Multi-Purpose Bridge Saw

HERCULES SERIES GAMMA 500

About

With a robust structure, it is faster in its segment, almost without dead time. It analyzes the materials to be cut and combines several technologies. It is considered a highly profitable equipment with several options of displacement. The length of the bridge between walls of support of 275.1/2 inch / 7 meters allows a displacement of 191 inch / 4.85 meters on sandstone (in the cut of granite by steps will be more) with protection of 51 inch / 1.3 mt or more in the process of vertical steps.

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The length of the bridge between support walls of 208.1/2 inch / 5.3 meters allows a cutting displacement of 124 inch / 3.15 meters in sandstone (in granite section by steps will be more) with protection of 51 inch / 1.3 mt or more in the process of vertical steps, having 4 sizes of length on gama 500.

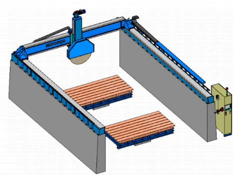
The vertical displacement above 39,1/2 inch / 1 meter allows several cutting steps and great polyvalence at the height of the stone. The vertical displacement of 11,3/4 inch / 0.3 meters allows the process of cutting in sandstone in two stages. There are various types and lengths of displacement heads to receive the multiple rams. It has a digital programmer that allows you to view various menus from the introduction of the cut dimensions to the appropriate drawing of the profile.

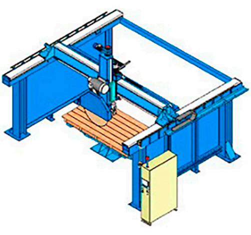
It provides an industrial console to enter the various cutting dimensions and allows controlling the cutting speed by checking the saw's tension. Also allows the return of the cut at maximum speed. There are various types of bench for the best working situation.

Technical Features

☐ ASSEMBLES VARIUS ACCESSORIES FOR MULTIPLE SERVICES

✓ Diameter of Disc Admitted on Multi-work – 51 inch (in) / 1,3 meters (mt)
✓ Diameter only with Vertical Ability – 90,1/2 inch (in) / 2,3 meters (mt)
Multi-work dates:
✓ Maximum Cutting Height – 20 inch / 510 mm (Minimum flange support 11 in / 280 mm)
✓ Regular Vertical Effective Travel – Z axis = 27,1/2 in / 70 cm (Maximum 79 in / 2 mt)
✓ Regular Cutting Capacity on Dual Horizontal Axis = 138 in / 3,5 mt (max. 472,1/2 in / 12 mt)
✓ Power Admitted on Cutting Motor 22 Kw (30 Hp) / 30 Kw (40 Hp) / 55 Kw (75 Hp)
✓ Approximate Minimum Weight – 15,000 ponds / 6,800 kilos (kg) to 18,300 ponds / 8,300 Kg
✓ Maximum Height Required with Automatic Revolving Table – 4,15 meters (mt) or 4,71 mt
✓ Inside distance between headwaters – from 208.1/2 inch / 5,3 meters to 295,1/2 inch / 7,5 meters (for more see gamma 800)
✓ Maximum cutting speed shift – 78,1/2 in / 20 mt by minute or 157,1/2 in / 40 mt by minute
✓ Admitted peripheral speed of the cutting – 20 to 50 mt/sec
✓ Headwaters admitted – 177 in / 4,5 – 216,1/2 in / 5,5 – (concrete only 236 in / 6 – 334,1/2 / 8,5 – 393,1/2 / 10) mt (Maximum 78,1/2 in / 20 mt)





Saw on Mono Bridge Concept

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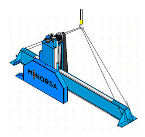
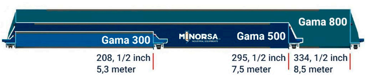


Three gammas allowing full cutting capacities until 58in / 147cm with a low production cost.



Decide maximum cutting capacity
(all adopted features are common across all ranges)

Gamma 500

4 sizes on bridge lenght (until 295,1/2 inch / 7,5 meter)

Pulleys Flange

9 in / 23 cm	disc 23,1/2 in / 60 cm
9,5/16 in / 23,7 cm	disc 28.1/2 in / 72,5 cm

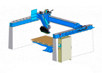
With security system

16,1/2 in / 42 cm	disc 43 in / 1,1 mt
18,1/2 in / 47 cm	disc 47 in / 1,2 mt
19,11/16 in / 50 cm	disc 51 in / 1,3 mt
23,5/8 in / 60 cm	disc 63 in / 1,6 mt
27,9/16 in / 70 cm	disc 70,1/2 in / 1,8 mt
33 in / 84 cm	disc 82,1/2 in / 2,1 mt
37 in / 94 cm (on special and vertical)	disc 90,1/2 in / 2,3 mt

Falange on angular box

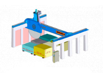
12,3/16 in / 31 cm	disc 35,1/2 in / 90 cm
16,1/8 in / 41 cm	disc 43 in / 1,1 mt
20 in / 51 cm	disc 51 in / 1,3 mt
24,13/16 in / 63 cm	disc 63 in / 1,6 mt

The start of multi-purpose ideal



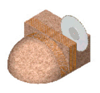
HERCULES SERIES
GAMA 300
MODEL defined by
max. cut - 16.11/16in / 424 mm;
Bridge lenght 208.5/8 in / 5,3 mt

High capacity on discs and lenght



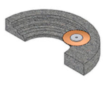
HERCULES SERIES
GAMA 800
MODEL defined by
max. cut - 58 in / 1.470 mm;
Bridge lenght 334.5/8 in / 8,5 mt

Working Types



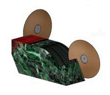
Multiple Axes Movement At Same Time

Can make profiles using several axes, depending of the control system it's possible execute programs generated on cad cam system outside or in proper cad on control machine, the cutting parameters can be changed on machine, the final work quality it's defined by quantity of cross cut spacement



Profiling With Horizontal Saw

Can do that in several systems, the most fast and cheaper it's coordinate the automatic rotation bench supporting above 12tons with the cutting head, can also work with the horizontal saw mixing several axes or milling the stone



Cutting Execution by Lateral Development

This process can be executed in vertical as well in tilt position, to be a fast cutting can order only one axis cutting movement, much used on primary cleaning or in continued parts

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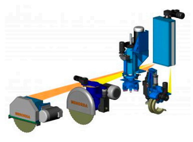
The Hercules Series on Multi-Purpose

- Cutting **Heads**
- Particular **Cad** Draw Programing
- **Inclination** Systems
- Increase **Potential**
- **Lateral Pillars** Solutions
- More Displacement on **Pillars**
- Displacement Cutting **Cars**
- Option Dedicated on **Bloc Saw**
- **Multiple** Bench's
- Working **Bench's**
- Several Length on **Bridge**
- Easy Assembly and **Durability**
- Common **Parts**
- Foot Print
- On Request Part's

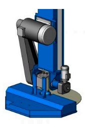
Maximum Potential of the Equipment Using Multiple Cutting Heads



Suitable for ALL heads IN ONE ram , can cut , polish , drill , edge faces and all more.

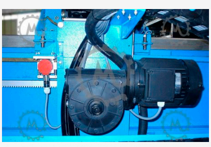
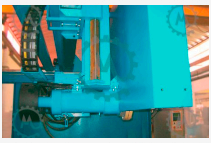
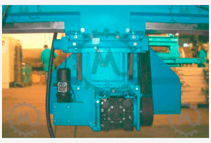
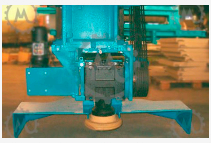
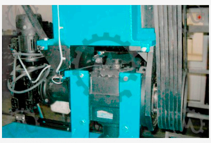
The decision to use multiple heads for multi-operations can be increased even after the equipment is installed. At beginning, it's provided a ram with supports ready to receive all exchange program heads. With this mechanism it is intended that the equipment is constantly evolution and adjust to the market requested by customers.

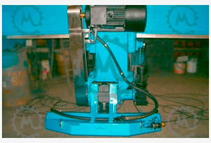
Tilt head until 90º

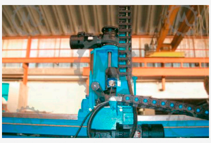
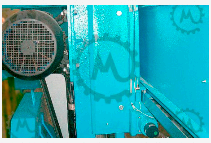
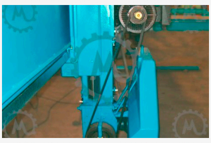
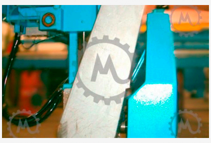


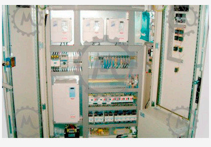
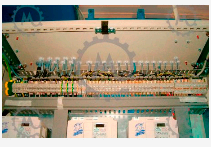
The maximum disc diameter is of 43.1/4 in / 1.100 mm and is defined by cutting car vertical displacement compensation.

Gallery



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