

# AL-230 Profile Machining Center

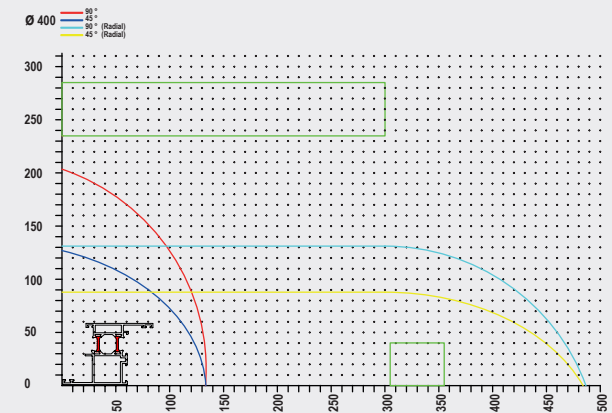
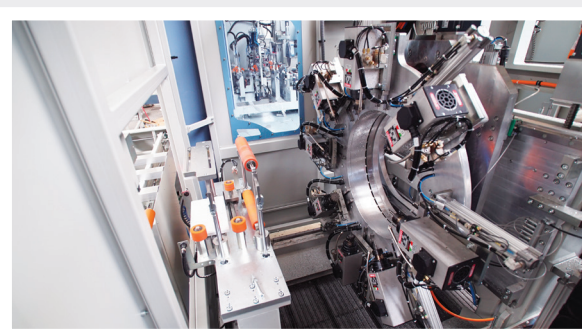
PROFILE MACHINING CENTERS » AL-230

- All cutting, notching, milling, drilling and marking operations on the aluminum profiles have been pieced together in a single, comp.-controlled machine.
- 7 profile stacking capability. (maximum profile length: 7500 mm (295.27 in.))
- Servo motors allow automatic vertical sawing at all angles between +65° and -240° in 0.1° increments. (600 mm (23.62 in.) diameter blade)
- Servo motors allow automatic horizontal sawing at all angles between 45° and 135° in 0.1° increments. (400 mm (15.64 in.) diameter blade)
- Able to work with high speed and sensitivity thanks to 15 axes controlled by servo motors.
- 0°-360° rotatable servo controlled gripper.
- Able to perform opening, drilling and milling operations of angled water drainage channels.
- Able to carry remaining waste parts to the waste chamber with an automatic conveyor system.
- Able to perform all operations sensitively with 8 tool set being standard in the rotary milling group.
- 15.6" Touch screen.

**OPTIONAL**

- Servo controlled 3-axis end milling unit.

- High performance industrial PC having Windows 10 operating system and working between 0°C - 55°C (32°F – 131°F) without an additional fan.
- Working with production data coming from different window production software by giving minimum waste.
- All error messages can be monitored from the screen by the machinery software department.
- Able to provide service with remote connection method and troubleshooting by connecting to the whole automation system.
- Operating system ensures maximum safety measures against virus spreading and user errors by cleaning unnecessary processes of the last login automatically at every opening/closing of the machine.
- Remote network connection or data transfer via USB.
- Possibility to perform daily backup operation to internal back up unit automatically.
- Daily, weekly, monthly and annually production control with shift control system.
- Central lubricating system that facilitates the machine maintenance.



**Cutting Unit :**

• Vertical cutting saw blade diameter: 600 mm (23.62 in.)	• Maximum profile height: 230 mm (9.05 in.)	• Blade motor power of vertical cutting-off machine: 3 kW (4.02 hp.)
• Horizontal cutting saw blade diameter: 400 mm (15.74 in.)	• Minimum profile width: 30 mm (1.18 in.)	• Blade motor power of horizontal cutting-off machine: 1.5 kW (2.01 hp.)
• X-axis travel (vertical saw): 425 mm (16.73 in.)	• Minimum profile height: 30 mm (1.18 in.)	• Maximum profile cutting length: 7500 mm (295.27 in.)
• Y-axis travel (vertical saw): 950 mm (37.40 in.)	• Maximum bar length: 7500 mm (295.27 in.)	• Minimum profile cutting length : 300 mm (11.81 in.)
• Z-axis travel (vertical saw): 600 mm (23.62 in.)	• Minimum bar length: 1200 mm (47.24 in.)	• Machine length: 18200 mm (716.53 in.)
• Y-axis travel (horizontal saw): 880 mm (34.64 in.)	• Bar loading system (pcs.): 7	• Machine width: 4900 mm (192.91 in.)
• Z-axis travel (horizontal saw): 300 mm (11.81 in.)	• Angle range of vertical cutting-off machine: 0° to 360°	• Machine height: 2730 mm (107.48 in.)
• Maximum profile width: 300 mm (11.81 in.)	• Angle range of horizontal cutting-off machine: 45° to 135°	• Machine weight: 8500 kg (18,740 lbs.)

**Milling Unit :**

• X-axis travel: 425 mm (16.73 in.)
• Y-axis travel: 470 mm (18.50 in.)
• Z-axis travel: 325 mm (12.79 in.)
• C-axis travel (rotary base rotation): 0° - 315°
• Number of spindle motors: 8
• Maximum spindle power in S1: 4.5 kW (6.03 hp.)
• Maximum spindle speed: 18000 rpm
• Tool connection: ER 32