

Model LIW3000 Loss In Weight Feeder



The model “LIW3000” is one of Web Tech AutoWeigh’s large capacity loss in weight feeders, and is suitable for applications including powder and granular materials. Available in both single and twin screw configurations, accuracies in the order of $\pm 0.25\%$ to $\pm 0.5\%$ are achievable.

Feeder - Mechanical

Web Tech Autoweigh’s model “LIW3000” loss in weight feeder includes for a feed hopper and extension hopper. Various capacity extension hoppers are available depending on the application and throughput. The metering screw(s) are driven by a shaft mount gearmotor through a shaft sealing assembly. For products that are not free flowing, an optional internal agitation system ensures consistent product throughput. Other features include a fully removable front face panel which allows easy cleaning of the internal components, fully enclosed or open grate hopper lid, and various screw diameters and designs. The feeder can be supplied in mild steel powder coated, or fully stainless steel construction. The feeder is mounted on precision stainless steel shearbeam load cells, with capacities to suit the application. Typical turndowns available using standard AC motors and variable speed drives is 10:1. For applications that require a higher turndown, an alternative system can be provided. The capacity of the model “LIW3000” can be up to 30m^3 per hour. The feeder can be supplied with variable options such as butterfly or gate valves on the feed inlet, flexible connections for the inlet and outlet, and polished stainless steel finish.

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Electronics

The “LIW3000” loss in weight feeder is supplied with our “Optimus Plus” electronics. The “Optimus Plus” electronics is a microprocessor based integrator and comes with the following standard features:

- Microprocessor based.
- 110/240VAC or 24VDC supply (optional).
- IP66 reinforced polyester enclosure.
- Modular in design – easily serviceable.
- Simple menu driven interface.
- Integral keypad with calibration “Hotkeys”.
- 2 x 40 character backlit LCD display.
- All commands in simple English – No hieroglyphics or codes used.
- 8 digit Mass Rate display.
- 8 digit Mass Total display.
- Isolated 4-20mA Rate output.
- Isolated 4-20mA PID output.
- Remote Totaliser outputs.
- Remote setpoint input.
- Programmable digital outputs.
- Service menus allow load cell values to be read without the need for test meters.
- Automatic Zero & Span calibrations.
- Optional Ethernet or Profibus boards.



“Optimus Plus” in standard
IP66 RFP Enclosure



“Optimus Plus” in optional
Stainless Steel Enclosure

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