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.

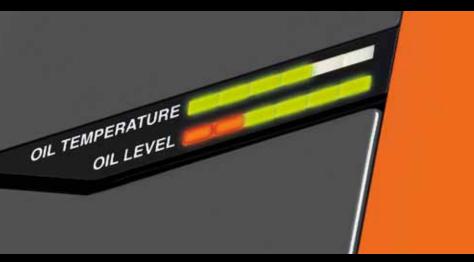
Your choice to superior productivity & reliability, it has to be ROCCIA Rundbiegen.

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



Fraz. Tetti Paglieri n. 9 - 12040 Cervere CN - Italy Phone +39 0172 474388 • Fax +39 0172 474324 info@rocciasrl.com • www.rocciasrl.com





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

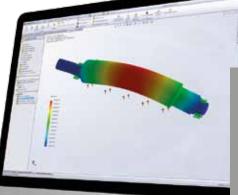
BASED ANGLED signed to bring increas sianed by **ROCCIA** e eers to absorb side th rces during plate ro

ROCCIA 4 roll n

2 driven rolls to ensu ng torq<u>ue power tra</u> his way a strong ma o is assured between MOTORS/PLANETARY GEAR-BOXES are directly m there is no loss of n



control console, you will imme diately be aware that all th controls are exactly where yo would expect them to be.



ROLL DESIGN CALCULATION. It is *t* of the machines performance t makes a **ROCCIA** plate roll di

ROLL CAMBER CALCULATION. camber is required to counter act deflection that occurs as bending for applied, so as to ensure a perf of the longitudinal seam, it is itally important factor. If the camber alculated incorrectly, the result will b I) a barrel shaped cylinder ie not closir erfectly along the longitudinal seam, ga he middle, (2) an hour glass shap inder, the longitudinal seam touch

e midule, but not at the ends. lation are done on sophisticated ad software that produces all the I data required for every step hilling process. Noil calculati re calculated around quete ents, this being, material ty

s way can we grant the period and the precision of the pla nachine we manufacture for yo

MECHANICAL ADJUST-MENT OF THE PINCHING ver roll [MAP] in counju n with the powerful thru side bending rolls du e pre bend cycle ensures nimal flat along the longi nal edge.

ity CONE ROLLING DEVICE, that is mounted

Smart machines

With the OP.TIME technology system to position the pre bend rolls use a friction free swing arm chine into a "stand by mode".

POWERED BY



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-

CLEANLINESS AND ORDER the hydraulic and electr parts of our machine expre he attention to detail we p nto our product.

CNC control



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

GALILEO

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

USE SWING ARM TECHNOL-OGY for the movement of ent for each side vantages of; more pre bei

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 Strenath



Electronic

