The Morgan High Speed Laying Head arrangement incorporates an integral segmented deflector plate for front and tail end control, a rugged gearbox with roller or oil film bearings, and a new guide path for improved pattern and pipe service life while reducing vibration and overall cost.

The optional use of multiple pipe supports in the laying head efficiently covers all products.

For high-speed rolling of small sizes, a revolutionary laying head pipe arrangement with extremely long life has been recently developed. The new SR Series® durable pipe technology results in significant reduction in downtime and achieves predictable, reliable production. The patented self-regenerating SR Series technology utilizes advanced materials and a controlled bore size for improved coil pattern, well-formed head and tail rings, and dramatically increased pipe life.

FIELD OF APPLICATION
Long rolling mills

MAIN BENEFITS
The Morgan High Speed Laying Head arrangement works with extreme precision and reliability to deliver consistent product quality for all sizes. Together with the Morgan Intelligent Pinch Roll, it produces a uniform and consistent ring pattern on the conveyor for both small products at high speeds and large products at lower speeds.

With the optional SR Series pipe, laying head pipe life in excess of 130,000 tons has been demonstrated on small diameter products rolled at high speeds. This new option can dramatically improve rolling of small products with the selection of one of four self-regenerating pipe designs with proprietary treated or composite pipe material.

The use of optional multiple pipe supports enables high mill utilization over the entire product range. A pipe change time of just 15 to 20 minutes minimizes the impact on mill operations. A patented twin pipe design is also available to produce different coil dimensions for a range of product sizes.
PRODUCT FEATURES

Unmatched production levels
Improved laying pattern and coil package
Minimized vibration and downtime
Patented SR Series technology
Electric linear actuator replaces hydraulic lines
Retrofits available for existing Morgan High Speed Laying Heads

TECHNICAL DATA

| Product sizes     | 4.0 mm - 26.0 mm round  
|                  | 6.0 - 16.0 mm rebar     |
| Maximum pipe life | 130,000 tons            
| (for rolling up to 7 mm) |
| Pipe change       | 15 - 40 min (depending on arrangement) |
| Design speed      | 150 m/s                 |
| Operating speed   | > 120 m/s               |
| Rotation          | Clockwise or counterclockwise |

SERVICES

• Integration engineering - customized solutions
• Erection advising - planning and supervision of installation ensures system performance
• Commissioning - expertise provided for start-up and training on system operation
• Maintenance - services available, but little required
• Spare parts - customized program minimizes inventory and controls cash flow

OTHER RELATED PRODUCTS

• Morgan Intelligent Pinch Roll
• Morgan Vee No-Twist® Mill and Vee Mini-Block
• Morgan Reducing/Sizing Mill (RSM)
• Water quenching systems
• Primetals Technologies EA LR Enhanced Temperature Control System
• Morgan High Speed Trim Shear
• Morgan Stelmor® controlled cooling conveyor

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