

WILCO **Model 1250** **Automatic Brush Descaling System**



Engineered Products for the Wire Drawing Industry

WILCO MODEL 1250

Automatic Brush Descaling System

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.

For additional information please contact:

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