Extensive studies on the materials used and their dimensioning ensure that the ROCCIA plate rolls can never be thrown into crisis, even when they perform the toughest jobs. Increased structural sections, high driving torque and thrust of bending rolls and strong and efficient support of the machine yoke, these expedients guarantee a greater rigidity of the machine during cone rolling process.

Reliability

Reliability is achieved by attention to many details, such as: • It is important to maintain a regulated hydraulic oil temperature, if the a hydraulic oil system overheats, it then reduces plate roll performance. ROCCIA plate rolls are fitted with an oil cooling heat exchanger, monitored by electronic indicators. • Electronic indicators for low hydraulic oil level and filter failure due to excessive debris contamination [clogging]. • Every design calculation of a **ROCCIA** machine is generously increased by 20% to ensure that a ROCCIA plate roll-



to withstand the occasional overload.

Experience does matter. At ROCCIA we have a group of experienced engineers designers and specialized build personnel, who combine together to obtain the best out of every single project.

 Stock parts and after sales service support • ROCCIA is aware how important it is to resolve breakdown issues & quickly resume production. Thanks to our in house technicians, stock parts & worldwide dealer organization, we offer a responsive & quick feed back to minimise any machine

down time.

Your choice to superior productivity & reliability, it has to be ROCCIA Rundbiegen.

All the steel parts required are produced on modern CNC machinery to ensure consistant within tolerance results. Pivot points for the connection of the swing arm system, hydraulic cylinders, the *yoke*, utilize high static load bearings and (self-lubricating bushings), being virtually maintenance free

Encoders are attached to each end of the pinch side rolls, these encoders are used to individually monitor each pinch side rolls position and paralessism relative to the top roll. The encoders operate in unison with the machines PLC and electro-hydraulic valving.

The PLC receives inputs from the encoders, recognising the actual position against a required position, the PLC sends a control voltage to the electro-hydraulic valve(s), the electro valving then is activated to adjust the hydraulic oil flow to the pinch side rolls to maintain or move to a desired DRO or CNC axis position.

Info and contacts: **ROCCIASRL.COM**



ing machine works below max capacity, but has a capacity • Thermal overlad indicators protect the electrical circuits.



• Superior quality, reliability and performance

MACHINE MODEL	PLATE LENGTH		BENDING THICKNESS (5xTR)		THIC	PRE-BENDING THICKNESS (5xTR)		BENDING THICKNESS (1,1xTR)		PRE-BENDING THICKNESS (1,1xTR)		TOP ROLL DIAMETER	
HR3W2006	2050	80,71"	6	0,24"	4	0,16"	3,9	0,154"	2,6	0,102"	160	6,30"	
HR3W2008	2050	80,71"	8	0,31"	6	0,24"	5,2	0,205"	3,9	0,154"	190	7,48"	
HR3W2010	2050	80,71"	10	0,39"	8	0,31"	6,5	0,256"	5,2	0,205"	210	8,27"	
HR3W2013	2050	80,71"	13	0,51"	10	0,39"	8,45	0,333"	6,5	0,256"	230	9,06"	
HR3W2018	2050	80,71"	18	0,71"	14	0,55"	11,7	0,461"	9,1	0,358"	260	10,24	
HR3W2020	2050	80,71"	20	0,79"	16	0,63"	13	0,512"	10,4	0,409"	270	10,63	
HR3W2025	2050	80,71"	25	0,98"	20	0,79"	16,25	0,640"	13	0,512"	300	11,81	
HR3W2030	2050	80,71"	30	1,18"	25	0,98"	19,5	0,768"	16,25	0,640"	330	12,99	
HR3W2040	2050	80,71"	40	1,57"	30	1,18"	26	1,024"	19,5	0,768"	380	14,96	
HR3W2050	2050	80,71"	50	1,97"	40	1,57"	32,5	1,280"	26	1,024"	430	16,93	
HR3W2080	2050	80,71"	80	3,15"	60	2,36"	52	2,047"	39	1,535"	550	21,65	
HR3W2506	2600	102,36"	6	0,24"	4	0,16"	3,9	0,154"	2,6	0,102"	190	7,48"	
HR3W2508	2600	102,36"	8	0,31"	6	0,24"	5,2	0,205"	3,9	0,154"	200	7,87"	
HR3W2510	2600	102,36"	10	0,39"	8	0,31"	6,5	0,256"	5,2	0,205"	210	8,27"	
HR3W2513	2600	102,36"	13	0,51"	10	0,39"	8,45	0,333"	6,5	0,256"	240	9,45"	
HR3W2516	2600	102,36"	16	0,63"	13	0,51"	10,4	0,409"	8,45	0,333"	260	10,24	
HR3W2522	2600	102,36"	22	0.87"	16	0,63"	14,3	0,563"	10,4	0,409"	320	12,60	
HR3W2525	2600	102.36"	25	0,98"	20	0,79"	16,25	0.640"	13	0.512"	330	12,99	
HR3W2530	2600	102,36"	30	1,18"	25	0,98"	19,5	0,768"	16.25	0,640"	350	13,78	
HR3W2535	2600	102,36"	35	1,38"	30	1,18"	22,75	0,896"	19,5	0,768"	370	14,57	
HR3W2540	2600	102,36"	40	1,57"	32	1,26"	26	1.024"	19,5	0,768"	400	15,75	
HR3W2550	2600	102.36"	50	1,97"	40	1,57"	32,5	1,280"	26	1,024"	450	17,72	
HR3W3006	3100	122,05"	6	0,24"	4	0.16"	3,9	0,154"	2,6	0,102"	200	7,87	
HR3W3008	3100	122,05"	8	0,24	6	0,24"	5,2	0,205"	3,9	0,154"	220	8.66"	
HR3W3010	3100	122,05"	10	0,39"	8	0,21"	6,5	0,256"	5,2	0,205"	240	9,45'	
HR3W3013	3100	122,05"	13	0,51"	10	0,39"	8,45	0,333"	6,5	0,256"	280	11.02	
HR3W3016	3100	122,05"	16	0,63"	12	0,47"	10,4	0,409"	7,8	0,307"	300	11.81	
HR3W3020	3100	122,05"	20	0,79"	16	0,63"	13	0,512"	10,4	0,409"	340	13.39	
HR3W3025	3100	122,05"	25	0,98"	20	0,79"	16,25	0,640"	13	0,512"	370	14,57	
HR3W3032	3100	122,05"	32	1,26"	25	0,98"	20,8	0,819"		0,640"	400	15.75	
HR3W3040	3100	122,05"	40	1,57"	30	1,18"	20,0	1,024"	19,5	0,768"	400	17,72	
HR3W3045	3100	122,05"	40	1,77"	35	1,18	20	1,024		0,700	430	18.90	
HR3W3050	3100	122,05"	50	1,97"	40	1,57"	32,5	1,280"	26	1,024"	510	20,08	
HR3W3060 HR3W3070	3100	122,05"	60	2,36"	50	1,97"	39	1,535"	32,5	1,280"	600	23,62	
HR3W3070	3100	122,05"	70	2,76"	55 60	2,17"	45,5	1,791"		1,407"	680	26,77	
	3100	122,05"	80	3,15"	60	2,36"	52	2,047"	39	1,535"	750	29,53	
HR3W3090	3100	122,05"	90	3,54"	70	2,76"	58,5	2,303"	45,5	1,791"	780	30,71	
HR3W30110	3100	122,05"	110	4,33"	80	3,15"	71,5	2,815"	52	2,047"	820	32,28	
HR3W30125	3100	122,05"		4,92"	100	3,94"	81,25	3,199"	65	2,559"	940	37,01	
HR3W30150	3100	122,05"	150	5,91"	120	4,72"	97,5	3,839"	78	3,071"	1000	39,37	
HR3W4006	4100	161,42"	6	0,24"	4	0,16"	3,9	0,154"	2,6	0,102"	240	9,45"	
HR3W4008	4100	161,42"	8	0,31"	6	0,24"	5,2	0,205"	3,9	0,154"	270	10,63	
HR3W4010	4100	161,42"	10	0,39"	8	0,31"	6,5	0,256"	5,2	0,205"	320	12,60	
HR3W4012	4100	161,42"	12	0,47"	10	0,39"	7,8	0,307"	6,5	0,256"	340	13,39	
HR3W4016	4100	161,42"	16	0,63"	14	0,55"	10,4	0,409"	9,1	0,358"	380	14,96	
HR3W4020	4100	161,42"	20	0,79"	16	0,63"	13	0,512"	10,4	0,409"	410	16,14	
HR3W4025	4100	161,42"	25	0,98"	20	0,79"	16,25	0,640"	13	0,512"	460	18,11	
HR3W4032	4100	161,42"	32	1,26"	25	0,98"	20,8	0,819"	16,25	0,640"	510	20,08	
HR3W4040	4100	161,42"	40	1,57"	32	1,26"	26	1,024"	20,8	0,819"	580	22,83	



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HR3WR 3 ROLL



HR3WR 3040

HR3WR 3040

PERFECTION DOES NOT ALLOW FOR COMPROMISE



Style

The **ROCCIA** plate rolls modern design lines subtly communicate that here is a high tech plate rolling machine that will deliver exactly what its specification states: a high tech specification, proven and reliable components, robustness of construction, ease of use, value for your money. From first sight the ROCCIA plate roll stands out from all other plate rolling machines, it is the outcome of a precison design, graphical analysis and 3D modeling, plus that all important ingredient, hands on plate rolling knowledge accumulated over many years.



Commitment

Striving to achieve perfection requires constant attention to many details, ongoing excellence in design technology, vigilance in the fabrication and machining procedures, use of proven and reliable components, a focused team of build technicians, a sales team listening and interacting with customers. At ROCCIA we are proud to say that we have this commitment to our product in abundance, it is what makes a ROCCIA plate rolling machine stand out from its competitors.

Technology

BASED ANGLED

igned to bring increas aned by **ROCCIA** e ers to absorb side t during plate r

riven rolls to ensure MOTORS/PLANETARY GEAR-BOXES are directly moun each food through of illary transitions, p v to maint

ERGONOMIC CONTROL

PANEL. As place your han modiatly be aware that all th ontrols are exactly where yo yould expect them to be.

USE SWING ARM TECHNOL-

steel profile ement for each sid this way can we grant the perfo ce and the precision of the pla g machine we manufacture for yo

g of the longitudinal seam, it is Itally important factor. If the cambe calculated incorrectly, the result will b 1) a barrel shaped cylinder ie not closi berfectly along the longitudinal seam, gi n the middle, (2) an hour glass shap cylinder the longitudinal seam touchi linder, the longitudinal seam touc OCCIA roll dimensioning culation are done on sophisticate cad software that produces all t

al data required for every step

Tolling process. Noil calculati

are calculated around cust

y are calculated around custo uirements, this being, material t chanical strength, material th ss, the rolls cylinder length dir

ROLL DESIGN CALCULATION. It is t *art* of the machines performance; at makes a **ROCCIA** plate roll diff ROLL CAMBER CALCULATION.

amber is required to counter ac eflection that occurs as bending fo



a new and exclusive uty CONE ROLLING DEVICE, that is mounted nine naro againsi

MECHANICAL ADJUST-MENT OF THE PINCHING ower roll [MAP] in counjun on with the powerful thrust he 2 side bending rolls durin the pre bend cycle ensures minimal flat along the longit dinal edge.

Smart machines

rolls use a **friction free swing arm** chine into a "stand by mode".

POWERED BY



With the OP.TIME technology system to position the pre bend ROCCIA Rundbiegen plate rolls rolls, no friction, no power aboffer up to 20% of energy sav- sorbed. When the machine is not ing, when compared to traditional in use for a period of 5 minutes an plate rolling machines. Our plate electronic control sets the ma-

Ground floor

SURF-ON SYSTEM is a new and terial loading height is around 1 up to 60mm material thickness do system. not need a pit. With our SURF- Machine maintenance is made a ON SYSTEM the machines ma- lot easier.

LIFTED BY



revolutionary patent pending de- meter which is considered to be sign. Thanks to it ROCCIA Rund- the optimal height. It's a great biegen machines with capacities advantage and a money saving

CNC control



NEWTON

GALILEO

Three different software op- our team of engineers, always tions for three different levels with our customers requirements of CNC control. Written and to the forefront. The layout of evthen fully tested and optimized ery operation function window is on our plate rolling machines, by clear and user friendly.

Balance

Each ROCCIA machine is the result of balance between high precision machining, controlled assembly procedures, customized hydraulic and electronic components, in order to obtain robust and precise plate rolls, manufactured without compromise.



Mechanical Strength



Hydraulic **Power**



Electronic Precision

CLEANLINESS AND ORDER the hydraulic and ele

parts of our machine express ttention to detail we put into