



## PRE NO-TWIST® MILL SHEAR FOR PROCESS CONSISTENCY AND YIELD IMPROVEMENTS

The pre No-Twist Mill shear provides the capability for both cropping and dividing of the process sections entering a downstream rolling block. In crop cutting, short front-end and tail-end pieces are sheared to ensure that the process sections are free from deformed, cold or split ends. Dividing cuts the process section automatically for redirection to the chopping shear if problems occur downstream. The shear is designed for ease of maintenance and for reliable operation in a high-production mill. Position measuring devices are used to monitor trim shear knife holder position for accurate cut lengths. The custom-designed mechatronics package enables fully automatic control or manual operation from the pulpit

### FIELD OF APPLICATION

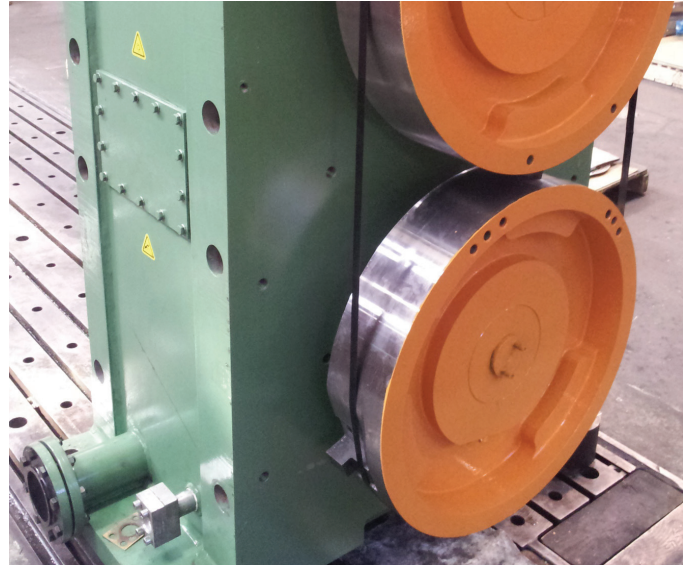
Long rolling mills

### MAIN BENEFITS

The pre No-Twist Mill shear provides accurate and repeatable front-end and tail-end crops to maximize and control mill yield. Reliable operation over the full product size range helps optimize mill productivity and utilization. By continuously running and initiating cutting with the switch trough, the shear can provide high-speed operation and accuracy of cutting.



Shear arrangement



Knife holder

## PRODUCT FEATURES

Heavy-duty bearings within fully-enclosed housing

Alloy, hardened and ground gears and pinions

Alloy steel shafts

Tool steel shear knives

Servo-motor driven switch pipe at shear entry

## TECHNICAL DATA

**Shear shaft centers** 800 mm

**Minimum cutting temperature** 750° C

**Maximum cutting force** 9.3 tons

**Typical crop length** 750 mm

**Cobble cut length** 350 - 400 mm

**Operating speed** Up to 30 m/s

## 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 Vee Mini-Block
- Morgan Water Boxes
- Primetals Enhanced Temperature Control System
- Morgan Vee No-Twist® Mill
- Morgan Intelligent Pinch Rolls

**Primetals Technologies USA LLC**  
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