



FEATURES

- Automatic 90° straight cutting operations for extrusions made of non-ferrous material
- High precision servo motors and ball screw linear motion system
- Servo controlled profile feeder. The drilling is servo controlled with an automatic cross positioning.
- Horizontal and vertical clamping of the work-piece during the cutting operation
- Table separation before the saw blade retracts preventing saw blade to contact material cut when returning. This feature provides increased surface quality and longer saw blade life.
- High cutting accuracy thanks to the rigid mechanical structure
- Piece counter for single or multi-bar (bundle) cutting
- Programmable spray saw blade lubrication system via control panel (MQL)
- Large memory capacity for the cutting programs
- The machine shuts down automatically after reaching the requested quantity or profile finished
- Operator safety guard equipped with interlock switch
- Windows based industrial PC and 7" LCD colour touch screen
- Chip extraction port
- Highest quality, globally renowned pneumatic, electrical and electronic components

TECHNICAL DATA

- 4 kW (5.3 HP), 230V, 3 Phase Motor, 50/60 Hz
- Saw blade speed: 2500 RPM
- Blade diameter: 500mm (19.7")
- Blade hub diameter: 30mm (1.18")
- Feeding from 5mm (0.2") to 1000mm (39.4") lengths in one stroke and no limits with step feeding
- Positioning accuracy $\pm 0.1\text{mm}$ (0.004")
- Operating air pressure: 6-8 Bar (87-116 psi)
- Air consumption: 170 litres/min (45 gal/min)

STANDARD EQUIPMENT

- Saw blade \varnothing 500mm (19.7")
- SK 500 roller conveyor - 2.3m (7.5')
- Ball screw lubrication system
- 3 Pneumatic vertical clamps
- 3 Pneumatic horizontal clamps
- MQL saw blade cooling system
- Air blower gun

Automatic Saw with Drilling YILMAZ SK 500D

The SK 500 D is designed for repetitive straight (90°) cutting Aluminum extrusions along with a vertical drilling capability. The SK 500 D is equipped with a servo motors and a PLC unit so the feeding, cutting and drilling process is fully automatic with an accuracy of $\pm 0.1\text{mm}$. The servo motor is used to drive the automatic material feeder. Saw blade is straight up-stroke. The operator can enter the cutting speed, cutting length, cutting height, and number of cuts via touch screen display or through the cutting list. The drilling is servo controlled with an automatic cross positioning.

Modes of operation include: Cutting From List, Normal Cutting (manual entry), Single Cut

Cutting lists are prepared in Microsoft Excel (csv) and transferred to the machine with USB memory stick. Alternatively, they can be made by using the touch screen. If the cutting list function is not used, "Normal Cutting" mode allows the operator simply to enter the required length and quantity and start the process. Also single cuts are possible just like a traditional up-cut saw.

The work table separates before the saw blade retracts to avoid back-cutting. SK 500 can cut from 5mm (0.2") to 1000mm (39.4") lengths in one stroke and no limits with step feeding. Equipped with profile detection sensor for auto shut down when job is completed or profile is finished.

Safety hood is interlocked and cannot be opened during the cutting operation.

OPTIONALS

- Spare \varnothing 500mm (19.7") saw blade
- 20 litres (5.3 gal) pail of cutting fluid
- Aluminum dust & chips collector

STANDARD ACCESSORIES

- 2.5 meter of infeed roller conveyor
- Equipped with saw blade \varnothing 500 mm
- Spray saw blade lubrication system
- Air gun
- 3 x horizontal clamps
- 3 x vertical clamps

OPTIONAL ACCESSORIES

- Additional saw blade with \varnothing 500 mm
- VCE 1570 chip vacuum extractor
- 2.5 meter of outfeed conveyor
- Extending kit for 5 meter of infeed roller conveyor