DieTronic
lubrication system

Mill Section | Dietronic Section | Cutoff Section

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## Spray Application of Protective Systems Pipes and Profiles

## Lubrication Systems Cutting Blades

- Under One Year Payback
- Increase the protection of your product
- Reduce Consumption of Valuable Protective Coatings
- Uniform Protection
- Guarantee Standard and Repeatable Coating
- Superior protection


## *ANTIRUST Spray Systems for the Application of Anticorrosion Protective Oil*

***Do you have to protect your product from rust and corrosion?***
***If the answer is YES, this is the product you have been looking for.***

**• REDUCE CONSUMPTION WHILE INCREASING PROTECTION**

The **LCP ANTIRUST 04** is an innovative system that enables the in-line application of protective oil onto the surfaces of tubes, pipes and profiles.
With the **Dietronic ANTIRUST System**, you apply the protective fluid directly to the tube in the dosages recommended by the vendor. If the process line slows down or speeds up, the ANTIRUST system automatically responds and keeps the dosage correct.

**• INCREASE THE PERFORMANCE OF FLUIDS**

To be effective, anticorrosion fluids need to be applied to the tube at the right dosages and with good surface conditions.
The first step consists of a **Blowing System** to prepare the surface for an effective application of the anticorrosion fluid and the elimination of any residual of water, the main responsible for corrosion.
With the second step you can avoid any dosages greater than the recommended, which is wasteful and does not increase the protection rating.

## Step: 1 DRY

### *PNEUMATIC AIR BLOWER*

**Water is the main responsible for tube corrosion**
This device, placed at the entry of the unit, blows air to the tube and prepares a dry surface for the application of anticorrosion fluids.

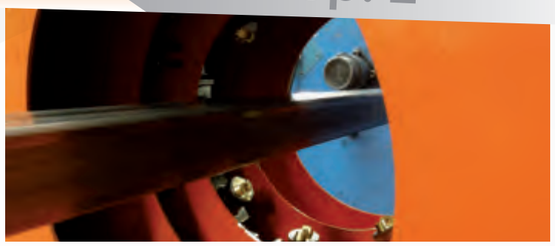
**Benefits:**
Dry tube before Spraying
Better performance of the anticorrosion fluid
Homogene Application
Further Reduction of Fluid Consumption

The Blower is adapted to the dimension of the tube and available in 3 sizes.

| | Consumption Nlitres/min at 5,5 BAR | Noise level at 90 cm (dBA) |
|---|---|---|
| **Small size 25 mm** | 541 | 76 |
| **Medium size 76 mm** | 1127 | 79 |
| **Big size 125 mm** | 1716 | 82 |

## PROTECT Step: 2

With the ***LCP ANTIRUST 04***, Oil is applied proportionally to the mill speed by the encoder feedback circuit which measures line speed and adjusts for the proper oil feed (in weight per square inch).
The operator does not have to adjust for line speed and the system guarantees lubricant is being deposited out of all nozzles at the proper dosage.



## Step: 3 RECYCLE

***The ANTIRUST system*** utilizes two methods to help recover protection fluid that is not applied to the product.
**1. Oil / Mist Extraction System.** Any oil "mist" produced by the spray nozzles are removed, purified, filtered and returned to the oil tank. This produces an oil free environment and helps comply with several health standards.

**2.** A unique **fluid collection system** at the bottom of the spray box that collects the unused fluid. Three filters separate the emulsion fluid from the protection fluid. The protection fluid is then returned automatically to the main tank

## CONFIGURATION

**Oil Mist Extraction System**
A suction system with 3 filtration degrees to avoid any kind of environmental contamination.

**Powered Positional Adjustment**
Vertical automatic adjustment (+/- 100 mm) of the position of the spray box in relation to the variation of tube dimensions

**5 Inch Touch Screen**
The management of all the parameters of the lubrication machine is entrusted to a programmable logic system and a 5" touch screen operator interface such as:
• Selection of valves that are on/off. - Quantity of fluid dispersed in g/m² - Manual spray control - Pump start/stop - Monitor line speed - Monitor fluid levels.

**Extractable Spray box**
A quick disconnect is integrated with the spray box that allows for easy insertion and extraction.

**Flow Control Monitoring System**
Positive verification that the proper amount of fluid set on the Touch Screen is flowing through all valves. Integrated within the nozzle is a flow sensor that will activate an alarm if flow is not detected.

**Volumetric Pump**
Volumetric pump with mechanical seal driven by brushless motor

**Automatic re-filling tank**
Allows the automatic tank refill of the lubricant through the management of minimum and maximum levels. General power must be supplied by the customer through a centralized system or a tank containing the lubricant.

## LUBRICATION Step: 4

### *LUBRICATION FOR CUTTING BLADE*

**The Dietronic Lubrication System** for cutting blades allows the application of minimal quantities of oil to the cutting blades.
Compact System with 4 or 8 Outputs which are mounted on the rear of a 30 litres Oil Tank.
Controlled by a 8" Touch Screen where parameters like on/off of Spray Valves, Quantity of oil, Oil Heating.

***TESTIMONIAL***

*"We completely solved the corrosion problems with Dietronic Antirust System. We paid back the investment in a very short time with an oil consumption reduction of more than 70% as well as costs for rejected products.*
*We used the performance of the system to certify the controlled application of anti-corrosion production in g/m² and promote the added value that the Dietronic system gave to our final product"*