karmetal SAWlutions

CYCLONE 100
HIGH PERFORMANCE AUTOMATIC CIRCULAR SAWING MACHINE

*Photos may include optional accessories.

PROSAW

CUTTING CAPACITY

	∅360
	15-100 mm
	15-90 mm

TECHNICAL SPECIFICATION

Main Motor	15 kW
Hydraulic Motor	1,5 kW
Front Servo Motor	400 Watt, 2.000 rpm (Optional)
Rear Servo Motor	400 Watt, 2.000 rpm
Bow Servo Motor	1.500 Watt, 2.000 rpm, with Brake
Conveyor Motor	0,37 kW
Swarf Brush Motor	2.000 rpm, 4,6 Nm Step Motor
Front Feeding Length	20 mm (Multi Index) (Optional)
Rear Feeding Length	750 mm (Multi Index)
Blade Speed	40-210 m/min
Working Height	950 mm
Blade Dimension	Ø360x2,6 mm
Weight	3.600 kg
Machine Dimensions	1.500 .200*)x2.700x1.770 mm

* Dimension with loading table.

PROSAW

STANDARD ACCESSORIES

7” HMI Touch Screen Control Panel

- Manual and Automatic Mode adjustment.
- 50 different work program
- Easy language selection.
- Cutting information on the screen.
- All alarms on the screen.

SERVO CONTROLLED BOW MOTION

- Linear motion with ball screw and linear bearings.
- Speed in the range of 1~10,000 mm/min.
- Full control over cutting pressure.

SERVO CONTROLLED REAR VISE

- Servo motor controlled, 750 mm stroke rear vise.
- Closing up to 20 mm on front and rear clamps.
- When the cut is finished, the rear vise moves away from the blade, allowing the blade to lift up without friction.

HYDRAULIC FRONT AND REAR VISES

- Both vises are hydraulically clamping.
- There is a pressure switch on the front vice. This way, the cutting process does not start until the vice has tightened the material properly.
- While the material is being fed, the rear vice group is lifted up slightly hydraulically to prevent the material from rubbing

ADJUSTABLE VISE PRESSURE

- The pressure applied by both clamps can be increased or decreased from the hydraulic control panel.

PALLET TYPE CHIP CONVEYOR

- Speed adjustment with frequency inverter
- Easy adjustment of working interval and duration.
- The conveyor exit is towards the back of the machines

BLADE CLEANING BRUSH SYSTEM

- Blade rotating at speeds up to 2000 RPM
- Brush speed is adjusted to suit variable blade speed using a stepper motor.

MICROMOLECULAR COOLANT SYSTEM

- Cooling is provided by spraying vegetable oil into the cutting area with the air.

AUTOMATIC SLIDE LUBRICATION UNIT

- The body movement slides and vice movement slides in the machine are periodically lubricated automatically by means of the automatic slide lubrication unit.

AUTOMATIC SCRAP SEPERATOR

- When a new material is loaded on the machine, the front and rear scraps are seperated by the seperator.

OPTIONAL ACCESSORIES

3rd VISE

- When installed on the front of the machine, reduces remnant to 20 mm.

BUNDLE LOADING MAGAZINE

- A special magazine which can be loaded more material with respect to standard magazine.

TABLE FOR UNLOADING THE CUT PIECE

- Instead of free fall of the cut materials, a removed from the machine by conveyor and It is a system that allows it to be dropped onto the ropes.
Generally for materials with long cut lengths used.

MIST COLLECTOR

MATERIAL LOADING TOWER - ARX (ASRS)

- Materials with different properties and dimensions stockpiled separately from each other and the the material is fed into the machine one by one, one by one, untouched by human hands. is a system that allows loading.
- It can have the desired number of cassettes.

The tower, which can be designed, is specially designed according to customer needs.

CUT PART STACKING ROBOT - ORDINA (IRA)

- Instead of the cut materials falling freely, held with the help of a magnet and introduced to the machine on the pallet/platform is the system.

STACKED PARTS HANDLING ROBOT - SERVANT (AMR)

- In factory internal logistics with natural navigation, with natural navigation offering customizable transport structure is an autonomous mobile robot.