

PLATE ROLLS

ECO, SMART, GIANT, HYBRID SERIES





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.



PRE-SALE CONSULTATION

RMT's commitment to service begins with our site assessment consultation, before we even discuss purchasing equipment. We start by making an assessment of your

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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,

Kyle Jorgenson / President

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.

NON MACHIN



Atakan Nerminer / R&D Manager



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 gualified 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, keep-



ing 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.

> SERVICE HOTLINE 844-RMT-SERV (768-7378) SERVICE@RMTUS.COM



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.

REPLACEMENT PARTS AND ACCESSORIES



SWITCHES



GEARS AND BEARINGS

ELECTRICAL COMPONENTS

REVOLUTION MACHINE TOOLS, PARTS AND TOOLING: 844.768.4636 OR PARTS@RMTUS.COM 844-768-4636 / www.RMTUS.com 5



R-ECO SERIES



These initial pinch rolls are designed for small bending with low operation cost. R-ECO rolls feature robust cast iron frames (or steel welded frame depending on size), chain and gearbox drive systems and electric motors with a magnetic break which eliminates drifting. They also offer foot pedals with forward, reverse, and emergency stop along with a safety wire and limit switch. A very economical, reliable, and effecient choice for your small parts needs. See pages 10 - 15



R-ECO-A Series

Motorized Initial Pinch Three Roll

3' ~ 6' Bending lengths 2.67" ~ 2.95" Top roll diameter Up 14 Ga Capacity



R-ECO-B Series

Motorized Initial Pinch Three Roll 3' ~ 6' Bending lengths 3.54" ~ 3.93" Top roll diameter Up 10 Ga Capacity



R-ECO-C Series

Motorized Initial Pinch Three Roll 3' ~ 8' Bending lengths 4.33" ~ 5.51" Top roll diameter Up 5 Ga Capacity



R-ECO-D Series

Motorized Initial Pinch Three Roll 3' ~ 10' Bending lengths 5.90" ~ 8.66" Top roll diameter Up 3/8" Capacity

PLATE ROLL SERIES





R-SMART Series

Planetary Type Hydraulic Four Roll 4' ~ 14' Bending lengths 5.51" ~ 16.93" Top roll diameter 1/8" ~ 1-3/4" Capacity

The R-SMART series 4 Roll plate rolls are developed specifically for the most demanding applications. Achieve obtainable production speeds that have never been realized before.

Available with NC and CNC applications

See pages 28 - 31



R-GIANT Series

Rectilinear Type Hydraulic Four Roll 6' ~ 14' Bending lengths 18.11" ~ 29.92" Top roll diameter 3/4" ~ 3-1/2" Capacity

The R-GIANT series 4 Roll plate rolls are built for extreme precision and full CNC applications. These machines are built for production and speed, creating a perfect balance. These machines are the culmination of our many years of experience.

See pages 32 - 35

R-HYBRID Series

Planetary Type Hydraulic Three Roll 8' ~ 14' Bending lengths 13.77" ~ 26.77" Top roll diameter 3/8" ~ 3" Capacity

The R-HYBRID series are variable-geometry plate rolls, which really operates more like a press brake than a traditional plate roll, making such extreme rolling possible. The two lower rolls are very similar to adjustable V die, and the top roll can be operated like the ram of a press brake. Most suitable for medium and thick plate bending.

See pages 36 - 41



PLATE ROLL FEATURES

		R-ECO	R-SMART	R-GIANT	R-HYBRID
Bending Length Ra	nge	3'- 10'	4'-14'	6'-14'	8'-14'
Top Roll Diameter		2.67"-7.08"	5.51"-16.93"		13.77"-26.77"
Thickness Range		Up to 3/8"	Up to 1-3/4"		Up to 3"
Custom Lengths ar	nd Thickness	0	0	0	0
Obtainable Production Tolerances	Fine Excelient				
Part Geometries (without experienced operator)	Simple Moderate Complex	-			
Production Speed	Medium High				
	Digital Read-out	0	N/A	N/A	N/A
	PLC	N/A	S	S	S
Controls	NC	N/A	0	0	0
	CNC	N/A	0	0	N/A
Software	ESA Off-line Simulator (Available on CNC models)	N/A	0	0	N/A
Гионер	Cast Iron	S	N/A	N/A	N/A
Frame	Stress Relieved Steel Construction	N/A	S	S	S
	AISI 1050 Carbon Steel Rolls	S	S	S	S
	AISI 4140 High Strength Alloy Steel Rolls	0	0	0	0
Rolls	Induction hardening	0	N/A	N/A	N/A
	Induction hardening + Polish	0	S	S	S
	Induction hardening + Ground	0	0	0	0
	Electrical Motor + Gearbox (Top - Bottom Rolls)	S	N/A	N/A	N/A
Roll Drive System	Hydraulic Motor + Planetary Gearbox (Top Roll)	N/A	N/A	N/A	S
Roll Drive System	Hydraulic Motor + Planetary Gearbox (Top & Bottom Rolls)	N/A	S	S	N/A
	Hydraulic Motor + Planetary Gearbox (All Rolls)	N/A	0	0	N/A
	Manual Bottom & Side Roll	S	N/A	N/A	N/A
	Motorized Side Roll	0	N/A	N/A	N/A
Roll Positioning	Motorized Side Roll (Ø5.91" – Ø7.08")	S	N/A	N/A	N/A
System	Motorized Bottom Roll	0	N/A	N/A	N/A
	Hydraulically Acted with Electronically Positioned and Synchronized Bottom / Side Rolls	N/A	S	S	S

S = Standard / O = Option / N/A = Not Applicable



		R-ECO	R-SMART	R-GIANT	R-HYBRID
Safety	Safety Wire Around the Machine and Emergency Stop Button	S	S	S	S
Lubrication	Manual lubrication	S	S	S	S
Systems	Automatic central lubrication	N/A	0	0	0
Oil Cooler / Heater	Oil Cooler	N/A	0	0	0
	Oil Heater	N/A	0	0	0
Variable Speed	Variable Speed for Roll Rotation (Std. on CNC Control)	N/A	0	0	0
Special Color	Special Color	0	0	0	0
Air Conditioning	Air Conditioning for Electrical panel	N/A	0	0	0
Hydraulic Vertical	Preparation for vertical support system	N/A	0	0	0
Overhead Support	Vertical support - Hydraulic	N/A	0	0	0
Systems	NC inclusion for vertical support control (Available on CNC control)	N/A	N/A	0	N/A
	Preparation for side support system	N/A	0	0	0
Hydraulic Side Support Systems	Side Support System (Both Side)	N/A	0	0	0
	NC inclusion for side support control (Available on CNC control)	N/A	0	0	N/A
	Material Feeding Table - L=10'	N/A	0	0	0
Feeding Systems	Material Feeding Table - Motorized - L=10'	N/A	0	0	0

BENDING CAPACITIES AND CALCULATIONS

Our machines capacities are defined for (38Ksi) yield strength plates on multi-step bending. For different yield, length and thickness plates you can use "Bending Capacity Chart" on our website.

ELECT MACHINE		B-GENIUS 1	9-1299 -															3N	
ENDING LENGTH		12	2*														7.		1
		10'	2-			RN	ЛТ Р	late	Roll	Calc	ulat	tor					4		0
REBENDING CAPACITY		0,3		1			100					T						TON MA	CHIMP
OLLING CAPACITY		0,6	22.0	-		V	NW	w.rr	nti	IS.C	om								
OP ROLL DIAMETER	_	12,	1.2													22	2	1	
PLAII WIDTH		122" 10' 2" 100% Width		110" 9" 2" 90% Width		98" 8' 2 * 80% Width		85" 7' 1" 70% Width		73" 6'1" 60% Width		61" 5' 1" 50% Width		49* 4' 1 * 40% Witch		37* 3* 1 * 30% Widsh		24 210 20% V	D.~
MATERIAL TYPES	inside Diameter	Pre-Bending Thickness	Rolling Thickness	Pre-Bending Thickness	Rotling Thickness	Pre-bending Thickness	Rolling Thickness	Pre-Bending Thickness	Rolling	Pre-Bendling Thickness	Rolling Thickness	Pre-Bendling Thickness	Rolling Thickness	Pre-Bending Thickness	Rolling Thickness	Pre-Bending Thickness	Rolling Thickness	Pre-Bending Thickness	Rolling Thickness
	14,29*	0,343*	0,505"	0,362"	0,532"	0,364*	0,565*	0,410*	0,604*	0,443"	0,652*	0,486"	0,714*	0,543"	0,798*	WIT.	0,922"	1.12	
CLASS-1 MATERIAL	16,89*	0,384"	0,539"	0,405*	0,568*	0,429*	0,602*	0,459"	0,644"	0,495*	0,695"	0,543"	0,762*		0,852"		0,983"		
Max Yield Strength	19,49"	0,404*	0,560*	0,426*	0,590*	0,452*	0,626*	0,483*	0,669*	0,521"	0,723*	0.571"	0,792*	4117	0,885"	T WHEE		1.1	
207 30.000	25,98*	0,418"	0,576*	0,441*	0,640"	0,499*	0,679*	0,500*	0,588*	0,540*	0,748*	0,591"	0,814*		0.960.				
	51.97*	0.462*	0.641"	0.487*	0.676*	0.516*	0,717*	0.552*	0.766*	0.596*	0,827*		0.905*		0,500				
N/mm ^a PSi	64,96*	0.485"	0,673"	0,511"	0,710*	0,542"	0,753"	0,579"	0,805"		0,869*	1000	0,952*	1.00		1.000		11 Section	
	129,92*	0,493"	0,729"	0;519"	0,769"	0,551*	0,815"	0,589*	0,871*		0,941"								
	14,29*	0,319*	0,469*	0,836*	0,494*	0,356*	0,524*	0,381*	0,560*	0,412*	0,605*	0,451*	0,663*	0,504*	0,741"	0,582*	0,856"	1.44	1 (iiii
CLASS-2 MATERIAL	15,59"	0,356*	0,500"	0,376"	0,527-	0,398*	0,559*	0,426*	0,598*	0,460*	0,643*	0.504"	0,707*	0,563"	0,791"		0,913*		
Max Yield Strength	19,49*	0,375*	0,520*	0,395*	0,548*	0,419*	0,581*	0,448*	0,622*	0,484*	0,671*	0,530*	0,735*	0,593*	0,822*	11.000	0,949*	(and the	
	25.98"	0,388*	0,584*	0,4091	0,563*	0,434*	0,597*	0,464*	0,639"	0,501"	0,690"	0,549*	0,756*		0,845*		0,976*		
248 36.000	38,98*	0,414"	0,554*	0,437*	0,594*	0,463*	0,630*	0,495*	0,674*	0,535*	0,728*	0,586*	0,797*	1.00	0,891"	1000		1011	
	51,97*	0,429*	0,595"	0,452*	0,627"	0,479*	0,665"	0,512"	0,711~	0,553*	0,768+		0,841"		0,941"				
N/mm ⁺ PSi	64,96"	0,450*	0,625*	0,474*	0,659*	0,503*	0,699*	0,538*	0,747*	0,581*	0,807*	0.000	0,884*	<112	0,988*	1,017		: 1.000	
	129,92* 14.29*	0.458"	0,677"	0,482*	0,713"	0,512*	0,757*	0,547*	0,809*	0,591*	0,874*	0.376*	0,957*	0.421"	0.618"	0.486*	0.714*	0.595*	0.875*
CLASS-3	14,29"	0,265"	0,391"	0,280*	0,412"	0,297*	0,437	0,318"	0,467"	0,394*	0,505*	0,375"	0,553*	0,421*	0,618"	0,486"	0,714"	0,383	0,875*
MATERIAL Max Yie N Strength	19,49"	0,237	0,434"	0,310	0.457	0,350"	0,485"	0,555	0.519"	0,404"	0.560"	0.442"	0,590	0,495"	0.686"	0,571"	0,792"		0,935
max rest strength	25,98"	0,324"	0,446"	0,341"	0,470*	0,362*	0,498"	0,387*	0,533"	0,418"	0,576	0,458"	0,631"	0,512"	0,705*	0,591"	0,814"		0,997
	38,98"	0,346**	0,470*	0,364*	0,496*	0,387'	0,526*	0,413*	0,562*	0,446*	0,607	0,489*	0,665*	0,547*	0,744*		0,859*		
345 50.000	51,97"	0.358*	0,496"	0,377*	0,523*	0,400*	0,555*	0,427*	0,593*	0,462*	0,641"	0,506"	0,702*	0,565"	0,785*		0,906*		
all and a second se	64,96*	D,375"	0,521*	0,396*	0,550"	0,420*	0,583*	0,449*	0,623*	0,485*	0,673*	0,531*	0,737*	0,594"	0,825*	1 Section 1	0,952*		
N/mm+ PSI	129,92*	0,382~	0,565"	0,4021	0,5950	0,427*	0,631"	0,456~	0,675-	0,493*	0,729*	0,540*	0,799*		0,893*				

Specifications subject to verification. Due to ongoing product development, machine specifications can change at any time.



R-ECO A / B MOTORIZED

BENDING THIN SHEET METAL?

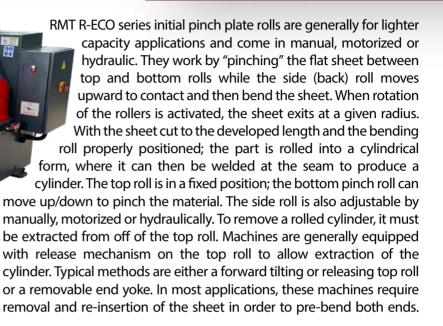
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These initial pinch rolls are designed for small part bending with low operation cost. R-ECO rolls feature robust cast iron frames (or steel welded frame depend on size), chain and gearbox drive systems and electric motors with a magnetic break which eliminates drifting. They also offer foot pedals with forward, reverse, and emergency stop along with a safety wire and limit switch.

A very economical, reliable, and efficient choice for your small parts needs.



R-ECO C / D MOTORIZED



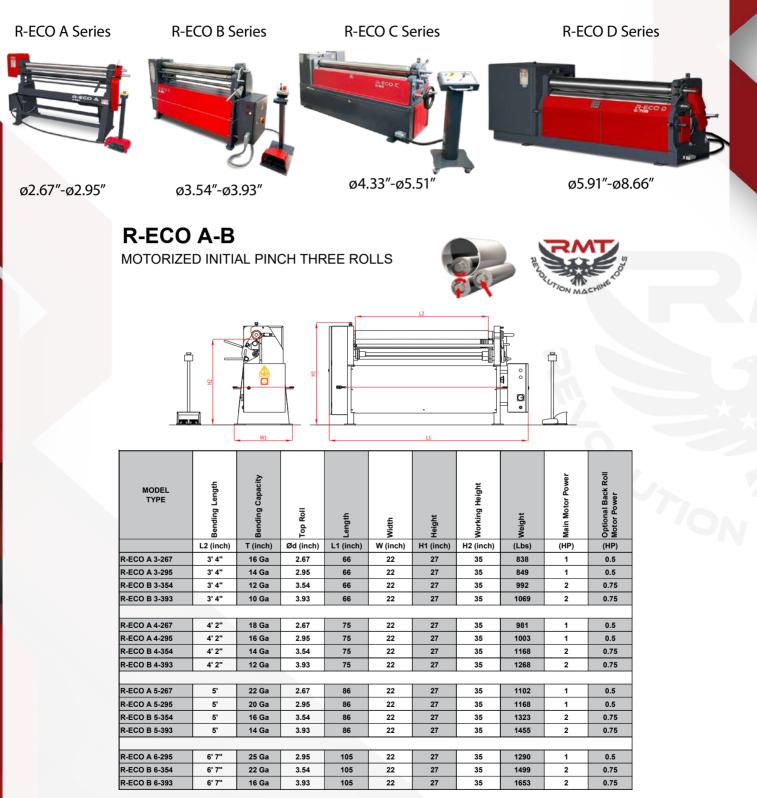
R-ECO D

R-ECO D

R-ECOC



R-ECO A-B SERIES



The values above as based on 38 KSI yield material.

Different material widths and plate types can be calculated using the RMT Roll Bending Calculator. Conical bending capacities depend on cone angle and are half the above mentioned values. Motor power and machine weight will increase with optional features. Due to ongoing product development, specifications may change at any time.

Larger or Custom **Machines Available**

R-ECO C SERIES

CTION MACHINE

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Roll Main Motor Power **Bending Capacity Bending Length** Optional Back F Motor Power Working Height MODEL TYPE **Fop Roll** -ength Weight Height Width T (inch) Ød (inch) L2 (inch) L1 (inch) W (inch) H1 (inch) H2 (inch) (Lbs) (HP) (HP) R-ECO C 3-433 3' 4" 8 Ga 4.33 78 47 2635 3 1.5 37 36 3' 4" R-ECO C 3-472 7 Ga 4.72 78 37 47 36 2723 3 1.5 R-ECO C 3-511 3' 4" 5.11 47 6 Ga 78 37 36 2811 3 1.5 R-ECO C 3-551 3' 4" 5 Ga 5.51 78 37 47 36 2899 3 1.5 R-ECO C 4-433 4' 2" 10 Ga 4.33 88 37 47 2877 3 1.5 36 R-ECO C 4-472 4' 2" 2965 8 Ga 4.72 88 37 47 36 3 1.5 7 Ga R-ECO C 4-511 4' 2" 5.11 88 37 47 36 3053 3 1.5 R-ECO C 4-551 4' 2" 6 Ga 5.51 88 37 47 36 3142 3 1.5 R-ECO C 5-433 12 Ga 4.33 5' 98 37 47 36 2950 3 1.5 R-ECO C 5-472 5' 11 Ga 4.72 37 47 36 3038 3 1.5 98 R-ECO C 5-511 5' 10 Ga 5.11 37 47 3142 3 1.5 98 36 R-ECO C 5-551 5' 8 Ga 5.51 98 37 47 36 3245 3 1.5 R-ECO C 6-433 6' 7" 14 Ga 4.33 117 37 47 36 3131 3 1.5 R-ECO C 6-472 6' 7" 12 Ga 4.72 117 37 47 36 3208 3 1.5 R-ECO C 6-511 6' 7" 11 Ga 5.11 117 37 47 3289 3 1.5 36 R-ECO C 6-551 6' 7" 5.51 117 37 47 3450 3 1.5 10 Ga 36

The values above as based on 38 KSI yield material.

R-ECO C 8-551

Different material widths and plate types can be calculated using the RMT Roll Bending Calculator.

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137

37

47

36

Conical bending capacities depend on cone angle and are half the above mentioned values.

12 Ga

Motor power and machine weight will increase with optional features

8' 3"

Due to ongoing product development, specifications may change at any time.

Larger or Custom **Machines** Available

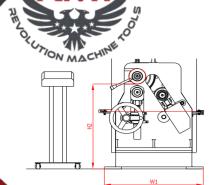
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MODEL TYPE	Bending Length	Bending Capacity	Ton Ton Mg (luch)	Length	Width Width	Height	Working Height	(gq1) (sght	H) (H) Main Motor Power	H Back Roll Motor Power	
R-ECO D 3-590	L2 (Inch) 3' 4"	T (Inch) 1/4"	5.90	L1 (Inch) 101	W (Inch) 35	H1 (Inch) 45	H2 (Inch) 33	4784	5.5	4	
R-ECO D 3-629	3'4"	9/32"	6.29	101	35	45	33	4960	5.5	4	
R-ECO D 3-669	3'4"	5/16"	6.69	101	35	45	33	5170	5.5	4	
R-ECO D 3-708	3' 4"	3/8"	7.08	101	35	45	33	5390	5.5	4	
	• •	010	,			70			0.0	-	
R-ECO D 4-590	4' 2"	7/32"	5.90	111	35	45	33	5071	5.5	4	
R-ECO D 4-629	4' 2"	1/4"	6.29	111	35	45	33	5269	5.5	4	
R-ECO D 4-669	4' 2"	9/32"	6.69	111	35	45	33	5490	5.5	4	
R-ECO D 4-708	4' 2"	5/16"	7.08	111	35	45	33	5721	5.5	4	1×1
).		
R-ECO D 5-590	5'	3/16"	5.90	121	35	45	33	4883	5.5	4	
R-ECO D 5-629	5'	7/32"	6.29	121	35	45	33	5115	5.5	4	
R-ECO D 5-669	5'	1/4"	6.69	121	35	45	33	5379	5.5	4	
R-ECO D 5-708	5'	9/32"	7.08	121	35	45	33	5644	5.5	4	
			-	-							
R-ECO D 6-590	6' 7"	5/32"	5.90	141	35	45	33	5445	5.5	4	
R-ECO D 6-629	6' 7"	3/16"	6.29	141	35	45	33	5710	5.5	4	
R-ECO D 6-669	6' 7"	7/32"	6.69	141	35	45	33	5897	5.5	4	
R-ECO D 6-708	6' 7"	1/4"	7.08	141	35	45	33	6239	5.5	4	
		_									
R-ECO D 8-590	8' 3"	1/8"	5.90	160	35	45	33	5952	5.5	4	
R-ECO D 8-629	8' 3"	5/32"	6.29	160	35	45	33	6140	5.5	4	
R-ECO D 8-669	8' 3"	3/16"	6.69	160	35	45	33	6471	5.5	4	
R-ECO D 8-708	8' 3"	7/32"	7.08	160	35	45	33	6889	5.5	4	
R-ECO D 8-748	8' 3"	1/4"	7.48	160	35	45	33	7500	5.5	4	
R-ECO D 10-629	10'	1/8"	6.29	180	35	45	33	8267	5.5	4	
R-ECO D 10-708	10'	5/32"	7.08	180	35	45	33	9370	5.5	4	
R-ECO D 10-787	10'	3/16"	7.87	180	35	45	33	9500	5.5	4	
R-ECO D 10-866	10'	1/4"	8.66	180	35	45	33	10824	5.5	4	

The values above as based on 38 KSI yield material. Different material widths and plate types can be calculated using the RMT Roll Bending Calculator.

Larger or Custom

R-ECO SERIES



STANDARD (R-ECO A Series)

- Top and bottom rolls are powered by a helical type gearbox and AC motor
- AISI 1050 Quality Certificated steel rolls with high tensile strength
- Solid steel frame.
- Mechanical manual mechanical drop-end.
- Foot pedal.
- Conical bending device
- Manual lubrication points
- Precision bending with brake motor
- Wire grooves at the end of the rolls (.157"/.275"/.354")

OPTIONAL (R-ECO A Series)

• Digital Read-Out for rear (back) roll

• Induction hardened and polished rolls

STANDARD (R-ECO C Series)

• Top and bottom rolls are powered by a helical type gearbox and AC motor

• AISI 1050 Quality Certificated steel rolls with high tensile strength

- Solid steel frame.
- Mechanical manual mechanical drop-end.
- Foot pedal.
- Conical bending device
- Manual lubrication points
- Precision bending with brake motor
- Wire grooves at the end of the rolls (.157"/.275"/.354"/.511")

OPTIONAL (R-ECO C Series)

- Digital Read-Out for rear (back) roll
- Induction hardened and polished rolls
- Motorized adjustment of back roll
- Extended roll shafts for profile and pipe bending operations

STANDARD (R-ECO B Series)

• Top and bottom rolls are powered by a helical type gearbox and AC motor

• AISI 1050 Quality Certificated steel rolls with high tensile strength

- Solid steel frame.
- Mechanical manual mechanical drop-end.
- Foot pedal.
- Conical bending device
- Manual lubrication points
- Precision bending with brake motor
- Wire grooves at the end of the rolls (.157"/.275"/.354")

OPTIONAL (R-ECO B Series)

- Digital Read-Out for rear (back) roll
- Induction hardened and polished rolls
- Motorized adjustment of back roll

STANDARD (R-ECO D Series)

- Top and bottom rolls are powered by a helical type gearbox and AC motor
- AISI 1050 Quality Certificated steel rolls with high tensile strength
- Solid steel frame.
- Mechanical manual mechanical drop-end.
- Mobile control panel
- Conical bending device
- Manual lubrication points
- Top roll support system
- Precision bending with a motor brake
- Motorized adjustment of back roll

OPTIONAL (R-ECO D Series)

- Digital Read-Out for rear (back) roll
- Induction hardened and polished rolls
- Extended roll shafts for profile and pipe bending operations
- Profile and section bending rolls set
- Motorized bottom roll (pinching)
- Segmented plastic rolls for composite bending



BENEFIT OF RMT 4 ROLL PLATE BENDING MACHINES

• The fastest and most accurate bends are made by four roll machines. The plate is held securely in place between the top and bottom rolls while the side rolls move vertically to create the bend.

• The bottom roll moves up to hold the plate edge securely against the top roll while the side roll is raised to form an accurate pre-bend, minimizing the flat zone on the plate edge. Pre-bending on a double pinch three roll machine requires that plates be tilted down as they are being fed. In contrast, plates are loaded horizontally at the feed level for pre-bending on a four roll machine, which allows the use of horizontal motorized roller tables to help feed the plate.

• Plate feeding can take place on either side of a four roll machine. If fed from only one side, they can even be placed up against a wall to save floor space.

• The side rolls are positioned to the right and left of the bottom roll and are on their own axes. The independent axis of each roll helps make a perfect bend. The "back" side roll (at the far side of the feeding point) also functions as a back gauge to square the plate for proper alignment (see figure 1). This eliminates the need for someone to assist the operator.

• The plate is kept square without slipping during both pre-bending and rolling because of the constant secure clamping of the top and bottom rolls.

• Four roll machines do not require the operator to remove, flip, and then try to square the plate a second time after pre-bending, as is the case with three roll initial pinch (IP) machines. Keeping the material in the machine makes four rolls 50% more efficient than three roll IP machines, and allows a cylinder to be rolled to the required diameter immediately following pre-bending.

• Bending the back edge takes place after the cylinder is rolled, for a one direction, single pass operation.

• Cone rolling is easier on a four roll machine. The side rolls can be tilted to establish the cone angle and the bottom roll can also be tilted to clamp and drive the plate.

• Four roll machines are the only type of plate rolls that can effectively make use of NC and CNC controls because of the constant clamping and driving of the material during all steps of rolling. Bending difficult shapes like polycentric or elliptic work pieces can be easily done with CNC four roll machines.



BENEFIT OF RMT 4 ROLL PLATE BENDING MACHINES

Accuracy

RMT machines are designed with state-of-the-art technologies that provide unparalleled accuracy and precision. This is the result of our world-class Research and Development department that has been constantly perfecting our machines for decades, allowing us to consistently outperform competitor machines year after year.

Reliability

RMT machines are designed from the ground up by our expert engineers with only one goal: to build the best machines imaginable. By combining our unique machine designs with the highest quality materials available, we realized our goal and invented some of the most reliable and durable machines in the world!

Efficiency

We understand the importance of a disruption-free production to your success, and have done everything in our power to maximize the efficiency of our RMT machines. We have meticulously identified and removed every hindrance to efficiency in our machines, providing you with the most seamless manufacturing experience imaginable.

Safety

Safe operation of heavy machinery for the operator and any bystanders is paramount to any successful enterprise, which is why RMT machines have a multitude of safety features in place, ofttimes exceeding industry standards. We have even implemented our own innovative safety features when existing ones were inadequate or non existent.

Flexibility

RMT is committed to the universalization of machinery and machine tools, because it not only prevents our customers from having to reinvest in new tooling and accessories, but allows for remarkable flexibility. The enhanced flexibility and longevity of our machines provides for a significantly broader range of applications, maximizing value.

Customizability

RMT machines are highly customizable and because RMT manufactures our own designs, we have the capability to tailor-make machines to fit our customers needs. Put us to the test and see what we can come up with to help you complete difficult or otherwise impossible jobs. Regardless of the project, RMT can help realize it!



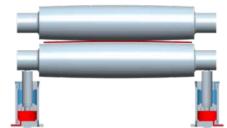




The most important elements of a plate roll machine are the rolls themselves. Most machines in the market have smaller diameter, weak rolls that deform during the pre-bending process and create a flat spot on the plate edge.

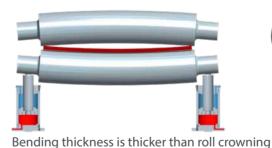
RMT designed the rolls with larger diameter and uses high tensile forged steel rolls that are machined by high precision CNC lathes. The working surfaces of the rolls are CNC induction hardened to HRC 54-58 (5-6 mm depth) with hardness tests performed at varying points on the rolls. The smallest bending diameter of 1.1 x top roll diameter is easily achieved.

The rolls are machined with a crown to compensate for roll deflection during the pre-bending process. Custom crown machined rolls for different materials or thickness can be applied free of charge when ordering.



Bending thickness is thinner than roll crowning

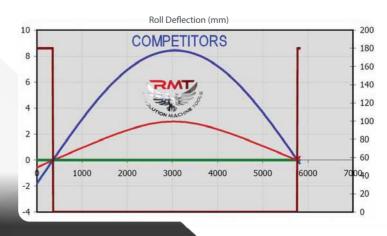
Bending thickness is compatible with roll crowning





9 deformation





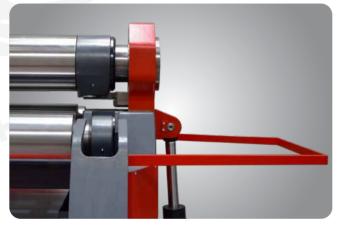
HYDRAULIC DROP END Standard on R-SMART and R-GIANT



Hydraulic drop ends on R-SMART 4 Rolls - allow for easy removal of formed pieces. Cone snubber is a standard feature that is placed on a top roll bearing allowing easy rotation of snubber (so it can not interfere with extraction).

On our R-GIANT 4 Rolls - the heavy duty roller snubber system is mounted to the main frame of the machine. The top roll is hydraulically tilted up to allow for easy removal of formed parts.









R-SMART Series: Fixed top roll



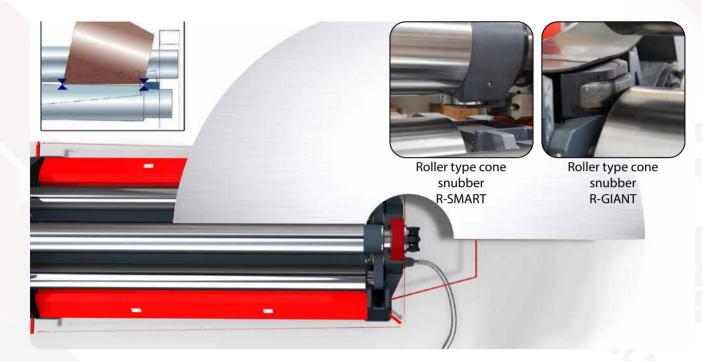
R-GIANT Series: Tiltable top roll





Through superior construction, a massive body and the ability to angle the bottom and side rolls, you can easily bend wide angle and small diameter conical parts.

While most machines on the market can conically bend 3 times the diameter of the top roll, RMT 4 roll plate bending machines can conically bend 1.5 times the top roll diameter (or tighter).





SIDE AND OVERHEAD SUPPORT SYSTEM



Optional on R-SMART and R-GIANT

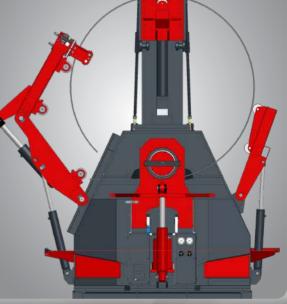
Optional hydraulic side or overhead supports help prevent distortion of the cylinder in large shaped bends. Side supports have hydraulic double cylinders which are produced with heavy-duty steel construction. The vertical support capacity can be manufactured to different tonnage and height requirements.



CUSTOM APPLICATION SHEET SUPPORT SYSTEMS



Cartesian type overhead support



Dual knuckle side support with edge alignment clamps



HYDRAULIC & ELECTRIC SYSTEM

Standard on R-SMART and R-GIANT

Our R-SMART and R-GIANT machines movements are actuated by hydraulic components. The precision of all axes are acquired by world leader Duplomatic valves' high speed response ability along with pressure safety valves used against peak pressures and overload, provides protection for motors and other components. The electrical system is designed to be compatible with CE safety regulations. The system consists of well known electrical components such as Siemens, Schneider, Phoenix and Opkon.



HIGH TORQUE DRIVE SYSTEM

With its high torque, RMT plate rolls can bend the sheet with fewer steps. Rolls are triggered by independent high torque AC or hydro motors and planetary gearboxes. A trigger system is positioned on the same axis as the roll, which transfers the torque to the sheet without losing torque strength. Strong Electric / Hydraulic Brakes : Especially during the pre-bend, our system does not allow the sheet to slip back and create safety problems.

OPTIONAL GAS SHOCK ABSORBER

When the sheets are bent, the welding process begins on the machine. In particular, the combination of tension that occurs during welding of thin sheet point inward pulling thus causes the deterioration of cylindrical form. So re-rolling must be done after the welding operation. On standard machines welding cannot pass through between top and bottom rolls. If clamping pressure is too much and welding area is too thick, rolls could get damaging dents to roll face. RMT has developed gas shock absorber. Thus, when weld passing through the roller, lower roller moves up and down automatically.



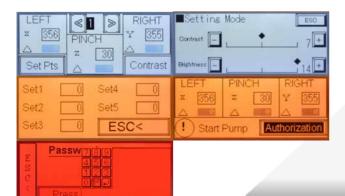
PLC CONTROL SYSTEM Standard on R-SMART and R-GIANT



The PLC control system ensures the machine's bottom and side rollers' synchronous operation. This process is provided via the PLC with 6 Axis control and touch screen operator panel.







PLC Control Unit

Dedicated scratch-proof, oil-proof, acid-resistant IP65 sealed touch panel

PLC

- Panasonic 32 I/O

Memory

- 5 Mbyte

Display

- Monochrome LCD 3" ekran
- Resolution
- 128 (W) x 64 (H)
- 3 colors led back light (green, red, orange)
- Communication port 1 RS232C Seri Port
- Temperature -20 / 60°C

Software

- Manual working mod
- Standard 6 Axes (X1,X2,Y1,Y2,P,P1)
- 3 colors display for machine situation
- Conic and parallelism control
- 5 set point programming
- Contrast adjusting
- Turkish, English, German, French, Spanish, Polish,
- Hungarian, and Croation languages
- Alarm list





NC control system, in addition to the PLC control system, has the property to work manual, teach-in, and automatic modes of operation. In manual mode, the use of all functions are provided by the operator. In teaching mode for the operator to twist all the steps are recorded respectively. In automatic mode all recorded movements are repeated respectively by the machine.

The NC control unit is also capable of calculating bending steps one by one. NC control system has the capacity to save 2500 programs consisting of max 100-steps.

1- Manual mode

855

170

170

670

FAST

B

3

Direct Sizing

B

C

670

P 100

% Speed

X-Y 100

Z 100

2- Teach-in programming

Firet Step

Learn All

Current

3- Select material, enter thickness



NC CONTROL UNIT (S530)







NC Control Unit (S530)

- Dedicated scratch-proof, oil-proof, acid-resistant
- IP65 sealed membrane push buttons with 51 keys
- Fiberoptic communication lines

PLC

Esa/Gv

CPU AMD Geode[™] LX800 500MHz

Memory

256 Mbyte DRAM for CPU 1 Mbyte SRAM for parameters

Communication ports

- 1 CAN interface
- 1 RS232C Serial Port
- 2 USB Port, 1 VGA Out

Temperature

--25 / 70°C

Software specifications

- Manual, teach-in and automatic working modes
- Standard 7 Axes (X1, X2, Y1, Y2, P, P1, Z)
- Conic and parallelism control
- Adjustable speeds
- 100 step, 2500 program memory
- User friendly program editor
- USB port for programs backup
- Part pcs programming
- Working hours counter
- mm / inch system
- Automatic turn off programming

- Turkish, English, German, French, Spanish, Italian, Russian, Polish languages

- Alarm list

4- Enter radius and arc angle/length

L	Select Step PH0001 Pump off	N+
8	Enter Step Data R 500 L 392 Angle 45	→ <u>⊠</u>
С	Out Conten Teo RA	->
Usb		11
4		*

5- Program calculated

L	Automatic	PH001	B Press S	tart to start	-	L	Program List								
р С	Axis X 160 Axis X1 160 Axis X1 40 Axis Y1 40 Axis Y1 40 Axis P 50 Axis 7	0	33	4	+¤ →	c c	123 123456789 234 456	Select N Steps Sp Width Material Right Step	123 12 8 0 -1 8	Length 0	The second s				
the An	AXIS Z Enter Pcs	Reset Wkp			//	小小	Files : 4 8 H	8 Selectio		(vtileCAL/Vrg Hew Pr	rogi				

6-Save program

3

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CNC UNIT (S550)

For R-SMART and R-GIANT





- Standard 7 Axes (X1,X2,Y1,Y2,P1,P2,Z)
- Standard 32 inputs and 32 outputs
- 15" TFT XGA color touch display with anti-glare screen
- Dedicated scratch-proof, oil-proof IP65 keyboard with 28 keys
- 2.5" Hard disk drive 20GBytes or more
- Hand wheel for adjustable turning speed
- Industrial keyboard (USB)

Technology

- CPU PC: Intel Atom N270 1,6Ghz with 1Gb of RAM
- CPU CNC: AMD Geode ETX-LX800 500 MHz, with 128Mb

Communication ports

- 1 serial ports RS-232, 3 USB ports, 2 Ethernet port on the PC
- 2 serial ports RS-232, 2 USB, 1 Ethernet port, 1 Can Open Port on CNC
- Fiber optic interface
- Local area network

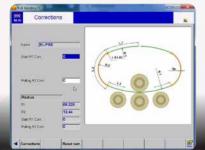
User memory

- Hard disk for more than 2.000.000 part programs

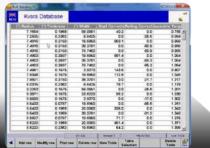
Software specifications

- Windows[®] 10 operating system
- Manual, teach-in and automatic working modes
- Conic and parallelism control
- Interactive 2D graphic editor for work-pieces and tools data entry
- 2D graphic display of machine rolls
- 2D automatic identification of the best bending sequence
- Programming of the axes positions in tabular mode with automatic syntactical checks
- Automatic calculation of the X,R,P and Z axes positions for
- cylindrical, polycentric, oval, oval parallel sides, rectangular, arc bending shapes
- Material database of common steel plates
- X-Z / Y-Z (Side Roll & Rotation) axes interpolation capability
- Bending and working hours counter
- Metric and imperial units
- Off-line programming
- English, German, French, Spanish, Italian, Russian, Polish, languages - Alarm messages

7-Make corrections



8- Insert corrections to database



9- Save program





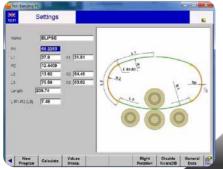


The CNC unit, with its graphical control system allows the bending to be done step by step or by automatically calculating the bending steps. Due to changes in the structure of the material, corrections must be entered for pre-bending and bending steps after the first bended plate to get the desired bending form. Correction coefficients can be recorded to software for using them in similar characteristic material bending operations. With the CNC control you can easily bend parts into shapes such as: cylindrical, polycentric, elliptical, oval, parallel side, rectangular, and arc. CNC unit has interpolation capability due to proportional valves. The CNC unit can store more than 2,000,000 programs. The easy to use editor page also allows for simple editing of any saved programs. The unit also comes with a USB port allowing for easy up or downloading of your programs. You can also connect the control directly with your computer using an Ethernet cable. This also allows our service team to remote in if diagnosis is ever necessary. This also allows our service team to remotely access the machine if diagnosis is ever necessary. Lubrication system (offered as an option) operating times can be set at the control unit. Plate feeder, vertical and side sup-ports (offered as an option) can be included as NC functions (teachable) into control unit. So supports can be programmed in teach-in mode and provided automatically during bending.

1- Manual mode



4- Enter part dimensions

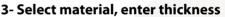






5- Program calculated







6- Start bending





R-SMART HYDRAULIC FOUR ROLL BENDING MACHINE







R-SMART - Planetary gearboxes

WORKHORSE

R-SMART machines have robust frames built with high quality steel construction and are fully hydraulic. Top and bottom roll are powered by hydraulic motor, gearbox and cardan drive. This is an ideal machine for shops that need an easy machine to operate using a 4 roll design, and working with material ranging from 24 gauge to 5/8". These machines come standard with conical bending for making cone shaped parts and hydraulic bottom and side roll adjustments. The R-SMART machine is available from 3'-13' lengths making it very flexible for a wide range of applications, so you get the right machine for your needs... Not a one size fits all approach.



OPTIONAL CONICAL ROLLS



Optional on R-SMART and R-GIANT





OPTIONAL PLASTIC / METAL COLLARS

We can build a machine to suit your particular requirements - (Collars can be a nice option if you are planning on forming composite panels & column covers with inside/up flange).



844-768-4636 / www.RMTUS.com 29



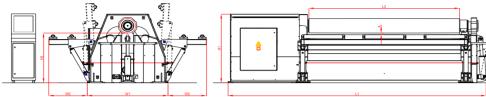
R-SMART

R-SMART

HYDRAULIC PLANETARY TYPE FOUR ROLL BENDING MACHINE

Min. Int. Dia





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BABART 6-961 9 *r 5 *r 5 *r 5 *r 5 *r 1 *r 1 *r 9 *r 9 *r 5 *r 5 *r 5 *r 7 *r 4 *r 5 *r 5 *r 5 *r 7 *r 4 *r 5 *r 5 *r 5 *r 5 *r 7 *r 4 *r 5 *r 4 *r 5 *r 5 *r 5 *r 5 *r 4 *r 5 *r	D OMADT C CCA	514	4/01	5/001	2/401	5.54	F 54	5.40	4/01	400	20	45	25	22	E 0.57		F F4	
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SHART 1-147 6*6* 1* 1-316* 1-42* 15.7 14.22 14.12 14.22 14.22 14.22 14.12 14.22 14.12 14.22 14.12 14.22 14.17 158 SMART 5-163 6*5* 1-30* 1-47* 7.8<																	-	
BENART 6-1693 6 ° b* 1.30* 1.916* 1.30* 16.93 15.75 12.60 2.34* 178 8.2 61 59 4.2 38.112 60 14.17 158 R-SMART 8-27 6" 4" 64" 510" 36" 8.27 7.48 7.09 1.316" 171 46 477 33 27 10.682 115 7.87 4.2 R-SMART 8-060 6" 4" 616" 36" 8.27 7.48 7.09 1.316" 171 46 477 33 27 10.682 115 7.87 4.2 R-SMART 8-1050 8" 4" 38" 112" 56" 10.53 8.46 56 2" 188 66 63 46 32 21.164 25 10.63 105 R-SMART 8-1050 8" 4" 1116" 1.431" 1.439 10.51 1.457 11.42 2.12" 198 82 61 69 42 33.100 30 14.17 158 R-SMART 10-60 10" 2" 52" 1.41" 1.451" 1.57				1-3/16"		14.17				178	82		60		30,754			
R-SMART 8-167 8'4" 532" 14" 144" 7.87 7.48 1.316" 171 46 47 33 27 10,857 10 7.87 42 R-SMART 8-06 8'4" 14" 516" 36" 8.27 7.48 7.316" 171 46 47 33 27 10,852 10 7.87 42 R-SMART 8-066 8'4" 38" 12" 56" 10.63 8.46 8.66 2 19.459 10.63 10.63 10.63 10.63 10.64 53 44 57 10.63 10.63 10.63 10.66 10.63 10.63 10.65 10.63 10.63 10.63 10.63 10.63 10.63 10.63 10.63 2.38" 188 66 63 46 14.17 158 16.57 14.67 11.42 2.412" 198 82 61 60 42 35.20" 10.63 1.417 158 R-SMART 10-162 8'4"	R-SMART 6-1575	6' 8"	1-3/16"	1-3/8"	1-1/2"	15.75	14.57	11.42	2-1/2"	178	82	81	59	42	33,731	50	14.17	158
B-SMART 9-327 9' 4" 144" 5'16" 33" 9.27 7.48 7.09 1-316" 171 46 47" 33 27 10.02 15 7.87 42 R-SMART 9-065 6' 4" 5'16" 30" 12" 9.06 9.27 7.48 1-316" 171 46 47" 33 27 10,02 15 7.87 42 R-SMART 8-1605 6' 4" 102" 56" 14/1" 16.05 9.84 666 53 45 32 21,164 25 10.63 105 R-SMART 8-1477 5' 4" 3/4" 1" 1-147" 14.17 15.0 16.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.2 2.34" 198 82 81 69 42 39,132 60 14.17 158 R-SMART 10-827 10'2" 5'2" 10'4" 14.14" 5.77 <	R-SMART 6-1693	6' 8"	1-3/8"	1-9/16"	1-3/4"	16.93	15.75	12.60	2-3/4"	178	82	81	59	42	36,112	60	14.17	158
B-SMART 9-327 9' 4" 144" 5'16" 33" 9.27 7.48 7.09 1-316" 171 46 47" 33 27 10.02 15 7.87 42 R-SMART 9-065 6' 4" 5'16" 30" 12" 9.06 9.27 7.48 1-316" 171 46 47" 33 27 10,02 15 7.87 42 R-SMART 8-1605 6' 4" 102" 56" 14/1" 16.05 9.84 666 53 45 32 21,164 25 10.63 105 R-SMART 8-1477 5' 4" 3/4" 1" 1-147" 14.17 15.0 16.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.57 14.2 2.34" 198 82 81 69 42 39,132 60 14.17 158 R-SMART 10-827 10'2" 5'2" 10'4" 14.14" 5.77 <																		~
R-SMART 8-066 6*4" 916" 302" 112" 506 8.27 7.48 1-316" 111 46 47 33 27 11,574 15 7.87 42 R-SMART 8-1063 6*4" 3/8" 1/2" 58" 10.63 9.84 8.66 2" 188 66 63 46 32 11,44" 10.63 105 R-SMART 8-1299 8"4" 58" 14/4" 11.81 10.63 2.62 11.86 66 63 45 32 2.1,149 30 10.63 105 R-SMART 8-1675 6"4" 1" 1.316" 1.45.7 11.42 2.12" 198 82 81 69 42 36,200 40 14.17 158 R-SMART 8-1630 6"4" 1.316" 1.45.7 14.45.7 11.42 2.12" 198 82 81 59 42 36,200 40 14.17 158 R-SMART 10-427 102" 503" 14.6"																		
R.SMART 8-1063 6' 4" 30" 112" 56" 10.63 9.84 8.66 2" 188 66 63 46 32 19.489 20 10.63 105 R.SMART 8-1611 6" 4" 112" 56" 111/6" 11.81 10.63 8.66 2" 188 66 63 46 32 21,164 25 10.63 105 R.SMART 8-1417 6" 4" 14" 1.416" 1.299 11.63 2.38" 198 82 81 60 42 33.400 30 14.17 158 R.SMART 8-1417 6" 4" 14" 1.416" 1.575 14.57 11.42 2.412" 198 82 81 69 42 33.400 30 14.17 158 R.SMART 10-663 6" 4" 1.316" 14.76" 16.77 7.09 1.316" 193 46 47 33 27 11.44" 11 7.67 42 R.SMART 10-163 10"2" 516" 3.8" 9.66 8.2" 7.00 6.53 46 32																		
R-SMART 10-229 6' 4'' 5'8'' 3'4'' 1'' 1.18' 9.45 2'' 188 66 63 45 32 23,400 30 10.63 105 R-SMART 8-1417 6'' 3'' 1'' 1.18'' 14.17 12.99 10.63 2.38'' 198 82 81 60 42 33,400 30 14.17 158 R-SMART 8-1693 8' 4'' 1'' 1.31'6'' 15.75 12.60 2.314'' 198 82 81 69 42 39,132 50 14.17 158 R-SMART 10-327 10'2'' 5'12''' 114''' 14''' 8.27 7.48 7.09 1.31'6''' 193 46 47 33 27 11,464 11 7.87 42 R-SMART 10-1821 10'2'' 5'16''' 38''' 10.66 82.7 7.48 1.31'6''' 193 46 47 33 27 11,73'' 15 7.87 42 R-SMART 10-181 10'2'' 136''' 11.21''' 56''''''''''''''''''''''''''''''''''''																		
R.SMART 8-1417 8'4" 1'' 1-1/18" 14.17 12.99 10.63 2-38" 198 82 81 60 42 33,400 30 14.17 158 R.SMART 8-1575 8'4" 1'' 1-3/16" 1-5/16" 15.75 14.457 11.42 2-1/2" 198 82 81 59 42 33,000 30 14.17 158 R.SMART 8-1693 8'4" 1-3/16" 1-3/16" 133 15.75 12.60 2-3/4" 198 82 81 59 42 35,200 40 14.17 158 R.SMART 10-827 10'2" 5/32" 11/4" 11/4" 8.27 7.48 7.09 1-3/16" 193 46 47 33 27 11,464 11 7.67 15 7.77 42 R.SMART 10-1053 10'2" 5/16" 3/6" 11/2" 10.63 8.66 2" 210 66 63 45 32 23,574 25 10.63 105 R.SMART 10-163 10'2" 11/2" 5/6" 11/16"	R-SMART 8-1181	8' 4"	1/2"	5/8"	11/16"	11.81	10.63	8.66	2"	188	66	63	45	32	21,164	25	10.63	105
R.SMART 8.1575 8'4" 1" 1.3/16" 1.5/16" 1.5/15 1.4.57 1.4.27 198 8.2 81 69 42 38,00 40 14.17 158 R.SMART 8.1693 8'4" 1.3/16" 1.3/6" 1.1/2" 16.93 15.75 12.60 2.3/4" 198 82 81 59 42 38,132 50 14.17 158 R.SMART 10-627 10"2" 1/4" 51/6" 3/6" 7.48 7.48 7.99 1.3/16" 193 46 47 33 27 11,464 11 7.87 42 R.SMART 10-1051 10"2" 1/4" 5/16" 3/8" 9.06 8.27 7.48 1.3/16" 193 46 47 33 27 11,64 11 7.87 42 7.86 1.6.16 10.2" 10.3" 15 10.63 10.65 1.6.52 10.66 63 45 32 23,89 20 10.63 105 R.SMART 10-1631 10"2" 11/2" 5/6" 11.181 9.45 2" 210	R-SMART 8-1299	8' 4"	5/8"	3/4"	7/8"	12.99	11.81	9.45	2"	188	66	63	45	32	23,149	30	10.63	105
R-SMART 8-1693 6' 4" 1-3/16" 1-3/16" 1-1/12" 16.9.3 15.75 12.60 2-3/4" 198 82 81 59 42 39,132 50 14.17 158																		
R-SMART 10-827 10° 2" 5/32" 1/4" 1/4" 1/4" 1/4" 1/4" 1/4" 1/4" 1/4" 1/4" 1/4" 1/4" 1/4" 1/2" 7.48 7.09 1.3/16" 193 46 47 33 27 1/1,464 11 7.87 42 R-SMART 10-1063 10° 2" 5/16" 3/8" 1/2" 10.63 9.84 8.66 2" 210 66 63 46 32 21,385 15 10.63 105 R-SMART 10-1411 10° 2" 3/8" 11/2" 5/6" 11.81 10.63 8.66 2" 210 66 63 45 32 23,569 20 10.63 105 R-SMART 10-1417 10° 2" 3/4" 1"" 1.1.76" 14.57 11.42 2.1/2" 219 82 81 69 42 40,345 40 14.17 158 R-SMART 10-1693 10° 2" 1" 1.3/16" 1.6.57 14.6"																		
R-SMART 10-906 10'2" 114" 5/16" 3/8" 9.06 8.27 7.48 1-3/16" 193 46 47 33 27 12,787 15 7.87 42 R-SMART 10-063 10'2" 5/16" 3/8" 11/2" 10.63 9.84 8.66 2" 210 66 63 46 32 21,385 15 10.63 105 R-SMART 10-1299 10'2" 5/8" 11/16" 12.29 11.81 9.45 2" 210 66 63 45 32 23,567 25 10.63 105 R-SMART 10-1299 10'2" 5/8" 11/16" 17.7" 14.17 12.99 10.63 2.348" 219 82 81 60 42 36,707 30 14.17 158 R-SMART 10-1633 10'2" 1"" 1-3/16" 1-5/16" 16.53 15.75 12.60 2-3/4" 219 82 81 59 42 45,345 50 14.17 158 R-SMART 10-1633 10'2" 1'4" 1-4'4" 9.65	R-SMART 8-1693	8' 4"	1-3/16"	1-3/8"	1-1/2"	16.93	15.75	12.60	2-3/4"	198	82	81	59	42	39,132	50	14.17	158
R-SMART 10-906 10'2" 114" 5/16" 3/8" 9.06 8.27 7.48 1-3/16" 193 46 47 33 27 12,787 15 7.87 42 R-SMART 10-063 10'2" 5/16" 3/8" 11/2" 10.63 9.84 8.66 2" 210 66 63 46 32 21,385 15 10.63 105 R-SMART 10-1299 10'2" 5/8" 11/16" 12.29 11.81 9.45 2" 210 66 63 45 32 23,567 25 10.63 105 R-SMART 10-1299 10'2" 5/8" 11/16" 17.7" 14.17 12.99 10.63 2.348" 219 82 81 60 42 36,707 30 14.17 158 R-SMART 10-1633 10'2" 1"" 1-3/16" 1-5/16" 16.53 15.75 12.60 2-3/4" 219 82 81 59 42 45,345 50 14.17 158 R-SMART 10-1633 10'2" 1'4" 1-4'4" 9.65	R-SMART 10-827	10' 2"	5/32"	1/4"	1/4"	8.27	7.48	7.09	1-3/16"	193	46	47	33	27	11.464	11	7.87	42
R-SMART 10-1063 10'2" 5/16" 3/8" 11/2" 10.63 9.84 8.66 2" 210 66 63 46 32 21,385 15 10.63 106 R-SMART 10-1131 10'2" 3/8" 11/2" 5/6" 11.81 10.63 8.66 2" 210 66 63 45 32 23,389 20 10.63 105 R-SMART 10-1417 10'2" 5/8" 31/4" 7/8" 14.17 12.99 10.63 2.3/8" 210 66 63 45 32 23,574 25 10.63 105 R-SMART 10-1675 10'2" 3/4" 1" 1-1/8" 15.75 14.67 11.42 2-1/2" 219 82 81 69 42 40,345 40 14.17 158 R-SMART 10-1693 10'2" 1/4" 1-5/16" 15.75 14.67 11.42 2-1/2" 219 82 81 59 42 40,345 40 14.17 158 R-SMART 12-063 12'1" 5/3"" 11/4" 1-4.67																		
R-SMART 10-1299 10" 2" 112" 518" 11/16" 12.99 11.81 9.45 2" 210 66 63 45 32 25,574 25 10.63 105 R-SMART 10-1417 10" 2" 56" 3/4" 7/8" 14.17 12.99 10.63 2.38" 219 82 81 60 42 36,707 30 14.17 158 R-SMART 10-1693 10" 2" 1" 1-3/16" 1.651 1.4.57 11.42 2.1/2" 219 82 81 69 42 40,345 40 14.17 158 R-SMART 10-1693 10" 2" 1" 1-3/16" 1.6.31 15.75 12.60 2.34" 219 82 81 59 42 45,185 50 14.17 158 R-SMART 12-1663 12" 1" 1/4" 1/4" 9.65 9.06 7.48 5/16" 2.2 40 22 25,133 15 10.63 105 R-SMART 12-163 12" 1" 1/4" 1.417 1.5.9 11.81 9.45 2" 249<					1/2"						66							
R.SMART 10-1417 10'2" 5/8" 3/4" 7/8" 14.17 12.99 10.63 2-3/8" 219 82 81 60 42 36,707 30 14.17 158 R.SMART 10-1575 10'2" 3/4" 1" 1-1/8" 15.75 14.57 11.42 2-1/2" 219 82 81 59 42 40,345 40 14.17 158 R.SMART 10-1693 10'2" 1" 1-3/16" 15.75 14.57 11.42 2-1/2" 219 82 81 59 42 40,345 40 14.17 158 R.SMART 10-1693 10'2" 1" 1-3/16" 16.93 16.75 12.60 2-3/4" 219 82 81 59 42 40,345 40 14.17 158 R.SMART 12-1693 12'1" 1/4" 9.65 9.06 7.48 5/16" 225 47 52 40 27 18,29 10.63 105 R.SMART 12-163 12'1" 5/16" 13/8" 10.63 8.66 2" 249 66		10' 2"	3/8"							210	66	63				20		105
R-SMART 10-1675 10' 2" 3/4" 1" 1-1/8" 15.75 14.57 11.42 2-1/2" 219 82 81 59 42 40,345 40 14.17 158 R-SMART 10-1693 10' 2" 1" 1-3/16" 1-5/16" 16.33 15.75 12.60 2-3/4" 219 82 81 59 42 40,345 40 14.17 158 R-SMART 12-1693 10' 2" 1" 5/32" 1/4" 1/4" 9.65 9.06 7.48 5/16" 225 47 52 40 27 18,298 15 7.87 42 R-SMART 12-181 12' 1" 5/16" 3/8" 10.63 8.66 2" 249 66 63 46 32 27,939 20 10.63 105 R-SMART 12-181 12''' 5/6" 11/16" 14.17 12.99 10.63 2.34" 259 82 81 60 42 42,659 25 14.17 <																		
R-SMART 10-1693 10" 2" 1" 1-3/16" 16.93 15.75 12.60 2-3/4" 219 82 81 59 42 45,195 50 14.17 158 R-SMART 12-063 12' 1" 5/02" 1/4" 1/4" 9.65 9.06 7.48 5/16" 225 47 52 40 27 18,298 15 7.87 42 R-SMART 12-1063 12' 1" 1/4" 1/4" 10.63 9.84 8.66 2" 249 66 63 46 32 25,133 15 10.63 105 R-SMART 12-181 12' 1" 3/6" 1/2" 5/16" 3.8" 8.66 2" 249 66 63 45 32 27,995 20 10.63 105 R-SMART 12-1617 12'' 3/6" 11/16" 14.17 12.99 10.63 2.3/8" 259 82 81 60 42 42,659 25 14.17 158 R-SMART 1																		
R-SMART 12-865 12' 1" 5/32" 1/4" 1/4" 9.65 9.06 7.48 5/16" 225 47 52 40 27 18,298 15 7.87 42 R-SMART 12-165 12' 1" 1/4" 5/16" 3/8" 10.63 9.84 8.66 2" 249 66 63 46 32 25,133 15 10.63 105 R-SMART 12-181 12' 1" 5/16" 3/8" 1/2" 11.81 10.63 8.66 2" 249 66 63 45 32 27,999 20 10.63 105 R-SMART 12-129 12' 1" 3/8" 1/2" 5/6" 12.99 11.81 9.45 2" 249 66 63 45 32 31,085 20 10.63 105 R-SMART 12-163 11/1" 11/16" 14.17 12.99 10.63 2.38" 259 82 81 69 42 52.49.8 14.17 158																		
R-SMART 12-1063 12' 1" 1/4" 5/16" 3/8" 10.63 9.84 8.66 2" 249 66 63 46 32 25,133 15 10.63 105 R-SMART 12-1181 12' 1" 5/16" 3/8" 11.81 10.63 8.66 2" 249 66 63 45 32 27,998 20 10.63 105 R-SMART 12-129 12' 1" 3/8" 11/2" 5/8" 12.9 91.181 9.45 2" 249 66 63 45 32 27,998 20 10.63 105 R-SMART 12-1417 12' 1" 3/8" 11/16" 14.17 12.99 10.63 2.3/8" 259 82 81 60 42 42,659 25 14.17 158 R-SMART 12-1693 12' 1" 11/16" 7/8" 15.75 13.39 2.3/4" 259 82 81 59 42 46,958 30 14.17 158 R-	R-SMAKT 10-1693	10. 2.	1	1-3/16"	1-5/16"	16.93	15./5	12.60	2-3/4	219	82	81	59	42	45,195	50	14.17	158
R-SMART 12-1063 12' 1" 1/4" 5/16" 3/8" 10.63 9.84 8.66 2" 249 66 63 46 32 25,133 15 10.63 105 R-SMART 12-181 12' 1" 5/16" 3/8" 11.81 10.63 8.66 2" 249 66 63 46 32 27,99 20 10.63 105 R-SMART 12-129 12' 1" 3/8" 11/2" 5/8" 12.9" 91.181 9.45 2" 249 66 63 45 32 27,998 20 10.63 105 R-SMART 12-1417 12' 1" 3/8" 11/8" 9.45 2" 249 66 63 45 32 23 10.63 105 R-SMART 12-1693 12' 1" 11/6" 14.17 15.9 14.57 11.42 2-1/2" 259 82 81 59 42 46,958 30 14.17 158 R-SMART 12-1693 12'1" 1	R-SMART 12-965	12' 1"	5/32"	1/4"	1/4"	9,65	9,06	7,48	5/16"	225	47	52	40	27	18,298	15	7,87	42
R-SMART 12-1181 12'' 5/16" 3/8" 1/2" 11.81 10.63 8.66 2" 249 66 63 45 32 27,999 20 10.63 105 R-SMART 12-129 12'1" 3/8" 1/2" 5/6" 12.99 11.81 9.45 2" 249 66 63 45 32 27,999 20 10.63 105 R-SMART 12-1417 12'1" 1/2" 5/6" 11/16" 14.17 12.99 10.63 2.3" 259 82 81 60 42 42,653 25 14.17 158 R-SMART 12-1675 12'1" 5/6" 11/16" 14.57 11.42 2.1/2" 259 82 81 69 42 46,958 30 14.17 158 R-SMART 12-1693 12'1" 11/16" 7/8" 1"" 16.33 15.75 13.39 2.3/4" 259 82 81 59 42 52,492 40 14.17 1																		
R-SMART 12-1417 12'1" 112" 518" 111/16" 14.17 12.99 10.63 2-318" 259 82 81 60 42 42,659 25 14.17 158 R-SMART 12-1675 12'1" 516" 3/4" 776" 15.75 14.57 11.42 2-1/2" 259 82 81 60 42 42,659 25 14.17 158 R-SMART 12-1693 12'1" 11/16" 7/8" 1" 16.57 13.39 2-3/4" 259 82 81 69 42 46,958 30 14.17 158 R-SMART 12-1693 12'1" 11/16" 7/32" 9.65 9.06 7.48 5/16" 225 47 52 40 27 18,298 15 7.87 42 R-SMART 14-181 14'1" 11/4" 10.63 8.86 2" 249 66 63 45 32 27,333 15 10.63 105 R-SMART 14-181			5/16"		1/2"	11.81	10.63		2"	249	66	63	45		27,999		10.63	
R-SMART 12-1675 12'1" 5/8" 3/4" 7/8" 15.75 14.57 11.42 2-1/2" 259 82 81 59 42 46,958 30 14.17 158 R-SMART 12-1693 12'1" 11/16" 7/8" 1" 16.93 15.75 13.39 2.3/4" 259 82 81 59 42 46,958 30 14.17 158 R-SMART 12-1693 12'1" 11/16" 7/8" 1" 16.93 15.75 13.39 2.3/4" 259 82 81 59 42 46,958 30 14.17 158 R-SMART 14-965 14'1" 1/8" 3/16" 7/32" 9.65 9.06 7.48 5/16" 225 47 52 40 27 18,298 15 7.87 42 R-SMART 14-1063 14'1" 1/4" 10.63 9.84 8.66 2" 249 66 63 46 32 27,999 20 10.63 105	R-SMART 12-1299	12' 1"	3/8"	1/2"	5/8"	12.99	11.81	9.45	2"	249	66	63	45	32	31,085	20	10.63	105
R-SMART 12-1693 12'1" 11/16" 7/8" 1" 16.33 15.75 13.39 2-3/4" 259 82 81 59 42 52,492 40 14.17 158 R-SMART 14-965 14'1" 1/8" 3/16" 7/32" 9.65 9.06 7.48 5/16" 225 47 52 40 27 18,298 15 7.87 42 R-SMART 14-1063 14'1" 5/32" 1/4" 1/4" 10.63 9.84 8.66 2" 249 66 63 46 32 25,133 15 10.63 105 R-SMART 14-1083 14'1" 1/4" 5/16" 3/8" 11.81 10.63 8.66 2" 249 66 63 46 32 25,133 15 10.63 105 R-SMART 14-129 14'1" 1/4" 5/16" 3/8" 11.18 9.45 2" 249 66 63 45 32 31,085 20 10.63																		
R-SMART 14-1063 14' 1" 1/6" 7/32" 9.65 9.06 7.48 5/16" 225 47 52 40 27 16,298 15 7.87 42 R-SMART 14-1063 14' 1" 5/32" 1/4" 10.63 9.84 8.66 2" 249 66 63 46 32 25,133 15 1.063 105 R-SMART 14-1181 14' 1" 1/4" 1/4" 10.63 8.66 2" 249 66 63 45 32 27,999 20 10.63 105 R-SMART 14-129 14' 1" 5/16" 3/8" 11.81 9.45 2" 249 66 63 45 32 27,999 20 10.63 105 R-SMART 14-129 14' 1" 5/16" 3/8" 11.81 9.45 2" 249 66 63 45 32 31,085 20 10.63 105 R-SMART 14-129 14' 1" 5/8" 14'17 12.99<																		
R-SMART 14-1063 14'1" 5/32" 1/4" 1/4" 10.63 9.84 8.66 2" 249 66 63 46 32 25,133 15 10.63 1063 R-SMART 14-1181 14'1" 5/16" 3/8" 11.81 10.63 8.66 2" 249 66 63 45 32 27,999 20 10.63 105 R-SMART 14-1129 14'1" 5/16" 3/8" 11.81 10.63 8.66 2" 249 66 63 45 32 27,999 20 10.63 105 R-SMART 14-1299 14'1" 5/16" 1/2" 12.99 11.81 9.45 2" 249 66 63 45 32 31,085 10.63 105 R-SMART 14-147 14'1" 3/8" 11/2" 5/8" 14.17 12.99 10.63 2-3/8" 259 82 81 60 42 42,659 25 14.17 158 R-SMART 14	R-SMART 12-1693	12' 1"	11/16"	7/8"	1"	16.93	15.75	13.39	2-3/4"	259	82	81	59	42	52,492	40	14.17	158
R-SMART 14-1063 14'1" 5/32" 1/4" 1/4" 10.63 9.84 8.66 2" 249 66 63 46 32 25,133 15 10.63 1063 R-SMART 14-1181 14'1" 5/16" 3/8" 11.81 10.63 8.66 2" 249 66 63 45 32 27,999 20 10.63 105 R-SMART 14-1129 14'1" 5/16" 3/8" 11.81 10.63 8.66 2" 249 66 63 45 32 27,999 20 10.63 105 R-SMART 14-1299 14'1" 5/16" 1/2" 12.99 11.81 9.45 2" 249 66 63 45 32 31,085 10.63 105 R-SMART 14-147 14'1" 3/8" 11/2" 5/8" 14.17 12.99 10.63 2-3/8" 259 82 81 60 42 42,659 25 14.17 158 R-SMART 14	D SMART 14 005	14' 4"	4/0"	2/46"	7/20"	0.65	0.06	7 49	E/AC"	225	47	52	40	27	19 205	45	7 07	42
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R-SMART 14-1417 14'1" 3/8" 11/2" 5/8" 14.17 12.99 10.63 2-3/8" 259 82 81 60 42 42,659 25 14.17 158 R-SMART 14-1575 14'1" 1/2" 5/8" 11/16" 15.75 14.57 11.42 2-1/2" 259 82 81 60 42 42,659 25 14.17 158										-								
R-SMART 14-1693 14' 1" 5/8" 3/4" 7/8" 16.93 15.75 13.39 2-3/4" 259 82 81 59 42 52,492 40 14.17 158	R-SMART 14-1575	14' 1"	1/2"	5/8"	11/16"	15.75	14.57	11.42	2-1/2"	259	82	81	59	42	46,958	30	14.17	158
	R-SMART 14-1693	14' 1"	5/8"	3/4"	7/8"	16.93	15.75	13.39	2-3/4"	259	82	81	59	42	52,492	40	14.17	158

The values above as based on 38 KSI yield material. Different material widths and plate types can be calculated using the RMT RoII Bending Calculator Corcical bending capacities depend on come angle and are half the above mentioned values. Motor poner and machine weight will increase with optional features. Due to anoging merciul development, peedications may charge at any time.

Larger or Custom Machines Available

R-SMART



STANDARD

- Planetary type side roll movement.
- PLC Electronic balancing system
- Cone bending
- Induction hardened rolls (HRC 56±4)
- Polished rolls
- Single speed control of all axis
- Dual speed control of all axis (NC machines)
- Variable speed control of all axis (CNC machines)
- Machine body constructed of stress-relieved
- Highly durable carbon steel rolls machined by CNC
- Lathes with optimal crown
- (special crown upon request)
- Rolls seated in spherical bearings and bronze bushings
- Hydraulic bracket (drop end) with easy pull out system
- Top and bottom rolls driven with hydraulic motor
- and planetary gear box
 Automatic rolls peripheral speed compensation
- (optimum distribution of torque)
- Adjustable hydraulic pressure on bottom roll (crowning compensation)
- Emergency stop wire around the machine
- Electrical and hydraulic protection against overloads
- World standard electrical and hydraulic components
- Mobile control panel
- Manual lubrication
- Welding possibility on the machine

OPTIONAL

- NC Unit (Simple CNC)
- CNC Control Unit with color graphical control
- AISI 4140 High strength alloy steel rolls
- Four rolls drive
- Wired or wireless remote control
- Oil cooler
- Oil heater
- Side support system (both sides)
- Vertical hydraulic overhead support system 4, 6, 8 TON (10' - 14' - 16' - 20' tall)
- Preparation for side or vertical support system
- NC inclusion for vertical support control (Available on CNC control)
- NC inclusion for side support control
- (Available on CNC control)
- Plate alignment unit
- Automation system
- Changeable top roll for smaller diameter
- Special roll crowning
- Special plate support systems
- Automatic central lubrication
- Material feeding table (Idle or motorized)



R-GIANT RECTILINEAR TYPE HYDRAULIC FOUR ROLLS



MASS PRODUCTION?

The foundation of all RMT R-GIANT Plate Rolls is a box type frame made from millcertified, high-yield steel. As a result, RMT R-GIANT Plate Rolls perform accurately and reliably year after year.

We're so confident in our frames that we offer a 10-year warranty with our standard machines.



Hydraulic cylinders located on either side

of the frames provide roll positioning. The cylinders are synchronized to provide smooth motion resulting in precise roll positions to accuracies within .004".

R-GIANT RECTILINEAR TYPE HYDRAULIC FOUR ROLLS





Hydraulic drop ends on RMT Plate Rolls allow for easy removal of formed pieces. Also the top roll is hydraulically tilted up to allow for easy removal of formed parts. A roller type cone bending attachment is a standard feature that is placed on the lower roll housing. All RMT plate rolls also include a safety wire surrounding the machine to automatically shut off the machine if necessary.

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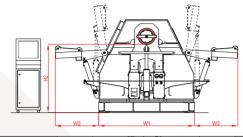


R-GIANT

R-GIANT

HYDRAULIC RECTILINEAR TYPE FOUR ROLL BENDING MACHINE







			Min. Int. Dia Ø Dmin	1													
		Ødx2	Ødx4	Ødx5													~
MODEL	Bending Length	Pre-Bending Capacity	Bending Capacity	Bending Capacity	Top Roll	Bottom Roll	Side Rolls	Max. Pass Through	Length	Width	Height	Working Height	Width of Side Support	Weight	Motor Power	Min. Additional top roll diameter	Hydraulic Tank Capacity
	L2 (inch)	t (inch)	T (inch)	T (inch)	Ød (inch)	Ø (inch)	Ø (inch)	A (inch)	L1 (inch)	W (inch)	H1 (inch)	H2 (inch)	W2 (inch)	(Lbs)	(HP)	Ø (inch)	l (Gal)
R-GIANT 6-1811	6' 8"	1-1/2"	2"	2-1/4"	18.11	17.32	14.17	4"	183	90	94	70	54	52,470	60+30	16.93	220
R-GIANT 6-1890	6' 8"	2"	2-1/2"	2-3/4"	18.90	17.91	14.57	3-1/2"	183	90	94	70	54	54,675	75+30	16.93	220
R-GIANT 8-1811	8' 4"	1-3/8"	1-1/2"	1-3/4"	18.11	17.32	14.17	4"	203	90	94	70	54	58,202	45+30	16.93	220
R-GIANT 8-1890	8' 4"	1-1/2"	2"	2-1/4"	18.90	17.91	14.57	3-1/2"	203	90	94	70	54	70,989	60+30	16.93	220
R-GIANT 8-2126	8' 4"	2"	2-3/8"	2-1/2"	21.26	20.47	16.54	5-3/4"	218	104	110	81	62	93,696	50+50	19.69	290
															1		
R-GIANT 10-1811	10' 2"	1-3/16"	1-3/8"	1-1/2"	18.11	17.32	14.17	4"	224	90	94	70	54	69,446	50+30	16.93	220
R-GIANT 10-1890	10' 2"	1-3/8"	1-1/2"	1-3/4"	18.90	17.91	14.57	3-1/2"	224	90	94	70	54	77,162	60+30	16.93	220
R-GIANT 10-2047	10' 2"	1-1/2"	2"	2-1/4"	20.47	19.69	16.14	6-1/2"	240	104	110	81	62	99,208	40+40	19.69	290
R-GIANT 10-2283	10' 2"	1-3/4"	2-3/8"	2-1/2"	22.83	22.05	17.32	4"	240	104	110	80	62	110,231	50+50	19.69	290
R-GIANT 10-2559	10' 2"	2"	2-3/4"	3"	25.59	24.02	19.69	6"	251	128	145	112	71	158,733	60+60	24.80	450
R-GIANT 10-2992	10' 2"	2-3/4"	3-1/2"	3-1/2"	29.92	28.35	23.62	7-1/2"	280	150	169	132	71	242,508	75+75	28.74	580
			n														
R-GIANT 12-1811	12' 1"	1"	1-3/16"	1-5/16"	18.11	17.32	14.17	3-1/2"	284	91	100	74	54	85,980	50	16.93	220
R-GIANT 12-1890	12' 1"	1-1/8"	1-3/8"	1-1/2"	18.90	17.91	14.57	3-1/2"	264	90	94	70	54	94,799	50+30	16.93	220
R-GIANT 12-2047	12' 1"	1-3/16"	1-1/2"	1-5/8"	20.47	19.69	16.14	6-1/2"	279	104	110	81	62	110,231	40+40	19.69	290
R-GIANT 14-1811	14' 1"	3/4"	1"	1-1/8"	18.11	17.32	14.17	3-1/2"	284	91	100	74	54	85,980	50	16.93	220
R-GIANT 14-1890	14' 1"	1"	1-3/16"	1-5/16"	18.90	17.91	14.57	3-1/2"	264	90	94	70	54	94,799	50+30	16.93	220
R-GIANT 14-2047	14' 1"	1-1/8"	1-3/8"	1-1/2"	20.47	19.69	16.14	6-1/2"	279	104	110	81	62	110,231	40+40	19.69	290

The values above as based on 38 KSI yield material. Different material widths and plate types can be calculated using the RMT Roll Bending Calculator. Conical bending capacities depend on cone angle and are half the above mentioned values. Motor power and machine weight will increase with optional features. Due to ongoing product development, specifications may change at any time.



Larger or Custom Machines Available





STANDARD

- Rectilinear type side roll movement.
- PLC Electronic Balancing System
- Cone bending
- Induction hardened rolls (HRC 54-58)
- Polished rolls
- Single speed control of all axis
- · Dual speed control of all axis (NC machines)
- Variable speed control of all axis (CNC machines)
- AISI 1050 Carbon steel rolls machined by CNC Lathes with optimal crown (special crown upon request)

 Automatic rolls peripheral speed compensation (optimum distribution of torque)

Machine body constructed of stress-relieved high-yield steel

• Rolls seated in dual spherical bearings

• Hydraulic tiltable top roll and bracket (drop end) with easy pull out system

• Top and bottom rolls driven with hydraulic motor and planetary gear box

- Emergency stop wire around the machine
- · Electrical and hydraulic protection against overloads

• World standard electrical and hydraulic components (parts stocked by RMT or available off-the-shelf from your local supplier)

- Adjustable hydraulic pressure on bottom roll (crowning compensation)
- Mobile control panel
- Manual lubrication
- Welding possibility on the machine

OPTIONAL

- NC Unit (Simple CNC)
- CNC Control Unit with color graphical control
- AISI 4140 High strength alloy steel rolls
- Four rolls drive
- Wired or wireless remote control
- Oil cooler
- Oil heater
- Side support system (both sides)
- Vertical hydraulic overhead support system 6, 8, 15 TON (10' 14' 16' 20' tall)
- Preparation for side or vertical support system
- NC inclusion for vertical support control
- (Available on CNC control)
- NC inclusion for side support control
- (Available on CNC control)
- Plate alignment unit
- Automation system
- Changeable top roll for smaller diameter
- Special roll crowning
- Special plate support systems
- Automatic central lubrication
- Material feeding table (Idle or motorized)
- Separated power cabin



R-HYBRID VARIABLE GEOMETRY HYDRAULIC THREE ROLLS

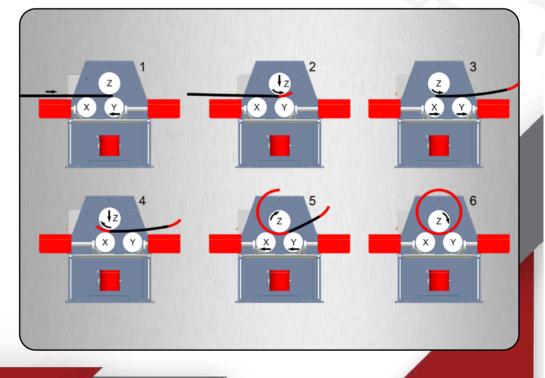




BENDING THICK PLATES?

The variable-geometry plate rolls, which really operates more like a press brake than a traditional plate roll, makes not only extreme rolling possible, but much simpler. The two lower rolls are very similar to an adjustable V die, and the top roll can be operated like the ram of a press brake.

This machine is suitable for medium and thick plate bending.



PRE-BENDING ADVANTAGE

The top roll move up and down and



Position of the rolls for the pre-bending execution on the first edge of the plate. The right lateral roll supports the plate, while the left one works like a lower mold.

The top roll pushes directly on the first side of the plate deforming it according to the required radius. The top roll through its thrust force pushes the plate against the left lateral roll that, being displaced in respect to the top roll, allows the first side of the plate to get deformed. The bigger the top roll thrust is, the lower the flat-end and the plate bending radius are.

The edge is perfectly pre-bended due

to the difference between the two cen-

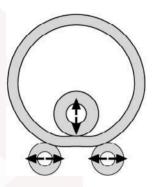
work like a press, and the two lower tral roll axis. rolls moves horizontally and independently one from the other

The pre-bending is performed by the top roll pushing directly against the first side of the plate, leaving a very short or null flat-end; the following rotation increases the curved initial side of the plate.





Another important feature of the R-HYBRID plate roll, is the press like system of the top forming roll. In fact, the top forming roll can be used as a traditional press allowing perfect re-rolling operation and calibration of thick plates. In the same way it is also possible to obtain cones with heavy thicknesses by bending the plate with several strokes.

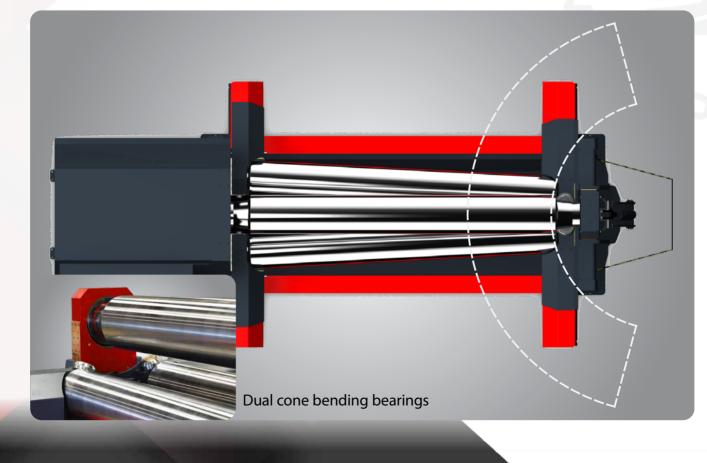






CONE BENDING

R-HYBRID plate rolls ability to tilt all 3 Axis allow for the best and easiest production of conical shapes. Material blank also moves linear through the machine and not radial as on 4 rolls and traditional 3 rolls







VARIABLE-GEOMETRY PLATE ROLLS TACKLE UNBELIEVABLY THICK PLATE

RMT-Seravasi heavy plate roll technology has grown to never seen before bend thickness capability. Machine pits are deeper, the frames more massive, the rolls ever larger. Certain machines have specifications stating they can roll plate of certain yield strengths to 4, 6, and 7, even 11 inches cold. Vessel designs that would have been forged just a decade ago are now being sent to fabrication houses. RMT R-HYBRID rolls, which really operates more like a press brake than a traditional plate roll, is making such extreme rolling possible.





R-HYBRID

MODEL Min. Int. Dia Oxis, 6 Oxis, 7 Circle 1 Oxis, 6 Oxis, 6 Oxis, 7 Oxis, 7 Oxis, 6 Oxis, 7 Oxis, 7 Oxis, 6 Oxis, 7 Oxis,						E E						<	: : :				19
MODEL Odx1,5 Odx5 Odx5 <thodx5< th=""> Odx5 Odx5 <</thodx5<>																	
MODEL TYPE Indiana																	
L2 (inch) t (inch) T (inch) Ø (inch) Ø (inch) US Tons A (inch) L1 (inch) W1 (inch) W2 (inch) H1 (inch) H2 (inch) L1bs (i)P (i)P R-HYBRID 8-1377 8' e" 1'' 1'''' 1'''' 1'''' 1'''' 1'''' 1'''' 1'''' 1'''' 1'''''''''''' 1''''''''''''''''''''''''''''''			Ødx1,5	Ødx5	Ødx5			e									city
R-HYBRID 8-1377 6' 6'' 3/4" 7/8" 1-1/8" 13.77" 12.99" 187 4" 192" 65" 106" 77" 49" 36,486 40 106 R-HYBRID 8-1575 8'6" 1" 13/16" 17/16" 16.4" 286 4.3/4" 220" 73" 114" 86" 57" 51,147 60 159 R-HYBRID 8-2205 8'6" 1 9/16" 1 7/8" 2 3/8" 22.05" 18.41" 352 5.3/8" 228" 78" 121" 94" 61" 67.241 75 198 R-HYBRID 10-1375 10' 2" 3/4" 1" 13.77" 12.99" 176 4" 214" 65" 106" 77" 49" 39,792 40 106 R-HYBRID 10-1375 10' 2" 3/4" 178" 13.77" 12.99" 165"						Top		Top Roll Bending	Max. Pass								
R.HYBRID 8-1575 6* 1** 1 3/16** 1 9/16** 1 5.75** 1 4.17** 231 4** 215** 65** 106** 77** 50** 40,786 50 106 R-HYBRID 8-1575 8*6** 1 3/16** 1 7/16** 1 7/16** 1 7/16** 1 7/15** 1 4.17** 231 4** 220* 73** 114** 86** 57** 51,147 60 159 R-HYBRID 8-1956 8*6** 1 9/16** 1 7/16** 2 5/32** 1 9.69** 1 8.1** 352 5-3/8** 228** 78** 1 21** 94** 61** 67.241 75 1 18 R-HYBRID 8-2005 8*6** 1 9/16** 1 7/16** 1 9.69** 4 84 6** 2 38** 89** 1 39** 1 05** 6 9** 3 3,696 60+25 2 38 R-HYBRID 10-1377 10*2** 5/6** 1 06** 77** 49** 3 3,792 40 1 06 R-HYBRID 10-1375 10*2** 1 3/4** 1 3/16** 1 5/6** 1 7.72** 1 6.54** 2 66 4 3/4* 2 40** 7 3*** <																	
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R.HYBRID 10.1575 10 2 3/4" 7/8" 1-1/8" 15.75" 14.17" 220 4" 234" 65" 106" 77" 50" 44,092 50 106 R-HYBRID 10-1772 10' 2" 1" 1 3/16" 1 5/8" 17.72" 16.54" 286 4-3/4" 240" 73" 114" 86" 57" 55,116 60 159 R-HYBRID 10-1969 10' 2" 1 3/16" 1 3/8" 1 7/8" 19.69" 18.11" 352 5-3/8" 248" 78" 121" 94" 61" 72.753 75 198 R-HYBRID 10-2205 10' 2" 1 3/8" 1 5/8" 2 1/2" 3" 24.40" 22.04" 616 7" 354" 111" 173" 78" 118" 143,000 60+60 238 R-HYBRID 10-2677 10' 2" 2 1/2" 3" 31/2" 26.2" 880 8" 362" 111" 173" 78" 118" 143,000 60+60 238 R-HYBRID 12-1377 12'1" 1/2" 5/8" 14'17" 13.62"																	
R-HYBRID 10-1772 10° 2" 1" 1 3/16" 1 5/8" 17.72" 16.54" 286 4-3/4" 240" 73" 114" 86" 57" 55,116 60 159 R-HYBRID 10-1969 10° 2" 1 3/16" 1 3/8" 1 7/8" 19.69" 18.11" 352 5-3/8" 248" 78" 121" 94" 61" 72,753 75 198 R-HYBRID 10-2205 10° 2" 1 3/8" 1 5/8" 2 5/32" 22.05" 19.69" 484 6" 258" 89" 139" 105" 69" 99.208 60+25 238 R-HYBRID 10-2440 10° 2" 2" 2 1/2" 3" 24.40" 22.04" 616 7" 354" 111" 173" 78" 118" 143,000 60+60 238 R-HYBRID 12-2677 10° 2" 2 1/2" 3" 3 1/2" 26.77" 23.62" 880 8" 362" 114" 178" 143,000 60+60 238 R-HYBRID 12-1377 12 1" 1/2" 5/8" 1" 15.75" 14.17" 176	R-HYBRID 10-1377	10' 2"	5/8"	3/4"	1"	13.77"	12.99"	176	4"	214"	65"	106"	77"	49"	39,792	40	106
R-HYBRID 10-1969 10° 2" 1 3/16" 1 3/8" 1 7/8" 19.69" 18.11" 352 5-3/8" 248" 78" 121" 94" 61" 72,753 75 198 R-HYBRID 10-2205 10° 2" 1 3/8" 1 5/8" 2 5/32" 22.05" 19.69" 484 6" 258" 89" 139" 105" 69" 99,208 60+25 238 R-HYBRID 10-2400 10' 2" 2" 2 1/2" 3" 24.40" 22.04" 616 7" 354" 111" 173" 78" 118" 143,000 60+60 238 R-HYBRID 10-2400 10' 2" 2 1/2" 3" 3 1/2" 26.77" 23.62" 880 8" 362" 114" 178" 80" 120" 165,000 75+75 238 R-HYBRID 12-1377 12' 1" 1/2" 5/8" 1" 13.77" 12.99" 150 4" 238" 65" 106" 77" 49" 45,406 40 106 R-HYBRID 12-1377 12' 1" 1/2" 5/8" 14.17" 176 <t< td=""><td>R-HYBRID 10-1575</td><td>10' 2"</td><td>3/4"</td><td>7/8"</td><td>1-1/8"</td><td>15.75"</td><td>14.17"</td><td>220</td><td>4"</td><td>234"</td><td>65"</td><td>106"</td><td>77"</td><td>50"</td><td>44,092</td><td>50</td><td>106</td></t<>	R-HYBRID 10-1575	10' 2"	3/4"	7/8"	1-1/8"	15.75"	14.17"	220	4"	234"	65"	106"	77"	50"	44,092	50	106
R.HYBRID 10-10205 10 2" 1 3/8" 1 5/8" 2 5/32" 22.05" 19.69" 484 6" 258" 89" 139" 105" 69" 99.208 60+25 238 R.HYBRID 10-2240 10' 2" 2" 2 1/2" 3" 24.40" 22.04" 616 7" 354" 111" 173" 78" 118" 143,000 60+60 238 R.HYBRID 10-2677 10' 2" 2 1/2" 3" 3 1/2" 26.77" 23.62" 880 8" 362" 114" 178" 80" 120" 165,000 75+75 238 R.HYBRID 10-2677 10' 2" 2 1/2" 3" 3 1/2" 26.77" 23.62" 880 8" 362" 114" 178" 80" 120" 165,000 75+75 238 R.HYBRID 12-1377 12'1" 1/2" 5/8" 3/4" 1" 15.75" 14.17" 176 4" 274" 65" 106" 77" 49" 45,406 40 106 R.HYBRID 12-1377 12'1" 3/4" 17.72" 16.54"	R-HYBRID 10-1772	10' 2"	1"	1 3/16"	1 5/8"	17.72"	16.54"	286	4-3/4"	240"	73"	114"	86"	57"	55,116	60	159
R.HYBRID 10-2440 10' 2" 2" 2 1/2" 3" 24.40" 22.04" 616 7" 354" 111" 173" 78" 118" 143,000 60+60 238 R.HYBRID 10-2440 10' 2" 2 1/2" 3" 3 1/2" 26.77" 23.62" 880 8" 362" 114" 178" 118" 143,000 60+60 238 R.HYBRID 10-2677 10' 2" 2 1/2" 3" 3 1/2" 26.77" 23.62" 880 8" 362" 114" 178" 80" 120" 165,000 75+75 238 R.HYBRID 12-1377 12' 1" 1/2" 5/8" 1" 13.77" 12.99" 150 4" 238" 65" 106" 77" 49" 45,406 40 106 R.HYBRID 12-1377 12' 1" 1/2" 5/8" 3/4" 1" 15.75" 14.17" 176 4" 274" 65" 106" 77" 49.706 50 106 R.HYBRID 12-1372 12' 1" 1/4" 13/4" 17.72" 16.54" 220 4-3/4" <td>R-HYBRID 10-1969</td> <td>10' 2"</td> <td>1 3/16"</td> <td>1 3/8"</td> <td>1 7/8"</td> <td>19.69"</td> <td>18.11"</td> <td>352</td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>198</td>	R-HYBRID 10-1969	10' 2"	1 3/16"	1 3/8"	1 7/8"	19.69"	18.11"	352		-	-		-				198
R.HYBRID 10-2677 10 2 2 1/2" 3" 3 1/2" 26.77" 23.62" 880 8" 362" 114" 178" 80" 120" 165,000 75+75 23.8 R-HYBRID 10-2677 10 2" 2 1/2" 3" 3 1/2" 26.77" 23.62" 880 8" 362" 114" 178" 80" 120" 165,000 75+75 23.8 R-HYBRID 12-1377 12'1" 1/2" 5/8" 1" 13.77" 12.99" 150 4" 238" 65" 106" 77" 49" 45,406 40 106 R-HYBRID 12-1575 12'1" 5/8" 3/4" 1" 15.75" 14.17" 176 4" 274" 65" 106" 77" 50" 49,706 50 106 R-HYBRID 12-1772 12'1" 3/4" 17/8" 17/72" 16.54" 220 4-3/4" 280" 73" 114" 86" 57" 58,084 60 159 R-HYBRID 12-205 12'1" 1 13/16" 19/16" 19.69" 18.11"	R-HYBRID 10-2205	10' 2"						-	-								
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R-HYBRID 12-1575 12'1" 5/8" 3/4" 1" 15.75" 14.17" 176 4" 274" 65" 106" 77" 50" 49,706 50 106 R-HYBRID 12-1575 12'1" 3/4" 7/8" 1-1/8" 17.72" 16.54" 220 4-3/4" 280" 73" 114" 86" 57" 58,084 60 159 R-HYBRID 12-1762 12'1" 1" 13/16" 19/16" 19.69" 18.11" 286 5-3/8" 287" 78" 121" 94" 61" 77,264 75 198 R-HYBRID 12-2205 12'1" 1 1/8" 11/4" 13/4" 22.05" 19.69" 385 6" 297" 89" 139" 105" 69" 103,940 60+25 238 R-HYBRID 12-2205 12'1" 11/8" 11/4" 13.77" 12.99" 150 4" 262" 65" 106" 77" 49" 46,406 40 106 R-HYBRID 14-1377 14'1" 1/2" 5/8" 1" 15.75" 14.17" 176		42141	4/0"	E /0"	4"	43 77"	42.00"	150	4"	220"	CE"	106"	77"	40"	45 400	40	106
R.HYBRID 12-1772 12' 1" 3/4" 7/8" 1-1/8" 17.72" 16.54" 220 4-3/4" 280" 73" 114" 86" 57" 58,084 60 159 R.HYBRID 12-1762 12' 1" 1" 1 3/16" 1 9/16" 19.69" 18.11" 286 5-3/8" 287" 78" 121" 94" 61" 77.264 75 198 R-HYBRID 12-2205 12' 1" 1 1/8" 1 1/4" 1 3/4" 22.05" 19.69" 385 6" 297" 89" 139" 105" 69" 103,940 60+25 238 R-HYBRID 14-1377 14' 1" 3/8" 1/2" 3/4" 13.77" 12.99" 150 4" 262" 65" 106" 77" 49" 46,406 40 106 R-HYBRID 14-1377 14' 1" 3/4" 13.77" 12.99" 150 4" 274" 65" 106" 77" 50" 52,706 50 106 R-HYBRID 14-1772						-								-		-	
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R-HYBRID 14-1969 14'1" 1" 1 3/16" 1 9/16" 19.69" 18.11" 286 5-3/8" 287" 78" 121" 94" 61" 80,264 75 198		14' 1"	1/2"	5/8"	1"	15.75"	14.17"	176	4"	274"	65"	106"	77"	50"	52,706	50	106
	R-HYBRID 14-1772	14' 1"		7/8"	1-1/8"	17.72"	16.54"	220	4-3/4"	280"	73"	114"	86"	57"	61,084	60	159
R-HYBRID 14-2205 14'1" 1 1/8" 1 1/4" 1 3/4" 22.05" 19.69" 385 6" 297" 89" 139" 105" 69" 106,940 60+25 238	R-HYBRID 14-1969	14' 1"	1"	1 3/16"	1 9/16"	19.69"	18.11"	286	5-3/8"	287"	78"	121"	94"	61"	80,264	75	198
	R-HYBRID 14-2205	14' 1"	1 1/8"	1 1/4"	1 3/4"	22.05"	19.69"	385	6"	297"	89"	139"	105"	69"	106,940	60+25	238

The values above as based on 38 KSI yield material. Different material widths and plate types can be calculated using the RMT Roll Bending Calculator. Conical bending capacities depend on cone angle and are half the above mentioned values. Motor power and machine weight will increase with optional features. Due to ongoing product development, specifications may change at any time.



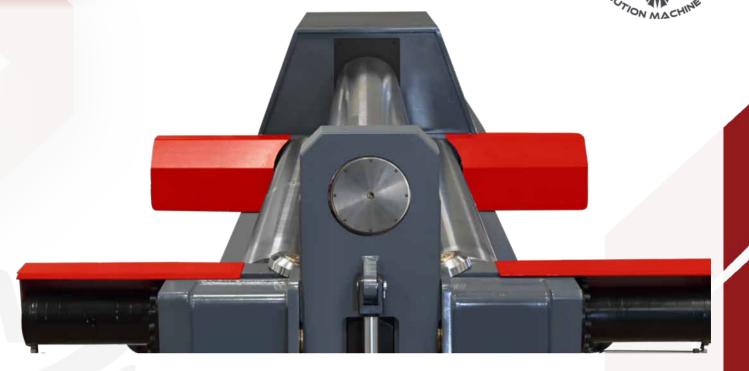
R-HYBRID - Planetary gearbox

Larger or Custom Machines Available



R-HYBRID





STANDARD

- · Variable geometry type rolls movement.
- PLC control unit
- Dual speed
- Cone bending with dual cone bending roller bearing
- Induction hardened rolls (HRC 54-58)
- AISI 1050 Carbon steel rolls machined by CNC Lathes with optimal crown (special crown upon request)
- Polished rolls
- Top and lower rolls electronically positioned and syn-
- chronized with PLC and high-end precision digital scales
- High stroke top roll
- Braking system on side rolls
- Protected slide surfaces
- Machine body constructed of stress-relieved high-yield steel
- Rolls seated in spherical bearings
- Top roll hydraulic opening device (drop end) with easy pull out system
- Top roll driven with hydraulic motor and planetary gear box
- Safety barrier
- Electrical and hydraulic protection against overloads
- World standard electrical and hydraulic components (parts stocked by RMT or available off-the-shelf from your local supplier)
- Adjustable hydraulic pressure on bottom roll (crowning compensation)
- Mobile control panel
- Manual lubrication
- Welding possibility on the machine

OPTIONAL

- NC Control Unit
- All axis positioning with adjustable speed on NC machines
- AISI 4140 High strength alloy steel rolls
- Ground rolls
- Variable speed control
- Wired or wireless remote
- Oil cooler
- Oil heater
- Hydraulic side support system (both sides)
- Vertical overhead support system
- Preparation for vertical support system
- Material feeding table (Idle or motorized)
- Plate alignment unit
- Separated power cabin
- Changeable top roll for smaller Diameter
- Automatic central lubrications
- Automation system
- Special roll crowning
- Special applications for wind tower production



CUSTOM SOLUTIONS

AUTOMATIC LIQUID TANK BENDING LINES



CUSTOM SOLUTIONS



WIND TOWER BENDING LINES

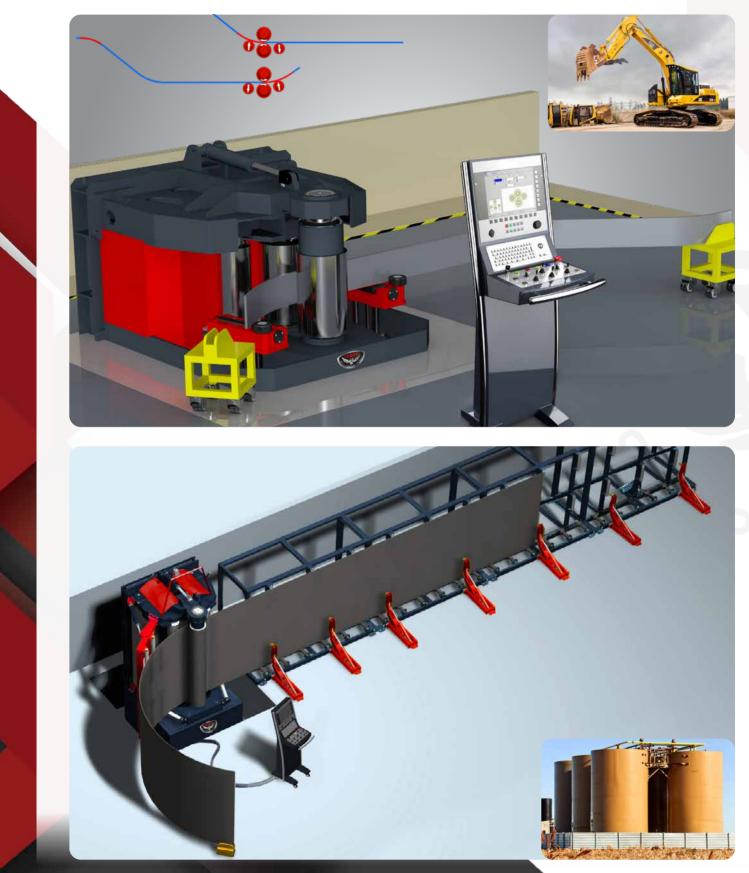


PIPE BENDING SOLUTION





VERTICAL BENDING SOLUTIONS



VERTICAL BENDING SOLUTIONS

AUTOMATIC VERTICAL COIL FEEDING, EDGE CUTTING, BENDING, WELDING SYSTEM



TRAFFIC BARRIER BENDING ROLL



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CORRUGATED SHEET BENDING MACHINE



SPACE ROCKET FUEL TANK BENDING MACHINE



Our team at RMT has developed some very unique / amazing solutions for the aerospace industry.

RETROFIT OLD MACHINES



BEFORE











AFTER











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EQUIVALENT CHART

Inc	hes	Metric	Inci	nes	Metric	Incl	hes	Metric	Incl	hes	Metric
Fractional	Decimal	mm	Fractional	Decimal	mm	Fractional	Decimal	mm	Fractional	Decimal	mm
	0.0039	0.1000	3/8	0.3750	9.5250	59/64	0.9219	23.4156		2.6378	67.0000
	0.0079	0.2000	25/64	0.3906	9.9219		0.9252	23.5000		2.6772	68.0000
	0.0118	0.3000	20/01	0.3937	10.0000	15/16	0.9375	23.8125		2.7165	69.0000
1/64	0.0118	0.3969	13/32			15/10	0.9449	24.0000	2 3/4	2.7500	
1/04			13/32	0.4063	10.3188				2 3/4		69.8500
	0.0157	0.4000		0.4134	10.5000	61/64	0.9531	24.2094		2.7559	70.0000
	0.0197	0.5000	27/64	0.4219	10.7156		0.9646	24.5000		2.7953	71.0000
	0.0236	0.6000		0.4331	11.0000	31/32	0.9688	24.6063		2.8346	72.0000
	0.0276	0.7000	7/16	0.4375	11.1125		0.9843	25.0000		2.8740	73.0000
1/32	0.0313	0.7938		0.4528	11.5000	63/64	0.9844	25.0031		2.9134	74.0000
	0.0315	0.8000	29/64	0.4531	11.5094	1	1.0000	25.4000		2.9528	75.0000
	0.0354	0.9000	15/32	0.4688	11.9063		1.0039	25.5000		2.9921	76.0000
	0.0394	1.0000	10/02	0.4724	12.0000	· ·	1.0236	26.0000	3	3.0000	76.2000
									3		
	0.0433	1.1000	31/64	0.4844	12.3031	•	1.0433	26.5000	•	3.0315	77.0000
3/64	0.0469	1.1906		0.4921	12.5000		1.0630	27.0000		3.0709	78.0000
	0.0472	1.2000	1/2	0.5000	12.7000		1.0827	27.5000		3.1102	79.0000
	0.0512	1.3000		0.5118	13.0000		1.1024	28.0000		3.1496	80.0000
	0.0551	1.4000	33/64	0.5156	13.0969		1.1220	28.5000		3.1890	81.0000
	0.0591	1.5000	17/32	0.5313	13.4938		1.1417	29.0000		3.2283	82.0000
1/16	0.0625	1.5875		0.5315	13.5000		1.1614	29.5000		3.2677	83.0000
1/10	0.0630	1.6000	35/64	0.5469	13.8906	· ·	1.1811	30.0000		3.3071	84.0000
· · · ·	0.0630	1.6000	33/04	0.5469	14.0000	· · ·	1.1011	31.0000	· ·	3.3465	85.0000
	0.0709	1.8000	9/16	0.5625	14.2875	1 1/4	1.2500	31.7500		3.3858	86.0000
	0.0748	1.9000		0.5709	14.5000		1.2598	32.0000		3.4252	87.0000
5/64	0.0781	1.9844	37/64	0.5781	14.6844		1.2992	33.0000		3.4646	88.0000
	0.0787	2.0000		0.5906	15.0000		1.3386	34.0000	3 1/2	3.5000	88.9000
	0.0827	2.1000	19/32	0.5938	15.0813		1.3780	35.0000		3.5039	89.0000
	0.0866	2.2000	39/64	0.6094	15.4781		1.4173	36.0000		3.5433	90.0000
	0.0906	2.3000		0.6102	15.5000		1.4567	37.0000		3.5827	91.0000
3/32	0.0938	2.3813	5/8	0.6250	15.8750		1.4961	38.0000	· ·	3.6220	92.0000
3/32			5/6	0.6299							
	0.0945	2.4000			16.0000	1 1/2	1.5000	38.1000	•	3.6614	93.0000
	0.0984	2.5000	41/64	0.6406	16.2719		1.5354	39.0000		3.7008	94.0000
7/64	0.1094	2.7781		0.6496	16.5000		1.5748	40.0000		3.7402	95.0000
	0.1181	3.0000	21/32	0.6563	16.6688		1.6142	41.0000		3.7795	96.0000
1/8	0.1250	3.1750		0.6693	17.0000		1.6535	42.0000		3.8189	97.0000
	0.1378	3.5000	43/64	0.6719	17.0656		1.6929	43.0000		3.8583	98.0000
9/64	0.1406	3.5719	11/16	0.6875	17.4625		1.7323	44.0000		3.8976	99.0000
5/32	0.1563	3.9688		0.6890	17.5000	1 3/4	1.7500	44.4500		3.9370	100.0000
0/02	0.1575	4.0000	45/64	0.7031	17.8594	1 0/4	1.7717	45.0000	4	4.0000	101.6000
11/64	0.1719	4.3656	43/04	0.7087	18.0000	•	1.8110	46.0000		4.3307	110.0000
11/04											
	0.1772	4.5000	23/32	0.7188	18.2563		1.8504	47.0000	4 1/2	4.5000	114.3000
3/16	0.1875	4.7625		0.7283	18.5000		1.8898	48.0000		4.7244	120.0000
	0.1969	5.0000	47/64	0.7344	18.6531		1.9291	49.0000	5	5.0000	127.0000
13/64	0.2031	5.1594		0.7480	19.0000		1.9685	50.0000		5.1181	130.0000
	0.2165	5.5000	3/4	0.7500	19.0500	2	2.0000	50.8000		5.5118	140.0000
7/32	0.2188	5.5563	49/64	0.7656	19.4469		2.0079	51.0000		5.9055	150.0000
15/64	0.2344	5.9531		0.7677	19.5000		2.0472	52.0000	6	6.0000	152.4000
	0.2362	6.0000	25/32	0.7813	19.8438	· · · · · ·	2.0866	53.0000	, in the second s	6.2992	160.0000
1/4	0.2500	6.3500	20/02	0.7874	20.0000	· · ·	2.1260	54.0000		6.6929	170.0000
	0.2559		51/64	0.7969	20.0000	· · ·	2.1200	55.0000		7.0866	
47/04		6.5000	51/04			· ·					180.0000
17/64	0.2656	6.7469	·	0.8071	20.5000		2.2047	56.0000		7.4803	190.0000
	0.2756	7.0000	13/16	0.8125	20.6375		2.2441	57.0000		7.8740	200.0000
9/32	0.2813	7.1438		0.8268	21.0000	2 1/4	2.2500	57.1500	8	8.0000	203.2000
	0.2953	7.5000	53/64	0.8281	21.0344		2.2835	58.0000		9.8425	250.0000
19/64	0.2969	7.5406	27/32	0.8438	21.4313		2.3228	59.0000	10	10.0000	254.0000
5/16	0.3125	7.9375		0.8465	21.5000		2.3622	60.0000	20	20.0000	508.0000
	0.3150	8.0000	55/64	0.8594	21.8281		2.4016	61.0000	30	30.0000	762.0000
21/64	0.3281	8.3344	00/04	0.8661	22.0000	· · ·	2.4409	62.0000	40	40.0000	1016.0000
21/04	0.3281	8.5000	7/8	0.8750	22.0000	· · ·	2.4409	63.0000	60	60.0000	1524.0000
			1/8								
11/32	0.3438	8.7313		0.8858	22.5000	2 1/2	2.5000	63.5000	80	80.0000	2032.0000
	0.3543	9.0000	57/64	0.8906	22.6219	· ·	2.5197	64.0000	100	100.0000	2540.0000
23/64	0.3594	9.1281	· ·	0.9055	23.0000	· ·	2.5591	65.0000			
	0.3740	9.5000	29/32	0.9063	23.0188		2.5984	66.0000			

Ga	luge	Stainless	Galvanized	Sheet Steel	Aluminum	Ga	uge	Stainless	Galvanized	Sheet Steel	Aluminum
	Fraction	inches (mm)	inches (mm)	inches (mm)	inches (mm)		Fraction	inches (mm)	inches (mm)	inches (mm)	inches (mm)
30		0.0125 (0.33)	0.0157 (0.40)	0.0120 (0.30)	0.0100 (0.25)	16	1/16	0.0625 (1.59)	0.0635 (1.61)	0.0598 (1.52)	0.0508 (1.29)
29		0.0141 (0.36)	0.0172 (0.44)	0.0135 (0.34)	0.0113 (0.29)	15		0.0703 (1.8)	0.0710 (1.80)	0.0673 (1.71)	0.0571 (1.4)
28	1/64	0.0156 (0.41)	0.0187 (0.47)	0.0149 (0.38)	0.0126 (0.32)	14	5/64	0.0781 (1.98)	0.0785 (1.99)	0.0747 (1.90)	0.0641 (1.63)
27		0.0172 (0.43)	0.0202 (0.51)	0.0164 (0.42)	0.0142 (0.36)	13	3/32	0.094 (2.4)	0.0934 (2.37)	0.0897 (2.28)	0.072 (1.8)
26		0.0187 (0.48)	0.0217 (0.55)	0.0179 (0.45)	0.0159 (.40)	12	7/64	0.1094 (2.78)	0.1084 (2.75)	0.1046 (2.66)	0.0808 (2.05)
25		0.0219 (0.56)	0.0247 (0.63)	0.0209 (0.53)	0.0179 (0.46)	11	1/8	0.1250 (3.18)	0.1233 (3.13)	0.1196 (3.04)	0.0907 (2.30)
24		0.025 (0.64)	0.0276 (0.70)	0.0239 (0.61)	0.0201 (0.51)	10	9/64	0.1406 (3.57)	0.1382 (3.51)	0.1345 (3.42)	0.1019 (2.59)
23		0.0281 (0.71)	0.0306 (0.78)	0.0269 (0.68)	0.0226 (0.58)	9	5/32	0.1563 (3.97)	0.1532 (3.89)	0.1495 (3.80)	0.1144 (2.91)
22	1/32	0.0312 (0.79)	0.0336 (0.85)	0.0299 (0.76)	0.0253 (0.64)	8	11/64	0.1719 (4.37)	0.1681 (4.27)	0.1644 (4.18)	0.1285 (3.26)
21		0.0344 (0.86)	0.0366 (0.93)	0.0329 (0.84)	0.0285 (0.71)	7	3/16	0.1875 (4.76)		0.1793 (4.55)	0.1443 (3.67)
20		0.0375 (0.95)	0.0396 (1.01)	0.0359 (0.91)	0.0320 (0.81)	6	13/64	0.2031		0.1943 (4.94)	0.162 (4.1)
19		0.0437 (1.1)	0.0456 (1.16)	0.0418 (1.06)	0.0359 (0.91)	5	7/32	0.2187		0.2092 (5.31)	0.1819
18		0.0500 (1.27)	0.0516 (1.31)	0.0478 (1.21)	0.0403 (1.02)	4	15/64	0.2344		0.2242 (5.69)	0.2043
17		0.0562 (1.4)	0.0575 (1.46)	0.0538 (1.37)	0.0453 (1.1)	3	1/4	0.25		0.2391 (6.07)	0.2294

ASTM SPECIFICATIONS



V	DESCRIPTION	GRADE	TENSILE STRENGTH K.S.I.	YIELD STRENGTH K.S.I.
A-36	STRUCTURAL STEEL	-	60	36
A-131	STRUCTURAL STEEL FOR SHIPS	-	71	34
A-242	HIGH-STRENGTH LOW-ALLOY STRUCTURAL STEEL	-	70	50
A-283 GRADE A		A	55	24
A-283 GRADE B	LOW & INTERMEDIATE TENSILE STRENGTH CARBON STEEL PLATES OF STRUCTURAL	В	60	27
A-283 GRADE C	QUALITY	С	65	30
A-283 GRADE D		D	72	33
A-285 GRADE A		А	65	24
A-285 GRADE B	LOW & INTERMEDIATE TENSILE STRENGTH CARBON STEEL PLATES FOR PRESSURE VESSEL	В	70	27
A-285 GRADE C		С	75	30
A-299	CARBON MANGANESE SILICON STEEL PLATE FOR PRESSURE VESSELS	-	95	42
A-514	HIGH-YIELD STRENGTH, QUENCHED AND TEMPERED ALLOY STEEL PLATE SUITABLE FOR WELDING	-	130	100
A-515 GRADE 55		55	75	30
A-515 GRADE 60	CARBON STEEL PLATES FOR INTERMEDIATE AND HIGHER TEMPERATURE SERVICE FOR	60	80	32
A-515 GRADE 65	PRESSURE VESSELS	65	85	35
A-515 GRADE 70		70	90	38
A-516 GRADE 55		55	75	30
A-516 GRADE 60	CARBON STEEL PLATES FOR MODERATE AND LOWER TEMPERATURE SERVICE FOR PRES-	60	80	32
A-516 GRADE 65	SURE VESSELS	65	85	35
A-516 GRADE 70		70	90	38
A-517	HIGH STRENGTH, ALLOY STEEL QUENCHED AND TEMPERED PLATES FOR PRESSURE VESSEL	-	135	100
A-537 CLASS I		CLASS I	90	50
A-537 CLASS II	HEAT TREATED, CAR- BON MANGANESE-SILI- CON STEEL PLATE FOR PRESSURE VESSEL	CLASS II	100	60
A-572 GRADE 42		42	60	42
A-572 GRADE 50		50	65	50
A-572 GRADE 60	HIGH-STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STEELS OF STRUCTURAL QUALITY	60	75	60
A-572 GRADE 65		65	80	65
A-588	HIGH-STRENGTH LOW-ALLOY STRUCTURAL STEEL	ALL	70	50
A-606 H.R.	STRIP, HOT ROLLED AND COLD ROLLED, HIGH -STRENGTH, LOW-ALLOY WITH	H.R.	70	50
A-606 C.R.	IMPROVED CORROSION RESISTANCE	C.R. ANNEAL. NORM.	65	45
A-633 GRADE A-B		A-B	83	42
A-633 GRADE C-D	NORMALIZED HIGH- STRENGTH LOW-ALLOY STRUCTURAL STEEL	C-D	90	50
A-633 GRADE E		E	100	60
A-656 GRADE 50		50	60	50
A-656 GRADE 60	HOT-ROLLED STRUCTURAL STEEL, HIGH-STRENGTH LOW-ALLOY STEEL PLATE WITH	60	70	60
A-656 GRADE 70	IMPROVED FORMABILITY	70	80	70
A-656 GRADE 80		80	90	80
STAINLESS STEEL	302, 304, 304L,316, & 316L	302, 304, 304L,316, & 316L	90	54
ALUM. 3004-H34	3004-H34	3004-H34	35	21
ALUM. 5052-H32	5052-H32	5052-H32	33	28
ALUM. 6061-T6	6061-T6	6061-T6	42	37
Weldox 700	Weldox 700 is a general structural steel with a minimum yield strength of 95 - 100 Ksi depending on thickness. Typical applications are demanding loadbearing structures.		125	100
Weldox 900/960	Weldox 960 is a general structural steel with a minimum yield strength of 120 - 140 Ksi depending on thickness. Typical applications are demanding loadbearing structures.		155	140
Weldox 1100	Weldox 1100 is a general structural steel with a minimum yield strength of 160 Ksi. Typical applications are demanding loadbearing structures.		195	160
Hardox 400	Hardox 400 is the wear resistant steel for combined payload and service life solutions.		185	145
Hardox 450	450 is an abrasion resistant steel with a nominal hardness of 450 HBW. Typical applicati- ons are components and structuressubject to wear.		205	175
Hardox 500	Hardox 500 is an abrasion resistant steel with a nominal hardness of 500 HBW. Typical applications are components and structures subject to wear.		225	185





Hydraulic Presses

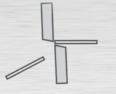
Fiber Lasers



PSM Pipe Lathe







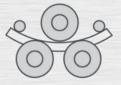
Shears



Ironworkers







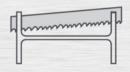


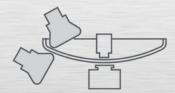
Plate Rolls

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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