




**karmetal**  
*SAW*lutions



## **ULTRA 300x300 AUTONOMOUS BAND SAW MACHINE**

\*Photo may feature machine with optional accessories.

## CUTTING CAPACITY

|   |            |
|---|------------|
|  | 0°         |
|  | 300 mm     |
|  | 300 mm     |
|  | 300x300 mm |

## TECHNICAL SPECIFICATIONS

|                          |                          |
|--------------------------|--------------------------|
| Main Motor               | 21 kW, ~ 1.500 rpm       |
| Hydraulic Motor          | 1,5 kW                   |
| Hydraulic Tank Capacity  | 35 Liter                 |
| Coolant Motor            | 1,1 kW (High Pressure)   |
| Coolant Tank Capacity    | 280 Liter                |
| Conveyor Motor           | 0,37 kW                  |
| Swarf Brush Motor        | 0,25 kW                  |
| Bow Servo Motor          | 2.000 Watt, 3.000 rpm    |
| Back Servo Feeder Motor  | 750 Watt, 3.000 rpm      |
| Front Servo Feeder Motor | 750 Watt, 3.000 rpm      |
| Front Feeding Stroke     | 300 mm (Multi Indexing)  |
| Back Feeding Stroke      | 480 mm (Multi Indexing)  |
| Blade Speed              | 20-400 m/min             |
| Blade Dimensions         | 7.080 x 54 x 1.6 mm      |
| Machine Weight           | 6.000 Kg                 |
| Machine Weight           | 780 mm                   |
| Machine Dimensions       | 2.400 x 4.135 x 2.450 mm |

## STANDARD ACCESSORIES



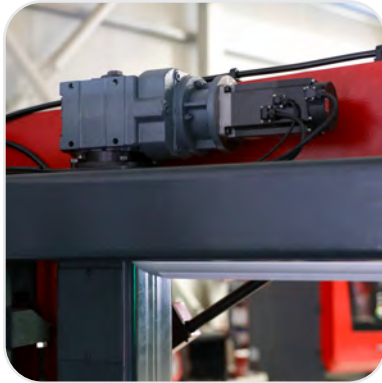
### 15,6" INDUSTRIAL PC

- Manual, automatic and intelligent cutting modes.
- All cutting datas can be stored and transferred to outsource.
- Communication via LAN and Wi-fi.
- Access to mobile devices via mobile application.



### INTELLIGENT SAWING (IPS)

- 13.000 different predefined material.
- Materials are listed in 6 different standards.
- 4 different sawing performance mode (Normal, Blade Saver, High Performance, Ultra Performance).
- Heat treated material defining.



### SERVO CONTROLLED BOW MOTION

- Ability to adjust the feed to 1 mm/min.
- Reducing the load on the ball screw with the use of hydraulic cylinder.
- Full control on the cutting pressure.
- In case of a problem on the ball screw, hydraulic cylinder locks the system and avoids the bow drop.



### SERVO CONTROLLED FRONT-REAR VISES

- Front vise can go beyond the blade to pull the remaining piece to reduce remnant to 10 mm.
- After the cut is finished, both vises move opposite direction of blade to avoid blade friction.
- Front vise bring to cut piece to predefined position (inclined surface or flat surface).



### 30° BLADE TWIST

- 3 times lower metal fatigue due to lower twist on the blade
- 1000 mm twisting distance from the wheel to the guide



### HYDRAULIC BLADE TENSIONING

- The blade can be tensioned easily to 300N/mm<sup>2</sup>.
- The blade tension is periodically controlled to avoid any loss of tension.



### SCRAPER TYPE CHIP CONVEYOR

- Speed control via frequency inverter.
- External warning light for faults on conveyor.
- Easy adjustment of operation frequency and duration.



### HYDRAULIC BLADE CARBIDE GUIDES

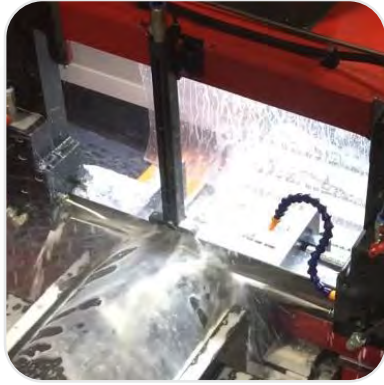
- Adjustable guide pressure on the blade.
- TiN coated carbide guides.



### 21 kW HIGHTORQUE MAIN MOTOR

- No loss of torque in neither low nor high frequency.
- High efficiency Mitsubishi brand inverter.





### HIGH PRESSURE COOLANT

- 80 liters/min flow rate of coolant.
- 12 points coolant output.
- Augmented coolant in the cutting channel.



### BLADE CLEANING BRUSH SYSTEM

- System with two brushes in two sides of the blade.
- 900 RPM rotating brushes.
- High pressure coolant for cleaning.



### MINERAL CASTING BODY



### PROXIMITY SWITCH

- In case of a jam of blade, stops the machine immediately and warns the operator.



### HYDRAULIC FRONT AND REAR VISES

- All four vise are mobile and hydraulic.



## ADJUSTABLE PRESSURES ON VISES BLADE TENSION AND CARBIDE GUIDES



## COVER

- Elegant design.
- Compatible with international safety regulations (contact safety relay etc.).
- Noise and steam isolation.



## 7 COLOR LED DISPLAY

- Blue when standby.
- Green while in operation.
- Red while not suitable for operation.
- Yellow while there is a warning during operation
- Flashing red while operation is interrupted because of an alarm during operation.



## 6m ROLLER TABLE WITH SIDE AND BOTTOM SHEET COVER

- Spaces between the rollers are filled with steel plates.
- Barriers of steel in the sides of the roller table.



## CROOKED CUTTING DETECTOR

- Deviation limits can be adjusted by the operator.
- Instant deviation is monitored on the 15,6" screen.

## OPTIONAL ACCESSORIES



### MIST COLLECTOR

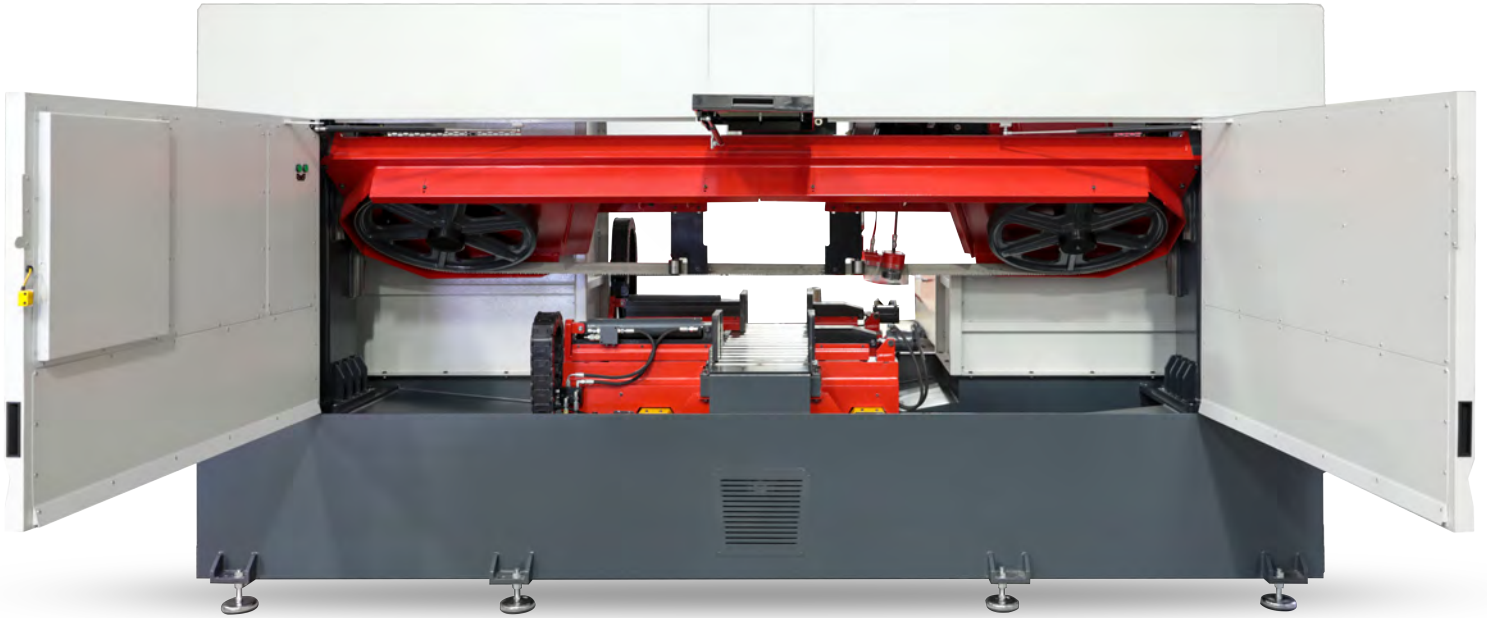


### FULLY AUTAMATED MATERIAL FEED SYSTEM

- Additional to standard roller tables special material feeding systems can be supplied.
- Motorized roller feeders in required length.
- Servo feed systems in required length
- Cross conveyors to shift the material between conveyors.



### LASER LINE INDICATOR





## TERMS

Delivery (After Receipt of written PO) :  
Type of Delivery : **Exworks**

## 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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