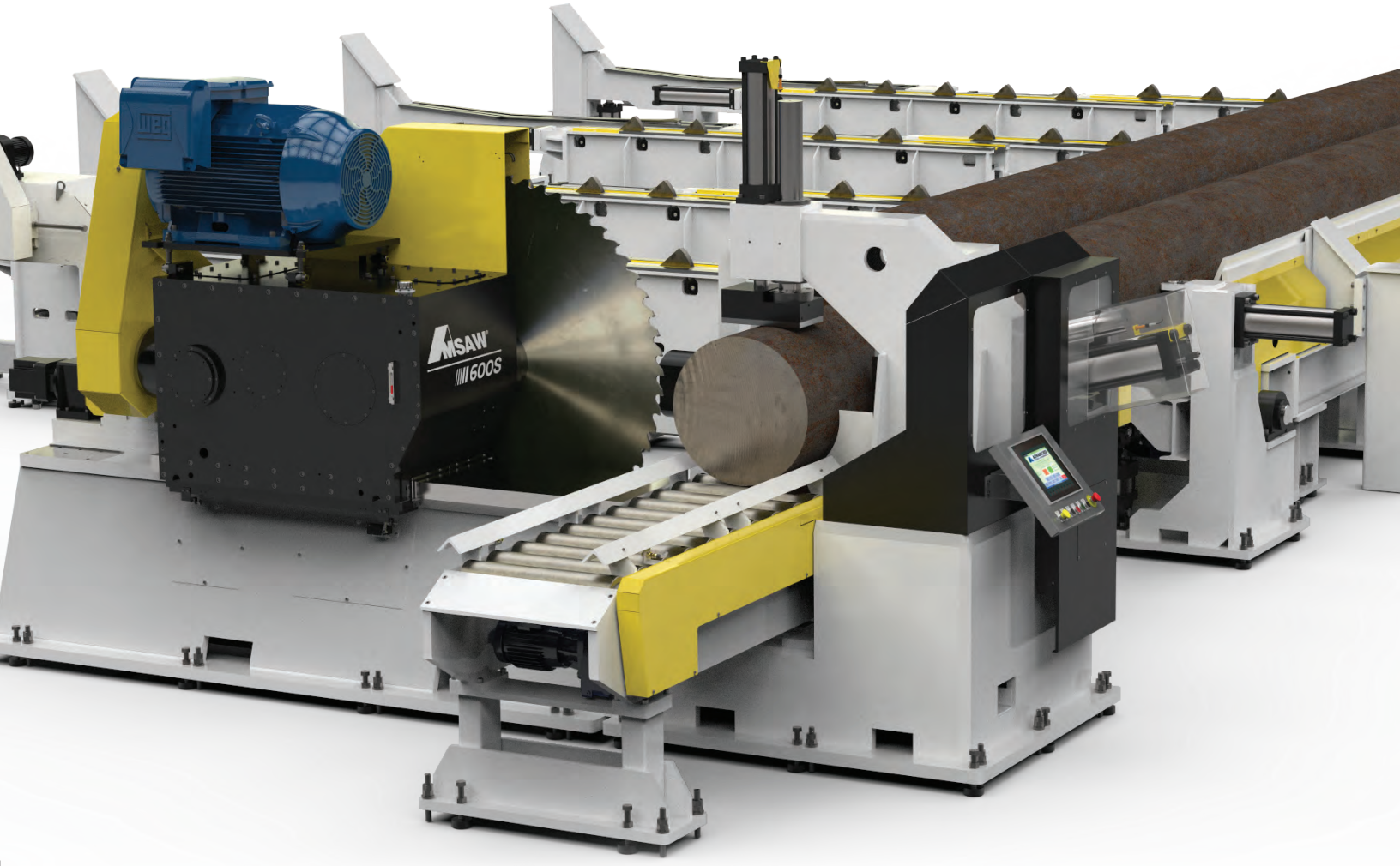
AMSAW®

THE PIONEERS IN CARBIDE SAWING

INTRODUCING THE HEAVY DUTY AMSAW® S-SERIES

FLEXIBLE | FAST | PRODUCTIVE



www.amsaw.com

AMSAW S-SERIES

HIGH PRODUCTION SAWING UP TO 760mm/30" STOCK SIZE

HEAVY DUTY, LARGE SLIDE SAWS

Simple, sturdy designs use 3-D modeling to maximize Amsaw's machine stiffness to reduce vibration. Amsaw incorporates heavy duty steel weldments - which are ribbed and braced based on FEA vibration analyzation and filled with vibration absorbing compound - to improve tool life.

Also included in Amsaw's design are hardened and ground box ways, hardened and ground precision gears with minimum play, multiple patented anti-friction blade stabilizers. A compact and simplified blade mount allows for quick blade change. Many options available for custom systems and customer specifications.

COMPLETE SAW SHOPS

For companies in remote locations AMSAW offers simple, sophisticated circular carbide saw blade repair machines.

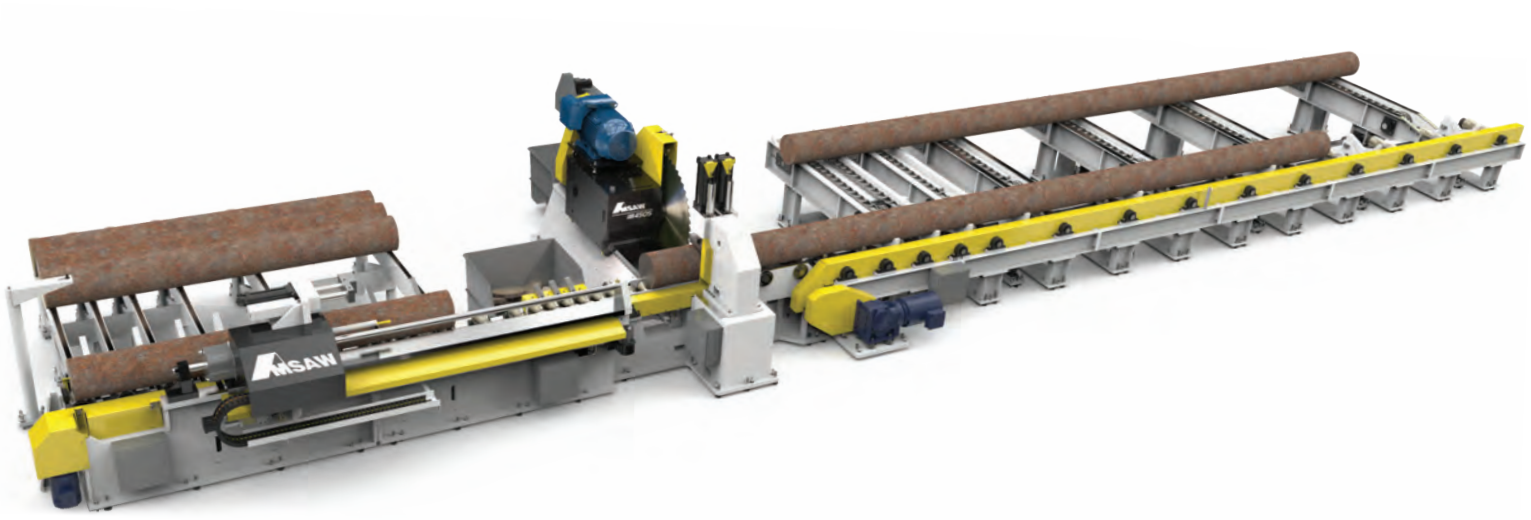
In addition to blade repair machines, Amsaw is able to train your staff on how to use the machine so repairing and resharpening circular saw blades on-site is quick and easy.

AMSAW 350 MAX BILLET SIZE 350 MM (14")
Inclined, heavy duty saw designed for hard alloy steel and rails, pipes, tubes, or bars.

AMSAW 450 MAX BILLET SIZE 450MM (18")
Horizontal, heavy duty, carbide slide saw for hard alloy steel.

AMSAW 760 MAX BILLET SIZE 760 MM (30")
Complete with 1,000 mm (40") automatic measuring unit and Hennig chip conveyor.

AMSAW OPTIONS & TURNKEY SOLUTIONS



EXIT OPTIONS

- Long bar unloading table
- Pick and place units with steel link conveyor to selectively unload in preselected bins
- Weigh stations
- Robot stacking
- Custom systems to suit unique customer requirements

STANDARD SAWS

- Several sizes of PLC-controlled basic saws to suit billet sizes with different bar length measuring
- Systems to suit customer's requirements with vertical and horizontal heavy-duty fixtures and optional measuring for high production, cost efficient sawing

LOAD TABLE OPTIONS

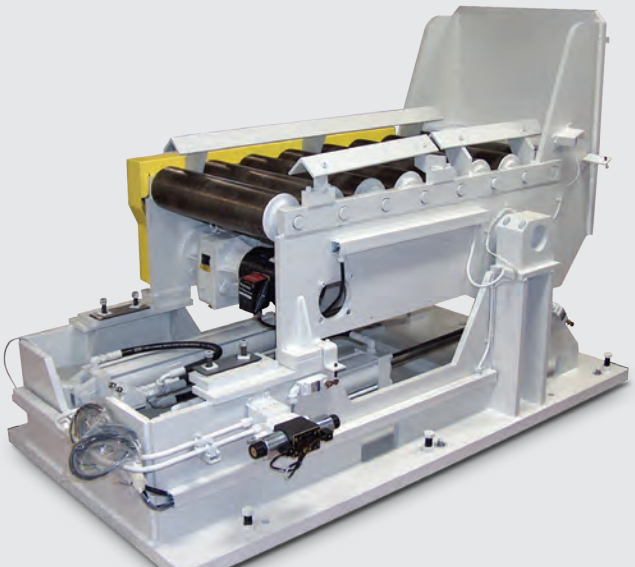
- Heavy duty units to suit customer's requirements
- Flexible arrangement available for different floor plans

MATERIAL HANDLING SYSTEMS

Custom handling systems with billet elevator designed for pipes, profiles, and billets up to 760mm (30") stock sizes.

MATERIAL UPENDER

Designed to tip the material to a vertical position



THE PIONEERS IN CARBIDE SAWING

AMSAW V SERIES (VERTICAL LAYER SAWS)

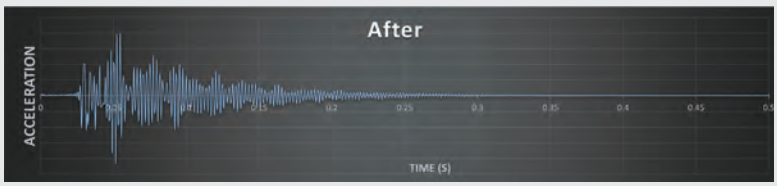
Material Sizes	Layer Widths	Solid Material
25mm - 250mm	600mm - 1600mm	up to 650 mm

ADVANCED SAWING TECHNOLOGY OFFERS UNIQUE SOLUTIONS

- Simple design allows for easy access while maintaining rigid construction.
- Utilizes a smaller diameter blade to lessen the cost per cut.
- User friendly automatic PLC controls.
- Material separation when retracting blade.
- Less than 5 minute blade/accessory change.
- Extremely short trim cut and remnant scrap ends.
- Automatic sorting of different cutoff lengths into selective bins.
- Less than 1.5 minutes of cut time for a 350mm (14") alloy steel billet due to patented vibration dampening methods.
- Standard and special machines for the general Industry.
- Saws for the non-ferrous industry.
- Complete turnkey systems with total responsibility for machines and tools.
- Standard and special carbide saw blades.
- Resharpening of used carbide saw blades.
- Re-engineering and rebuilding of old saws, machines, and equipment.
- Custom options based on customer specifications and unique requirements.

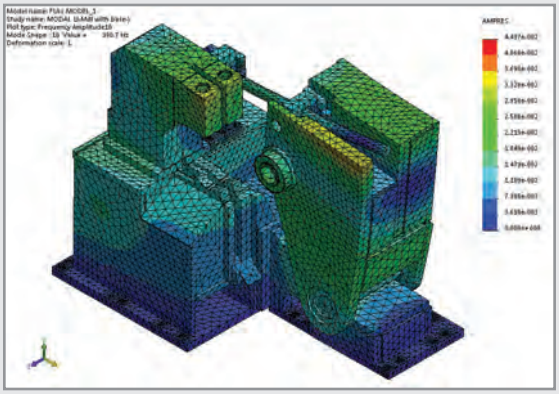
VIBRATION ANALYSIS WITH 4-CHANNEL DATA ACQUISITION

↑ Normal welded base



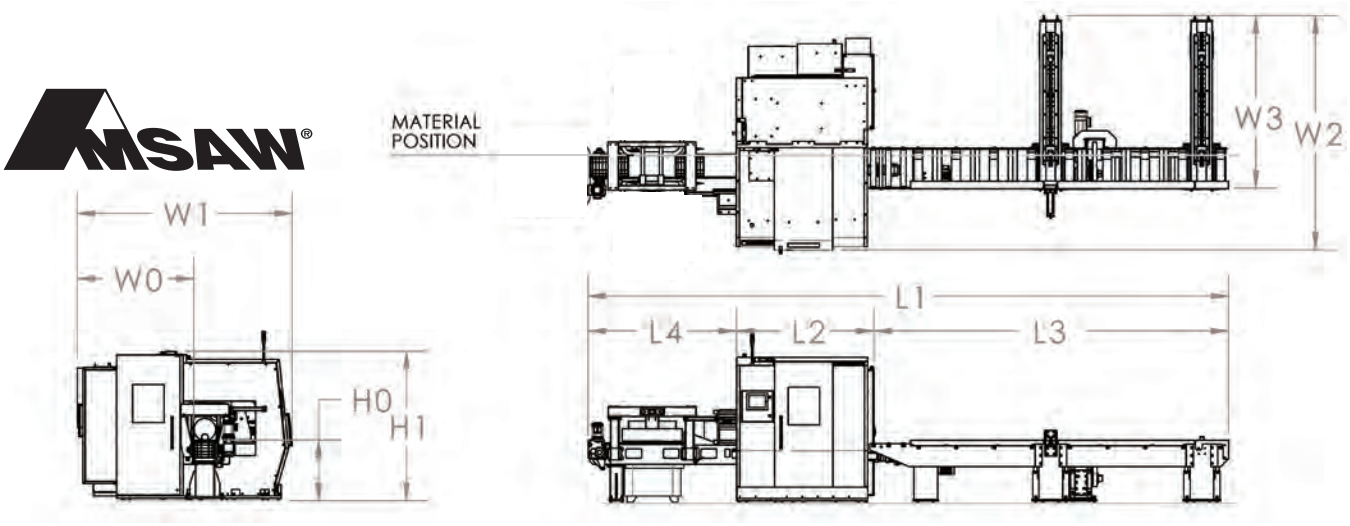
↑ AMSAW welded base filled with vibration absorbing compound.

FINITE ELEMENT ANALYSIS (FEA)



FEA performed on all machine designs to ensure stiff, vibration dampening machine structures and maximum tool life.

SPECIFICATIONS FOR STANDARD AMSAW S-SERIES



	SPECIFICATION	AMS 350S	AMS 450S	AMS 600S	AMS 760S
Cutting Capacity	Round & Square Stock - mm (“)	125 (5.0) - 350 (14)	200 (8) - 450 (18)	250 (10) - 600 (24)	350 (14) - 760 (30)
	Stock Bar Length Max. - m (ft.)	6.0 (20)	6.0 (20)	6.0 (20)	6.0 (20)
	Cutoff Length - mm (“)	16 (0.75) - 1000 (39.4)	25 (1.0) - 1000 (39.4)	50 (2) - 1000 (39.4)	50 (2) - 1000 (39.4)
	Remnant End Length - mm (“)	38 (1.5)	75 (3)	75 (3)	75 (3)
Circular Saw Blade Carbide/Cermet Tipped	Min. blade diameter - mm (“)	710 (28)	915 (36)	1015 (40)	1285 (50)
	Max. blade diameter - mm (“)	1120 (44)	1420 (56)	1730 (68)	2000 (80)
	Blade pilot diameter - mm (“)	140 (5.500)	140 (5.500)	140 (5.500)	140 (5.500)
	(2) Drive pins diameter - mm (“)	25.4 (1.000)	25.4 (1.000)	25.4 (1.000)	30 (1.04)
	Drive pins placement diameter - mm (“)	196.85 (7.750)	228.6 (9.00)	228.6 (9.00)	228.6 (9.00)
Cutting Information	Surface speed variable by inverter m/min (ft/min)	35 - 180 (100 - 600)	35 - 180 (100 - 600)	35 - 180 (100 - 600)	35 - 180 (100 - 600)
	Feed rate by servo driven ball screw** mm/min (“/min)	0-600 (0 - 25)	0 - 546 (0 - 21)	0 - 546 (0 - 21)	0 - 546 (0 - 21)
Bar Feed (Indexing)	Max feed rate forward - m/min (“/min)	20 (790)	20 (790)	20 (790)	20 (790)
	Repeatability - mm (“)	0.07 (0.003)	0.1 (0.004)	0.1 (0.004)	0.1 (0.004)
Opt. min. coolant	Micromist tank capacity - liter (oz)	0.23 (8)	0.23 (8)	0.23 (8)	0.23 (8)
Saw Motor	kW / HP / RPM	55 / 75 / 1750	112 / 150 / 1750	150 / 200 / 1750	150 / 200 / 1750
Hydraulics	kW / HP / bar (PSI)	7.5 / 10 / 103 (1500)	11 / 15 / 103 (1500)	11 / 15 / 103 (1500)	11 / 15 / 103 (1500)
	Tank capacity - liter (gal)	150 (40)	150 (40)	150 (40)	225 (60)
Electricals	Power Supply - V / Phase / Hz (USA)	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60	480 / 3 / 60
Floor Space Machine	Feed roller height H0 - m (ft)	1.0 (3.3)	1.0 (3.3)	1.0 (3.3)	1.0 (3.3)
	Machine height H1 - m (ft)	2.4 (7.9)	3 (9.85)	2.4 (7.9)	To suit customer’s requirements
	Total length L1 - m (ft)	9.6 (31.5)	24 (78.75)	10.3 (33.8)	
	Machine length L2 - m (ft)	1.5 (5)	2.5 (8.2)	2.2 (7.2)	
	Load table length L3 - m (ft)	5.7 (18.7)	14.6 (48)	5.7 (18.7)	
	Exit conveyor length L4 - m (ft)	2.4 (7.9)	7 (23)	2.4 (7.9)	
	Material position W0 - m (ft)	.75 (2.5)	1 (3.3)	1.8 (5.9)	
	Machine width W1 - m (ft)	3 (9.85)	5 (16.5)	3.5 (11.4)	
	Total width W2 - m (ft)	5 (16.5)	4.5 (14.75)	11.25 (37)	
	Load table width W3 - m (ft)	3.3 (10.7)	3.875 (12.7)	10 (32.8)	
Weight (Approx)	Machine - kg (lbs)	11235 (24800)	16853 (37150)	25279 (55730)	30000 (66000)
	Load Table - kg (lbs)	3173 (6980)	4760 (10500)	7140 (15740)	10000 (22200)
Accessories	Front blade stabilizer, material size verification, Standard PLC control system, Touch screen HMI, Servo Motor & Ball Screw for Indexing and for Saw head feeding, Variable Blade-Speed by Inverter, Blade Cleaning Wire Brush, Blade Stabilizer 180° and 90°, Auto Lubrication System Hydraulic Clamping arrangement, Multi-Indexing				
Options	Lift roller, bent bar mechanism, load table, chip conveyor, exit conveyor, pick and place assembly, mist collector				

AMSAW® Metalcut SPEEDCUT REMAC WAGNER Ersatzteilversorgung GmbH WAGNER Bandsägen

YOUR MATERIALS + YOUR SPECIFICATIONS + OUR INNOVATIONS =

OUR TURNKEY, CUSTOMIZED SOLUTION

AMSAW® 350

Special saw equipped with rotary fixture to quickly saw out (4) corner sections of valve bodies, instead of a time consuming milling process.

AMSAW® 300

Heavy duty pivot saw to cut hot rail car axles.

AMSAW® 350

Heavy duty pivot saw to cut alloy rails.

AMSAW® 250

Special dual rail saw for field service, mounted to rail car.

AMSAW® DRILL

Heavy rail drill and chamfer machine for processing hard, alloy rails.

WAGNER BANDSAWS

Wagner standard and custom bandsaws.

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ISO-9001 REGISTERED

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