The entry shear is intended for head end cropping or continuous chopping of Electrical Conductor (EC), Electrical, and Mechanical Alloy grade non-ferrous rods produced on continuous cast rolling mills.

The flexible design enables each shear to be matched to the specific technical requirements and conditions, based on cast bar sizes, grades rolled and temperature range requirements.

A cantilevered table located after the electric rotary shear indexes up during “crop cut” signal, allowing automatic deposits of crop sections in a scrap bin. During normal operation, the table from the shear guides the front end of the bar to the finishing mill.

FIELD OF APPLICATION
Non-ferrous long rolling mills

MAIN BENEFITS
• One-piece modular design offers fast “plug and play” installation
• At start-up, the entry shear allows continuous cropping of the cast bar until metallurgical properties are suitable for rolling
• The shear includes a proprietary knife blade design that provides a chamfered shape to the front end of the bar for more consistent and reliable thread up
• Protects the roughing mill equipment from damage and reduces time to clear cobbles by preventing additional material from entering the mill, by continuous chopping of the cast bar, thus eliminating any interruption to the casting operation while the cobble is being cleared
• The shear increases operator safety as it minimizes the need to use manual hydraulic cutters or other devices during startups and cobbles
• The combination of robust mechanical equipment with electro-pneumatic controls provides reliable production, low maintenance, and high quality finished product
OTHER RELATED PRODUCTS
• Intermediate shear and table
• Rolling mill stands
• Hydraulic roll mounting
• Rolling mill lubrication systems
• Coil forming equipment
• Coil handling solutions
• Dual reel coiler and automatic unloaders

PRODUCT FEATURES
Rotary multi-blade design
Heavy-duty welded steel construction
Hardened steel knife blades for long life
Independently driven to match rolling speed
ISO quality gearing design to match shear torques
Integrated lubrication system
Tailored cutting knives

TECHNICAL DATA
Production rates 2 - 54+ t/hr
Cast bar or billet size Unlimited
Finished product sizes 8.0 - 25.0 mm
Grades Cu and Al EC & Alloys

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 long life
• Spare parts – customized program minimizes inventory and controls cash flow

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