

Dzambelis

Stone Machinery Ltd



Stone Machinery Catalogue

THE NATURAL CHOICE

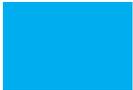
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Contents

	Achilli - Secondary Saw and Machinery.....	4-8	
	Terzago Macchine - Primary and Secondary Saws.....	9-13	
	O.M.G.M Bellani - Edge Polishers.....	14-15	
	Dal Forno - Lifting and Handling Equipment	16-17	
	Italmecc - Water Recycling and Air Purification.....	18-23	
	Donatoni - Pioneer in the field of Stone Processing	24-27	
	Wires Engineering & Co.Fi.Plast - Single, Multi and Profiling Wire Saws... ..	28-29	

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Achilli

GOLD compact CNC bridge saw

Mono-block bridge saw with automatic head rotation to perform straight cuts in all directions. Manual head tilt from 90° to 0° for tilted and horizontal cutting and special connection for mounting core drills. High precision head motion on linear guides with recirculating ball slides.



Advantages

- Customisable according to customer requirements;
- Mono-block structure for easy installation, (does not require foundation);
- High precision head motion, on linear guides with recirculating ball slides by means of motors equipped with frequency inverters;
- Available with fixed, tilting and/or rotating worktable;
- Automatic head rotation;
- Head tilt from 90 to 0 degrees;
- 1/2" gas connection for mounting core drills.



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Miter Saw MSA

Designed to work pieces with the polished side down, it allows 45 perfect degrees also on no calibrated slabs.

No limit of width of the piece to be worked, even the most narrow strips can be machined thanks to the dedicated stop bars that allow pneumatic pistons to block even the smallest pieces.

The maximum cutting precision is guaranteed by the head travel on linear guides fitted with recirculating ball slides and by the position of the disc which cuts from the bottom upwards.



Advantages

Steel frame with hot-dip galvanizing treatment for maximum resistance to wear and rust;

Worktable made of anti-scratch plastic material slats;

Stone thickness from 10 to 80 mm;

Maximum cutting precision is guaranteed by the head travelling on linear guides fitted with recirculating ball slides automatically lubricated;

10 pneumatic pistons and 10 slab stops to secure even the smallest work pieces in place during machining.

Technical Specifications

X axis travel	3300 mm
Worktable dimensions	3300x1000 mm
Diamond blade diameter	350-400-450 mm
Blade bore size	50 mm
Min/Max stone thickness	10-80 mm
Main motor power	5,5kW = 7,5HP trifase
Main motor rotation speed	2800rpm a 50Hz - 3400rpm a 60Hz
Main motor rotation speed (opt.)	800 - 2500 rpm
Standard voltage/ frequency	400V-50/60Hz / 230V-60Hz 3ph.

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Achilli

EVOLUTION IN STONE TECHNOLOGY

Saw with fixed bridge AFR A / C

AFR A

Essential and sturdy saw with fixed bridge manual feed

Compact, essential and sturdy bench saw with fixed bridge; the bridge tilts and the water tank with built-in recycling pump makes it the perfect saw for the stone fabricator. It is equipped with 1 or 2 side extension tables to enlarge the working surface and facilitate the positioning of the slabs.



AFR C

Compact saw with fixed bridge motorized feed

Sturdy saw with fixed bridge and manual head feed for marble and granite slabs; the bridge tilts and the water tank with built-in recycling pump makes it the perfect for small and large stone fabricating shops. It is equipped with 1 or 2 side extension tables to enlarge the working surface and facilitate the positioning of the slabs.



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Monoblock bridge saw MBS-TS

MBS TS is their best-selling bridge saw; the perfect combination of simplicity, flexibility and durability. The installation is easy and does not require foundation. The machine is equipped with a compressed, rectified and chromed "active beam" guaranteeing the utmost accuracy. The rotation of the head allows to perform interpolated angle cutting in all directions.



Advantages

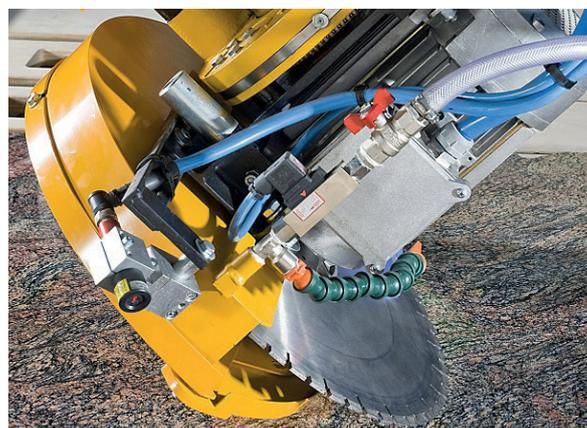
MBS TS is their historical mono-block bridge saw with CNC axis control unit for cuts programming;

Fully customizable according to customer requirements;

Mono-block structure for easy installation;

The perfect cutting precision is guaranteed by the special design of the beam;

Manual or automatic head rotation to perform interpolated angle cutting in all directions.



Technical Specifications

X-axis travel	3000/3500 mm
Y-axis travel	1930 mm
Z-axis travel	380 mm
Worktable dimensions	4600x2200 mm
Max. diamond blade diameter	350-500 mm
Blade bore size	50 mm
Manual head tilt	90° - 45° (lungo asse X)
Head rotation	0°- 90°- 180°- 270° / 0°- 340°
Main motor power	7.5kW = 10HP / 11kW = 15HP
Main motor rotation speed	1400 rpm 50Hz - 1700 rpm 60Hz
Main motor variable speed (optional)	800 - 2500 rpm
Standard voltage/frequency	400V-50/60Hz / 230V-60Hz 3ph.

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Achilli

EVOLUTION IN STONE TECHNOLOGY

Slab trolley SC 500 / 800

Hydraulic and motorized slab trolley, indispensable for lifting and positioning the slabs onto the worktable of your machines. Equipped with rechargeable battery. The telescopic panel enables to handle large slabs.



Advantages

The slab trolley SC500/800 is designed to safely handle large stone slabs:

Available in 2 different models: with worktable of 1380x2000 mm or 1600x2600 mm;

Extendable telescopic panel for easy access to lever controls when loading large slabs;

Worktop fitted with hard wearing plastic wheels for easy slab loading and off-loading;

Motorized hydraulic system powered by battery.



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Portable saw on mobile rail TSA

Innovative portable track saw on mobile rail.

Useful to cut also large slabs with a small investment, placing the rails directly on the slab.



Advantages

Innovative portable track saw on mobile rail TSA:

Sturdy and compact frame easy to transport and assemble on site;

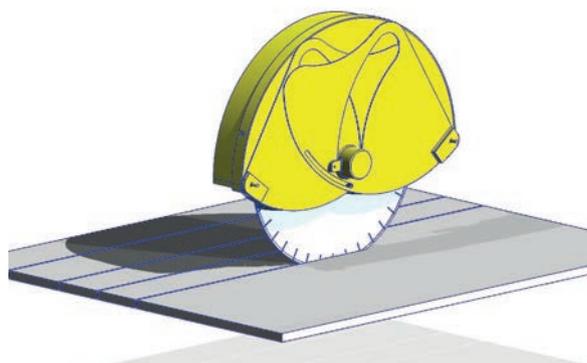
Allows to cut large slabs with a small investment;

Available with 3 different sets of rails: 3x1250mm, 1x2500mm o 1x4000mm..



Technical Specifications

Rail length	1250 mm x 3pz. / 2500mm / 4000mm
Diamond blade diameter	300-350 mm
Blade bore size	25,4 mm
Max. cutting depth	40 mm
Main motor power	2.2kW = 3HP 1ph.
Main motor rotation speed	1400 o 2800 rpm 50Hz – 1700 o 3400 rpm 60Hz
Standard voltage/frequency	230V-50/60Hz



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Terzago

CUTe 36 625

Mono-Block Saving Machine 4 Axis.

Machine with compact dimensions.

Spin of the head $\pm 185^\circ$.

All the Axis drivers complete with elevated inertia BRUSHLESS motors.

Complete CNC control with Touch screen panel.



Technical Specifications

X-axis blade stroke	mm	3550
Y-axis bridge translation	mm	1850
Max. \emptyset blade	mm	625
Blade holder shaft \emptyset	mm	50
Minimum \emptyset of flanges	mm	210
Z-axis maximum cutting depth (with 625 \emptyset disc)	mm	200
Z-axis max. vertical stroke	mm	360
A-axis max. head inclination	Deg.	90°
C-Axis rotation of the head	Deg.	$\pm 360^\circ$
Motor power at 1450 revs. (S1)	HP-kW	20 - 15
X-axis max. speed	m/min	20
Y-axis max. speed	m/min	20
Z-axis max. speed	m/min	3
Voltage/Frequency	V/Hz	400/50
Weight	kg	3500
Overall dimensions installed	mm	5600x2800x3000
Transport		20' open to container



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Easy 625

4 - 5 Axis Mono-Block Bridge Saw.

Machine with compact dimensions.

Spin of the head $\pm 185^\circ$.

All the Axis drivers complete with elevated inertia BRUSHLESS motors.

Complete CNC control with Touch screen panel.



Technical Specifications



X-axis blade stroke	mm	3600
Y-axis bridge translation	mm	1950
Max. Ø blade	mm	625
Blade holder shaft Ø	mm	50
Minimum Ø of flanges	mm	185
Z-axis maximum cutting depth (with 625 Ø disc)	mm	200
Z-axis max. vertical stroke	mm	360
A-axis max. head inclination	degree	90°
C-Axis rotation of the head	degree	$\pm 360^\circ$
Motor power at 1450 revs. (S1)	HP-kW	15 - 11
X-axis max. speed	m/min	40
Y-axis max. speed	m/min	40
Z-axis max. speed	m/min	3
Voltage/Frequency	V/Hz	400/50
Weight	kg	5500
Overall dimensions installed	mm	6000x3500x3000
Transport		20' open to container

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FORMA

Machine suitable for both small and large workshops for both marble and Granite. The following characteristics are standard

Bridge main frame and table in highly resistant cast iron (or welded steel with heat treatment) to guarantee stability, minimum vibration and greater length of life for the machine.

Guaranteed long lasting galvanised steel protective covering. Reduced-dimension motor connected directly to blade. Electronically controlled inverter to obtain all necessary speeds.

Characteristics

Numerically controlled programmer for the management of 4 axes (X-Y-Z and C table rotation),

Control of the horizontal and vertical cutting movement of the disc head, of the bridge translation and of the rotation of the table

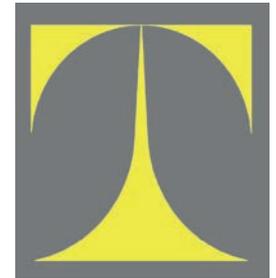
Cutting programs in single step for marble or multiple steps, with small increments programmable, for granite

Completely automated cycles permit the execution of all the programs without the presence of the worker

Programming on the touch screen on-board of the machine, import of DXF-DWG files

Technical Specifications

Blade stroke	3700	mm.
Vertical blade stroke	650	mm.
Bridge translation	3500	mm.
Max. diameter blade	1000-1200	mm.
Max. cutting depth	650	mm.
Blade holder shaft diameter	60	mm.
Blade stop flange diameter	280	mm.
Max. blade motor power	30/40	Kw/Hp
Mandrel rotation speed at 50 HZ	950	rpm
Cast Iron table dim.	3500x1800mm	
Adjustable feed speed	0 -18	min/max.
Machine weight	7380	Kg.



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RTS

Stability of machine in operation guaranteed by high strength beam.

Main part of machine in single iron cast and rails are in welded steel.

Hydraulic cutting unit: working speed/selection according to type of stone can be selected. Perfect speeds can be obtained through inverter.

Automatic positioning turntable 0°- 360°

Pressure switch automatically stops machine if blade cooling water pressure is too low.

Electronic cut-out to protect blade and machine from possible errors by operator or unplanned overloading of the motor.

Control panel fitted on right hand side of bridge

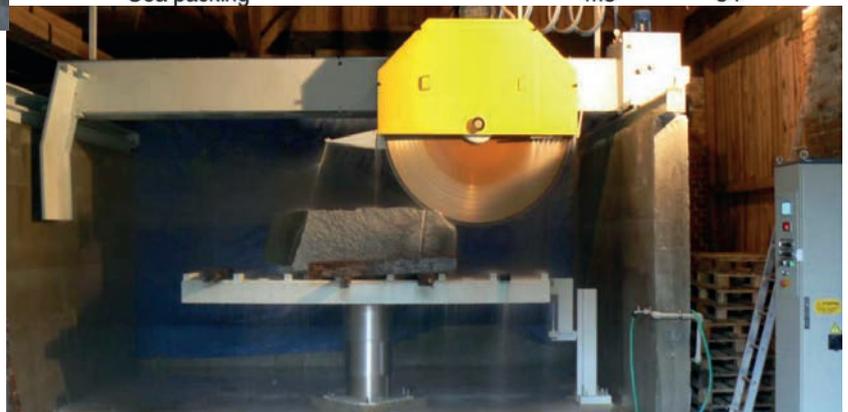
Mobile control unit to control major functions of saw manually longitudinal traverse of blade carrier; rise and fall of table, from position close to table.

Control panel fitted with programmer comprising display unit and key pad to allow operator to programme necessary information for accurate complete working cycle in real time.



Technical Specifications

Blade stroke	mm.	3700
Bridge translation	mm.	3500
Max blade Ø	mm.	1600
Blade holder shaft Ø (by request 80)	mm.	60
Max depth of cut	mm.	650
Table lifting stroke	mm	1000
Max. weight centre table	kg.	15000
Table height from the ground	mm.	700
Cast iron table dimensions	mm.	3500x1250
Blade motor power at 1400 rpm	kW	37
Blade forward speed – adjustable	m/min.	0-13
Weight	kg.	7600
Sea packing	m3	34



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T30 - Electronic Giant Disc Saw.

Stability of machine in operation guaranteed by a over dimensioned frame in welded steel.

On the electrical board it is installed the control panel with Touch Screen to visualize alarms, operator instructions and operational parameters for development of correct working cycle to be seen in real time.

Characteristics

Cutting unit with rack / pinion system powered for beam travel by electric gear motor that allows cutting speed selection.

Bridge translates on bearings with rack / pinion system powered by electric gear motor with inverter for perfect speeds.

Head vertical movement with self-braking motor, on prismatic guides (with guard). Accurate positioning of all axes thanks to encoder.

Main transmission through high performance belts and oil-bathed gear. Inverter provides spindle rev. changes.

Mobile control pad can be connected to water-tight electrical cabinet.

Terminal on control panel comprises display and keyboard and operator instructions, alarms and operating parameters can be viewed in real time.



Technical Specifications

Max. blades diameter	mm	3600
Blade longitudinal stroke	mm	4000
Bridge translation	mm	12000
Blade vertical stroke	mm	1750
Blade shaft diameter	mm	110
Max. cutting depth	mm	1250
Adjustable slide forward speed	m/min	0 - 18
Blade motor power	KW	92
Water consumption at 3 bar	l/min	200
Weight	kg	13000

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O.M.G.M Bellani

Linea 23 – Flat Edge polisher

The Edge-polisher “LINEA” combines the simplicity of operations with a small footprint. It can work straight profiles and chamfers, even on really limited and minimum widths (7/8 cm) and difficult to achieve with other brands of the same branch machinery.

The LINEA has been designed and built specifically to take advantage and work pieces of very tight material that would otherwise go to waste.

Continuously variable speeds and adjustable to adapt to the type of material being processed, with swinging heads for polishing to perfection also slabs not exactly squared and increase the speed of execution of the straight edge. Fast and compact. Ideal for window sills, baseboards, backsplashes, thresholds, with thicknesses between 1 and 4 cm.

Technical Specifications

Technical specifications			
Min/Max workable width	mm		80
Max workable width with fully extended hydraulic rod	mm		2500
Min/Max workable thickness	mm		10-40
Worktop height	mm		960
Conveyor advance speed	mm/min		20-2000
Calibrating/shaping tool diameter	mm		120
Calibration/shaping spindle power	Kw		4,0
Number of hydraulic polishing spindles (1 diamond)			8
Polishing tool diameter	mm		130
Number of chamfering tools			1+1 o 2+2
Chamfering spindle power	Kw		1,5
Chamfering tool diameter	mm		130
Diameter of drip-cut disc	mm		150
Power of drip-cut disc	Kw		4,0



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Micron

Fast and compact, designed for slabs from 10mm to 40mm in thickness.

Technical Specifications

Technical specifications		
Min/Max workable width	mm	100-1200
Max workable width with fully extended hydraulic rod	mm	2500
Min/Max workable thickness	mm	10-40
Worktop height	mm	975
Conveyor advance speed	mm/min	20-2000
Calibrating/shaping tool diameter	mm	120
Calibration/shaping spindle power	Kw	4,0
Grinding tool diameter	mm	100
Grinding spindle power	Kw	3,0
Number of hydraulic polishing spindles (1 diamond)		8
Polishing tool diameter	mm	100
Number of chamfering tools		1+1 o 2+2
Chamfering spindle power	Kw	1,5
Chamfering tool diameter	mm	100
Diameter of drip-cut disc	mm	150
Power of drip-cut disc	Kw	4,0

Combines operation simplicity with a very small size and a wide range of different profiles.

It can works every kind of round and straight profiles, bevels included.

Micron was studied to reuse the little pieces of marble otherwise thrown away.

Fast and compact, it is ideal for backsplash and little works. It is the right machine to perfectly work slabs from 10 to 40 mm of thickness.



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Dal Forno

Jib Cranes

The jib cranes, with manual or electric rotation, in both column or wall-mounted models, are designed to handle the goods inside a plant, in a yard or next to a processing machinery.

Jib Cranes Slewing the load, around the constraint axis, pushed by hand or electrically by means of a motor reducer, covering the circular area underneath it, bound by the slewing range of the jib.

Functions

- Lifting a load vertically using the hook of the lifting unit, generally consisting of a chain hoist;
- Traveling of the load with the help of a hoist-carrying trolley, electric or manual, which runs along the jib of the crane (except for the crane with an articulated jib where the hoist is fixed at the jib end);

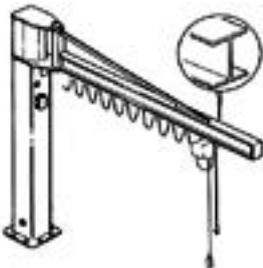


Types

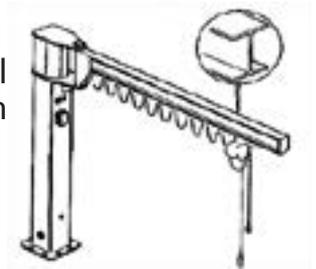
C Series - "C" channel profile jib model
Capacity range 125 to 1000 kg - Jib length 3 to 7 m



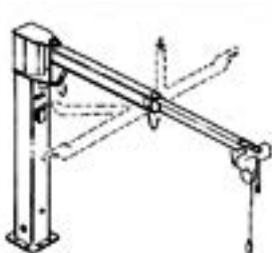
H Series - "H" overbraced jib model
Capacity 250 to 2000 kg - Jib length 4 to 8 m



T Series - "T" cantilever jib model
Capacity 125 to 2000 kg - Jib length 2 to 5 m



S Series - "S" articulated jib model
Capacity 125 to 500 kg - Jib length 3 to 7 m



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Suction Pads

For many years suction pads have been widely used. They can be employed together with lifting systems and allow handling of non-porous materials, using the vacuum produced by a vacuum generator and limited by the suction pad surface, which can then adhere the material to be lifted with a lift capacity of 50kg to 3000kg.

Characteristics

Manufactured with light alloy materials.

Can be tilted 0° to 90°, with manual or pneumatic controlled tilting, to lift and lay down materials both horizontally that vertically.

Provided with sealing of special shape and material, to allow gripping of any material (polished, raw, flamed, bush-hammered, etc.)

In compliance with the EC Machine Directive.

Provided with safety devices: pre-vacuum tank, vacuum gauge, vacuum switch, acoustic and luminous alarm system



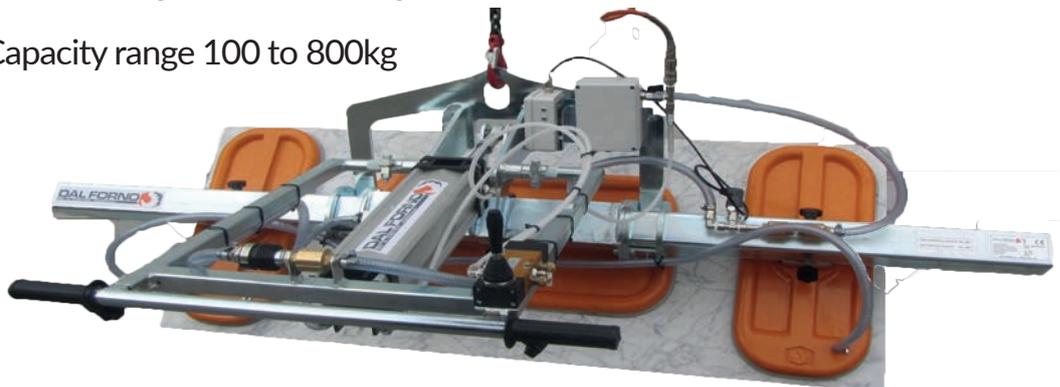
Types

Single Suction Pad - Capacity range 60 to 3000kg

Double Suction Pad - Capacity range 125 to 1000kg

Triple Suction Pad - Capacity range 185 to 1500kg

Curve Suction Pad - Capacity range 100 to 800kg



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Italmecc

Water Clarifier C series

The C series is for the recycling and the clarification process of the water. The separation of the slurry from the water. For saving water reducing the consumption

Technical Features

	C 4	C 8	C 14	C 20
Liters - US gal	4.000 - 1.056	8.000 - 2.113	14.000 - 3.698	20.000 - 5.283
Diameter mm - ft	1.600 - 5.2	2.200 - 7.2	2.200 - 7.2	2.200 7.2
Height mm - ft	3.120 - 10.2	5.070 - 16.8	6.570 - 21.7	8.070 - 26.7
Lowered Height mm - ft	N.A.	4.070 - 13,5	5.570 - 18,4	7.070 - 23,3
Lt/min without flocc* - gal	~120 - 31,5	~200 - 52,6	~300 - 79,2	~400 - 105,5
Lt/min with flocc* - gal	~300 - 79,2	~420 - 111	~600 - 158,4	~800 - 211,2
Filter bag	0,4 m3	0,4/0,6 m3	0,4/0,6 m3	0,4/0,6 m3
Weight Kg - Pounds	333 - 734	860 - 1.895	1.060 - 2.236	1.280 - 2821
Pump (EU-AU)* HP-kW-A	1,2-0,9-2	1,9-1,4-3,8	4,7-3,5-8	4,7-3,5-8
	400-415 V	400-415 V	400-415 V	400-415 V
	50 Hz	50 Hz	50 Hz	50 Hz

Customer Specification

Water plants are built on customer specifications and can include the following features:

- Dirty Water Filter
- Silo Filter
- Chemical Mixers
- Discharge bags and accessories
- Boosting pumps, with or without inverters



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ECOfanghi Dehydrator - Sludge Dehydrator

Automatic, cost-effective, useful and easy to use ECOfanghi is entirely built in stainless steel. It is suitable both for indoor and outdoor installations. It is certainly the most economic and practical system to eliminate sludge from decantation tanks, making it compliant with the EC regulations on pollution.

Technical Features

Overall dimensions (LxWxH):	mm 2850x500x1650	ft 9,35x1,64x5,41			
Weight:	Kg 270 - Pounds 594				
Pump (EU-AU):	Hp 0,75	kW 0,55	A 1,4	Volt 400/415	Hz 50
Pump (USA-CDN):	Hp 0,75	kW 0,55	A 3,0	Volt 230/600	Hz 60
Bags each:	Lt. 100 - US/gal 26	m ³ 0,1 - ft ³ 0.3			
Tank:	Lt. 400 USgal 105	Usgal 105			

Thanks to the special trolley (OPTIONAL) the bags are easily removed. The new anchoring and bag-removal system has been designed to ensure maximum ease of use and safety even if the bags are full. Economy is available in the following versions: with 5, 3 and 2 bags.



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Flocculent / Polyamine Dosing stations

These stations provide very high filtration performance and stability of the depuration parameters. Flocculent do not damage machine and pipes if used of high quality with salt $\leq 1\%$ in its composition. And Polyamine optimises the filtration process without damaging machines or pipes.

Flocculent

Very high filtration performance and stability of the depuration parameters, water became crystal clear.

Flocculent do not damage machine and pipes if used of high quality with salt $\leq 1\%$ in his composition.

The Station could be provided with a full automatic system for the preparation of the Flocculent. (Like showed in the picture)



Polyamine

Polyamine is necessary if in a laboratory it is used from $\sim 70\%$ and more Marble-resin or Quartz-resin.

Optimization of the filtration performance and stability of the depuration parameters.

No more whitish water coming out from the silo but just crystal clear water.

Polyamine do not damage machine and pipes if used pure and of high quality.

Polyamine is a chemical ready to use, is not necessary to wait time for the chemical reaction.

Technical Features

SKID

Dimensions: (\varnothing x H)	mm 680 x 1350 / 610 x 920	In. 26,7 x 53 / 23,9 x 36,1
Tank capacity:	L 315/230	USgal 83,1 / 60,6
Motor mixer:	kW 0,18	
Voltage (EU-AU):	Volt 400/415	50 Hz A 0,7
Voltage (USA-CDN):	Volt 230/600	60 Hz A 1,14 / 0,6

MOTORIZED PUMP

Power:	kW 0,37		
Voltage (EU-AU):	Volt 400/415	50 Hz	A 1
Voltage (USA-CDN):	Volt 230/600	60 Hz	A 1,7 / 0,8

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Air Dry 300 / 430

This self-cleaning, PLC-controlled dust suppression system can be adapted to any work thanks to its' compact size. It also complies with EU directives and standards.

Technical Features

Overall dimensions (LxWxH):	mm 4.330 x 950 x 2.230	ft 14,20 x 3,11 x 7,32		
Fan Motor (EU-AU):	kW 2,2 + 2,2	A 5,4 + 5,4	Volt 400/415	Hz 50
Fan Motor (USA):	kW 2,2 + 2,2	A 10 + 10	Volt 230	Hz 60
Fan Motor (CAN):	kW 2,2 + 2,2	A 3,8 + 3,8	Volt 575	Hz 60
Nominal extraction power:	m ³ /h 10.000 + 10.000	ft ³ /h 353.146 + 353.146		
Effective extraction power:	m ³ /h 7.650 + 7.650	ft ³ /h 266.978 + 266.978		
Noise level:	dB 82 (self cleaning noise) - dB 76 (normal use)			
Dust blasting:	99,5%			



Characteristics

It is self-cleaning

Cleaning and maintenance reduced practically to zero

It is a PLC-controlled dust suppression system

Low energy consumption

Uses special self-cleaning, water-repellent filters

Can be adapted to any kind of work

Compact size

Machine body made of hot-galvanised zinc

Complies with European, US, Canadian and Australian directives and standards

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Air Box Dust Collector

The new air box's are fitted with the latest fans and innovative blasting systems and replace the old systems with belt motor and water film cleaning. Thanks to such combination it was possible to achieve a high degree of suction, cleaning and reliability.

Characteristics

Can be adapted to any kind of work

Choice of 18 different versions

Compact size, suitable for any environment

Ergonomic design for easy cleaning

Dust suppression system using water in 3 stages and without filters

Self-flushing nebulisers

Machine body and pump in thick stainless steel

Complies with European and US directives and standards

Low energy and water consumption



Technical Features

Mod.	Dim E	Dim F
Air Box 2100	2.100 mm - 6,89 ft	2.100 mm - 6,89 ft
Air Box 2100 Plus	2.100 mm - 6,89 ft	3.100 mm - 10,17 ft
Air Box 3100	3.100 mm - 10,17 ft	3.100 mm - 10,17 ft
Air Box 3100 Plus	3.100 mm - 10,17 ft	4.100 mm - 13,45 ft
Air Box 4100	4.100 mm - 13,45 ft	4.100 mm - 13,45 ft
Air Box 4100 Plus	4.100 mm - 13,45 ft	5.100 mm - 16,73 ft

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Magnum Suction Arm

This innovative articulated extraction arm is particularly effective thanks to its lightweight manoeuvrability. No need for adjustments over time thanks to a particular patent which keeps it always as the first day. turn 360°, and due to powerful motor supplied can attract dust of all types up to 10 meters away.

Characteristics

It is necessary to expand the work area of up to 10Mt. away from the machine.

Arm mounted on steel frame complete of wheels.

Cleaning and maintenance are practically zero.

Low energy consumption.

It has been studied for particular works where it might be necessary an higher aspiration zone.

Compact size.

Machine body made of hot-galvanised zinc.

Complies with European, US, Canadian and Australian directives and standards.

Self-supporting extendable Arm.

Connectable to all the dust suction Cabins.

All exterior adjustments on dust Arms.



Technical Features

Overall dimensions (Ø X L):	Ø 200mm - Arm lenght 3.000 mm	Ø 8in - Arm lenght 9,8 ft
	Ø 200mm - Extension pipe 10.000 mm	Ø 8in - Extension pipe 33 ft
Fan Motor (EU-AU):	kW 0,75 - Hp 1	Volt 400/415 Hz 50
Fan Motor (USA-CDN):	kW 0,75 - Hp 1	Volt 230/600 Hz 60
Effective extraction power:	m³/h 1.500 - ft³/h 52.972	
Noise level:	dB 50	

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Donatoni

DM1 - Manual single disc cross cutting machine

A cross cutting machine with the power to use advanced technologies for cutting strips of marble and granite to obtain processed pieces of different sizes.

Characteristics

Support table made of nylon idle rollers;

Automatic 2-clamp workpiece blocking system that ensures total sawing precision;

Custom-size cuts thanks to mobile disappearing locators mounted on the work table;

Work with a Delt-drive motor/spindle system with the possibility of changing RPM according to the material to be cut;

Employ an inverter that controls spindle carriage feed with speed slow down during terminal cutting phases to reduce workpiece breakage and with fast cutting-unit return speed to reduce processing times;

Disk motor is positioned where it is protected as much as possible from processing waste and jets of water, guaranteeing safety, durability and reliability.



Technical Specifications

TIPO	DM1 - 350	DM1 - 400
Useful cutting width	610 mm (opt. 800 mm)	610 mm
Disk/disks diameter	350 mm	400 mm
Maximum cutting thickness	75 mm	100 mm
Disk/disks motor power	7.5 kW	9 kW
Spindle feed motor/motors power	0.75 kW	0.75 kW
Pneumatic clamps	2	2
Water consumption	20 l/min	20 l/min
Compressed air consumption	15 l/min	15 l/min
Machine weight	1350 kg ca.	1400 kg ca.
Overall dimensions	3500 x 2300 x 1800	3500 x 2300 x 1800

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APL - Automatic cross cutting machine

Series APL cropping machines are the latest evolution in Donatoni cropping machines. They are designed to cut ever-wider slabs in a single pass, guaranteeing precision and high productivity.

Characteristics

Forks with single-pass cutting for marble of various lengths and thicknesses, guaranteeing precision and high productivity;

Solid structure supports and handle heavy slabs;

Supporting surface is comprised of a thick, motorised rubber belt, offering two speeds: a fast one, to approach the required measurement, and a slow one, for precise material positioning;

Fitted with pneumatic clamps, to hold down the slab, synchronised with the cutting phases;

Allows the operator to perform made-to-measure cuts thanks to manually adjustable recessed reference marks fitted on the bench;

Operates with motor/spindle, with belt transmission, with the possibility of rpm variation based on the material being cut



Technical Specifications

TIPO	APL-B 06-080	APL-B 06-200	APL-B 10-080	APL-B 08-200
Useful cutting width	610 mm	610 mm	1000 mm	800 mm
Maximum cutting thickness	400 mm	625 mm	400 mm	625 mm
Maximum cutting thickness	80 mm	200 mm	80 mm	200 mm
Disk/disks motor power	11 kW	15 kW	11 kW	15 kW
Installed power	14	18	14	18
Water consumption	20 l/min	20 l/min	20 l/min	20 l/min
Compressed air consumption	15 l/min	15 l/min	15 l/min	15 l/min
Overall dimensions	3800 x 1800 x 1800	3800 x 1800 x 1800	3800 x 2500 x 1800	3800 x 2500 x 1800
Machine weight	2100 kg ca.	2250 kg ca.	2400 kg ca.	2550 kg ca.

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SC2 - Splitting machine

This machine is designed to split marble and granite workpieces with a maximum 150 mm widths. It makes high precision cuts of specific products (such as skirtings, frames, samples).

Characteristics

Sturdy and compact, encased with guards that reduce noise, retain process water and ensure operator safety;

Composed of two flanks housing the opposed spindle units positioned vertical with respect to the cutting plane so that the machine operator can supervise processing;

Cutting precision is guaranteed because the spindles remain stationary and changes in workpiece thickness come from vertical table motion, shown on a specific display;

Marble workpieces can be cut using 4 spindle units; granite and hard stones can be cut using 6 spindle units;

Device automatically slows down conveyor belt speed during the cutting process whenever any one of the cutting units exceeds the safety limit;



Technical Specifications

TIPO	SC2 / 2G	SC2 / 4G	SC2 / 6G
Belt motor power	0.75 kW	0.75 kW	0.75 kW
Useful table length	3500 mm	3500 mm	3500 mm
Overall dimensions	3750 x 1750 x 1800	3750 x 1750 x 1800	3750 x 1750 x 1800
Machine weight	2600 kg ca.	2800 kg ca.	3000 kg ca.
Water consumption	20 l/min cad.	20 l/min cad.	20 l/min cad.
Disk/disks motor power	7.5 kW cad.	7.5 kW cad.	9 kW cad.
Maximum cutting thickness	30 mm	30 mm	30 mm
Disk/disks diameter	400 mm	400 mm	400 mm
Useful cutting width	75 - 150 mm	75 - 150 mm	75 - 150 mm
Spindle units	2	4	6

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RMG - Multiblade trimming machine

RMG is designed for single-pass longitudinal cutting of materials of different kinds, of various thicknesses, of different sizes.

Characteristics

Features a compact and clean design, with attention to operator safety;

Motor-spindle bridge structure, with 2 columns which guarantee stability and cutting accuracy;

Works by means of a motor-spindle, with belt drive, equipped with diamond disk carrier shaft separated by special aluminium shims that ensure cuts with different widths;

Supporting surface consists of a high thickness motorised rubber belt, with inverter-controlled feed rate adjusted with the potentiometer;

Vertical bridge stroke ensures the easy adjustment of the cutting depth according to the tool wear;

Equipped with a lateral guide system that keeps the material aligned during the cutting process.



Technical Specifications

TIPO	RMG 06	RMG 10
Useful cutting width	610 mm	1000 mm
Useful table length	2850 mm	2850 mm
Disk/disks diameter	MIN 300/MAX 400 mm	MIN 300/MAX 400 mm
Cutting thickness	MAX 50/MAX 100 mm	MAX 50/MAX 100 mm
Disk/disks motor power	11 kW	15 kW
Vertical sled/bridge carrying spindle/motor travel	150 mm	150 mm
Installed power	13 kW	17 kW
Water consumption	60 l/min	90 l/min
Overall dimensions	2800 x 2200 x 1900	2800 x 2600 x 1900

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Wires Engineering & Co.Fi.Plast

Falcon 101 - Single Wire Saw

FALCON 101 is a single-wire machine properly designed to square blocks and cut slabs.

Its very high reliability is ensured by the lack of vibrations, together with a very limited number of parts subject to wear. F101 consists of two columns joined by a cross member on top, creating a solid and rigid portal-like structure. Two skids slide inside each columns, with four 1,000-mm diameter aluminium wheels mounted on them.

Wire is tensed by pneumatic actuators, acting on two upper wheels. The wire downward speed is controlled by an electronic system, referring to the Amp. Value set by machine operator. The upward and downward movement of 2 skids is obtained by using a trapezoidal screw with double cross-head nuts for wear control with a single centralized command located at the centre of top joining cross member. The control flywheel is directly driven by a motor-reduction gear unit, ensuring maximum rigidity to the cutting unit.

F101 is equipped with a waterfall system for diamond wire cooling. This plant is controlled by a flow meter, to shut down the machine in case of water shortage and prevent any damage from diamond wire overheating.

The block-holding trolley can be equipped with a rotating table and its movements are managed by the machine logic. The whole electric system hardware is located in a tight cabinet, whose monitor with control button strip is located on the front side. They allow controlling and managing all operations, possibly displaying all parametric data as well. This control logic is managed by PLC technique. All motors are controlled by inverters. An emergency button is also provided for, to immediately stop the cutting operations. The machine is equipped with a complete system of perimeter security fencing according to current regulations on safety at work.



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EasyPlus - Multi-wire Saw

Cutting system with multiple diamond wires for the realization of slabs of different thickness.

GLOBAL STRUCTURE OF THE MACHINE

It is essentially composed by the following components:

- N°2 principal columns
- N°1 cross beam
- N°2 cutting groups (right and left)
- N° 2 auxiliary supports
- N° 1 block trolley (Stationary)
- N° 1 perimeter security fencing

The two principal columns, connected thanks to a crosstie, form a solid portal structure, able to support the cutting groups. The portal structure is realized in electroplated steel, while the cutting groups vertically shift respect to the portal structure sliding on tempered steel tracks thanks to a snail-trapeze screw system.

The choice of the carpentries, paints and surface treatments maximize the machine long-life thanks to the sequence of the surface treatments realized for the construction of a stable and resistant structure.



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