



Satellite XTE

CNC machining centres

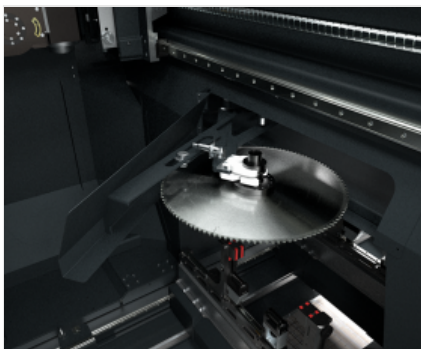


5-axis CNC mobile gantry machining centre, designed to run milling, drilling, threading and cutting processes on large bars in aluminium, PVC, light alloys and steel. The mobile part of the machine mainly consists of a gantry equipped with precision motorisation rack. The high-power electrospindle (15 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 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.



Cabin

The local guarding cabin has been designed to offer optimal functionality, accessibility 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.



Blade magazine

The blade tool, with a maximum diameter of 500 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. A milling disc with a diameter of 180 mm can be housed in the toolholder magazine.



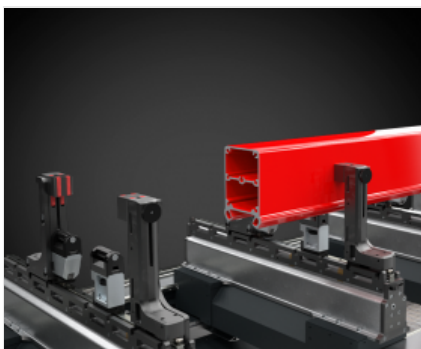
Cut and separation (Optional)

The optional cutting and separation function directly from the bar, allows a series of machined profiles to be obtained from one bar and then finally separated into individual elements, avoiding the need to put short cuts that have been previously cut into machining.



Tool magazine

The 24-place toolholder magazine is installed directly on machine gantry; its rear position, in a dedicated area, ensures maximum protection from machining swarf. The turntable magazine enables top reliability, low noise levels and optimised tool change cycles, also thanks to an exchanger arm system.



Vices

The vice unit is able to ensure correct and safe blocking of aluminium, PVC, steel and light alloy profiles in large dimensions. Each unit slides on linear guides on machine surface. The positioning in static double operation mode models is managed via X axis.



Label printer (Optional)

The industrial label printer allows each cut profile to be identified with identifying features from the cutting list. In addition, barcode printing enables easy identification of the profile itself, which is particularly useful for subsequent machining steps on Machining Centres or assisted assembly lines.





SATELLITE XTE / CNC MACHINING CENTRES

LAYOUT



| | A | B | C |
|----------------------------|--------|--------|--------|
| Satellite XTE - 7,8m (mm) | 12.900 | 14.100 | 13.000 |
| Satellite XTE - 10,5m (mm) | 15.300 | 16.600 | 15.400 |
| Satellite XTE - 15,5m (mm) | 21.300 | 22.600 | 21.400 |

- 1. Metal mesh swarf evacuation belt with outlet to the right (optional)
- 2. Belt for conveying swarf and short cuts to collector bag(optional)

The overall dimensions may vary depending on the product configuration.



AXIS STROKES

| | |
|---|-------------------------|
| X AXIS (longitudinal) (mm) | 7.800 ; 10.500 ; 15.500 |
| Y AXIS (transversal) (mm) | 1.100 |
| Z AXIS (vertical) (mm) | 655 |
| B AXIS (head vertical-horizontal rotation) | 0° ÷ 90° |
| C AXIS (vertical axis rotation of the head) | 0° ÷ 360° |

POSITIONING SPEED

| | |
|-------------------------------|----|
| X AXIS (longitudinal) (m/min) | 75 |
| Y AXIS (transversal) (m/min) | 60 |
| Z AXIS (vertical) (m/min) | 40 |

ELECTROSPINDLE

| | |
|--------------------------|-----------|
| Toolholder cone | HSK - 63F |
| Maximum torque (Nm) | 12 |
| Maximum speed (rpm) | 24.000 |
| Maximum power in S1 (kW) | 15 |

AUTOMATIC TOOL MAGAZINE ON BOARD THE GANTRY

| | |
|--|-------------------|
| 24-place tool magazine with rapid tool change with tool changer arm | ● |
| Maximum dimension of the tools that can be loaded into the magazine (mm) | Ø = 80 - L = 300 |
| Maximum size of the blade that can be loaded into the magazine (mm) | Ø = 180 - L = 150 |

WORKABLE SIDES

| | |
|--|-----------|
| With direct tool (upper face, side faces, heads) | 5 |
| With blade tool Ø 500 mm (upper face, side faces, heads) | 1 + 2 + 2 |



WORK AREA

1F = 1 face machining

5F = 5 faces machining



| | | A | B | X1 | Y1(*) | Z1 | X2 | Y2 | Z2 |
|--|-------------|----|-----|--------|-------|-----|--------|-----|-----|
| SATELLITE XTE 7.800 | single mode | 73 | 145 | 7.800 | 1.000 | 400 | 7.300 | 450 | 400 |
| | double mode | 73 | 145 | 3.465 | 1.000 | 400 | 3.215 | 450 | 400 |
| SATELLITE XTE 10.500 | single mode | 73 | 145 | 10.500 | 1.000 | 400 | 10.000 | 450 | 400 |
| | double mode | 73 | 145 | 4.815 | 1.000 | 400 | 4.565 | 450 | 400 |
| SATELLITE XTE 15.500 | single mode | 73 | 145 | 15.500 | 1.000 | 400 | 15.000 | 450 | 400 |
| | double mode | 73 | 145 | 7.315 | 1.000 | 400 | 7.065 | 450 | 400 |
| Ø 500 mm blade machinable section (separation cuts from rough bar included) | | | | | 292 | 360 | | 292 | 360 |
| machinable section with angle head on the lower face | | | | | 350 | 330 | | 350 | 330 |

Dimensions in mm

(*) requires special holding fixture

TAPPING CAPACITY (with Tap On Aluminium And Through Hole)

Rigid

M12

WORKPIECE LOCKING

| | |
|--|----|
| 7,800 mm versions; standard number of pneumatic vices | 8 |
| 7,800 mm versions; maximum number of pneumatic vices | 12 |
| 7,800 mm versions; maximum number of vices per area | 6 |
| 10,500 mm versions; standard number of pneumatic vices | 10 |
| 10,500 mm versions; maximum number of pneumatic vices | 14 |
| 10,500 mm versions; maximum number of vices per area | 7 |
| 15,500 mm versions; standard number of pneumatic vices | 12 |
| 15,500 mm versions; maximum number of pneumatic vices | 16 |
| 15,500 mm versions; maximum number of vices per area | 8 |

Included ● Available ○

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