

Satellite XT

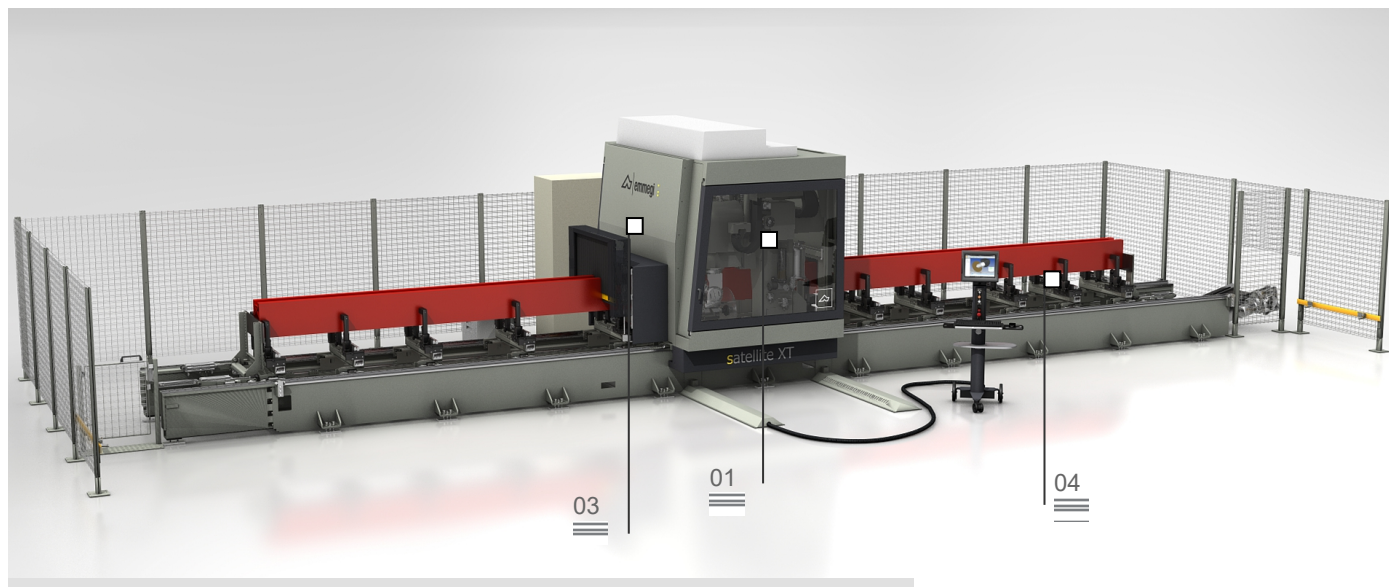
Machining centre

Blade

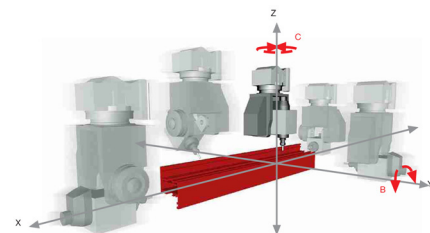
01

Cut and separation (optional)

02



5-axes CNC mobile gantry machining centre, built to run milling, drilling, threading and cutting processes on large bars or workpieces in aluminium, PVC, light alloys in general and steel. The mobile part of the machine consists of a gantry equipped with precision motorisation rack. The high-power electrospindle (15 kW in S1) with HSK-63F tool connector allows even heavy-duty machining to be run with excellent speed and accurate results. On the mobile gantry there is the tool magazine with 16 places. A 500 mm blade tool is housed separately in a dedicated magazine. The machine can be used in double operation, a work method that reduces machine stoppage times to a minimum as it allows part changeover (loading/unloading) to be run in "concurrent time". With the dynamic pendular version, it is possible to further improve this functionality, given that the positioning of the clamps can be done in completely stand-alone mode from the gantry. Furthermore, the machining of different workpieces and between the two work areas is possible. The gantry is equipped with a casing that not only protects the operator, but also reduces the environmental noise impact.



Tool magazine

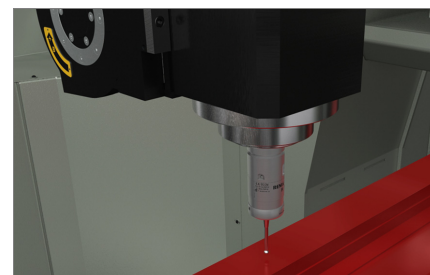
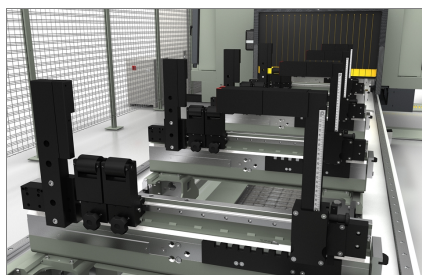
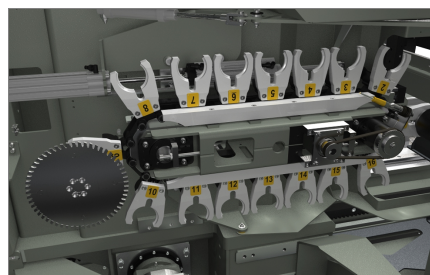
03

Clamps

04

Dimensional profile measurer (optional)

05



Satellite XT

Machining centre

01

Blade

The 500 mm blade equipment is housed in a dedicated storage system. 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 holder storage system. This tool allows compounds cuts, straight cuts, splicing and trimming to be run with maximum speed, safety and accuracy.

02

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. The wide capacity of the blade cutting unit allows separation cuts to be run on large dimensioned profiles, indeed in most cases eliminating the entire machining phase usually is carried out upstream from the cutting-off machine.

In this case, the machine can be equipped with a label printer, to manage the tracking of profiles in subsequent phases.

03

Tool magazine

The tool holder storage system is large and quick and is installed directly on the machine's trolley. Its lateral position, together with an exclusive housing, guarantees the maximum protection of the tool holder tapers from chips and accidental knocks.

The standard storage system is able to contain up to 16 tool holders, which can be configured at the operator's discretion.

04

Clamps

The clamp unit is able to ensure correct and safe blocking of aluminium, PVC, steel and light alloy profiles in large dimensions. Each unit slides via linear guides on the machine's surface. The positioning in static double mode models is managed via X axis. The dynamic double machining models are equipped with a positioning system with centralised motorisation, which allows the clamps to move independently from the trolley and allows positioning while the machine is working. Counterblocks can be mounted quickly and accurately making the machine extremely versatile. The clamp unit is available optionally in double presser version to machine two profiles in parallel.

05

Dimensional profile measurer (optional)

The machine can be optionally equipped with an electronic device that allows the automatic correction of dimensional errors in length and height of the workpiece. In this way, the accuracy characteristics of the machine are not influenced by the differences between theoretic and real workpiece dimensions in machining.

This device runs the splicing of the rough workpiece in several positions with accuracy, to allow the correction of machining along its length, even in the event of deformed or warped profiles.

AXES 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 (r/min)	24,000
Maximum torque (Nm)	12
Tool connector cone	HSK-63F
AUTOMATIC TOOLS STORAGE SYSTEM ON TROLLEY	
Number of tools standard storage system	16
Maximum dimension of tools that can be loaded into the standard storage system (mm)	Ø=80 L=300
Maximum dimension of the blade that can be loaded into the standard storage system (mm)	Ø=180 L=150
Maximum dimension of the blade that can be loaded into the blade storage system (mm)	Ø=500 L=73
WORKABLE SIDES	
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 workable workpiece dimension on 1 face, blocked with special equipment with tool length (A) L=73mm plus tool holder (B) L=145mm	1,000 x 400 x 7,800 1,000 x 400 x 10,000 1,000 x 400 x 15,500
Maximum workable workpiece dimension on 5 faces, with tool length (A) L=73mm plus tool holder (B) L=145mm in double machining mode	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 BLOCKING UNIT	
Standard number of pneumatic clamps	6 8 12
Maximum number of pneumatic clamps	12
Maximum number of clamps per area	6