



karmetal
*SAW*lutions






CYCLONE 100

HIGH PERFORMANCE AUTOMATIC CIRCULAR SAWING MACHINE

*Photos may include optional accessories.

CUTTING CAPACITY

	Ø 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.

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 vise. This way, the cutting process does not start until the vise has tightened the material properly.
- While the material is being fed, the rear vise 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.

STANDARD PACKAGING



OPTIONAL PACKAGING



TERMS

Delivery (After Receipt of written PO) :

Type of Delivery : **Exwork**

WARRANTY CONDITIONS

The machine is under the warranty of KARMETAL LTD. ŞTİ. For a period of 2 years for mechanical parts, 1 year for electric and electronic parts from the date of purchase. This warranty is subject to all of the terms and conditions listed below:

1. This warranty is valid only if the Warranty Registration Form is filled in and returned to the manufacturer or its authorized dealer within two months after the date of purchase.
2. The obligation of the manufacturer under this warranty shall be limited to repairing or replacing components which proves defective and which our examination shall disclose to our satisfaction to be defective.
3. Defects due to improper operation, misuse, neglect, alteration, irregular voltage conditions, inadequate wiring, improper installation (all electrical and electronic components, all electrical motors etc.) and due to accidents or any damage caused by transportation, flood, fire, natural disasters, theft are not included in this warranty and are strictly the responsibility of the purchaser.
4. Any part returned to KARMETAL or its authorized dealer under the terms of this warranty shall be on the basis of transportation charges prepaid by the customer and must be accompanied by a record of the machine model code and serial number.
5. This warranty does not apply to the following components; band saw blade, blade pressure pads or brackets and blade guide bearings because of being consumables.
6. Manufacturer and authorized dealer cannot be blamed within maximum repair period for the material or moral damage. Apart from that act the period as Warranty Conditions and there will not be done any retroactive requirement.



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KARMETAL has right the change technical data and pictures without notice.