



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.



High / Low
Teeth Indicator



High / Low Teeth
Grinding Adjustment



Wheel Tilt Adjustment
For Chamfers



Blade thickness
Adjustment and angle

The grinding wheel is easily adjusted for chamfer grinding.

All adjustments are easy to perform and ergonomically placed.

S-450C
Coolant



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



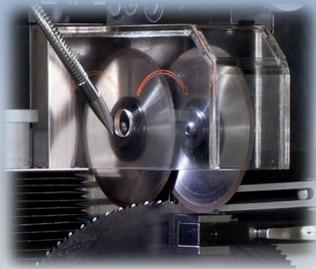
Large 30mm lubricated brass
bearing for smooth sawblade
feeding..

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.

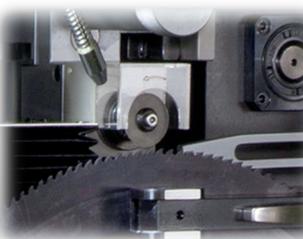
A tooth counter counts down the teeth and shuts down the process when blade is finished.

BW-650 (Chamfer)

Grinding Range	150 ~ 650mm	Grinding Wheel Dia.	125mm
Teeth Pitch	Up to 25mm	Grinding Wheel Speed	6600 rpm
Blade Thickness	8mm	Grinding Wheel Motor	300 w
Grinding Speed	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)

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



CNC Saw Blade



EMA 3

CNC Circular Saw blade Sharpening Machines with **three axes** service number of teeth, sharpening amounts, cutting angles and back clearance repeatability at any

EMA 4

CNC Circular Saw blade Sharpening Machines with **four axes** service number of teeth, sharpening amounts, cutting angles, back clearance additional setup. Choose your tooth form, enter your variables a cycle is

Machine Base

High rigidity with heavy steel weldment along with heavy cast support Precision linear guide ways and servos

Work area

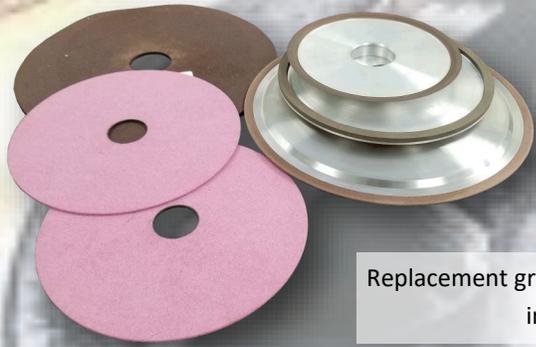
Special design for safety and noise reduction. All stainless steel and filtration system. A brilliant work lan

Grinding Mo

Powerful 5-hp grinding motor driving a high precision dynamically



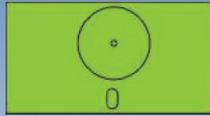
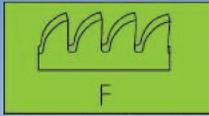
Satisfied customers world wide



Replacement grinding wheels available from our stock in Oxford Massachusetts



Grinding Machines



A series

Control. Fully automatic operations for saw blade outer diameter, bevel angles. This is a high speed and highly reliable machine with exact repeatability and low operator skill level.

A series

Control. Fully automatic operations for saw blade outer diameter, bevel angles and chamfer. Chamfering is accomplished without any operator intervention and select chamfer type. The LED stack light will indicate when the operation is complete.

Build and Support

Build quality, fabricated to the highest standards for longevity and accuracy. Components are used in both grinding wheel axis.

Enclosure

The smooth interior will resist corrosion and flows dirty coolant to the bottom. The bright aluminum finish illuminates the complete work area.

Motor & Spindle

Highly 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



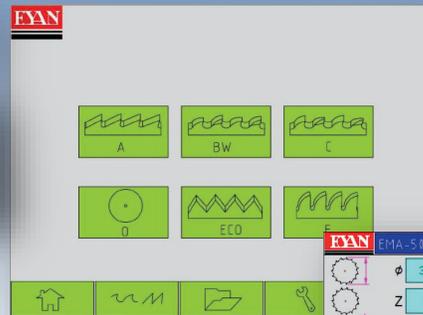
Precision linear ways and ball screw



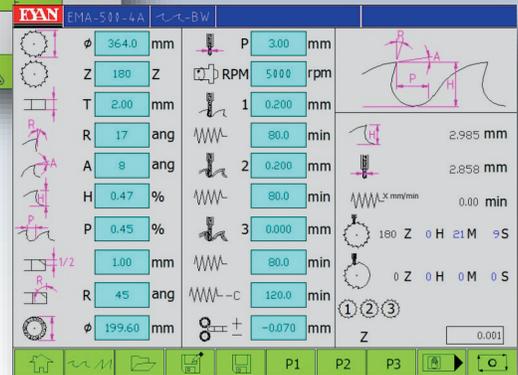
Replacement spare parts, field service and application assistance for all models

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.			
Grinding Wheels	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			
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.

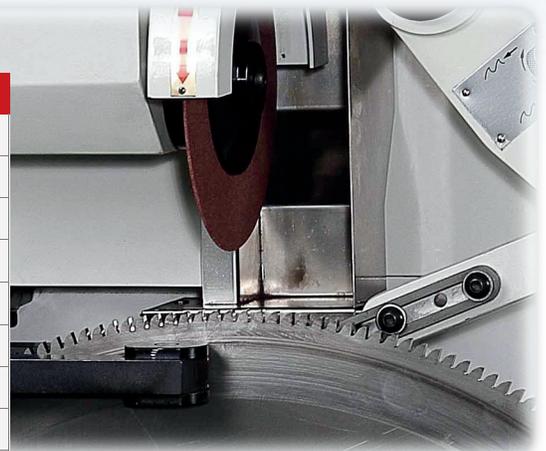
Patented saw blade thickness adjustment is accomplished by two synchronic movement mechanisms, adjustable at the same time. Therefore there is no need to manually adjust saw blade thickness. With our ridged clamping method vibration and noise are greatly reduced.

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 \varnothing	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

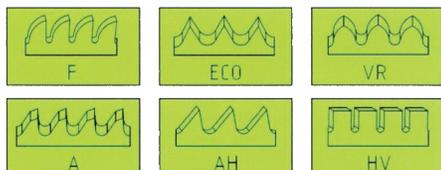


AS-2500 / 2200 / 1800 / 1200

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



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