Heavy Duty Double Mitre Saw (ATH-G500S/D)

Features:

This machine is mainly used for 45 °/90 ° cutting and cutting of aluminum alloy, door and window curtain wall profiles. The cutting tool uses a hard alloy circular saw blade, with a diameter of up to 500mm, a wide processing range, fast cutting speed, and high production efficiency.

1) Machine Structure

This machine is a single drive dual track structure, and the bed is welded with national standard steel. After welding, it undergoes heat treatment to ensure that the base has sufficient rigidity and stability, ensuring that the machine will not deform during long-term use. The box, swing arm, and support plate mechanism are all cast, annealed, and precision machined.

Definition of each coordinate axis:

X-axis: Left and right lateral movement (travel 4500mm)

2) Workbench structure

The workbench consists of two cast boxes, one fixed head and one moving head. The saw head of the machine is installed on the swing arm seat and adopts a front swing arm type feed, driven by a gas-liquid damping cylinder at the back. The sawing motor adopts high-quality three-phase motor, which is stable and durable.

3) PLC

The motion control is composed of high-precision servo drive motors, reducers, high-precision gears and racks, with high positioning accuracy and simple and fast operation.

The machine operating table is equipped with a LCD touch screen, on which operators can input the length, angle, and cutting quantity of the material to be cut.

4) Automatic cooling system

The machine is equipped with an automatic cooling system during processing, which sprays out a small amount of oil mist but has a good cooling effect. It effectively prevents the saw blade from heating up and getting stuck on the blade and does not cause too much oil residue on the profile, delaying the tool's service life. The control system and electrical cabinet are equipped with a heat dissipation and cooling system.

5) Clamps

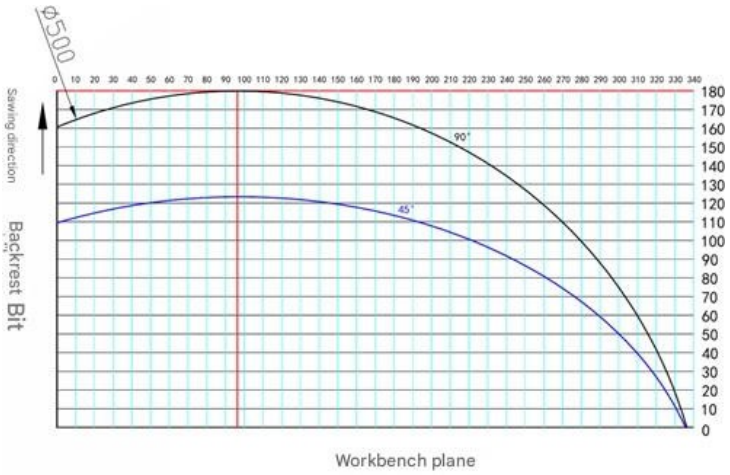
The workbench is equipped with a bidirectional clamping device, driven by a cylinder, which can achieve reliable clamping of the profiles. There is a support frame behind the right workbench, and two auxiliary movable support frames, which can meet the requirements of different specifications of profile loading and cutting.

6) Automatic feeding function

In addition to cutting with dual saw blades simultaneously, this machine can also use a single saw blade for cutting. This is mainly used for cutting beyond the range of double saw cutting, which requires two cuts. There are two motor start buttons installed on the operation panel. Press either button, and the corresponding saw blade motor will rotate. After pressing the material, press the start button. The side where the motor starts will start feeding, and the side where the motor does not start will not feed. If both motors are started, both sides will feed simultaneously. This machine also has the function of cutting corner codes, which can cut various corner codes of 3mm or more, and can achieve automatic feeding during cutting.

7) Safety protection

When designing the machine, full consideration is given to the safety of use. A safety protective cover is installed at the back of the box, and a protective cover is also installed on the head of the machine, which can effectively protect the personal safety of workers. The moving part of the saw head is completely covered in a secure cover, and the control system is equipped with a two handed operation safety control. We can see the processing of the saw blade inside through the glass on the safety cover.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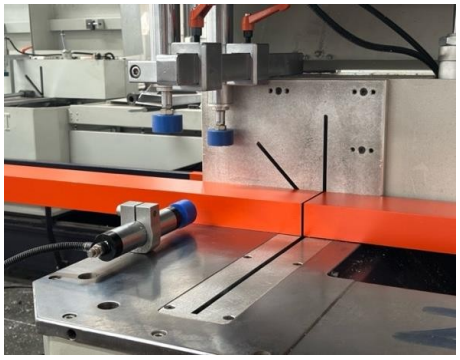
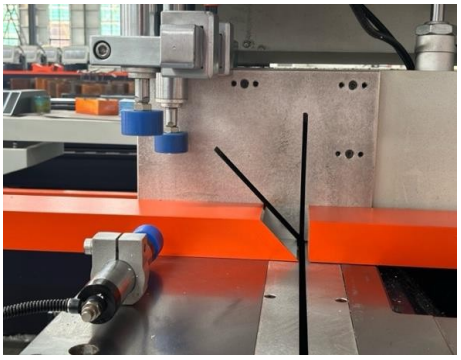
Sawing direction
Backrest Bit
90°
45°
Workbench plane





TECHNICAL PARAMETERS:

Cutting Blade Angles	45°/90°
Control System	PLC/Manual
Special cutting ability	Cutting ultra-short materials
	Cutting ultra-long materials
Dimensional Machining	450~4500mm (X-Axis)
45°machining width	190mm
45°machining height	110mm
90°machining width	195mm
90°machining height	160mm
Spindle Power	3KW*2
Maximum Workpiece	210mm(w)*150mm(h)
Machining Precision	±0.1mm
Blade Diameter	Φ 500mm
Voltage	380v/50hz
Working Air Pressure	0.6~0.8mpa
Dimensions	6000×1500×1500mm
Weight	2000kg