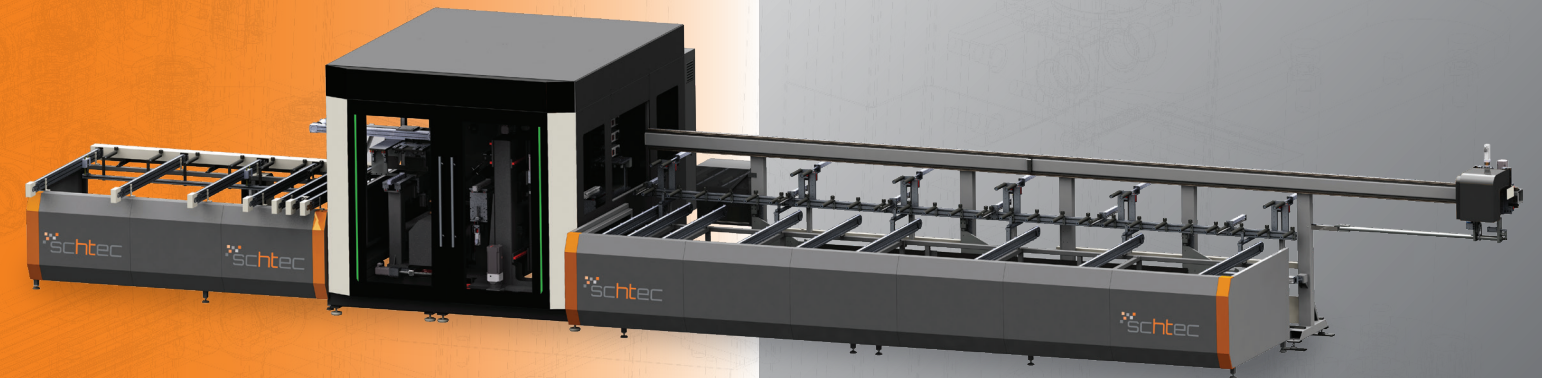




## MCALS 650 Aluminium Profile Machining and Cutting Center



**Schtec Makine San. ve Tic. A.Ş.**  
PVC & Aluminium Profiles Processing Machinery

İkitelli O.S.B Suleyman Demirel Bulvari  
Heskok Is Modern Sanayi Sitesi  
J Blok Floor: 3 No: 44 34490  
Basaksehir / Istanbul / Turkey

Phone : +90 (212) 852 01 61  
Fax : +90 (212) 852 88 87

[www.schtec.com](http://www.schtec.com)  
[info@schtec.com.tr](mailto:info@schtec.com.tr)



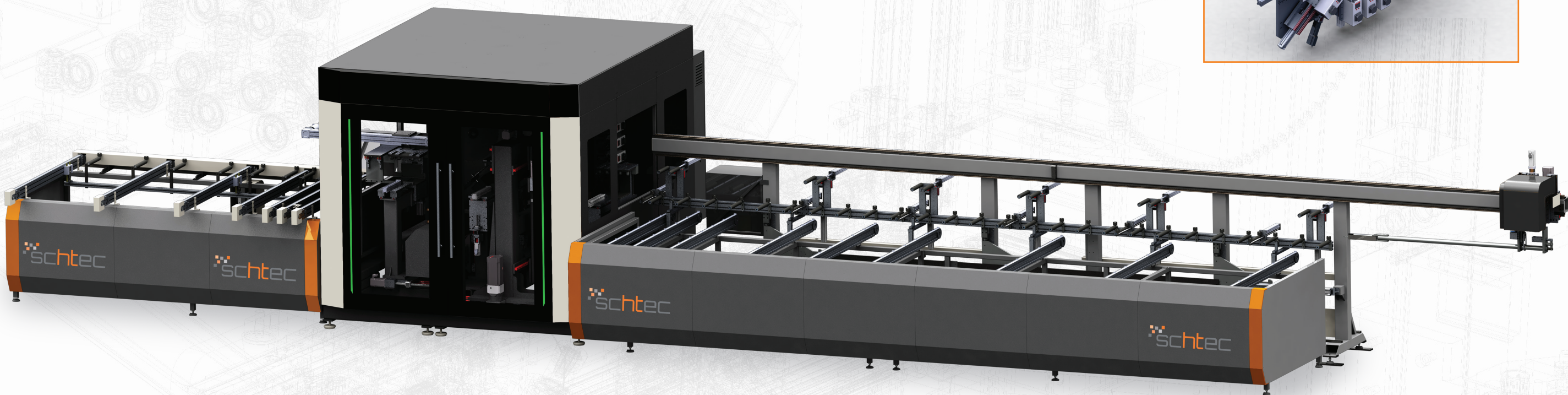
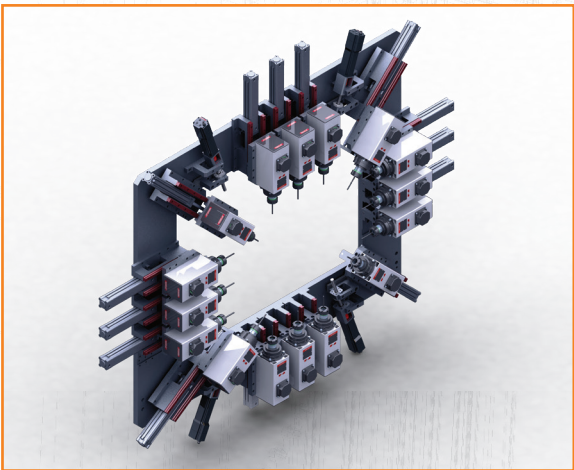
[www.schtec.com](http://www.schtec.com)

\* The right to make alterations are reserved.



**MCALS 650**

Aluminium Profile Machining and Cutting Center



**Standart Features**

- On Aluminium profiles, all drilling, milling, marking, and cutting processes are carried out under computer control.
- Operates with high efficiency with 24 high-precision axes controlled servo motors,
- Capacity for loading 6 profiles, capable of loading profiles up to 7 meters in length.
- Automatic cutting with 0.1° precision using a Ø600mm vertical saw, servo motor controlled.
- Automatic cutting with 0.1° precision using a Ø400mm horizontal saw, servo motor controlled.
- Servo-controlled gripper that can rotate 0° to 180°.
- Capability to perform milling, drilling, and angled drainage channel operations.
- Waste collection conveyor and wasting bin inside the machine.
- PC-controlled, capable of 3+3 = 6-axis interpolation in two separate groups (Saw-CNC).
- Precision operations with 16 tools located at the milling station.
- Intermediate angle operation capability with a 4-angle servo-controlled tool.
- Height-adjustable servo-controlled clamp units in the Saw and Milling groups.
- Electronic horizontal and vertical clamp control in the saw group.

- High-performance coolant system arranged for use during profile processing.
- Low power consumption enabled by smart control technology.
- DC connection in axis drives for greater energy efficiency.
- Uninterruptible Power Supply (UPS).
- High-performance industrial PC with a 15" touchscreen, Windows 10 Embedded OS, operates fanless between 0°C and 55°C.
- Industrial PC Based Servo Control System (Beckhoff)
- Online diagnostic and troubleshooting via user friendly interface.
- Compatible with IoT & Industry 4.0.
- User-friendly interface and online diagnostics and fault detection via I/Q and pneumatic system BUS control.
- Ability to upload job files via USB or Network and connect remotely to the machine.
- Centralized lubrication system that simplifies machine maintenance.
- Fast and efficient remote service via online connection.
- Option: 3-axis servo-controlled profile fitting unit.

**Technical Specifications:**

Voltage	: 400 V, 3 pH, 50-60Hz	Max Profile Length	: 7000 mm
Power Consumption	: 40 kW, 100 A	Air Pressure	: 7 bar
Spindle Speed	: 24,000 rpm	Air Consumption	: 3,600 l/min.
Spindle Power	: 4.5 kW, S6	Machine Height	: 2780 mm
Collet Type	: ER 25, ER 25 mini	Machine Length	: 16,780 mm
Maximum Tool Count	: 16 units	Machine Width	: 4,180 mm
Max Profile Height	: 240 mm	Machine Weight	: 9,450 kg
Max Profile Width	: 300 mm		

**Optional:**

- 3-axis servo-controlled profile fitting unit.