



# R-GENIUS SERIES

Hydraulic Rectilinear Type Four Rolls

## STANDARD

- PLC Unit
- Cone bending
- Polished rolls
- Induction hardened rolls (HRC 56±4)
- Rectilinear guide system
- Variable speed control of all axis (NC/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
- Hydraulic tiltable top roll and bracket (drop end) with easy pull out system
- Bottom and side rolls electronically synchronized with PLC and high-end precision linear encoders
- Bottom and top 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
- Welding possibility on the machine
- Manual lubrication points
- CE norms.



## OPTIONAL

- NC Unit
- CNC Unit
- 4 rolls drive
- Oil Cooler or heater
- Side support system (both sides)
- Vertical hydraulic overhead support system
- Preparation for side or vertical support system
- NC inclusion for vertical support control (Avail. on CNC)
- NC inclusion for side support control (Avail. on CNC)
- Changeable top roll for smaller diameters
- Material feeding table (Idle or motorized)
- Wireless remote control
- Loading and unloading automation
- Special roll crowning
- Special plate support systems
- Special applications for wind-tower production

R-GENIUS SERIES	Min. Int. Dia Ø Dmin										Working Height C (inch)	Weight (LBS)	Motor Power (HP)	Hydraulic Tank Capacity (Gal)
	Bending Length L (inch)	Ødx1,5	Ødx5	Ødx5	Central Rolls Dia. Ød (inch)	Side Rolls Dia. Ø (inch)	Max. Pass Through A (inch)	Length L (inch)	Width W (mm)	Height H (inch)				
		Pre-Bending Capacity t (inch)	Pre-Bending Capacity t (inch)	Bending Capacity T (inch)										
R-GENIUS 6-1024	6' 10"	11/32"	5/8"	3/4"	10.24"	7.48"	2"	173"	65"	65"	48"	19,842	15	79
R-GENIUS 6-1181	6' 10"	1/2"	5/8"	3/4"	11.81"	8.66"	2-3/4"	173"	65"	65"	47"	22,046	20	79
R-GENIUS 6-1299	6' 10"	5/8"	3/4"	15/16"	12.99"	9.45"	3-1/8"	181"	76"	78"	56"	24,251	25	106
R-GENIUS 6-1378	6' 10"	3/4"	15/16"	1-3/16"	13.78"	9.84"	3-1/8"	181"	76"	78"	56"	26,455	30	106
R-GENIUS 6-1496	6' 10"	7/8"	1-3/16"	1-1/2"	14.96"	10.63"	3-1/8"	183"	88"	90"	66"	35,274	40	132
R-GENIUS 6-1654	6' 10"	1-3/16"	1-1/2"	1-11/16"	16.54"	11.42"	3-1/8"	183"	88"	90"	65"	37,479	50	132
R-GENIUS 6-1811	6' 10"	1-3/8"	1-5/8"	1-7/8"	18.11"	14.17"	3-1/2"	185"	91"	94"	71"	58,202	50+30	198
R-GENIUS 6-1969	6' 10"	1-11/16"	2"	2-5/32"	19.69"	15.35"	4"	185"	91"	94"	70"	67,021	60+30	198
R-GENIUS 6-2165	6' 10"	2"	2-1/4"	2-7/16"	21.65"	16.54"	5-1/2"	226"	114"	116"	76"	89,287	50+50	198
R-GENIUS 8-1024	8' 6"	9/32"	11/32"	1/2"	10.24"	7.48"	2"	193"	65"	65"	48"	21,716	15	79
R-GENIUS 8-1181	8' 6"	3/8"	1/2"	5/8"	11.81"	8.66"	2-3/4"	193"	65"	65"	47"	24,251	20	79
R-GENIUS 8-1299	8' 6"	1/2"	5/8"	3/4"	12.99"	9.45"	3-1/8"	201"	76"	78"	56"	26,455	25	106
R-GENIUS 8-1378	8' 6"	5/8"	3/4"	1"	13.78"	9.84"	3-1/8"	201"	76"	78"	56"	28,660	30	106
R-GENIUS 8-1496	8' 6"	3/4"	15/16"	1-3/16"	14.96"	10.63"	3-1/8"	203"	88"	90"	66"	38,581	30	132
R-GENIUS 8-1654	8' 6"	15/16"	1-3/16"	1-3/8"	16.54"	11.42"	3-1/8"	203"	88"	90"	65"	41,888	40	132
R-GENIUS 8-1811	8' 6"	1-3/16"	1-3/8"	1-5/8"	18.11"	14.17"	3-1/2"	205"	91"	94"	71"	64,375	40+30	198
R-GENIUS 8-1969	8' 6"	1-1/2"	1-3/4"	2"	19.69"	15.35"	4"	205"	91"	94"	70"	73,193	50+30	198
R-GENIUS 8-2165	8' 6"	1-3/4"	2"	2-5/32"	21.65"	16.54"	5-1/2"	246"	114"	116"	76"	97,003	50+50	198
R-GENIUS 10-1024	10' 2"	1/4"	5/16"	3/8"	10.24"	7.48"	2"	213"	65"	65"	48"	23,589	15	79
R-GENIUS 10-1181	10' 2"	5/16"	3/8"	1/2"	11.81"	8.66"	2-3/4"	213"	65"	65"	47"	26,455	15	79
R-GENIUS 10-1299	10' 2"	3/8"	1/2"	5/8"	12.99"	9.45"	3-1/8"	220"	76"	78"	56"	28,660	20	106
R-GENIUS 10-1378	10' 2"	1/2"	5/8"	3/4"	13.78"	9.84"	3-1/8"	220"	76"	78"	56"	30,865	25	106
R-GENIUS 10-1496	10' 2"	5/8"	3/4"	1"	14.96"	10.63"	3-1/8"	222"	88"	90"	66"	41,888	30	132
R-GENIUS 10-1654	10' 2"	3/4"	1"	1-3/16"	16.54"	11.42"	3-1/8"	222"	88"	90"	65"	46,297	40	132
R-GENIUS 10-1811	10' 2"	1"	1-3/16"	1-3/8"	18.11"	14.17"	3-1/2"	224"	91"	94"	71"	70,548	40+30	198
R-GENIUS 10-1969	10' 2"	1-1/4"	1-1/2"	1-5/8"	19.69"	15.35"	4"	224"	91"	94"	70"	79,366	50+30	198
R-GENIUS 10-2165	10' 2"	1-9/16"	1-3/4"	2"	21.65"	16.54"	5-1/2"	266"	114"	116"	76"	104,720	40+40	198
R-GENIUS 10-2520	10' 2"	2"	2-11/32"	2-3/4"	25.20"	19.69"	6"	283"	128"	128"	87"	147,710	60+60	449
R-GENIUS 10-2992	10' 2"	2-3/4"	3-1/8"	3-1/2"	29.92"	23.62"	7-1/2"	283"	150"	169"	130"	220,462	75+75	581
R-GENIUS 13-1024	13' 5"	1/8"	3/16"	9/32"	10.24"	7.48"	2"	252"	65"	65"	48"	27,337	15	79
R-GENIUS 13-1181	13' 5"	5/32"	1/4"	5/16"	11.81"	8.66"	2-3/4"	252"	65"	65"	47"	30,865	15	79
R-GENIUS 13-1299	13' 5"	1/4"	5/16"	3/8"	12.99"	9.45"	3-1/8"	260"	76"	78"	56"	33,069	20	106
R-GENIUS 13-1378	13' 5"	5/16"	3/8"	1/2"	13.78"	9.84"	3-1/8"	260"	76"	78"	56"	35,274	20	106
R-GENIUS 13-1496	13' 5"	3/8"	1/2"	5/8"	14.96"	10.63"	3-1/8"	262"	88"	90"	66"	48,502	25	132
R-GENIUS 13-1654	13' 5"	1/2"	5/8"	3/4"	16.54"	11.42"	3-1/8"	262"	88"	90"	65"	55,116	30	132
R-GENIUS 13-1811	13' 5"	5/8"	3/4"	15/16"	18.11"	14.17"	3-1/2"	264"	91"	94"	71"	82,894	40	198
R-GENIUS 13-1969	13' 5"	3/4"	7/8"	1-1/8"	19.69"	15.35"	4"	264"	91"	94"	70"	91,712	50	198
R-GENIUS 13-2165	13' 5"	1"	1-1/8"	1-7/16"	21.65"	16.54"	5-1/2"	305"	114"	116"	76"	120,152	40+30	198
R-GENIUS 20-1378	20'	5/32"	1/4"	5/16"	13.78"	9.84"	3-1/8"	339	76	78	56	44,092	20	106
R-GENIUS 20-1496	20'	1/4"	5/16"	3/8"	14.96"	10.63"	3-1/8"	341	88	90	66	61,729	25	132
R-GENIUS 20-1654	20'	5/16"	3/8"	1/2"	16.54"	11.42"	3-1/8"	341	88	90	65	68,343	30	132
R-GENIUS 20-1811	20'	3/8"	1/2"	5/8"	18.11"	14.17"	3-1/2"	343	91	94	71	105,822	40	198
R-GENIUS 20-1969	20'	1/2"	5/8"	3/4"	19.69"	15.35"	4"	343	91	94	70	114,640	50	198
R-GENIUS 20-2165	20'	5/8"	3/4"	15/16"	21.65"	16.54"	5-1/2"	384	114	116	76	149,914	40+30	198