

WIRE LAB COMPANY

WILCO Model 1250-DB Automatic Brush Descaling System



Engineered Products for the Wire Drawing Industry

WILCO MODEL 1250DB

Automatic Brush Descaling System with DUAL Brushing Heads

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 DUAL Automatic Rod Brushers. A single Automatic Rod Brusher consists of 2 halves each with 4 (commercially available) 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.** The DUAL brushing machines operate independently so if processing requires only one brusher the second is simply deactivated.

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.

Advanced machine controls not only automatically control the brush pressure and adjust the brushes inward as they wear but also have internal connection points to control the brushing machine's operation off of your wire drawing machine.

SYSTEM CAPABILITY

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

Rod Speed – Average quality rod can be descaled and aggressively brushed cleaned at inlet speeds up to 650 fpm – 1.8 m/s.

Rod Condition – The Model 1250DB 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.

Suitable scale vacuum system is REQUIRED.

SYSTEM SPACE REQUIREMENT

The Model 1250DB remains compact with a footprint of 125 inches long by 48 inches wide – 3.18 m by 1.2m (footprint drawing available).

EQUIPMENT UTILITY REQUIREMENTS

Scale Breaker – none required.

Automatic Brusher

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

DUAL brushing machines offer the significant advantage of descaling very rusty material without slowing the drawing line OR the production of the highest possible quality wire.

For additional information please contact:

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