

NB-200

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NEBES Elettromeccanica S.R.L.

Made in Italy since 1962

Bandzaagmachines met inductie motor (20-25)



AKKERMANS
INDUSTRIAL ENGINEERING



BAND SAW MACHINES



BAND SAW MACHINES

TRANSPORTABLE AND SEMITRANSPORTABLE Band saw machines

- ✓ 30% longer blade duration due to absence of vibrations
- ✓ 0,25mm of precision on h100 cut
- ✓ 1 year warranty on all mechanic components
- ✓ 1335 and 1440 mm blade development.
Transportable band saw machines represent the answer to everyday needs of professional users during their transfers in worksites
- ✓ 1735 mm blade development. Semi-transportable band saw machines have been designed for craftsmen and professionals who work on medium profiles and thicknesses but look for saw machines able to stand intense and continuous working peaks.



INDUSTRIAL Band saw machines

- ✓ 30% longer blade duration due to absence of vibrations
- ✓ 0,03mm of precision on h100 cut
- ✓ 3 years warranty on all mechanic components
- ✓ 2040, 2080 and 2450 mm blade development. They are the flagship of European saw machines. Cutting precision is unprecedented: less than 3 cents of millimeter squareness on 100 mm cut.
- ✓ TM275 CD controlled drop model is equipped with the exclusive hydraulic brake that allows to keep a constant speed in arc dropping.



INVERTER MOTOR

All Inverter range models are equipped with the exclusive S.R.R (Noise Reduction System) patent that, on a permanent magnet motor with direct current, controlled by an INVERTER, assures 60% noise reduction: it represents a new characteristic on a worldwide basis; NEBES is the first company that has applied and patented it. Other important features characterising NEBES machines are the following:

- ✓ Very low heating of motor and rotary parts, due to lower number of revolutions of the rotor (from 1800 to 4000 rev/min)
- ✓ Lower number and higher thickness of gears for a very long mechanical tranquillity
- ✓ Brushes replacement after about 1500 working hours
- ✓ Cast iron pulleys: they allow to use lubricant sprays during cut.



INDUCTION MOTOR

Induction motor develops a fixed and constant (about 3000 rev/min) number of revolutions and needs a gear reducer in order to offer all the necessary couple. It is characterised by a total absence of maintenance in that no brushes or carbon items shall be replaced. It is available with one or two speeds and it is the ideal value for intensive use, for anyone who looks for an endless machine. Nebes was founded more than fifty years ago as manufacturer of induction motors and developed in time a deep knowledge reaching the conception and assembly of high performance and compact motors.



BAND SAW MACHINES WITH INDUCTION MOTORS

TM 195 MI

Blade 1900 mm

Known throughout history as the EV996 model, NEBES re-proposes the MADE IN ITALY stationary this band saw machine. 100% MADE IN ITALY. The main feature is the extreme practicality and great optimization of the spaces.



Cutting capacity		0°	45°	60°
Round	○	∅ 160 mm	∅ 125 mm	∅ 80 mm
Square	□	160x160 mm	115x115 mm	50x50 mm
Rectangular	▭	160x150 mm	110x160 mm	100x50 mm

- Double speed
- Low voltage panel
- Aluminum structure
- Possibility of choosing the power supply
- Automatic blade tension adjustment
- Big vise and extremely accurate
- Integrated coolant pump



Art.	Hp	W	TOOTH PITCH pas Z	CUTTING SPEED	BLADE SIZE mm	WEIGHT NET	WEIGHT GROSS Pallet	DIMENS. cm packaging cm
TM195MI-MF	1~	600/820	6/10	37/70	1900x20x0,9	102 kg	112 kg	95x53x126h
TM195MI	3~	600/820	6/10	37/70	1900x20x0,9	102 kg	112 kg	95x53x126h

Spare blades: 1900x20x0,9 – MINIMUM QUANTITY 5 PCS

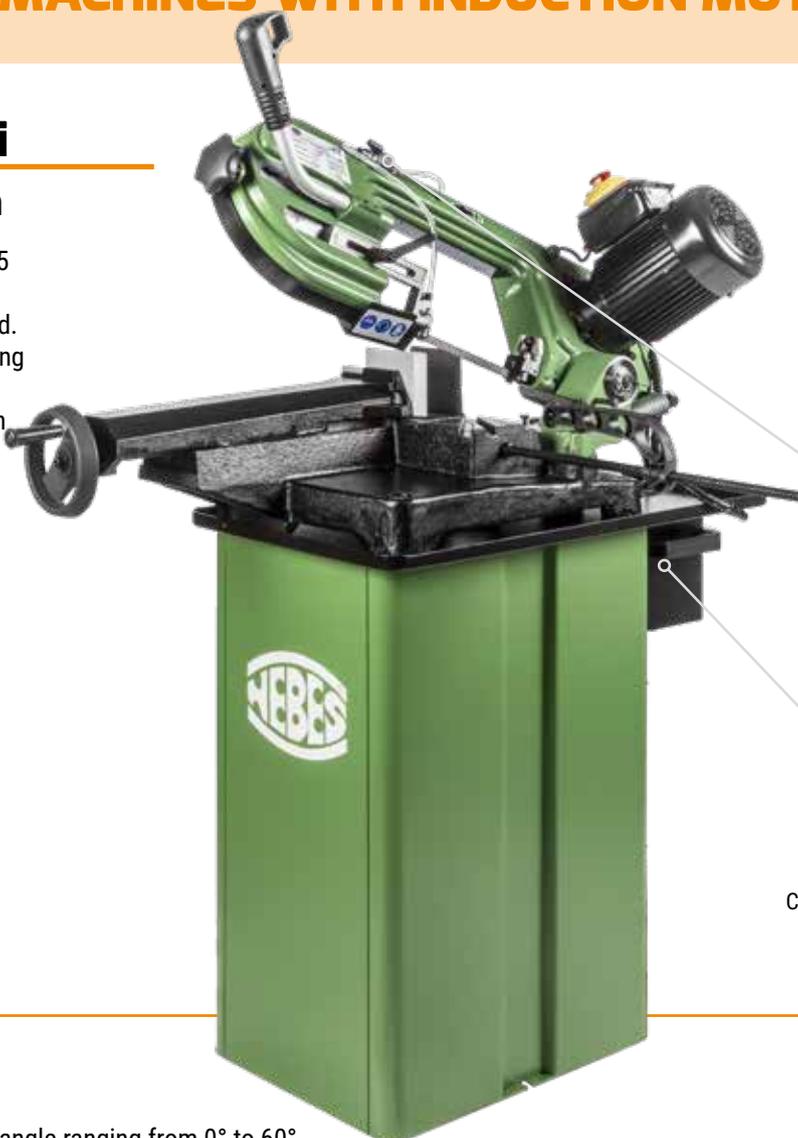


BAND SAW MACHINES WITH INDUCTION MOTORS

TM177 Lubri

Blade 1735 mm

Is the first saw with 1735 mm blade with cooling pump and stand included. Suitable for who is looking for a maximum saving without renounce to high performance.



Coolant tap



Cooling fluid collecting tank

- Cast iron structure
- Adjustable cutting angle ranging from 0° to 60°
- Cast iron and over-dimensioned piece blocking vice and base
- Wheel handle for rapid vice tightening
- Adjustment of blade's vertical lowering by eccentric ring nut with double conic bearing
- Spring return of adjustable head
- Supply with electric pump for blade lubrication and refrigeration and 5L fluide collecting tank.

Cutting capacity		0°	45°	60°
Round	○	∅ 150 mm	∅ 100 mm	∅ 60 mm
Square	□	140x140 mm	100x100 mm	60x60 mm
Rectangular	▭	140x150 mm	100x140 mm	60x75 mm



Art.	Hp*	W*	TOOTH PITCH pas Z	VELOCITÀ TAGLIO	SIZE Blade mm	WEIGHT NET	WEIGHT GROSS Pallet	DIMENS. cm
TM177 LUBRI	0,75 - 1~	550	8/12	70	1735x13x0,90	91	98	97x46x81

** Please note these machines are equipped with permanent magnets motor: so, the effective electrical consumption (watt) is 50% less than the nominal motor power indicated.

Spare blades: 1735x13x0,90 - MINIMUM QUANTITY 5 PCS



INDUCTION



GARANZIA WARRANTY

BAND SAW MACHINES WITH INDUCTION MOTORS

TM210 Single Phase - Three Phase

Blade 2080 mm

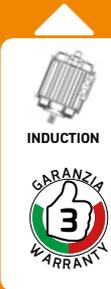
Is the first saw with 1735 mm blade with cooling pump and stand included.



Single Phase



Three-Phase



- Cast iron structure
- Adjustable cutting angle ranging from 0° to 60°
- Cast iron and over-dimensioned piece blocking vice and base
- Wheel handle for rapid vice tightening
- Adjustment of blade's vertical lowering by eccentric ring nut with double conic bearing
- Spring return of adjustable head
- Supply with electric pump for blade lubrication and refrigeration and 5L flude collecting tank.

Cutting capacity		0°	45°	60°
Round	○	∅ 185 mm	∅ 120 mm	∅ 60 mm
Square	□	180x180 mm	100x100 mm	60x60 mm
Rectangular	▭	200x140 mm	100x100 mm	60x60 mm



mm



Art.	Hp*	W*	TENSIONE	TOOTH PITCH pas Z	VELOCITÀ TAGLIO	SIZE Blade mm	MAX AP.	WEIGHT NET	WEIGHT GROSS Pallet	DIMENS. cm
TM 210 TF	0,8-1,2 - 3~	600/900	400/230	6/10	41/82	2080x20x0,90	205	185	198	85x125x110
TM 210 MF	0,6-0,8 - 1~	450/600	230	6/10	41/82	2080x20x0,90	205	185	198	85x125x110

Spare blades: 2080x20x0,90 - MINIMUM QUANTITY 5 PCS

BAND SAW MACHINES WITH INDUCTION MOTORS

TM275 CD

Blade 2450 mm

Recommended for intensive works, maintaining and increasing blade life, thanks to the hydraulic brake.



Hydraulic Brake



Manometer



Handle with fast approach button



Ignition commands

- Cast iron structure
- Adjustable cutting angle ranging from 0° to 60°
- Vise, bench and arc completely made of cast iron
- Electric pump for lubrication and blade cooling
- Oil-bath blade tensioning manometer
- Two cutting speed on ignition commands
- Pushbutton for fast workpiece approach**
- Water cooling system
- Adjustable cutting head downfeed speed
- TCT blade holders



Cutting capacity		0°	45°	60°
Round	○	∅ 220 mm	∅ 150 mm	∅ 90 mm
Square	□	200x200 mm	150x150 mm	90x90 mm
Rectangular	▭	230x185 mm	150x200 mm	90x120 mm



mm



Art.	Hp*	W*	TENSIONE	PASSO Z	VELOCITÀ TAGLIO	SIZE Blade mm	MAX AP.	WEIGHT NET	WEIGHT GROSS Pallet	DIMENS. cm
TM 275 CD	1,0/1,3 - 3~	750/975	400 ∅ 230	5/8	46/92	2450x27x0,90	230	245	266	84x145x104

Spare blades: 2450x27x0,90 - MINIMUM QUANTITY 5 PCS



BAND SAW MACHINES WITH INDUCTION MOTORS

TM275

Blade 2450 mm

Thanks to the dowfeed speed control TM 275 CD the life of the blade will be much longer. Suggested for intensive usage.



Quick closing lever



Ignition commands



Motor



Blade Guide fixed



- Cast iron structure
- Adjustable cutting angle ranging from 0° to 60°
- Vise, bench and arc completely made of cast iron
- Water cooling system
- Adjustable cutting head downfeed speed
- Oil-bath blade-tensioning manometer
- Deviator for cooling pump shutoff
- Rail guide with hard metal guide blocks



Cutting capacity		0°	45°	60°
Round	○	∅ 220 mm	∅ 150 mm	∅ 90 mm
Square	□	200x200 mm	150x150 mm	90x90 mm
Rectangular	▭	230x185 mm	150x200 mm	90x120 mm



Art.	Hp*	W*	TENSIONE	PASSO Z	VELOCITÀ TAGLIO	SIZE Blade mm	MAX AP.	WEIGHT NET	WEIGHT GROSS Pallet	DIMENS. cm
TM 275	1,0/1,3 - 3~	750/975	400 o 230	6/10	46/92	2450x27x0,90	230	244	264	84x145x104

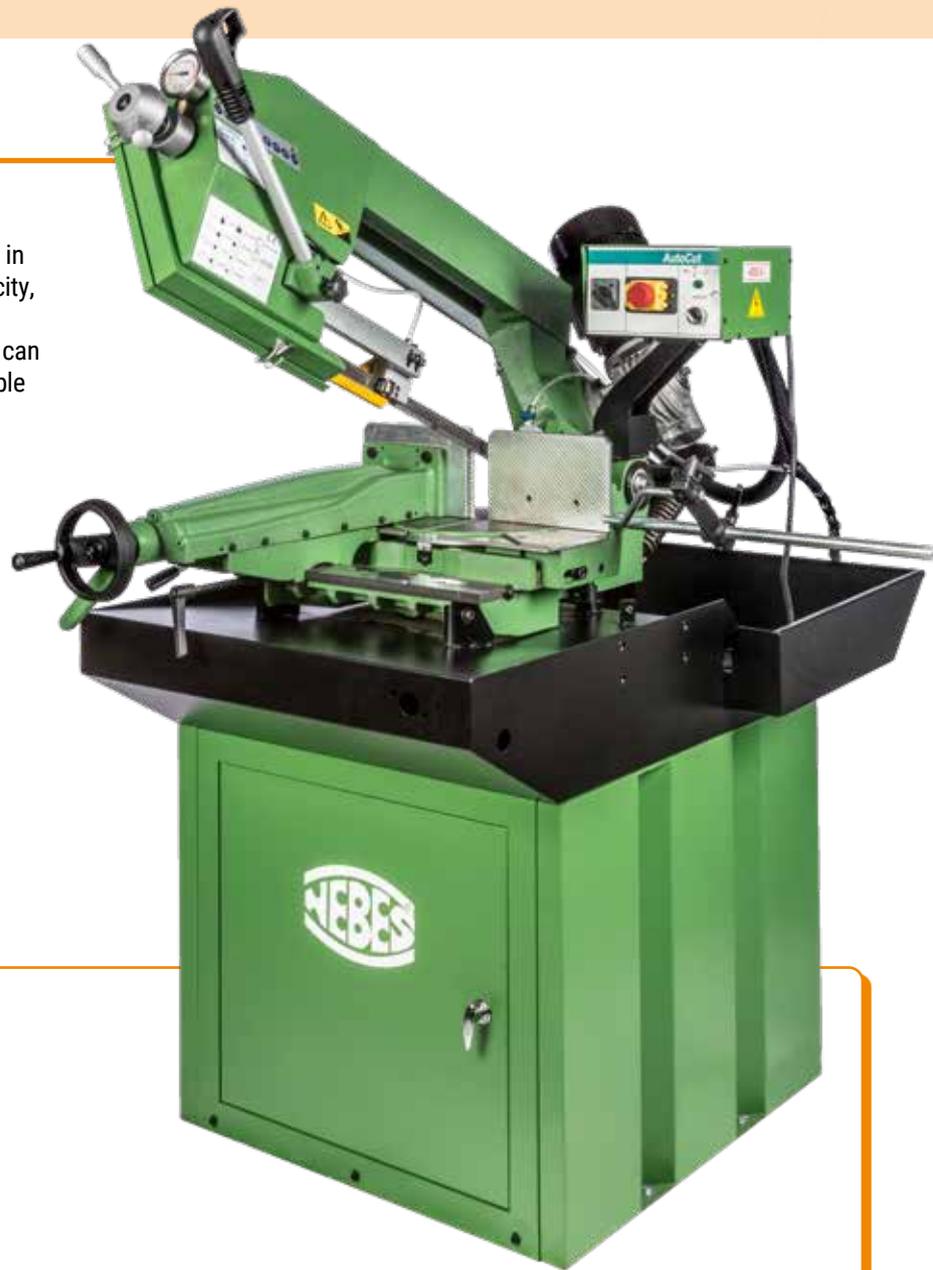
Spare blades: 2450x27x0,90 - MINIMUM QUANTITY 5 PCS

BAND SAW MACHINES WITH INDUCTION MOTORS

TM300

Blade 2965 mm

Recommended for all those users that, in addition to the maximum cutting capacity, look for an industrial band saw that is suggested for intensive usage. TM300 can handle continuous workloads on multiple materials.



Technical data TM300 and TM310

- Cast iron structure
- Stop bar
- Adjustable cutting angle from 0° to 60° on left and from 0° to 45° on right
- Overdimensionated vice and vice wheel
- Possibility to cut on right and left side
- Lubrorefrigerating pump included
- Rail guide with hard metal guide blocks
- Double speed induction motor
- Micro switch for blade tensioning
- Adjustable stop bar and cleaning blade brush
- Possibility to add 2 meter roller table
- Manual band saw with possibility to cut on right and left side
- Quick clamping lever system
- Micro switch for blade tensioning

Technical data only TM310

- Lock-out device for quick replacement of the vice
- Hydraulic unit for vice control
- Control panel easily accessible
- Removable collection tank
- Semi-automatic band saw
- Possibility to cut on right and left side
- Hydraulic clamp
- Blade effort sensor
- Turntable
- Unlocked clamp for fast turning
- Potentiometer for setting the diameter of the piece to be cut

BAND SAW MACHINES WITH INDUCTION MOTORS

TM310

Blade 2910 mm

SEMIAUTOMATIC

Recommended for all those users that, in addition to the maximum cutting capacity, look for an industrial band saw that is suggested for intensive usage. This machine, in addition to model TM300 have hydraulic clamp and automatic cutting cycle:

- 1) Clamp get open and closed automatically
- 2) You can adjust cutting speed at the beginning of the cut
- 3) Machine cut and come back to starting position
- 4) Motor stop + opening of the clamp



Cutting capacity		0°	45°	60°	-45°
Round	○	ø 260 mm	ø 240 mm	ø 160 mm	ø 190 mm
Square	□	255x255 mm	215x215 mm	130x130 mm	190x190 mm
Rectangular	▭	295x230 mm	225x215 mm	160x130 mm	190x190 mm



Art.	Hp*	W*	TENSIONE	VELOCITÀ TAGLIO	SIZE Blade mm	MAX AP.	WEIGHT NET	WEIGHT GROSS Pallet	DIMENS. cm
TM 300	1,6 - 3~	1200	400	38/76	2965x27x0,9	300	310	317	160x80x170
TM 310	1,6 - 3~	1200	400	38/76	2910x27x0,9	300	420	437	160x75x170

Spare blades: 2965x27x0,9 - MINIMUM QUANTITY 5 PCS



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