

## Finecut Y130 HP

The Finecut HP (high precision) has been developed for manual and semi automatic handling of fine welding and cutting applications, requiring up to 4 NC-axis. The system offers high precision and flexibility performances, combined with a compact, ergonomical and state-of-the-art design.

The system can integrate all the lasers for cutting and welding processes.

Ideal for processing metals such as steel, aluminium, titanium, gold, with the reachable finest quality

[www.osai-as.it](http://www.osai-as.it)



The solid granite frame is the structure itself of the machine, supporting an XY table for moving the parts. The Z axis is fixed to the structure. Linear motors are used for all the axis, in order to guarantee the best precision and performances in all situations. Optionally it is possible to use a fourth CNC controlled rotary axis, in order to work on round or elliptical parts

### Axis details:

#### X-Axis

Motor:	Linear full digital
Axis stroke:	800mm
Positioning accuracy:	$\pm 5\mu\text{m}$ @20°C
Repeatability:	$\pm 2,5\mu\text{m}$
Working speed:	up to 2000mm/sec
Acceleration	20m sec <sup>2</sup>

#### Y-Axis

Motor:	Linear full digital
Axis stroke:	600mm
Positioning accuracy:	$\pm 5\mu\text{m}$ @20°C
Repeatability:	$\pm 2,5\mu\text{m}$
Working speed:	up to 2000mm/sec
Acceleration	20m sec <sup>2</sup>
Max load	50 kg

#### Z-Axis

Motor:	Servo-Brushless full digital with safety brake
Axis stroke:	200mm
Positioning accuracy:	$\pm 20\mu\text{m}$ @20°C
Repeatability:	$\pm 10\mu\text{m}$
Working speed:	up to 150mm/sec (250mm/sec rapid movement G0)

The machine is completely open (class 4) in order to have the maximum flexibility for loading/unloading the parts

The cutting version is equipped with a plug and play cutting box for holding the part to cut

The flexibility of the system allows to manage three different kinds of gas

(typically compressed air, Ar/N<sub>2</sub>, O<sub>2</sub>) with pressures up to 20 bars

By means of a friendly software it is possible to manage the machine in automatic, manual (step by step) and MDI mode in an easy way.

Automatic autofocus, included in the basic machine

Don't hesitate to contact us for detailed information