

LEO

Dosing Machine



kapelis
ackaging

LEO is designed for all types of homogeneous, pumpable food recipes and **meets the highest standards of hygiene, dosing accuracy, speed, gentle product handling, and ease of use.**

Its compact, modular construction and robust design ensure long-term reliability. LEO features a new 10" HMI touch control panel for intuitive operation and **enhanced safety** through multi-level access profiles.

The fully integrated servo technology of LEO forms the basis for **precise control of all process sequences, ensures optimal line efficiency, and enables significant reductions in energy consumption and operating costs*** — delivering clear economic benefits in every sense.

Suitable for fully automated packaging lines as well as foot-switch operation, LEO delivers a significant productivity boost – even with smaller batch sizes.

** Up to 90% reduction in energy consumption compared to pneumatic piston pumps*

PRODUCTS

Soups, sauces with ingredients up to 40 × 40 mm in size, and dressings, a wide variety of cooked meal recipes, pasta dishes such as mac & cheese and orzo, ready to eat delicatessen salads, meal components such as mashed potatoes, Bolognese meat sauce, mixed vegetables, jams, and sweet desserts including puddings, fruit compotes, as well as many other homogeneous and pumpable products.





DOSING RANGES

Total range: **10 – 1.960 cc per cycle and position**
 DN 35: 10 – 240 cc
 DN 65: 80 – 825 cc
 DN 100: 300 – 1.960 cc

DOSING CAPACITY

25 – 60 cycles / minute / dosing position, depending on product consistency, volume, and packaging machine.

NUMBER OF DOSING POSITIONS

1

DOSING TECHNOLOGY

Piston system with dosing cylinders / rotary valves with wide cross-sections for gentle product handling. Very easy to dismantle and clean. Dosing pistons made from stainless steel / PEEK+ with special FDA-approved seals.

DRIVES

Fully servo-driven. No pneumatic drives (except the filling head above the packs).

CONTROLS

Bosch Rexroth control system with 10" HMI touch control panel featuring the new LEONHARDT application. Clear, intelligent operation with **recipe management, analysis functions, remote access, user access levels, multilingual support, and advanced connectivity to weighers, packaging lines, and factory control systems** (Industry 4.0).

MACHINE FRAME

Hygienic design with fully welded housing, IP66, mobile.

ADDITIONAL OPTIONS

- **Vertical movement of the dosing nozzles** for improved filling / spreading of products in the packs
- **Dosing nozzles** in many variations, product-related, e.g. cut-off and rotary heads, and shower heads
- **LEONHARDT conveyors** for trays, cups, and buckets, including a 15" HMI touch control panel to control all connected dosing machines and other equipment

Options: integrated weighing scales and interfaces for "target weight" and "trend control", rejects systems, tray denesters, and automatic lidding systems

- **Parts and tool trolleys** for cleaning and storage of change parts