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 R.E.A. Vicenza 311307 - Export VI 055496
 Reg. Imp. Cod.Fisc. P.IVA: 03262280245
 Cap. Soc. Euro 500.000,00 i.v.
 Telai per la segagione dei blocchi di marmo e granito
 Gang saws for sawing marble and granite blocks
 E - m@ail: info@bmofficine.it
 Web site: www.bmofficine.it

MESSRS:



PROFORMA INVOICE N. 364/12 - 08/10/12.

**N.1 MULTI WIRE GANG SAW WITH 76 WIRES
 FOR CUTTING MARBLE AND GRANITE BLOCKS
 MODEL: "KODIAK 76"**



TECNICAL DATA:	MEASURE UNIT:	VALUES:
USEFUL CUTTING SIZE	mm	LENGHT: 3700 WIDTH: 2200 HEIGHT: 2200
MAIN MOTOR	KW	250
AUXILIARY MOTOR	KW	11
WIRE LENGHT	mm	24500



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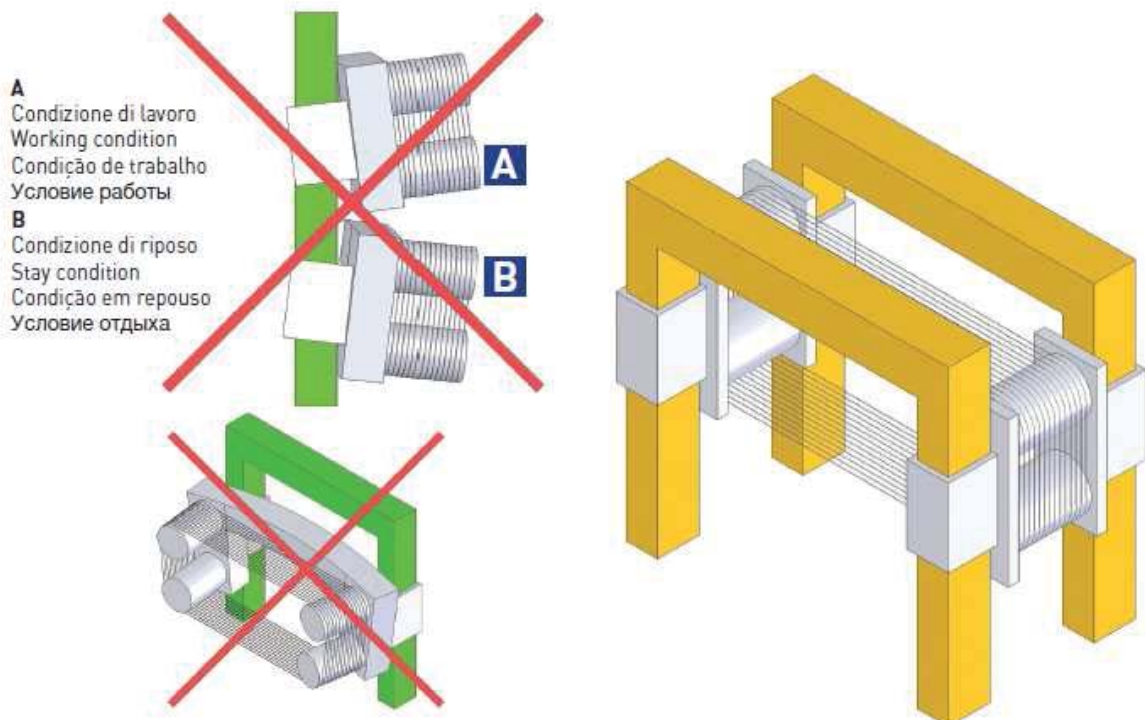
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MAIN CHARACTERISTICS OF THE MULTIWIRE "KODIAK BM":

- NUMBER OF COLUMNS OF THE MACHINE: 4 COLUMNS BM

THE "KODIAK BM" IS CONSTRUCTED ON 4 COLUMNS.

IT MEANS THE ROLLER-WHEELS WHERE ARE LOCATED THE WIRES ARE UNDER STRONG TENSION AND THEY ARE CONNECTED TO 4 COLUMNS, NOT ONLY 2. WITH A STRUCTURE BASED ON N.2 COLUMNS, THE TENSIONED SET OF DIAMOND WIRES MAKES A BIG FLEXION TO THE MACHINE FRAME, SO WHEN THE TENSION IS REMOVED, THEY CHANGE THE POSITION AND THEY WOULD NOT GET IT BACK WHEN THEY WILL BE TENSIONED AGAIN. SO THE POSITION OF THE WIRES BEFORE REMOVING THE TENSION IS NOT THE SAME POSITION THEY HAVE AFTER GIVING THE TENSION AGAIN. THIS MOVEMENT MAKES A DEFECT ON THE SURFACE OF THE SLABS CALLED LINE/STEP. WITH A 4 COLUMNS GANG SAW, THIS PROBLEM DOES NOT EXIST BECAUSE THE FRAME OF THE MACHINE IS MUCH MORE RIGID AND WHEN THE TENSION OF THE WIRES IS BEING REMOVED, IT DOES NOT EFFECT THE MOVEMENT OF THE WIRES.



四根柱子比二根能維持鋼索輪的平行度,相較下切割狀況會比較好



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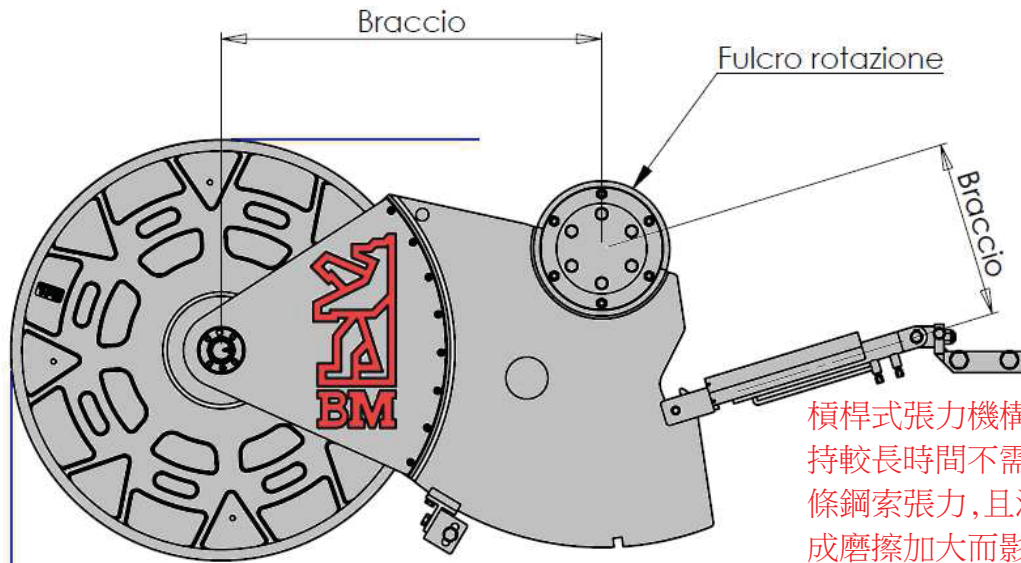
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- USEFUL CUT SIZE IN WIDTH: 2200 MM.

- STROKE OF WIRE TENSIONING SYSTEM: 300 MM.

BIGGER IT IS THE CAPACITY OF STROKE (STRETCHING THE WIRE) BETTER AND EASIER IT IS TO KEEP THE TENSION HOMOGENOUS FOR ALL WIRES AND ALSO USE LONGER TIME THE WIRES, SINCE THE WIRE WORKING WILL BECOME LONGER.

- TENSIONING SYSTEM: HYDRAULIC.



槓桿式張力機構有達300mm的高行程,能維持較長時間不需調整鋼索長度還能保持每條鋼索張力,且沒有因土垢、鏽斑等因素造成磨擦加大而影響張力不足的困擾
不鏽鋼的鋼索輪不易鏽蝕幾乎不需更換

- MATERIAL OF THE PULLEYS: STEINLESS STEEL

THE STEINLESS STEEL IS DEFINITELY THE BEST.

THE WHEELS ARE MADE IN STEINLESS STEEL AND WOULD NEVER NEED TO BE REPLACED. THEY HAVE BEEN PROJECTED TO SURVIVE TO THE WEARING AND WORKING CONDITIONS, AND THEIR LIFE SHOULD BE ETERNAL.

- LENGHT OF WIRE: 24500 MM BM

LONGER IT IS THE WIRE AND LESS TIMES YOU NEED TO OPEN THE MACHINE TO CHANGE THE COMPLETE SET OF WIRES BECAUSE LONGER IT IS THE WIRE AND MORE SQUARE METERS IT CAN CUT. A SHORT WIRE MEANS THAT NEED TO CHANGE MANY TIMES THE SET OF WIRES SINCE IT CUTS LESS SQUARE METERS, CONSIDERING SAME PERFORMANCE PER EACH LINEAR METER OF WIRE.



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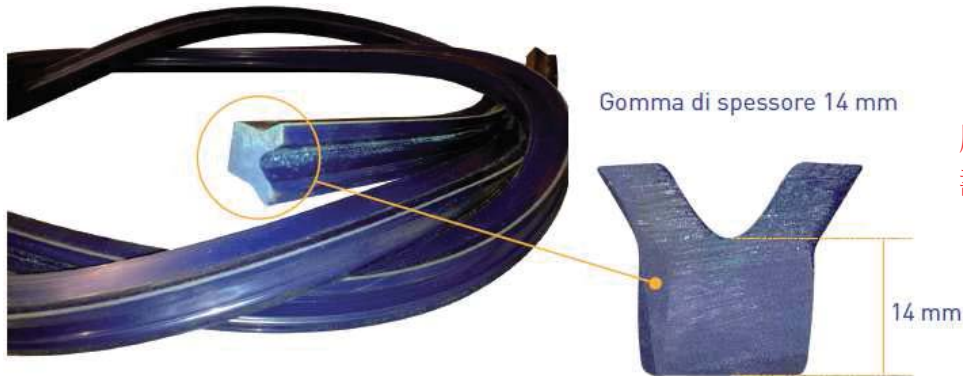
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- RUBBER PROFILE:

KODIAK BM INSTALLS A RUBBER PROFILE OF 14 MM THICKNESS.



厚度夠大的橡膠條
壽命較長

- PULLEY BEARING FEATURES:

BM USES STANDARD BEARINGS YOU WOULD FIND IN ANY BEARING SHOP
=> **CHEAP MAINTENANCE.** OTHERS USE SPECIAL BEARINGS BUILT WITH SPECIAL CHARACTERISTIC ONLY FOR THEIR MACHINES SO THE CUSTOMER IS OBLIGED TO BUY DIRECTLY FROM THEM. COST OF BEARING IS REALLY VERY EXPENSIVE. THIS MAKES THE MACHINES HAVING A **VERY HIGH MAINTENANCE COST.** 使用標準規格軸承保養費低廉也容易取得

- EASY CHANGE OF BEARING: 軸承更換容易

KODIAK BM SYSTEM ALLOWS TO TAKE OUT COMPLETELY 80 WHEELS AND CHANGE THE BEARING OF EACH WHEEL IN 4 HOURS.
WITH THE MACHINES OF THE OTHER COMPANIES, IT WOULD TAKES AROUND 2 DAYS TO TAKE OUT ALL THE WHEELS AND CHANGE EACH BEARING.

- PROTECTION OF THE BEARINGS: 軸承的特別防護隔離水與髒污讓使用壽命更長

EACH PULLEY IS MADE WITH A SPECIAL PROTECTION ON THE EXTERNAL PERIMETER, IT IS A KIND OF SHIELD AGAINST THE WATER AND DIRTY.
EACH PULLEY IS ALSO MADE WITH AN INTERNAL SYSTEM WITH SEALS WHICH REPAIRS DIRECTLY THE BEARINGS, AND ASSURES THE LONGEST WORKING LIFE.





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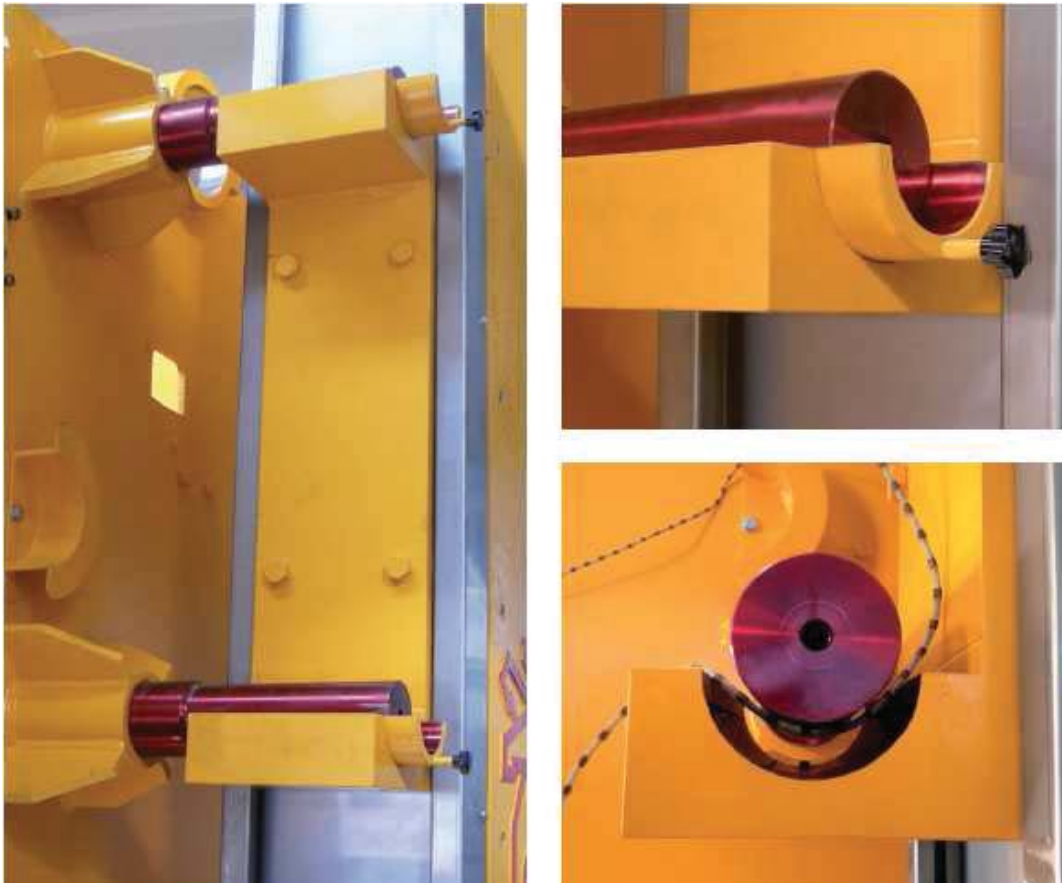
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- WIRE STOCK: 可放入多條備用鋼索方便緊急時替換

BM YOU CAN PUT ALSO SOME MORE THAN 76 WIRES INSIDE THE MACHINE AND STOCK SOME LATERALLY SO YOU CAN USE THOSE IN THE FOLLOWING CUT WITHOUT OPEN THE MACHINE AND INSERT THE NEW WIRES. IT IS AN EASY OPERATION.



- ENTRANCE OF THE TROLLEY:

BM KODIAK 76 CAN BE LATERAL OR FRONTAL ACCORDING TO CUSTOMER REQUEST.

原石入機可由客戶自行選擇由左進入或前方進入

- TROLLEY POSITION:

BM FIX TROLLEY AND WIRES GO DOWN.

WITH THE BLOCK RISING UP IT IS MORE DIFFICULT THE OPERATION OF MOVING AND CHANGING THE WIRES.

台車固定 鋼索下降切割 比原石上升切割方式 容易更換鋼索



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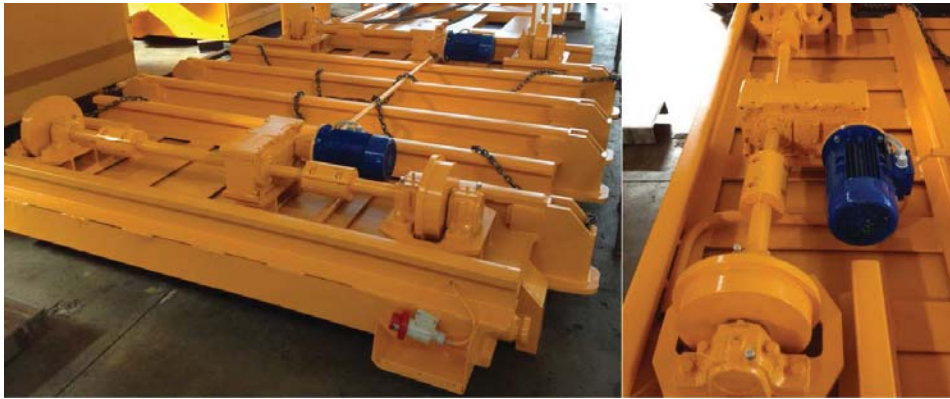


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ACCESSORIES INCLUDED IN THE OFFER:

N. 2 MOTORISED BLOCK TROLLEYS.

WITH 4 MOTORISED WHEELS.



TECNICAL DATA: - DIMENSIONS: mm 3000 x 2300.
- MOTOR: KW. 1.
- CAPACITY MAX: Tons 60.

兩台馬達驅動的台車

N. 1 MOTOR 250 KW CONTROLLED BY INVERTER.

TRASMITTS TO TRACTOR RUBBER ROLLER THE MOVEMENT BY 2 TOOTHED BELTS.



一部二百五十千瓦馬達用變頻器控制轉速

N. 1 MOTOR 11 KW FOR UPFEED/DOWNFEED. 切割升降用一部11KW馬達及
CONTROLLED BY INVERTER AND COMPLETE WITH REDUCER. 變頻器控制



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N. 4 SCREWS DIAM. 90 mm, M12.

COMPLETE WITH N.4 BRONZE LEADNUTS 400 mm LENGHT.

4支直徑90mm 導程12mm 螺桿 400mm 長的銅製螺帽

N. 4 ANGLE REDUCTION GEARS FOR SCREWS ROTATION.

4個直交軸齒輪箱驅動螺桿

N. 1 TRACTOR RUBBER ROLLER OF 1000 mm.

驅動橡膠滾筒直徑1000mm

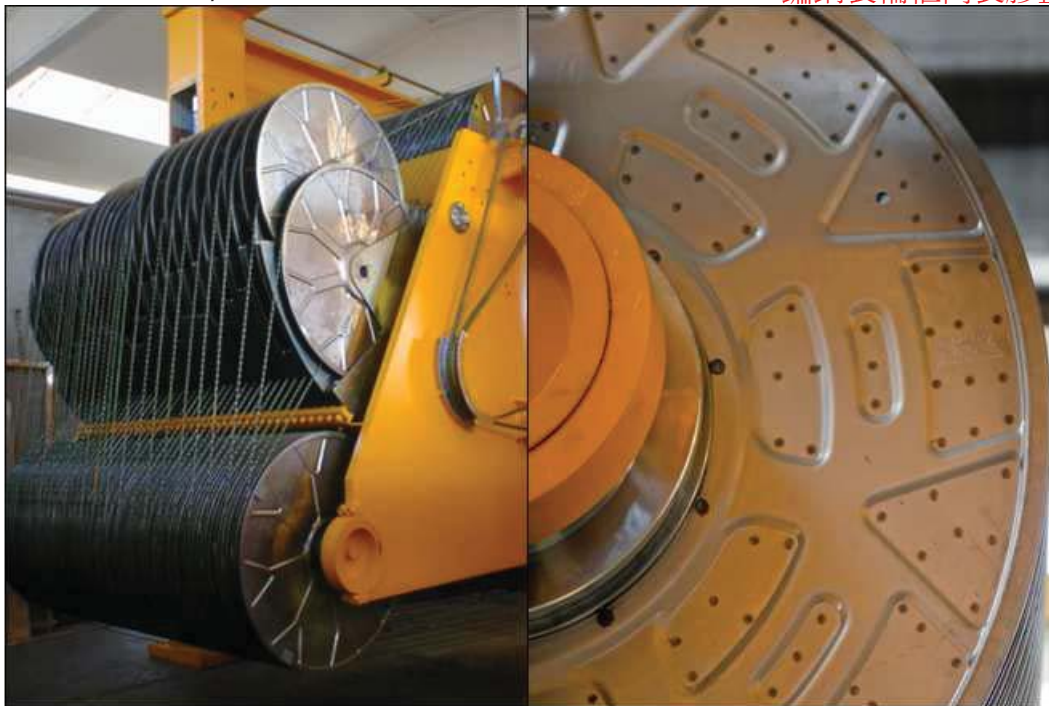
N. 76 RUBBER WHEELS OF DIAM. 1000 mm FOR TENSIONER.

MADE UP IN STAINLESS STEEL, AND INSTALLED ON SPECIAL BEARINGS.

76個張力橡膠滾輪直徑1000mm 以不鏽鋼製輪框內裝特別軸承

N. 152 RUBBER WHEELS OF DIAM. 1000 mm. 152個橡膠滾輪直徑1000mm 以不

INOX STEEL WHEELS, INSTALLED ON SEALED BEARINGS 鏽鋼製輪框內裝膠蓋密封軸承



N. 2 RUBBER GUIDING DRUMS FOR THE DIAMOND WIRES.
DIAMETER Φ 700 mm.



二個橡膠導輪滾筒直徑700mm



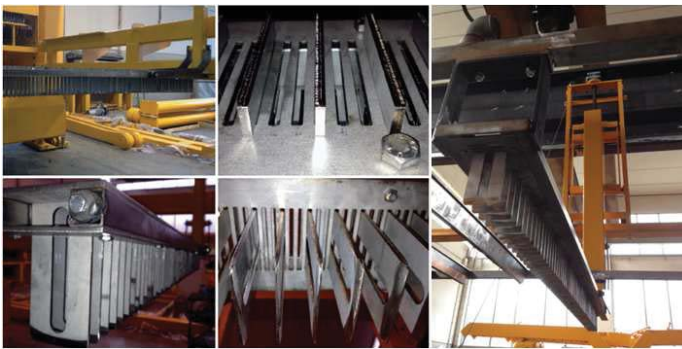
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N. 1 SLABS AUTOMATIC THOOTHED LOCKING DEVICE.



自動分片固定石板裝置

N. 1 MAIN CONTROL PANEL WITH TOUCH SCREEN.



主控制箱使用觸控螢幕

LIST OF SPARE PARTS INCLUDED: 備用零件清單包含:

- N. 5 RUBBER WHEELS OF DIAM. 1000 mm. 5個橡膠輪,輪徑1000mm
- N. 5 RUBBER WHEELS OF DIAM. 1000 mm FOR TENSIONER. 5個張力橡膠輪,輪徑1000mm
- N. 1 COMPLETE SET OF RUBBER. 一整組橡膠

N. 1 KIT RECOVER THE RUBBER OF THE GUIDING DRUMS.



滾筒橡膠整修工具



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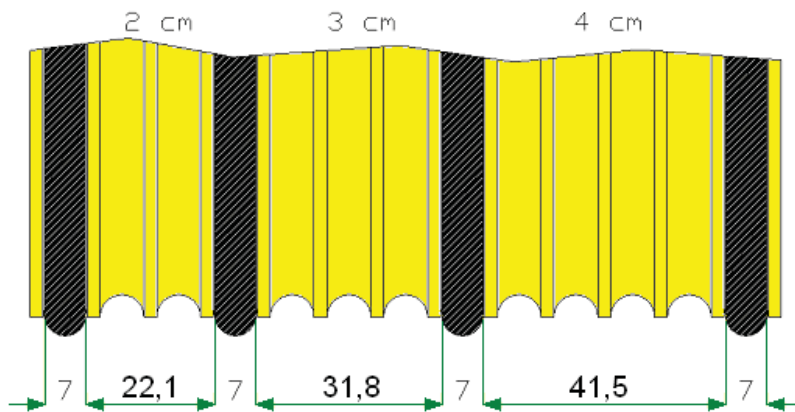
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EASY THICKNESS CHANGING SYSTEM FROM 2 TO 3 CM:

THE MACHINE IS ABLE TO CUT FROM 20 UP TO 100 MM SLABS WITHOUT CHANGING ANY PARTS, IT NECESSARY JUST TO MOVE CORRECTLY THE DIAMOND WIRES ON THE DRIVING ROLLERS:



INSTALLATION OF WIRES:		
N. WIRES:	mm WIDTH:	mm REAL:
76	20,0	22,1
57	30,0	31,8
46	40,0	41,5
38	50,0	51,2
33	60,0	60,9
29	70,0	70,6
26	80,0	80,3
23	90,0	90,0
21	100,0	99,7

很容易的可以更換切割厚度(在放鬆張力下移動鋼索至所需的位置即可)

HYDRAULIC TENSIONING FOR EVERY SINGLE WIRE.

THIS SYSTEM IS OBTAINED BY HYDRAULIC CYLINDERS.

THE WIRES ARE TENSIONED BY THEIR OWN CYLINDERS, A TOTAL OF 76 CYLINDERS PER MACHINE. THE MACHINE IS COMPLETE WITH CENTRAL CONTROL UNIT, WITH ELECTRIC EQUIPMENT, AND OTHER AUTOMATIC SAFETY AND CONTROL DEVICES ENDOWED FOR THE NORMAL WORK.

油壓張力系統由七十六個油壓缸個別拉緊每一條鋼索

A PERFECT CUT IS GUARANTEED:





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DOCUMENTATION:

INCLUDING ALL THE TECHNICAL DOCUMENTS REGARDING THE ELECTRICAL AND FOUNDATION DRAWINGS, PLUS THE MAINTENANCE BOOK IN ORDER TO MAKE QUICKER ALL THE SERVICE OPERATIONS.

GUARANTEE:

THE MACHINE IS GUARANTEED FOR A PERIOD OF 12 MONTHS COVERING ALL MATERIAL AND CONSTRUCTION DEFECTS, STARTING FROM THE DATE OF THE START-UP. ELECTRICAL COMPONENTS EXCLUDED.

INSTALLATION AND TESTING:

ALL THE EXPENSES OF OUR TECHNICIAN AS TRAVELLING (NO.3 PREPAID AIR TICKETS), INTERNATIONAL HOTEL (BOARD AND LODGING), LOCAL TRANSPORTS AND TELEPHONE SERVICE ARE AT THE CHARGE OF THE PURCHASER.

EXCLUSIONS:

THE ELECTRICAL AND WATER CONNECTIONS, OIL, SOAP GREASE, THE FOUNDATION WORKS, DIAMOND TOOLS AND THE LABOUR COSTS ARE AT THE CHARGE OF THE PURCHASER.



QUALITÀ MADE IN ITALY

PROFORMA INVOICE VALIDITY: 31/12/2012.