



THE PRECISION SAW

BRIGANTO CROSS CUT AUTOMATIC EXTRUSION & CUT-OFF SAW

HIGH PERFORMANCE LEADS TO MORE PRODUCTIVITY



APPLICATION RANGE

- . Automatic and high precision cut-to-length cutting of Aluminum and Non-Ferrous Metal extrusions.
- . Flexible cut-to-size center for Metal Distribution Centers.
- . High volume trim and cut-to length lines for Aluminum Extrusion Mills.

THE WORKING PRINCIPLE

- . Dynamic material loading onto the staging and positioning area.
- . Aligning of material against the squaring rail.
- . Material specific clamping device (without template).
- . Automatic dimensional material inspection.
- . High precision positioning of material during cutting sequence.
- . Vertical material fixation with a solid pressure beam (without template).
- . Cutting sequences executed with pre-programmed cutting parameters.
- . Material protective discharge of cut pieces and intelligent material staging.
- . Automatic segregation of cut pieces and scrap.
- . Open interface platform towards higher level systems (MDE/BDE, Product Management Systems).
- . Optional expansion stages for additional processes (deburring, cleaning, measuring, stacking, etc.).



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TECHNICAL DATA

Cutting width _____	650 mm / 25 ½ inch
Maximum material thickness _____	250 mm / 10 inch
Maximum loading weight _____	110 kg/m / 245 lbs/40 inch
Maximum material length _____	Customer specific
Power of Saw motor _____	38 kW / 50 HP
Saw carriage speed _____	0.1 – 80 m/min / 4 – 3200 inch/min

MACHINE ACCURACY

Tolerance cut-to width _____	+/- 0.1 mm / 0.004 inch
Tolerance cutting height _____	+/- 0.05 mm for 100 mm cutting height / 0.002 inch for 4 inch height
Positioning accuracy of positioning carriage _____	+/- 0.05 mm / 0.002 inch

YOUR BENEFITS

- . Highest flexibility – from a thin-walled extrusion up to solid round bars, all processed on one machine.
- . No set-up time for different extrusion shapes.
- . Highest dimensional and squareness accuracy.
- . Best possible surface cutting quality due to selectable saw blade projection.
- . Optimum material surface protection.
- . Technical solution for pipe cutting.
- . Rest piece at the back (clamped) < 50 mm / 2 inches.
- . Intuitive and operator friendly machine controls and with touchscreen.
- . Cutting parameter library considering material and saw blade data.
- . Modular built for future add-on components, up to a fully automatic system.

