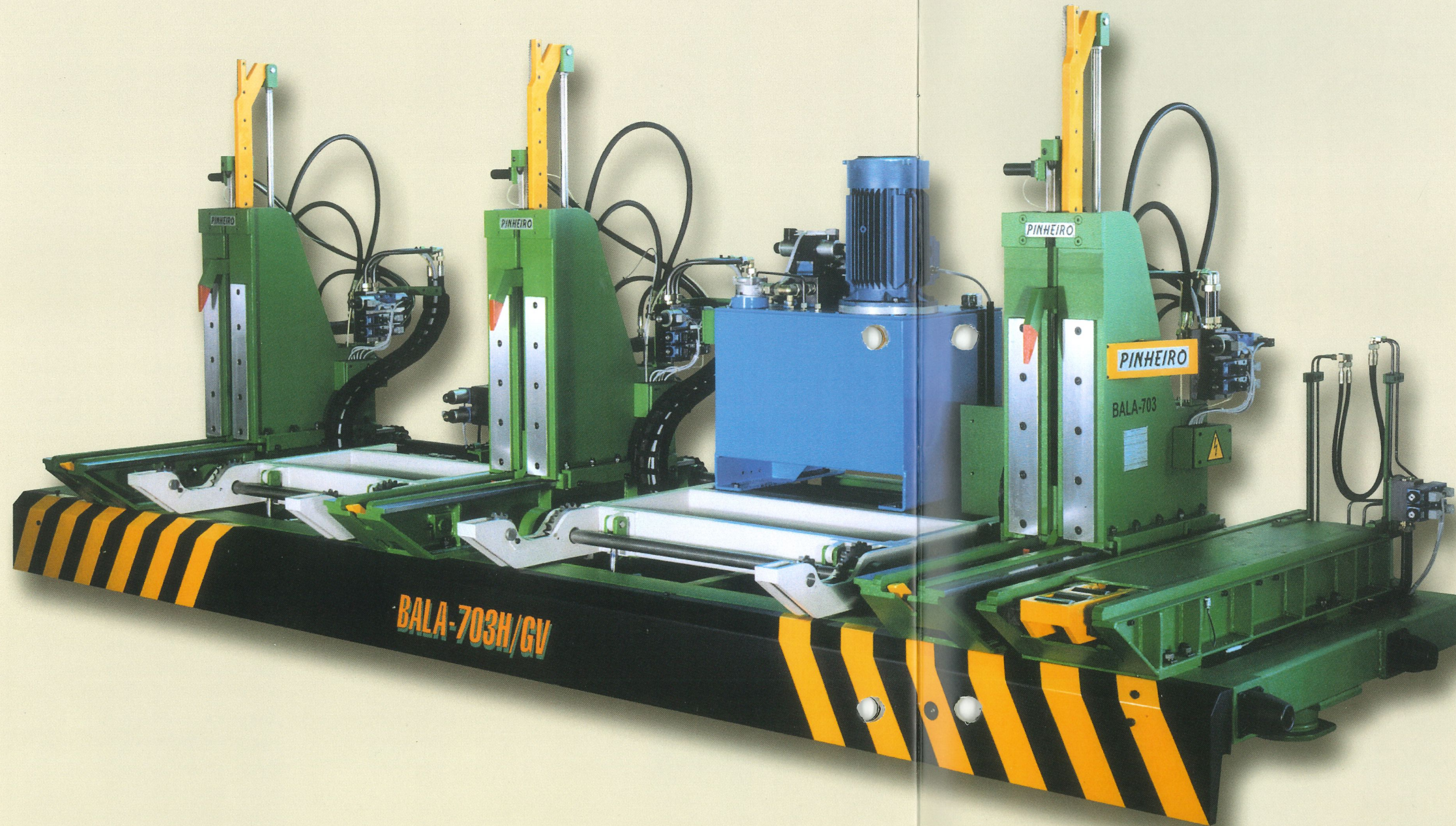
Options:

- Setworks by servo-motor (brushless)
- Linear positioning
- Carriage driven by servo motor

Technical Data			
	1000	1300	1700
Max. log diameter (mm)	1000	1300	1700
Max. log length (m)	4,5 6 8	4,5 6 8	6 8 10
Number of headblock	2 3 4	2 3 4	3 4 5
Max. distance sawline (mm) to headblock	1100	1300	1700
Dogs opening (mm)	60 to 800	60 to 1000	50 to 1400
Dogs travelling (mm)	16 to 92	16 to 92	16 to 170
Dogs operation (options)	Hydraulic Pneumatic	Hydraulic Pneumatic	Hydraulic
Setworks operation (options)	Hydraulic motor Servo motor	Hydraulic motor Servo motor	Hydraulic motor
Log turners (standard)	1 2 3	1 2 3	
Slabe turners (standard)	2 4 6	2 4 6	3 4 5
Distance between rails (mm)	1375	1525	1980
Rails length (m)	12 15 20	12 15 20	16 20 24



LOG CARRIAGES MODEL BALA SERIES 700 - 1100



- The frame made of I beams, cross braced and corner gusseted, runs on a pair of wheels with axle each headblock.
- Headblocks are made in extra heavy, welded steel construction and are moved on precision machined block supports with composite plastic for minimize wear and maximize ease of movement.
- Knees are driven from the set common back-shaft by high tensile roller chain.
- Dogging system with double pressure and hydraulic clamp.
- Log turners type double arms with rolls provide fast turning in both directions.
- Slabe turners, one by each headblock.
- Setworks by hydraulic motor and division MUDATA with 100 programs, 21 presets
- Automatic lubrication minimize maintenance costs.
- Carriage driven hydraulic motor with considerable acceleration. Steel rope transmission.
- Post control ergonomics.

Options:

- Setworks by servo-motor (brushless)
- Linear positioning
- Rails mounted on I beams frame
- Carriage driven by servo motor

Technical Data

		700				1100			
Max. log diameter (mm)		700				1100			
Max. log length (m)		3,5	6	10	12	6	10	12	
Number of headblock		2	3	4	5	3	4	5	
Max. distance sawline to headblock (mm)		825				1050			
Dogs opening (mm)		20 to 620				20 to 920			
Dogs travelling (mm)		15 - 120				15 - 150			
Dogs operation (options)		Hydraulic Pneumatic				Hydraulic Pneumatic			
Setworks operation (options)		Hydraulic motor - Servo motor				Hydraulic motor - Servo motor			
Log turners (standard)		1	2	3	4	2	3	4	
Slabe turners (standard)		2	3	4	5	3	4	5	
Distance between rails (mm)		1000				1200			
Rails length (m)		12	15	24	28	16	24	28	

Carriage driven hydraulic



HYDRAULIC VERTICAL LOG BANDSAW SFA7



- Welded steel construction column and base
- High quality cast iron flywheels, support and bearing housing
- Blade guide and blade tension are hydraulically operated
- Constant pressure upper and lower blade guide
- Automatic centralized lubrication for wheels and blade surfaces
- Pneumatically operated blade braking device
- Pressure regulated limit switch (hydraulic) to shut machine down in case of pressure drop.

Detail of the wheels and blade lubrication



OPTIONS:

- Chains conveyor (double cut)
- Chains conveyor for unloading cants
- Laser 15 mW or 30 mW

Technical Data

	1250	1400	1600
Saw wheel diameter	1250 mm	1400 mm	1600 mm
Saw wheel crown width	155 mm	185 mm	240 mm
Max. width of the saw blade	160 mm	206 mm	260 mm
Max. width of the saw blades double cut		230 mm	305 mm
Max. length of the saw blade	7900 mm	9400 mm	11000 mm
Saw blade speed	45 m/s	45 m/s	45 m/s
Max. cutting height	1100 mm	1140 mm	1500 mm
Max. cutting height Option		1440/1590 mm	1750/1950 mm
Distance between the blade and column	650 mm	750 mm	920 mm
Main motor	75 hp	100 hp	125 hp
Main motor Option	100 hp	125 hp	150 hp



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