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# Eurolls Group News

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## Cortinovis Rigid Cage Strander for Trapezoidal Conductor

Cortinovis Machinery SpA has developed an apparatus for assembling compacted helically stranded unilay and cross-lay conductors for manufacturing compacted and trapezoidal conductors. The pre-shaped

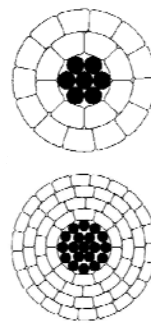
individual segments are manufactured during the wire drawing process. These segments are then wound onto bobbins and placed into a Rigid Cage Strander. The apparatus is located at the exit of each cage

of the Rigid Strander where the segments are oriented and assembled to produce a circular, highly compacted cross section, eliminating virtually all the interstices between the wires.

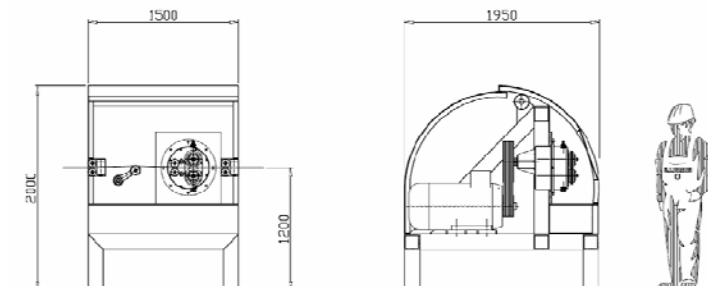


The result is a conductor that has the same cross section but a significantly reduced diameter.

Each individual wire is rolled to produce a trapezoidal profile wire starting from round having the correct cross section generated in the wire drawing operation. A Eurolls motorized cold rolling head is introduced between the exit of the wire drawing machine and the entrance to the spooler. This



dancer controlled driven cassette rolls the round wire into the desired shape while pulling the wire without adding any additional pulling tension in the spooler. This unit can be added to the existing wire drawing operation without any changes required to the wire drawing machine or recalculation of the reduction dies in the wire drawing process.





## Eurolls Report On Advantages of Cold Rolling

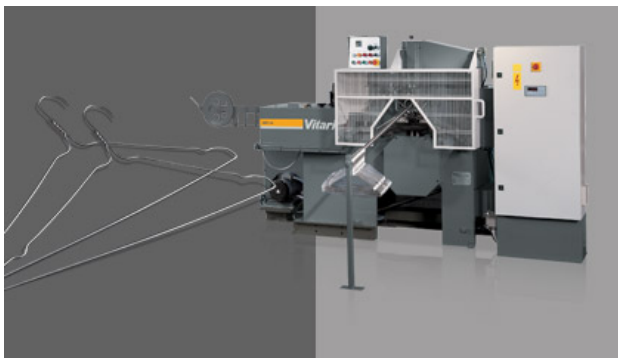
***\*Immediate Increase in Wire Production*** – The increase in production is due to a decrease in down time or stoppages in the wire drawing process by using tungsten carbide rolls versus traditional draw dies because of fewer wire breaks.

***\*Lower Pulling Force or Higher Line Operating Speed*** – The cold rolling requires a lower pulling force and therefore less horsepower due to the decrease in rolling friction between the wire and reduction rolls compared to sliding friction in conventional wire drawing.

***\*Reduction in Wire Breaks*** – The pulling force developed during the rolling process is lower than in the drawing process for a given cross section of wire. This decrease in force results in a decrease in the number of wire breaks. This will increase the overall efficiency of the process by an average of five percent.

***\*Reduction in Cost for Operating Personnel*** – Since there will be less down time, an increase in roll life, and less wire breaks, there will be a reduction in the manpower requirements.

Please contact our Sales Personnel at Cortinovis Machinery America for the complete report on cold rolling with Eurolls Rolling Cassettes.



GR!N Automatic Dress Hanger Machine

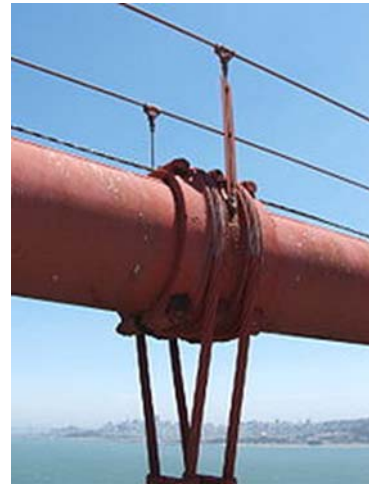
*Our facility in Monterey, Mexico (EUROLLS DE MEXICO) can handle the production of new TUNGSTEN CARBIDE rollers and can grind worn rolls that are no longer in tolerance.*

## Automatic Dress Hanger Machine

This machine produces wire dress hangers with a tensile strength range of 400 to 750 N/mm<sup>2</sup> with coils of 800-1000 Kg. The Wire which is introduced in the machine is straightened by means of rotating bushes or, in case you are using PVC wire, by means of a special set of rollers. The dress-hangers are formed through the following operations: Wire cut according to the preset length, bending, hook form and dress hanger ejection. The wire is fed into the forming unit through two sets of rollers, while the cutting length is adjustable and related to the dress-hanger required. After the forming operation, the dress-hangers are collected on a special inclined shaft. The machine is equipped with a lot of safety devices. It can be set to work continuously and also has an adequate speed system. By tool changing, you may produce different shapes of dress hangers. For additional information, please do not hesitate to contact our sales personnel at Cortinovis Machinery America at 908-479-9818.

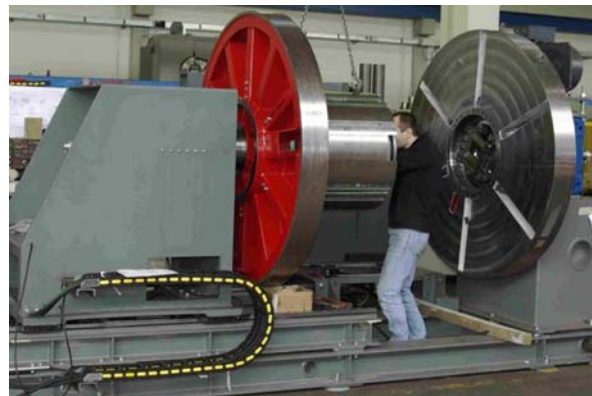
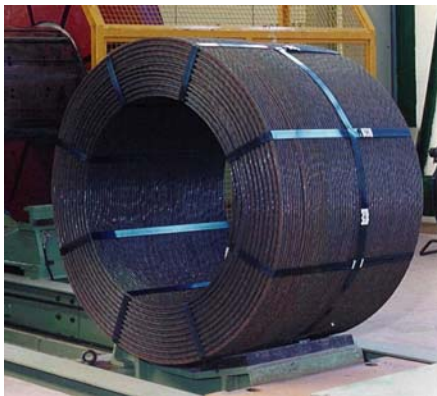
## Cortinovis Machinery Steel Division Low Relaxation PC Wire & PC Strand

The technology utilized in Civil Engineering in the design and manufacturing of bridges, concrete pilings, concrete pipes, railway sleepers and numerous other concrete applications is known as PC wire and PC strand.



For example, a **suspension bridge** is a type of bridge in which the deck has cables suspended between towers, plus vertical suspender cables. These cables, known as PC Strand, are used to carry the weight of the deck below, upon which traffic crosses. The suspension cables must be anchored at each end of the bridge, since any load applied to the bridge is transformed into a tension in these main cables.

The Cortinovis Machinery Bow Strander and Tubular Strander were developed to produce these low relaxation PC 7-wire and 19-wire strands. This field's proven process produces precise tension on the strand (40%-45% of breaking load) applied between two double wheel capstans, and controlled heat (380-400 degrees centigrade) to the cable during the manufacturing process to obtain the desired result to comply with International Standards ASTM, ISO, BS, JS, etc.



The second part of the process is the layer winding to produce the coil. The collapsible spool is opened using a hydraulic cylinder, the coil is strapped with eight (8) straps and unloaded by means of a hydraulic lifting table.

Cortinovis Machinery is committed to providing innovative high tech machines and leading technologies to guarantee our customers the highest quality and most productive equipment available in today's world market.



# EUROLLS GROUP NEWS



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The EUROLLS GROUP was established in 1987. Over the past 21 years the company has grown significantly with the cooperation of customers like you. We strive to provide the highest in quality machinery and consumable products. Our service department is committed to understanding our customers' concerns so we can provide the quickest possible solutions to meet their satisfaction. Our commitment to research and development, staying current with technology, and employing the most experienced personnel are all key to the success of the EUROLLS growth process over the past two decades. We thank you, the customer, for your continuous support.



## EUROLLS GROUP PRODUCTS

Multi Pass Cold Drawing Lines	Central Tube Stranders	Horizontal and Rosett Spools	Chain Welding Machines
Multi Pass Cold Rolling Lines	Electro Welded Collated Nail Making Machine	Lubricant Applicators	Chain Link Fencing Machinery
Descaling Rolls Pinch Rolls	Take-up Lines	Stress Relieving Devices	Rewinding Equipment
Guide Rolls Feed Rolls	Machines for Hexagon Wire Mesh and Gabbions	High Speed Nail Making Machines	Machines To Produce Hangers
Finger Bay Rollers	Descaling Units	Coilers Pulleys	Rolls for HOT Rolling Mills
Turkshead Rolls	Capstans	Barbed Wire Machines	Straightening Rolls
Tubular Stranders	Pointing Machines	Single Twist Cablers	Flattening Rolls
Double Twist Stranders	Rolling Cassettes	Planetary Stranders	Inline Compact Stretching Unit
Monobitorsion	Butt Welders	Automatic Chamfering Machine	Steel Fiber Production Machine
Double Twist Bunching, Stranding and Laying Up Machines	Straight and Cut Machines	Fixed and Collapsible Spools	Rolls For Cold Rolled Wire
Rigid Cage Stranders	Horizontal and Vertical Payoffs	Chain Bending Machinery	Lattice Girder Machines
			Automatic Spoolers