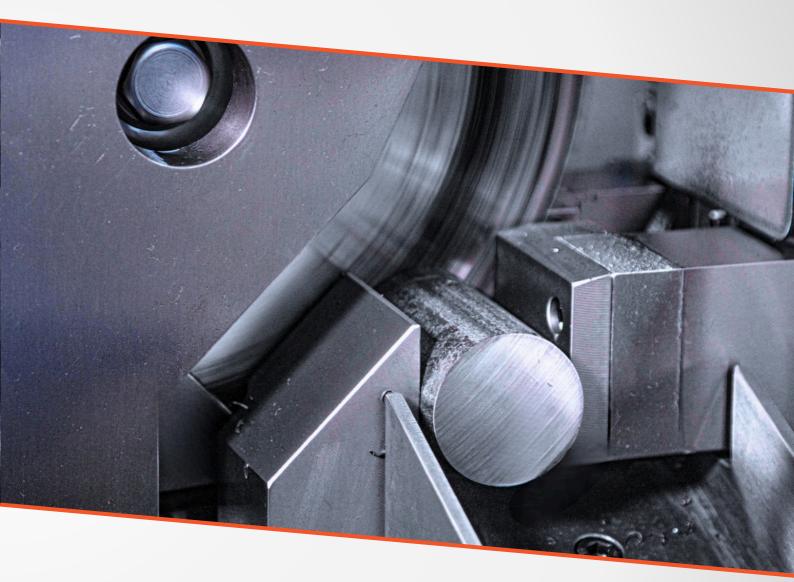


### **SIMAX CUTTING LINE**









# INDEX

**01. CUTTING UNITS** 

**02. MACHINE COMPONENTS** 





### 01. CUTTING UNITS

### **Technical Information**

SIMAX	SIMAX80	SIMAX100	SIMAX150
Round Bar	min.Ø10 - max Ø80 [mm]	min.Ø20 - max Ø110 [mm]	min.Ø50 - max Ø160 [mm]
Square Bar	min. 10x10 - max 60x60 [mm]	min. 20x20 - max 75x75 [mm]	min. 40x40 - max 120x120 [mm]
Min. Cutting Length	10 [mm]	10 [mm]	10 [mm]
Max. Cutting Length	3000 [mm]	3000 [mm]	3000 [mm]
Minimum Scrap	20 [mm] con 3° Asse	20 [mm] with 3° Axis	20 [mm] with 3° Axis
Cutting Tolelrance	± 0.1 [mm]	± 0.1 [mm]	± 0.1 [mm]
Blade Diameter	Ø285 - Ø300 [mm]	Ø360/Ø380 [mm]	Ø460/Ø480 [mm]
Number of Teeth	80 / 100	60 / 80 / 100	60 / 80
Blade Speed	70 ÷ 200	40 ÷ 150 m/min (with inverter)	40 ÷ 130 m/min (with inverter)
Clamp Feed Speed	30 m/min approx.	30 m/min approx.	30 m/min approx.
Advance Caliper Stroke	0 ÷ 650 [mm]	0 ÷ 800 [mm]	0 ÷ 530 [mm]
Motor Blade	11 [Kw]	15 [Kw]	15 [Kw]
Standard Cutting Plane Height	1000 [mm] approx.	1000 [mm] approx.	1000 [mm] approx.
Approximate Weight	3500 [Kg]	5000 [Kg]	6000 [Kg]
Electical Power	32 [Kw]	35 [Kw]	35 [Kw]

<sup>\*</sup>Simec srl reserves the right to make technical or construction changes at any time.

### **Cutting Units Description:**

The machine cutting unit is built **over a heavy and stable basement**. The cutting head movement is at **45° on 6 roller pads**. The head feed with **brushless motor** and ball screw to ensure constant removal of each saw tooth. The **clutch brake** mount on the gearbox, **reduce the blade vibration** and the blade guide allow a precise cut with narrow tolerance and a longer life of the tool.

The **lubrication** of the movable parts of the head and clamping devices **are centralized and automatic**.

The feeding gripper, which move on a ball screw, is also controlled by brushless motor. To avoid scratching on the material during the movements, the plane of the gripper, move up and down.

All the **material clamping** are **hydraulic** with the possibility to **set the pressure**. **Low machine noise** during operation.

#### **MECHANICALLY PERFECT**

The Cutting Unit is a machine tool and has impeccable precision mechanics.

#### **HIGH PERFORMANCE**

Cutting performance are stable even after years of use, both in terms of cutting tolerance and productivity

### 24 h NO STOP

24-hour non-stop work, 7 days a week

#### **LONG BLADE LIFE**

The life of the cutting blades is longer compare to the other machines on the market.



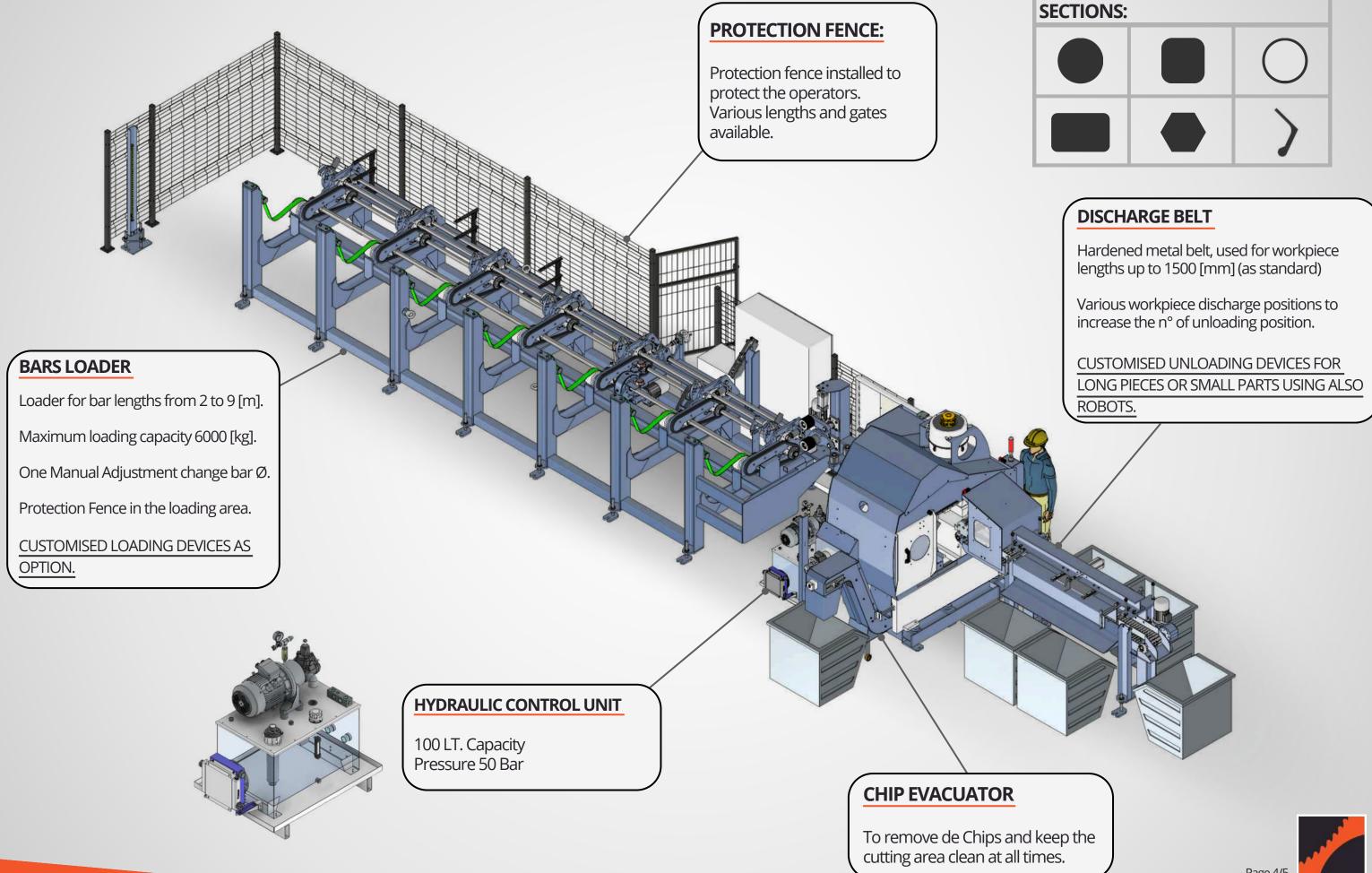




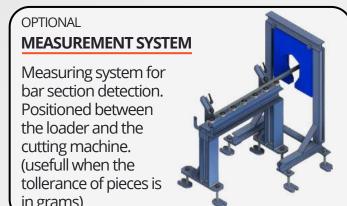


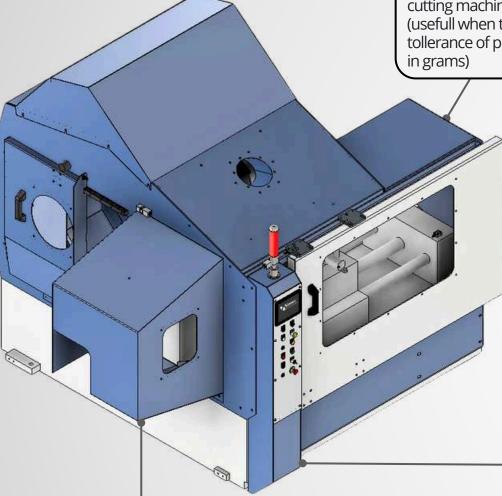


### 02. MACHINE COMPONENTS



## 03. DEVICES AND ACCESSORIES





### **CONTROL PANNEL**

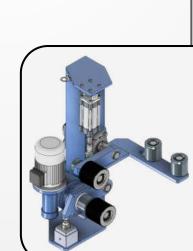
Siemens electronics.
Available different operator panels depending on the machine chosen.
Simple operator-machine interface with intuitive menu programming.

### THIRD AXIS

It is inserted between the cut and the belt to allow the unloading of workpieces with short lengths and reduce the length of the scrap. OPTIONAL

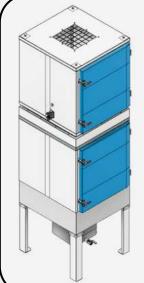
#### **WEIGHT SCALE**

During the unloading phase, a scale can be installed to weigh the cut pieces and decide accordingly in which position to unload them.



### **ROLLER PRESSURE**

Optional Device used for bar advancement from the loader to the machine



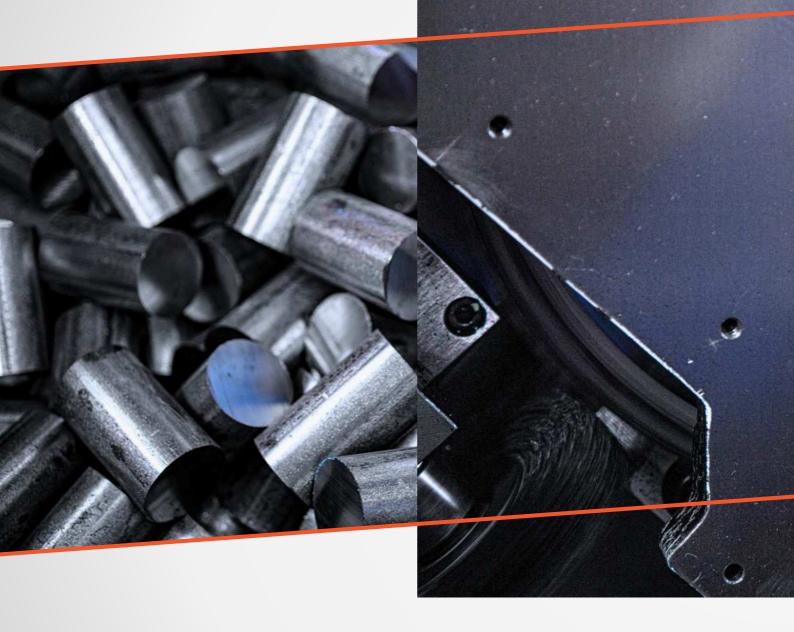
### **SMOKE EXTRACTOR**

The purifer is designed for the extraction and filtration of fumes and oily mist.

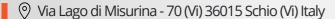


# Simec< ⇒

Simax cutting machines are a collaborative product between Simec srl (Italy) and Nishijima (Japan).







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