



# **FORZA**

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**Scanor**

*Technical data sheet*

*S1530P120*



# FORZA

## Scanor

Industrial CNC Fiber Laser Cutting Machine with Interchangeable Bed

**ENGRAVING / MARKING / PERFORATING**

For those industries looking for a reliable and complete solution, the SCANOR laser cutter is designed for continuous production, cutting sheets up to 50mm thick without burrs.

It includes a covered protection system and an interchangeable bed to continue working during loading and unloading time.

Components



# FORZA<sup>®</sup> *ES* FORZA<sup>®</sup>

## SERVOMOTORS

French Schneider Electric ServoMotors 57.29 Nm BCH2 Series |

Scheider LXM26 Series Controller

## RESONATOR

Maxphotonics 12000W Power Supply

## HEAD

Raytools BS12K

## ELECTRONIC SYSTEM

Siemens

Schneider  
Electric

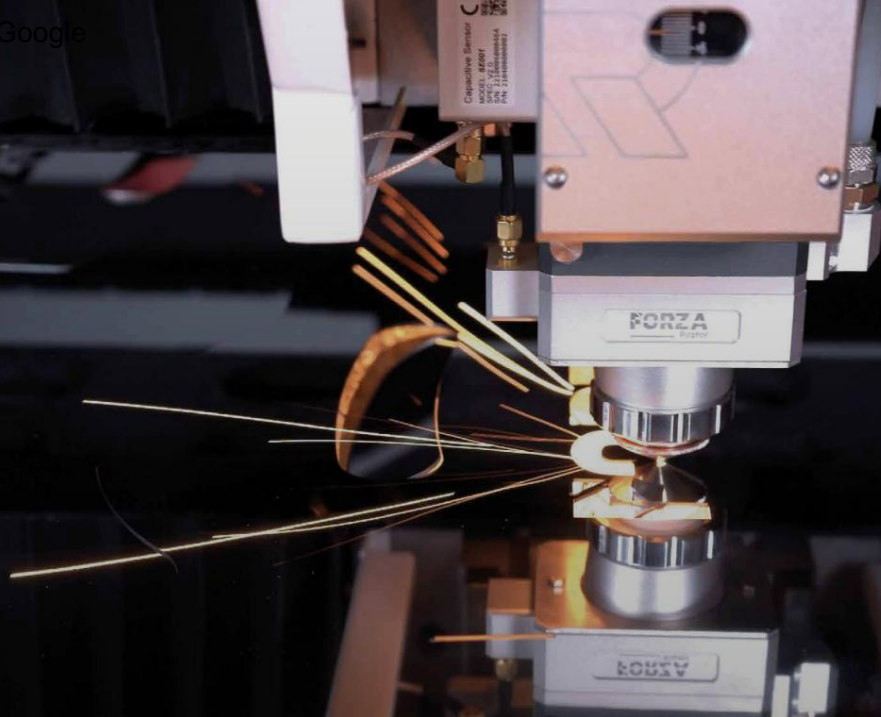
SIEMENS



**FORZA SCANOR S1530P120****Specific features**

Characteristics	Detail
Model	FORZA SCANOR 120
Standard work area	3005mm x 1500mm
Nominal laser power	12000W
Ideal cutting thickness in ASTM A36	40mm
ASTM A36* Maximum Cutting Thickness Limit	50mm
Maximum acceleration	1.2 G
Maximum cutting speed	120 m/min
Cutting precision	± 0.05 mm

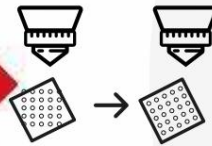




# CHARACTERISTICS SPECIALS



**Smart Focus  
Technology**



**Automatic  
Find Edge**



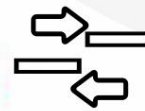
**Software  
FORZA PLAY**



**Gravity  
Cut**



**Fully  
Enclosed**



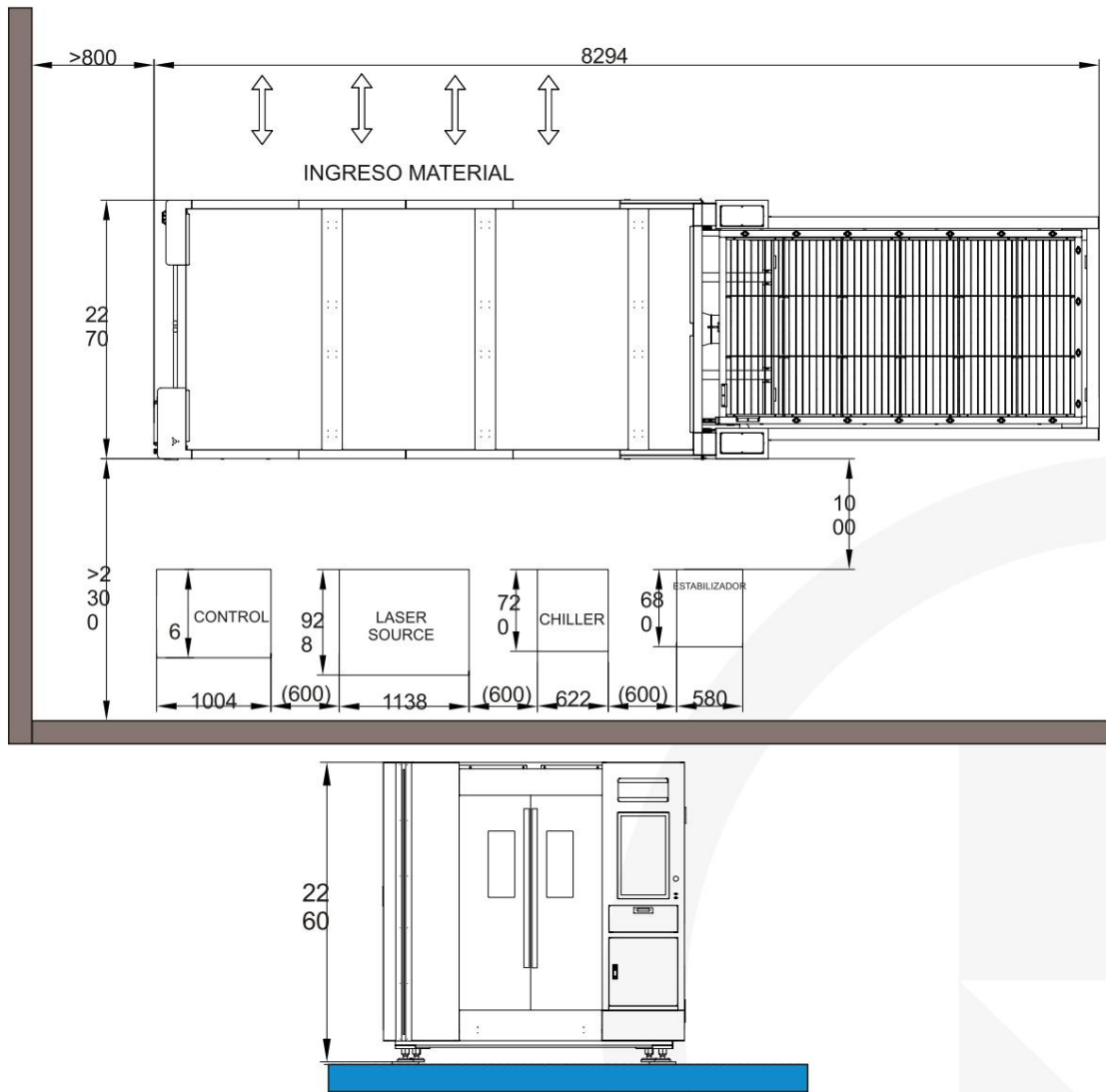
**Dual  
interchangeable**

## General characteristics

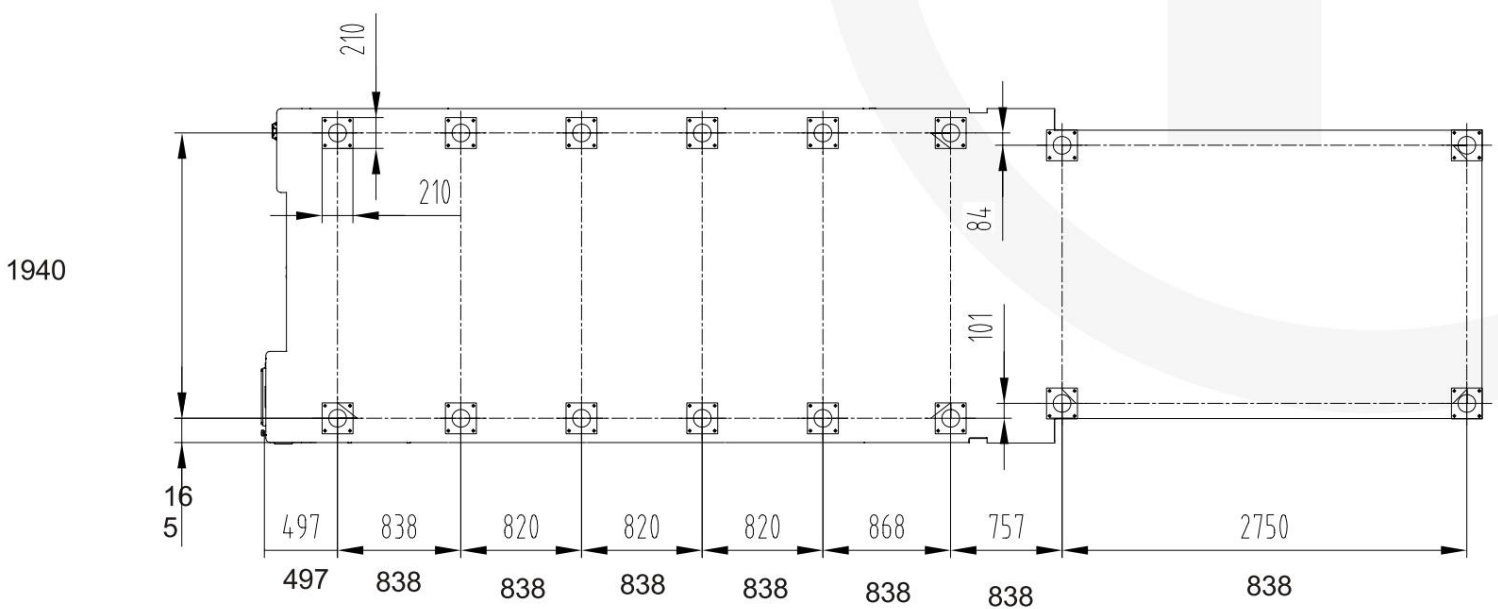
Characteristics	Detail
Model	FORZA SCANOR 12 000
Laser Type/Laser Technology	Fiber Laser 1064nm $\pm$ 30nm
Nominal power of Fiber laser	12000W
Fiber laser working power range	5%-100% ( $\pm$ 0.5%)
Stability at output power	$\pm$ 1.5W
Types of work	CUTTING / PUNCHING / MARKING
Focusing system	Automatic, SMART FOCUS TECHNOLOGY
Framing system	Automático, FAST EDGE SENSOR
Type of gas to use for cutting	O2, N2 or Air
Control head type	Gas - Temperature - Sensor - Online
Nominal working area	1500mm x 3005mm
Interchangeable bed	2 beds of 1500mmx-3005mm
Bed change speed	<30s
Bed changing system	Linear guide with chain
Maximum displacement in Z	200mm
Maximum travel speed	120 m/min
Process control	Integrated camera
Total worktop space per unit	1600mm x 3100mm
Type of bed	Anti-vibration round blade
Maximum XY acceleration	1.2 G
Laser protection	Metal cover and window with filter
Cutting precision	$\pm$ 0.05mm
Repeatability	$\pm$ 0.02mm

XY motion system	Rack and pinion
Z motion system	Screwball
Lubrication system	Automatic by working path
Source protection level	IP54
Command control	Vertical screen
Maximum load per bed	920 kg in full plank
Energy consumption	48.4 kW
Covered extraction system	Extraction by external motor
Working voltage	220V/380V/440V AC 3ph 50Hz-60Hz
Team measurements	2350mm x 8300mm x 2200mm
Type of communication	RJ45, WIFI, USB 3.0
Supported design format	AI, DXF, PLT, Gerber, LXD, G
Software for use	FORZA PLAY
PC control interface	By screen and by manual control
Cooling method	Dissipated by water
Equipment weight	6750kg
Resistance on the work floor	6.5 Kgf/cm2
Relative humidity	< 85%
Working temperature	10 – 35o C
Storage temperature	8 – 30o C
Certifications	CE, RoHvS

### Space required

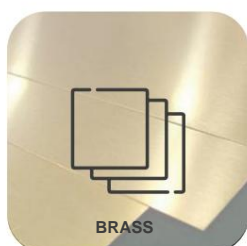


### Support points





## Applicable materials



## Cutting thicknesses by material

Material	IDEAL THICKNESS*	MAXIMUM THICKNESS**
ASTM A36 STEEL ("Black or Mild")	40mm	50mm
ASTM 304 STAINLESS STEEL	34mm	44mm
ASTM 6061 STRUCTURAL ALUMINUM	32mm	40mm
BRASS C27200	16mm	20mm
ASTM A653 GALVANIZED STEEL	10mm	14mm

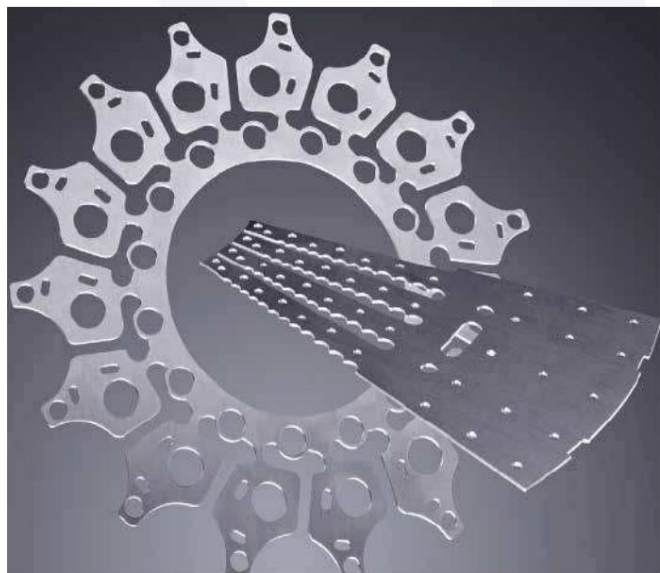
Grades:

\* The ideal thickness refers to the thickness that is cut with a completely clean edge, with a "mirror-like" finish.

\*\*The maximum thickness is the limit that can be cut, although the cut has no burrs, there is the appearance of cutting lines depending on the thickness, the thicker it is, the greater the appearance of lines, it is not recommended to size the machine with the maximum thickness.

## Manufactured parts

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We exceed your expectations



Contact us