



S-GENIUS CS 16-16

FULLY AUTOMATIC SERVO FEEDING
AND CUTTING SYSTEM





BENEFITS OF RMT S-GENIUS CS 16-16 BANDSAWS

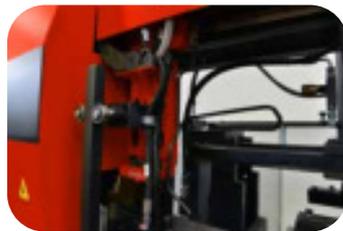
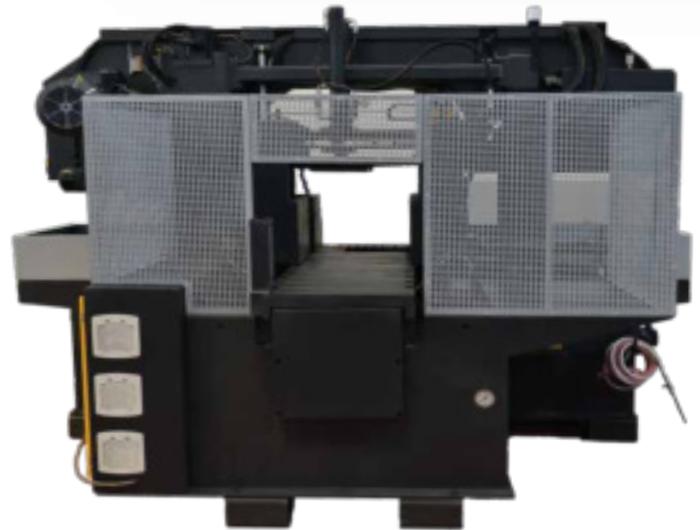
The fully automatic S-GENIUS CS 16-16 is optimized to work with carbide and bimetal blades and can be applied in areas such as steel trade, steel production, forging mills, machine manufacturing and automotive industry.

The CNC SMART cutting feature with ball screw spindle driven by servo motor reduces cutting tolerance almost to zero with its servo feeding system. The smart cutting feature makes cutting the most efficient by determining optimal parameters based on type and size of material in order to match the type of blade being used.

These optimal cutting parameters reduce tool costs and leave the best surface.



HIGH EFFICIENT BANDSAWS



S-GENIUS CS 16-16		Metric	US
Capacity at 0°	Round	420 mm	16.5" in
	Flat (H x W)	420 x 420 mm	16.5" x 16.5" in
	Square	420 x 420 mm	16.5" x 16.5" in
Cutting Speeds		15-120 m/min	49-394 ft/min
Band Dims.		5750 x 41 mm	226" x 1.6" in
Main Motor		7.5 kW	10 HP
Hydraulic Motor		1.1 kW	1.5 HP
Coolant Motor		.2 kW	.27 HP
Chip Conveyor Motor		.25 kW	.34 HP
Servo Motor		1.5 kW	2 HP
Bow Lifting Motor		1.5 kW	2 HP
Weight		3300 kg	7275 lbs
Machine Dims.	Length	2860 mm	113" in
	Width	1980 mm	78" in
	Height	2100 mm	83" in



STANDARD FEATURES



PLC CONTROL PANEL AND SMART SOFTWARE

Changes in cutting lengths can be programmed without making adjustments on the machine while it is operating, thanks to this software. It allows the user to save up to 50 different programs with 100 cutting steps.



SERVO FEEDING HEAD + SERVO FEEDING VISE SYSTEM

With excellent precision, this movable vise feeds the material. Individual feeding stroke is 28" but multiple stroke feeding up to 40' is possible. Feeding tolerance is +/- 0.004". Tighter tolerance is possible - please consult RMT for your desired application.



DEFLECTION CONTROL

Deflection sensor is the best way to detect if a blade's life span is over. Operator can enter the desired minimum and maximum value of cutting tolerances then the machine will give warnings when in the risk area. Once in that risk area, the machine will stop, which helps customer to not lose any material due to incorrect cuts.



PLANETARY GEARBOX

Planetary gearboxes work at high torques and have high power density for high efficiency.



CHIP CONVEYOR AND CHIP BRUSH

Our auger style chip conveyor carefully removes the chips up and out of the way depositing them into a receptacle on wheels for easy removal.

The Chip Brush is motorized to help keep every tooth gap free and clear so every tooth can bite and deeply and efficiently as possible.



AUTOMATIC HYDRAULIC BLADE TENSION

This feature comes with a hydraulic cylinder that carries out blade tensioning automatically. The cylinder adds tension to the blade until it reaches a prefixed value, while always maintaining correct blade tensioning. Furthermore, it adjusts and applies optimal tension during cutting process.

SOME OPTIONAL FEATURES



HYDRAULIC TOP CLAMPING

Hydraulic top clamping is used for cutting bundles in order to clamp them from 4 sides. It works in synchronization with fixed vices.



QUICKER AND LONGER TRAVELING VICE FEEDING SYSTEM

Up to 120" feeding per stroke



HEXAGONAL VICES

Hexagonal vices are suitable for tube bundle cutting. It fixes tubes together and prevents vibration during cutting.



ROLLER TABLE AT ANY LENGTH FOR IN-FEED AND OUT-FEED

The roller table comes in both motorized and non-motorized and can be used for both in-feed and out-feed. Both are industrial strength built for really heavy jobs, at least one motorized table is suggested to help load long pieces or bundles into the saw. This will increase your production speeds as well as increase the efficiency of your feeding system.



MICROSPRAY COOLANT

Microspray is used for cutting tubes and profiles which have thin wall.



DROPSA

High performance and near dry processing for tubes and solids.



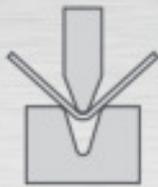
Hydraulic Presses



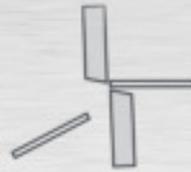
Fiber Lasers



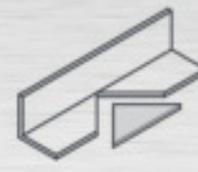
PSM Pipe Lathe



Press Brakes



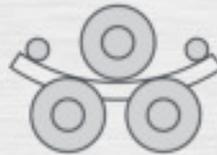
Shears



Ironworkers



Plate Rolls



Angle Rolls



Bandsaws



Dishing Presses



Flanging Machines



Drilling Machines

"If you need a machine and don't buy it, you'll find that you have paid for it anyway, but don't have it."

Henry Ford

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