



CATALOGUE
INDUSTRY



EN

INDUSTRY





MEP GROUP

The MEP Group today represents the latest stage in the evolution of the know-how, technology and values that MEP has developed over a period of 50 years.

The MEP Group is present on all major markets and is a leader in those of most importance. The group has production plants in Italy, Canada, the USA and China which produce around 12,000 machines a year. MEP products are sold in over 50 nations around the world thanks to close collaboration with highly qualified local distributors and/or directly controlled subsidiaries (China and Brazil).

The MEP Group's extensive product range satisfies the needs of a wide variety of customers. The range includes manual, numeric control, semi-automatic and fully automatic machines with cutting capacities of up to 1500 mm.



HYDMECH LTD (CANADA)

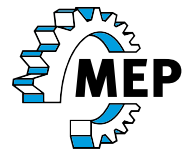
HYDMECH INC. (USA)

MEP SPA (ITALY)

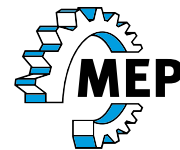
MEP DO BRASIL LTDA (BRAZIL)

MEP AROUND THE WORLD

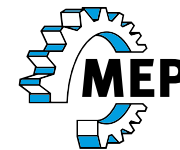
MEP (SUZHOU) CO. LTD
(PR. CHINA)



MEP SPA
Pergola (PU)
Italy



MEP DO BRASIL LTDA.
San Paolo - SP
Brazil



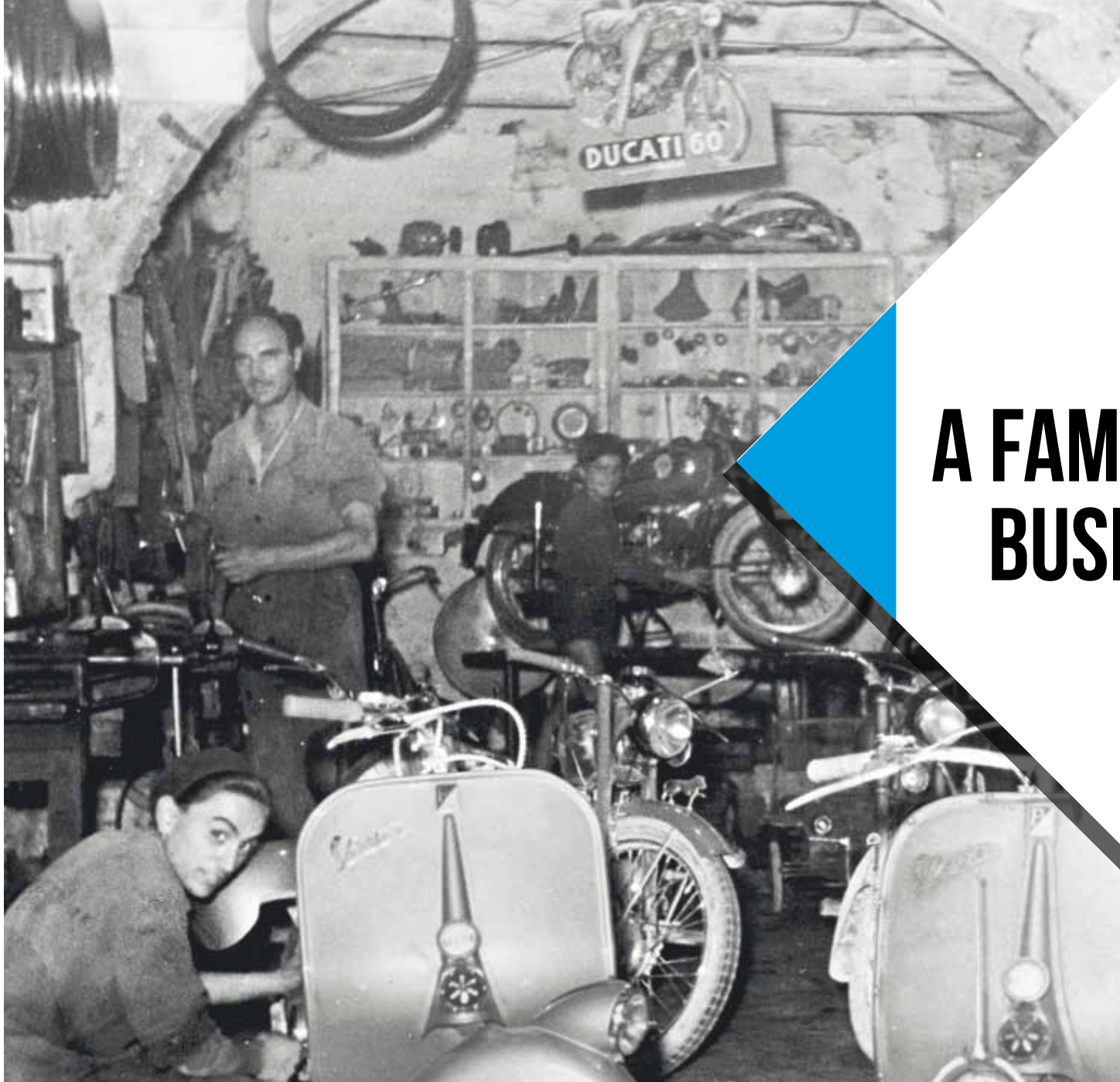
MEP (SUZHOU) CO. LTD
Suzhou
P.R. China



HYDMECH
Woodstock, ON
Canada



HYDMECH INC.
Conway, AR
USA



WORKSHOP Enzo Magnani 1959

A FAMILY BUSINESS



The TV 300 was MEP's first series-made abrasive disc cutting machine.

MADE WITH COMMITMENT AND PASSION

The MEP Group has firm roots in one of the many entrepreneurial families that thrive in a region rich in hard-working people, history and art.

It all began in a small workshop in the historical centre of Pergola, a town in the province of Pesaro-Urbino, in the Marche region of Italy.

Enzo Magnani began his career as a mechanic, exploiting the skills he had acquired with British and American forces based in Italy during the Second World War. The ingenuity he showed in his small workshop led to the creation of the first sawing machine, which proved so efficient that it was soon being ordered by small companies working in neighbouring towns. The business really began to expand when Enzo invited his son Ezio, still a young man, to join him.

Ezio, supported on the organisation side by Giampaolo Garattoni, another new partner, began boosting sales and also took over the technical development of products and processes, becoming a key figure for all involved.

Unfortunately, Enzo Magnani passed away at the age of only 52, and never saw the many future achievements of the company he had started.

His death was untimely indeed because the company was just beginning its journey down a road that would see it expand from a local business to a major global competitor, acquiring and forming various other companies to create the MEP Group.



ENZO MAGNANI



EZIO MAGNANI

LEGEND



cutting mode AUTOMATIC



cutting mode SEMI-AUTOMATIC



cutting mode SEMI-AUTOMATIC DYNAMIC



cutting mode MANUAL



ELECTROHYDRAULIC



ELECTROPNEUMATIC



ELECTROMECHANIC



BANDSAWING MACHINES



SHARK 310 CNC HS 4.0	03
SHARK 420 CNC HS 4.0	05
SHARK 640 CNC HS 4.0	07
SHARK 422 SXI evo	09
SHARK 512 CCS hydra	11
SHARK 512 SXI evo	13
SHARK 652 SXI H 5.0	15

VERTICAL SAWING MACHINES FOR METALS



TIGER 372 CNC LR 4.0	17
TIGER 402 CNC HR 4.0	19

LOADING MAGAZINE



CB 6001	21
---------	----

OPTIONALS	23
TECHNICAL FEATURES	29



SHARK

310 CNC HS 4.0

Shark 310 CNC HS 4.0, automatic double-column bandsaw for 0° cuts on structural, stainless and alloy steels, profiles and solid parts, with dimensions up to 310x310 mm.

- CNC machine with a new controller: MEP 40. It has been specifically designed by MEP for the automation of its range of products.

- This sawing machine also features a semiautomatic cutting cycle and uses latest generation technologies; indeed, Shark 310 CNC HS 4.0 is equipped with a NEW controller with processor RISC 32 bit 200 MHz with integrated interface to:

- Install a GSM card (OPTIONAL) to send an SMS to the programmed number notifying the type of emergency occurred while the machine was operating unattended.

- Connect to an Ethernet network for the remote assistance service.










- Get software updates and changes by e-mail, that are transferred to USB port by SD or MMC card and later on the control memory, through the suitable slot on the control console.

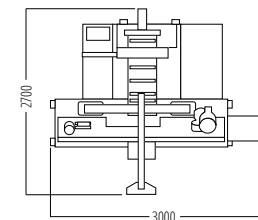
- Choose in the library (that can be extended by the user) the material type, geometry and hardness, the type of band to be used and the control automatically sets the feed rate and the band rotation speed.



OPTIONALS FROM PAG 23 - N° 01 - 02 - 03 - 04 - 17 - 18 - 19 - 20 - 25 - 29 - 48



											
mm	kW	mm	kW	l	kW	l	mm	mm	mm	kg	
15÷115	4,5	4640x34x1,1	0,75	7.3	2x0,18	230	315	0°	310	310	2200





OTHER FEATURES

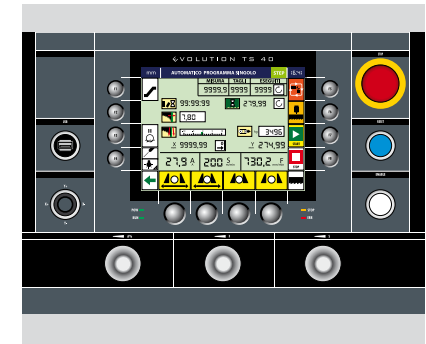
- The limits of the head stroke are programmed through the console, depending on the dimensions of the bars to be cut.
- CNC machine to store up to 300 cutting programs each with different quantity and length.
- Structure in sturdy cast iron, to absorb vibrations and give the machine a better cutting stability and longer blade life.
- Saw frame movement with hydraulic cylinder on linear guides with ball-recirculating pre-charged slides.
- Hydraulic power pack to supply the saw frame and the feeding and cutting vices.
- Infinitely adjustable cutting speed from 15 to 115 m/min by vector inverter.
- Bar feeder with recirculating balls screw/nut and stepper motor, for bars up to 3.000 kg. (feed in length in one stroke 600 mm, that can be repeated in order to cut any length).
- Minimum bar remnant of 120 mm in automatic operation. (OPTIONAL feeder jaws to reduce the remnant to min. 25 mm)
- Self-aligning feeder vice unit for feeding even strained bars.



- Driving pulley locked by conical clamping ring to ensure a strong fastening still allowing axial adjustment.
- Software to control/assess/correct in real time: - cutting force – cutting torque and band tensioning against the programmed values.
- Low voltage control panel installed on a rotating arm to reach the positions to operate safely still keeping the visual control.
- 8" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive with a self-learning feature, it guarantees a reliable use and it controls all cutting parameters in real time.
- Adjustable blade-guide heads in steel, with roller and carbide pads, coolant taps for the traditional lubrication and preset to install the mist lubrication (OPTIONAL).
- Idler pulley movement from the keyboard to replace the band easily.
- Automatic adjustment of the front blade-guide head according to the dimensions of the bars to be cut.
- Laser projector to position the bar accurately to carry out non-standard or facing cuts.
- Band rotation control with stop in real time in



- case of locked tool.
- Electro-mechanical servo-system for the blade dynamic tensioning.
- Coolant tank incorporated in the base.
- Two coolant pumps to ensure high cutting liquid quantities (120 l/min) to cool down the band and wash up chips from the working area, so as to guarantee a longer blade life.
- Wash gun to clean the working area.
- Blade brush.
- Chip tray, that can be replaced by an (OPTIONAL) motor-driven chip extractor.
- Sound and flashing indicator for machine shut-downs.
- Machine preset for being handled by lift truck.
- Bimetallic band for profiles and solid pieces.
- Service keys and instructions manual, for maintenance and spare parts list.





SHARK

420 CNC HS 4.0





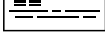




Shark 420 CNC HS 4.0, automatic double-column bandsaw for 0° cuts on structural, stainless and alloy steels, profiles and solid parts, with dimensions up to 420x420 mm.

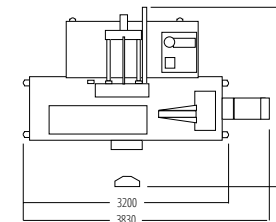
- CNC machine with a new controller: MEP 40. It has been specifically designed by MEP for the automation of its range of products
- This sawing machine also features a semiautomatic cutting cycle and uses latest generation technologies; indeed, Shark 420 CNC HS 4.0 is equipped with a NEW controller with processor RISC 32 bit 200 MHz with integrated interface to:
 - Install a GSM card (OPTIONAL) to send an SMS to the programmed number notifying the type of emergency occurred while the machine was operating unattended.
 - Connect to an Ethernet network for the remote assistance service.
 - Get software updates and changes by e-mail, that are transferred to USB port by SD or MMC card and later on the control memory, through the suitable slot on the control console.
 - Choose in the library (that can be extended by the user) the material type, geometry and hardness, the type of band to be used and the control automatically sets the feed rate and the band rotation speed.



OPTIONALS FROM PAG 23 - N° 01 - 02 - 03 - 04 - 20 - 21 - 22 - 51



											
mm	kW	mm	kW	l	kW	l	mm	mm	mm	kg	
15÷115	6,6	6100x41x1,3	1,5	60	2x0,18	285	430	0°	420	420	4250





OTHER FEATURES

- The limits of the head stroke are programmed through the console, depending on the dimensions of the bars to be cut.
- CNC machine to store up to 300 cutting programs each with different quantity and length.
- Structure in sturdy cast iron, to absorb vibrations and give the machine a better cutting stability and longer blade life.
- Saw frame movement with a brushless motor and with recirculating ballscrews-nut, with hydraulic compensation of the cutting head.
- The head movement by means the linear guides with ball-recirculating pre-charged slides.
- Hydraulic power pack to supply the feeding and cutting vices.
- Infinitely adjustable cutting speed from 15 to 115 m/min by vector inverter.
- Bar feeder with recirculating balls screw/nut and stepper motor, (feeding length in one stroke 600 mm, that can be repeated in order to cut any length).
- Self-aligning feeder vice unit for feeding even strained bars.
- Minimum bar remnant of 120 mm in automatic operation. (OPTIONAL feeder jaws to reduce the remnant to min. 25mm)
- Driving and idler pulley locked by conical clamping ring to ensure a strong fastening.



- Software to control/assess/correct in real time:
 - cutting force – cutting torque and band tensioning against the programmed values.
 - Low voltage control panel installed on a rotating arm to reach the positions to operate safely still keeping the visual control.
 - 8" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive, with a self-learning feature it guarantees a reliable use and it controls all cutting parameters in real time.
 - Adjustable blade-guide heads in steel, with roller and carbide pads, coolant taps for the traditional lubrication and preset to install the mist lubrication (OPTIONAL).
 - Idler pulley movement from the keyboard to replace the band easily.
 - Automatic adjustment of the front blade-guide head according to the dimensions of the bars to be cut.
 - Blade deviation device.
 - Laser projector to position the bar accurately to carry out non-standard or facing cuts.
 - Band rotation control with stop in real time in case of blade jammed.
 - Electro-mechanical servo-system for the blade dynamic tensioning.
 - Coolant tank incorporated in the base.



- Two coolant pumps to ensure high coolant flood (120 l/min) to cool down the band and wash up chips from the working area, so as to guarantee a longer blade life.
- Wash gun to clean the working area.
- Powered blade brush.
- Chip conveyor.
- Sound and flashing indicator for machine alarms.
- Machine preset for being handled also with lift truck.
- Bimetallic band for profiles and solid pieces.
- Service keys and instructions manual, for maintenance and spare parts list.





SHARK

640 CNC HS 4.0

Shark 640 CNC HS 4.0, automatic double-column bandsaw for 0° cuts on structural, stainless, alloy steels, profiles, solid parts and profiles with dimensions up to 640x640mm.

- CNC machine with a new controller: MEP 40. It has been specifically designed by MEP for the automation of its range of products

- This sawing machine also features a semiautomatic cutting cycle and uses latest generation technologies; indeed, Shark 640 CNC HS 4.0 is equipped with a NEW controller with processor RISC 32 bit 200 MHz with integrated interface to:

- Install a GSM card (OPTIONAL) to send an SMS to the programmed number notifying the type of emergency occurred while the machine was operating unattended.

- Connect to an Ethernet network for the remote assistance service.

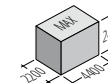
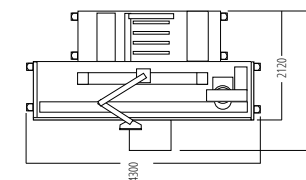
- Get software updates and changes by e-mail, that are transferred to USB port by SD or MMC card and later on the control memory, through the suitable slot on the control console.

- Choose in the library (that can be extended by the user) the material type, geometry and hardness, the type of band to be used and the control automatically sets: position of the cutting head, feed rate and the blade rotation speed.



OPTIONALS FROM PAG 23 - N° 1 - 2 - 3 - 4 - 20 - 40 - 46

mm	kW	mm	kW l	kW l	mm	0°	mm	mm	kg
15÷150	11	8400x54x1,6	3,7 72	2x0,57 340	670		640	640	7700



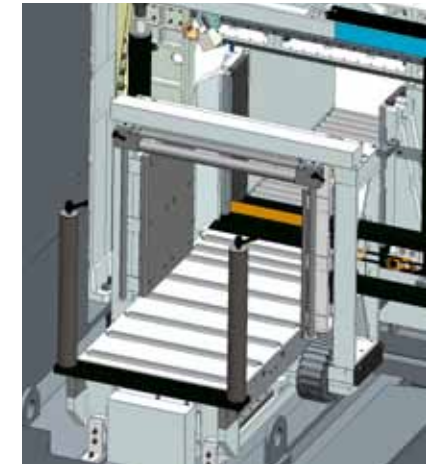


OTHER FEATURES:

- 8" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive, with a self-learning feature it guarantees a reliable use and it controls all cutting parameters in real time.
- Automatic acquisition of the actual starting point of the cut.
- CNC machine to store up to 300 cutting programs each with different quantity and length.
- Structure in sturdy cast iron, to absorb vibrations and give the machine a better cutting stability and longer blade life.
- Cutting head downfeed movement with 2 brushless motors and with recirculating ballscrews-nut, with hydraulic compensation of the cutting head.
- The cutting head movement is with linear guides and ball-recirculating pre-charged slides.
- Hydraulic power pack to supply the feeding vices, cutting vices and carbide pads.
- Infinitely adjustable cutting speed from 15 to 150 m/min by vector inverter.
- Bar feeder with recirculating balls, screw/nut and stepper motor, (feeding length in one stroke 760 mm or 30" that can be repeated in order to cut any length)

- Self-aligning feeder vice unit for feeding even strained bars.
- Rest piece that can no longer be in-fedded automatically by feeder: 70mm.
- Driving and idler pulley locked by conical clamping ring.
- Software to control/assess/correct in real time:
 - cutting force – cutting torque and band tensioning against the programmed values.
 - Control panel, with and adjustable frame, assembled on a rotating arm.
 - Adjustable blade guide blocks. This system, that guides the blade, is a combination of pre-charged rollers and carbide inserts.
 - Idler pulley movement from the keyboard to replace the band easily.
 - Automatic adjustment of the front blade-guide head according to the dimensions of the bars to be cut.
 - Blade deviation device.
 - Laser projector to position the bar accurately to carry out non-standard or facing cuts.
 - Band rotation control with stop in real time in case of blade jammed.
 - Electro-mechanical servo-system for the blade dynamic tensioning

- Coolant tank incorporated in the base.
- Blade cooling with lubricating oil by means of two coolant pumps. Each pump has a 120l/min flow rate.
- Wash gun to clean the machine.
- Powered blade brush.
- Chip conveyor.
- Sound and flashing indicator.
- Machine preset for being handled also with lift truck.
- Bimetallic band for profiles and solid pieces.
- Service keys and instructions manual, for maintenance and spare parts list.





SHARK

422 SXI EVO

Shark 422 SXI evo, semi-automatic, electro-hydraulic sawing machine, to cut from 45° left to 60° right.

- Machine with controlled single axis microprocessor with the latest generation of controllers for semi-automatic sawing machines designed by MEP.

- Semi-automatic cycle: starting the cycle: - the vice closes and the motor starts – the head goes down to execute cut – motor stops – head returns to top position and vice opens.

- These machines are extremely versatile (they can cut from 45° left to 60° right) despite their high cutting capacity (beams and solid pieces up to 420x300 mm at 0°) and have been designed to make the cutting preparation steps easy.

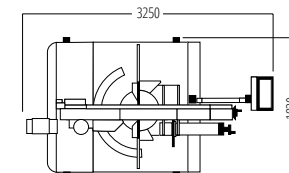
- CYCLE DOWN UP : Operating in semiautomatic cycle, the new function DOWN makes the head and blade motor stop once the cut is finished with the vice closed, by pressing the UP button the head raises back to its starting point and the vice opens.



OPTIONALS FROM PAG 23 - N° 01 - 02 - 03 - 07 - 09 - 10 - 11 - 12 - 23 - 26 - 28 - 31 - 50



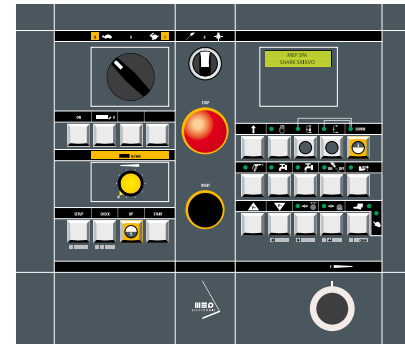
mm	kW	m/min	mm	Cutting Capacity			kg
				0°	45°	60°	
4640x34x1,1	3,0	15÷100	425	360	350	420x300	
				300	300	300x300	
				300	300	300x300	
				180	180	180x180	1570





A FEW FEATURES:

- Console with all centralized controls, installed on an articulated arm to follow the operator in every operating position for the controls and the EMERGENCY.
- Low voltage soft keyboard, in polyester, with thermo-shaped buttons, with tactile feeling and sound signal when operating.
- Display for the following messages: + diagnostic + alarms (cause description) + input and output status + cut counting + time spent for the cut made + blade motor absorption + blade tension + blade speed + numeric displaying of the head position.
- The limits of the head stroke are programmed through the control board, depending on the dimensions of the bars to be cut.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.
- The bar support with rollers, on the left of the cutting table, slides on linear guides with ball recirculation, so that it can be easily moved to cut up to the max. angles without any disassembly.
- Registered adjustable stops allow to stop and lock head rotation at angles of 0°- 45° left and 45°- 60° right.



- The head swivels on a rotating table with roller bearings.
- Dual stage bevel geared motor to grant the maximum performance in transmission.
- Electronic inverter for the continuous adjustment of the band speed from 15 to 100 m/min.
- Steel band guides with adjustable hard metal plates which can be opened so as to make the blade replacement easier.
- Manually-operated blade tensioning through electronic transducer.
- Vice with fast sliding approach, movable on linear guides with ball recirculation.
- Pair of electropumps for the blade lubrication and cooling.
- Coolant pistol to keep working surfaces clean.
- Coolant flow for chip conveying.
- Chip tray, that can be replaced by an OPTIONAL motorized chip evacuator.
- Movable head, manually operated through handwheel.
- Preset to be equipped with spray mist system, as well as with the traditional lubrication with emulsible oil.



- Alarm with motor stop when the set absorption threshold is exceeded.
- Machine arranged for handling with lifter and crane.
- Complete with bimetal band for profiles and solids.
- Service keys and instructions manual for maintenance and spare parts list use.





SHARK

512 CCS HYDRA

SHARK 512 CCS hydra, semi-automatic electro-hydraulic sawing machine with 4640x34x1,1 mm band, to cut pipes, profiles and beams up to 510x320 mm at 0°.

- Extremely versatile machine, for cuts between 60° left and 60° right.

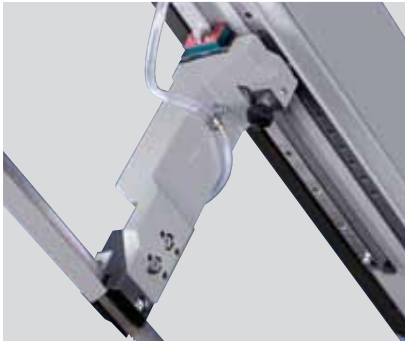
CUTTING CYCLE:









after having positioned the bar, starting the cycle the following operations are performed: vice closing - motor start - head descent for cutting - motor stop - head return - vice opening.

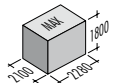
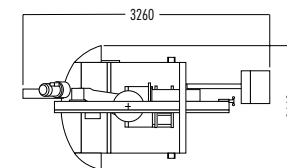
- CYLCE DOWN UP: Operating in semiautomatic cycle, the new function DOWN makes the head and blade motor stop once the cut is finished with the vice closed, by pressing the UP button the head raises back to its starting point and the vice opens.



OPTIONALS FROM PAG 23 - N° 01 - 02 - 03 - 12 - 41 - 42 - 43 - 44 - 45 - 49



									
	mm	kW	m/min	mm	kg				
512 CCS hydra	4640x34x1,1	4	15÷100	515	1190	0°	330	320	510x320
						45°	320	300	350x320
						60°	200	200	230x310
						45°	320	300	380x320
						60°	200	200	250x320





A FEW FEATURES:

- Console with all centralized controls, installed on an articulated arm to follow the operator in every operating position for the controls and the EMERGENCY.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.
- The headstroke, according to the dimensions of the material which has to be cut, is set directly from the control panel.
- Low voltage soft keyboard, in polyester, with thermo-shaped buttons, with tactile feeling and sound signal when operating.
- Display for the following messages: + diagnostic + alarms (cause description) + input and output status + cut counting + time spent for the cut made + blade



- motor absorption + blade tension + blade speed + numeric displaying of the head position.- Electronic inverter for the continuous adjustment of the band speed from 15 to 100 m/min.
- Rotating table, with etched accuracy graduation, tilting on a roller bearing with 280-mm diameter.
- Wide supporting surface for the max. safety and stability while cutting.
- The bar support with roller, on the left of the cutting table, slides on linear guide with ball recirculation, so that it can be easily moved to cut up to the max. angles without any disassembly.
- Hydraulic vice with fast sliding approach, movable on linear guides with ball recirculation.
- Manually-operated blade tensioning through electronic transducer.



- Vertical support of the movable head with manual adjustment, sliding on linear guide with ball recirculation.
- Wire chip brush.
- Electric pump for the band lubrication and cooling.
- Coolant pistol to keep working surfaces clean.
- Coolant tank inside the steel base and chip drawer.
- Machine arranged for handling with lifter.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.





SHARK

512 SXI EVO

SHARK 512 SXI evo, semi-automatic electro-hydraulic sawing machine with 4640x34x1,1 mm band, to cut pipes, profiles and beams up to 510x320 mm at 0°.

- Extremely versatile machine, for cuts between 60° left and 60° right.

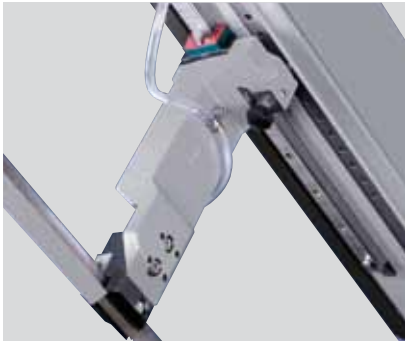
CUTTING CYCLE:









after having positioned the bar, starting the cycle the following operations are performed: vice closing - motor start - head descent for cutting - motor stop - head return - vice opening.

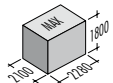
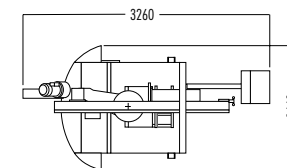
- CYLCE DOWN UP: Operating in semiautomatic cycle, the new function DOWN makes the head and blade motor stop once the cut is finished with the vice closed, by pressing the UP button the head raises back to its starting point and the vice opens.



OPTIONALS FROM PAG 23 - N° 01 - 02 - 03 - 07 - 11 - 12 - 28 - 31 - 41 - 42 - 43 - 44 - 45 - 49



									
	mm	kW	m/min	mm	kg				
512 SXI evo	4640x34x1,1	4	15÷100	515	1190	0°	330	320	510x320
						45°	320	300	350x320
						60°	200	200	230x310
						45°	320	300	380x320
						60°	200	200	250x320





A FEW FEATURES:

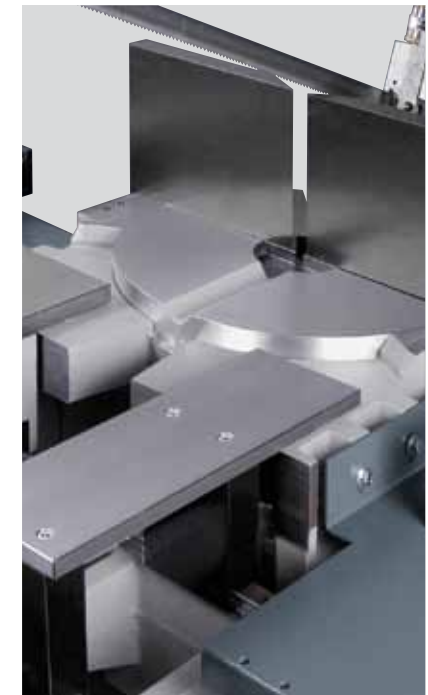
- Console with all centralized controls, installed on an articulated arm to follow the operator in every operating position for the controls and the EMERGENCY.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.
- The headstroke, according to the dimensions of the material which has to be cut, is set directly from the control panel.
- Low voltage soft keyboard, in polyester, with thermo-shaped buttons, with tactile feeling and sound signal when operating.
- Display for the following messages: + diagnostic + alarms (cause description) + input and output status + cut counting + time spent for the cut made + blade motor absorption + blade tension + blade speed + numeric displaying of the head position.- Electronic



- inverter for the continuous adjustment of the band speed from 15 to 100 m/min.
- Rotating table, with etched accuracy graduation, tilting on a roller bearing with 280-mm diameter.
- Wide supporting surface for the max. safety and stability while cutting.
- The bar support with roller, on the left of the cutting table, slides on linear guide with ball recirculation, so that it can be easily moved to cut up to the max. angles without any disassembly.
- Hydraulic vice with fast sliding approach, movable on linear guides with ball recirculation.
- Manually-operated blade tensioning through electronic transducer.
- Vertical support of the movable head with manual adjustment, sliding on linear guide with ball recirculation.
- Wire chip brush.



- Electric pump for the band lubrication and cooling.
- Coolant pistol to keep working surfaces clean.
- Coolant tank inside the steel base and chip drawer.
- Machine arranged for handling with lifter.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list





SHARK

652 SXI H 5.0

SHARK 652 SXI H 5.0, dual column electro-hydraulic band saw, equipped with blade 6700x41x1,3mm specifically designed to cut pipes and beams up to max 650x450mm at 0° and can miter from +60° up to -60°.

The machine is available in two versions both equipped with a simple touchscreen and the latest MEP controller which is designed exclusively for all our sawing machines.

- MANUAL POSITIONING (manual rotation of the head with a hand lever and a hydraulic brake to lock the head into position; the cutting angle is visualized on a display).

- AUTOMATIC POSITIONING (programming of the cutting angle from the electrical panel with automatic hydraulic locking system).

In the AUTOMATIC POSITIONING feature the cutting angle is determined by means of a gear/chain system and 2 cutting cycles are available.









A) AUTOMATIC CYCLE for cuts only at one angle

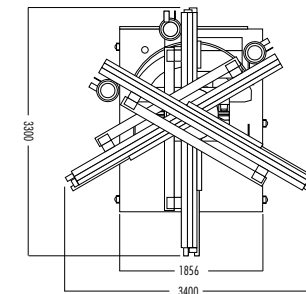
B) AUTOMATIC CYCLE for cuts with 2 angles programmed to be initiated alternatively.

To make the angle setting easier both versions A and B can be equipped with a pair of pop-up hydraulic rollers (one for the infeed and one for the outfeed). This avoids the material scraping onto the turn table when mitring (OPTIONAL).



OPTIONALS FROM PAG 23 - N° 01 - 02 - 03 - 04 - 29 - 36 - 37

									
	mm	kW	m/min	mm	kg				
652 SXI H 5.0	6700x41x1,3	9,3	15÷150	650	3300	0°	450	450	650x450
						45°	400	400	400x450
						60°	250	250	250x450
						45°	400	400	400x450
						60°	250	250	250x450





A FEW FEATURES:

- Structure in sturdy cast iron, to absorb vibrations and give the machine a better cutting stability and longer blade life.
- Powerful 9,3kw (15hp) blade motor with vectorial inverter in order to continuously adjust the blade speed in a single range from 15 to 150m/min.
- Powerful coolant flows to wash the cutting area and to convey chips away.
- Work light and laser projector to position the bar accurately in order to carry out non-standard or facing cuts.
- Saw head stroke by means of double hydraulic cylinders on linear guides with ball-bearings and pre-loaded slides (3° canted head to make the chip removal easier for horizontal walls).
- Self-adjustment cutting force by means of a servo valve mounted on the hydraulic cylinder.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.
- 7" touch screen which visualizes.

- Two hydraulic cutting vises to clamp the material on both sides and one vertical hydraulic cylinder.
- Automatic adjustment of the front guide arm in relation to the capacity that needs to be cut.
- Adjustable blade-guide heads in steel, with roller and carbide pads.
- Servo control to shift idler pulley for blade changing (2200 kg).
- Three coolant pumps to ensure high coolant flood (120 l/min) to cool down the blade and wash away chips from the working area.
- Powered blade brush.
- Belt chip conveyor (Optional).
- Machine can be handled with both lift truck and crane.
- BI-METAL band saw blade included.





TIGER

372 CNC LR 4.0

TIGER 372 CNC LR 4.0, automatic electromechanical vertical sawing machine with HSS blade which can operate also in semi-automatic mode, to cut steels from 45° right to 60° left.

OPTIONAL VERSION: TIGER 372 CNC LR 4.0 RB, with automatic rotating table 3 positions: 45°left, 0° and 45°right.

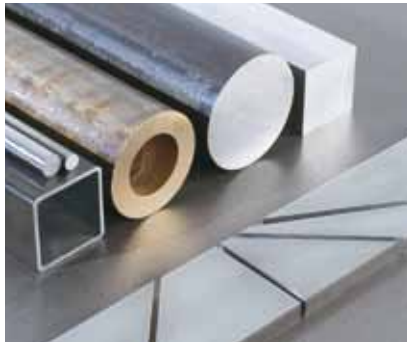
- CNC machine with controlled double axis multimicroprocessor to obtain, on the same bar or on the material located on the loading magazine CB6001 (OPTIONAL), up to 300 cutting programs each of different lengths and quantities.
- CB 6001 for high production for round square and rectangular bars up to the maximum cutting dimensions indicated on the brochure. The CB6001 must be ordered together with the machine.

A FEW FEATURES:

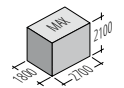
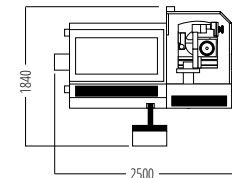
- Panel with low tension controls: polyester membrane keypad with tactile thermo-shaped buttons which give out an acoustic signal when pressed.
- 8" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive with a self-learning feature it guarantees a reliable use and it controls all cutting parameters in real time.



OPTIONALS FROM PAG 23 - N° 01 - 02 - 05 - 07 - 08 - 13 - 15 - 20 - 29 - 32 - 33 - 34 - 38 - 39 - 47



mm	kW	rpm	mm	0°	∅	○	□	▭	●	■	▬	kg
				45°	370	120	110	180x100	120	110	180x100	
HSS 372x32x3	5,5	15÷150	190	45°	370	115	100	120x100	70	70	70x70	1060
				60°	370	115	90	90x90	50	50	50x50	
				45°	370	115	100	120x100	70	70	70x70	

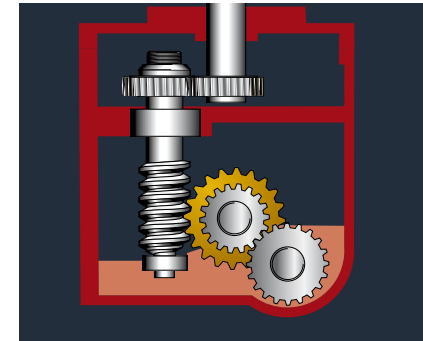
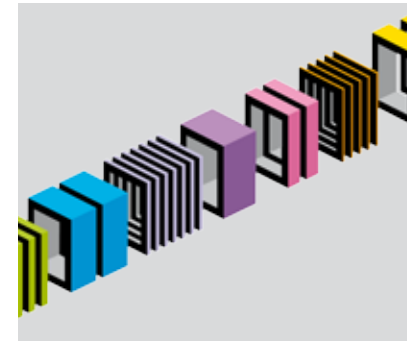


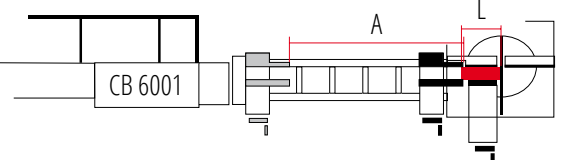


- The headstroke, according to the dimensions of the material which has to be cut, is set directly from the control panel.
- Transmission system at 3 stages so as to guarantee high sturdiness, precision and to obtain high removal capacities.
- Model with complete covering so as to reach 3 fundamental aims:
 - + operator's safety (during working cycles, access to cutting area is hindered by a timed opening system).
 - + Sound-proofness.
 - + Possibility to work with high quantity of cutting liquid (120 liters/min) to cool blade, to wash the working area continuously and to convey chips guaranteeing in this way longer blade life.
- Sawing head movement on double linear guides with preloaded slides with recirculating ballscrews.
- Head down stroke by means of electromechanical

- cylinder to obtain the maximum cutting rigidity and the automatic comparison of the data set/obtained and to correct cutting parameters in real time.
- Blade rotation with one speed motor with electronic speed variator so as to cut from 15 up to 150 rpm to obtain the best cutting efficiency.
- Wire chip brush for band cleaning.
- Rotation pin with preloaded thrust bearing to grant rotation precision and stability.
- Bar feeder has a length of 1000 mm and consists in a system given by screw/nut with recirculating ballscrews with stepper motor and vice with sideways movement so as to feed in also deformed bars.
- Pneumatic locking vice with adjustable steel gib.
- Pneumatic vertical vice.
- Special vice to reduce restpiece.
- Steel base with drawer to collect chips which can be replaced with a motorized chip evacuator (see

- optionals).
- Circular blade Ø 350 mm.
- Service keys and instructions manual for maintenance and spare parts list.



	A	L
	corsa alimentatore MAX mm	sfrido MAX mm
TIGER 372 CNC LR 4.0	1000	170
TIGER 372 CNC LR 4.0 + CB 6001	1000	180
TIGER 372 CNC LR 4.0 (RB + 45°- 0°- 45°)	900	270
TIGER 372 CNC LR 4.0 (RB + 45°- 0°- 45°) + CB 6001	900	280





TIGER

402 CNC HR 4.0

TIGER 402 CNC HR 4.0, automatic electro-pneumatic vertical sawing machine to cut aluminium and light alloys from 45° right to 60° left.

OPTIONAL VERSION: TIGER 402 CNC HR 4.0 RB, with automatic rotating table 3 positions: 45°left, 0° and 45°right.

- CNC machine with controlled double axis multimicroprocessor so as to obtain, on the same bar or on the material located on the loading magazine CB6001 (OPTIONAL), up to 300 cutting programs each of different lengths and quantities.












- CB 6001, for high production, for round, square and rectangular bars up to the maximum cutting dimensions indicated on the brochure. The CB6001 must be ordered together with the machine.

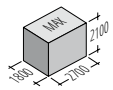
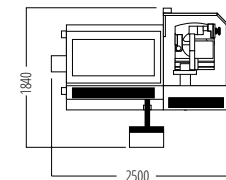
- TIGER 402 is completely covered to give safety to the operator (during working cycles, access to cutting area is hindered by a timed opening system) and for sound insulation.



OPTIONALS FROM PAG 23 - N° 01 - 02 - 06 - 07 - 08 - 14 - 16 - 20 - 27 - 30 - 33 - 34 - 35 - 38 - 39 - 47



					\emptyset				
mm	kW	rpm	mm						kg
HM 400x32	3,3/4,4	1400/2800	185	0°	400	130	120	180x100	1060
				45° 	400	115	100	120x100	
				60° 	400	115	90	90x90	
				45° 	400	115	100	120x100	





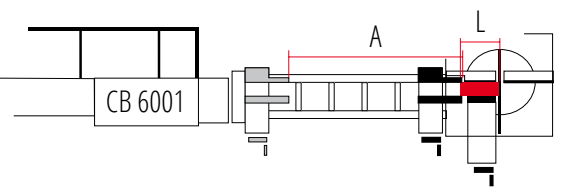
A FEW FEATURES:

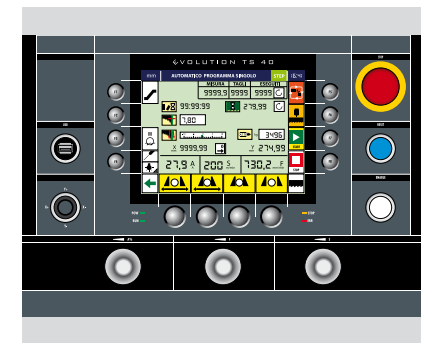
- 8" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive with a self-learning feature, it guarantees a reliable use and it controls all cutting parameters in real time.
- Panel with low tension controls: polyester membrane keypad with tactile thermo-shaped buttons which give out an acoustic signal when pressed.
- The headstroke, according to the dimensions of the material which has to be cut, is set directly from the control panel.
- Sawing head movement on double linear guide with preloaded slides with recirculating ballscrews.
- The headstroke, according to the dimensions of the material which has to be cut, is set directly from the control panel.
- Head down stroke by means of pneumatic cylinder with coaxial hydraulic brake to obtain the maximum cutting rigidity.
- Shearing stress control.
- Transmission system with serrated pulleys and belts.

- Blade rotation with 2-speed motor at 1400/2800 rpm.
- Automatic device to lubricate the blade only when the machine is cutting.
- Rotation pin with thrust bearing to grant rotation precision and stability.
- Bar feeder has a length of 1000 mm and consists in a system given by screw/nut with recirculating ballscrews with stepper motor and vice with sideways movement so as to feed in also deformed bars.
- Chip conveyor predisposed to mount optional chip collector.
- Pneumatic double locking vice.
- Pneumatic vertical vice.

- Indicator with flashing light in case cycle is stopped.
- Control and function system protected against in-going and/or out-going electrical and electromechanical phenomenon.
- Machine arranged for handling with movement equipment.
- Circular blade Ø 400 mm.
- Service keys and instructions manual for maintenance and spare parts list.



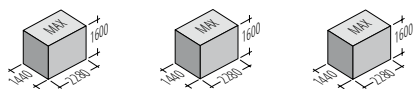
	A corsa alimentatore MAX mm	L sfrido MAX mm
TIGER 402 CNC HR 4.0	1000	260
TIGER 402 CNC HR 4.0 + CB 6001	900	275
TIGER 402 CNC HR 4.0 (RB + 45° - 0° - 45°)	1000	260
TIGER 402 CNC HR 4.0 (RB + 45° - 0° - 45°) + CB 6001	900	275



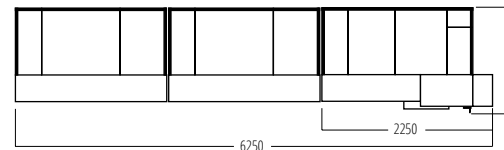


CB 6001

CB 6001 BAR CHUTE LOADING MAGAZINE 6000 MM FOR MEP SAWING MACHINE MODEL TIGER 372 CNC LR 4.0 and TIGER 402 CNC HR 4.0.
 CB 6001 - Since this unit has a maximum load of 2400 kg (8 bars of round solid with a diameter of 80 mm) we recommend to fix it to the floor so as to avoid even minimum unalignments.



bar	mm	kg	kW	mm	mm	mm	mm	mm	mm	kg
6	6000	2400	0,37	20÷100	20÷100	130x10÷100	20÷80	20÷80	130x10÷35	850





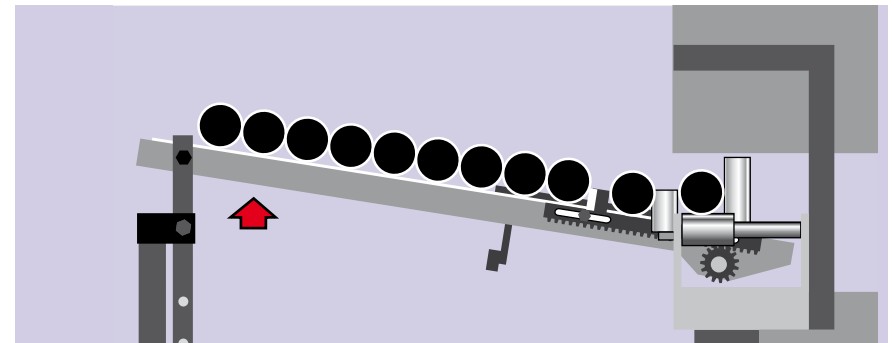
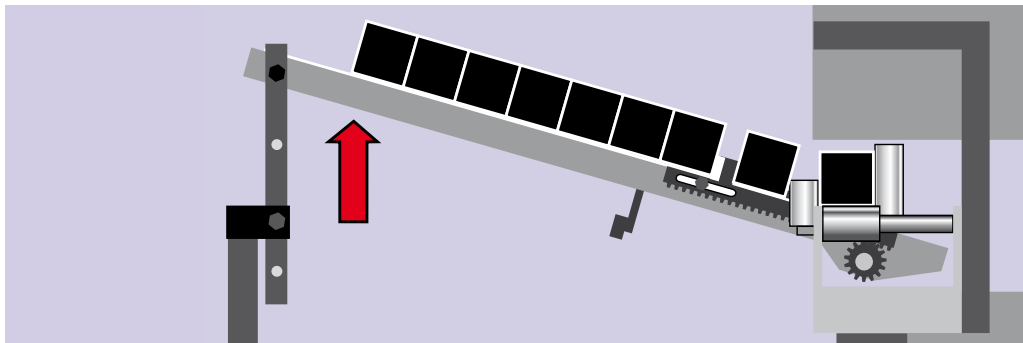
A FEW FEATURES:

- This accessory allows you to cut in sequence all the bars which are positioned onto the chute of the loading magazine and consequently the machine can work, even for a long time, without the presence of the operator.
- The CB 6001 has a 80-cm bed where the inclination can be regulated. It can be loaded till it is full with round, square and rectangular solids or sections up to the maximum dimensions indicated in the feature table.

- When a restpiece which cannot be cut remains in the machine, the loading magazine sends forward a new bar pushing out the restpiece. The new bar is positioned for the face cut which isn't counted on the cuts made.
- The CB 6001 has a sturdy tubular steel structure which is partially demountable for ease in transport.
- The transmission mechanisms (gears and racks), as well as the system to feed in bars individually, are made out of steel.
- The CB 6001 can be ordered together with the

sawing machine or afterwards, on condition that the machine has been ordered together with the accessory "equipped to mount CB 6001 w/vice to reduce restpiece".

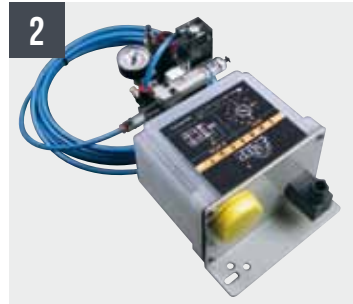
- The CB 6001 requires a 6 BAR air supply and the motor is powered by the controller of the sawing machine itself.
- Cutting materials which have a certain wall thickness generate also a lot of chips; for this reason, we recommend to equip the sawing machine with a motorized chip evacuator.



OPTIONALS



Emulsible oil Lt. 5



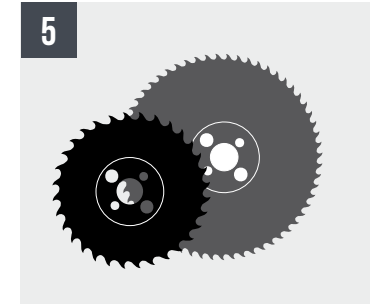
Spray mist system



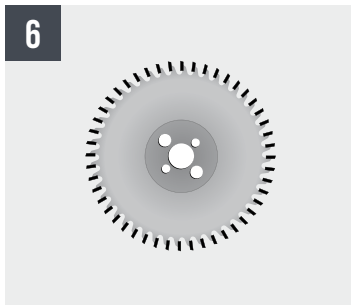
Bi-metal band



Band with electowelded hard metal plates



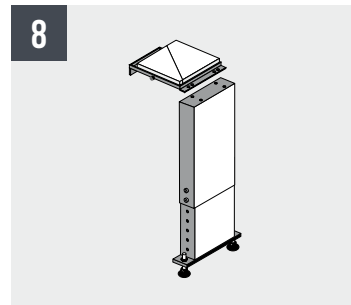
Circular blade HSS



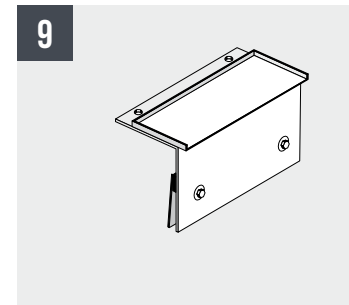
Circular blade HM



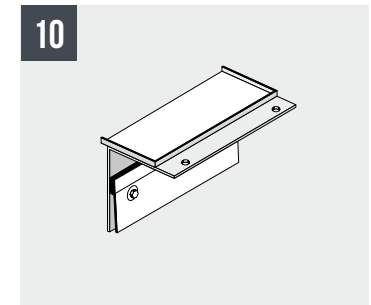
Supplementary foot pedal control w/
emergency stop



TIGER 372-402
Adapter for unloading table



SHARK 422
Adapter for unloading table



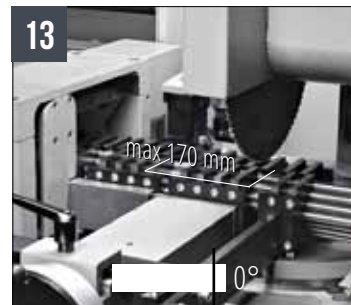
SHARK 422
Adapter for loading table



SHARK SXI evo
Hydraulic vice pressure adjuster



Shark 422/512
Laser projector + work light



TIGER 372 CNC LR 4.0 - Set of comb jaws
when equipped w/restpiece reduction min.
(max70x70mm)



TIGER 402 CNC HR 4.0 - Set of comb jaws
when equipped w/restpiece reduction min.
(max70x70mm)



TIGER 372 CNC Ir 4.0
Supplementary pneumatic vice



16 SHARK 420 CNC HS 4.0 - "set off" "comb jaws" in teflon for bundle cutting (max mm 75x75)



17 SHARK 310 CNC HS 4.0 - Hydraulic vertical vices for bundle cutting (max 310x310mm)



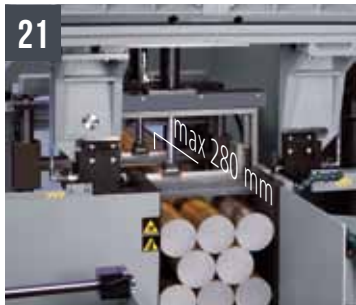
18 SHARK 310 CNC HS 4.0
Special vice to reduce restpiece



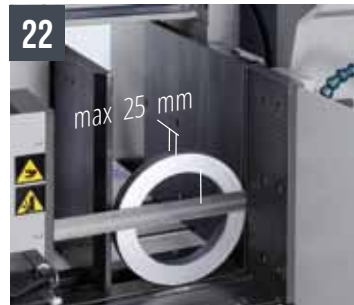
19 SHARK 310 CNC HS 4.0
Band deflection gauge



20 Gsm module



21 SHARK 420 CNC HS 4.0 - Hydraulic vertical vices for bundle cutting (max 400x400mm)



22 SHARK 420 CNC HS 4.0
Special vice to reduce restpiece



23 SHARK 422 SXI evo
Motorized wire chip brush



24 Two sets of vertical rollers for roller table
with covering K110



25 Two sets of vertical rollers for roller table
with covering K110 HD



26 Two sets of vertical rollers for roller table
with covering K250



27 Chip collector

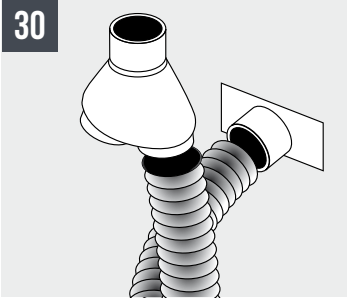


28 SHARK 422 SXI evo
Powered chip conveyor with supplementary coolant tank



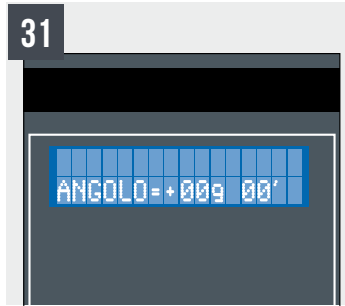
29 Powered chip auger

OPTIONALS



30

TIGER 402 CNC HR 4.0
Double suction system



31

SHARK 422 SXievo
Cutting angle displaying



32

TIGER 372 CNC LR 4.0 (Ø max 105 mm)
set of carbide guides



33

TIGER 372 CNC LR 4.0 / TIGER 402 CNC HR 4.0 Automatic head system with mechanical strokes adjustable in three position, 45° - 0° - 45°, equipped with special vices for reducing scraps.



34



35

TIGER 402 CNC HR 4.0
Special vice to reduce restpiece



36

SHARK 652 SXI H 5.0
Hydraulic pop-up roller left



37

SHARK 652 SXI H 5.0
Hydraulic pop-up roller right



38

CB 6001



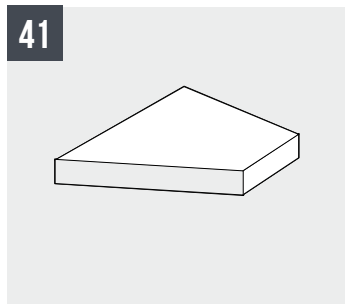
39

loading table for "comb jaws"
(componible modules 1500 mm)



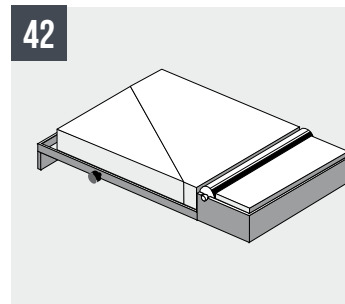
40

SHARK 640 CNC HS 4.0
Bar Feeder 3000 mm



41

SHARK 512 CCS hydra / SHARK 512 SXI evo
Special vice to reduce restpiece



42

SHARK 512 CCS hydra / SHARK 512 SXI evo
Adapter for loading table

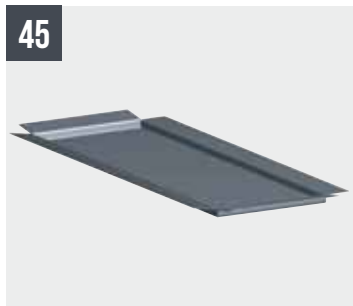


43

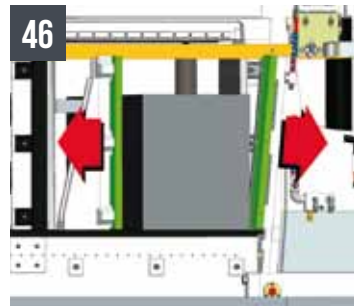
SHARK 512 CCS hydra / SHARK 512 SXI evo
kit 1 Vertical roller



44 SHARK 512 CCS hydra / SHARK 512 SXI evo
Two sets of vertical rollers



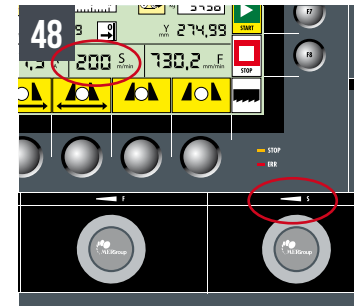
45 SHARK 512 CCS hydra / SHARK 512 SXI evo
Recovery Coolant tank



46 SHARK 640 CNC HS 4.0
Cutting vice with back retract jaw



47 SHARK 640 CNC HS 4.0
Morsa allineamento barre



48 SHARK 310/420 CNC HS 4.0
Kit velocità lama 15÷200 m/min

FLIP OVER STOPS' MODELS



	K40	K110HD	K230	K250	K300
R1	●				
R2	●		●		
R3	●		●		



R1 FLIP OVER STOP (light version): it can be mounted on K40 and K110 roller tables offside.
 - It can be raised so as to move the bar along.
 - It slides on two aluminium guides with teflon slides.
 - The rod is engraved on an aluminium bar.



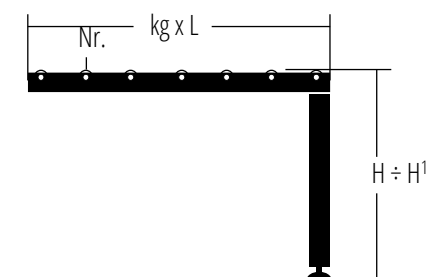
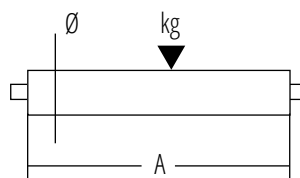
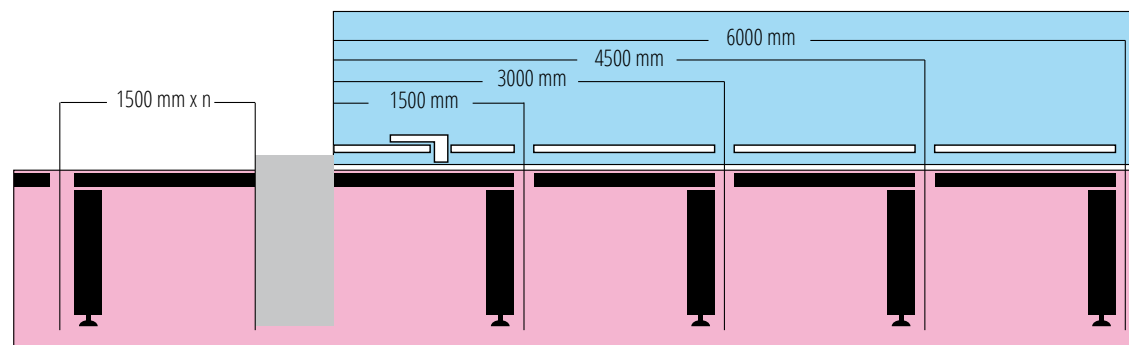
R2 FLIP OVER STOP (medium version): it can be mounted on K40, K110, K210 and K250 roller tables offside.
 - It can be raised so as to move the bar along.
 - It slides on two horizontal guides with teflon slides.
 - The rod is engraved on an aluminium bar.
 - Measure visualization enlarged by a magnifying glass.



R3 FLIP OVER STOP (strong version): it can be mounted K40, K110, K210 and K250 roller tables offside.
 - Made of casting and steel.
 - It can be raised so as to move the bar along.
 - It slides on a horizontal steel linear guide with recirculating ballscrews.
 - The rod is engraved on an aluminium bar.
 Measure visualization enlarged by a magnifying glass.

STOP AND MEASURING ROD

R1	R2	R3		
K40	K110HD	K230	K250	K300



MODELLO	∅ mm	kg	A	P	Nr. x L	kg x L	H ÷ H¹
K 40	24	40	190	245	7	280 X 1500	735 ÷ 1070
K 110 HD	50	250	340	371	6	1500 X 1500	840 ÷ 910
K 230	60	230	542	578	6	1380 X 1500	840 ÷ 940
K 250	60	250	430	500	6	1380 X 1500	755 ÷ 910
K 300	60	300	530	600	6	1800 X 1500	755 ÷ 910

ROLLER TABLES



49



K40

50



K110 HD

51



K 230

52



K250

53



K300

BANDSAWING MACHINES



	Minimum out of stock (in mm)	Minimum cutting length (in mm)	Speed of feeding vice (m/ min)	Max weight that the feeding vice can pull (kg)	Height of working table (mm)	Cutting capacity with overhead bundling (mm)	Capacity Of The Coolant Tank (Lt)	Capacity of the hydraulic tank (Lt)	Blade length (min/max)	Blade specification (mm)
SHARK 310 CNC HS 4.0	120	10	9	2720	870	310 X 310	230	73,5	4640 ±20 X 34 X 1,1	-
SHARK 420 CNC HS 4.0	120	10	9	2720	880	420 X 420	285	52,5	6100 ±20 X 41 X 1,3	-
SHARK 640 CNC HS 4.0	70	10	9	10000*	890	640 X 640	340	72,5	8400 ±20 X 54 X 1,6	-
SHARK 442 SXI evo	-	-	-	-	880	-	135	2,5	4640 ±20 X 34 X 1,1	-
SHARK 512 CCS hydra	-	-	-	-	880	-	200	2,5	4640 ±20 X 34 X 1,1	-
SHARK 512 SXI evo	-	-	-	-	880	-	200	2,5	4640 ±20 X 34 X 1,1	-
SHARK 652 SXI H 5.0	-	-	-	-	938	-	95	24,5	6700 ±20 X 41 X 1,3	-

VERTICAL SAWING MACHINES FOR METALS



TIGER 372 CNC LR 4.0	-	10	-	1360	1000	-	105	-	-	HSS Ø 370 X 32 X 3
TIGER 402 CNC HR 4.0	160		9	1360	1000	-	105	-	-	HM Ø 400 X 32 X 3,8

* 26" x 26" x 15' / 660mm x 660 mm x 3000 mm

GENERAL SALES CONDITIONS

1 - DEFINITIONS

"CGV": these general sales conditions, whose following terms shall have the meaning given below;

"Mep" and/or "company": Mep S.p.a. with administrative office in Pergola (PU);

"Customer": any company, body or legal entity purchasing Mep products;

"Products": goods produced and/or marketed by Mep;

"Order/s": each product purchase proposal sent to Mep by the customer;

"Sale/s": each sale contract closed between Mep and the customer following the written acceptance sent by Mep to the customer;

"Brands": all brands Mep is owner or licensee of;

"Intellectual property rights": all Mep intellectual and industrial property rights, registered or not, as well as any application or registration concerning these rights and any other right or protection.

"Conditions" mean all contract agreements, terms and conditions as a whole included in these General sales conditions (CGV).

2 - PURPOSES

2.1 These CGV apply to all product sales. In case of conflict between the conditions and terms of these CGV and the terms and condi-

tions agreed for a single sale, the latter shall prevail.

2.2 Mep reserves the right to add, modify or cancel any provision of these CGV, being it understood that all changes shall apply to the sales closed from the thirtieth day after the transmitted notice, also by e-mail or fax, by Mep to the customer.

3 - ORDERS AND SALES

3.1 Each sale shall be ruled exclusively by these mandatory CGV unless different agreements have already been signed between Mep and customer.

3.2 Orders shall be binding for Mep if accepted in writing with order confirmation, sent to the customer also by e-mail or fax.

3.3 Should the customer receive a written confirmation by Mep containing terms other than those included in the order, the sale shall be considered closed under the terms of the confirmation if the customer does not object to it within five days from receiving the order confirmation.

3.4 The company can immediately start fulfilling the received orders. The supply delivery to the carrier or shipping agent, together with the order acceptance notice, represents the start of the fulfillment, for the purposes and effects of art. 1327 of the Italian Civil Code.

4 - PRICES

4.1 The prices of the products, to be meant as VAT excluded, shall be those listed in the company price list in force when the order is forwarded, namely those indicated by the company in the single order confirmations for the products not included in the price list.

5 - DELIVERIES

5.1 Mep shall deliver the products ex works at his factories of Pergola, unless a different written agreement. If required, Mep shall entrust carriers with the transport at risk, costs and expenses of the customer.

5.2 The company may carry out the supply with partial deliveries; in this case, each delivery shall be considered as specific sale performance.

5.3 Possible irregularities or lacks in the supplies shall be claimed in writing to the carrier at the delivery and communicated to the company within max. three working days.

5.4 Within 20 days before the expected delivery date of the products the company and the customer can cancel or suspend the supply due

to force majeure or due to reasons out of control, with mutual exemption to damages, for example such as, but not limited to:

a) strikes, even partial, power cut-off, natural disasters, measures by public authorities, pro-

blems in transports, riots;

b) problems connected with the production or the order planning;

c) difficulty in getting raw material supplies.

In case of order cancellation by the customer of non-standard products, the company shall be entitled to receive the payment of what suitably realized till the communication was received.

6 - GUARANTEES

6.1 The company guarantees that each product complies with the specifications indicated in the catalogue, standard tolerance excepted.

6.2 The company can anyway modify the products, even without informing the customers, reasonably in their technical characteristics, design, materials and finishes as deemed necessary and/or suitable; the customer, therefore, cannot claim or reject, nor even partially, the supply due to such reasonable changes.

6.3 The company guarantees that the products are free of defects and/or faults for a period of one year from the date of delivery to the customer.

6.4 Possible defects or faults shall be communicated by the customer within thirty days from receiving the supply and/or discovering them, if hidden, otherwise the right lapses. Damages cannot be claimed to the company for possible delays in repairs and/or replacements within the two months after the communication.

6.5 The company's responsibility for the supplies of products and for their use is anyway limited to the cost for repairing faults and/or defects of the products or for replacing them.

6.6 Customers are not entitled to return products without a previous written authorization by the company.

6.7 The customer guarantees that the products shall be used according to the instructions of

the company and engages to inform all operators involved in their use that the company is ready and available to give all information aimed at the correct operation and safety of the products.

7 - PAYMENTS

7.1 The customer shall pay the invoices issued by the company for the collection of the performed supplies in compliance with the terms indicated in the order confirmation.

7.2 The company shall issue invoices for every product supply, even in case of partial supplies referred to the same order confirmation.

7.3 In case of delayed payment vs. the contract terms, the customer shall pay to the company default interests according to the Italian law decree of 9th October 2002 no. 231, as well as the refund of the collection costs.

7.4 For invoices issued with indication of payment instalments, failure to pay even a single instalment shall involve the automatic acceleration clause and the company shall be entitled to ask immediately for the whole credit, increased of default interests.

8 - PROPERTY RIGHTS

8.1 The customer cannot use the products or part of them or any description or drawing, even if not specifically protected by a patent or registered trademark, to design or manufactu-

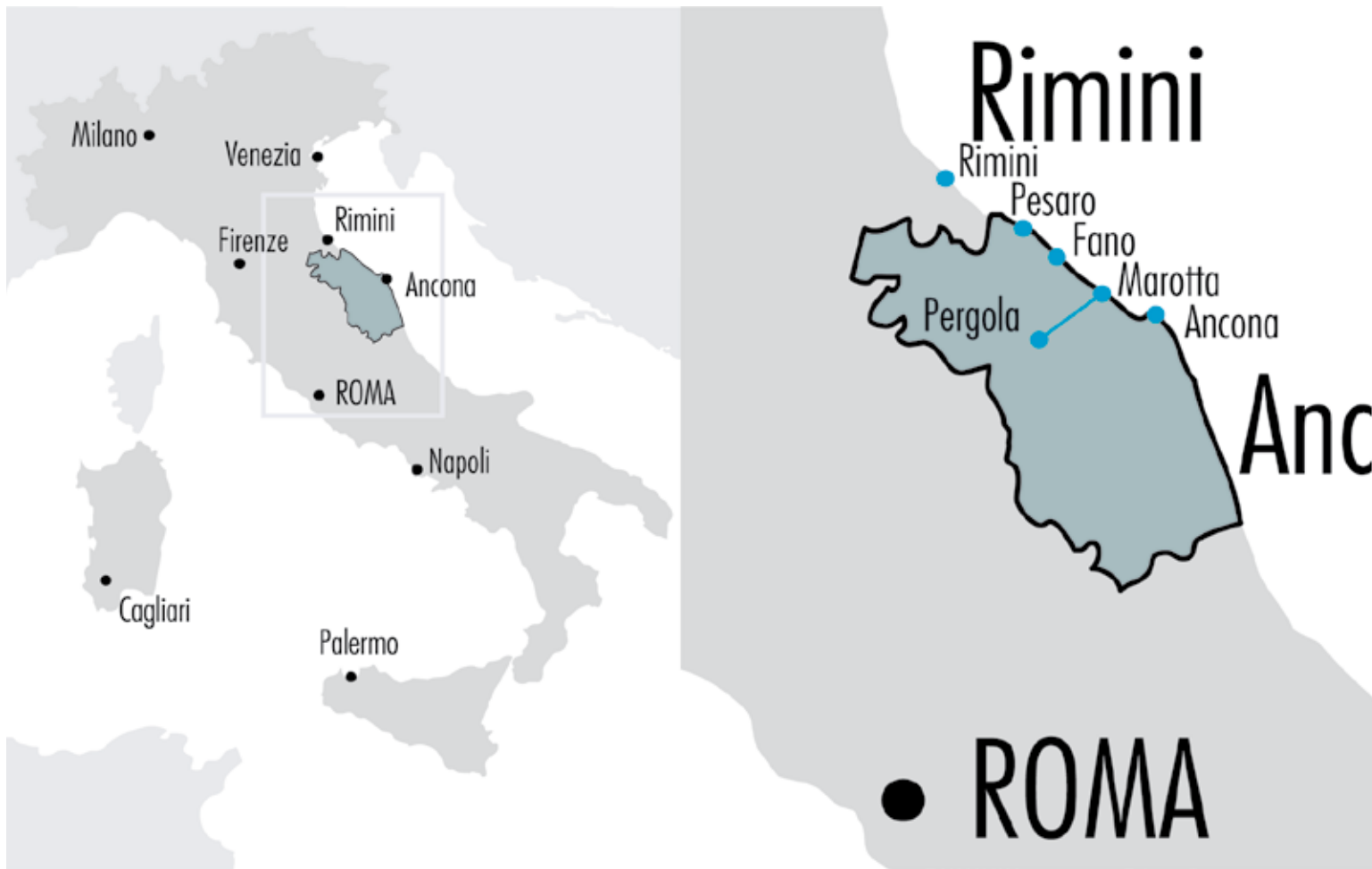
re similar products, unless he has obtained the previous written authorization by the company; in this case, too, all patents, registered designs, trademarks, copyrights and intellectual property rights concerning or connected with the products remain the full and exclusive property of the company and the customer shall adopt the strictest confidentiality accordingly.

9 - EXPRESS RESOLUTIVE CLAUSE

9.1 The company is entitled to cancel at any time, according to art. 1456 of the Italian Civil Code, by written communication sent to the customer, the sale/s in case of non-fulfillment of the obligations of articles : 6 (payments); 7 (intellectual property rights).

10 - APPLICABLE LAW - COMPETENT COURT

10.1 Any controversy arising on the closing, performance or resolution of the contract, or possible damage due to the products or their use, is ruled by the Italian law and subject to the Italian ordinary courts; by way of exception to any other law or conventional principle, the court of Pesaro - Fano detached department shall be exclusively competent as for territory.



WHERE TO FIND US

MEP SPA
 via Enzo Magnani, 1
 61045 Pergola (PU) Italy
 tel: +39 - 0721 - 73721
 fax: +39 - 0721 - 734533
 mepsa@mepsaws.it
 http://www.mepsaws.it

Capitale Sociale
 Eur 10.372.791,00 int. vers.
 Reg. Imprese Milano 13051480153
 Cod fiscale, partita IVA 13051480153

DEALER

The manufacturer reserves the right to carry out modifications without notice.



www.mepsaws.it

MEP SPA
PERGOLA ITALIA

Via Enzo Magnani, 1 - 61045 Pergola (PU) Italy

Tel: +39-0721-73721

E-mail: mepsa@mepsaws.it

PEC: mepsa@mepsaws.legalmail.it