

Motorized vices 01



Cabin 02

Satellite XLE

5-axis machining centre



CNC 5-axis machining centre with mobile gantry, built for milling, drilling, threading and cutting large bars in aluminium, PVC, light alloys and steel. The mobile part of the machine is composed of a drive gantry on a high precision rack. The (11 kW in S1) electrospindle with HSK-63F toolholder allows performing machining operations, even heavy-duty ones, with optimal results in terms of speed and accuracy.

The new local guarding cabin has been designed to offer optimal functionality, accessibility and lighting while fulfilling safety and ergonomics requirements. Large glass windows allow the operator to monitor the machining operations being executed and, thanks to the cabin complete opening system in two separate sections, also an easy access during cleaning and maintenance phases. An 18-place tool magazine is housed inside. The 450 mm blade tool is housed separately inside a dedicated magazine.

SATELLITE XLE features new motorised vices that, in double machining mode, position themselves independently and in concurrent operation time to the machining processes of the spindle in the opposite work area. The compact and strong vices can be easily configured without the use of tools for geometric adjustments.

The new stops allow full coverage of the work area and disengage the area in case of machining on the profile heads.

All CNC axes are absolute and do not require resetting upon machine restart.

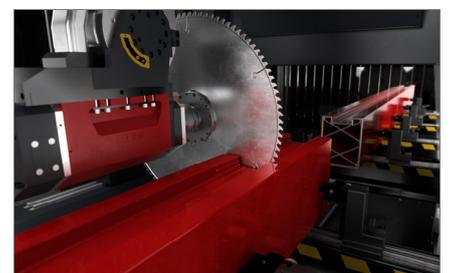
Tool magazine 03



Blade magazine 04



Taglio e separazione (opzionale) 05



The images are only given for illustrative purposes

Satellite XLE

5-axis machining centre

01

Motorized vices (optional)

The vice unit can ensure the correct, safe and fast clamping of large profiles and does not require tools for its geometric adjustments.

Each unit slides on linear guides on machine surface.

The motorized vices, each equipped with its own motor, can be positioned independently in the work area. In dynamic double machining mode, the CNC simultaneously manages the movement of the vices and of the mobile gantry in the two separate work areas, thus allows significant increases in productivity.

Using absolute reference axes allows reducing the initialisation time required every time the machine is restarted.

02

Cabin

The local guarding cabin has been designed to offer optimal functionality, accessibility, soundproofing and lighting while fulfilling safety and ergonomics requirements. The innovative and refined design makes the machine unique and unmistakable. The large glass windows allow the operator to easily and safely control the execution of the machining operations. Cabin internal structure optimises the conveying of swarf and scraps to the base, housing the conveyor belt, thus simplifying the maintenance and cleaning phases on all delicate parts.

The exhauster, optionally integrated in the cabin, allows dedicated extraction of machining fumes.

03

Tool magazine

The 18-place toolholder magazine is installed directly on machine gantry; its rear position, in a dedicated area, ensures maximum protection from machining swarf.

The rotary base magazine provides maximum reliability, quiet operation and cycle optimisation. A milling disc with a diameter of 250 mm can be housed in the toolholder magazine. This tool allows, thanks to maximum speed, safety and accuracy, performing compound cuts, straight cuts, end milling and trimming operations.

04

Blade magazine

The blade tool, with a maximum diameter of 450 mm, is housed in a dedicated magazine separate from the other tools. It is equipped with HSK-63F toolholder and can work by exploiting the 5 interpolated axes of the electric head to section the workpiece. By means of a suitable optional software, it allows cutting and separation directly from the unmachined bar.

05

Cut and separation (optional)

The optional cut-and-separate feature allows obtaining several machined and separated profiles from a single bar, avoiding the need to cut the different pieces in advance.

The large cutting capacity of the blade unit allows separation cuts on large profiles.

The machine can be equipped with a label printer to optimise profile management in the following phases.

AXES TRAVELS

X AXIS (longitudinal) (mm)	7,800 10,500
Y AXIS (transversal) (mm)	1,090
Z AXIS (vertical) (mm)	640
B AXIS (vertical - horizontal rotation)	-15° + +90°
C AXIS (vertical axis rotation)	-360° + +360°

POSITIONING SPEED

X AXIS (m/mm)	75
Y AXIS (m/mm)	54
Z AXIS (m/mm)	60
B AXIS (°/min)	8,800
C AXIS (°/min)	8,100

ELECTROSPINDLE

Maximum power in S1 (kW)	11
Maximum speed (rpm)	24,000
Maximum torque (Nm)	8.8
Toolholder cone	HSK-63F

AUTOMATIC TOOL MAGAZINE ON BOARD THE GANTRY

Maximum number of standard magazine tools	18
Maximum size of tools that can be loaded onto the standard magazine (mm)	Ø=80 L=190
Maximum size of blade that can be loaded onto the standard magazine (mm)	Ø=250 L=95
Maximum size of blade that can be loaded onto the blade magazine (mm)	Ø=450 L=73

WORKABLE SIDES

With direct tool (upper face, side faces, heads)	5
With blade tool (upper face, side faces, heads)	1 + 2 + 2

WORK AREA (Base x Height x Length)

Maximum size of workpiece that can be machined on 1 face (clamped with special tool)	600 x 350 x 7,800 600 x 350 x 10,500
Maximum size of workpiece that can be machined on 5 faces in double machining mode	600 x 350 x 2,930 600 x 350 x 4,080
Section that can be machined with Ø 450 mm blade (cut and separation included) (base x height)	290 x 250

TAPPING CAPACITY (with tap on aluminium and through hole)

Rigid	M10
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WORKPIECE LOCKING

Standard number of pneumatic vices	8 10
Maximum number of pneumatic vices	12 14
Maximum number of vices per area	6 7