

CATALOGUE **NETWORK**

EN

NETWORK





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)

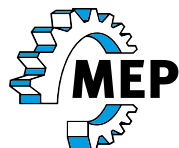
HYDMECH INC. (USA)

MEP SPA (ITALY)

MEP DO BRASIL LTDA (BRAZIL)

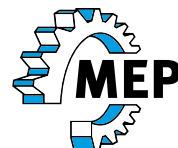
MEP AROUND THE WORLD

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



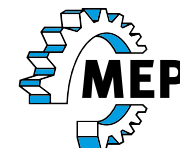
MEP SPA

Pergola (PU)
Italy



MEP DO BRASIL LTDA.

San Paolo - SP
Brazil



MEP (SUZHOU) CO. LTD

Suzhou
P.R. China



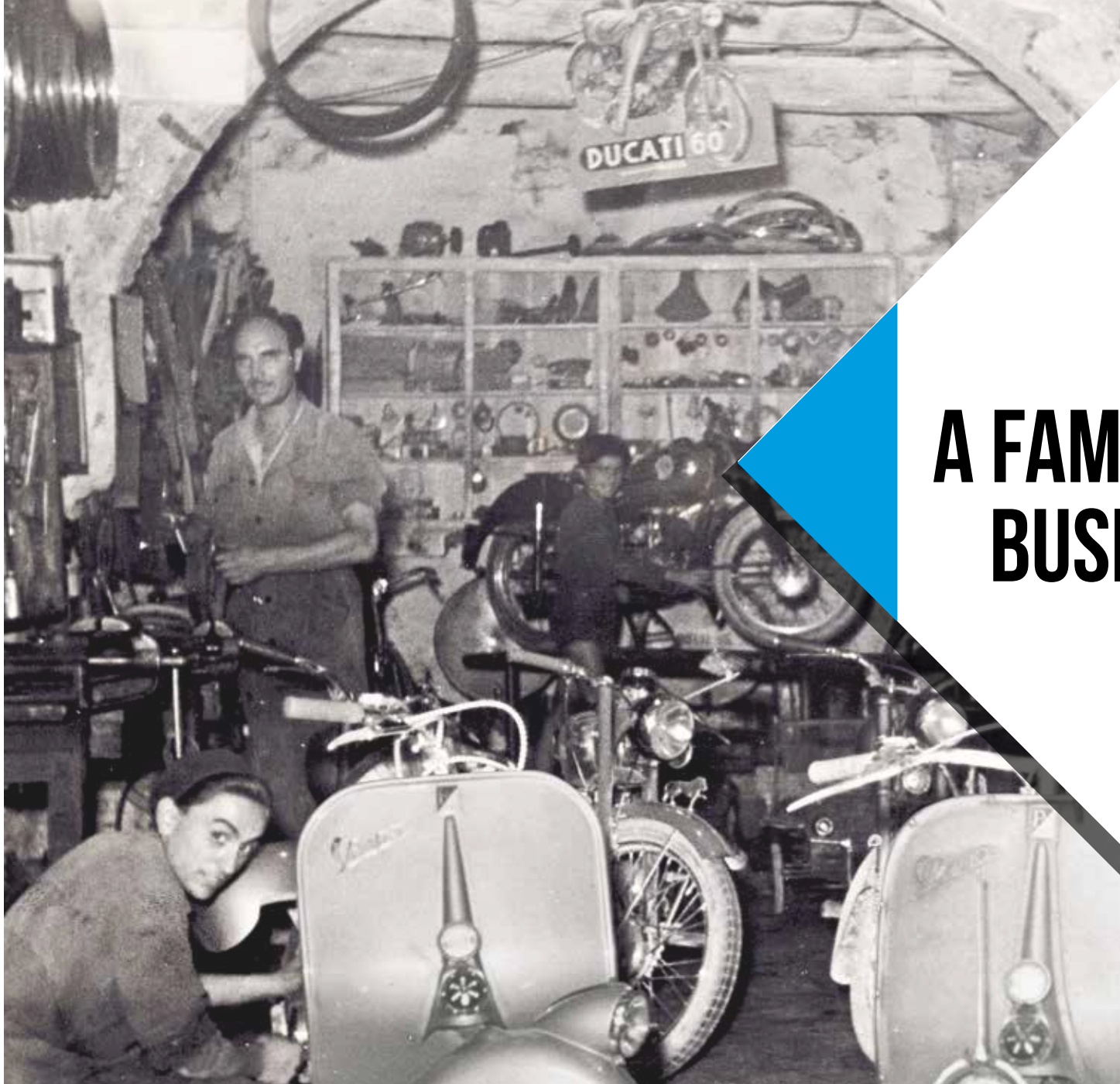
HYDMECH

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 CCS
	cutting mode MANUAL
	ELECTROHYDRAULIC
	ELECTROPNEUMATIC
	ELECTROMECHANIC

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BANDSAWING MACHINES



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PIVOT SAWING MACHINES FOR METALS

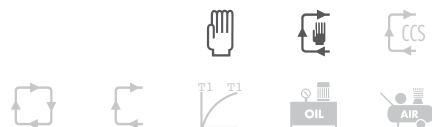


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PH 211-1/HB

The PH 211-1, manual band sawing machines for cuts from 0° to +60° are also supplied in a version with HB device to make single cuts without



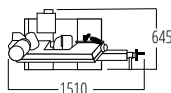
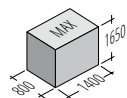
operators, still keeping the manual cutting cycle available (the HB device is available only in the three-phase version).

HB CUTTING CYCLE:











- After positioning the bar and closing the vice, the cutting phase is started, using the weight of the saw frame controlled by a hydraulic circuit to adjust the downfeed speed; after the cut the band stops, the frame is manually lifted in order to reposition the bar to cut until the position needed by the operator, at this point the head frame is locked by the manually-controlled hydraulic valve.

A FEW FEATURES:

- Sturdy structures in cast iron in order to tension the band at 700 kg.
- Electrical board with entirely identifiable wiring, stand-by, main switch with lock, short circuit protection, motor overload cutout, min. voltage coil, low voltage system 24 V.
- Control handle IP55.
- Driving pulley locked with clamp ring to ensure a strong fastening, still allowing axial adjustment.
- Blade-guide heads with 6 CARBIDE pads instead of bearings to ensure a better stability.
- Stop strokes at 0° and +60° with lever for locking at any intermediate angle.
- Head articulation with preloaded tapered bearings.
- Vice with fast locking lever.
- Electric pump for the band lubrication and cooling.
- Brush band-cleaning device.
- Bimetallic band for profiles and solid pieces.
- Instructions manual and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 04 - 27 - 28 - 71 - 79

									
mm	kW	m/min	kW	m/min	mm	0°	180	180	200x150
2130x20x0,9	0,75	80	0,70/0,81	40/80	200	+45°	115	110	125x110
						+60°	70	70	70x70
									kg
									190



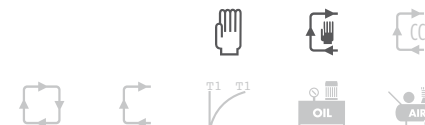
OPTIONALS FROM PAG 61 - N° 02 - 04 - 29 - 30 - 57 - 72 - 80

mm	kW	m/min	mm	0°	225	200	240x160	kg
2450x27x0,9	0,70/0,81	46/92	245	+45°	160	140	155x115	
				+60°	90	90	90x90	240



PH

261-1/HB



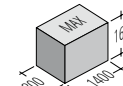
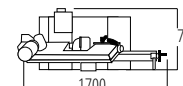
The PH 261-1, manual band sawing machines for cuts from 0° to +60°, are also supplied in a version with HB device to make single cuts without operators, still keeping the manual cutting cycle available.

HB CUTTING CYCLE:

- After positioning the bar and closing the vice, the cutting phase is started, using the weight of the saw frame controlled by a hydraulic circuit to adjust the downfeed speed; after the cut the band stops, the frame is manually lifted in order to reposition the bar to cut until the position needed by the operator, at this point the head frame is locked by the manually-controlled hydraulic valve.

A FEW FEATURES:

- Sturdy structures in cast iron in order to tension the band at 900 kg.
- Electrical board with entirely identifiable wiring, stand-by, main switch with lock, short circuit protection, motor overload cutout, min. voltage coil, low voltage system 24 V.
- Control handle IP55.
- Driving pulley locked with clamp ring to ensure a strong fastening, still allowing axial adjustment.
- Blade-guide heads with 6 CARBIDE pads instead of bearings to ensure a better stability.
- Stop strokes at 0° and +60° with lever for locking at any intermediate angle.
- Head articulation with preloaded tapered bearings.
- Vice with fast locking lever.
- Electric pump for the band lubrication and cooling.



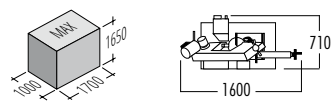


The PH 262, manual band sawing machines for cuts from -45° to $+60^\circ$ is also supplied in a version with Hydraulic Brake device (HB) to make single cuts without operator but keeping the manual cutting cycle available (the HB device is available only in the three-phase version).

A FEW FEATURES

- Sturdy structures in cast iron in order to tension the band at 900 kg.
- Wide working surface granting a perfect working condition and safety; turning table integral with saw head to cut at any angles without damaging the working surface
- Sliding vice with sideways movement and fast positioning system.










- Electrical board with entirely identifiable wiring, stand-by, main switch with lock, short circuit protection, motor overload cutout, min. voltage coil, low voltage system 24 V.
- Control handle IP55.
- Driving pulley locked with clamp ring to ensure a strong fastening, still allowing axial adjustment.
- Blade-guide heads with 6 CARBIDE pads instead of bearings to ensure a better stability.
- Mechanical stop at -45° , 0° and $+60^\circ$ with lever for locking at any angles in between.
- Head pivoting with preloaded tapered bearings.
- Electric pump for the band lubrication and cooling and Brush band-cleaning device.
- Bimetallic band for profiles and solid pieces.
- Instructions manual and spare parts list.



PH 262 - PH262 HB



OPTIONALS FROM PAG 61 - N° 02 - 04 - 18 - 19 - 57 - 72 - 80

								
				0°	225	200	240x160	
				$+45^\circ$	160	140	155x115	
				$+60^\circ$	90	90	90x90	kg
				-45°	145	125	150x100	265
mm	kW	m/min	mm					
2450x27x0,9	0,70/0,81	46/92	245					



PH 262 HB



PH 262 HB, other than the manual cut mode, the sawing machine can make single cuts without operator

HB CUTTING CYCLE:

- After positioning the bar and closing the vice, the cutting phase is started, using the weight of the saw frame controlled by a hydraulic circuit to adjust the downfeed speed; after the cut the band stops, the frame is manually lifted in order to reposition the bar to cut until the position needed by the operator, at this point the head frame is locked by the manually-controlled hydraulic valve.

A FEW FEATURES: See PH 262



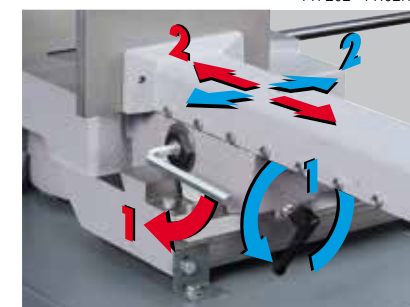
PH 262HB



PH 262 - PH62HB












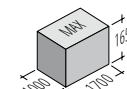
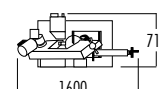
PH 262 - PH62HB



PH 262 - PH62HB

OPTIONALS FROM PAG 61 - N° 02 - 04 - 18 - 19 - 57 - 72 - 80

								
mm	kW	m/min	mm	0°	225	200	240x160	kg
2450x27x0,9	0,70/0,81	46/92	245	+ 45°	160	140	155x115	
				+ 60°	90	90	90x90	
				- 45°	145	125	150x100	265



SHARK 281

SHARK 281, manual band sawing machine to cut from 0° to +60°.

A FEW FEATURES:

- Electric panel (wiring totally identifiable, stand-by, loose-key safety switch, main switch, pole change switch, emergency stop, motor magneto-thermal overload, minimum tension coil, protection against missing phase, low tension safety device (LTSD 24 V).
- IP55 control handle.
- Vice with fast clamping device.
- Hydraulic transducer to visualize band tensioning.
- Electric pump for band lubrication and cooling.



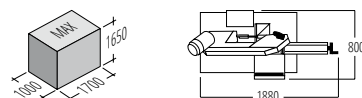
- Wire chip brush for band cleaning.
- Double head return spring.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Stock support arm with roller predisposed to mount loading table.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.
- The CUT CONTROL SYSTEM (CCS) can be retrofitted on machines out in the field.












SHARK 281/281CCS



SHARK 281/281CCS



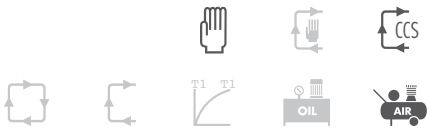
OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 07 - 09 - 16 - 34 - 57 - 72 - 80

								
				0°	250	230	280x200	
mm	kW	m/min	mm	+45°	190	180	180x180	kg
2950x27x0,9	1,5/1,8	36/72	285	+60°	120	110	110x110	375



SHARK

281 CCS/MA



SHARK 281 CCS (Cut Control System) manual bandsawing machine to cut from 0° up to +60°. Other than the manual cut mode, the sawing machine can make single cuts without operator, using the head weight controlled by a hydraulic brake: after the cut the band stops. The frame at this point is manually lifted to the position needed in order to reposition the bar to cut. In the version with pneumatic vice (MA) the vice is opened/closed by a manually-controlled valve (optional with pedal control).

A FEW FEATURES: See SHARK 281.



SHARK 281CCS












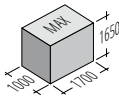
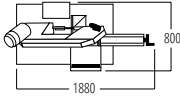
SHARK 281/281CCS



SHARK 281/281CCS

OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 09 - 16 - 34 - 57 - 72 - 80

								
mm	kW	m/min	mm	0°	250	230	280x200	kg
2950x27x0,9	1,5/1,8	36/72	285	+45°	190	180	180x180	
				+60°	120	110	110x110	375





SHARK

281 SXI EVO

SHARK 281 SXI evo, semi-automatic, electro-hydraulic band sawing machine for cutting from 0° to +60°.

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

OPERATION: starting the cycle by means of the relative push-button, the following steps are carried out: - the vice closes and the motor starts - the head goes down to execute cut - motor stops - head returns to top position and vice opens.

- Standard machine with operation in semi-automatic cycle only, that can be ordered with additional cutting cycles upon request (OPTIONAL): manual and semi-automatic dynamic cycle (semi-automatic dynamic cycle: lowering the head manually, so as to position it just above the material, the semi-automatic cycle starts by pressing trigger switch on handle).

- 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.





A FEW FEATURES:

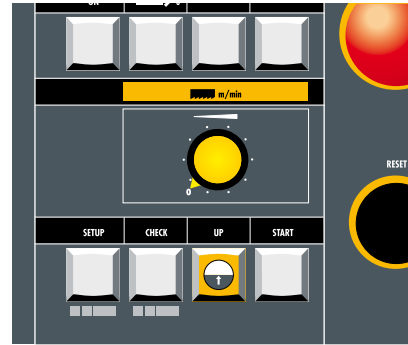
- Console with all centralized controls, installed on an articulated arm.
- Low voltage soft keyboard, in polyester, with thermo-shaped buttons, with tactile feeling and sound signal when operating.
- Display for the following messages: + Diagnostic (messages in the use language). + Alarms (cause description). + 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.
- Program with several special cutting cycles.
- Latest generation hydraulic control unit, with

high efficiency and low energy consumption.

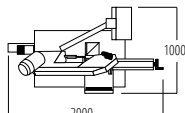
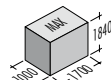
- Double band rotation speed (36/72 m/min) with possibility of ordering the sawing machine with electronic inverter for the continuous adjustment of the band speed (from 15 to 100 m/min).
- The limits of the head stroke are programmed through the console, depending on the dimensions of the bars to be cut.
- Manually-operated blade tensioning through electronic transducer, with displaying.
- Steel base with removable coolant tank.
- Electric pump for band lubrication and cooling.
- Preset to be equipped with the spray mist system (OPTIONAL), other than with the standard-










delivered traditional lubrication with emulsible oil.

- Wire chip brush for band cleaning.
- Machine arranged for handling with movement equipment.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Stock support arm with roller predisposed to mount loading table.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 10 - 12 - 16 - 32 - 34 - 36 - 57 - 72 - 80



								
mm	kW	m/min	mm	0°	250	230	280x200	kg
2950x27x0,9	1,5/1,8	36/72	285	+45°	190	180	180x180	
				+60°	120	110	110x110	435



SHARK

281 NC 5.0

Shark 281 NC 5.0, electrohydraulic automatic band sawing machine which can operate also in semi-automatic, semi-automatic/dynamic and manual mode to cut from 0° to +60°.

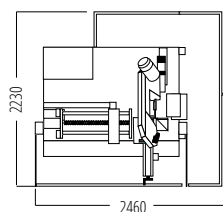
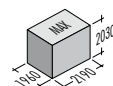
- CNC machine with a new controller : MEP 50 with Windows "CE" based. This new PLC has been specifically designed by MEP for the automation of its range of products.










A FEW FEATURES:

- 7" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive, it guarantees a reliable use and it controls all cutting parameters in real time.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 10 - 14 - 15 - 17 - 33 - 34 - 49 - 57 - 58 - 60 - 72 - 73 - 80



								
mm	kW	m/min	mm	0°	250	230	280x200	kg
2950x27x0,9	2,2	15÷100	285	+45°	190	180	180x180	
				+60°	120	110	110x110	1055



- Console with all centralized controls, installed on an articulated arm to follow the operator in every operating position for the controls and the EMERGENCY.
- Visualization and registration of alarms and events with the possibility to visualize the story of occurred events.
- Electronic inverter for the continuous adjustment of the band speed from 15 to 100 m/min.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.
- Bar feeder with recirculating balls screw/nut and stepper motor (feed in length in one stroke 600 mm, that can be repeated in order to cut any length).
- Cutting head and feeding vice positioning with joystick.
- Automatic acquisition of the actual starting point of the cut.



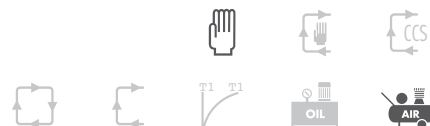
- Electronic transducer to visualize band tensioning.
- Automatic adaptive shearing stress control system with servovalve mounted directly on the cylinder.
- Coolant tank inside the steel base with two electric pumps so as to lubro-refrigerate band. The drawer to collect chips can be replaced with a motorized chip evacuator (see optionals).
- Preset to be equipped with the spray mist system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Wire chip brush for band cleaning.
- Machine arranged for handling with movement equipment.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.





SHARK

282

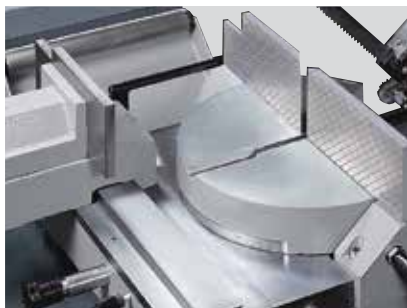


SHARK 282, manual band sawing machine to cut from -45° to $+60^\circ$.

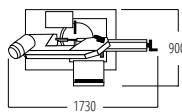
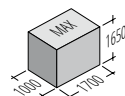
A FEW FEATURES:

- Hydraulic transducer to visualize band tensioning.
- Wire chip brush for band cleaning.
- Double head return spring.
- Sliding vice with sideways movement and fast-positioning system.
- Wide working surface with rotating table installed on a roller bearing, dia. 265 mm, pre-loaded with thrust bearing.
- Adjustable precision stops for cuts at -45° , 0° , $+45^\circ$ and $+60^\circ$.
- Steel base with removable coolant tray.










- Electric pump for band lubrication and cooling.
- Machine arranged for handling with movement equipment.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Stock support arm with roller predisposed to mount loading table.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.
- The CUT CONTROL SYSTEM (CCS) can be retrofitted on machines out in the field.



SHARK 282/282CCS

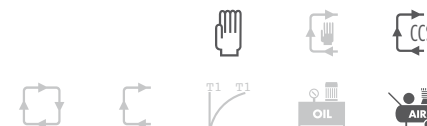


OPTIONALS FROM PAG 61 - N° 02-03-04-07-08-09-20-34-57-72-80

								
				0°	250	220	280x220	
				+45°	230	200	220x200	
				+60°	120	80	140x80	kg
2950x27x0,9	1,5/1,8	36/72	285	-45°	200	170	200x140	440



SHARK 282 CCS/MA

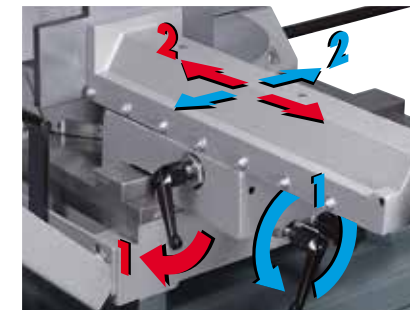


SHARK 282 CCS (Cut Control System) manual bandsawing machine to cut from -45° to $+60^{\circ}$. Other than the manual cut mode, the sawing machine can make single cuts without operator, using the head weight controlled by a hydraulic brake: after the cut, the band stops. The frame at this point is manually lifted to the position needed in order to reposition the bar to cut. In the version with pneumatic vice (MA) the vice is opened/closed by a manually-controlled valve (optional with pedal control).

A FEW FEATURES: See SHARK 282



SHARK 282CCS












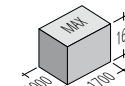
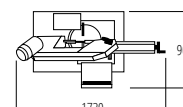
SHARK 282/282CCS



SHARK 282/282CCS

OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 09 - 20 - 34 - 57 - 72 - 80

								
mm	kW	m/min	mm	0°	250	220	280x220	kg
2950x27x0,9	1,5/1,8	36/72	285	+ 45°	230	200	220x200	
				+ 60°	120	80	140x80	
				- 45°	200	170	200x140	440





SHARK

282 SXI EVO

Shark 282 SXI evo, semi-automatic electro-hydraulic band sawing machine, with operation also in manual and semi-automatic dynamic cycle, for cutting from -45° to $+60^{\circ}$.

- 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.

- Semi-automatic dynamic cycle: lowering the head manually, so as to position it just above the material, the semi-automatic cycle starts by pressing trigger switch on handle.

- 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.



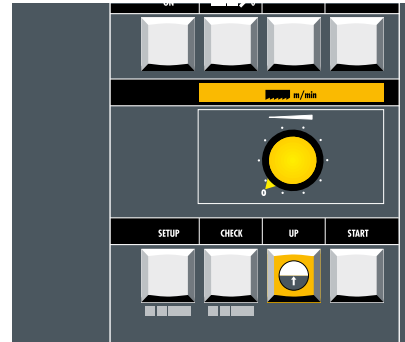


A FEW FEATURES:

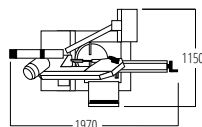
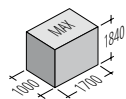
- Console with all centralized controls, installed on an articulated arm.
- Low voltage soft keyboard, in polyester, with thermo-shaped buttons, with tactile feeling and sound signal when operating.
- Display for the following messages: + Diagnostic + Allarms (cause description). + Input and output status. + Cut counting. + Time spent for the cut made. + Blade motor absorption. + Blade tension. + Blade speed. + Numeric displaying of the head position.
- Control handle of the manual cycle at 24 V, IP55.
- Program with several special cutting cycles.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.










- Wide working surface with rotating table installed on a roller bearing, dia. 265 mm, pre-loaded with thrust bearing.
- Double band rotation speed (36/72 m/min) with card PRESET to mount the electronic inverter for the continuous adjustment of the band speed (from 15 to 100 m/min).
- The limits of the head stroke are programmed through the control board, depending on the dimensions of the bars to be cut.
- Manually-operated blade tensioning through electronic transducer, with displaying.
- Steel base with removable coolant tray.
- Electric pump for band lubrication and cooling.
- Preset to be equipped with the spray mist

- system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Wire chip brush for band cleaning.
- Machine arranged for handling with movement equipment.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Stock support arm with roller predisposed to mount loading table.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 10 - 12 - 20 - 32 - 34 - 49 - 57 - 72 - 80



								
mm	kW	m/min	mm	0°	250	220	280x220	kg
2950x27x0,9	1,5/1,8	36/72	285	+ 45°	230	200	220x200	
				+ 60°	120	80	140x80	
				- 45°	200	170	200x140	485





SHARK

331-1 NC 5.0 SPIDER

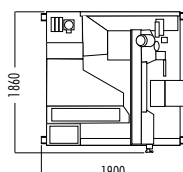
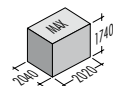
SHARK 331-1 NC 5.0 spider, Electrohydraulic automatic band sawing machine which can also operate in semi-automatic cycle for cuts from 0° up to +60°. Machine with compact dimensions. CNC machine with a new controller: MEP 50 with Windows "CE" based. This new PLC has been specifically designed by MEP for the automation of its range of products.

A FEW FEATURES:

- 7" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive, it guarantees a reliable use and it controls all cutting parameters in real time.
- Console with all centralized controls, installed on a fixed pedestal in order that the operator can operate all programming and operating functions completely safe.
- Visualization and registration of alarms and events with the possibility to visualize the story of occurred events.
- Electronic inverter for the continuous adjustment of the band speed from 15 to 100 m/min.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 10 - 14 - 15 - 33 - 34 - 57 - 61 - 70 - 72 - 73 - 80 - 81



m/min	kW	mm	kW	l	kW	l	mm	Kg		
15÷100	2,2	3650x27x0,9	0,75	33	0,18	100	335	1150	0°	300
									+45°	240
									+60°	160
										260
										240x160
										150x150



- Bar feeder with recirculating balls screw/nut and stepper motor (feed in length in one stroke 600 mm, that can be repeated in order to cut any length).
- Feeding vice cover with safety limit switch in case the operator opens the cover during the cutting cycle.
- Cutting head and feeding vice positioning with joystick.
- Automatic acquisition of the actual starting point of the cut.
- Electronic transducer to visualize band tensioning.
- Automatic adaptive shearing stress control system with servovalve mounted directly on the cylinder.

- Continuous control of the blade rotation. In case the blade is jammed, automatically the machine will stop.
- Adjustable rollers for bundle cutting on one row.
- Adjustable guide to unload cut pieces.
- Extractable coolant tank with two electric pumps so as to lube-refrigerate band. The drawer to collect chips can be replaced with a motorized chip auger (OPTIONAL).
- Preset to be equipped with the spray mist system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Additional foot pedal with emergency stop (OPTIONAL).
- Wire chip brush for band cleaning.

- Emergency lamp with acoustic signal in case the machine is in a stand still situation.
- Machine arranged for handling with movement equipment.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.





SHARK

332-1 CCS

SHARK 332-1 CCS, manual band sawing machine to cut from -45° to $+60^{\circ}$. This model is available in the manual version or with the Cut Control System (CCS).

- Functioning of the CCS cycle: after positioning the bar and closing the vice, the cutting phase is started, using the weight of the saw head controlled by a hydraulic braking circuit to adjust the feeding speed; after the cut, the saw head is manually lifted till the position needed for the bar to be fed.

In the Shark 332-1 CCS MA model (pneumatic vice) vice opens/closes by means of a footpedal.



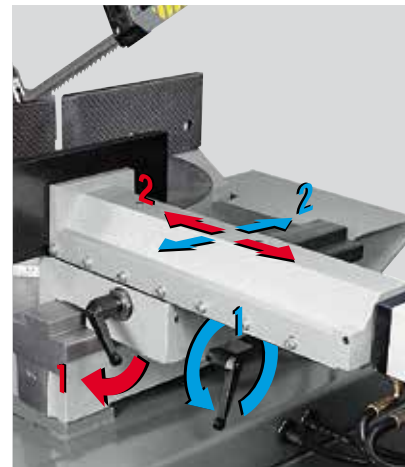
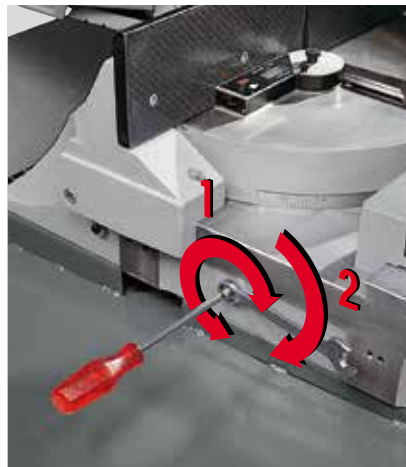


A FEW FEATURES:

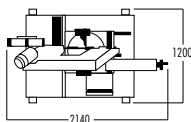
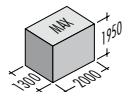
- Electric system (wiring totally identifiable, stand-by, main lockable disconnect switch, pole change switch, emergency stop, motor magneto-thermal overload, minimum tension coil, protection against missing phase, low tension safety device 24 V).
- Rotating table (installed on a roller bearing, diameter 420 mm, pre-loaded with thrust










- bearing) complete with replaceable steel plates on the working surface.
- Band tensioning with visualization on LCD by electronic transducer.
- Manual clamping system by means of vice screw with fast-positioning system.
- Coolant tank inside the steel base and drawer to collect chips which.
- Electric pump for band lubrication and cooling.

- Wire chip brush for band cleaning.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Machine arranged for handling with movement equipment.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 12 - 14 - 15 - 20 - 34 - 57 - 65 - 72 - 80



								
mm	kW	m/min	mm	0°	300	260	330x250	kg
3650x27x0,9	1,5/1,8	40/80	335	+ 45°	260	250	260x200	
				+ 60°	180	170	170x170	
				- 45°	240	210	240x160	640





SHARK

332-1 SXI EVO

SHARK 332-1 SXI evo, semi-automatic electro-hydraulic sawing machine, with operation also in manual and semi-automatic dynamic cycle, for cutting from -45° to $+60^{\circ}$.

- 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.

- Semi-automatic dynamic cycle: lowering the head manually, so as to position it just above the material, the semi-automatic cycle starts by pressing trigger switch on handle.

- 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.



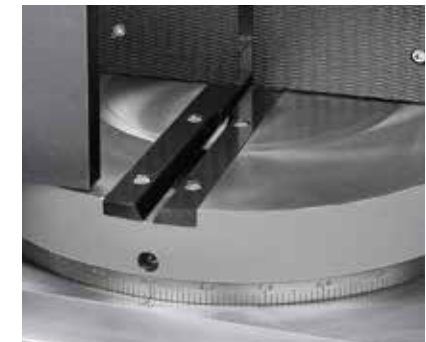
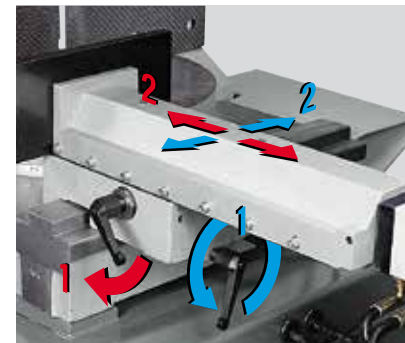


A FEW FEATURES:

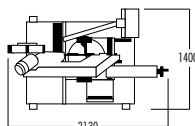
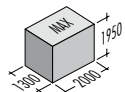
- Console with all centralized controls, installed on an articulated arm.
- Low voltage soft keyboard, in polyester, with thermo-shaped buttons, with tactile feeling and sound signal when operating.
- Display for the following messages: Diagnostic + Allarms (cause description). + Input and output status. + Cut counting. + Time spent for the cut made. + Blade motor absorption. + Blade tension. + Blade speed. + Numeric displaying of the head position.
- Control handle of the manual cycle at 24 V, IP55.
- Program with several special cutting cycles.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.
- Rotating table (mounted on a 420 mm roller bearing, pre-loaded with thrust bearing) with steel vice plates which can be replaced after wear.
- Double band rotation speed (40/80 m/min) with card PRESET to mount the electronic inverter for the continuous adjustment of the band speed (from 15 to 100 m/min).










- The limits of the head stroke are programmed through the control board, depending on the dimensions of the bars to be cut.
- Sliding vice with sideways movement and fast-positioning system which functions in automatic also when in manual mode.
- Manually-operated blade tensioning through electronic transducer, with displaying.
- Steel base allows to recover coolant also when cutting at the maximum degrees.
- Coolant tank inside the steel base and drawer to collect chips which.
- Electric pump for band lubrication and cooling.
- Preset to be equipped with the spray mist

- system (OPTIONAL), as well as with the standard delivered traditional lubrication with emulsible oil.
- Wire chip brush for band cleaning.
- Machine arranged for handling with movement equipment.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Stock support arm with roller predisposed to mount loading table.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 10 - 12 - 20 - 32 - 34 - 49 - 57 - 66 - 72 - 80



								
mm	kW	m/min	mm	0°	300	260	330x250	kg
3650x270x,9	1,5/1,8	40/80	335	+ 45°	260	250	260x200	
				+ 60°	180	170	170x170	
				- 45°	240	210	240x160	675



SHARK

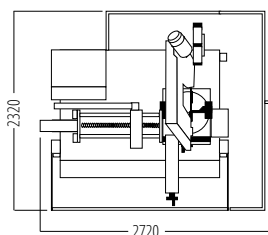
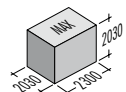
332-1 NC 5.0














SHARK 332-1 NC 5.0, electrohydraulic band sawing machine with multimicroprocessor which can operate in automatic, semi-automatic, semi-automatic/dynamic and manual mode.

- Automatic cycle (to cut from 0° to +60°)
- Semi-automatic, semi-automatic/dynamic and manual cycle (for cuts from -45° to +60°).
- CNC machine with a new controller : MEP 50 with Windows "CE" based. This new PLC has been specifically designed by MEP for the automation of its range of products.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 10 - 14 - 15 - 21 - 33 - 34 - 35 - 37 - 52 - 57 - 58 - 60 - 72 - 73 - 76 - 80



												
				0°					300	260	330x250	
				+ 45°	↓	↓	↓	↓	260	250	260x200	
				+ 60°	↓	↓	↓	↓	180	170	170x170	kg
				- 45°					240	210	240x160	1190
mm	kW	m/min	mm									
3650x27x0,9	2,2	15÷100	335									

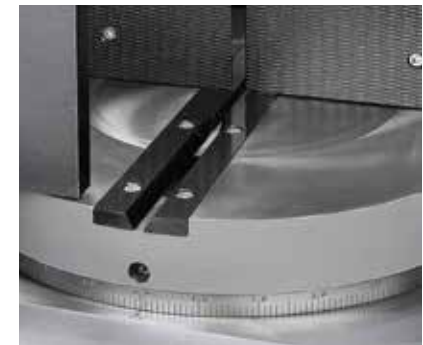


A FEW FEATURES:

- 7" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive, it guarantees a reliable use and it controls all cutting parameters in real time.
- Console with all centralized controls, installed on an articulated arm to follow the operator in every operating position for the controls and the EMERGENCY.
- Visualization and registration of alarms and events with the possibility to visualize the story of occurred events.
- Electronic inverter for the continuous adjustment of the band speed from 15 to 100 m/min.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.
- Rotating table (mounted on a 420 mm roller bearing, pre-loaded with thrust bearing) with steel vice plates which can be replaced after wear.
- Bar feeder with recirculating balls screw/nut and stepper motor (feed in length in one stroke 600 mm, that can be repeated in order to cut any length).



- Cutting head and feeding vice positioning with joystick.
- Automatic acquisition of the actual starting point of the cut.
- Electronic transducer to visualize band tensioning.
- Automatic adaptive shearing stress control system with servovalve mounted directly on the cylinder.
- Coolant tank inside the steel base with two electric pumps so as to lube-refrigerate band. The drawer to collect chips can be replaced with a motorized chip evacuator (see optionals).
- Preset to be equipped with the spray mist system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Wire chip brush for band cleaning.
- Machine preset for being handled by transpallet.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.





SHARK

382-1 SXI EVO

SHARK 382-1 SXI evo, semi-automatic electro-hydraulic sawing machine , with operation also in manual and semi-automatic dynamic cycle, for cutting from -45° to $+60^{\circ}$.

- 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.

- Semi-automatic dynamic cycle: lowering the head manually, so as to position it just above the material, the semi-automatic cycle starts by pressing trigger switch on handle.

- 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.



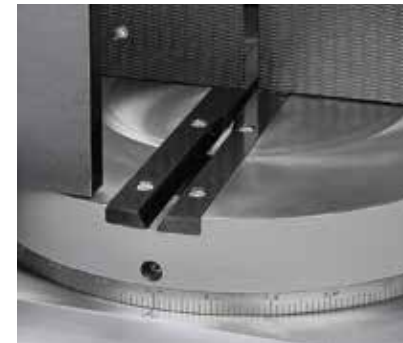
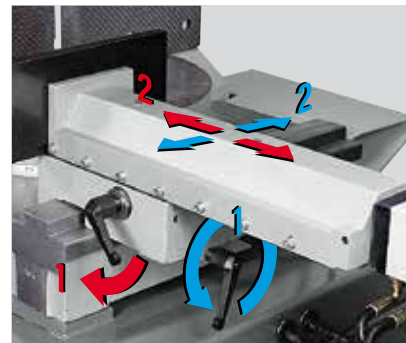


A FEW FEATURES:

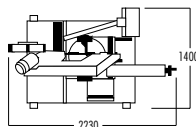
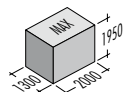
- Console with all centralized controls, installed on an articulated arm.
- Low voltage soft keyboard, in polyester, with thermo-shaped buttons, with tactile feeling and sound signal when operating.
- Display for the following messages: Diagnostic + Allarms (cause description). + Input and output status. + Cut counting. + Time spent for the cut made. + Blade motor absorption. + Blade tension. + Blade speed. + Numeric displaying of the head position.
- Control handle of the manual cycle at 24 V, IP55.
- Program with several special cutting cycles.
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.
- Rotating table (mounted on a 420 mm roller bearing, pre-loaded with thrust bearing) with steel vice plates which can be replaced after wear.
- Double band rotation speed (40/80 m/min) with card PRESET to mount the electronic inverter for the continuous adjustment of the band speed (from 15 to 100 m/min).










- The limits of the head stroke are programmed through the control board, depending on the dimensions of the bars to be cut.
- Sliding vice with sideways movement and fast-positioning system which functions in automatic also when in manual mode.
- Manually-operated blade tensioning through electronic transducer, with displaying.
- Steel base allows to recover coolant also when cutting at the maximum degrees.
- Coolant tank inside the steel base and drawer to collect chips which.
- Electric pump for band lubrication and cooling.
- Preset to be equipped with the spray mist

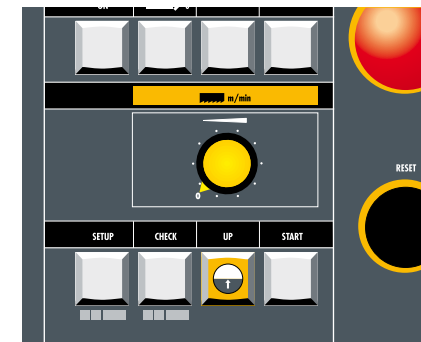
- system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Wire chip brush for band cleaning.
- Machine arranged for handling with movement equipment.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Stock support arm with roller predisposed to mount loading table.
- Bi-metal band for solids and sections.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 10 - 12 - 32 - 34 - 38 - 66 - 74 - 77 - 78 - 82



								
mm	kW	m/min	mm	°				kg
3770x27x0,9	1,5/1,8	40/80	385	0°	300	250	380x250	
				+ 45°	260	250	300x200	
				+ 60°	180	170	200x170	
				- 45°	240	210	280x160	695





SHARK

452-1 SXI EVO

SHARK 452-1 SXI evo, semi-automatic electro-hydraulic sawing machine with 4500x34x1,1 mm band, to cut pipes, profiles and beams up to 450x320 mm at 0°.

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

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.

- 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.

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.





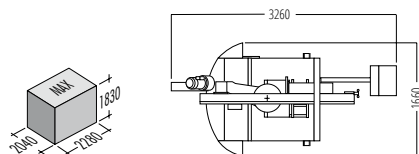
- Latest generation hydraulic control unit, with high efficiency and low energy consumption.
- The headstroke, according to the dimensions of the material which has to be cut, is set directly from the control panel.
- Low voltage soft keyboard, in polyester, with thermo-shaped buttons, with tactile feeling 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.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 10 - 22 - 23 - 32 - 34 - 44 - 66 - 74 - 77



								
mm	kW	m/min	mm	kg				
4500x34x1,1	4,0	15÷100	455	1100	0°	330	320	450x320
					+ 45°	320	300	300x300
					+ 60°	210	200	200x200
					- 45°	320	300	300x300
					- 60°	210	200	200x200



SHARK

230-1 NC HS 5.0

SHARK 230-1 NC HS 5.0, electrohydraulic automatic double-column bandsaw for 0° cuts on profiles and solid parts in structural, stainless and alloy steels, with restpiece which cannot be fed in automatic of 70 mm.

- It cuts dimensions up to 230x230 mm and can operate also in semi-automatic cycle.
- CNC machine with controlled double axis so as to obtain, on the same bar, 1000 different lots each of different lengths and quantities.
- CNC machine with a new controller : MEP 50 with Windows "CE" based. This new PLC has been specifically designed by MEP for the automation of its range of products.

OTHER FEATURES

- 7" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive, it guarantees a reliable use and it controls all cutting parameters in real time.
- Field bus control system with double microprocessor with serial connection.





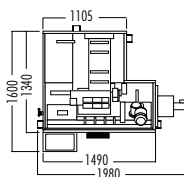
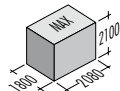
- Structure in sturdy cast iron G25, to absorb vibrations and give the machine a better cutting stability and longer blade life.
- Ergonomically positioned on the front side of the machine, the control panel allows for easy viewing of machine operations and job set up.
- Infinitely adjustable cutting speed from 15 to 100 m/min controlled by an AC inverter drive system.
- Automatic acquisition of the actual starting point of the cut.
- Saw frame movement on linear guide with ball-recirculating pre-loaded slide.
- Cutting head and feeding vice positioning with joystick.
- Automatic adaptive shearing stress control system with servovalve mounted directly on the cylinder.
- Manual band tension with LED display on control panel.
- Hydraulic power pack to supply the saw frame and the feeding and cutting vices. Variable

- pressure adjusters allow to set the clamping force.
- Feeding length up to 500 mm in a single stroke driven by a stepper motor and ball screw assembly.
 - Feeder vice with sideways movement for self-adjustment in case of bars slightly deformed.
 - Automatic retract of back jaw feeder vice to help the feed-in of bars heavily deformed (OPTIONAL).
 - Driving pulley secured by tapered hub to ensure a strong fastening still allowing axial adjustment.
 - Adjustable blade-guide heads in steel with carbide guide inserts, coolant taps for the traditional lubrication and preset to install the mist lubrication (OPTIONAL).
 - Automatic adjustment of the front blade-guide head according to the dimensions of the bars to be cut.
 - Two vertical rollers to help aligning the material.
 - Adjustable guide to unload cut pieces.
 - Band rotation control with stop in real time in case of locked tool.

- Enclosed steel base with coolant tank and chip drawer, that can be replaced by a powered chip auger (OPTIONAL).
- Blade brush driven off band wheel.
- Sound and flashing indicator for machine shut-downs.
- Machine preset for being handled by lift truck or crane.
- Bimetal band for the cut of profiles and solid pieces.
- Service keys and instructions manual, for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 04 - 14 - 15 - 34 - 53 - 54 - 57 - 58 - 61 - 69 - 72 - 73 - 80



mm	kW	kW	mm	kW	l	kW	l	mm	0°	mm	mm	kg
15÷100	2,2	3,0	2950x27x0,9	1,1	33	0,18	95	235		230	230	1175





TIGER

352/MA

TIGER 352, manual vertical sawing machine to cut from -45° to $+60$, with HSS blade.

A FEW FEATURES:

- Sawing head movement on double linear guides with preloaded slides with recirculating ballscrews.
- Electrical panel (wiring totally identifiable, main lockable disconnect switch, motor magneto-thermal overload, minimum tension coil, protection against missing phase, low tension safety device 24 V).





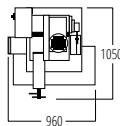
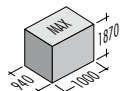
- Low voltage IP55 control handle.
- Rotating table on a center pin with axial bearing which allows higher precision on the cutting angle set.
- Double set of gears to obtain a high performance.
- Four speeds blade rotation 15/30/45/90 rpm (OPTIONAL 30/60/90/180 rpm).
- Vice with anti-burr device with double clamping of the piece.











- Wire chip brush for band cleaning.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Stock support arm with roller predisposed to mount loading table.
- Steel base with chip drawer and removable coolant tray.
- Electrical pump for the blade lubrication and cooling.

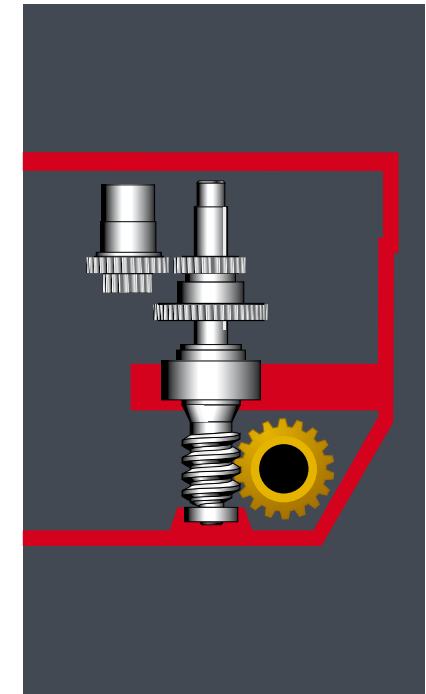
- The machine is supplied without saw blade.
 - Service keys and instructions manual for maintenance and spare parts list.
- The vice on the TIGER 352 MA (pneumatic vice) opens and closes by means of a manually operated valve (or by means of a footpedal which is instead optional).



OPTIONALS FROM PAG 61 - N° 02 - 03 - 05 - 09 - 13 - 26 - 39 - 43 - 71



					Ø				Ø		
HSS	kW	rpm	mm	°							
350x32x2,5	1,8/2,5	15/30/45/90	190	0°	350	115	95	180x95	350	90	
				+ 45°	350	110	95	125x95	350	64	
				+ 60°	350	90	90	90x90	350	45	kg
				- 45°	350	110	95	125x95	350	64	380





TIGER 352 SX EVO

TIGER 352 SX evo, semi-automatic vertical sawing machine to cut steels from -45° to $+60$, with HSS blade.

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

OPERATION: starting the cycle by means of the relative push-button, the following steps are carried out: - the vice closes and the motor starts – the head goes down to execute cut – motor stops – head returns to top position and vice opens.

- 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.

A FEW FEATURES:

- Panel with low tension controls: polyester membrane keypad with tactile thermo-shaped buttons which give out an acoustic signal when pressed.
- Display: 16 characters read on two lines so as



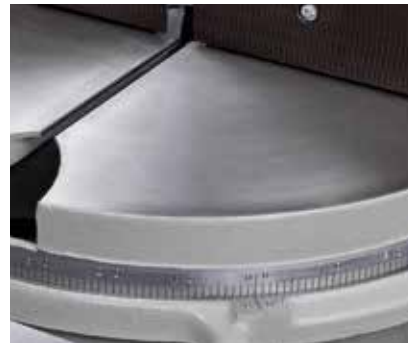


to visualize technological parameters such as: + number of cuts programmed and carried out + cutting time + amperometer + diagnostics and/or caution messages (more than 100) visualized.

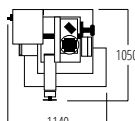
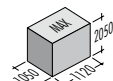
- Registration of alarms and events with the possibility to visualize the story of occurred events.
- The headstroke, according to the dimensions of the material which has to be cut, is set directly from the control panel.
- Double set of gears to obtain a high performance.
- Four speeds blade rotation 15/30/45/90 rpm (OPTIONAL 30/60/90/180 rpm).

- Sawing head movement on double linear guides with preloaded slides with recirculating ballscrews.
- Coaxial cylinder with bypass valve for fast approach and linear transducer for head position reading.
- Rotating table on a center pin with axial bearing which allows higher precision on the cutting angle set.
- Pneumatic vertical vice.
- Steel base with chip drawer and removable coolant tray.

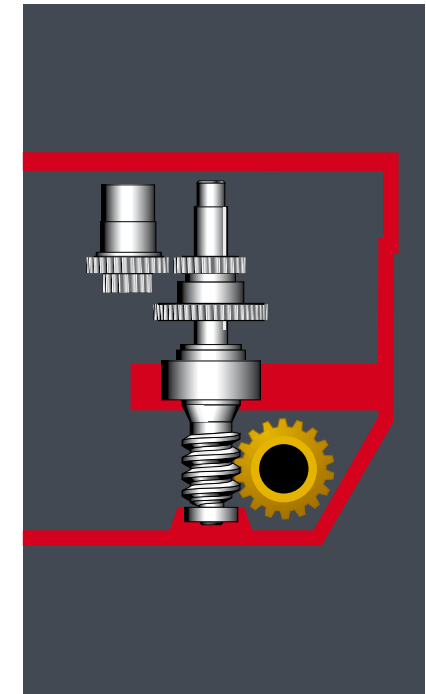
- Electric pump for the blade lubrication and cooling.
- Wire chip brush for band cleaning.
- HSS blade Ø 350x32x2.5 for solids or sections.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Preset to be equipped with the spray mist system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 05 - 10 - 13 - 26 - 41 - 43 - 71



HSS					Ø	○	□	▭	Ø	■	
mm	kW	rpm	mm	0°	350	115	95	180x95	350	90	
350x32x2,5	1,8/2,5	15/30/45/90	190	+ 45°	350	110	95	125x95	350	64	
				+ 60°	350	90	90	90x90	350	45	kg
				- 45°	350	110	95	125x95	350	64	410





TIGER

352 NC 5.0

TIGER 352 NC 5.0, electro-pneumatic automatic vertical sawing machine which can operate also in semi-automatic mode, to cut from -45° to $+60^{\circ}$, with HSS blade.

- CNC machine with a new controller: MEP 50 with Windows "CE" based. This new PLC has been specifically designed by MEP for the automation of its range of products.

A FEW FEATURES:

- 7" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive, it guarantees a reliable use and it controls all cutting parameters in real time.

- Console with all centralized controls, installed on an articulated arm to follow the operator in every operating position for the controls and the EMERGENCY.

- Registration of alarms and events with the possibility to visualize the story of occurred events.

- Bar feeder with recirculating balls screw/nut and stepper motor (feed in length in one stroke 600 mm, that can be repeated in order to cut any length).

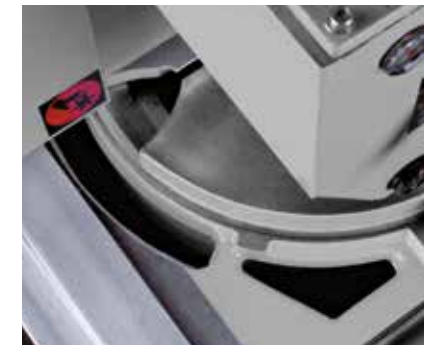
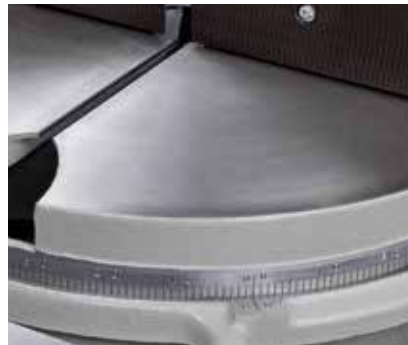




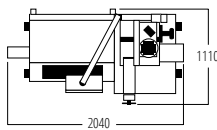
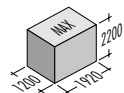
- Optimization of the torque in two ranges (12÷40 and 36÷120 rpm) combining the inverter features with the mechanical gear change (OPTIONAL 15÷50 and 45÷150 rpm with 3,0 kw motor and 5,5 kw inverter).
- Panel with low tension controls: polyester membrane keypad with tactile thermo-shaped buttons which give out an acoustic signal when pressed.
- Double set of gears to obtain a high performance.
- Sawing head movement on double linear guides with preloaded slides with recirculating ballscrews.

- Coaxial cylinder with bypass valve for fast approach and linear transducer for head position reading.
- Cutting head and feeding vice positioning with joystick.
- Automatic acquisition of the actual starting point of the cut.
- Shearing stress control.
- Rotating table on a center pin with axial bearing which allows higher precision on the cutting angle set.
- Pneumatic vertical vice.
- Electric pump for the blade lubrication and

- cooling.
- Wire chip brush for band cleaning.
- Indicator with flashing light in case cycle is stopped.
- HSS blade Ø 350x32x2.5 for solids or sections.
- Preset to be equipped with the spray mist system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 05 - 10 - 14 - 15 - 40 - 41 - 42 - 43 - 56 - 71 - 79



HSS mm		kW	rpm	rpm	inverter kW	mm	0°	350	115	95	180x95	350	90	kg
350x32x2,5	STANDARD	2,6	12÷40	36÷120	3,0	190	+ 45°	350	110	95	125x95	350	64	680
	OPTIONAL	3,0	15÷50	45÷150	5,5		+ 60°	350	90	90	90x90	350	45	
							- 45°	350	110	95	125x95	350	64	





TIGER 372 SX EVO

TIGER 372 SX evo, semi-automatic vertical sawing machine to cut steels from -45° to $+60^{\circ}$, with HSS blade.

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

OPERATION: Starting the cycle by means of the relative push-button the following steps are carried out: - the vice closes and the motor starts – the head goes down to execute cut – motor stops – head returns to top position and vice opens.

- CICLE 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.

A FEW FEATURES:

- Panel with low tension controls: polyester membrane keypad with tactile thermo-shaped buttons which give out an acoustic signal when pressed.

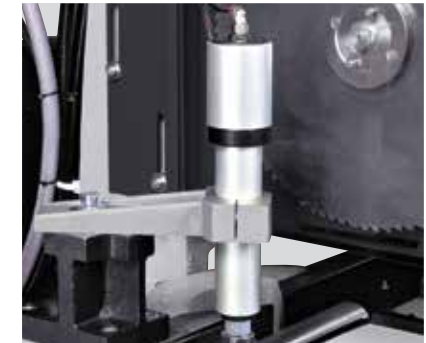




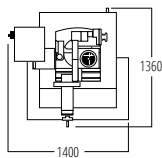
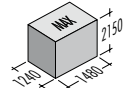
- Display: 16 characters read on two lines so as to visualize technological parameters such as: + band speed + number of cuts programmed and carried out + cutting time + amperometer + diagnostics and/or caution messages (more than 100) visualized.
- Registration of alarms and events with the possibility to visualize the story of occurred events.
- Transmission system at 3 stages to guarantee high sturdiness, precision and obtain high removal capacities.
- 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.
- Sawing head movement on double linear guides with preloaded slides with recirculating ballscrews.
- Coaxial cylinder with bypass valve for fast approach and linear transducer for head position reading.

- The headstroke, according to the dimensions of the material which has to be cut, is set directly from the control panel.
- Rotation pin with preloaded thrust bearing to grant rotation precision and stability.
- Accuracy graduation etched on the rotating table.
- Easily movable vice unit with fast, safe and accurate locking on the whole machine width.
- Pneumatic locking vice with adjustable steel gib.
- Pneumatic vertical vice.
- Wire chip brush for band cleaning.
- Steel base with chip drawer and removable coolant tray.

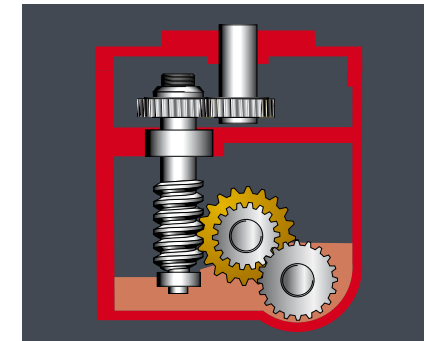
- Electric pump for the blade lubrication and cooling.
- Anti-burr device with double locking system of the stock.
- HSS blade Ø 350x32x2.5 for solids or sections.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- Preset to be equipped with the spray mist system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 05 - 10 - 26 - 41 - 43 - 44 - 45 - 71



HSS	inverter											
	3~	1		0°	370	120	110	180x100	120	110	180x100	
mm	kW	rpm	mm	+ 45°	370	115	100	120x100	70	70	70x70	
370x32x3	5,5	15÷150	190	+ 60°	370	115	90	90x90	50	50	50x50	kg
				- 45°	370	115	100	120x100	70	70	70x70	600





COBRA

352/MA

COBRA 352, manual sawing machine to cut aluminium and light alloys using blade with electrowelded hard-metal plates. The machine cuts from -45° to $+45^{\circ}$ with the head which can be tilted from 0° to $+45^{\circ}$.

On the model 352 MA (pneumatic vice), which is supplied complete with steel base, the vices close automatically when lowering the head.



45°	160x35	180x20





A FEW FEATURES:

- Electric panel (wiring totally identifiable, main lockable disconnect switch, emergency stop, motor magneto-thermal overload, minimum tension coil, protection against missing phase, low tension safety device 24 V).
- Rotating table mounted on bearing for a smooth and precise rotation.
- Adjustable mechanical stops at -45° , 0° and $+45^\circ$ to position the head quickly.
- Screw locking system to lock the head at any degree.

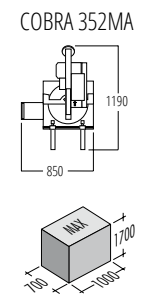
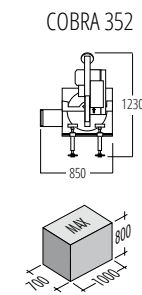
- Steel base (for 352 manual vice only).
- Chip conveyor is predisposed to mount a chip collector.
- Automatic device to lubricate blade.
- Material is clamped by means of two vices which can be freely positioned along the longitudinal axis of the material.
- Movable aluminium jaws which can be adjusted vertically.
- Head locking system.
- Stock support arm with roller predisposed to mount loading table.

- Adjustable rod to measure stop to make cuts of the same length with millimetric steel rod.
- Machine predisposed to be hoisted.
- The machine is supplied without saw blade.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 06 - 31 - 39 - 62 - 64 - 71 - 79

COBRA	kg	mm	kW	rpm	kW	rpm	mm	0°	120	105	180x70	80
352	175	HM 350x32x3,4	2,2	3400	1,5/2,2	1700/3400	180	$+45^\circ$	120	100	135x60	55
352MA	225							-45°	110	95	135x60	55





COBRA 352 SX EVO

COBRA 352 SX evo, semi-automatic electropneumatic sawing machine to cut aluminium and light alloys using blade with electrowelded hardmetal plates (HM).

- The machine cuts from -45° to $+45^{\circ}$ and the head tilts from 0° to $+45^{\circ}$ so as to make inclined cuts.

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

OPERATION: Starting the cycle by means of the relative push-button the following steps are carried out: - the vice closes and the motor starts - the head goes down to execute cut - motor stops - head returns to top position and vice opens.

- CICLE 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.



45°	160x35	180x20



A FEW FEATURES:

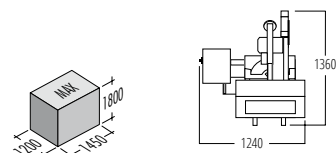
- Display: 16 characters read on two lines so as to visualize technological parameters such as: + number of cuts carried out + cutting time + amperometer + diagnostics and/or caution messages (more than 100) visualized.
- Registration of alarms and events with the possibility to visualize the story of occurred events.
- 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.
- Rotating table mounted on bearing for a smooth and precise rotation.
- Material is clamped by means of two pneumatic vices which can be freely positioned along the longitudinal axis of the material.
- Adjustable mechanical stops at -45° , 0° and $+45^\circ$ to position the head quickly.
- Chip conveyor predisposed to mount optional chip collector.

- Automatic device to lubricate the blade only when the machine is cutting.
- Adjustable rod to measure stop to make cuts of the same length with millimetred steel rod.
- The machine is supplied without saw blade.
- Preset to be equipped with the spray mist system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 06 - 10 - 31 - 39 - 45 - 62 - 71 - 79



mm	kW	rpm	mm	0°	120	105	180x70	80	kg
HM 350x32x3,4	1,5/2,2	1700/3400	180	$+45^\circ$	120	100	135x60	55	285
				-45°	110	95	135x60	55	



COBRA

352 NC 5.0

COBRA 352 NC 5.0, automatic/semi-automatic electropneumatic CNC sawing machine to cut aluminium and light alloys using blade with electrowelded hard-metal plates (HM).

- The machine cuts from -45° to $+45^{\circ}$ and the head tilts from 0° to $+45^{\circ}$ so as to make inclined cuts.

- CNC machine with a new controller: MEP 50 with Windows "CE" based. This new PLC has been specifically designed by MEP for the automation of its range of products.

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.

- 7" touch screen display operator interface and push buttons for all functions of the sawing machine. It is simple and intuitive, it guarantees a reliable use and it controls all cutting parameters in real time.



45°	160x35	180x20





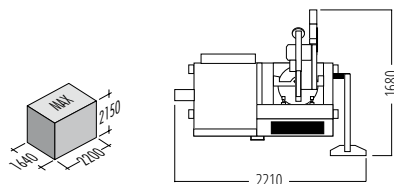
- Registration of alarms and events with the possibility to visualize the story of occurred events.
- Bar feeder with recirculating balls screw/nut and stepper motor (feed in length in one stroke 600 mm, that can be repeated in order to cut any length).
- Panel with low tension controls: polyester membrane keypad with tactile thermo-shaped buttons which give out an acoustic signal when pressed.
- Cutting head and feeding vice positioning with joystick.

- Automatic acquisition of the actual starting point of the cut.
- Rotating table mounted on bearing for a smooth and precise rotation.
- Material is clamped by means of two pneumatic vices which can be freely positioned along the longitudinal axis of the material.
- Adjustable mechanical stops at -45°, 0° and +45° to position the head quickly.
- Chip conveyor predisposed to mount optional chip collector (OPTIONAL).
- Shearing stress control.

- Pneumatic vertical vice.
- Automatic device to lubricate the blade only when the machine is cutting.
- Indicator with flashing light in case cycle is stopped.
- The machine is supplied without saw blade.
- Preset to be equipped with the spray mist system (OPTIONAL), as well as with the standard-delivered traditional lubrication with emulsible oil.
- Service keys and instructions manual for maintenance and spare parts list.



OPTIONALS FROM PAG 61 - N° 02 - 03 - 06 - 10 - 14 - 15 - 31 - 46 - 47 - 48 - 56 - 62 - 63 - 71 - 79



mm	kW	rpm	mm	°					kg
HM 350x32x3,4	2,6/3,6	1700/3400	180	0°	120	105	180x70	80	605
				+45°	120	100	135x60	55	
				-45°	110	95	135x60	55	



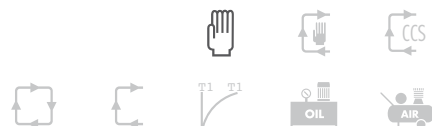


FALCON 251

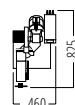
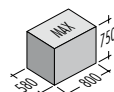
FALCON 251, small manual pivot sawing machine to cut metals from 0° to +45°, using an HSS blade. Practical and safe to use, it can be supplied as a bench model or with the steel base, with three-phase or single-phase speed motor.

A FEW FEATURES:

- Electric system: wiring totally identifiable, motor switch, low tension safety device (LTSD 24 V) with IP55 control handle for the three-phase version and IP55 control handle for the single-phase version.
- Metal blade cover which totally encloses the blade.



- Double head return spring.
- Bronze gear and casehardened/grounded worm screw which work immersed in oil.
- Vice with anti-burr device with double clamping of the piece.
- Electric submerged pump at 48 V to lubro-refrigerate blade.
- Adjustable stop to make cuts of the same length.
- The machine is supplied without saw blade.
- Service keys and instructions manual for maintenance and spare parts list.

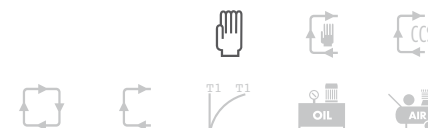


OPTIONALS FROM PAG 61 - N° 02 - 05 - 64

mm	kW	rpm	mm	0°	250	70	60	90x50	225	30	kg
HSS 250x32x2	0,5	45	105	+45°	250	65	55	70x45	225	20	80



FALCON 302



FALCON 302, manual sawing machine to cut metals from -45° to $+45^{\circ}$ using an HSS blade. This high performance model has a heavy cast iron structure and is equipped with all the devices and functions necessary so as to cut in a precise and safe manner.
FALCON 302 is available as a bench model or eventually with the steel base. Furthermore it can be supplied with three-phase motor at one or two speeds.

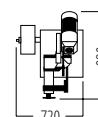
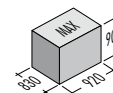
A FEW FEATURES:

- Blade shaft assembled on spheroidal cast iron eccentric bushing.
- Bronze gear mounted with key and ring nut so as to grant the maximum hold.
- Worm screw shaft mounted on a pair of bushings.

- IP55 control handle.
- Clamping system by means of vice screw which slides on taper slide with adjustable gib.
- The front vice jaw has an axial adjustment so as to clamp the material as close as possible to the cutting line.
- Adjustable steel anti-burr device.
- Electric submerged pump at 48 V to lubro-refrigerate blade.
- Double head return spring.
- Adjustable stop to make cuts of the same length.
- Machine predisposed to be hoisted.
- The machine is supplied without saw blade.
- Service keys and instructions manual for maintenance and spare parts list.

OPTIONALS FROM PAG 61 - N° 01 - 02 - 05 - 24 - 25 - 64 - 71 - 79

mm	kW	rpm	kW	rpm	mm	0°	+45°	-45°	300	90	80	100x60
HSS 300x32x2,5	1,5/1,8	45/90	0,75	45	105	300	300	300	70	70	60	225
												40
												28
												135

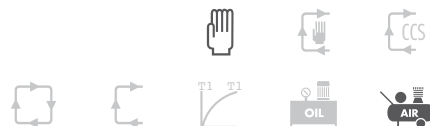


FALCON 302



FALCON

352/MA



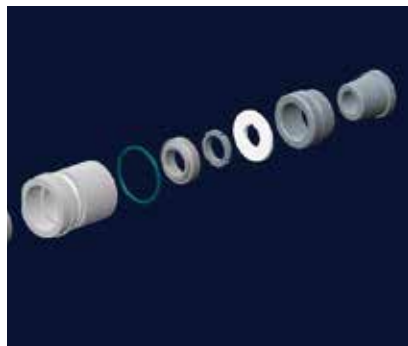
FALCON 352, manual sawing machine to cut metals from -45° to $+45^{\circ}$ using an HSS blade. This high performance model has a heavy cast iron structure and is equipped with all the devices and functions necessary so as to cut in a precise and safe manner.

FALCON 352 is available as a bench model or eventually with the steel base, with a 2-speed three-phase motor. Furthermore upon request it can be supplied with an automatic vice (FALCON 352 MA, so that the vice closes automatically when lowering the head). In the MA version the machine is always supplied complete with steel base.

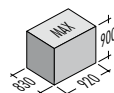
A FEW FEATURES:

- Motor insulation class IP54.
- Worm screw shaft mounted on a pair of bushings.
- Blade shaft assembled on two preloaded taper

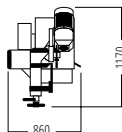
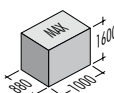
- bearings on eccentric bushing.
- Externally adjustable clutch.
- Clamping system by means of vice screw which slides on taper slide with adjustable gib.
- Fixed burnished steel jaws.
- The front vice jaw has an axial adjustment so as to clamp the material as close as possible to the cutting line.
- Adjustable steel anti-burr device.
- Electric submerged pump at 48 V to lubro-refrigerate blade.
- Double head return spring.
- Adjustable stop to make cuts of the same length.
- Stock support arm with roller predisposed to mount loading table.
- Machine predisposed to be hoisted.
- The machine is supplied without saw blade.
- Service keys and instructions manual for maintenance and spare parts list.



FALCON 352



FALCON 352MA



OPTIONALS FROM PAG 61 - N° 01 - 02 - 05 - 25 - 64 - 71 - 79

	FALCON	HSS	kW	rpm	mm	0°	350	115	100	130x80	250
352	220	350x32x2,5	1,1/2,2	30/60	130	+45°	350	100	85	90x80	250
352MA	245					-45°	350	75	75	90x65	250

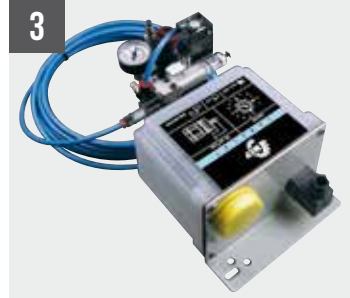
OPTIONALS



Cut to measure stop with millimetered scale
0-600 mm



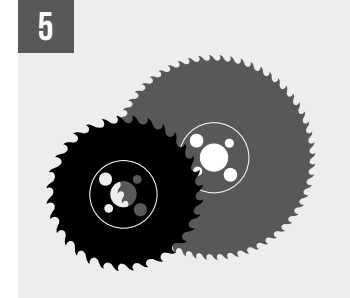
Emulsible oil Lt. 5



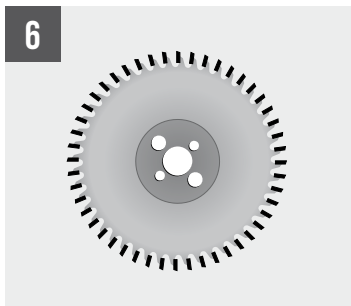
Spray mist system



Bi-metal band



Circular blade HSS



Circular blade HM



SHARK 281
Cut Control System (kit to retrofit)



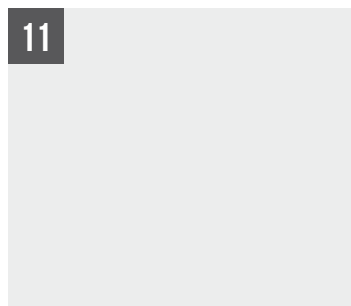
SHARK 282
Cut Control System (kit to retrofit)



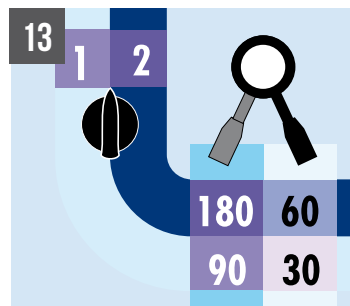
MA - Foot pedal control for vice



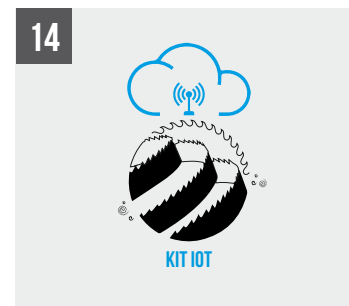
Supplementary foot pedal control w/
emergency stop



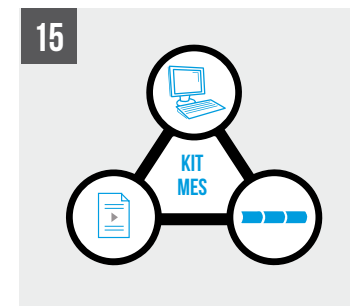
Electronic speed variator (inverter)



TIGER 352/352SXevo
rpm 30/60/90/180

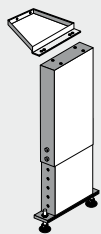


KIT IoT Industry 4.0 ready



KIT MES

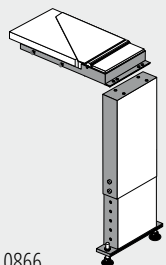
16



Cod. 090 0800

SHARK 281 SXI evo
Adapter for unloading table

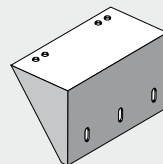
17



Cod. 090 0866

SHARK 281 NC 5.0
Adapter for unloading table

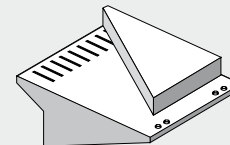
18



Cod. 016 0985

PH 262
Adapter for loading table

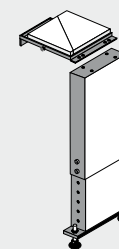
19



Cod. 016 0986

PH 262
Adapter for unloading table

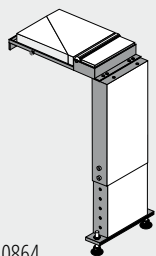
20



Cod. 090 0861

SHARK 282/332-1/CCS/SXI evo
Adapter for unloading table

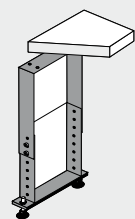
21



Cod. 090 0864

SHARK 282/332-1 NC 5.0
Adapter for unloading table

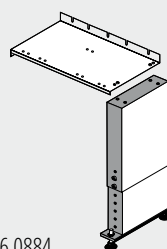
22



Cod. 016 0885

SHARK 452-1
Adapter for loading table

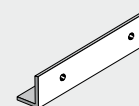
23



Cod. 016 0884

SHARK 452-1
Adapter for unloading table

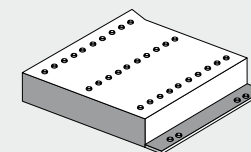
24



Cod. 016 0866

FALCON 302
Adapter for loading table

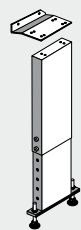
25



Cod. 016 0867

FALCON 302/352
Adapter for unloading table

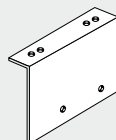
26



Cod. 090 0863

TIGER 352/372
Adapter for unloading table

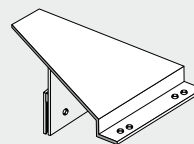
27



Cod. 016 0901

PH 211-1
Adapter for loading table

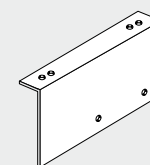
28



Cod. 016 0896

PH 211-1
Adapter for unloading table

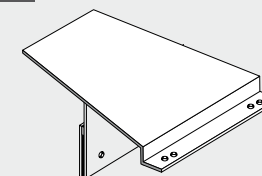
29



Cod. 016 0903

PH 261-1
Adapter for loading table

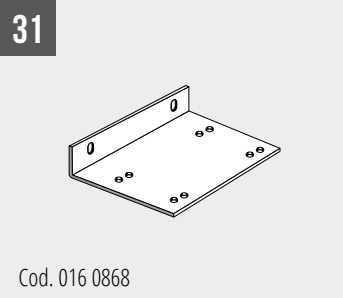
30



Cod. 016 0902

PH 261-1
Adapter for unloading table

OPTIONALS



COBRA 352
Adapter for unloading table



SHARK SXI evo
Hydraulic vice pressure adjuster



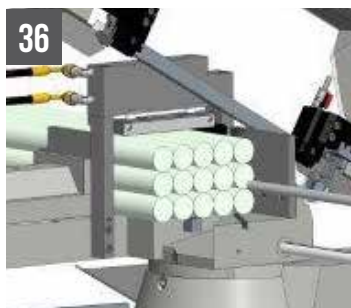
SHARK NC 5.0
Hydraulic vice pressure adjuster



Laser projector + work light



SHARK 332-1 NC 5.0
Special vice to reduce restpiece



SHARK 281 SXI evo - Hydraulic vertical vice
for bundle cutting max. 170x130 mm



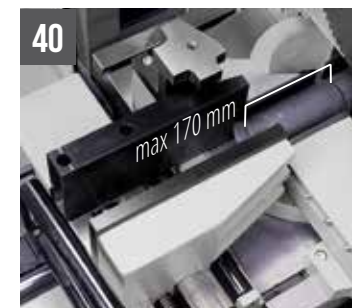
SHARK 282 NC 5.0 / 332 NC 5.0
Adjustable guide to unload pieces cut



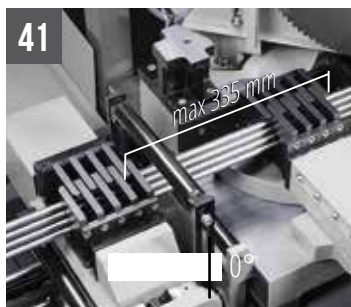
SHARK 382-1 SXI evo - Hydraulic vertical vice
for bundle cutting max. 380x160 mm



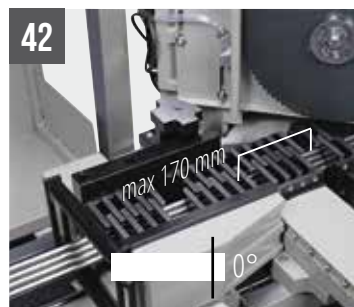
TIGER 352MA/COBRA 352MA
Pneumatic vertical vice



TIGER 352 NC 5.0
Special vice to reduce restpiece



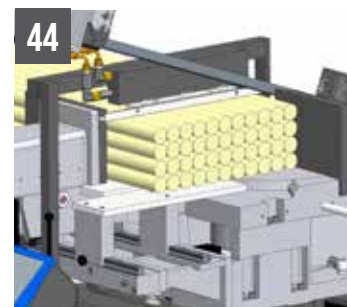
TIGER 352 NC 5.0 max 70x70 - min 8x8
set of comb jaws for bundle cutting



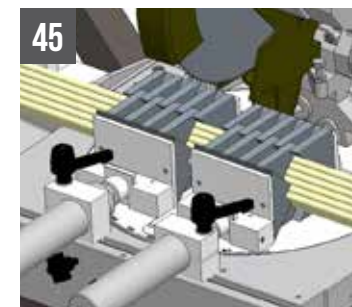
TIGER 352 NC 5.0 - Set of comb jaws when
equipped w/restpiece reduction min.
(max 70x70 mm - min 8x8)



TIGER 352MA/SXevo/NC 5.0
TIGER 372 SXevo
Supplementary pneumatic vice



SHARK 452-1 SXI evo - Hydraulic vertical vice
for bundle cutting max. 450x180 mm



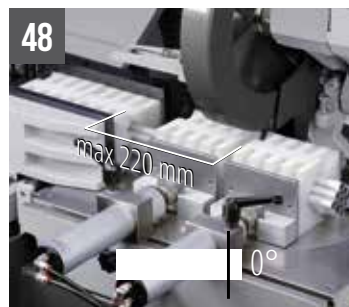
COBRA 352 SX evo - Set of comb jaws for
bundle cutting (max. 70x70 mm)



46
COBRA 352 NC 5.0
Special vice to reduce restpiece



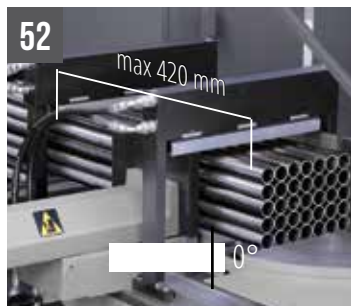
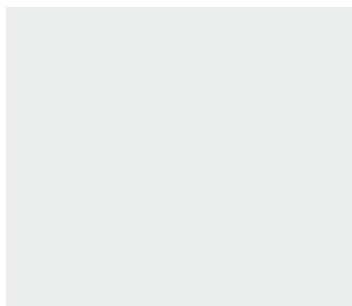
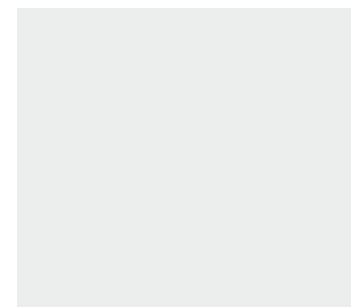
47
COBRA 352 NC 5.0 - set of comb jaws in
teflon for bundle cutting
(max mm 75x75 - min 20x20)



48
COBRA 352 NC 5.0 - Set of comb jaws
when equipped w/restpiece reduction min.
(max 75x75 mm - min 20x20)



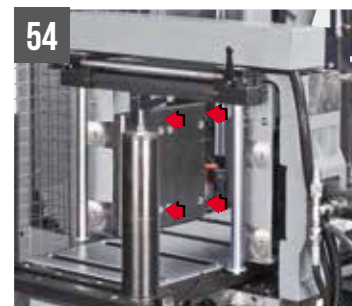
49
SHARK 281 NC 5.0
Hydraulic vertical vices for bundle cutting
(max 170x130 mm)



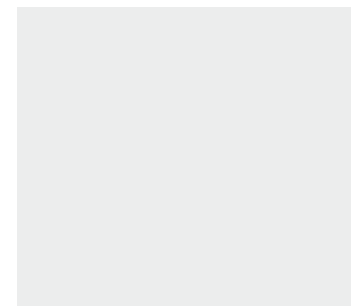
52
SHARK 332-1 NC 5.0
Hydraulic vertical vices for bundle cutting
(max 320x160 mm)



53
SHARK 230-1 NC HS 5.0
Hydraulic vertical vices for bundle cutting
(max 230x230 mm)



54
SHARK 230-1 NC HS 5.0
Automatic rear feeder jaw retract 8mm



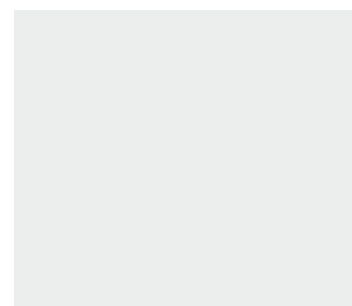
56
loading table for comb jaws
(componible modules 1500 mm)



57
two sets of vertical rollers for roller table with
covering K110



58
two sets of vertical rollers for roller table with
covering K110HD



60
Powered chip conveyor

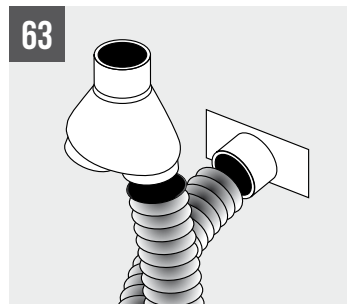
OPTIONALS



SHARK 230-1 / 331-1 NC 5.0 spider
Powered chip auger



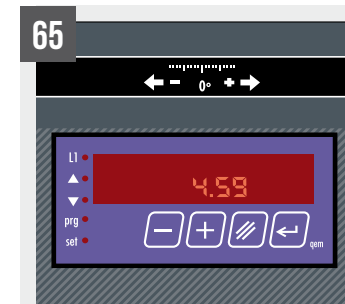
Chip collector



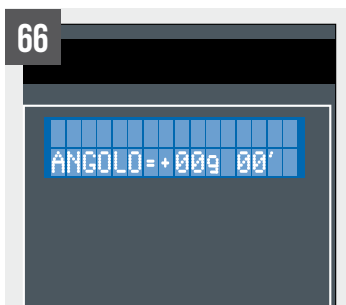
COBRA NC 5.0
Double suction system



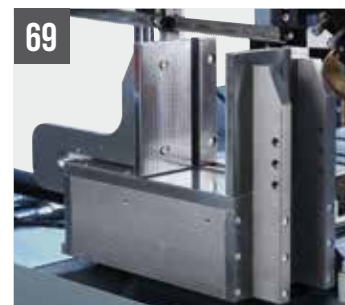
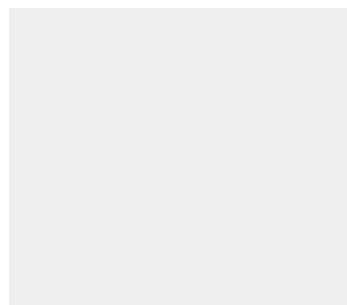
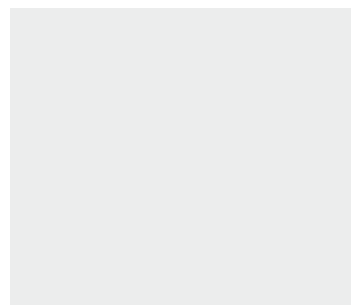
Steel base



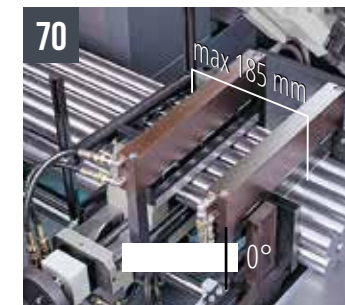
SHARK 332/382/452-1 CCS HYDRA
Digital Angle Display



SHARK 332-1/382-1/452-1 SXlevo
Cutting angle displaying



SHARK 230-1 NC HS 5.0
Front split vise



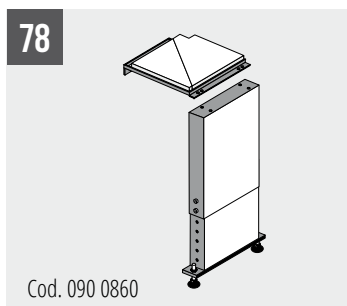
SHARK 331-1 NC 5.0 spider - Hydraulic
vertical vices for bundle cutting
(max 320x150 mm)



SHARK 332-1 NC 5.0
Digital Angle Display

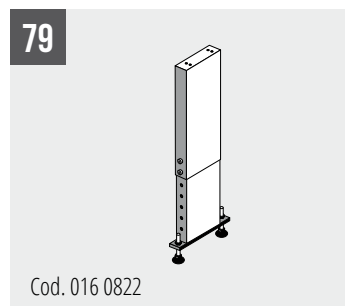


two sets of vertical rollers for roller table with
covering K210



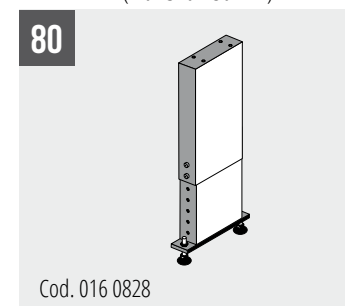
Cod. 090 0860

SHARK 382-1 SXI
Adapter for unloading table



Cod. 016 0822

support table K40

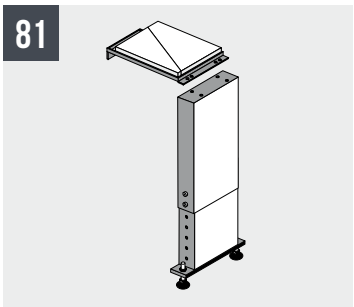


Cod. 016 0828

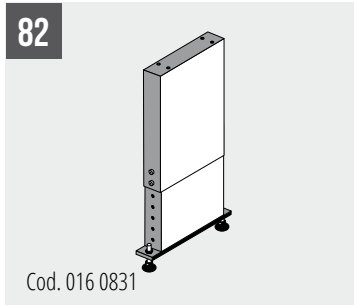
support table K110

STOP AND MEASURING ROD

ROLLER TABLES



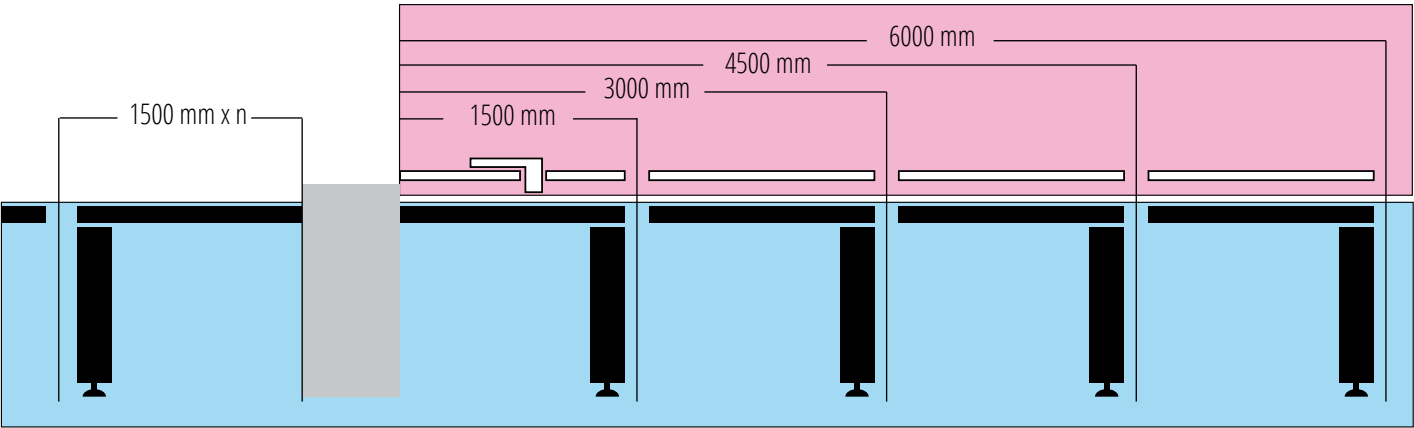
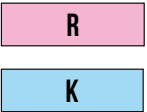
SHARK 331-1 NC 5.0 Spider Adapter for unloading table



Cod. 016 0831

support table K210

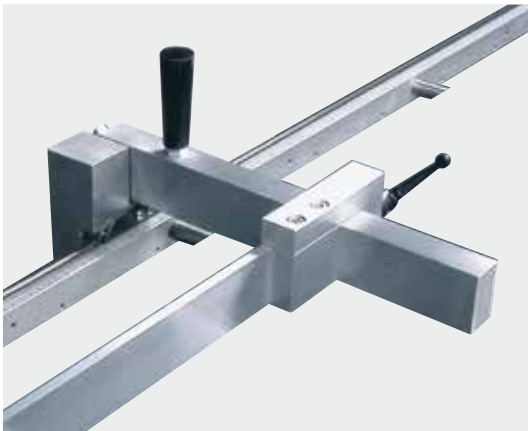
stop and measuring rod
roller tables



	K40	K110	K110HD	K210
R1	●	●		
R2	●	●		●
R3	●	●		●

STOP AND MEASURING ROD

R1



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.

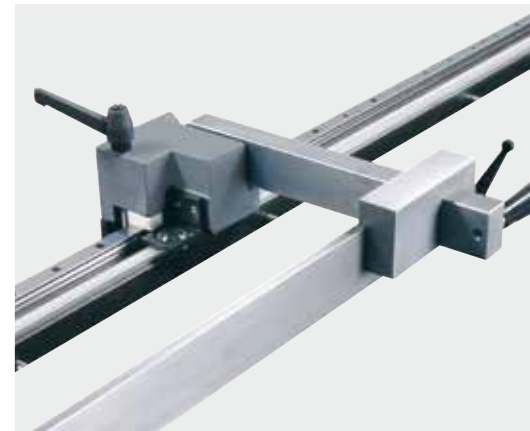
R2



R2 FLIP OVER STOP (medium version): it can be mounted on K40, K110, K210 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



R3 FLIP OVER STOP (strong version): it can be mounted K40, K110, K210 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.

ROLLER TABLES

71



K40

72



K110

73

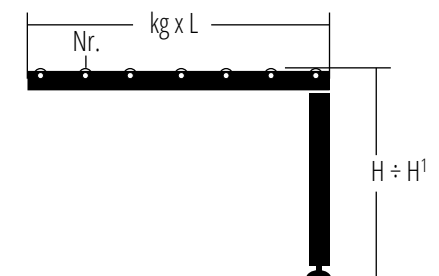
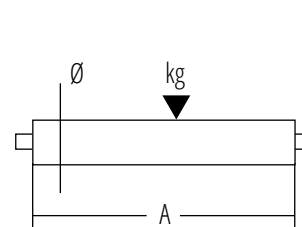


K110 HD

74



K210



Model	Ø 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	32	110	330	360	6	660 X 1500	618 ÷ 908
K 210	35	210	460	490	6	1260 X 1500	620 ÷ 915
K 110 HD	50	250	340	371	6	1500 X 1514	840 ÷ 910

[illegible]

**VERTICAL SAWING
MACHINES
FOR METALS**



TIGER 352/MA	-	-	-	-	950	-	20	-	HSS 350 x 32 x 2.5
TIGER 352 SX evo	-	-	-	-	950	-	20	-	HSS 350 x 32 x 2.5
TIGER 352 NC 5.0	320	10	4.5	1360	950	70 x 70	20	-	HSS 350 x 32 x 2.5
TIGER 372 SX evo	-	-	-	-	950	-	80	-	HSS 370 x 32 x 3.0

**PIVOT SAWING MACHINES
FOR METALS**



FALCON 251	-	-	-	-	995	-	4.5	-	HSS 250 X 32 X 2.0
FALCON 302	-	-	-	-	928	-	2.5	-	HSS 300 x 32 x 2.5
FALCON 352/MA	-	-	-	-	970	-	4.2	-	HSS 350 x 32 x 2.5

**PIVOT SAWING MACHINES
FOR ALUMINIUM**



COBRA 352/MA	-	-	-	-	940	-	1/10	-	HM 350 X 32 X 3.4
COBRA 352 SX evo	-	-	-	-	940	-	1/10	-	HM 350 X 32 X 3.4
COBRA 352 NC 5.0	385		4.6	1360	940	75 x 75	1/10	-	HM 350 X 32 X 3.4

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 conditions 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, problems 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 manufacture 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

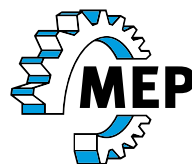
MEP SPA
via Enzo Magnani, 1
61045 Pergola (PU) Italy

DEALER

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



IN THE MUSEUM OF OUR CITY THE ONLY
GROUP OF GOLDEN BRONZE STATUS IN THE
WORLD



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R. Imprese, C.F. e P. IVA n°13051480153

Cod. EORI IT13051480153

REA PS 164639

Capitale Sociale € 10.372.791,00 int. vers.

Pec: mepsa@mepsaws.legalmail.it

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