

AS 490



AUTOMATIC PROFILE CUTTING MACHINE WITH SERVO



MACHINE DESCRIPTION

Automatic cutting of aluminum profiles at 90 degrees between 3 mm – 600 mm in one stroke and up to 3,000 mm in 5 strokes, adjusted via PLC and servo motor. Focusing on all kinds of industrial and architectural profiles.

The machine feeds the profile via servo motor and a gearbox connected to a ball screw.

The cutting dimensions, complete profile bar size, cutting quantity, and similar information are entered into the PLC via a 7" touch panel.

The saw blade moves from back to front via a hydraulic cylinder.

Saw blade diameter: 500 mm.

Saw blade power: 4.0 kW on a belt-driven system, cutting smoothly at a constant 2,800 rpm.

The machine has a customized clamping system that can clamp the profile bar and the cut piece simultaneously, while also helping to extract swarf through its clamping hood.

The saw blade cylinder moving the blade forward is connected to the clamping hood; the blade moves until the piece is cut, then retracts from that specific distance. It is possible to adjust the saw feed speed through a pneumatic valve.

Maximum loading weight of the profile: 75 kg.

Maximum cutting diameter: 160 mm.

Maximum width of the profile to be cut: 142 mm.

Maximum height of the profile to be cut: 340 mm.

The remnant piece at the end is 80 mm.

Two horizontal and two vertical clamping pistons for a perfect grip of the profile.

1.5-meter roller conveyor.

