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.



Precision

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.

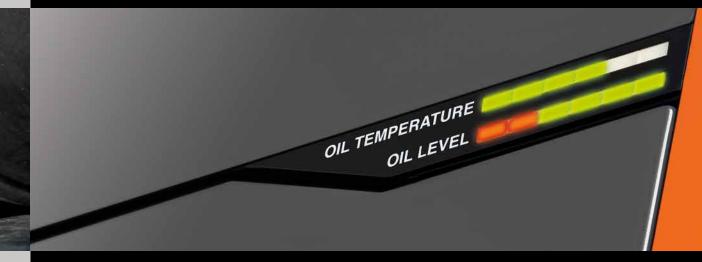
Encoders are attached to each end of the pinch side rolls, these encoders are used to individually monitor each pinch side rolls position and paralessism relative to the top roll. The encoders operate in unison with the machines PLC and electro-hydraulic valving.

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.

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-



Info and contacts:

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ing machine works below max capacity, but has a capacity to withstand the occasional overload.

• Thermal overlad indicators protect the electrical circuits.

Why Roccia?

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.

- Superior quality, reliability and performance
- 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.

n and inches	MACHINE MODEL	PLATE LENGT		BENDING THICKNESS (5xTR)		THIC	PRE-BENDING THICKNESS (5xTR)		BENDING THICKNESS (1,1xTR)		PRE-BENDING THICKNESS (1,1xTR)		TOP ROLL DIAMETER	
d in cm	HR3WS2538	2600	102,4"	38	1,50"	27	1,06"	30	1,18"	22	0,87"	380	14,96"	
expressed	HR3WS2548	2600	102,4"	48	1,89"	32	1,26"	38	1,50"	28	1,10"	430	16,93"	
are ex	HR3WS2552	2600	102,4"	52	2,05"	37	1,46"	43	1,69"	32	1,26"	490	19,29"	
Measures	HR3WS2563	2600	102,4"	63	2,48"	43	1,69"	53	2,09"	38	1,50"	550	21,65"	
	HR3WS2575	2600	102,4"	75	2,95"	58	2,28"	65	2,56"	52	2,05"	590	23,23"	
	HR3WS2590	2600	102,4"	90	3,54"	65	2,56"	80	3,15"	58	2,28"	630	24,80"	
	HR3WS25100	2600	102,4"	100	3,94"	80	3,15"	90	3,54"	70	2,76"	690	27,17"	
	HR3WS25115	2600	102,4"	115	4,53"	90	3,54"	100	3,94"	80	3,15"	730	28,74"	
	HR3WS25140	2600	102,4"	140	5,51"	120	4,72"	126	4,96"	109	4,29"	790	31,10"	
	HR3WS3036	3100	122,0"	36	1,42"	25	0,98"	28	1,10"	20	0,79"	400	15,75"	
	HR3WS3045	3100	122,0"	45	1,77"	30	1,18"	35	1,38"	25	0,98"	450	17,72"	
	HR3WS3050	3100	122,0"	50	1,97"	35	1,38"	40	1,57"	30	1,18"	510	20,08"	
	HR3WS3060	3100	122,0"	60	2,36"	42	1,65"	50	1,97"	35	1,38"	570	22,44"	
	HR3WS3070	3100	122,0"	70	2,76"	50	1,97"	60	2,36"	45	1,77"	620	24,41"	
	HR3WS3085	3100	122,0"	85	3,35"	60	2,36"	75	2,95"	55	2,17"	660	25,98"	
	HR3WS3095	3100	122,0"	95	3,74"	75	2,95"	85	3,35"	65	2,56"	720	28,35"	
	HR3WS30110	3100	122,0"	110	4,33"	85	3,35"	95	3,74"	75	2,95"	760	29,92"	
	HR3WS30130	3100	122,0"	130	5,12"	110	4,33"	115	4,53"	100	3,94"	820	32,28"	
	HR3WS4028	4100	161,4"	28	1,10"	18	0,71"	22	0,87"	16	0,63"	450	17,72"	
	HR3WS4040	4100	161,4"	40	1,57"	25	0,98"	30	1,18"	20	0,79"	510	20,08"	
	HR3WS4045	4100	161,4"	45	1,77"	30	1,18"	35	1,38"	26	1,02"	570	22,44"	
	HR3WS4055	4100	161,4"	55	2,17"	35	1,38"	45	1,77"	30	1,18"	620	24,41"	
	HR3WS4060	4100	161,4"	60	2,36"	40	1,57"	50	1,97"	35	1,38"	660	25,98"	
	HR3WS4075	4100	161,4"	75	2,95"	50	1,97"	65	2,56"	45	1,77"	720	28,35"	
	HR3WS4085	4100	161,4"	85	3,35"	65	2,56"	75	2,95"	55	2,17"	760	29,92"	
	HR3WS40100	4100	161,4"	100	3,94"	75	2,95"	85	3,35"	65	2,56"	810	31,89"	
	HR3WS40112	4100	161.4"	112	4.41"	95	3.74"	100	3.94"	86	3.39"	860	33.86"	







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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





Smart machines

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

POWERED BY

CNC control







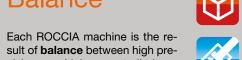
Three different software op- our team of engineers, always on our plate rolling machines, by clear and user friendly.

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

Balance

nents, in order to obtain robust

and precise plate rolls, manufactured without compromise.



Hydraulic cision machining, controlled assembly procedures, customized hydraulic and electronic compo-



Electronic