



ANDRITZ

FEED AND BIOFULE

INCREASED PELLETING LINE CAPACITY AND FLEXIBILITY

MICRO-FLUID SYSTEMS

ANDRITZ

ENGINEERED SUCCESS

Micro-fluid system for enzymes, vitamins, fats, and oils

ADVANTAGES OF THE SYSTEM

- High fluid dosing accuracy, even at low flow rates
- Precise fluid distribution
- Operational flexibility
- Control system trend curves and statistics provide historical documentation and diagnostics
- Modular configuration allows future expansion, including addition of fat and oil
- Compact design facilitates installation in new or existing plants
- Hygienic design
- Easy access for cleaning
- Constructed in sandblasted stainless steel
- Enclosed system for workers' health and safety

APPLICATION

The micro-fluid system is a PPLA (Post Pellet Liquid Application) and is designed for continuous spraying of macro- and micro-fluids, such as enzymes, amino acids, vitamins, aromatics, bacteria cultures, fats, and oils onto animal feed pellets after drying/cooling of the pellets. The benefits of adding micro ingredients after pelleting are enlarged pelleting line flexibility and increased capacity as multiple feed variants may be produced without restarting the pelleting process. Additionally, post pellet application of heat-sensitive micro ingredients provides costs savings compared to liquid application before pelleting (pre-heat treatment).

OPERATION AND MAINTENANCE

With respect to microbial hygiene, the mechanical equipment is designed with smooth surfaces, which can be cleaned through large access doors during normal cleaning routines. The system is fully enclosed, which reduces employee exposure to harmful vapors during operation.

ACCURACY AND PRECISION

The control system aims to obtain a constant gravimetric pellet flow in order to ensure precise and accurate specific liquid dosing. At a given pellet flow, the control system automatically adjusts the pump system to obtain the correct flow rate. At start-up, the preset liquid

flow is toggled from idle recycling to pellet spraying, ensuring almost instantaneous combination of liquid and pellets in the correct proportions.

TECHNICAL DATA / MFS 650

- Capacity range: 10-65 tph
- Addition quantity: Micro-fluid 100-650 ml per ton
- Macro-fluid 1-5 % addition

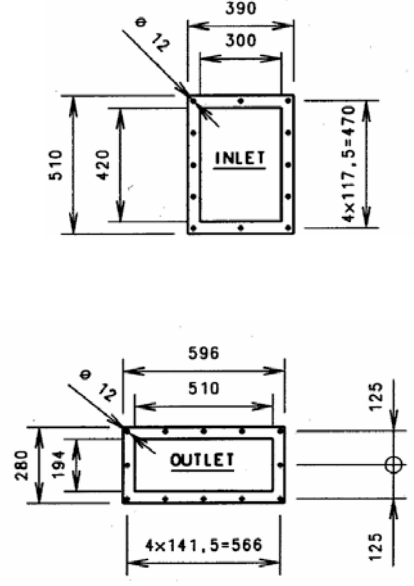
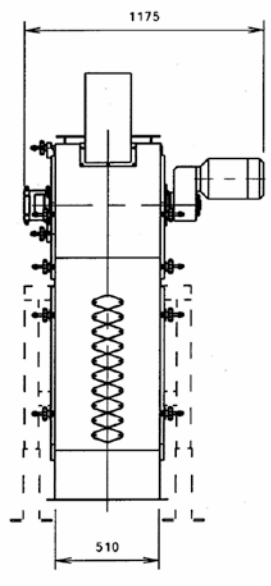
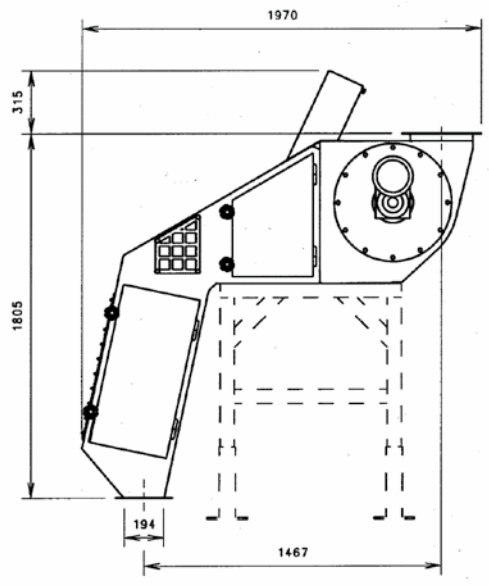
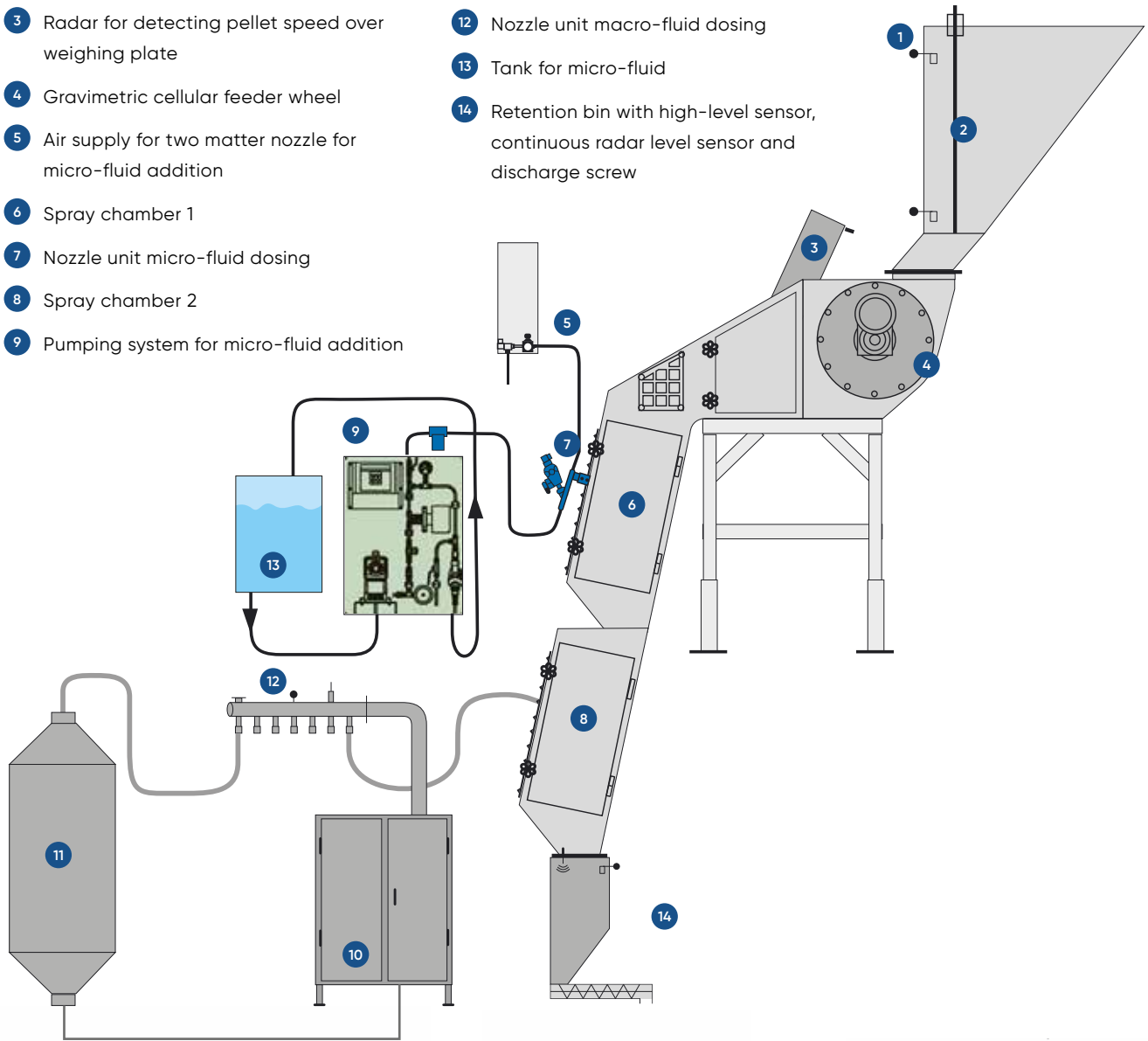


MICRO-FLUID SYSTEM

System for addition of
micro- and/or macro-fluids



- 1 Pre-bin
- 2 Continous level sensor
- 3 Radar for detecting pellet speed over weighing plate
- 4 Gravimetric cellular feeder wheel
- 5 Air supply for two matter nozzle for micro-fluid addition
- 6 Spray chamber 1
- 7 Nozzle unit micro-fluid dosing
- 8 Spray chamber 2
- 9 Pumping system for micro-fluid addition
- 10 Liquid unit for macro-fluid addition
- 11 Tank for macro-fluid
- 12 Nozzle unit macro-fluid dosing
- 13 Tank for micro-fluid
- 14 Retention bin with high-level sensor, continuous radar level sensor and discharge screw





GLOBAL SUPPLIER – LOCAL PRESENCE

With sales, service, engineering, manufacturing and production sites located all around the world, ANDRITZ Feed and Biofuel is truly a global organization with a local presence. ANDRITZ is vital to ensuring a reliable global supply of aqua feed, animal feed, pet food, and biofuel. With full process lines accounting for half the world's production of aqua feed and biomass alone, we continuously support leading producers in achieving the highest levels in safety, quality, and control from feedstock to final product.

How can we help grow your business?

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