The Morgan High Speed Trim Shear is designed to automatically trim head and tail ends at speeds up to 120 m/s. Its patent-pending traversing design employs two separate cutting paths, one for small products at high speed and one for large products at low speed. The dual path system provides greater product support and stability before and after trimming. The system’s minimized switch angle enables precision high speed trimming.

A non-traversing single path system is also available for trimming pre-finished head and tail ends entering the Morgan Reducing/Sizing Mill.

Both the trim shear and the switch pipe can be controlled with Siemens Sinamics drives, which communicate with the existing mill’s control system.

FIELD OF APPLICATION
Long rolling mills

MAIN BENEFITS
Most mills coil manually after the reform station. By automating the trimming of head and tail ends, the Morgan High Speed Trim Shear increases yield, improves safety, and reduces operating costs. By providing accurate and consistent trimming of uncooled, out-of-tolerance rings, it improves product quality and yield. It also eliminates the need for downenders and transfer cars, which reduces coil handling equipment costs.

The unique traversing design provides optimized cutting paths and tailored cutting knives for all speeds and product sizes, and reduces guide wear and downtime. Knife holder assembly changes are no longer required with the new design. The water-cooled switch pipe also provides accurate guiding by minimizing thermal distortion. Dedicated high speed guiding prevents rod buckling in the shear cavity.
OTHER RELATED PRODUCTS

• Morgan Vee No-Twist® Mill
• Snap Shear
• Morgan Reducing/Sizing Mill
• Morgan Water Boxes
• Primetals LR Enhanced Temperature Control System
• Morgan Intelligent Pinch Roll
• Morgan High Speed Laying Head

PRODUCT FEATURES

Unique traversing design with dual path system
Advanced guide materials
Water-cooled switch pipe
Standard ISO hydraulic cylinder for shear traverse
Tailored cutting knives

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Specification</th>
<th></th>
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<tbody>
<tr>
<td>Maximum design speed</td>
<td>120 m/s</td>
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<tr>
<td>Rod size range</td>
<td>5.5 - 25.0 mm</td>
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<tr>
<td>Front end minimum trim length, high speed</td>
<td>4.8 m</td>
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<tr>
<td>Front end minimum trim length, low speed</td>
<td>3.5 m</td>
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<tr>
<td>Minimum tail trim</td>
<td>1.0 mm</td>
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<tr>
<td>Chopping length</td>
<td>&lt; 418 mm</td>
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SERVICES

• Integration engineering – customized solutions
• Erection advising – planning and supervision of installation to minimize disturbance of operations
• Commissioning – expertise provided for start-up and training on system operation
• Maintenance – system designed for maintainability
• Spare parts – customized program minimizes inventory and controls cash flow

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