

## SIMAX 100

Entirely automatic sawing machine with high-efficiency carbide blade.  
This sawing machine is used in the high cutting production of bars of round section, and squares and is equipped of an automatic loader to feed the unit of cut in continuous cycle.

Round bar: from  $\varnothing$  20mm, to  $\varnothing$  100mm;  
Square bar: from 20x20mm, to 75x75mm;  
Rectangular bar: from 20x20mm, to 80x70mm;

### CUTTING HEAD



- ▶ Movement of the cutting head inclined 45° on six linear roller bearings.
- ▶ The cutting head feeding is controlled by servo motor.
- ▶ Ceramic blade guide.
- ▶ No backlash for the power brake.
- ▶ Automatic lubrication of the slides.
- ▶ Oil cooler to guarantee a long life of the gear box and minimum cutting tolerance.
- ▶ Blade brush chips removal.

### INFEEING DEVICE



- ▶ CN in-feeding gripper by Servo motor with a stroke of 1.000 mm, possibility of duplications for longer pieces.
- ▶ Automatic positioning of the in-feeding length.
- ▶ No manual adjustment of the clamps.
- ▶ Double clamping vices, on both sides of the saw blade.
- ▶ Hydraulic clamping both horizontal and vertical.
- ▶ Lifting infeeding unit to prevent material scratches.
- ▶ Feeding speed: 24m/min.
- ▶ Automatic lubrication of the different movements.



### OTHERS OPTIONS

- ▶ Unloader deflector.
- ▶ Chips conveyor.
- ▶ Smoke extractor.

## UNLOADING AXIS

Third Discharge Axis is an auto-centering device with ball-screw drive by Servo and hydraulic gripper with variable pressure. This allows 2 functions:

- ▶ In case of long pieces the third axis move the piece away from the blade to avoid contact.
- ▶ Control console: allows to reduce scraps by optimization of the rest length.
- ▶ Minimum gripper taking is programmable.

## LOADER

### SLOPE LOADER

This loader is suitable for the following material dimension:

- ▶ Round bar from  $\varnothing$  20mm to  $\varnothing$  100mm.
- ▶ Square bar from 20x20mm to 75X75mm.
  
- ▶ Length of the bars from 2000mm up to 6000 mm loader (optional up to 9m).
- ▶ Load capacity limited to the inclined chute.

Others options will be indicated in an official quote.



### BUNDLE LOADER

This loader is suitable for the following material dimension:

- ▶ Round bar from  $\varnothing$  30mm to  $\varnothing$  100mm.
- ▶ Square bar from 20x20 to 75X75.
  
- ▶ Length of the bars from 2000mm up to 6000 mm loader (optional up to 9000mm).
- ▶ Load capacity of the bundle 6000kg.

Others options will be indicated in an official quote.

**There is also another customized loader available for cutting SQUARE and RECTANGULAR bars. For more information, please enter your data in the RESERVED AREA and send a request to the company.**

## UNLOADER BELT

The unloader, can be built to discharge pieces up to 2000mm long.

- ▶ Motorized belt with 2 positions control by an Inverter.
- ▶ Hardened steel belt to move the pieces.
- ▶ Trim-cut and the scrap go to the end of the belt.