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Revas Technologies SpA
Viale dei Platani 15/2
33050 S. Maria la Longa (UD) ITALY
tel. +39 0432 675430 | 0432 675820
fax +39 0432 675550
info@revastechnologies.it

www.revastechnologies.it

SHS SHG-L SHG-H
band saw machines division

Revas Technologies

Range of application

**Revas Technologies
band saw machines division**

produces a wide range of horizontal sawing machines able to satisfy even the most advanced requirements of the market. Our cutting centres are engineered both mechanically and electrically by our Research and Development Department and the manufacturing is performed into our **Revas** workshops.

Forging:

Ingots cutting (square, circle, polygon shaped)
Specimen cutting
Custom-made cutting of forged products

Metal Service Centres:

Commercial laminated cutting (square, circle, polygon shaped)
Iron plates, slabs, blocks cutting

Mechanical Workshops:

Custom-made raw materials cutting

Machines for:

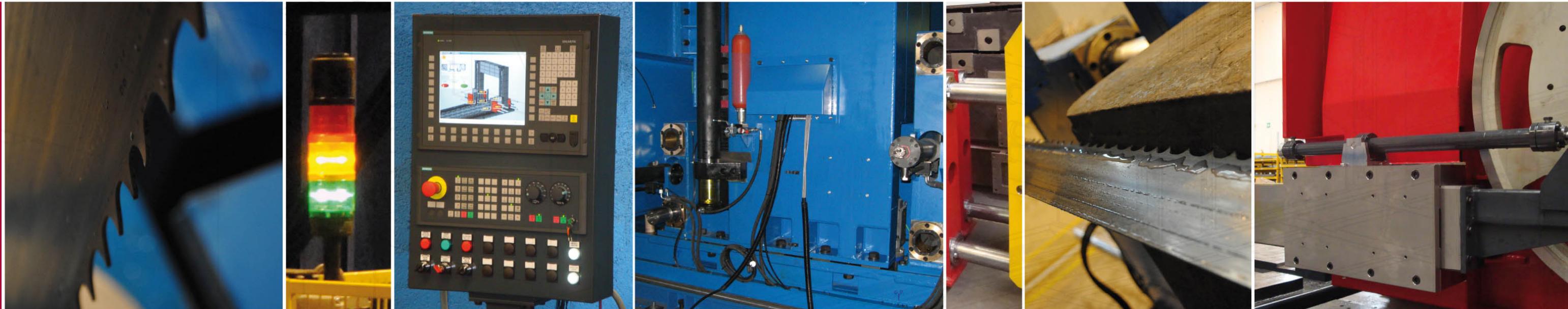
Carbon steel, alloys and high-alloys, stainless steel, aluminium, light alloys, cast iron, copper.

Automation

Automation

Assembly characteristics

Assembly characteristics

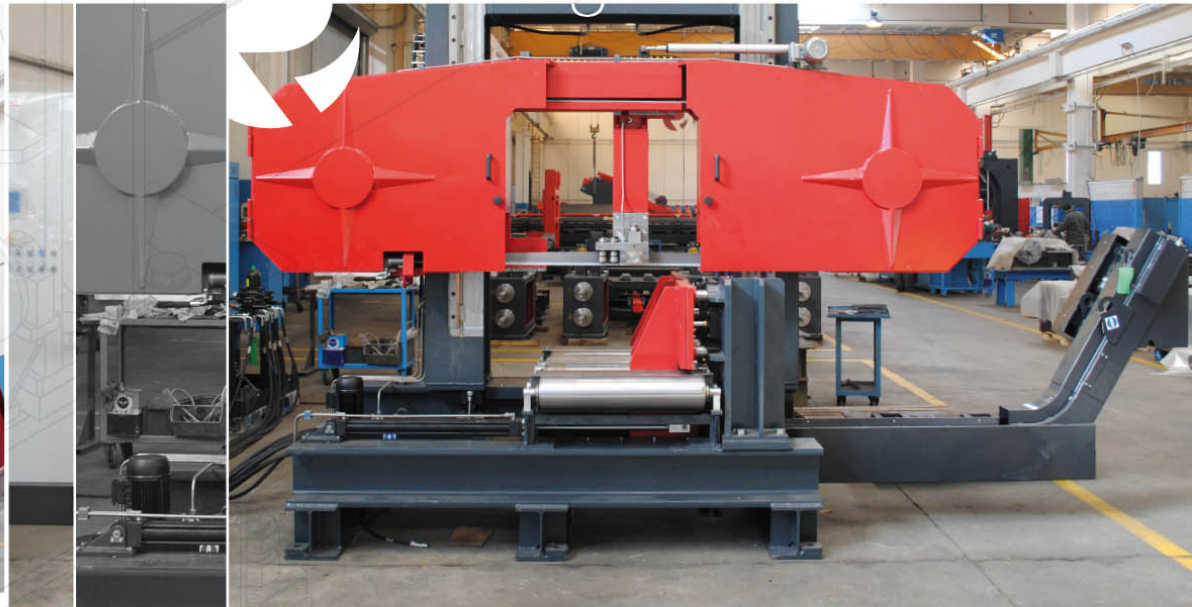
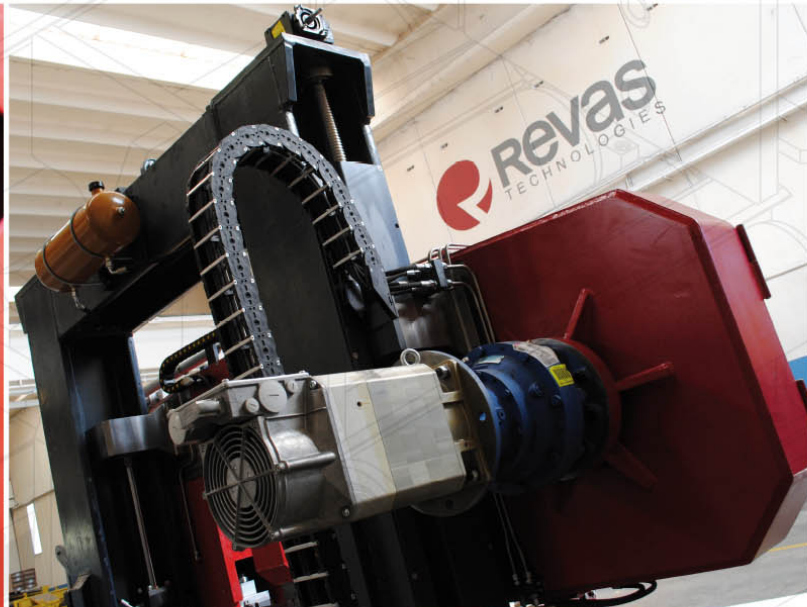
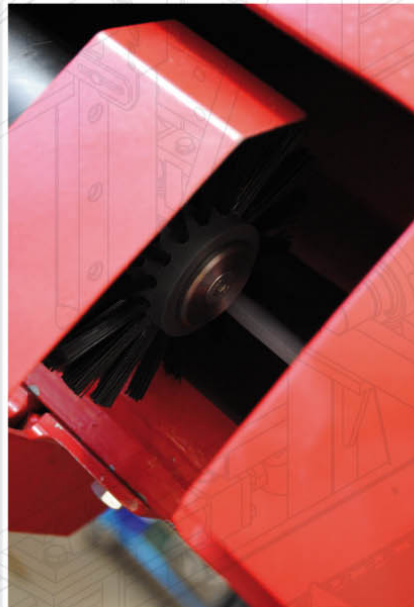
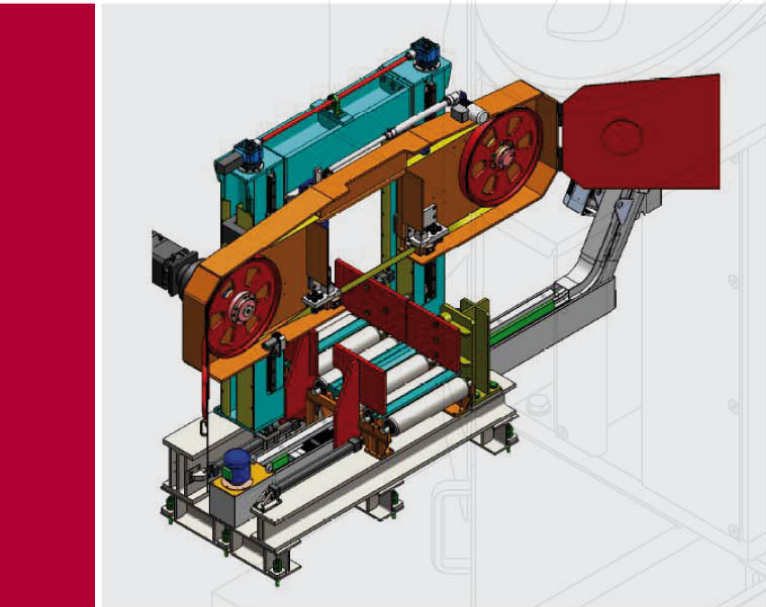
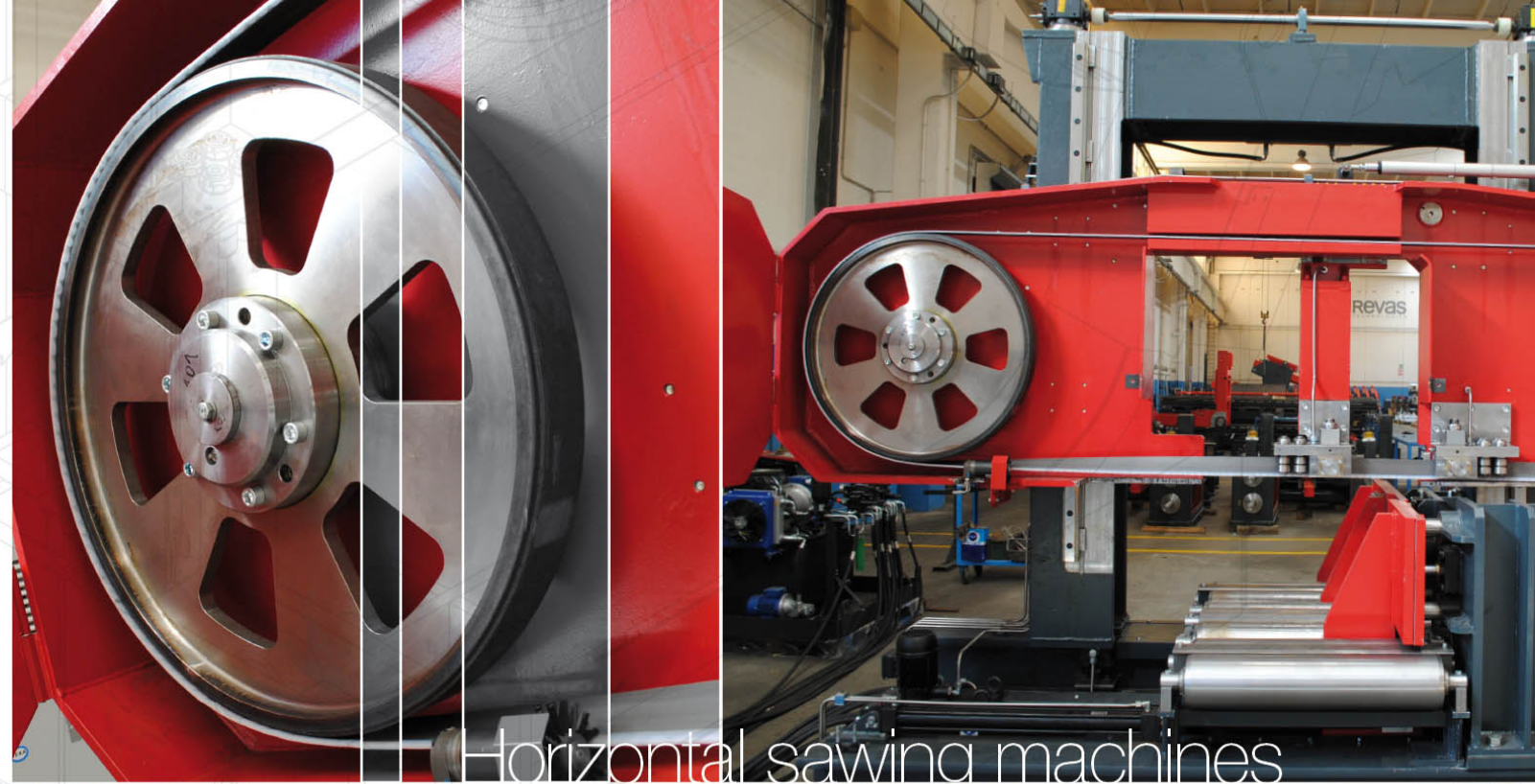


- Our sawing machines are manually/ automatically managed with CNC / PLC
- HMI interface worker machine for programming
- Spindle motor for blade rolling, brushless type coupled with epicyclic gear
- Powered axes for positioning and working, brushless type, coupled with epicyclic gears with reduced backlash
- Automatic management of blade wear, block break and bending
- "Re-trace" function for releasing from working in case of lack of power supply
- Automatic adaptation of the cutting parameters to the working conditions through adaptative/analog control based on absorptions
- Blade control and sliding compensation system
- Laser for cutting tracing lines for the positioning of the item
- Rotating blade guide with continuous repositioning for horizontal and oblique cutting (horizontal sawing machine)
- Automatic hydraulic blade tensioning
- Automatic guide arm positioning

- Bimetal and carbide tipped blades
- Every movement is performed on linear guides with recirculating balls or rolls
- Rack and pinion transmission on longitudinal axes
- Recirculating balls precision screws transmission on vertical axes
- Structures properly shaped with a finite-element analysis program in order to guarantee strength and vibration damping
- Blade dragging flywheel profile specifically projected in order to guarantee a perfect blade guiding and duration
- Blade guide specifically projected in order to guarantee a perfect 90° bending operation, guiding and vibration absence
- Double series of three bearings for a vertical guide of the blade with long lasting roll bearings
- Screw or carpet chip conveyor
- Telescopic metal cover for gliding guides
- Hydraulic cylinders for vice movement and blade guides equipped with precision position transducer for the automatic management of the positions
- Safety barriers complying with the provisions of the Law
- Chip brush motor

SHS

Horizontal sawing machines
Horizontal sawing machines - Fixed portal

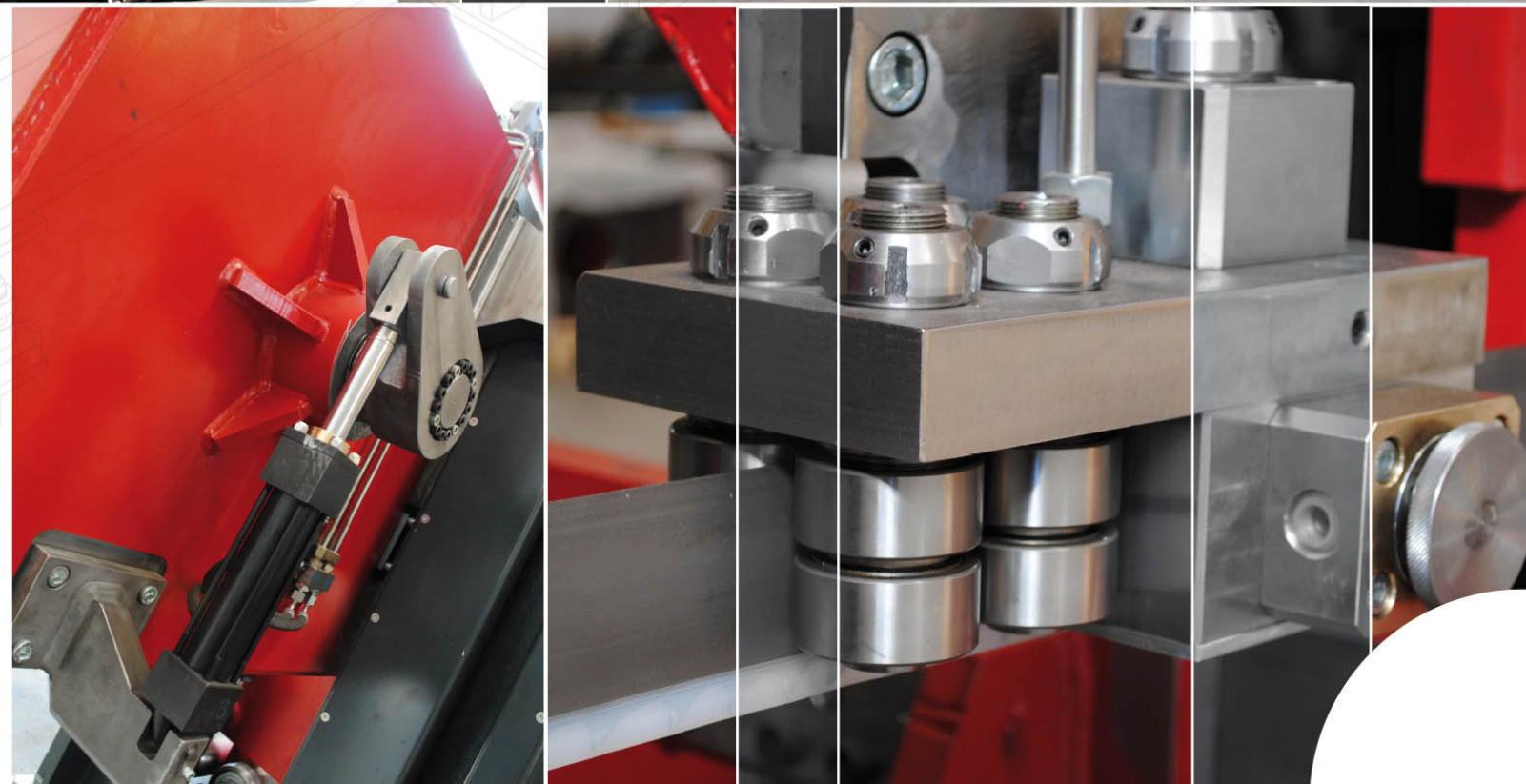


Revas SHS

Model		SHS 700	SHS 1000	SHS 1500
Cutting Capacity	mm x mm	700 x 700	1000 x 1000	1500 x 1500
Blade Speed	m/min	10-120	10-120	10-120
Main Motor Power	kW	12	18,5	18,5
Blade Type	mm x mm	67 x 1,6	67 x 1,6	80 x 1,6
Weight	ton	9,5	16,5	22

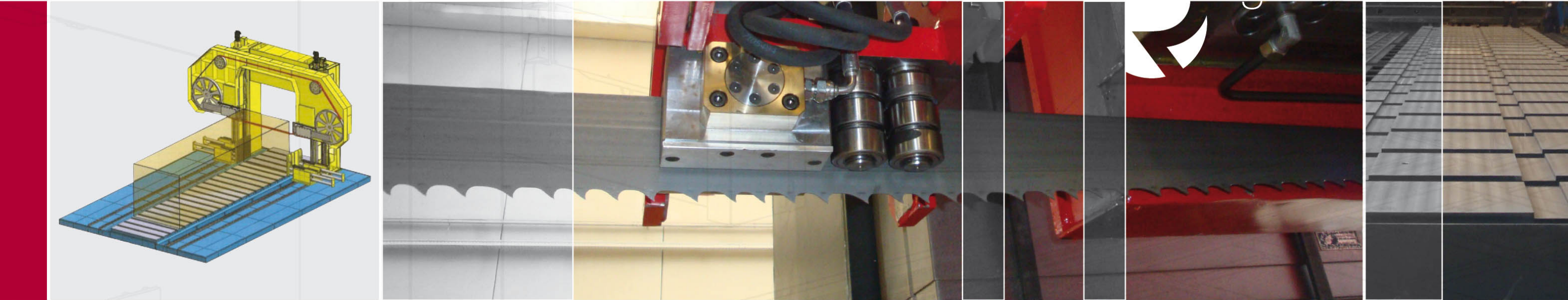
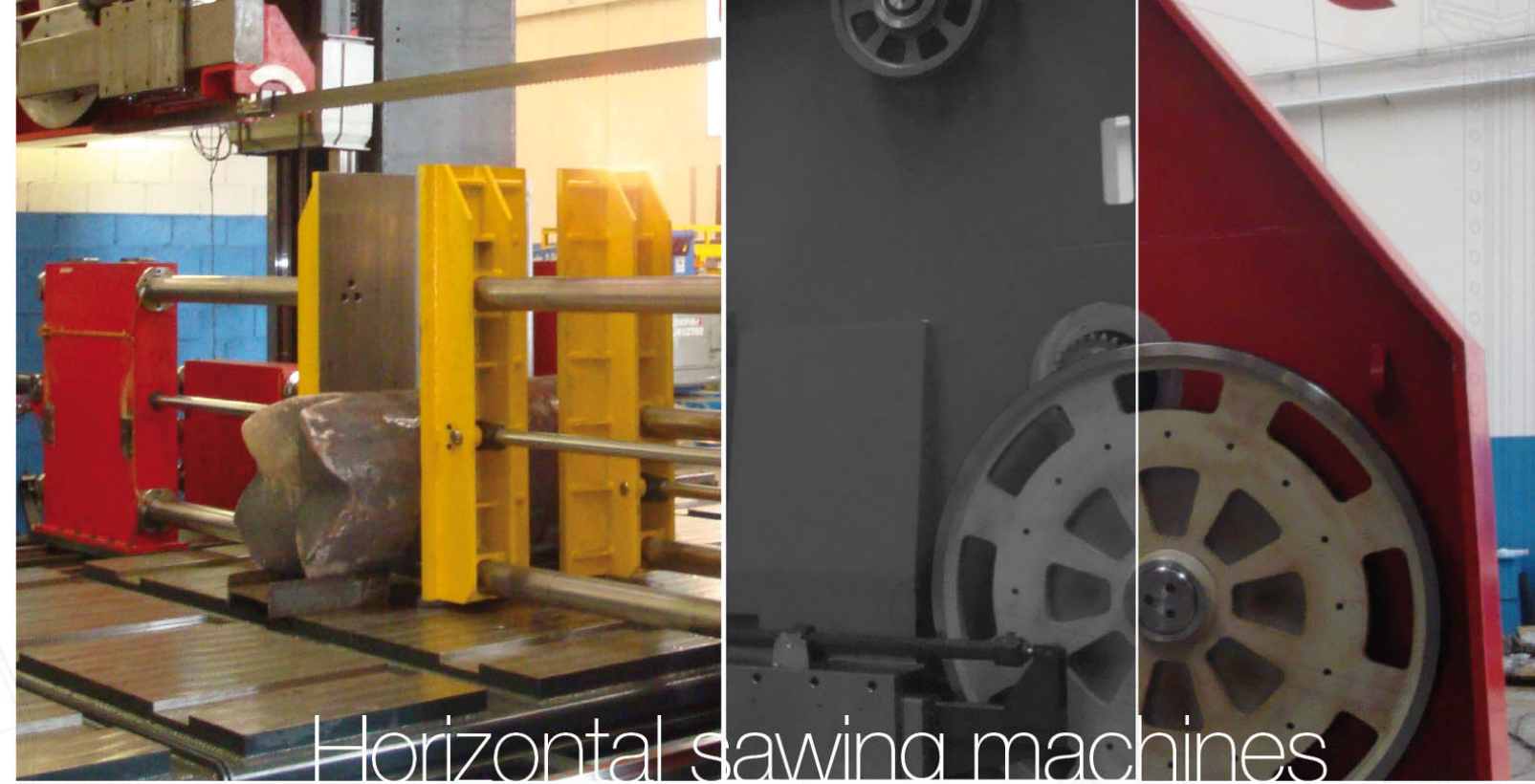
Option

Blade speed up to 200 m/min
Modular feeding roller table



SHG-L

Horizontal sawing machines
Horizontal sawing machines - Gantry | **Light Line**



Revas SHG-L

Model		SHG-L 1000	SHG-L 1500	SHG-L 2000
Cutting Capacity	mm x mm	1000 x 1000	1500 x 1500	2000 x 2000
Blade Speed	m/min	10-120	10-120	10-120
Main Motor Power	kW	18,5	18,5	21,5
Blade Type	mm x mm	67 x 1,6	80 x 1,6	80 x 1,6
Horizontal Working Length	mm	3000 x 6000	3000 x 6000	3000 x 6000
Weight	ton	22 / 25	29 / 33	31 / 35

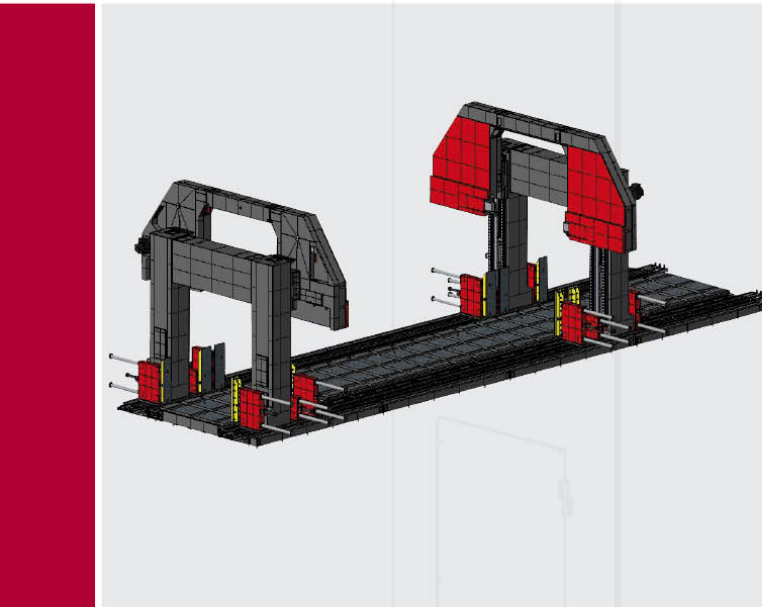
Option

- Blade speed up to 200 m/min
- Modular horizontal working length
- Special application cutting: 0° - 90°
- Multiple portal version



SHG-H

Horizontal sawing machines
Horizontal sawing machines - Gantry | **Heavy Line**



Revas SHG-H

Model		SHG-H 2500	SHG-H 3000	SHG-H 3500	SHG-H 4000
Cutting Capacity	mm x mm	2500 x 2500	3000 x 3000	3500 x 3500	4000 x 4000
Blade Speed	m/min	10-120	10-120	10-120	10-120
Main Motor Power	kW	21,5	29,6	29,6	29,6
Blade Type	mm x mm	80/100 x 1,6	80/100 x 1,6	100 x 1,6	100 x 1,6
Horizontal Working Length	mm	5000 x 8000	5000 x 8000	5000 x 8000	5000 x 8000
Weight	ton	60 / 67	67 / 75	75 / 82	82 / 89

Option

- Blade speed up to 200 m/min
- Modular horizontal working length
- Special application cutting: 0° - 90°
- Multiple portal version



Exclusively Our Technology

Modular basement

Precision Rack - Central Basement - Lateral Basement - Linear Guides

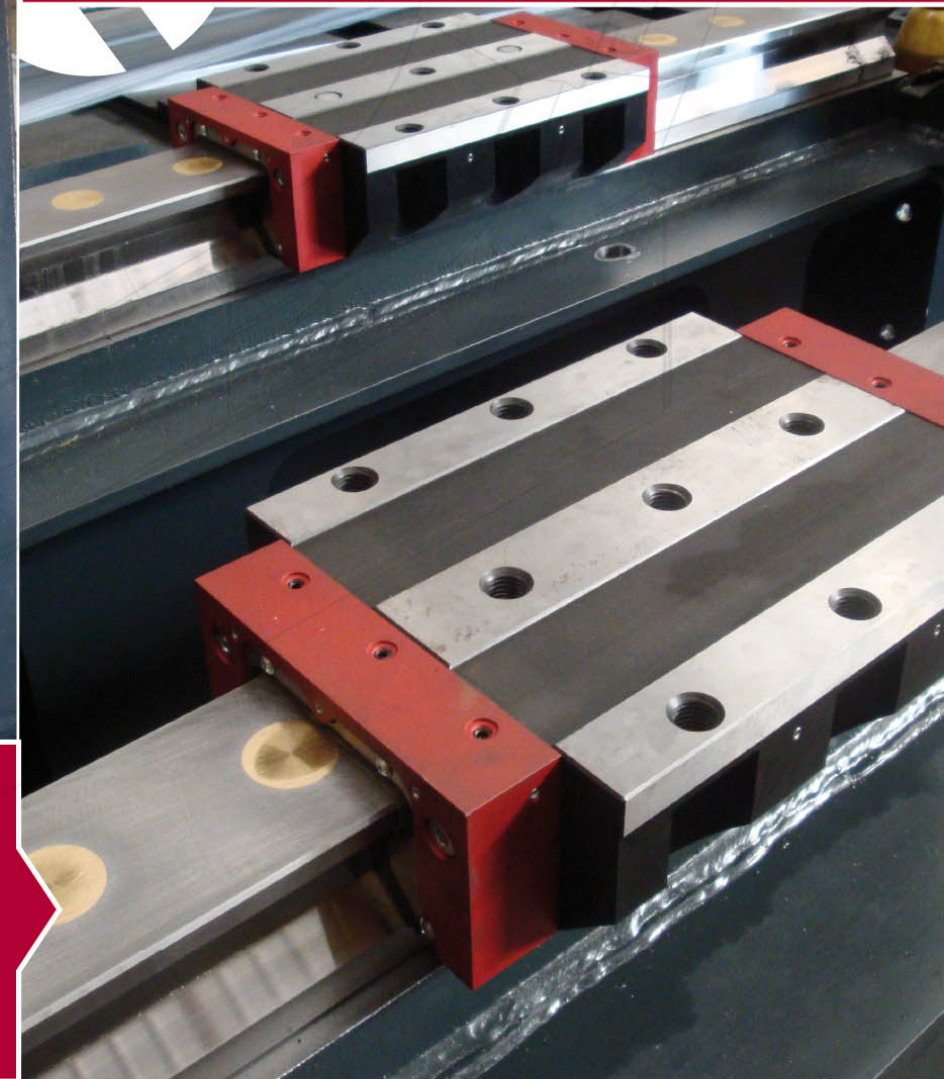
Modular basement in order to foresee future extension divided in 3 separated sectors in order to avoid interference between the central basement and the lateral basements.



Gantry vertical bridge

Motorization

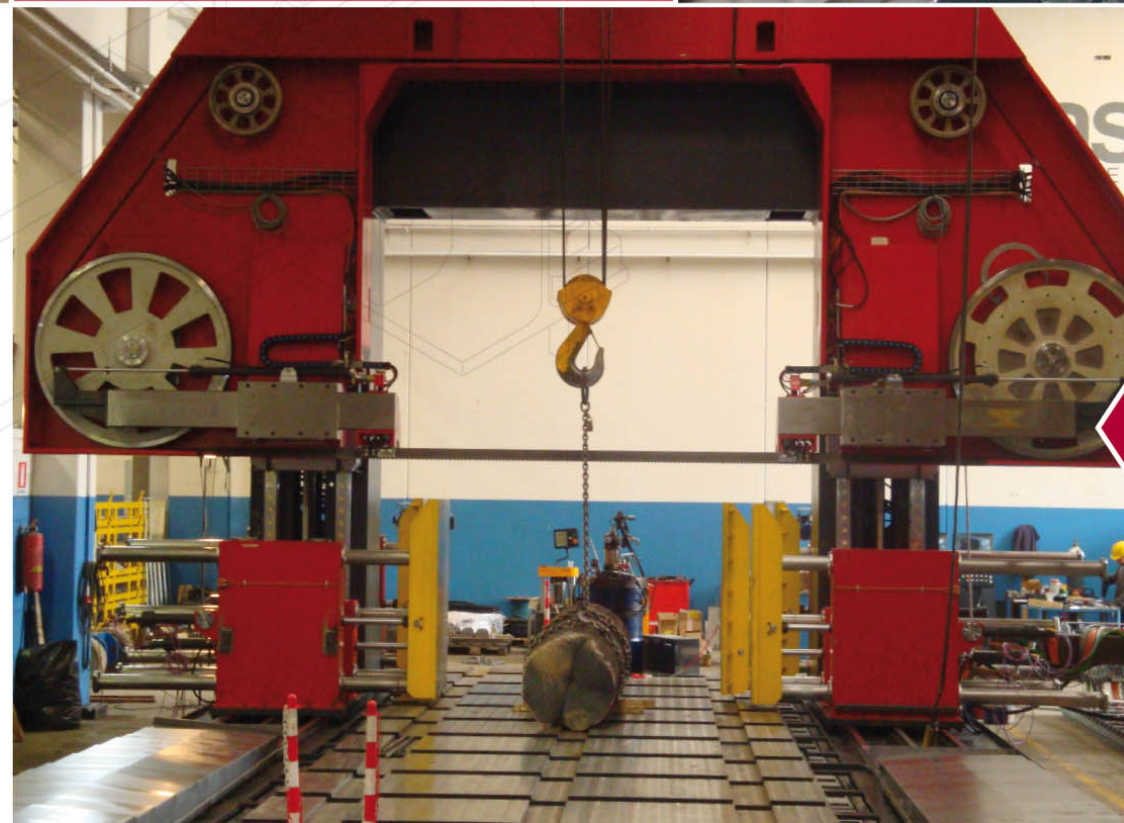
Gantry movement by n° 2 independent motors (electronic axially linked) and related n° 2 reduction gears in order to guarantee:
high movement precision
no backlashes due to gear coupling transmission



Gantry vertical bridge

Guides System

Bridge shifting by means of linear guides in order to guarantee:
gantry movement precision
stability
higher load capacity
higher life time



Gantry horizontal portal

Guides System

Portal shifting through the basement by means of linear guides in order to guarantee:
gantry movement precision
stability
higher load capacity
higher life time

Exclusively Our Technology

Wheel



Rotating Blade Guide System
0°+90°

Horizontal blade reaction:
roll bearing system
integrated with hard metal
hydraulic preloaded block

Vertical blade reaction:
adjustable hard metal block



Bearing system directly
at the wheel in order to
guarantee:
higher load capacity
higher capacity against
axial loads

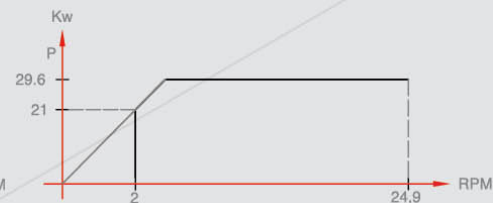
Wheel
surface

Medium/high steel carbon
induction hardened
high wear proof

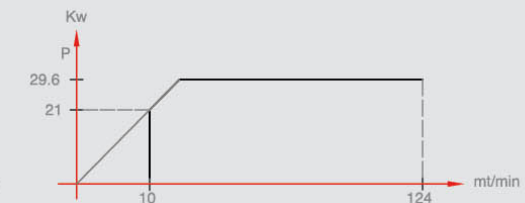
Wheel surface profile
in order to guarantee:
blade self centering
no vibrations
high stability



Motor



Wheel Axis



Blade Speed

