INTENDED USE
The WILCO Model 1250 Automatic Brush Descaling System is intended for continuous in-line descaling and aggressive brush cleaning of hot-rolled steel wire rod.

SYSTEM CONFIGURATION
The Descaling System consists of a 3-sheave Scale Breaker and Automatic Rod Brusher mounted on a common base plate. The Automatic Rod Brusher consists of 2 halves each with 4 brushes oriented 90° to the rod direction. The brushes contact the rod at one of three selectable brush pressure settings. The controls automatically maintain that pressure.

SYSTEM OPERATIONS
In operation, the rod is pulled through the Scale Breaker by the wire drawing machine. 80-90% of the scale broken loose falls from the rod and collects in the Scale Breaker cabinet. The remaining 10-20% is loose but clinging to the rod due to the static charge.

The Automatic Rod Brusher removes this loose scale as well as any adherent patches of hot-rolled scale, red rust and secondary scale. Because of brush orientation with respect to the rod, a circumferential residual rod marking remains and is very beneficial for lube pick-up.

The resulting rod is descaled, brushed and clean, ready for drawing into wire.

SYSTEM CAPABILITY
Rod Composition – The WILCO Model 1250 is designed to mechanically descale and brush low through high carbon hot-rolled steel rods.

Rod Sizes – The system is capable of processing rod sizes of 7/32 inch thru 1/2 inch – 5.5 mm-12.7 mm diameter.

The standard Model 1250 is equipped to process low through high carbon rod .218 through .266 inch – 5.5-6.75 mm diameter.

Rod Speed – Rod inlet speeds up to 350 fpm – 1.8 m/s can be descaled and aggressively brushed cleaned.

Rod Condition – The Model 1250 is capable of processing rod with adherent scale patches, red rust and secondary scale.

Rod Line Height – The entire system is adjustable from 31 inches to 41 inches high – 79 cm to 104 cm.

SYSTEM SPACE REQUIREMENT
The Model 1250 is very compact with a footprint of 69 inches long by 48 inches wide – 1.75 m by 1.2 m (footprint drawing available).

EQUIPMENT UTILITY REQUIREMENTS
Scale Breaker – none required.

Automatic Brusher

- Electrical: 440 V, 60 Hz, 3 Ph – All off-shore electrics available.