



TOBACCO ENGINEERING

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## **BENEFITS**

- Simple operation
- Integrated feed conveyor
- Automatic roll gap adjustment
- Independent roll drives with peripheral speed measurement
- Automatic gap release
- Heavy duty permanent magnets to remove ferrous material
- Optional steam or water sprays

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# **STEM ROLLER SF SERIES**

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## **A ROBUST MACHINE WITH UNIQUE FEATURES**

The LTL Group are designers and manufacturers of bespoke process equipment for the world tobacco industries.

The LTL Stem Roller is a robustly constructed machine supplied in a range of sizes to suit your individual requirements.

Many unique features maximize the efficiency of the machine whilst simplifying routine operational and maintenance tasks: features such as the automatic roll gap adjustment with digital readout, peripheral roll speed measurement and independent roll drives to enable speed matching thus reducing product degradation and roll wear, retractable scraper carrier assembly for easy cleaning / scraper replacement etc.

An integrated feed conveyor ensures that product is delivered to the rolls at the correct height, position and alignment to provide maximum process efficiency and reduce the possibility of blockage or out of spec product.

The two common size configurations are the SF1000 and the SF2000 with maximum capacities of 1000 and 2000 kg/hr respectively, although bespoke sizes can be produced to suit exact requirements.

# STEM ROLLER SF SERIES

## GENERAL FEATURES

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### KEY FEATURES

- Fully automatic roll gap adjustment
- Automatic roller release and reset for foreign body removal
- Integrated feed conveyor
- Permanent magnets mounted above infeed conveyor to remove ferrous material
- Multi-position product take-off arrangement
- Pneumatically operated roll scrapers
- PLC control
- Simple operation and low maintenance
- Interlocked guarding for safety

### OPTIONS

- Water and / or steam jets
- Profi-bus / ethernet connection
- Full colour graphic MMI
- Roll grinder unit
- Shock absorbing feet for suspended floors
- Data logging system

### OPERATIONAL DESCRIPTION

The SF1000 and SF2000 are similar in construction and operation, the main difference being the roll width: 600mm on the SF1000 and 1,000mm on the SF2000.

The machine consists of two contra-rotating rollers mounted on a free standing steel framework. One roller is fixed to the frame whilst the other is loaded pneumatically against moveable stops. The position of the moveable stops is remotely adjustable and determines the gap between the rollers and hence the thickness of the output stem.

The pneumatic loading is sufficient to maintain the desired roll gap for the stem being processed but also allows the rollers to open to pass foreign matter, thus reducing the risk of damaging the rollers. The correct roll gap is automatically re-instated after opening unless the rollers are forced apart for more than three seconds. In this case the machine will stop automatically and a warning lamp will illuminate on the control panel. A signal is also generated within the unit which allows any foreign matter, which has forced the rollers open, to be rejected downstream by a trap door or diverter arrangement.