



## S-GENIUS CS 22-23 CNC

FULLY AUTOMATIC, SERVO, COLUMN  
TYPE, STRAIGHT CUTTING BANDSAW





# BENEFITS OF RMT S-GENIUS CS 22-23 CNC BANDSAWS

The S-GENIUS CS 22-23 CNC is designed to maximize production of heavy metal, profile and pipe cuts in high volume units with a fully automatic servo feeding and cutting system.

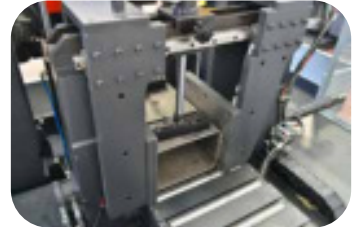
Automatic controls and sensor maximizes performance/cost ratio and extends lifetime of blade up to 50% longer.

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 cutting parameters are CNC controlled for an optimal processing of workpiece.



# HIGH EFFICIENT BANDSAWS



S-GENIUS CS 22-23 CNC		Metric	US
Capacity at 0°	Round	570 mm	22.4" in
	Flat (H x W)	570 x 600 mm	22.4" x 23.6" in
	Square	570 mm	22.4" in
Cutting Speeds		20-153 m/min	65-500 ft/min
Band Dims.		7400 x 54 mm	291.3" x 2.12" in
Main Motor		15 kW	20 HP
Hydraulic Motor		1.1 kW	1.5 HP
Coolant Motor		.12 kW	.16 HP
Chip Conveyor Motor		.25 kW	.33 HP
Servo Motor		1.5 kW	2 HP
Material Feeding Servo Motor		2 kW	2.68 HP
Weight		5250 kg	11574 lbs
Machine Dims.	Length	3500 mm	138" in
	Width	2000 mm	79" in
	Height	2700 mm	107" in



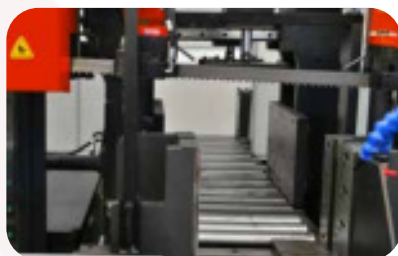


# STANDARD FEATURES



## PLC CONTROL PANEL AND SMART SOFTWARE

User friendly and easy to use interface with next generation PLC and HMI infrastructure, compatible with Industry 4.0. It has the ability of saving up to 50 different programs with 100 cutting steps. Moreover, when you select the type of material it calculates cutting speeds accordingly.



## 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 VISE FEEDING SYSTEM

Up to 120" feeding per stroke

## HIGHER HP MOTOR

Higher HP main motor, up to 20 HP



## HEXAGONAL VISES

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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