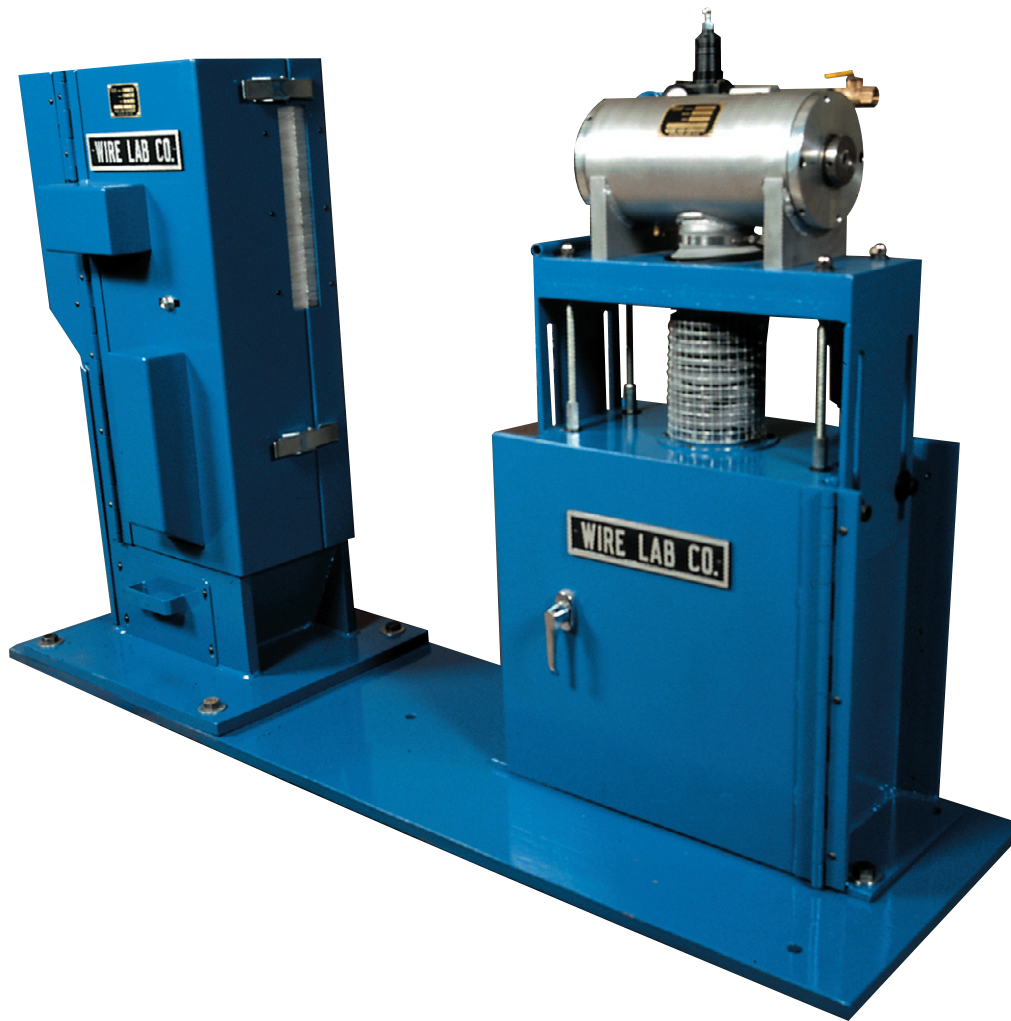


# WIRE LAB COMPANY

## **WILCO Model 920 Air Jet Descaling System**



**Engineered Products for the Wire Drawing Industry**

# MODEL 920

## Air Jet Descaling System

### INTENDED USE

The WILCO Model 920 Air Jet Descaling System is intended for mechanical descaling and cleaning hot-rolled steel wire rod as preparation for drawing into wire.

It is designed for in-line use, located after the rod snarl switch and before the wire drawing machine.

### SYSTEM CONFIGURATION

The Descaling System consists of a 3-sheave Scale Breaker and an Air Jet Cleaner mounted on a common base plate to assure proper alignment. Installation is exceptionally easy because of this pre-alignment.

### SYSTEM OPERATIONS

In operation, the rod is pulled through the Scale Breaker by the wire drawing machine. Essentially all of the scale on the rod, properly made for mechanical descaling and with 0.5-0.75 wt % scale, is broken loose. 80-90% of the loose scale 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 electrostatic charge. This undesirable residue of scale dust and flakes is removed by the Air Jet Cleaner and is collected in a reusable filter bag.

The resulting rod is production clean and ready for drawing into wire.

### SYSTEM CAPABILITY

*Rod Composition* – The WILCO Model 920 is designed to mechanically descale low through high carbon hot-rolled steel rods. Some low alloy steel rods may also be adequately processed.

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

The *standard* Model 920 is equipped to process low carbon rod up to .344 inch – 8.7 mm.

*Rod Speed* – Rod inlet speeds up to 850 fpm – 4.3 m/s can be properly descaled and cleaned.

*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 920 footprint is 76 inches long by 21.5 inches wide – 1.9 m by 55 cm (footprint drawing available).

### EQUIPMENT UTILITY REQUIREMENTS

*Scale Breaker* – none required.

*Air Jet Cleaner*

Air: 13-15 cfm – 6 l/s at 90 psi – 6.2 bar

*For additional information please contact:*

**WIRE LAB COMPANY** 

15300 Industrial Parkway  
Cleveland, Ohio 44135  
PH: (216) 362-0800 FAX: (216) 433-0007  
E-mail: e-mail@wirelab.com  
WEBSITE: www.wirelab.com