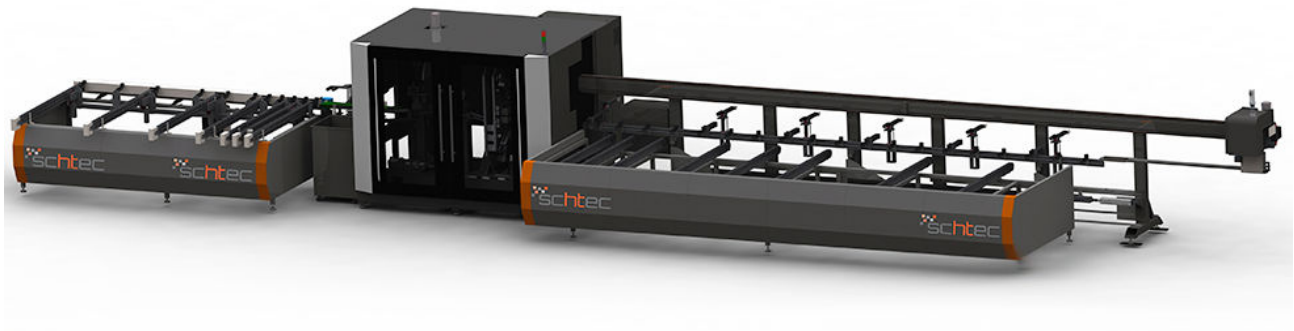




SMC 330-AL Profile Processing & Cutting Center

SCHTEC SMC 330-AL is an advanced CNC solution designed for aluminum profile machining with full automation and Industry 4.0 connectivity. It combines servo-controlled cutting (30°–150°), a 13-tool milling station, and a powerful industrial PC system to deliver exceptional precision, speed, and reliability for window and façade system production.

Standard Features

- CNC center performs drilling, milling, marking, and cutting operations under computer control.
- High-precision servo axes ensure superior accuracy and efficiency.
- Profile loading capacity: up to 11 profiles, max length 6.5 m.
- Automatic cutting at any angle 30° – 150° with Ø600 mm vertical saw (servo-controlled, 0.1° precision).
- Servo-controlled gripper rotates 0° / 180°.
- Performs angled water-drainage channel and other milling/drilling operations.
- 13-tool milling station for complex processing.
- 3 servo-controlled angled tools for intermediate-angle machining.
- Servo-controlled clamping group at saw output.
- High-performance cooling system ensures ideal machining conditions.
- Smart-control technology minimizes energy consumption.
- DC link axis drives improve energy efficiency.
- UPS-equipped system guarantees uninterrupted operation.
- 15" touch screen + industrial PC (Windows 10 Embedded, fanless 0–55 °C).
- Beckhoff industrial control system with IoT & Industry 4.0 compatibility.
- User-friendly interface with BUS-controlled I/O and pneumatic systems for online diagnostics.
- File transfer via USB or network + remote access capability.
- Centralized lubrication for simplified maintenance.
- Remote online connection enables quick, effective technical support.

Product Description

The Schtec SMC 330-AL is a state-of-the-art CNC machining center engineered for high-precision aluminum profile processing. It integrates drilling, milling, marking, and automatic angle cutting in one compact, fully automated unit. With 11-profile loading, Ø600 mm servo-controlled saw, and 13-tool high-speed milling (24 000 rpm), it delivers maximum productivity with minimal energy use. The Beckhoff-based control system, intuitive 15" touch interface, and remote diagnostic capability make the SMC 330-AL a future-ready choice for aluminum window and façade manufacturers seeking reliability, efficiency, and precision.

Technical Specifications

Power Supply	400 V, 3 Ph, 50-60 Hz
Total Power	40 kW / 100 A
Spindle Speed	24 000 rpm
Spindle Power	1.6 kW (S6)
Chuck Type	ER 25 / ER 25 mini
Maximum Tool Capacity	13 pcs
Maximum Profile Height	160 mm
Maximum Profile Width	130 mm
Maximum Profile Length	6 500 mm
Air Pressure	7 bar
Air Consumption	1 250 lt / min
Machine Height	2 480 mm
Machine Length	16 670 mm
Machine Width	3 420 mm
Machine Weight	5 530 kg