



WILLIAMS & WHITE
EQUIPMENT



Product // Catalog

Accuracy / Innovation / Results



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About Us

+ As a leading industrial technology company, Williams and White harnesses its 60 years of experience as a third generation family business to develop optimized solutions to the tool production and saw mill industries.

With a niche focus in cutting tool production and saw filing activities, Williams and White is continuously developing specific technology for our customer's ever changing needs. We bring industrial automation to the most demanding requirements of filing rooms, tool rooms and grinding facilities.



CIRCULAR SAW SOLUTIONS SHARPENING

RoboSharp



SHARPEN ANY SAW WITH THE MOST VERSATILE MACHINE IN THE WORLD!

The RoboSharp-AX10L2 is a highly advanced, multi-function circular saw sharpening center. With top & face, dual side and plunge grinding capabilities, the RoboSharp is the most functional and flexible machine in the industry. The dual-bay robotic loader and patented automated tool changer system allow this sharpening center to run completely lights out.

Highlights

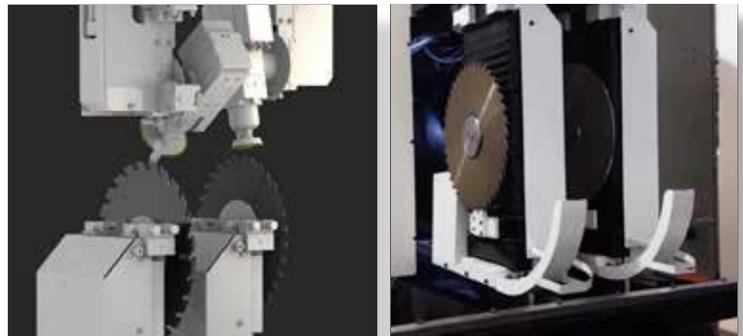
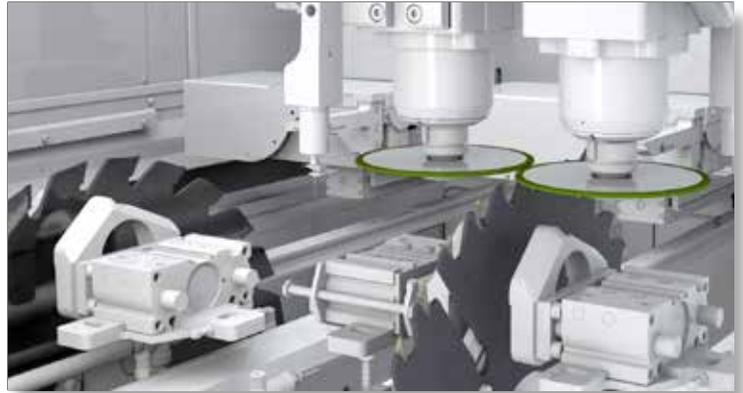
- ✓ **Top, face & side grinding in one grind center** → reduces floor space requirements and maximizes sharpening efficiency
- ✓ **Dual blade capacity** → two independent 5-axis grinding heads allow two blades to be top/face ground simultaneously, addressing a common bottleneck in service/repair environments
- ✓ **Robotic loading** → enables complete automation
- ✓ **Automated tool changing** → for full lights-out manufacturing
- ✓ **19" touch screen and user friendly software** → for intuitive operation

Why is dual head an advantage?

The RoboSharp dual head grinder consists of 2 top and face grinders or 1 dual side grinder within the machine.

- + A saw sharpening operation's average work load is heavily skewed to top & face grinding. The RoboSharp's independent spindle operation and two saw blade capacity results in double the grinding production in topping and facing mode.
- + The machine re-configures itself to dual side grinding mode when working on a re-tipped tooth or saw.
- + Your side grinder is never sitting idle!

**SAW SHOP
IN A BOX**



Key Features

Front loading carts

- + This enables the machine to be positioned against a wall. Competitive grinding centers have rear loading carts, requiring space behind the machine which results in a larger and inefficient footprint.
- + Allows for efficient operation by enabling the operator to load and view the carts from the operator station.



Tool Changer

- + The tool changer enables saws of different materials and tips to be processed in a single cart. Carbide, stellite and cermet saws can all be stacked on a single cart. The tool changer will automatically select the correct grinding wheel for the specified material.

True lights out operation

- + The RoboSharp can detect broken or worn grinding wheels and replace them from the tool bay, resulting in true lights out operation.



CIRCULAR SAW SOLUTIONS SHARPENING

Saw capacity

- + The Robosharp has a grinding capacity of 8" (200mm) - 34" (865mm) diameter.



Renishaw probe

- + Maps teeth with extreme precision.



Dual gripper

- + The RoboSharp robotic loader has a dual gripper, which enables two saw blades to be handled at once.



High capacity tool cart

- + Each cart holds more than twice the number of saws as the competition.
- + Competitors tool cart capacity: 12.7" (322mm).
- + Our tool car capacity: 28" (711mm).



Remote monitoring

- + Enables off-site updates and alerts sent to email and mobile phone.



User friendly control panel

- + 19" touch screen.
- + Simple design and seamless navigation.



X2 HIGHER SAW LOAD CAPACITY THAN OUR COMPETITORS!

Additional features

- + Two 7.5Hp, 24000 RPM spindles
- + Large sub-plate for clamp mount
- + Auto gullet detect
- + Air cooled spindle

Options

Fire suppression system

- + Integrated fire suppression for oil grinding.



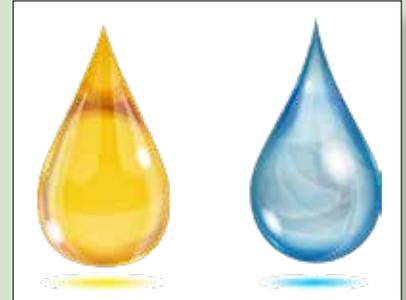
Mist extraction

- + Stand-alone mist extraction/ filtration for improved air quality and safe grinding environment.



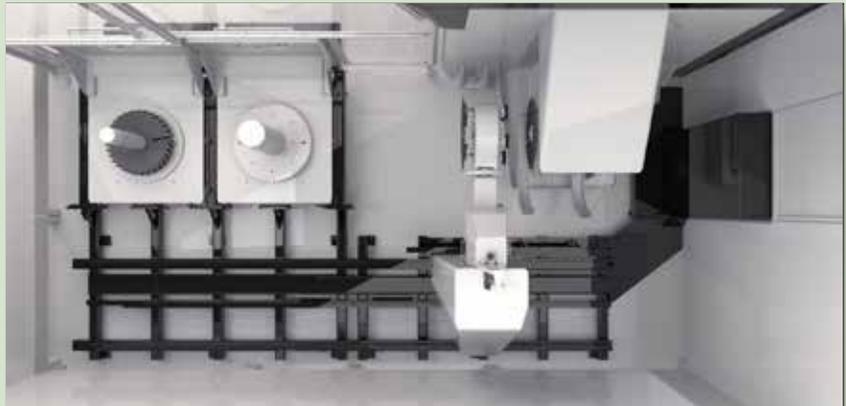
Water or oil based coolant

- + Flexibility to suit any shop environment.



Auto saw cleaning

- + Reduces oil contamination throughout your facility.



Specifications

Circle saw size	8" to 34"	200mm to 865mm
Plate size	.04" to .750" Plates	1mm to 19mm Plates
Saw kerf	.04" to .850"	1mm to 21mm
Radial angles	0° to 5°	0° to 5°
Hook angles	(-) 10° to (+) 35°	(-) 10° to (+) 35°
Tangential angle	0° to 5°	0° to 5°
Tooth spacing	.5" to 3"	13mm to 76mm
Shipping weight	8000lb	3600kg
Dimensions	L240" x H122" x W180"	L6100mm x H3100mm W4500mm
Voltage	480VAC, 60Hz 3 ph	400VAC, 50Hz, 3ph
Spindle motor	7.5Hp	1.5KW

Custom specifications and engineering available on request

Williams and White reserves the right to alter or amend specifications without prior notice



CNC Top & Face Grinder TFX



The Accusharp TFX Is a fully enclosed automatic top and face grinding machine for circular saw blades up to 36" (Optional 42") diameter. The automatic CNC operation allows the operator to continue his/her work as the machine sharpens the saws. Multi pass grinding and program saving make the TFX the ideal machine for any production or repair facility.

Highlights

- ✓ **Automatic operation with tooth counter** → For flexible and efficient operation
- ✓ **High precision bearings and linear slides** → For extreme accuracy
- ✓ **CNC multi pass grinding** → Increased accuracy and grind finish
- ✓ **CNC feed finger system** → Variable tooth pitch
- ✓ **CNC servo motion system** → Consistent and reliable positioning

Key Features

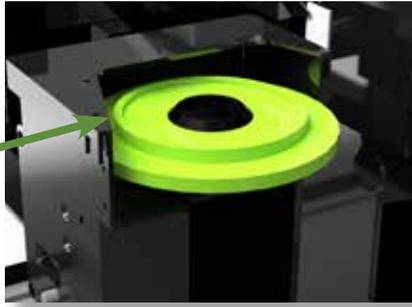
Variable pitch

- + CNC axis for variable pitch saws.



Back to back facing and topping grinding wheels

- + Switch from facing to topping without doing a wheel change saving you time in your operations.
- + Wheel lift-off



CNC controlled

- + Full programmability of complex tooth shapes.



Heavy duty construction

- + Williams and White machines are known for extreme durability and reliability.

Grinding feed adjustment

- + Allows you to adjust your feed rate regulating your grinding speed.
- + In and out feeds are independently adjustable.

Tooth Styles

- ✓ Straight facing
- ✓ Straight topping
- ✓ Alternate facing
- ✓ Alternate topping
- ✓ Triple chip (single pass)
- ✓ High/low topping

Other Features

- ✓ Adjustable saw clamps
- ✓ Centralized lubrication (manual)
- ✓ 1 HP grinding motor
- ✓ CE/CSA/UL Standard

Standard Specifications

Saw Diameter	3.5" – 36" (Optional 42")	80 mm – 920 mm (Optional 1,060 mm)
Clearance Angle	-10° - +40°	-10° - +40°
Plate Thickness	Up to .400"	Up to 10 mm
Back bevel grinding at tooth top	To 45°	To 45°
Saw Kerf	.040" - .400"	1 mm - 10 mm
Bevel grinding at tooth face	To 45°	To 45°
Grinding Path	To .250"	To 6 mm
Power Requirements	380V 3ph	380V 3ph
Face Grinding Wheel	6.3" dia. x 1-1/4" bore	160 mm dia x 32 mm bore
Top Grinding Wheel	4" dia. x 1-1/4" bore	101 mm dia x 32 mm bore
Footprint	80" x 44" x 80H"	203 cm x 112 cm x 203H cm
Coolant Capacity	21 Gal	80 lt
Shipping Weight	2,500 lbs	1,150 kg



CIRCULAR SAW SOLUTIONS SHARPENING

Top & Face Grinder TFH-CS2



The Accusharp TFH-CS2 is a fully enclosed automatic top and face grinding machine for circular saw blades up to 42" (1060mm) diameter

Highlights

- ✓ **Automatic operation with tooth counter** → for flexible and efficient operation
- ✓ **High precision bearings and linear slides** → for extreme accuracy
- ✓ **Hydraulic lift off on in stroke or out stroke** → machine only grinds on the desired stroke
- ✓ **ISI feed finger system** → automatically detects tooth pitch
- ✓ **Hydraulically controlled grinding system** → for environments requiring a robust and reliable solution

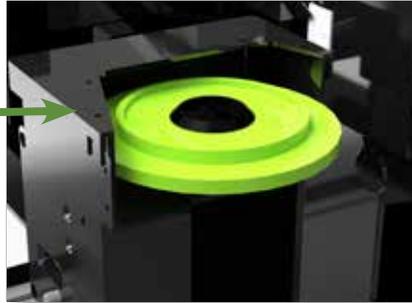
Variable speed control

- + Adjustable grinding speed and adjustable feed finger speed.



Back to back facing and topping grinding wheels

- + Switch from facing to topping without doing a wheel change saving you time in your operations.



Heavy duty construction

- + Williams and White machines are known for extreme durability and reliability.

Hydraulically controlled

- + Hydraulic control is ideal for the rugged environment of a saw shop or saw mill.

Grinding feed adjustment

- + Allows you to adjust your feed rate regulating your grinding speed.
- + In and out feeds are independently adjustable.

Tooth Styles

- Straight facing
- Straight topping
- Alternate facing
- Alternate topping
- Triple Chip
- V-Top
- Triple chip (2 passes)
- High/low topping

Specifications

Circle saw size	8" to 42"	203mm to 1066mm
Plate size	.04" to .25" Plates	1mm to 6.35mm Plates
Saw kerf	.04" to .3"	1mm to 7.6mm
Hook angles	(-) 10° to (+) 45°	(-) 10° to (+) 45°
Top angle	0-45°	0-45°
Tooth pitch	0.25" to 4.25"	6.35mm to 107.9mm
Weight	2,976lb	1350kg
Voltage	480v ac, 60Hz 3 ph	400v ac, 50Hz, 3ph
Power	8kVA	8kVA
Spindle motor	1Hp	.75kw
Bevel grinding at tooth face	To 45°	To 45°
Bevel grinding at tooth top	To 45°	To 45°
Tooth pitch	0.25" to 4.25"	6.35mm to 108mm
Grinding path	Up to 0.24"	Up to 7mm
Dimensions	W48" x L66" x H72"	W1220mm x L1675mm x H1830mm

Williams and White reserves the right to alter or amend specifications without prior notice



CNC Dual Side Grinder DSX



The Accusharp DSX Is a fully enclosed automatic dual side grinding machine for circular saw blades up to 36" (Optional 42") diameter. The automatic CNC operation allows the operator to continue his/her work as the machine sharpens the saws. Multi pass grinding and program saving make the DSX the ideal machine for any production or repair facility.

Highlights

- ✓ **Automatic operation with tooth counter** → For flexible and efficient operation
- ✓ **High precision bearings and linear slides** → For extreme accuracy
- ✓ **CNC multi pass grinding** → Increased accuracy and grind finish
- ✓ **CNC feed finger system** → Variable tooth pitch
- ✓ **CNC servo motion system** → Consistent and reliable positioning

Key Features

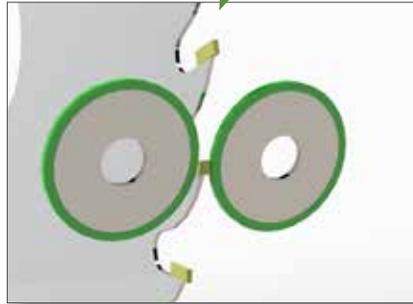
Variable pitch

- + CNC axis for variable pitch saws.



Peripheral grinding wheels

- + Wheel lift-off



Heavy duty construction

- + Williams and White machines are known for extreme durability and reliability.

CNC controlled

- + Full programmability of complex tooth shapes.



Grinding feed adjustment

- + Allows you to adjust your feed rate regulating your grinding speed.
- + In and out feeds are independently adjustable.

Other Features

- ✓ Adjustable saw clamps
- ✓ Centralized lubrication (manual)
- ✓ 1 HP grinding motor
- ✓ CE/CSA/UL Standard

Standard Specifications

Saw Diameter	3.5" – 36" (Optional 42")	80 mm – 920 mm (Optional 1,060 mm)
Clearance Angle	-10° - +40°	-10° - +40°
Plate Thickness	Up to .400"	Up to 10 mm
Saw Kerf	.040" - .400"	1 mm - 10 mm
Grinding Path	To .250"	To 6 mm
Power Requirements	380V 3ph	380V 3ph
Side Grinding Wheels	4" dia. x 1-1/4" bore	101 mm dia x 32 mm bore
Footprint	80" x 60" x 80H"	203 cm x 152 cm x 203H cm
Coolant Capacity	21 Gal	80 lt
Shipping Weight	2,500 lbs	1,150 kg



CIRCULAR SAW SOLUTIONS SHARPENING

Dual Side Grinder // DSG Series II



The Williams and White Dual Side Grinder is easy to use and will increase productivity in any sharpening application. The automatic operation allows the operator to continue his/her work as the machine sharpens the saws.

Highlights

- ✓ **Automatic operation with tooth counter** → for flexible and efficient operation
- ✓ **High precision bearings and linear slides** → for extreme accuracy
- ✓ **2-axis digital readout system** → to dial in depth of cut on each head
- ✓ **ISI feed finger system** → automatically detects tooth pitch and retracts from grinding area
- ✓ **Hydraulically controlled grinding system** → for environments requiring a robust and reliable solution

Digital readout system

- + Allows the operator to monitor the grinding procedure and adjust the process with accuracy to within 0.0005"(.0127mm).
- + Simple operation allows for minimal downtime for training and easy saw setup.



Hydraulically controlled

- + Hydraulic control is ideal for the rugged environment of a saw shop or saw mill.

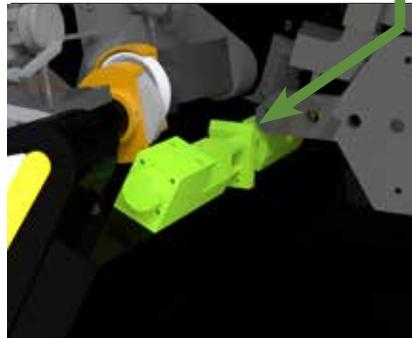


Heavy duty construction

- + Williams and White machines are known for extreme durability and reliability.

Adjustable saw clamps

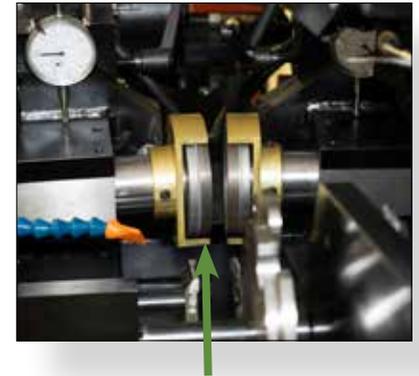
- + Solid 2" (50mm) thick saw clamp.
- + The saw is held using heavy duty clamps insuring vibration free grinding.



Options

Cup Wheel Upgrade

- + Side grinding with a cup wheel is the only way to maintain a constant and true grind angle. The alternative method uses the peripheral of the grinding wheel, resulting in a concave tooth profile.



Grinding feed adjustment

- + Allows you to adjust your feed rate regulating your grinding speed.
- + In and out feeds are independently adjustable.

Specifications

Circle saw size	8" to 42"	200mm to 1066mm
Plate size	.04" to .750" Plates	1mm to 19mm plates
Saw kerf	.04" to .850"	1mm to 21mm
Radial angles	0° to 5°	0° to 5°
Hook angles	(-) 10° to (+) 45°	(-) 10° to (+) 45°
Tangential angle	0° to 5°	0° to 5°
Tooth spacing	.5" to 3"	13mm to 76mm
Weight	3,306 lb	1,500kg
Voltage	480VAC, 60Hz 3 ph	400VAC, 50Hz, 3ph
Power	8kVA	8kVA
Spindle motor	1Hp	.75kW
Dimensions	W52" x L66" x H72"	W1320mm x L1675mm x H1830mm

Williams and White reserves the right to alter or amend specifications without prior notice



CIRCULAR SAW SOLUTIONS TIPPING

Highlights:

- + Modern design and unique way of working to your advantage.
- + Imaging of different saw tip shapes and sizes.
- + No more conventional brazing - special feature of the heating inductor.
- + Unique 90° flux dispensing system for cermet saw tips.
- + Linear controlled loading and unloading system.
- + Integrated water cooling - water tank drawer for easy cleaning.
- + Program controlled for off-center brazing of the saw tips.
- + Intelligent fault indication with cause, place, date, time and duration of the disturbance.
- + Database stores up to 75 parameters of different saw blades.

Ultimate Brazer H65



HANA
Hana Commercial Co. Ltd.

Highlights:

- + 5 Axis servo control.
- + Smart camera for capturing different size and shape of saw tips.
- + Precise dispensing flux in line or in small dots.
- + Engineered for quick change over to different materials by "one touch setting" in Software and mechanical settings.
- + Eco drive mode turns off the electricity and the compressed air for saving electricity.
- + Intelligent error display showing the reason, position, time and recovered time.
- + Remote maintenance via network interface.
- + Fixed tip centering system of the saw body and the saw tip.
- + Automatic annealing cycle with temperature control and choice of disabling annealing process.

Ultimate Brazer H55



HANA
Hana Commercial Co. Ltd.

CIRCULAR SAW SOLUTIONS

TIPPING

Highlights:

Ultimate Brazer // H50

The most cost effective brazer in the world!

+ Engineered for quick change over to different materials by "one touch setting" in software and mechanical settings.

+ Engineered for faster brazing time.

+ New software with user friendly touch screen operating controls with icon based command sequences.

+ Precise dispensing of flux in line or in small dots.



HANA
Hana Commercial Co. Ltd.

+ Automatic annealing cycle with temperature control and choice of disabling annealing process.

+ Dual laser sensor for capturing different size and shape of saw tips.

+ Eco drive mode turns off power for reducing electricity usage

+ 3 axis servo control.

+ Intelligent error display showing the reason, position, time and recovered time.

Specifications

Saw blade diameter	3.9"-31"	100mm -800mm
Tip length	0.15"-0.47"	4mm-12mm
Tip width	0.06"-0.3"	1.6mm-8mm
Hook angle	-10 - +30	-10 - +30
Brazing time	5.5 -7 sec/Tip	5.5 -7 sec/Tip
HF generator	1.34hp/7.5hp	3.5kW/5.6kW
Air pressure	70psi	5kg/cm ²
Electricity	220V - 1ph 50/60hz, 7kW	220V - 1ph 50/60hz, 7kW
Dimension	L64" x W46" x H66"	L1650 x W1185 xH1680mm
Weight	1,984lb	900Kg

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CIRCULAR SAW SOLUTIONS TIPPING

Highlights

Ultimate Brazer // HM

- + Adjustable temperature, holding time and cooling time with automatic annealing cycle
- + Ideal for saw repair or special saw blade brazing
- + Easy set-up and operation



- + Precision manual brazing machine
- + Single tip is brazed automatically with the push of a button
- + Fully programmable induction heater

HANA
Hana Commercial Co. Ltd.

Specifications

Saw blade diameter	4.7"-31"	120mm -800mm
Tip length	0.15"-0.47"	4mm-12mm
Tip width	0.06"-0.43"	1.6mm-11mm
Hook angle	-10 - +30	-10 - +30
Brazing time	5.5 -7 sec/Tip	5.5 -7 sec/Tip
HF generator	1.34hp/7.5hp	3.5kW/5.6kW
Air pressure	70psi	5kg/cm ²
Electricity	220V - 1ph 50/60hz, 7kW	220V - 1ph 50/60hz, 7kW
Dimension	L64" x W46" x H63"	L1650 x W1185 xH1600mm
Weight	1,102lb	500Kg

Williams and White reserves the right to alter or amend specifications without prior notice

Highlights

Brazing Strength Tester T-50/Pro

+ Digital Indicator: External display of min/max setting value

+ Load cell: Alloy tool steel construction for high accuracy

+ Record printer



+ Easy operation

+ Safety cover included

+ Load cell for testing

+ Non-destructive testing with T50 Pro

HANA

Hana Commercial Co. Ltd.

Specifications

Saw blade diameter	3.9"-19.7"	100mm -500mm
Hook angle	-10°- +30	-10°- +30
Load cell capacity	2200lb	max 1 ton
Machine dimensions	L:37" X W:24 X H: 55"	L:940mm X W:600mm X H:1400mm
Electricity	220V, 1Ph, 50/60Hz	220V, 1Ph, 50/60Hz
Weight	440"	200kg

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CIRCULAR SAW SOLUTIONS TENSIONING & LEVELING

CNC Automated Tension Roller 36X2



The Williams & White 36X2 is a CNC pattern tension roller designed for tension rolling circular saw blades. This new technology implements automation and added safety features to the highly renowned Williams & White Dish-O-Matic Stretcher Roll. The 36X2 allows the operator to program saw tension combinations and uses servo and hydraulic controls to deliver the most accurate and repeatable results in the industry.

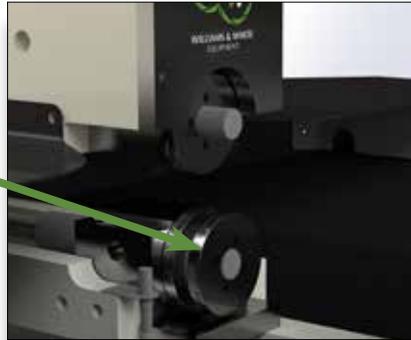
Highlights

- ✓ **Fully programmable touch screen** → 10" HMI on separate operator stations
- ✓ **Dynamic tension roll pressure** → accurate to 10 PSI
- ✓ **Store up to 500 tension combinations** → repeatable programs for every saw
- ✓ **Light curtain guarding in rolling area** → for increased safety
- ✓ **Servo-driven saw center** → for precise rolls every time

PERFECT FOR MEDIUM-HIGH PRODUCTION FACILITIES!

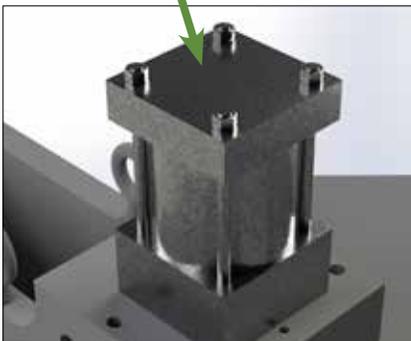
CNC roll pattern Saw tensioning

- + The 36X2 can be programmed to roll defined tension positions on the saw at any diameter and pressure. This feature allows the user to program all tension requirements beforehand, resulting in a highly efficient process with reduced repetitive labor requirements.



Smart roll pressure system

- + The 36X2 has real-time pressure sensing compensation software.
- + This means it can automatically compensate for inconsistent mechanical properties in the saw plate, resulting in highly accurate, highly repeatable tension bands.



Teach function

- + Users can program the machine using a convenient teach function. The teach function enables the user to jog the Machine to specific locations, mimicking the traditional process to develop the CNC program.
- + Reduce tensioning time by up to 50%

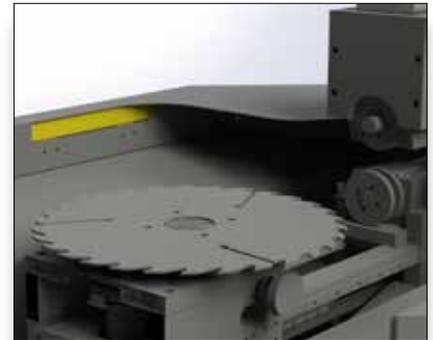
Integrated saw lift to avoid any scratches

Options

- + **Strobe sensor**
The 36X2 strobe sensor automatically detects and avoids strobes.

Safety & ergonomics

- + The 36X2 reduces repetitive motion strains and the injuries by eliminating manual tensioning.



Loader ready

The 36X2 can be used alongside the Williams and White Robotic Loader, transforming this machine into a fully automated tensioning station



Specifications

Circle saw capacity	Up to 36"	914mm
Plate thickness	Up to 1/2" thick	Up to 12.7mm thick
Dimensions	H:62" L: 73" W:46"	H:1570mm x L:1850mm W:1170mm
Standard roll radius	6"	150mm
Shipping weight	1200lb	540kg
Voltage	480 Vac, 3 Ph, 60Hz,	400 Vac, 3 Ph, 50Hz,
Power	5kVA	5kVA

Williams and White reserves the right to alter or amend specifications without prior notice



CIRCULAR SAW SOLUTIONS TENSIONING & LEVELING

Dish-O-Matic Round Saw Stretcher Roll



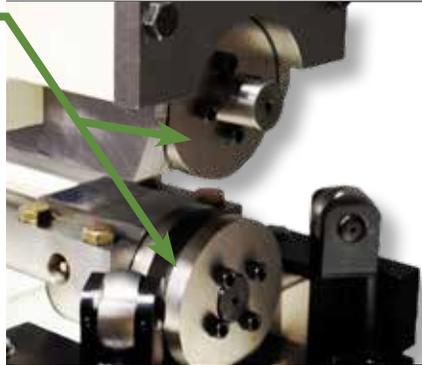
The Williams & White Dish-O-Matic Stretcher Roll is essential in all saw production and maintenance facilities. The patented Dish-O-Matic system allows operator to tension and level saws in the most efficient and accurate manner. This machine is the most durable in the industry and is installed in thousands of filing rooms and saw shops worldwide.

Highlights

- ✓ **Heavy-duty C-frame construction** → robust design is built to last
- ✓ **Smooth moving easy slide system** → high-precision roll placement
- ✓ **Patented Dish-O-Matic system** → saw tensioning & leveling on one machine
- ✓ **Manual or hydraulic roll pressure** → reduces heavy saw hammering
- ✓ **Foot pedal saw rotation** → for simple operation

Dish-O-Matic system

- + Patented Williams & White Dish-O-Matic Stretcher Roll allows the operator to tension and level the blade in one setup.
- + The system requires approximately 80% less hammering when compared to the leading competitors' manual circular saw stretchers.



NEW #36 de-kinker rolls

- + Simple bolt on upgrade for your stretcher roll (Armstrong or Williams and White).
- + Heavy duty
- + Hardened rolls
- + Dial indicator adjustments

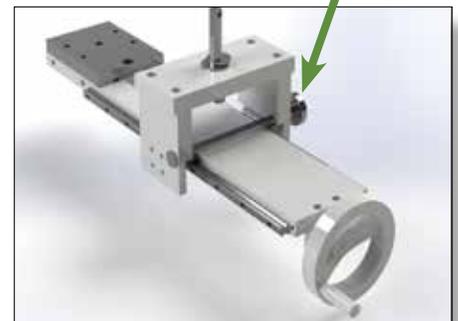


Options

- + Digital pressure gauge
- + Hydraulic roll pressure
- + Strobe sensor
- + Variable speed rolls

NEW Easy-slide (#36 stretcher)

- + Conversions available for any stretcher roll.
- + Can be added to any Williams & White #36 Stretcher.
- + The system allows the saw to move in and out of the rolls smoothly resulting in accurate and efficient saw positioning.
- + The easy-slide is included on all new #36 models and can be retrofitted to any existing Williams & White #36 Stretcher roll machine.
- + Heavy duty
- + Linear rail guides
- + Linear precision brake



Models

#36 Stretcher	Up to 36" diameter
#72 Stretcher	Up to 72" diameter
#108 Stretcher	Up to 108" diameter
#120 Stretcher	Up to 120" diameter

Specifications

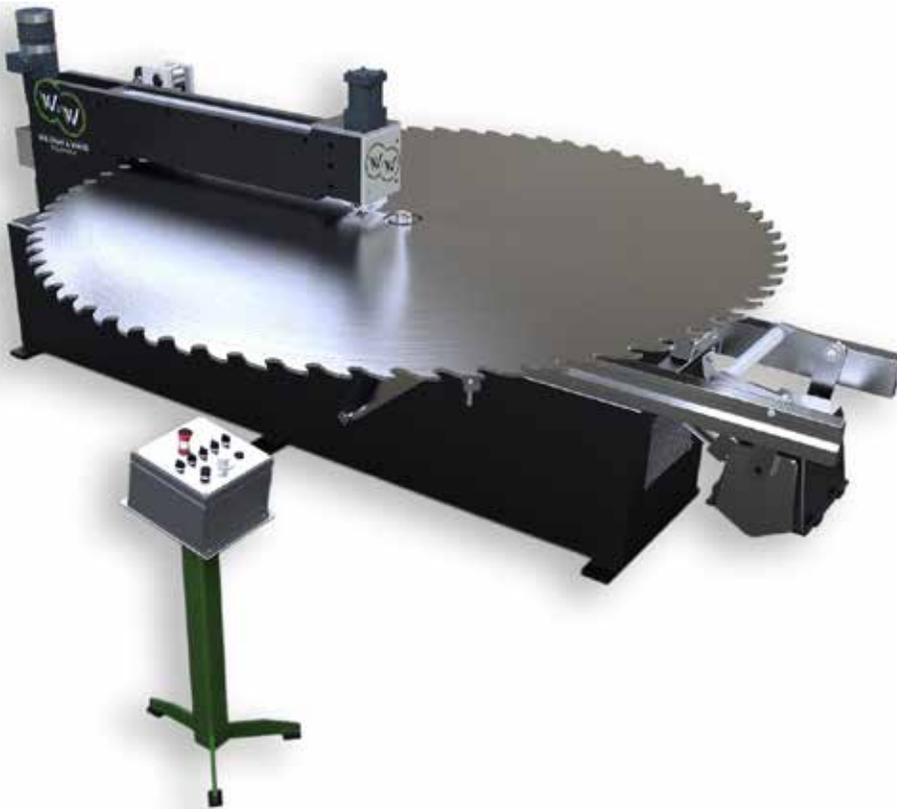
Circle saw capacity	8"-120" (dependent on model)	203mm-3,048mm (dependent on model)
Plate size	0.25" -0.4"	6.35mm-10mm
Standard roll radius	6"	150mm
Weight	850lb-1500lb	385kg -680kg
Dimensions	H: 52" W: 20" L:56"	H:20mm W:51mm L:1412mm
Voltage	480 Vac, 3 Ph, 60Hz	400 Vac, 3 Ph, 50Hz
Power	3kVA	3kVA

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CIRCULAR SAW SOLUTIONS TENSIONING & LEVELING

Round Saw Center



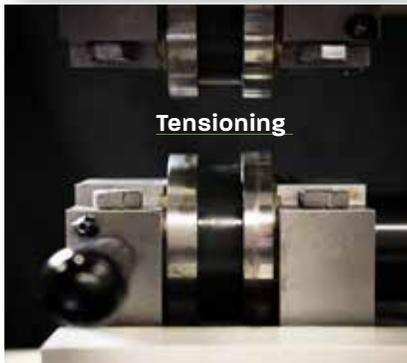
The Williams & White Round Saw Center is the ultimate Stretcher roll, designed to load and repair large diameter saws in the safest way possible. Hydraulic loading allows for efficient saw handling while ensuring safety by eliminating heavy lifting and dangerous maneuvers

Highlights

- ✓ **Hydraulic saw loading system** → load large diameter saws with ease
- ✓ **Heavy duty all steel construction** → robust design is built to last
- ✓ **Patented Dish-O-Matic system reduces need for heavy hammering** → tension & level saw on one machine
- ✓ **Floating anvil for hammering (60Rc)** → tension & hammer on the same machine
- ✓ **Hydraulic roll pressure** → reduces heavy saw hammering

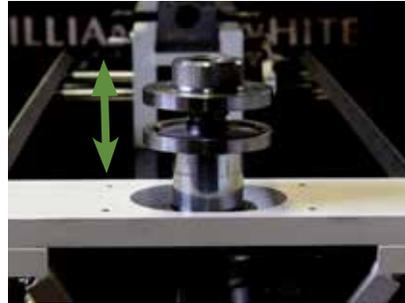
Dish-O-Matic roll system

- + For precise tensioning and leveling on one machine. The DOM II roll system allows the filer to tension and level the saw with one machine.
- + Off-set roll diameter for unobstructed tensioning.



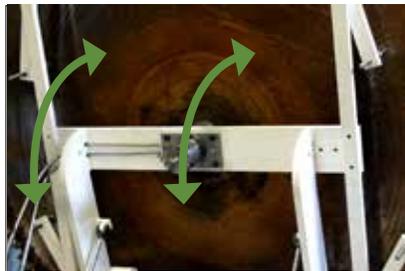
Hydraulic spindle lift

- + The hydraulic spindle lift (option) shuttles the spindle up and down to lower it from the saw eye. This enables filers to slide the saw further back to make repairs in close proximity to the saw eye.



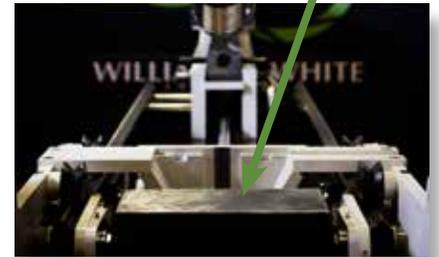
Vertical loading system with hydraulic lift

- + For improved safety and easy loading of large diameter saws.



Floating saw anvil

- + The Williams & White Round Saw Center is the only large saw stretching machine with a floating anvil. This enables filers to hammer the saw without transferring to a benching station.



Options

Variable speed rolls

Customize roll speed for your operation.

Hydraulic tooth setter

Integrated into the machine to set kerf automatically

Heavy duty (HD) models are available for extra thick saws and heavy production

Models

#72 RSC

(manual, semi hydraulic, fully hydraulic options) Up to 72" diameter saws

#108 RSC

(manual, semi hydraulic, fully hydraulic options) Up to 108" diameter saws

#120 RSC

(completely hydraulic) Up to 120" diameter saws

Specifications

Circle saw capacity	Up to 120" (dependent on model)	914mm (dependent on model)
Plate thickness	Up to 1/2" thick (standard model)	Up to 12.7mm thick (standard model)
Dimensions	H:59" L: 173" W:108"	H:1498x L:4394mm W:2743mm
Standard roll radius	6"	150mm
Shipping weight	2,600lb-5,500lb	1,496kg-2,500kg
Voltage	480 Vac, 3 Ph, 60Hz,	400 Vac, 3 Ph, 50Hz,
Power	4kVA	4kVA

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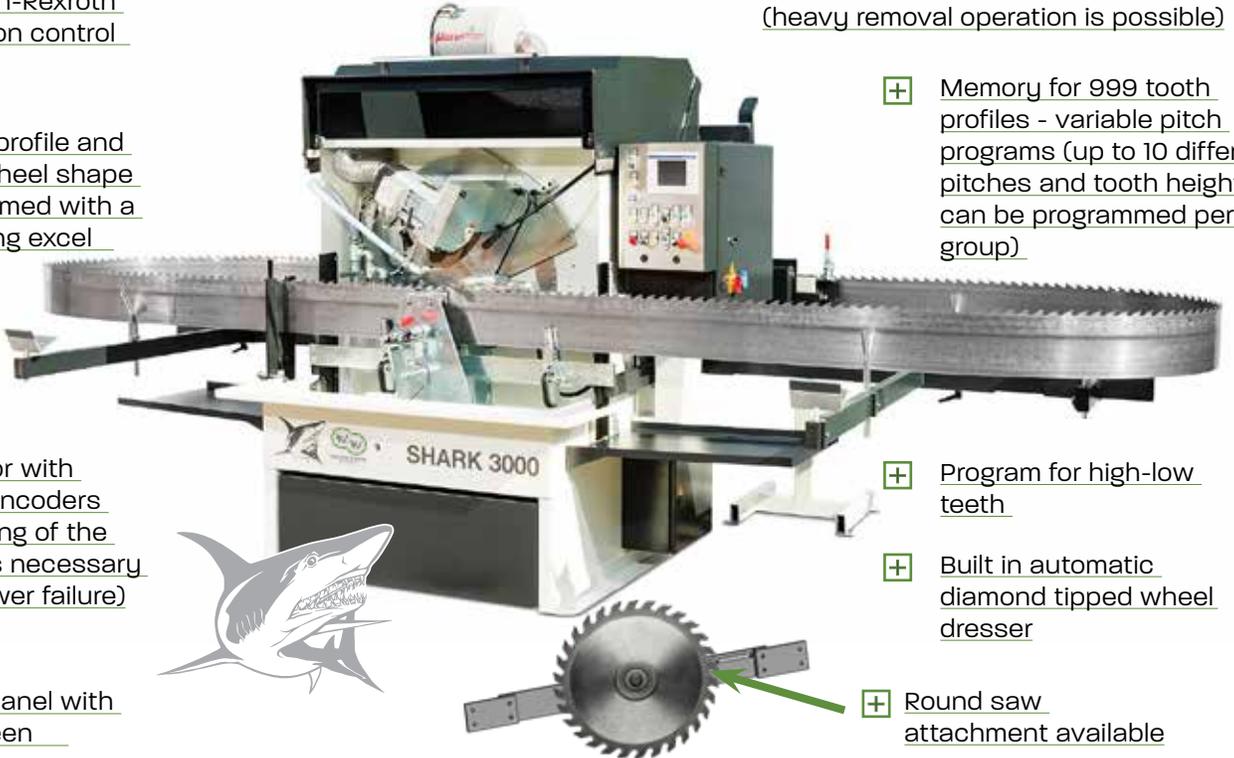


BAND SAW SOLUTIONS SHARPENING

Shark 3000

CNC Wet Profile Grinder

- + CNC Bosch-Rexroth Indra motion control
- + Grinding wheel is direct driven, eliminates vibrations and deep pass (heavy removal operation is possible)
- + The tooth profile and grinding wheel shape is programmed with a laptop using excel
- + Memory for 999 tooth profiles - variable pitch programs (up to 10 different pitches and tooth heights can be programmed per group)
- + Servomotor with absolute encoders (no resetting of the machine is necessary after a power failure)
- + Program for high-low teeth
- + Built in automatic diamond tipped wheel dresser
- + Operator panel with touch screen
- + Round saw attachment available



Specifications

Saw blade diameter	1.2"-14.1"	30mm-360mm
Blade Thickness	0.02"-0.19"	0.6mm-5mm
Variable pitch	0.47"- 2.36"	12mm-60mm
Adjustable tooth height	0.16"-0.98"	4mm-25mm
Hook angle	0° to 38°	0° to 38°
Working speed adjustable	0-20 teeth/min	0-20 Teeth/min
Grinding wheel diameter	13.8"- 11"	350mm-280mm
Grinding wheel thickness	0.3"-0.6"	8mm-15mm
Grinding wheel motor	4kw	4kw
Pump cooling system	160l/min	160l/min
Machine dimensions	L:173" X W:78" X H:64"	L:4384mm X W:1911mm X H:1615mm
Electricity	10kVA, 480VAC	10kVA, 400VAC

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BAND SAW SOLUTIONS

SHARPENING

Shark 600

Wet Profile Grinder

- + Central electrical blade height adjustment
- + Saw blade clamping system, clamps the blade automatically tight when grinding
- + Grinding wheel is direct driven, eliminates vibrations and deep pass (heavy removal operation is possible)



- + Grinding heads are guided by pre loaded linear bearing technology to assure optimum accuracy
- + Cam driven control
- + Saw blade width capacity: 20-330mm
- + Round saw attachment available

Specifications

Band saw width	1.2"-13"	30mm-330mm
Blade thickness	0.02"-0.08"	0.6mm-2mm
Pitch adjustable	0.4"-2.36"	10mm-60mm
Tooth height min/max	0.15"- 1"	4mm-25mm
Hook angle	8°-38°	8°-38°
Working speed	0-12 teeth/min	0-12 teeth/min
Grinding wheel diameter	11"-7.8"	300mm-200mm
Grinding wheel thickness	0.3"-0.6"	8mm-15mm
Pump cooling system	10l /min	100 l/min
Electricity	10kVA, 480VAC	10kVA, 400VAC

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BAND SAW SOLUTIONS SHARPENING

Baracuda 750

Side Dressing Machine

- + Central electrical blade height adjustment
- + Saw blade clamping system, clamps the blade automatically when grinding
- + Grinding wheel is direct driven, eliminating vibrations and enabling deep pass (heavy removal operation is possible)



- + Grinding heads are guided by pre-loaded linear bearing technology to assure optimum accuracy
- + CNC control
- + Saw blade width capacity: 20-330mm 0.8"-12"
- + Round saw attachment available

Specifications

Band saw width	0.8"-13"	20mm -330mm
Blade thickness	0.02"-0.2"	0.6mm-5mm
Pitch adjustable	0.4"- 4"	10mm-100mm
Working speed	0-16 teeth/min	0-16 teeth/min
Wheel diameter	5"	125mm
Grinding wheel motor	2-2.5Hp with electronic speed regulation	2- 1.8 kW with electronic speed regulation
Pump cooling system	0.66Hp, 40 l/min	0.5kW, 40 l/min
Electricity	400VAC 3ph 50/60Hz	400VAC 3ph 50/60Hz

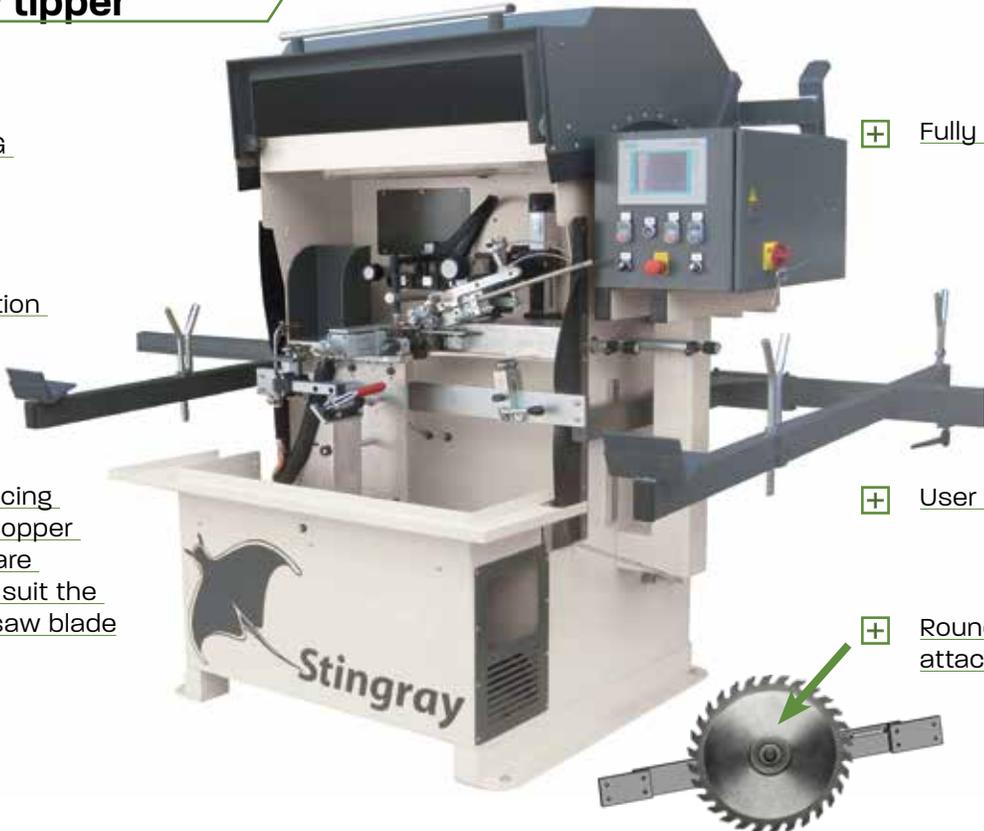
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BAND SAW SOLUTIONS

TIPPING -STELLITE/HSS

Stingray

Band saw tipper

- + Plasma or TIG welding
 - + Gas or induction annealing
 - + Melts hard facing materials in copper moulds that are preformed to suit the teeth of the saw blade
 - + Fully automatic tipping
 - + User friendly interface
 - + Round saw attachment available
- 

Specifications

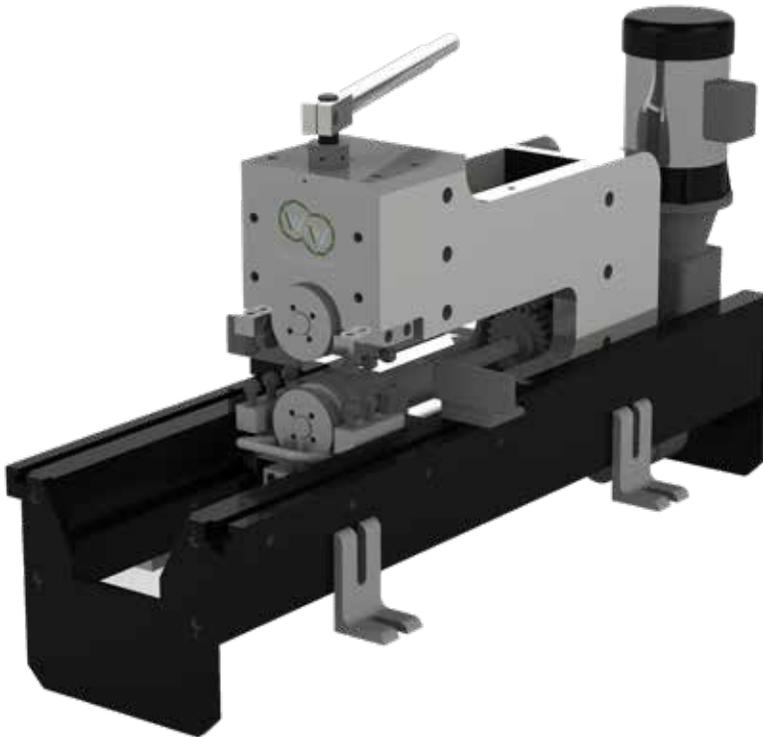
Band saw width	1"-14"	30mm -360mm
Blade thickness	0.02"-0.15"	0.6mm-4mm
Pitch adjustable	0.78"-4"	20mm-100mm
Working speed	3-6min	3-6min
Welding material	Stellite /HSS rod or wire	Stellite
Dimension	L:161.2" X W:72.4" X H:72.8"	L:4094mm X W:1838mm X H:1850mm
Weight	2,645lb	1,200kg
Electricity	400VAC 3ph 50/60Hz	400VAC 3ph 50/60Hz

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BAND SAW SOLUTIONS TENSIONING & LEVELING

Dish-O-Matic Band Saw // Stretcher Roll



The Williams & White Dish-O-Matic Band Saw Stretcher ultimate Stretcher roll effortlessly tensions and level band saws with the one machine. Saving time and space in the shop floor.

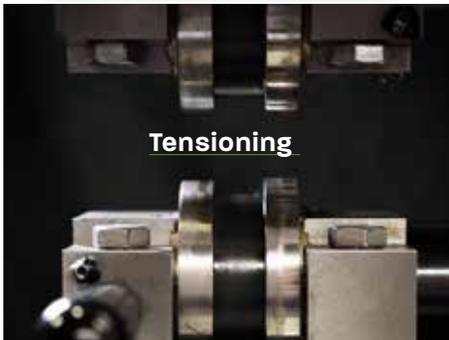
Highlights

- ✓ **Heavy-duty C-frame construction** → robust design is built to last
- ✓ **High-precision roll placement with electric actuator** → for easy setup
- ✓ **Patented Dish-O-Matic II system** → saw tensioning & leveling on one machine without flipping the saw
- ✓ **Manual or hydraulic roll pressure** → reduces heavy saw hammering
- ✓ **Drum switch roll actuation** → for simple operation

Dish-O-Matic II roll system

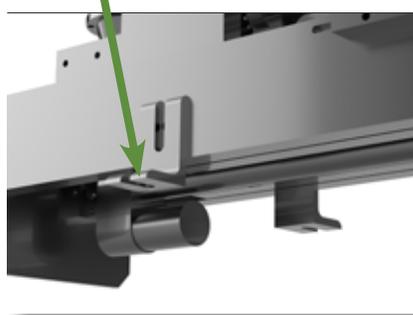
- + For precise tensioning and leveling on one machine. The DOM II roll system allows the filer to tension and level the saw with one machine.
- + Off-set roll diameter for unobstructed tensioning.

NO NEED TO FLIP THE SAW WITH THE DOM II STRETCHER!



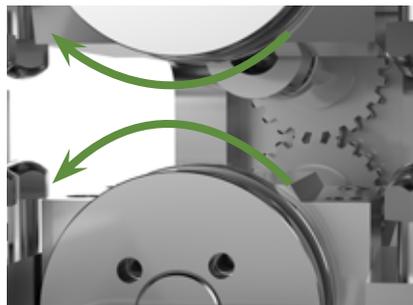
Electric actuator for cross saw roll movement

- + Easily change rolling position for precise tensioning.



Both top and bottom rolls are driven

- + Ensures band saw properly feeds through roll system.



Options

- + Hydraulic roll pressure
- + Variable speed rolls
- + Motor brake
- + Round saw attachment
- + Digital pressure gauge



Models

#10E	Tensioning up to 10" wide bands
#10 DOM2	Tensioning and leveling up to 10" wide bands
#17E	Tensioning up to 17" wide bands
#17 DOM2	Tensioning and leveling up to 17" wide bands

Specifications

	#10	#17
Band saw capacity	Up to 10" (254mm)	Up to 17"(432mm)
Plate thickness	Up to 1/4" (6.35mm) thick	Up to 1/4" (6.35mm) thick
Dimensions	H:18" (457mm) L:36"(914mm) W:30" (762mm)	H:18" (457mm) x L:48"(1,219mm) x W:30"(762mm)
Standard roll radius	6" (150mm)	6" (150mm)
Shipping weight	325kg 717lb	400kg 882lb
Voltage	480Vac, 3 Ph, 60Hz,	400 Vac, 3 Ph, 50Hz
Power	3kVA	3kVA

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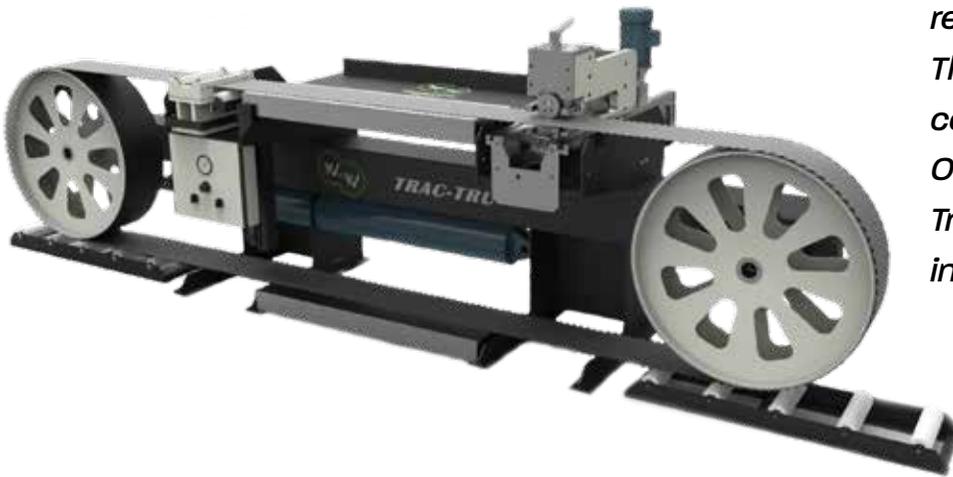


TENSIONING & LEVELING BAND SAW SOLUTIONS

Trac Tru Band Saw Bench

NO NEED TO FLIP THE SAW WITH THE DOM II TRAC TRU BENCH

The Williams & White Trac Tru band saw bench is a one-stop repair center for band saws. The rugged box beam, universal columns and our patented Dish-O-Matic system make the Trac Tru the best and most functional in the industry.

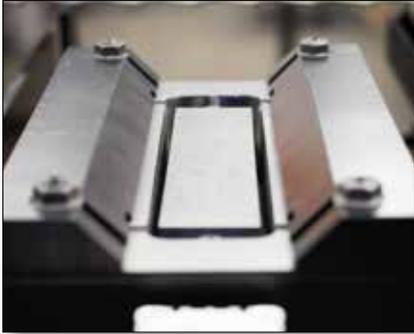


Highlights

- ✓ **Box-frame construction** → makes this the most durable stable bench in the industry
- ✓ **Air-strain cylinders** → tightens the saw and eliminates the need for weights
- ✓ **2 Nichrome anvils** → for top and bottom hammering
- ✓ **Integrated lighting** → for precision inspection
- ✓ **Can handle saws from 28' - 60'** → versatile for your shop

Welding clamp

- + The deluxe bench model is equipped with a welding clamp and welding slide. The welding slide enables you to easily move the clamp when it is not in use.



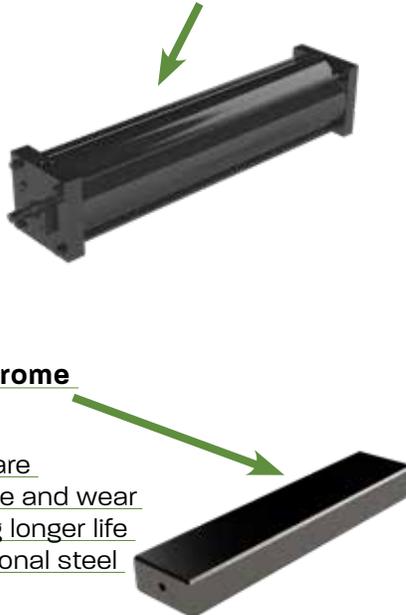
Inspection lift

- + Standard on all deluxe models, the inspection lift allows the operator to raise the saw for further inspection.



Standard Nichrome leveling slabs

Nichrome slabs are extremely durable and wear resistant offering longer life span than traditional steel slabs.



Expansion cylinder & multi-length

- + Uses an air-strain expansion cylinder to pull the saw blade, eliminating the need for weights.
- + Multi-length option available, which is intended for benches that work on multiple band saws of different lengths. This addition enables you to expand or compress the bench from one to twelve feet.
- + The ability to run multiple saws off of one bench reduces the amount of space required in your filing room or saw shop.

Williams and White Dish-O-Matic II System

- + Patented Williams & White Dish-O-Matic II Stretcher Roll allows the operator to tension and level the blade in one setup.
- + Drastically reduces the amount of hammering required.



Options

- + Height control
- + Electronically controlled wheel alignment
- + Electronically controlled roll positions
- + Integrated inspection lighting
- + Option to have a welding clamp heater, which heats the welding clamp and creates higher-quality welds.

Trac Tru #10	Trac Tru #17
+ Up to 10" wide saw	+ Up to 17" wide saw

Specifications

Bandsaw length capacity	Up to 60'	Up to 18.3m
Bandsaw width capacity	Up to 17"	Up to 430mm
Standard roll radius	6"	150mm
Shipping weight (38' saw)	Approx 4500lb	Approx 2050kg
Electricity	480Vac, 3ph, 60hz	480Vac, 3ph, 60hz
Dimensions (36 wheel)	W:52" X H:58" X variable length	W:1320mm X H:1470mm X variable length

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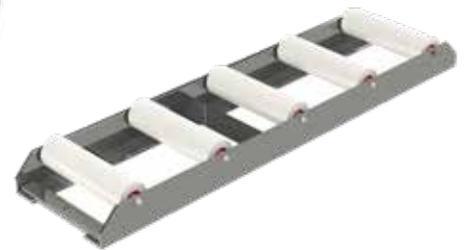


TENSIONING & LEVELING BAND SAW SOLUTIONS

Standard Bandsaw Bench



The Williams and White Standard Bandsaw Bench is designed to be a universal bandsaw maintenance station. This bench provides all the necessary features to maintain your bandsaws in a heavy duty package.

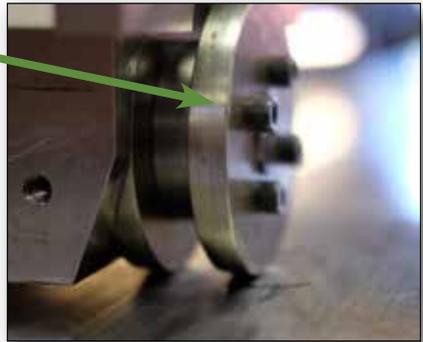


Highlights

- ✓ **Square beam design** → for durability and stability
- ✓ **Will fit all stretcher brands** → versatility for all environments
- ✓ **Mild steel or Nichrome precision ground anvils available** → for hammering (both sides)
- ✓ **Manual extendable saw length adjustment** → to fit multiple lengths of saws
- ✓ **Manual saw lift** → for saw inspection

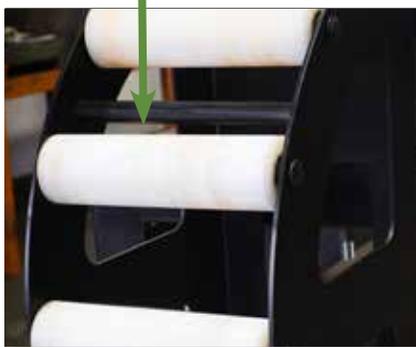
Williams and White Dish-O-Matic II System

- + Patented Williams & White Dish-O-Matic II Stretcher Roll allows the operator to tension and level the blade in one setup
- + Drastically reduces the amount of hammering required
- + Reduces the need to flip the saw



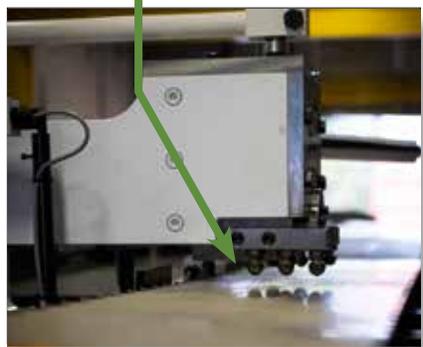
Extendable saw turn around

- + UHMW turn around tracks can extend and contract for varying saw lengths



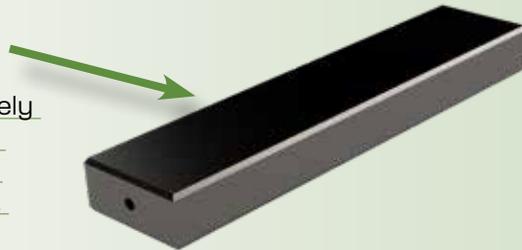
Hardened alignment bolts

- + Both top and bottom of saw for stability as the saw tracks through the rolls



Available Nichrome leveling slabs

- + Nichrome slabs are extremely durable and wear resistant and offer a longer life span than traditional steel slabs.



Options

UHMW air inspection lift

- + Lifts the saw while in place on the bench to efficiently inspect band saw blade tension

Hydraulic roll pressure

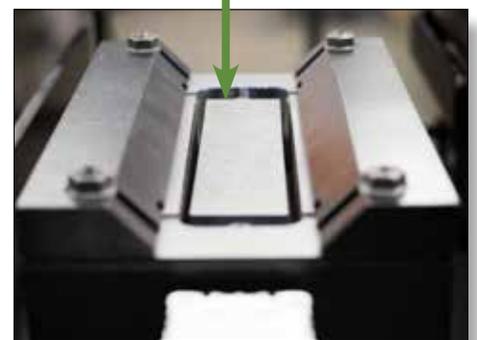
Large anvil upgrade

Variable speed rolls

Additional floor tracks

Band saw welding clamp

- + Hardened and ground hammering anvil
- + Optional heating element
- + Spring retraction
- + 10", 12", 16" capacity
- + Pneumatic clamping



Specifications

Wheel diameter	(2) 36 Inches	(2)914mm
Leveling slabs	(2) 36" x 8" x 4" mild steel	(2) 914mm x 203mm x102mm mild steel
Stretcher roll	Dish-O-Matic 10D	Dish-O-Matic 10D
Saw length	21' x 5"	6400mm x 127mm
Saws	Single cut	Single cut
Electricity	480Vac,3ph, 60hz	480Vac,3ph, 60hz

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Auto Bench Hammerhead 3000

FULLY AUTOMATIC

The Hammerhead 3000 Auto-Bench is an all in one band saw processing center.

Designed to automatically tension and level a band saw with ease, the Hammerhead3000 is a must have for any saw mill or band saw producer.



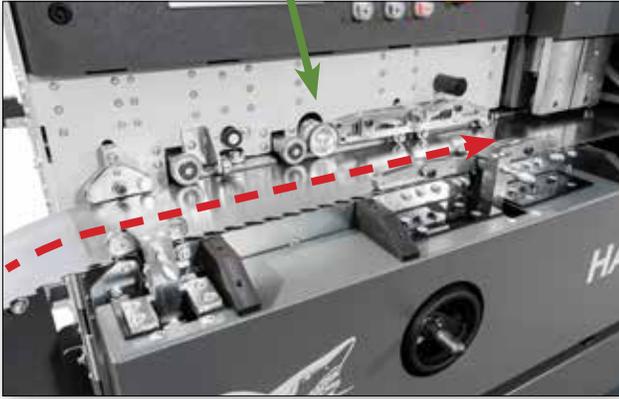
Highlights

- ✓ **Fully automatic** → Leveling and tensioning of band saw blades
- ✓ **Carbide tungsten tensioning rolls** → For longer life
- ✓ **Touch screen control** → Simple and easy operation
- ✓ **High accuracy measuring system** → With 3 high precision sensors
- ✓ **Auto tracking system** → Lines up saw blade automatically in the machine
- ✓ **Saw blade Feeder** → Saw is driven with two feeder rolls
- ✓ **Double head system** → 2 Independent tensioning+Leveling heads
- ✓ **Protected working area** → By an optic curtain

Key Features

Auto tracking system

- + Lines up saw blade automatically in the machine



Double head system

- + Dual head tension + level independently



Touch screen control

- + Simple and easy operation



Fully automatic band saw center

- + Auto tensioning and leveling on one bench



Specifications

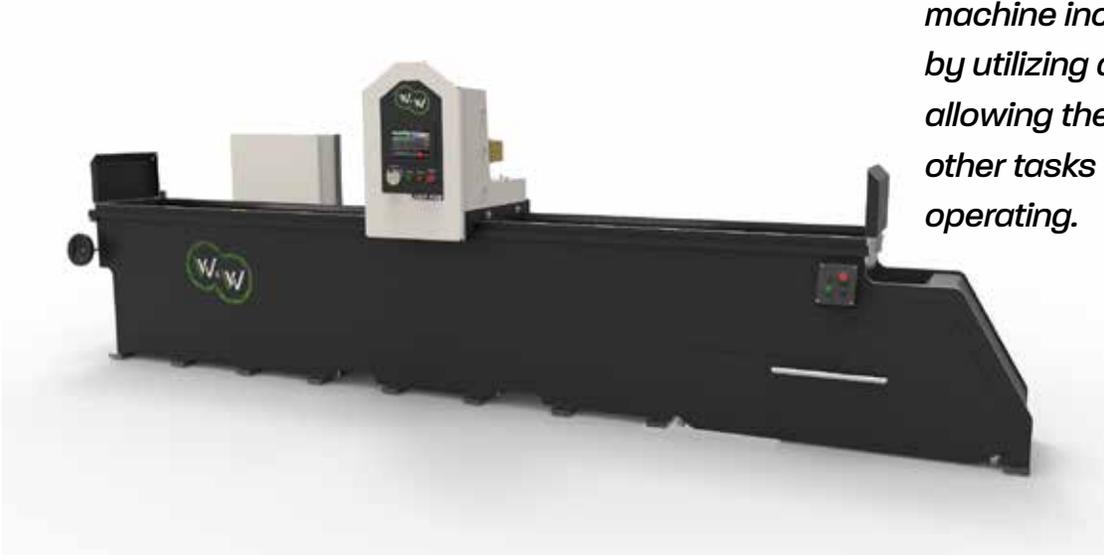
Saw blade width	3"-13"	80-330 mm
Saw blade length	0.2"-0.55"	5-14 mm
Saw blade thickness	0.03"-0.08"	0.7-2.0 mm
Working speed adjustable	59'/Min	18 m/Min
Leveling tolerance adjustable	0.0008"-0.0015"	0.02-0.04 mm
Adjustable voltage tolerance	0.0015"-0.003"	0.04-0.08 mm



KNIFE & SURFACE GRINDING

Knife Grinder // LSGX-P / LSGX-D

The LSGX magnetic flat bed knife grinder is known for its robust power and ability to produce fine finishes under heavy cutting. This machine increases production by utilizing automatic grinding, allowing the operator to focus on other tasks while the machine is operating.



Highlights

- ✓ **Stress relieved heavy duty steel base** → minimizes vibration which results in precise surface finishes makes work piece clamping and removal easy
- ✓ **Electromagnetic chuck with automatic demag cycle** → for efficient operation
- ✓ **CNC down feed and carriage travel** → for precise machine movements
- ✓ **Square rail linear bearings and tucrite dovetail spindle slide** → for extreme machine accuracy
- ✓ **Thru spindle coolant** → for proper grinding temperature control

Precision linear bearings

- + Williams & White's knife grinders are built using precision square-track rails and bearings. These superior components allow the carriage to travel with accuracy and create stability in xyz axes.

Heavy duty frame

- + Manufactured using heavy duty welded box frame construction to increase accuracy and minimize vibration.

Spark-out cycle to remove burrs at end of cycle.

Through spindle coolant

- + Full thru -spindle coolant ensures the right amount of coolant reaches the parts/ knives. This increases the life of the grinding stones and creates a smooth finish on the parts/ knives.

Quick change spindle

- + Williams & White's quick-change spindle system enables the operator to change the grinding stone with minimal downtime.

Dovetail spindle slide

- + The dovetail spindle slides found on Williams & White's knife grinder have larger contact areas than the leading competitors .
- + This provides higher stiffness and load-bearing capabilities, resulting in greater grinding consistency.



Options

Magnetic separator coolant tank with quick change fittings

- + Quick disconnect system: allows the user to disconnect coolant hoses to remove the coolant tank for cleaning and refilling.
- + A magnetic separator can also be added, which separates metal debris from contaminating the coolant.

Specifications

LSGX-P

Power requirements	480VAC, 3ph 60Hz, 30 KVA
Spindle motor	7.5HP/10HP/15HP (5.5kW/7.4kW/11kW)
Grinding wheel size	10" ring or 12" segmented wheel (254mm or 304mm)
Down feed Increments	.0005" - .003 (.01mm - .07mm)
Grinding wheel to surface clearance	5.25" (133mm)
Accuracy	.0005" per foot (.127mm per .304m)
Coolant capacity	160L
Weight	3,306lb (1,500kg) - 9,920lb (4,500kg) (depending on Lengths)
Magnetic surface area	6" (150mm) wide x grinder length
Frame plate thickness	3/4" (19mm)
Magnetic chuck	6" (152mm) magnetic chuck (+-90 rotation)
Way cleaners	(option)
Touch screen	-
Program save function	-
Downfeed	CNC downfeed
Speed Carriage	2 Speed carriage

LSGX-D

Power requirements	480VAC, 3ph 60Hz, 30KVA
Spindle motor	10HP/15HP/25HP (7.4kW/11kW/18kW)
Grinding wheel size	10" ring or 12" segmented Wheel (254mm or 304mm)
Down feed Increments	.0001" - .005" (.0025mm - .127mm)
Grinding wheel to surface clearance	5.25" (133mm)
Accuracy	.0005" over 5 foot (.127mm over 1.524m)
Coolant capacity	160 L
Weight	5,511lb (2500kg) - 4,500lb (9920kg) (depending on Lengths)
Magnetic surface area	8" (200mm) wide x grinder length
Frame plate thickness	1" (25.4mm)
Magnetic chuck	8" (203mm) magnetic chuck (variable strength)
Way cleaners	Included
Touch screen	10" (254mm) touch screen
Program save function	Yes
Downfeed	Servo CNC downfeed
Speed Carriage	Variable speed carriage

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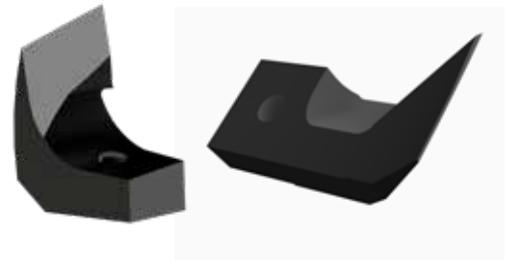


KNIFE & SURFACE GRINDING

Hewsaw // Knife Grinder



The Williams & White CKG/ EKG Knife Grinder is designed specifically for Hewsaw small log lines. The innovative design allows 24-48 knives to be sharpened simultaneously depending on jig options.

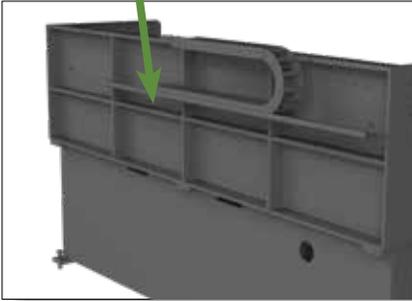


Highlights

- ✓ **Heavy duty stress relieved frame** → minimizes vibration which results in precise surface finishes
- ✓ **Precision linear bearing design** → for extreme machine accuracy
- ✓ **CNC carriage travel and down feed** → for easy operation
- ✓ **Multiple jig configurations** → to fit your sharpening requirements
- ✓ **Centralized lubrication system** → for stress free maintenance

Heavy duty stress-relieved frame

- + The heavy duty, vertically reinforced frame reduces harmful vibrations, flexing and distortion.



24-48 knife-jig

- + The Williams & White EKG/CKG has a 24-36 knife capacity to maximize the efficiency of your operation. This feature is exclusive to Williams and White EKG/CKG grinders and cannot be found in the standard rotary grinders (which hold just 12 knives).

Fixture options

Standard jig with 48 knife capacity



CKG height adjustable fixture **CKG standard fixture** **EKG fixture**

CKG height adjustable Jig with 36 knife capacity

- + Our adjustable knife Jig allows each of the 36 knives to be individually positioned, eliminating the need to set the Jig to the most worn knife. This control significantly increases the lifespan of each knife, and is not available on standard rotary grinders.



SHARPENS KNIVES BACK TO FACTORY STANDARDS

Specifications

	CKG chipping knife	EKG Edging Knife
Knife Capacity	Up to 36 knives (adjustable)	Up to 24 knives (fixed)
Sharpening Cycle	2-3 hours	2-3 hours
Spindle motor RPM	3600 RPM	3600RPM
Ship weight	4800lb, 2177kg	4800lb, 2177kg
Coolant tank capacity	130L	130L
Voltage	480Vac, 3ph, 6Hz	480Vac, 3ph, 6Hz
Power	8kVA	8kVA
Power per spindle	7.5hp, 5.5kW	5.5kW

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SAW GUIDE TECHNOLOGY

CNC Guide Dresser // GDX



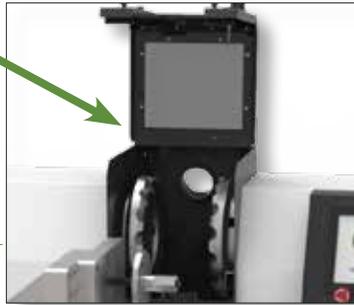
Introducing the fully automated 3 Axis CNC GDX Guide Dresser. Accurate saw guides improve the performance of your saw mill by increasing lumber recovery and reducing saw deviation; resulting in higher profits.

Highlights:

- ✓ **3 axis CNC control accurate within +/- .0002" (0.005mm)** → Improved guide accuracy
- ✓ **10" touch screen and custom Williams & White software** → for intuitive operation
- ✓ **Fits all saw guides** → one machine for all guide milling requirements
- ✓ **Multi indexable insert cutter heads** → for unparalleled surface finish and grinding speed
- ✓ **Reduced downtime/better mill performance** → more accurate lumber dimensions

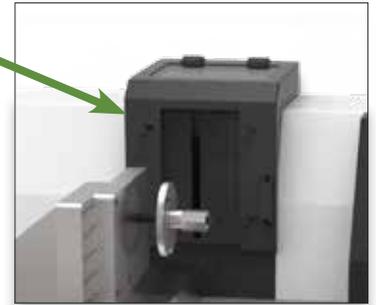
CNC Milling heads

- + Variable RPM
- + Cutter head lift off
- + 15 four-sided carbide cutters per head gives ultra smooth surface finish with high feed rate. (optional diamond inserts)
- + 7.5 HP spindle motors



Guarding

- + Electronic hood lock ensures operator safety



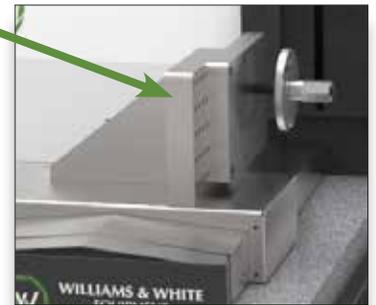
Precision machined granite base

- + Vibration dampening temperature stability for unmatched accuracy
- + Eliminates vibration during milling & isolated from environmental vibrations



Guide post

- + Heavy duty
- + Universal bolting
- + 2" inch thickness



Why choose the Williams and White GDX?

Comparable Competition	GDX
<input type="checkbox"/> Manual cutter head movement	<input checked="" type="checkbox"/> Cutting axes CNC controlled → Less error prone
<input type="checkbox"/> Stepper motor motion on guide feed	<input checked="" type="checkbox"/> Feed axes CNC controlled → Smoother milling
<input type="checkbox"/> Cutter cover is loose during operation	<input checked="" type="checkbox"/> Integrated safety system - machine door interlocked during cutting operation → Reduced injury risk
<input type="checkbox"/> Guide feed rate not adjustable	<input checked="" type="checkbox"/> Guide feed rate adjustable with touch screen → Fine surface finish
<input type="checkbox"/> Not adjustable through user interface	<input checked="" type="checkbox"/> RPM adjustable on touch screen → Easy to dial in
<input type="checkbox"/> No cutter head lift off	<input checked="" type="checkbox"/> Cutter head lift off → No back cutting
<input type="checkbox"/> Exposed ways	<input checked="" type="checkbox"/> Fully enclosed ways → Longer lasting accuracy

Options

- + Guide measurement station
- + Error detection sensors
- + Remote monitoring
- + Diamond cutter upgrade

Specifications

Guide thickness	0.5"-4" standard (6")	12.7mm-101mm
Cut depths	0.002"-0.030"	0.05mm-0.76mm
Cycle times	As low as 14 sec	As low as 14 sec
Weight	4,500lbs	2,041kg
Dimensions	L: 93" x W60" x H60"	L: 2,360 xW:1524xH:1524m
Voltage	4800V 3ph 60Hz	400V 3ph 50Hz
Power	23kVA	20kVA
Power per spindle	7.5Hp	5.5kW

Williams and White reserves the right to alter or amend specifications without prior notice



SAW GUIDE TECHNOLOGY

Circular & Band Saw Guides

Round Saw Guides



Williams and White specializes in manufacturing industry leading steel & aluminum saw guides. We provide the engineering, manufacturing and quality control to provide you with a product that is second to none. Accurate saw guides will increase lumber recovery, resulting in maximized profits for your mill.

Key Features

- ✓ CNC machined
- ✓ Extreme precision (+ / - .0002", 0.005mm)
- ✓ Super fine surface finishing
- ✓ Engineered hard-coat (type 3) anodizing
- ✓ Guaranteed flatness
- ✓ Engineered to meet your requirements
- ✓ Professional resurfacing and resizing

Quality Assurance

- ✓ Multiple inspection stages
- ✓ Engineered drawings
- ✓ Guide engraving
- ✓ Every guide cataloged and filed on record
- ✓ Williams and White quality assured

Saw Guide Repair

- ✓ Damaged guide repair
- ✓ Guide re-anodizing
- ✓ Guide resizing (approximately half the cost of purchasing new guides)
- ✓ Guide straightening

Guide Design & Engineering

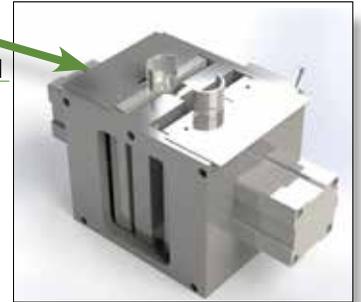
Williams and White uses cutting edge technology when working with customers to design and engineer saw guides & babbitt pads to help optimize coolant flow & improve mill performance.

Teardrop orifice designs



Babbitt mould

- + Custom designed mould chamber
- + Double pocket mould
- + Pneumatic operation
- + Optimizing babbitt design can improve sawing



Splines and arbors

- + Manufactured to precision tolerances
- + Induction hardened
- + Alloy steel
- + OEM replacements



Options

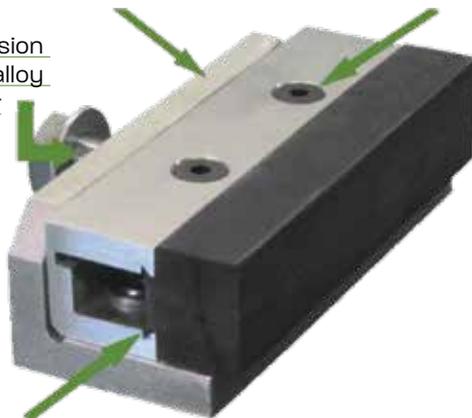
- ✓ **Heli-coil inserts or thread inserts:** offer extra protection against thread damage
- ✓ **Platinum series guides**
- ✓ **Nitriding available for steel guides**
- ✓ **Custom engraving**

Band Saw Guides

Lightweight aluminum alloy cartridges with steel inserts are standard on most sizes

A quick turn of the key locks the insert into the adapter

Lightweight precision made aluminum alloy Norguide adapter

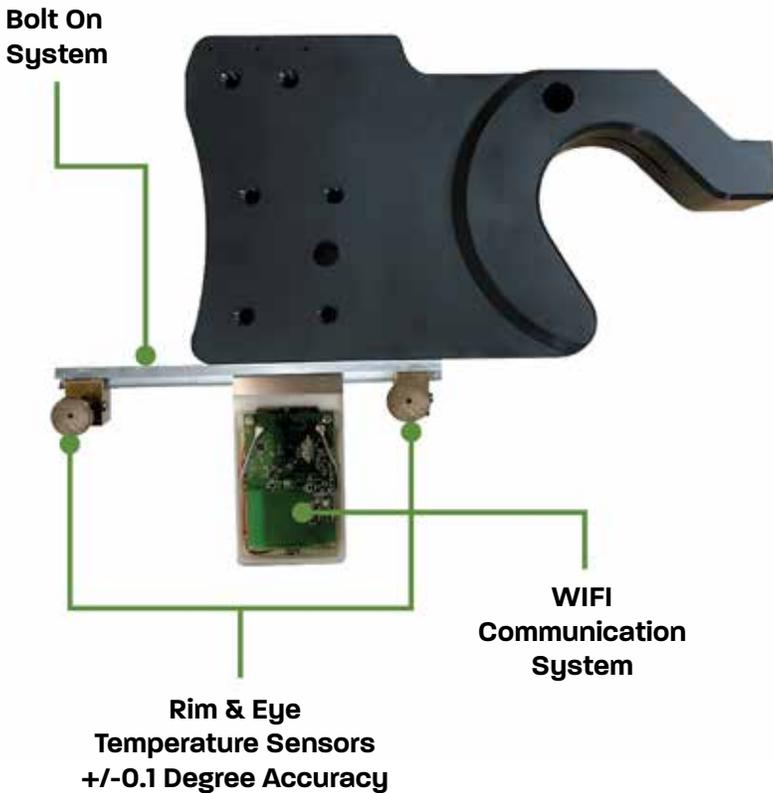


The dovetail inserts slides into the adapter block quickly and easily

Our A series band saw guides range in size from 6" – 15" wide (150mm-380mm). The guide blocks are 2" (50mm) in height and are 1 5/8" (41mm) deep. These guides can be resurfaced approximately 40 times. The A series has the option of an internally ducted top mounting bracket with a dual wide angle spray system.



SawSense Temperature Monitoring System



Williams and White has partnered with the innovative scientific solutions provider, FPInnovations, to offer a new technology to the sawmill industry.

This PATENTED technology accurately measures, in real time, the performance of the saw when in the cut for both circular and band saws, using two contacted temperature sensors.

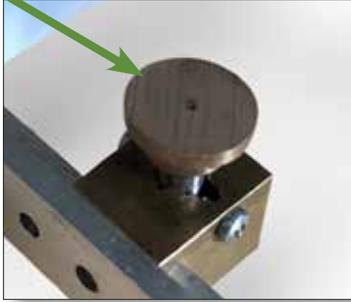
The SMARTGuide technology harnesses The Industrial Internet of Things (IIOT) to drive mill operations and efficiency to the forefront of the industry.

Highlights:

- ✓ **Reduces oil consumption up to 40%** → Reduces corrosion and pooling; less moisture in sawdust
- ✓ **Rechargeable batteries** → Up to 40 hours of life between charges
- ✓ **0-80°C temperature range** → +/- 0.1°C Accuracy
- ✓ **For both circle and band saw systems** → Can be mounted on any saw guide
- ✓ **Two sensors on the eye & rim of a saw** → Ensures optimal saw performance
- ✓ **Contact Sensors** → Non-contact systems are proven to be inaccurate in wet environments. Moisture absorbs IR radiation, affecting the signal

Bearing Bronze Contact sensor system

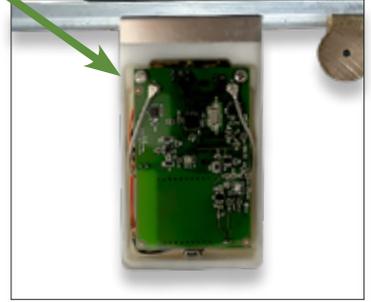
- + Monitoring rim and eye temperatures with 2 sensors
- + Moves to comply with the saw body, ensuring 100% contact/ increased accuracy
- + Accurate measurement +/- 0.1 degrees
- + Excellent wear resistance



WIFI Wireless communication

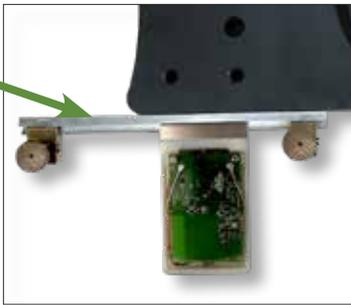
- + Continuous monitoring
- + Access data from nearly any convenient location within the primary networking environment

Proven in mill applications



Bolt on system

- + Modify existing saw guides to mount measurement system



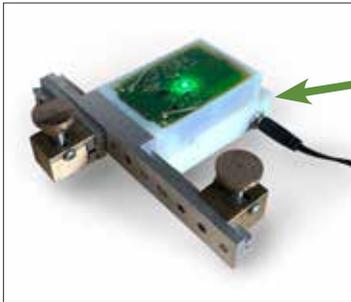
SawSense Monitoring

- + Measure and log temperature performance
- + Real time analytics



Wireless charging

- + Convenient charging by dropping the unit on the charging pad.
- + No charging port to break!



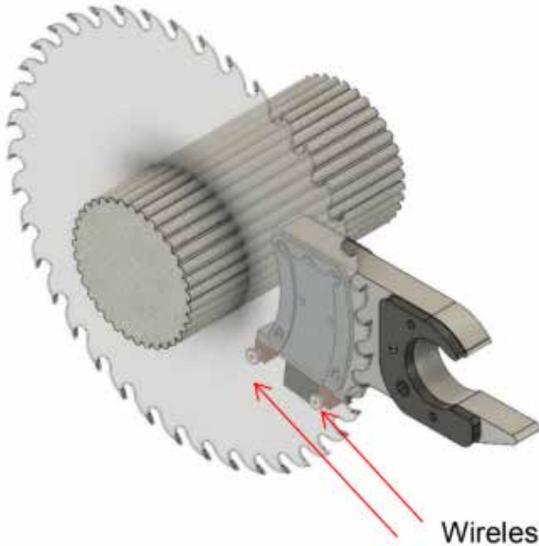
Benefits to the sawmill

- ✓ **Decreases sawing deviation** → Prevents wrecks/unscheduled saw change
- ✓ **Rim & eye real time measurement** → Ensures optimal saw performance
- ✓ **Higher chip quality** → Higher value
- ✓ **Increases mill speed** → Higher profits
- ✓ **Alarm notification system** → Reduces saw and guide damage and downtime
- ✓ **Identifies performance issues in real time** → Determine or eliminate potential problem areas

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Contact Sensors

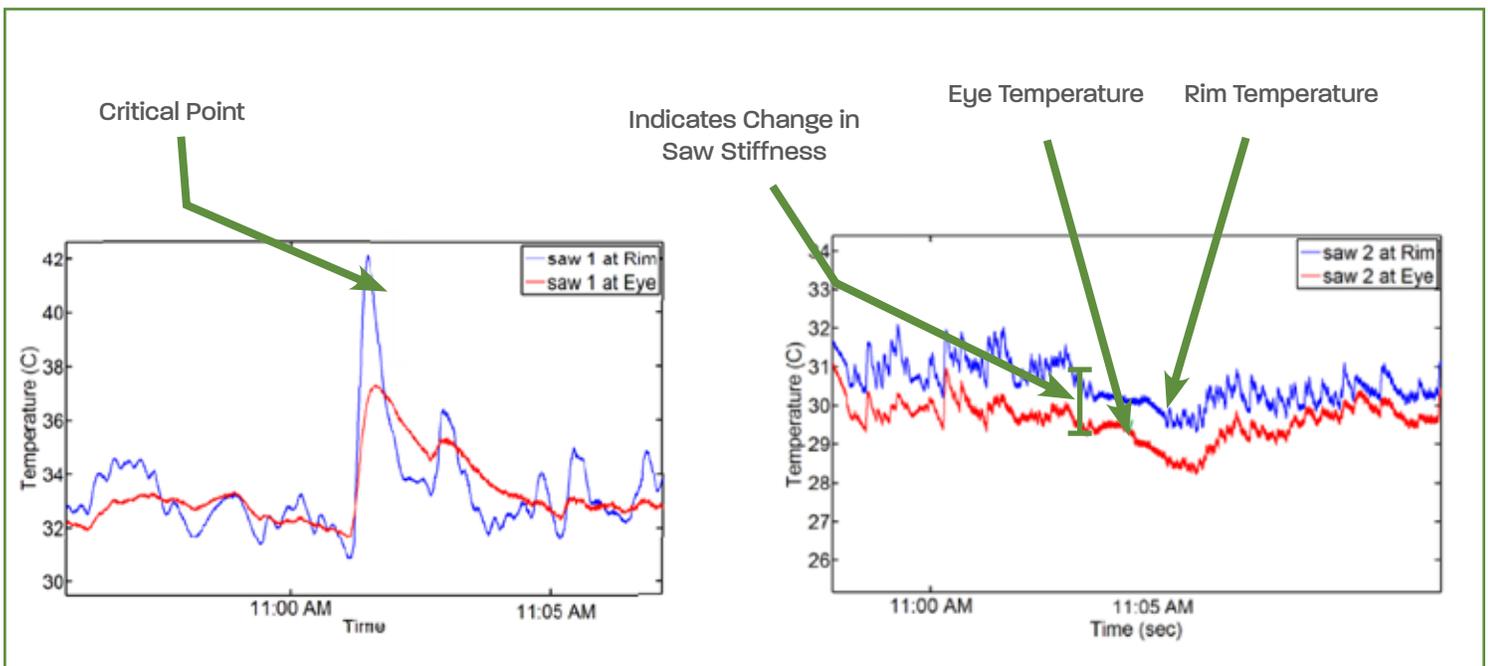


Wireless Temperature Sensor

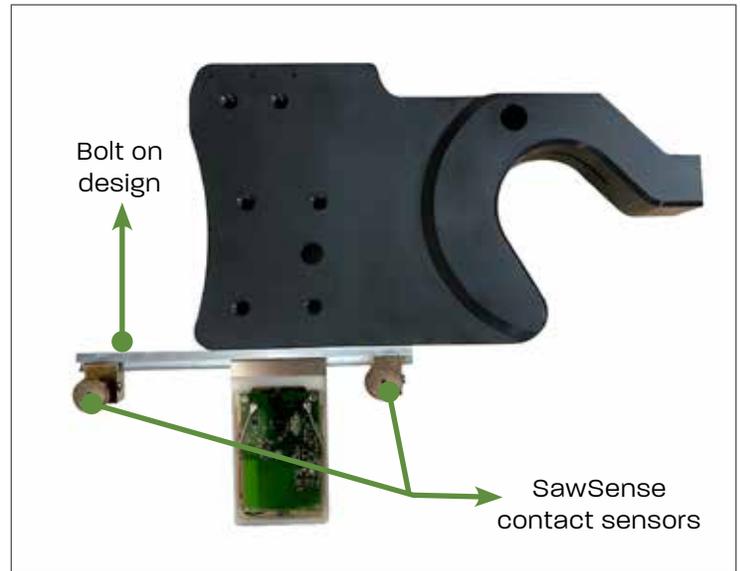
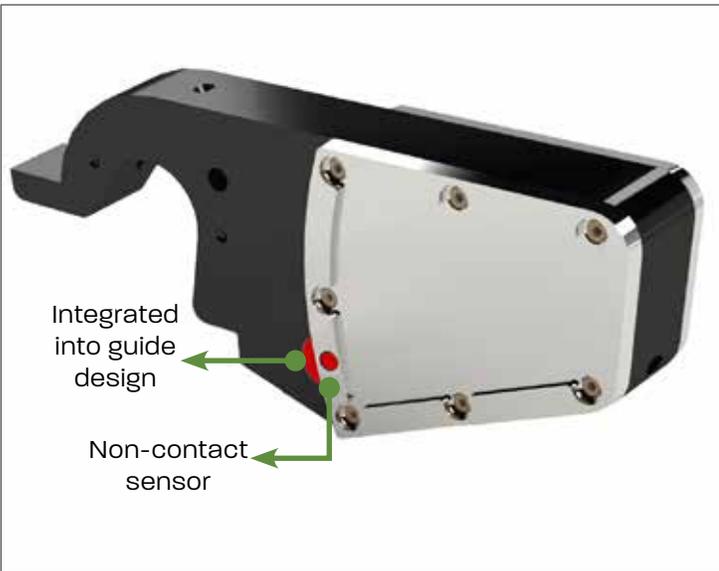
Rim and eye real time temperature measurement ensures optimal saw performance.

By temperature monitoring at the rim and the eye of a saw blade, saw and guide damage can be prevented and deviation can be minimized.

Eye & Rim Temperatures



Contact Vs. Non-contact Temperature Sensors



Why to choose Williams and White SawSense Temperature Sensor?

Non-contact Sensors	Contact SawSense Temperature Sensor
<p>❌ Inaccurate; Saw dust, water, coolant and any external factors can block IR beam</p>	<p>✅ Accurate within 0.1°C</p>
<p>❌ Single sensor; Does not indicate temperature difference between eye and rim</p>	<p>✅ Rim and eye sensors; Indicates saw blade stiffness. Difference in temperature at the eye and rim of a saw blade causes twisting and dishing. Resulting in saw plate damage and cut deviation.</p>
<p>❌ Integrated in saw guide; Requires re-machining into new saw guide in case of guide damage</p>	<p>✅ Modular bolt on attachment; Easy mounting and dismounting from different saw guides, enabling change over for target size or damaged guides.</p>
<p>❌ High modification cost; Guides and babbitt molds require modification/redesign to accommodate sensors</p>	<p>✅ Minimal modification cost; Minimal saw guide modification and adjustments is needed due to bolt on design</p>



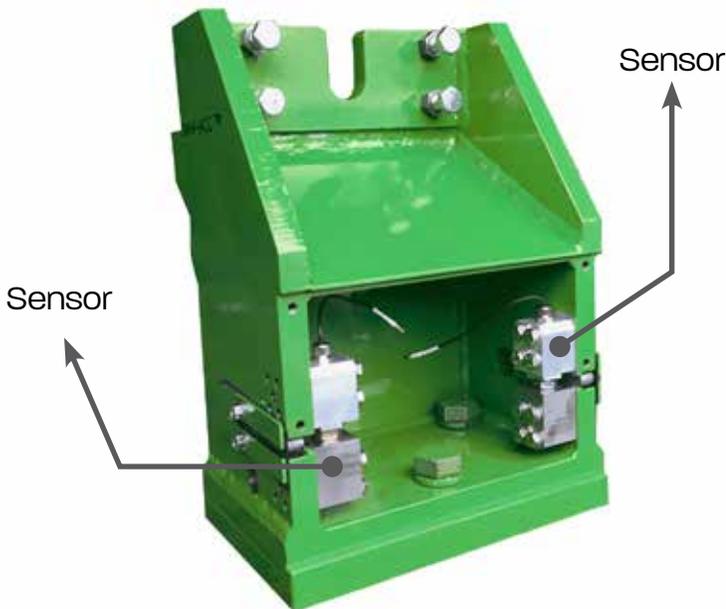
Saw-ADD™ The Smart Band Saw Solution



Williams and White is excited to offer Saw-ADD™ to the sawmill industry as part of the Smart Bandsaw Solution.

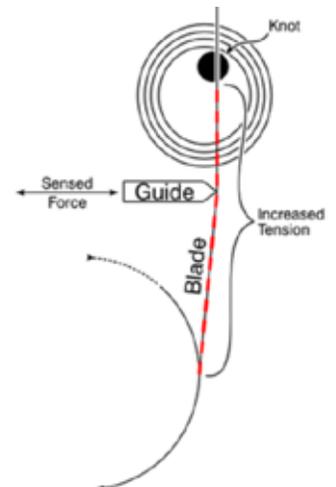
Band Saw-ADD™ integrates force sensors on the leading and trailing edge of the saw blade. This detects twisting forces on the saw blade that will steer it into deviation unless prevented by Saw-ADD™.

This PATENTED technology, enables you to saw most logs 15% faster with less deviation and without wrecking a saw. It will automatically slow the feed-speed only for the tough ones



Highlights:

- ✓ **Custom made for your guide block**
- ✓ **Lower guide holder;** Top Guide systems can only measure deviation that has already occurred
- ✓ **The only anti-deviation system available**
- ✓ **Software slows feed speed to stop deviation then returns to optimum speed**
- ✓ **Detects force before deviation occurs;** Sensitive to millionths of an inch deflection
- ✓ **Enables reducing target size for higher lumber recovery**
- ✓ **Analog signal provided by Saw-ADD™;** Compatible with your PLC
- ✓ **Measurement is zeroed between every log**
- ✓ **Extremely fast ROI**



Key Features

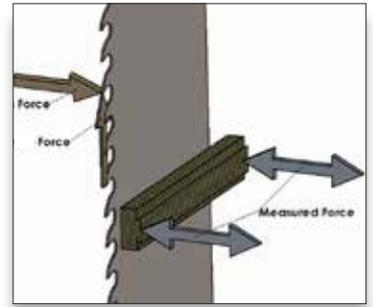
Integrated force sensors

- + Accurate to +/-500 pounds guide pressure



Dual Sensors

- + Leading edge & trailing edge sensors
- + Measures the twisting on the saw blade that steers it into deviation

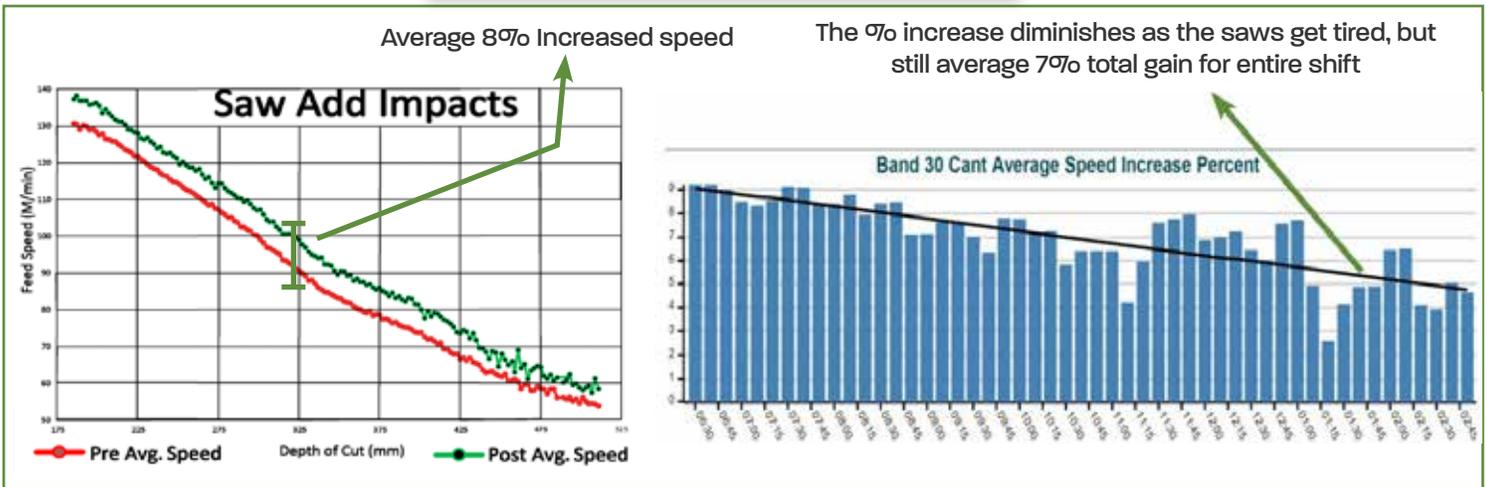


Smart Band Saw Monitoring

- + Adjustment for maximum saw performance
- + Real-time saw strain and guide pressure
- + Shows last 30 log average feed speed



Proven in saw mill applications



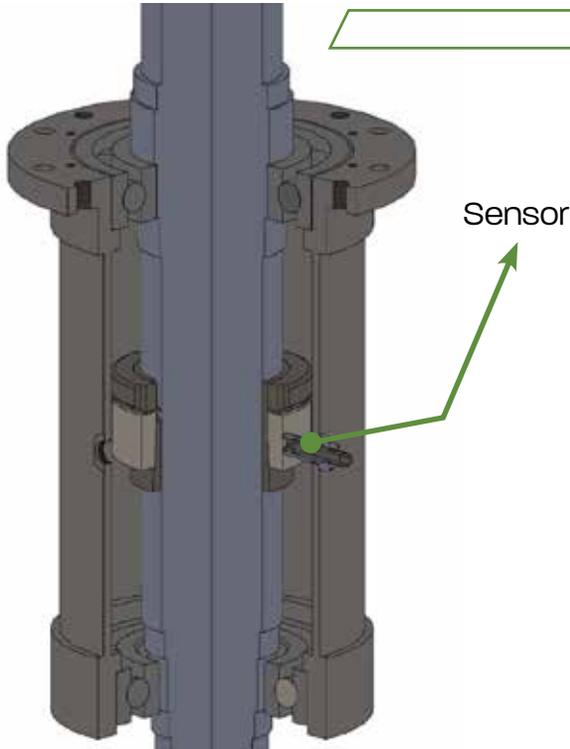
Benefits to the sawmill

- ✓ **Adjust speed automatically** → Increases average feed speed up to 15%
- ✓ **Higher Grade Lumber** → Higher value
- ✓ **Reduced Target Size** → \$300k - \$1M additional lumber value per year
- ✓ **Minimize reman** → Less Planer Skip / Better finish
- ✓ **Minimize planer allowance** → While still increasing grade
- ✓ **Diagnostic Capabilities** → Determine or eliminate potential problem areas
- ✓ **Less Benching** → Less scheduled and unexpected saw changes
- ✓ **Less Saw Wrecks** → Less Downtime
- ✓ **Safety Benefits** → Less unexpected incidents

Williams and White reserves the right to alter or amend specifications without prior notice



Saw-ADD™ The Smart Arbor Solution



Williams and White is excited to offer Saw-ADD™ to the sawmill industry as part of the Smart Arbor Solution.

Round Saw-ADD™ is a patent pending integration of force sensors on the saw arbor, measuring the radial forces on the round saw blades from the tooth cut and the guide friction.

This enables average feed speed increases up to 18% while automatically slowing only when necessary to preemptively reduce deviation, saw damage and stuck cants.

Highlights:

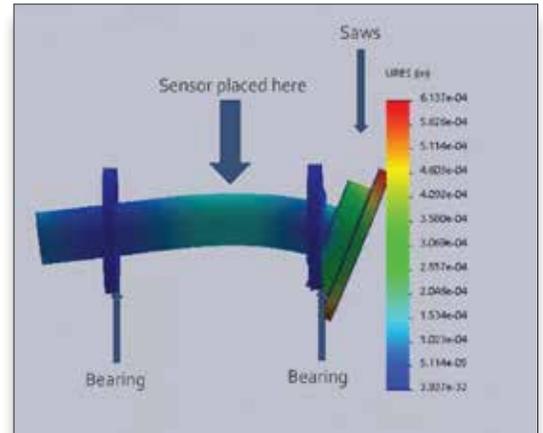
- ✓ Saw-ADD™ is The only anti-deviation system available
- ✓ Software slows feed speed to stop deviation then returns to optimum speed
- ✓ Sensitive to radial forces half second before arbor current ; Slows feed speed to prevent deviation or damage
- ✓ Enables reducing target size for higher lumber recovery
- ✓ Extremely fast ROI
- ✓ Analog signal provided by Saw-ADD; Compatible with your PLC
- ✓ Measurement is zeroed between every cant
- ✓ HMI displays provide indication and adjustment for maximum saw and machine performance

Key Features

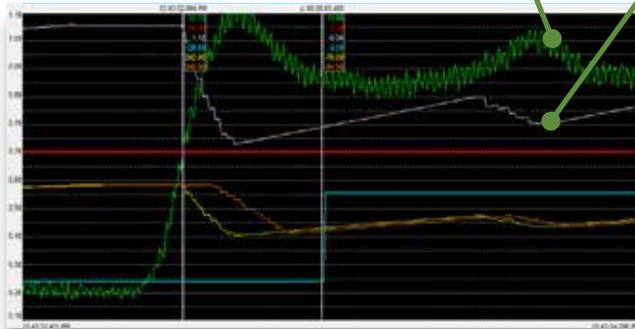


Optimal 10 inch VDA

- + A target ring is added to the arbor shaft, between the bearings, with a taper-lock (shown above). Four Boss O-Ring fitting holes for sensors and pipe fitting access holes are added at 90 degrees.



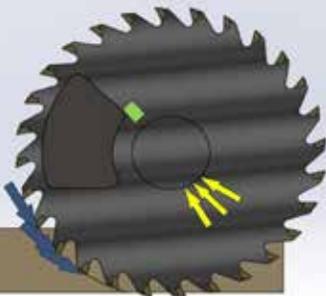
Arbor radial forces
Saw-ADD™ speed command



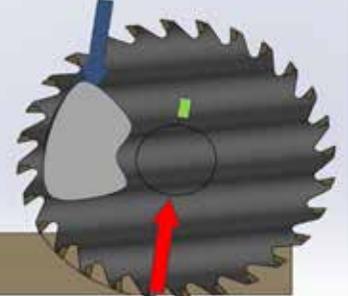
- + Saw-ADD™ reduces speed when the arbor pressure is high
- + Saw-ADD™ increases speed when the arbor pressure is low

Proven in saw mill applications

Saw-ADD™ measuring sawing Force



Saw-ADD™ measuring friction Force



Benefits to the sawmill

- ✓ **Closed loop speed control** → Average feed speeds up to 18% higher
- ✓ **Higher Grade Lumber** → Higher value
- ✓ **Reduced Target Size** → \$300k - \$1M additional lumber value per year
- ✓ **Minimizes Deviation** → Less Planer Skip / Better finish
- ✓ **Minimize planer allowance** → While still increasing grade
- ✓ **Diagnostic Capabilities** → Determine or eliminate potential problem areas
- ✓ **Less Benching** → Less scheduled and unexpected saw changes
- ✓ **Less Saw Wrecks** → Less Down Time
- ✓ **Safety Benefits** → Less unexpected incidents

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CA5 Tool Grinder

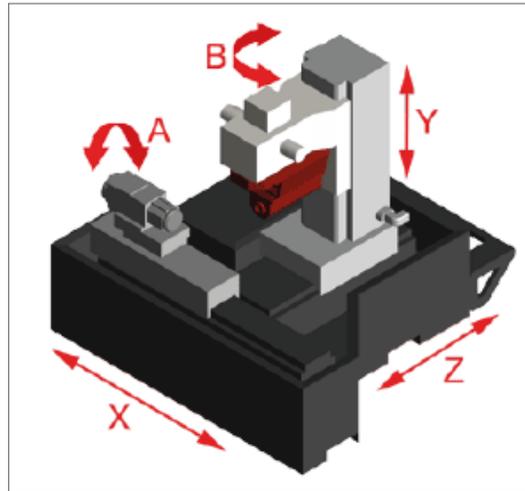


CA5 Tool Grinder is equipped with a long table of 720 mm, a wide range of accessories, a powerful electro spindle and EasyGrind multifunction software developed by SMP Technik, the CA5 EvoBoost is perfect for manufacturing all your tools of small and medium size.

Highlights:

- ✓ **Axes X,Y, Z accurate within +/- .000004" (0.0001 mm)** → Resulting in high precision tools
- ✓ **6 slots grinding wheels rack loader** → Unload/load a wheel in less than 5 seconds
- ✓ **SA50 work piece holder** → Developing a high speed of 650 rpm
- ✓ **19.7" (500mm) long table** → Enough space to install necessary accessories
- ✓ **Mineral casting bed** → Vibration proof. 10 times the classic iron bed rigidity
- ✓ **Ergonomics** → Control desk with an easy replaceable 22" touch screen
- ✓ **Maintenance access panel** → Easy access for all maintenance & regular cleaning routines
- ✓ **Rigid nozzle tools cooling system** → Additional cooling system controlled by a cylinder
- ✓ **HSK40, HSK50 or HSK63 Electro spindle** → Adjustable speed . Including a self-cooling system
- ✓ **Renishaw tool probing** → Tool detecting and measuring accessory

Technical Details



capacities

Maximum tool length (grinding)	20"	500 mm
Maximum tool length (sharpening)	→20"	→500 mm
Maximum tool diameter	10 to 12	250 to 300 mm
Maximum weight of the tool	≈ 220 lbs	≈ 100 kg
Maximum wheel diameter (with HSK50 attachment)	12"	300mm

Options

- Wheel sensor
- Manual Tail-stock
- CNC control steady rest
- Robot charger
- Retractable tool cooling

Specifications

X axis course (horizontal)	20"	500 mm
Y axis course (vertical)	11.5"	290 mm
Z axis course (transverse)	12"	300 mm
X axis speed (horizontal)	98'/min	30 m/min
Y axis speed (vertical)	49'/min	15 m/min
Z axis speed (transverse)	49'/min	15 m/min
A axis speed (clamping tool)	650 Rpm	650 Rpm
B axis speed (electro spindle holder)	30 Rpm	30 Rpm
B axis course (electro spindle holder)	-15 / +180 deg	-15 / +180 deg
Electro spindle power	10 to 25 KW	10 to 25 KW
Electro spindle maximum speed	12000 to 20000 Rpm	12000 to 20000 Rpm
Wheels attachment	HSK40, HSK50, HSK63	HSK40, HSK50, HSK63
Dimension with robot	114" x 114" x 87"	2900 x 2898 x 2200 mm
Dimension without robot		2900 x 2150 x 2200 mm
Total weight	14,330 lbs	6500 kg

Accuracy

Axes X, Y, Z axis	.0000039	0,0001 mm
Axes A, B axis	.0001 deg	0,0001 deg



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CA7 EVO BOOST Broach Grinder

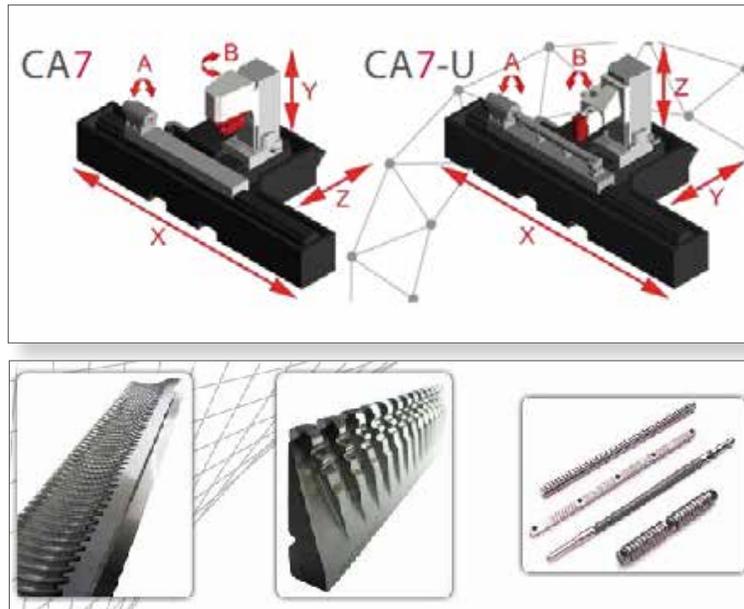


CA7 EvoBoost is the latest grinding machine stamped "Broach Expert" designed and manufactured by SMP TECHNIK. Equipped with a 1700 mm length table, with a large selection of accessories, a powerful electro-spindle and a «Full Option» software, it is perfect for manufacturing all of your tools regardless of their size. Moreover, its compact dimensions make it the perfect tool in workshops where every centimeter counts.

Highlights:

- ✓ **Axes X,Y, Z accurate within +/- .000004" (0.0001 mm)** → Resulting in high precision tools
- ✓ **6 slots grinding wheels rack loader** → Unload/load a wheel in less than 5 seconds
- ✓ **SA50 work piece holder** → Developing a high speed of 650 rpm
- ✓ **67" (1700mm) long table** → Enough space to install necessary accessories
- ✓ **Mineral casting bed** → Vibration proof. 10 times the classic iron bed rigidity.
- ✓ **Ergonomics** → Control desk with an easy replaceable 22" touch screen

Technical Details



capacities

Maximum tool length (grinding)	67"	1700 mm
Maximum tool diameter	9.8"	250 mm
Maximum tool weight	441lbs	200 kg
Maximum wheel diameter (with HSK50 attachment)	11.8"	300 mm

Specifications

X axis course (horizontal)	59"	1500 mm
Y axis course (vertical)	13.7"	350 mm
Z axis course (transverse)	15.7"	400 mm
X axis speed (horizontal)	147'/min	45 m/min
Y axis speed (vertical)	98'/min	30 m/min
Z axis speed (transverse)	98'/min	30 m/min
A axis speed (clamping tool)	1500 Rpm	1500 Rpm
B axis speed (electro spindle holder)	30 Rpm	30 Rpm
B axis course (electro spindle holder)	-45/+180 deg	-45/+180 deg
Electro-spindle power	20 to 25 KW	20 to 25 KW
Electrospindle speed	12,000 to 20,000 Rpm	12,000 to 20,000 Rpm
Wheels attachment	HSK40, HSK50, HSK63	HSK40, HSK50, HSK63
Tool holder maximum speed (SA50)	Max. 650 Rpm	Max. 650 Rpm
Dimension	171" x 87" x 93"	4334 x 2205 x 2360 mm
Total weight	17,637 lbs	8000 kg

Options

- Wheel sensor
- Manual Tail-stock
- CNC control steady rest
- Mechanized or magnetic cradle
- HSK40, HSK50 or HSK63 Electro-Spindle
- Dressing-Rad
- Magnetic Table

Accuracy

Axes X, Y, Z axis	.0000039	0,0001 mm
Axes A, B axis	.0001 deg	0,0001 deg

CA7U Model

CA7U EVO BOOST has a different setup from the CA7 EVO boost which is dedicated to the broach grinding. Under this configuration, the electro-spindle is in a vertical position that gives a perfect vision of the grinding process by the operator during the cycle.

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Saw Working Tools

Circle saw leveling station

- + Easy height adjustable bench with hydraulic cylinder
- + Replaceable UHMW work surfaces
- + (2) 24" LED lights behind diffused screen
- + Standard slab sizes up to 30" - larger slabs available upon request
- + Slabs available in both mild steel and WW Nichrome Options



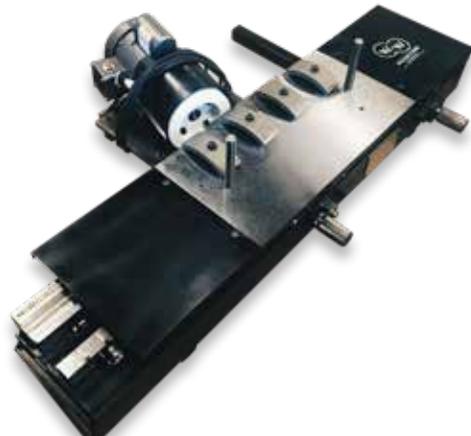
Leveling & hammering anvils

- + Precision ground
- + Anvils re-conditioning service available
- + All sizes of band or circular anvils available
- + Hard hammering pyramid anvils
- + Lazy susan type turntables and floor stands



Tension gauge grinder

- + 18" (457mm) and 24" (609mm) models available
- + 0-20' (0-6,096mm) radii
- + Heavy duty design
- + Manual operation
- + Grinds: Tension Gauges & Straight edges
- + Precision machined ways
- + Lubricated ways



Aluminum I-Beam straight edges

- + Aluminum construction
- + Light weight
- + Up to 20' in length
- + Two working surfaces
- + Excellent for line bar adjustment 0.001" / foot accuracy



Saw filing hammers

- + All types and weights of hammers
- + Cross face / dog head / twist face / combination
- + Precision balanced



Bandsaw shear

- + Hydraulic actuation
- + Replaceable shears
- + Super heavy duty



For a complete list of all of our saw working tools visit our website

Consumables & Accessories

Oil and water coolant

- + 970 NCL - Water Based coolant for Carbide Grinding
- + 971 Coolant - Water Based non-carbide grinding fluid
- + 972 Oil - Oil Based grinding fluid



Grinding wheels

- + Supplier of all grinding wheels for circular and band saw grinders
- + PCD and CBN super abrasives
- + Standard abrasives available



Rolls - dies & regrinds

- + Only supplier of Thru-hardened rolls for all types of stretcher rolls (ie Williams and White, Armstrong, Hanchett, Vollmer, Iseli, Simonds)
- + Precision regrind service for all brands
- + Conversion kits available for Dish-O-Matic (DOM 1 & 2)





Product list

Machines

- CNC Guide Dresser (GD_X)
- RoboSharp saw sharpening center
- Dish-o-Matic circular saw stretcher roll
- 36X2 automated tension roller
- Round Saw Center (RSC)
- Top & Face Grinder (TFH-CS2 pro)
- Top & face Grinder (TFX)
- Dual Side Grinder (DFX-5)
- Dual side Grinder (DSG)
- H50 Ultimate Brazer (automatic brazing)
- H55 Ultimate Brazer (automatic brazing)
- H65 Ultimate Brazer (automatic brazing)
- HM Ultimate Brazer (manual brazing)
- T50 Pro Braze Tester
- Trac Tru band saw bench
- Standard bench
- Shark 3000 CNC profile grinder
- Shark 600 profile grinder
- Baracuda 750 side dresser
- Stingray (band saw tipper)
- Auto swage
- CA5 Tool Grinder
- CA7 Evo Boost Broach Geinder
- Sure Sharp HewSaw Knife grinder (CKG/EKG)
- LSGX magnetic flat bed knife/surface grinder
- Dish-O-Matic band saw stretcher roll

Saw Guides & Accessories

- Circular saw guides
- Band saw guides
- Babbitt mold machine
- Babbitt mold plates
- Babbitt
- Splines, arbors, Sleeves
- SawSense Temperature System
- Saw-ADD Smart Band Saw & Arbor

Filing Equipment

- Replacement rolls (W&W, Armstrong, Hanchett, Proctor etc)
- Anvils and slabs
- Turn tables
- Tipping plate
- Strobe brazing fixture
- Hammers (cross face, twist face, combination & doghead 1-10lb)
- Tension gauges/straight edges
- Tension gauge/straight edge grinder
- Grinding wheels
- Bandsaw welding clamps
- Indicators & gauge kits
- Coolant
- Aluminum I beam straight edges
- Circle saw leveling station
- Band saw shear
- Round saw bench
- Mig welder
- Gullet crimper
- Gummer
- Post grinder

Services

- Stretcher roll regrinding/resurfacing
- Anvil rinding/resurfacing
- Saw guide repair
- Saw guide engineering/design
- Straight edge grinding
- Machine rebuild/repair
- General machining/parts inspection

Notes



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