








**karmetal**  
*SAWlutions*



**VEGA 650x650 S-LINE  
AUTONOMOUS BAND  
SAW MACHINE**

\*Photo may feature machine with optional accessories

## CUTTING CAPACITY

	0 °
	650 mm
	650 mm
	650 x 650 mm
	400 x 400 mm

## TECHNICAL SPECIFICATIONS

<b><i>Main Motor</i></b>	: 7, 5 kW
<b><i>Gearbox</i></b>	: Bevel Helical PKD 3390 High Efficiency
<b><i>Hydraulic Motor</i></b>	: 1, 5 kW
<b><i>Coolant Motor</i></b>	: 0, 2 kW
<b><i>Conveyor Motor</i></b>	: 0, 37 kW
<b><i>Swarf Brush Motor</i></b>	: 0, 25 kW
<b><i>Material Feeding Stroke</i></b>	: 750 mm (Multi Indexing)
<b><i>Servo Feeder Motor</i></b>	: 750 Watt, 3000 rpm
<b><i>Bow Servo Motor</i></b>	: 750 Watt, 3000 rpm
<b><i>Blade Speed</i></b>	: 30-140 m/min
<b><i>Blade Dimensions</i></b>	: 6.700x54x1, 6 mm
<b><i>Machine Weight</i></b>	: 3.800 kg
<b><i>Machine Dimensions</i></b>	: 2.000x3.850x2.150

## STANDARD ACCESSORIES

### 15" Industrial PC

- Manual, automatic and intelligent cutting modes
- All cutting datas can be stored and transferred to outsource
- User authority definition
- Cutting information screen
- Work list transfer from PC and mobile devices
- Communication via LAN and Wi-fi
- Access to mobile devices via mobile application



### Intelligent Sawing (IPS)

- 1300 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
- Automatically selection of most appropriate cutting parameters depending on the cutting channel, material grade, heat treatment, sawing mode, blade type and blade TPI according to predefined parameters in the database. Parameters also vary during the operation



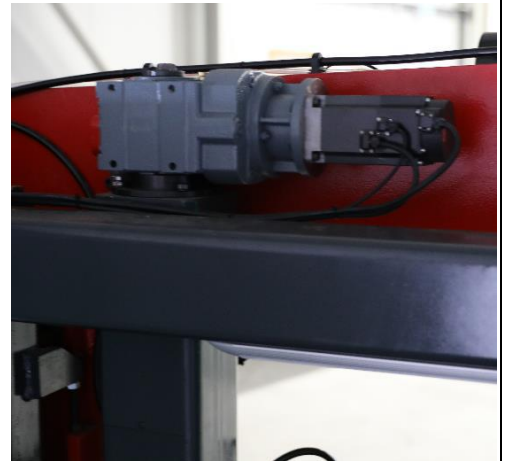
### Intelligent Cross-section Scanning (ICS)

- In case the workpiece is tangled, it is used to define the shape to the industrial PC
- There is a laser line and an industrial camera. By taking up to 25 photos for every mm while the bow moving down and combining them via a special software (image processing) the shape of the workpiece is taught to the machine.
- It is very beneficial especially for the bundle cutting operations.



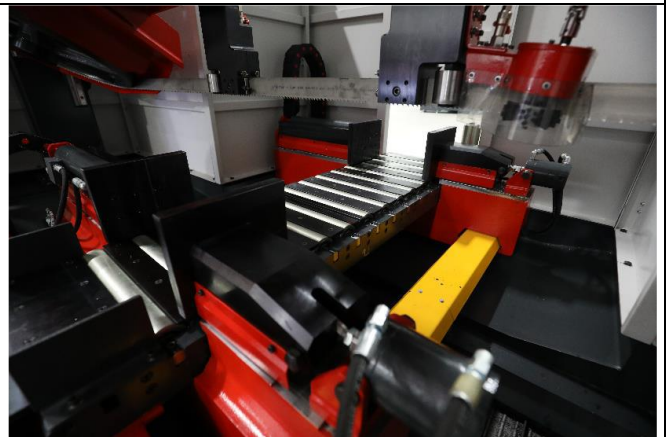
### ***Servo Controlled Bow Motion***

- Ability to adjust the feed to 1mm/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 Feeding Vise***

- Servo motor driven feeder vise with 750 mm stroke
- Both front and rear vises are full stroke
- Both front and rear vises have their fixed vises with a small motion
- 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)



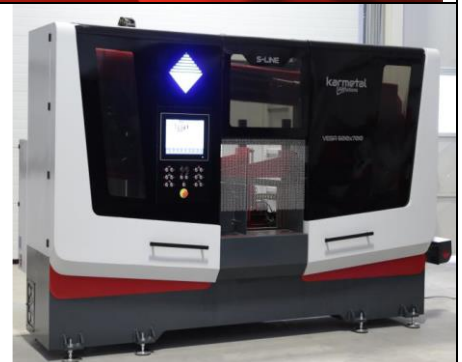
### ***Hydraulic Blade Tensioning***

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



### ***Cover***

- Elegant design
- Compatible with international safety regulations (2 contact safety relay etc.)
- Noise and steam isolation



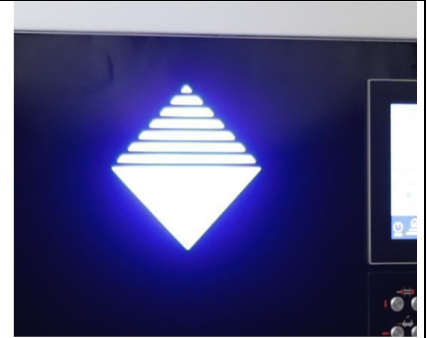
### ***Proximity Switch***

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

### ***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

Flashing green when operation is finished



### ***Chip Conveyor***

Remove swarfs from machine by  
Motor driven conveyor.



### ***Blade Cleaning Brush System***

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



### ***Adjustable Pressures on Vises, Blade Tension and Carbide Guides***



### ***2x2 mt 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



### ***Hydraulic Front and Rear Vises***

- All four vise are mobile and hydraulic



### ***Hydraulic Top Clamp For Both Front and Rear Vises***

- Top Clamps are separately controlled with the vises
- Full clamping tower type top clamps





## OPTIONAL ACCESSORIES

### ***Out of Square Cutting Detector***

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



### ***Mist Collector***



### ***Intelligent Cross-section Scanning (ICS)***

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### ***Fully Automated 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***



### ***Micro Molecular Coolant System***

