



COLD SAWS

FAB, SMART & GENIUS SERIES





Some of the Revolution Machine Tools Team

ABOUT REVOLUTION MACHINE TOOLS

Revolution Machine Tools (RMT), founded by long time industry leader Kyle Jorgenson, is a metal fabrication machine tools company. RMT's design team has created the most innovative and precise tools in the North American market today. We are partners with leading manufacturers who build our designs to our stringent specifications in state of the art manufacturing facilities.

Kyle Jorgenson started in the Machine Tool industry working with his father, Roger Jorgenson, who founded Jorgenson Machine Tools in 1974. Roger taught Kyle how important relationships and customer service are, and Kyle has built his reputation on those principles. Revolution Machine Tools is supported by an ever expanding team of industry professionals, which include design, marketing, service and support, who have these same values and respect Kyle's vision. Together, they are creating a revolution in the Machine Tool industry.

RMT's main focus is in large cutting, forming, and rolling machines for the metal fabrication industry. RMT's research and development team has created the most innovative, fast, durable and accurate machines in the industry. Our machines are all backed by a strong warranty and an outstanding service team dedicated to keeping your machines operational. We understand the time value of money and how expensive downtime can be.





KYLE JORGENSON / President

RMT offers several innovative machines including Fiber Lasers, Press Brakes, Plate Rolls, Ironworkers, Angle Rolls, Shears, Structural Steel Drills, Band Saws, Hydraulic Presses, Pipe Threading and Beveling, and much more. All RMT product designs are built for durability, precision, repeatability, and speed.

PRE-SALE CONSULTATION

RMT's commitment to service begins with our site assessment consultation. Before we even discuss purchasing equipment we make an assessment of your production area to determine whether the equipment will work well in your manufacturing environment. We look at where the equipment will be placed on the production floor, how it will be brought into the facility, and even ways to make the disposal of scrap and waste easier to remove. We will also recommend the proper installation of our equipment, or we can even come install it for you. More importantly, we can verify adequate electrical, pneumatic or hydraulic requirements and we look at the surrounding equipment to assess if there are any electro-magnetic or vibration interference issues.



REVOLUTIONARY SERVICE

QUALIFIED SERVICE TECHNICIANS

Join the Revolution with service technicians from Revolution Machine Tools that can maintain, troubleshoot and fix your machines. Our goal at RMT is to ensure our customers experience smooth operations and greater return on investment by having their machines repaired and maintained by qualified personnel who are committed to the customer's success.

The service team at Revolution Machine Tools is experienced and able to diagnose, repair and install your equipment when you need it. We know that you can't wait for days or weeks to keep your production deadlines, and we are committed to minimizing your downtime and keeping your manufacturing processes moving forward.

PREVENTATIVE MAINTENANCE PROGRAM

Keeping your machines operating at their peak performance is key to successful manufacturing. At Revolution Machine Tools, we have the right preventative maintenance plan to fit your needs; thus, keeping your machines performing at their most efficient levels.



Our service technicians will create the perfect preventative maintenance plan for you. They will evaluate your machines and provide you with a customized maintenance plan. Each plan will include general maintenance, safety evaluations, suggested repairs and part replacement.

SERVICE WHEN YOU NEED IT

You can count on Revolution Machine Tools to be there when you need them. How many times have you needed customer service for a machine breakdown? Each and every breakdown equates to a loss in opportunity cost and profit. At Revolution Machine Tools, we are committed to making sure you get the most out of your equipment, and when it does breakdown, providing repair services in a timely manner.

So, if you are in need of a troubleshooting or repair, you can reach a service technician by phone or email and we will strive to respond quickly. You don't need help in two days, you need it now. You can count on Revolution Machine Tools because we are committed to getting you up and running when and where you need us.



PARTS & TOOLING



SUPERIOR PARTS AND TOOLING

Every machine used in the chipping, fabrication and forming of metal has consumables and tooling to keep them performing efficiently. These consumables and tools range from hydraulic oil, laser nozzle tips, replacement parts, software and more. Making sure you have the right products to take care of your machines is what we at Revolution Machine Tools specialize in. We stock the highest grade consumables, replacement parts and tooling to fit your needs; and, if on the rare occasion we don't have the part, we most likely know where to find it.

Our parts and tooling department is constantly looking for ways to maximize the potential of your machines. Specialized tooling can be ordered and shipped to your location. We have qualified customer service representatives who can help you find solutions and answers to your manufacturing needs.

Revolution Machine Tools and its staff are committed to providing you the most effective service possible. We encourage you to call, even if we don't carry your brand of machine, and see if we can support you in making sure you have the right parts and tooling to fulfill your production goals and needs.



Talip, Parts and Tooling Manager

REPLACEMENT PARTS AND ACCESSORIES



REPLACEMENT BLADES



LUBRICATION



MACHINE PARTS



BENEFITS OF RMT HEAVY DUTY SEMI-AUTOMATIC COLD SAWS

RMT has designed and produced a semi-automatic heavy duty circular cold saw for fast cutting various sizes of metal pipes. These cold saws have high production rates and are ideal for short batch runs.

S-FAB CLD Series



S-FAB CLD SERIES BENEFITS



HEAVY DUTY CUTTING HEAD

Casting heavy duty cutting head powered by electrical motor transfer rotation from motor to saw with high quality accurate processed worn and helical gears.



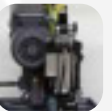
V-TYPE SELF-CENTERING VICE

Starting in the center of the material, the workpiece is stabilized during the clamping process. V-type self centering clamping consists of grinded vice parts, casting jaws and parts, adjustable wide vice opening and pneumatic clamping.



EASY MITER CUTTING

Miter cutting arm holds the cutting head always in the same position by locking the angle. After arm position is released, cutting head is able to turn ± 45 left to right. Desired cutting angle sets on the measured line then locked by operator just before cutting the new parts.



HYDRO-PNEUMATIC SYSTEM

High performance stable and burr-free cutting performance. Air-pneumatic system and hydraulic oil is completely separated from each other with cylinders. Saw head smooths descent for optimum cut.



CUTTING STROKE ADJUSTMENT

Precision cast heavy duty cutting head powered by electrical motor transfers rotation from the motor to the saw with high quality worm and helical gears.

The head consists of a saw motor, worn and helical gears, circular saw (optional), movable and fixed protection covers.



CUTTING STROKE ADJUSTMENT

All semi-automatic systems are equipped with a front oil flow valve to allow for on-the-fly cutting speed adjustments.



COUNTER-VARIABLE SPEED & ELECTRICAL REGULATIONS

Operator can keep track of the part count by checking the LCD display. This can help reduce extra work hours as well as excess scrap. The variable speed between 20-80 rpm allows you to optimize the cut for different materials and quality of materials.

All RMT equipment meets with CE regulations and an emergency stop is strategically placed for easy access if needed. The electrical system can also be integrated with a TX4 servo positioning stopper system and a high end PLC system.



CHIP BOX & COOLANT

Chips are collected in the scrap drawer and the coolant is recycled by the coolant pump. The drawer can be easily accessed for scrap removal.



FOOT PEDAL OPERATED

The semi-automatic foot pedal helps the operator be more efficient as its long cable allows for flexible working conditions.



S-FAB CLD Series



STANDARD




- Cutting speed adjustment
- Cutting stroke adjustment
- Counter-variable speed and electrical regulations
- Chip box and coolant
- Double mitering
- Foot pedal operated
- Heavy duty gearbox
- Cast iron basement
- Centralizing heavy duty split vice
- Coolant tank and electric pump for blade lubrication and cooling.

OPTIONAL

- Saw blade
- Mist coolant
- Custom cutting jaws
- Wash-down hose
- Roller tables
- Servo stopper table
- Laser cutting line



Technical Specifications

		S-FAB CLD10		S-FAB CLD12		S-FAB CLD14	
Maximum Saw Blade Size Ø		10"		12"		14"	
Head Swivel		90°	45°	90°	45°	90°	45°
Round		4"	2.75"	4"	3.5"	4.5"	4.3"
Square		2.75" x 2.75"	2.36" x 2.36"	3.35" x 3.35"	3.15" x 3.15"	4" x 4"	3.5" x 3.5"
Rectangle		4.7" x 2.35"	3.5" x 2.35"	4.7" x 2.35"	3.5" x 2.35"	4.8" x 3.15"	3.5" x 3.5"
Main Voltage		220 V 3 Ph 60 Hz		220 V 3 Ph 60 Hz		220 V 3 Ph 60 Hz	
Control Voltage		24 V		24 V		24 V	
Nominal Current		4.7 A		5.58 A		5.58 A	
Power		2.5 HP		3 HP		3 HP	
Motor Power		1.75 - 2.5HP		2.4 - 3HP		3 HP	
Coolant Pump Motor		0.08 HP		0.08 HP		0.08 HP	
Air Pressure (Consumption)		6 bar (240 L/min)		6 bar (240 L/min)		6 bar (240 L/min)	
Blade Speed		20 - 80 RPM		20 - 80 RPM		20 - 80 RPM	
Head Swivel		90° +/- 45°		90° +/- 45°		90° +/- 45°	
Saw Blade Size	Diameter	10"		12"		14"	
	Bore	1.25"		1.25"		1.25"	
	Pin Holes	08" x Ø.45"/Pivot center Ø 2.5"		08" x Ø.45"/Pivot center Ø 2.5"		08" x Ø.45"/Pivot center Ø 2.5"	
Machine Dimensions (LxWxH)		40" x 23" x 55"		40" x 23" x 55"		40" x 23" x 55"	
Packing Dimensions (LxWxH)		47" x 30" x 67"		47" x 30" x 67"		47" x 30" x 67"	
Net Weight		530 lbs		640 lbs		600 lbs	
Gross Weight		575 lbs		685 lbs		700 lbs	

Due to ongoing product development, machine specification can change at any time



BENEFITS OF RMT AUTOMATIC SERVO FEED COLD SAWS

Mass production in continuous operation is done by S-SMART HSC Series Cold Saws, when producing cut-off pieces of steel and non-ferrous metals. They are designed to be used with TCT (Carbide Tipped) circular saw blade in order to cut solid bars in high speed and excellent accuracy.

S-SMART HSC Series Cold Saws come standard with Servo Feeding Vice System and can be outfitted with optional 20 feet automatic feeding system/loader. These cold saws are for large scale production.

S-SMART HSC Series



S-SMART HSC SERIES BENEFITS



PRECISION CUTTING AND MATERIAL DELIVERY

The S-SMART HSC Series Cold Saw is designed to provide the most efficient stock and tube cutting possible in the metal industry today.

The saw comes standard with automatic clamping, adjustable blade stroke, material handling and output tray, and an enclosed cabinet. This machine is sure to increase your production in quantity, quality, and repeatability.



WORLD-CLASS ELECTRONICS AND CONTROLLERS

Revolution Machine Tools delivers quality machines that fulfill our customer's needs. To fulfill this philosophy, we employ the highest level of world-class controllers and electrical components. Thus, we help our clients maintain and increase quality production.



HIGH-END LUBRICATION SYSTEMS

Getting the most out of any machine is the goal of plant managers and business owners alike. That same philosophy is also shared with your partner here at Revolution Machine Tools; that is why we install lubricant systems designed to give you quality products while increasing the life cycle of your machine.



20' AUTOMATIC MATERIAL HANDLING TABLE (OPTIONAL)

Control your workflow with the optional twenty-foot automatic material handling table.

The table is designed for operation to load material being delivered to the RMT S-SMART HSC Series Cold Saw for cutting. This type of automation allows operators to focus on productivity and quality.

The perfect precision-cutting workhorse is the S-SMART HSC cold saw. This saw, paired with the automatic material handling table, will create increased productivity with greater part repeatability.



S-SMART HSC Series




STANDARD

- Easy use control panel
- Hydraulic vice system
- Inverter (variable speed cutting)
- Heavy duty gear box
- Automatic lubrication
- Full CNC batch cutting
- Chip conveyor
- Hydraulic clamp
- Speed controller
- Cover switch

OPTIONAL

- Microspray cooling
- 20ft automatic loading table
- Dropsa air/oil clean lubrication
- Longer automatic feeding systems
- Can be produced to customer requirements - infeeding, outfeeding, etc.
- Custom automation



 S-SMART HSC TECHNICAL SPECS		S-SMART HSC3		S-SMART HSC 4	
		Metric	US	Metric	US
Capacity at 0°	Feeding per Stroke	500 mm	31 inch	1000 mm	31 inch
	Round Capacity	20-80 mm	.8-3 inch	20-101 mm	.8-4 inch
	Vice Opening Max	85 mm	3.35 inch	110 mm	4.33 inch
Cutting Speeds		22-130 m/min	866-5118 I.P.M.	22-130 m/min	866-5119 I.P.M.
Blade Diameter		260-350 mm	10-14 inch	260-360 mm	10-14 inch
Main Motor		5.5 kW	7.5 HP	5.5 kW	7.5 HP
Hydraulic Motor		1.5 kW	2 HP	1.5 kW	2 HP
Coolant Motor		0.2 kW	0.3 HP	0.2 kW	0.3 HP
Feeder Servo Motor		1 kW	1.35 HP	1 kW	1.35 HP
Main Servo Motor		2 kW	2.75 HP	2 kW	2.75 HP
Chip Conveyor Motor		0.25 kW	0.4 HP	0.25 kW	0.4 HP
Weight		1425 Kg	3178 lbs	1900 kg	4237 lbs
Machine Dims.	Length	1600 mm	63 inch	2150 mm	85 inch
	Width	1700 mm	67 inch	2000 mm	79 inch
	Height	2100 mm	83 inch	2100 mm	83 inch

Due to ongoing product development, machine specification can change at any time



BENEFITS OF RMT AUTOMATIC SERVO FEED COLD SAWS

Mass production in continuous operation is done by S-GENIUS HSC Series Cold Saws, when producing cut-off pieces of steel and non-ferrous metals. They are designed to be used with TCT (Carbide Tipped) circular saw blade in order to cut solid bars in high speed and excellent accuracy.

It is also suitable for HSS blades to cut tubes. S-GENIUS HSC Series Cold Saws come standard with 31" index stroke servo feeding and 20 feet automatic feeding system/loader. These cold saws are for large scale production.

S-GENIUS HSC Series



S-GENIUS HSC SERIES BENEFITS



PRECISION CUTTING AND MATERIAL DELIVERY

The S-GENIUS HSC Series Cold Saw is designed to provide the most efficient stock and tube cutting possible in the metal industry today.

The saw comes standard with automatic clamping, adjustable blade stroke, material handling and output tray, and an enclosed cabinet. This machine is sure to increase your production in quantity, quality, and repeatability.



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S-GENIUS HSC Series



STANDARD

- Easy use control panel
- Hydraulic vice system
- Inverter (variable speed cutting)
- Heavy duty gear box
- Automatic lubrication
- Full CNC batch cutting
- Chip conveyor
- Hydraulic clamp
- Speed controller
- Cover switch
- 20ft automatic loading table

OPTIONAL

- Microspray cooling
- Dropsa air/oil clean lubrication
- Longer automatic feeding systems
- Can be produced to customer requirements - infeeding, outfeeding, etc.
- Custom automation



 S-GENIUS HSC TECHNICAL SPECS		S-GENIUS HSC4		S-GENIUS HSC 4.75		S-GENIUS HSC 6	
		Metric	US	Metric	US	Metric	US
Capacity at 0°	Feeding per Stroke	800 mm	31 inch	800 mm	31 inch	800 mm	31 inch
	Round Capacity	20-101 mm	.8-4 inch	37-130 mm	1.5-5 inch	45-153 mm	1.8-6 inch
	Vice Opening Max	120 mm	4.72 inch	145 mm	5.71 inch	165 mm	6.5 inch
Cutting Speeds		40-280 m/min	1575-11024 I.P.M.	40-200 m/min	1575-7874 I.P.M.	40-200 m/min	1575-8661 I.P.M.
Blade Diameter		360 mm	14 inch	425 mm	17 inch	460 mm	18 inch
Main Motor		15 kW	20 HP	15 kW	20 HP	15 kW	20 HP
Hydraulic Motor		2.2 kW	2.75 HP	2.2 kW	2.75 HP	2.2 kW	2.75 HP
Coolant Motor		0.5 kW	0.75 HP	0.5 kW	0.75 HP	0.5 kW	0.75 HP
Feeder Servo Motor		2 kW	2.75 HP	2 kW	2.75 HP	2 kW	2.75 HP
Main Servo Motor		2 kW	2.75 HP	2 kW	2.75 HP	2 kW	2.75 HP
Chip Conveyor Motor		0.25 kW	0.4 HP	0.25 kW	0.4 HP	0.25 kW	0.4 HP
Weight		3450 Kg	7694 Lbs	3850 Kg	8586 Lbs	4520 Kg	10080 Lbs
Machine Dims.	Length	2460 mm	97 inch	2560 mm	101 inch	2680 mm	106 inch
	Width	2610 mm	103 inch	2800 mm	110 inch	2850 mm	112 inch
	Height	2360 mm	93 inch	2450 mm	96 inch	2450 mm	96 inch

Due to ongoing product development, machine specification can change at any time



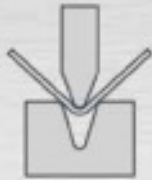
Hydraulic Presses



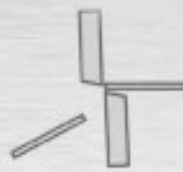
Fiber Lasers



PSM Pipe Lathe



Press Brakes



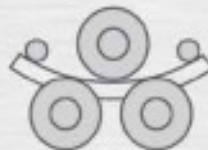
Shears



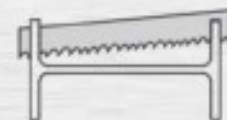
Ironworkers



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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