

Satellite XTE

5-axis machining centre

Servocontrolled clamps 01

Cab 02



5-axis CNC mobile gantry machining centre, designed to run milling, drilling, threading and cutting processes on large bars in aluminium, PVC, light alloys and steel. The mobile part of the machine mainly consists of a gantry equipped with precision motorisation rack. The high-power electrospindle (15 kW in S1) with HSK-63F tool connection allows even heavy-duty machining to be run with excellent speed and accurate results.

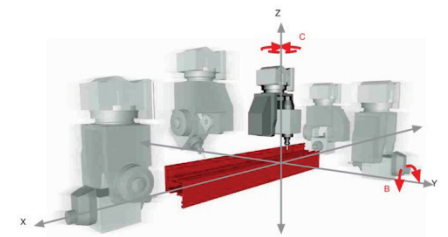
The new local safety cab was designed to combine top functionality, accessibility, soundproofing and light with safety and ergonomic requirements. The operator has broad glazed surfaces to check machining execution and, thanks to the total opening system of the cab in two separate parts, easy access during cleaning and maintenance. The cab interior includes the complete segregation of the work area from the remaining sections of the tool magazine and other accessories supplied on the trolley, ensuring maximum chip collection towards the conveyor belt and, as optional, dedicated extraction of machining fumes.

The 24-place tool magazine is housed in the mobile gantry; it is equipped with an exchanger arm system that considerably reduces tool change times. A 500 mm blade tool is housed separately in a dedicated magazine system.

SATELLITE XTE features new servocontrolled clamps that, in double operation, independently position themselves in concurrent time with respect to the spindle machining processes in the opposite working field. The clamps, which are compact and sturdy, are easy to configure without the use of tools for geometric adjustments.

The new stops enable complete coverage of the working field and disengage the area when machining profile heads.

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



Tool magazine 03

Blade magazine 04

Cut and separation (optional) 05



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01 Servocontrolled clamps

The clamp unit is able to ensure correct, safe and quick locking of profiles in large dimensions, and does not require tools for its geometric adjustments. Each unit slides via linear guides on the machine table. The servocontrolled clamps, each with their own motor, can independently position themselves on the working field. In dynamic double operation, the CNC manages the handling of the clamps and mobile gantry in the two distinct working fields at the same time; this allows significant increases in productivity. The use of absolute reference axes enables reducing the time for machine initialisation at each restart.

02 Cab

The local safety cab was designed to combine top functionality, accessibility, soundproofing and light with safety and ergonomic requirements. The polished and innovative design makes the machine unique and inimitable. Large glazing enables the operator to check machining execution simply and safely. The internal structure of the cab optimises chip and swarf conveying to the base, where the conveyor belt is housed, thus simplifying maintenance and cleaning of all sensitive parts. The exhauster, integrated into the cab as optional, enables dedicated extraction of machining fumes.

03 Tool magazine

The 24-place tool holder magazine is installed directly on the machine's trolley; its rear position, in a dedicated area, guarantees maximum protection from machining chips. The turntable magazine enables top reliability, low noise levels and optimised tool change cycles, also thanks to an exchanger arm system.

04 Blade magazine

The blade tool, with a maximum 500 mm diameter, is housed in a dedicated magazine, separate from the other tools. It is equipped with a HSK-63F connector tool and it can work using the 5 interpolated axes of the electric head to isolate the workpiece. The use of relevant optional software allows cut and separation to be run directly from the rough bar. An end mill disc with a diameter of 180 mm can be housed in the tool magazine. This tool allows compounds cuts, straight cuts, splicing and trimming to be run with maximum speed, safety and accuracy.

05 Cut and separation (optional)

The optional cutting and separation function allows a series of machined profiles to be obtained from one bar and then separated, avoiding the preventive cutting operations of the various short cuts. The wide cut capacity of the blade unit allows separation cuts to be run on large dimensioned profiles. The machine can be equipped with a label printer, to optimise the management of profiles in subsequent phases.

AXIS TRAVEL

| | |
|--|---------------------------|
| X AXIS (longitudinal) (mm) | 7,800 10,500 15,500 |
| Y AXIS (transversal) (mm) | 1,100 |
| Z AXIS (vertical) (mm) | 655 |
| B AXIS (vertical - horizontal slewing) | 0° + 90° |
| C AXIS (vertical axis slewing) | 0° + 360° |

POSITIONING SPEED

| | |
|----------------|-------|
| X AXIS (m/min) | 75 |
| Y AXIS (m/min) | 60 |
| Z AXIS (m/min) | 40 |
| B AXIS (°/min) | 3,240 |
| C AXIS (°/min) | 3,600 |

ELECTROSPINDLE

| | |
|--------------------------|---------|
| Maximum power in S1 (kW) | 15 |
| Maximum speed (rpm) | 24,000 |
| Maximum torque (Nm) | 12 |
| Tool connector cone | HSK-63F |

AUTOMATIC TOOL MAGAZINE ON TROLLEY

| | |
|---|-------------|
| Number of tools standard storage system | 24 |
| Maximum dimension of tools that can be loaded into the standard magazine (mm) | Ø=80 L=300 |
| Maximum dimension of the blade that can be loaded into the standard magazine (mm) | Ø=180 L=150 |
| Maximum dimension of the blade that can be loaded into the blade magazine (mm) | Ø=500 L=73 |

MACHINABLE FACES

| | |
|---|-----------|
| With direct tool (top face, lateral faces, heads) | 5 |
| With blade tool (top face, lateral faces, heads) | 1 + 2 + 2 |

FIELD OF WORK (Base x Height x Length)

| | |
|---|----------------------|
| Maximum machinable workpiece dimension on 1 face (clamped with special equipment) | 1,000 x 400 x 7,800 |
| | 1,000 x 400 x 10,000 |
| | 1,000 x 400 x 15,500 |
| Maximum machinable workpiece dimension on 5 faces in double operation | 450 x 400 x 3,215 |
| | 450 x 400 x 4,565 |
| | 450 x 400 x 7,065 |
| Workable section with Ø 500 mm blade (including cut and separation) (base x height) | 292 x 360 |

TAPPING CAPACITY (with tap on aluminium and through hole)

| | |
|-------|-----|
| Rigid | M12 |
|-------|-----|

WORKPIECE CLAMPING

| | |
|-------------------------------------|----|
| Standard number of pneumatic clamps | 8 |
| | 10 |
| | 12 |
| Maximum number of pneumatic clamps | 12 |
| | 14 |
| | 16 |
| Maximum number of clamps per area | 6 |
| | 7 |
| | 8 |

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The pictures are provided by way of illustration only

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