



## Circular Saw Blade Sharpening Machines

**Abrasive grinding solutions for manufacturing and machining applications throughout North America. Our experienced staff and network of resources are consolidated to provide a one-stop experience.**

**- Precision Sharpening -**

GMSi Group, Inc.

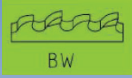


## Semiautomatic Saw Grinders

Semiautomatic saw blade grinding machines for HSS cold saws. Affordable professional class machines engineered and fabricated to the highest standards. A ridged floor standing model machine that will grind A, AW, B, BW and C type tooth forms.



A



BW

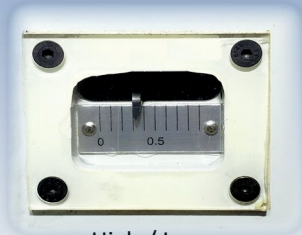


C

The grinding wheel is easily adjusted for chamfer grinding.

All adjustments are easy to perform and ergonomically placed.

**S-450C**  
Coolant



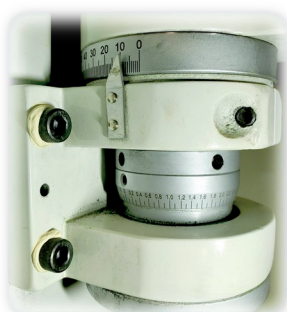
High / Low  
Teeth Indicator



High / Low Teeth  
Grinding Adjustment



Wheel Tilt Adjustment  
For Chamfers



Blade thickness  
Adjustment and angle

**S-450**



Optional tooling for sawblade  
diameter: 35 ~ 100mm

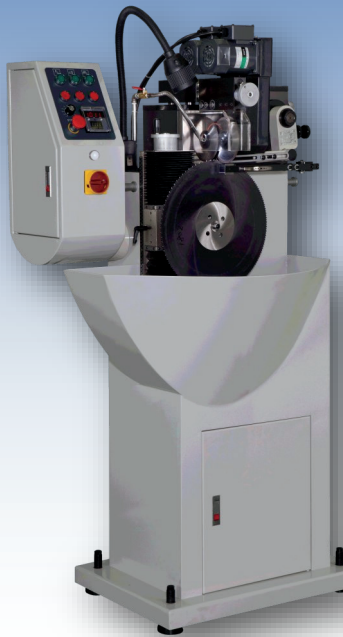
Specifications	S-300	S-450	S-450C
Sawblade Diameter	65 ~ 300mm	65 ~ 450mm	65 ~ 450mm
Chamfer Adjustment	N/A	+/- 45°	+/- 45°
Sawblade Thickness	8mm	8mm	8mm
Tooth Pitch	Up to 25mm	Up to 25mm	Up to 25mm
Grinding Speed	90 teeth /min.	90 teeth /min.	30 ~ 135 /min.
Cutting Angle	0 ~ 30°	0 ~ 30°	0 ~ 30°
Grinding Motors	0.37 kW	0.37 kW	0.37 kW
Transmission Motor	0.37 kW	0.37 kW	0.37 kW
Coolant Pump	N/A	N/A	1/8 hp
Grinding Wheels Dia.	150mm	150mm	150mm
Dimensions	75 x 68 x 72cm	73 x 93 x 155cm	113 x 92 x 160cm
Machine Weight	160 Kg	230 Kg	431 Kg



Large 30mm lubricated brass  
bearing for smooth sawblade  
feeding..

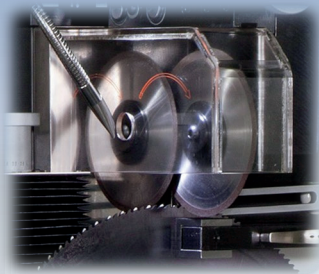
## Dedicated Application Machines

Automatic saw blade grinding machines for HSS cold saws. Affordable professional class machines engineered and fabricated to the highest standards. Simple to operate heavy duty floor standing machines.



### BW-650

Chamfering Machine



Precision automatic vertical-type chamfering machine, using stepless speed variation with grinding speeds from 30 ~ 100 teeth per minute.

Patented CBN grinding design with synchronized chamfering. Wheels operate on the left and right

Wet grinding to avoid saw blade charring. Coolant tank and pump are stored inside the machine.

Quick clamp saw blade device makes changing blades easy and efficient.

A tooth counter counts down the teeth and shuts down the process when blade is finished.

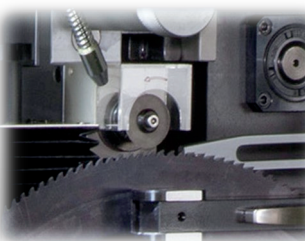
#### BW-650 (Chamfer )

<b>Grinding Range</b>	150 ~ 650mm	<b>Grinding Wheel Dia.</b>	125mm
<b>Teeth Pitch</b>	Up to 25mm	<b>Grinding Wheel Speed</b>	6600 rpm
<b>Blade Thickness</b>	8mm	<b>Grinding Wheel Motor</b>	300 w
<b>Grinding Speed</b>	30 ~100 Teeth /min.		



### BR-650

Chip Break Machine



Precision automatic vertical-type chip-break slot grinding machine, allows for variable grinding speed from 15 ~ 50 teeth per minute.

Variable high-frequency spindle with speeds up to 40000-rpm which effectively extends the life of the grinding wheel.

Wet grinding to avoid saw blade charring. Coolant tank and pump are stored inside the machine.

Quick clamp saw blade device makes changing blades easy and efficient.

A tooth counter counts down the teeth and shuts down the process when blade is finished.

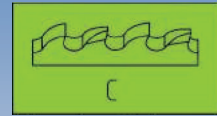
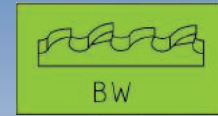
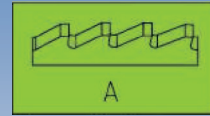
#### BR-650 (Chip Break)

<b>Grinding Range</b>	140 ~ 650mm	<b>Grinding Wheel Dia.</b>	30mm
<b>Teeth Pitch</b>	Up to 25mm	<b>Grinding Wheel Speed</b>	1,000 ~ 40,000 rpm
<b>Blade Thickness</b>	8mm	<b>Grinding Wheel Motor</b>	0.25 kw
<b>Grinding Speed</b>	50 ~50 Teeth /min.		





## CNC Saw Blade



### EMA 3

**CNC** Circular Saw blade Sharpening Machines with **three axes** serve a wide range of applications. They allow you to set the number of teeth, sharpening amounts, cutting angles and back clearance. The machine ensures high repeatability at any time.

### EMA 4

**CNC** Circular Saw blade Sharpening Machines with **four axes** serve a wide range of applications. They allow you to set the number of teeth, sharpening amounts, cutting angles, back clearance and additional setup. Choose your tooth form, enter your variables and the machine will complete the cycle in a few seconds.

### Machine Base

High rigidity with heavy steel weldment along with heavy cast supports. Precision linear guide ways and servomotors.

### Work area

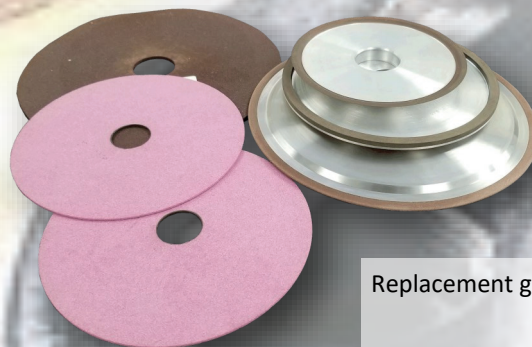
Special design for safety and noise reduction. All stainless steel and a high efficiency filtration system. A brilliant work environment.

### Grinding Motor

Powerful 5-hp grinding motor driving a high precision dynamically balanced grinding wheel.



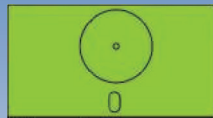
Satisfied customers  
world wide



Replacement grinding wheels available from our stock  
in Oxford Massachusetts



## Grinding Machines



### A series

o control. Fully automatic operations for saw blade outer diameter, angle angles. This is a high speed and highly reliable machine with exact y operator skill level.

### A series

p control. Fully automatic operations for saw blade outer diameter, angle angles **and chamfer**. Chamfering is accomplished without any and select chamfer type. The LED stack light will indicate when the complete.

### le and Support

ports, fabricated to the highest standards for longevity and accuracy. s are used in both grinding wheel axis.

### a Enclosure

nd smooth interior will resist corrosion and flows dirty coolant to the p aluminates the complete work area.

### otor & Spindle

balanced spindle. Variable up to 6000-rpm via high precision spindle.



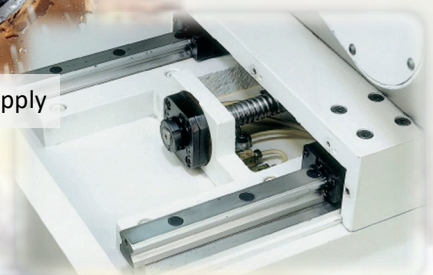
Locking device for grinding wheel



Patented quick locking blade clamp



High pressure coolant supply



Precision linear ways and ball screw

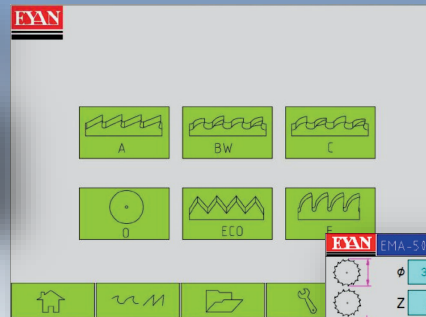


Replacement spare parts, field service and application assistance for all models

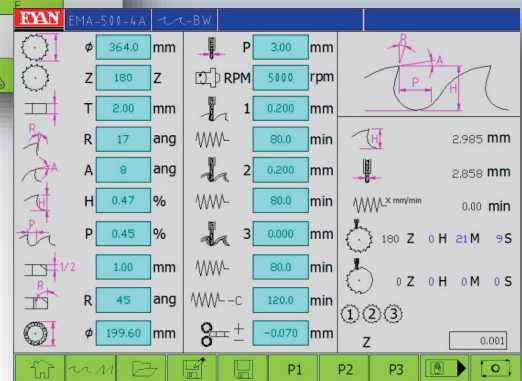


## EMA-Series:

High speed sawblade sharpening machine for HSS cold saws, friction saws and high efficiency tooth removal.  
Heavy duty construction and high accuracy.



Easy to navigate, proprietary interface allows setup your next two blades while the machine producing.



Tooth form and chamfer in one setup

Specifications	EMA-500 3A	EMA-500 4A	EMA-650 3A	EMA-650 4A
Grinding Range (Diameter)	95 ~ 500mm	95 ~ 500mm	100 ~ 650mm	100 ~ 650mm
Chamfering Range	N/A	155 ~ 500mm	N/A	170 ~ 650mm
Number of Teeth	10 ~ 998	10 ~ 998	10 ~ 998	10 ~ 998
Sawblade Thickness	Up to 8mm	Up to 8mm	Up to 8mm	Up to 8mm
Cutting Angle	0° ~ 30°	0° ~ 30°	0° ~ 30°	0° ~ 30°
Grinding Speed	1 ~ 60 Teeth /min.	1 ~ 60 Teeth /min.	1 ~ 60 Teeth /min.	1 ~ 60 Teeth /min.
Grinding Wheels	200 x 32 x (Max 8mm)	200 x 32 x (Max 8mm)	200 x 32 x (Max 8mm)	200 x 32 x (Max 8mm)
Grinding Motor	4.0 kw	4.0 kw	4.0 kw	4.0 kw
Grinding Wheel Speed	2500 ~ 6000 rpm	2500 ~ 6000 rpm	2500 ~ 6000 rpm	2500 ~ 6000 rpm
X-axis Motor	AC Servo	AC Servo	AC Servo	AC Servo
Z-axis Motor	AC Servo	AC Servo	AC Servo	AC Servo
B-axis Motor	AC Servo	AC Servo	AC Servo	AC Servo
Y-axis Motor	N/A	AC Servo	N/A	AC Servo
Coolant Pump	1.6 kw	1.6 kw	1.6 kw	1.6 kw
Oil Mist Collector	0.55 kw	0.55 kw	0.55 kw	0.55 kw
Magnetic Filter	25 w	25 w	25 w	25 w
Gross Weight	1264 Kg	1342 Kg	1362 Kg	1425 Kg
Gross Dimensions	188 x 173 x 206cm	188 x 173 x 206cm	197 x 198 x 225cm	197 x 198 x 225cm



## SU-650 / 850 / 1200

### Friction Saw Blade Sharpening Machine

Superior innovation and design, patented vertical grinding direction and ergonomically placed adjustment points makes this machine very easy to operate.

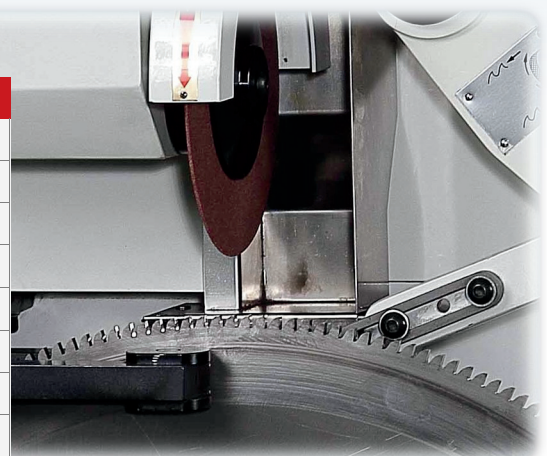
Patented saw blade thickness adjustment is accomplished by two synchronic movement mechanisms, adjustable at the same time. Therefore there is no need to manually adjust saw blade thickness. With our ridged clamping method vibration and noise are greatly reduced.

Industrial class tooth profile cam is designed with the highest accuracy. Carbide is used on various wear points such as the pushing pawl. All main parts utilize SKD 11 high-carbon / high-chromium and are heat treated and ground for accuracy and longevity.

All castings utilize nodular cast iron (FCD-45) and have been temper re-treated to ensure accuracy and enhanced wear resistance.



Specifications	SU-650	SU-850	SU-1200
Grinding Range Ø	250 ~ 650mm	350 ~ 850mm	450 ~ 1200mm
Teeth Pitch	25mm	25mm	25mm
Saw blade Thickness	12mm	12mm	12mm
Grinding Speed (teeth / min.)	10 ~ 100	10 ~ 100	10 ~ 100
Cutting Angle	-5° ~ +15°	-5° ~ +15°	-5° ~ +15°
Grinding Motors	0.75 kW	0.75 kW	0.75 kW
Transmission Motor	0.37 kW	0.37 kW	0.37 kW
Grinding Wheel Diameter	180mm	180mm	180mm
Grinding Wheel Speed	4500-rpm	4500-rpm	4500-rpm
Dimensions	85 x 113 x 165 cm	85 x 113 x 176 cm	85 x 120 x 215 cm
Gross Weight	335-kg	312-kg	395-kg

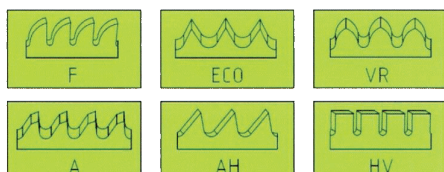


## AS-2500 / 2200 / 1800 / 1200

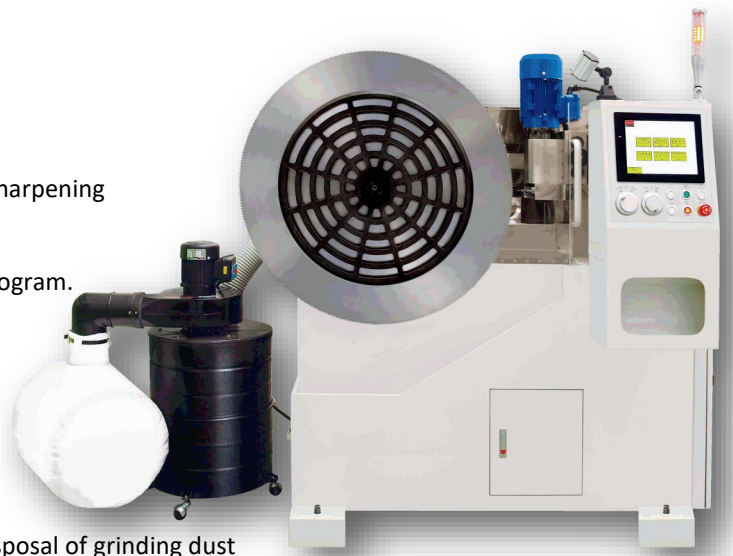
### CNC Friction Saw Blade Sharpening Machines

Heavy duty construction with cast iron supports. Capable of sharpening blades up to 98" diameter and 5/8" thickness.

Easy to operate LCD touch screen with our proprietary HMI program. Double handwheel adjustments for B and Z axis adjustments



Integrated exhaust system for clean disposal of grinding dust



[www.eyanamerica.com](http://www.eyanamerica.com)



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