



DESCRIPTION

The **DSL150 G** model is a **gravimetric screw feeder**. It is the most universal solution to the problem of feeding both well-flowing, fine-grained loose materials and difficult-flowing, with tendency for rat-holing and bridging. The device is capable to dose in a continuous or batch mode.

The device consists of a **main trough**, **hopper**, and **precise scale**. Material flow is generated by feeding tool – screw. Depending on the product characteristics, it is a screw with center rod or a spiral. The product weight loss is constantly measured during operation. Thanks to this operation, it is possible to control the feed rate (screw's rotational velocity) using the PID regulator. The flow of material is supported by horizontal **agitator** powered by a separate electric motor that operates with constant rotational velocity.

Elements that come into contact with material are made of 1.4301 (AISI304) or 1.4404 (AISI316L) stainless steel, while other elements are powder-painted. Internal surfaces and welds may be additionally ground for customers from food and pharmaceutical industries.



FEEDING TOOLS

Full screw - with center rod
Spiral screw - without center rod

Φ(ext. diameter x torque)

- Φ74x37 [mm]
- Φ74x74 [mm]
- Φ89x44,5 [mm]
- Φ89x89 [mm]
- Φ127x63,5 [mm]
- Φ127x127 [mm]
- Φ150x75 [mm]
- Φ150x150 [mm]



HOPPERS

The geometry of the hoppers facilitates material flow.

Total hopper volume:

- 400 [l], diameter Φ850 [mm]
- 600 [l] diameter Φ850 [mm]
- 1200 [l] diameter Φ1200 [mm]
- 1800 [l] diameter Φ1200 [mm]
- 2400 [l] diameter Φ1200 [mm]



OPTIONS

- Hygienic execution - continuous welds inside and outside of the construction, internal ground surfaces and welds (Ra<0,8μm)
- Vertical outlet pipe
- Shut-off valve for batch (feed) dosing material stream
- Execution for Ex-zones
- Additional (vertical) agitator



CONTROL SYSTEMS

For systems feeding in **continuous mode**:

- FLEX

For systems feeding in **batch mode**:

- 1020
- SGM800
- FLEX 2100/FLEX

Control system is located directly on the feeder's construction or separately.

Control cabinet location: right or left



FEED RATES

Turndown ratio:
min:max = **1:10**

Feed error:
±0,5% of set value

Minimum feed rate: 70 [l/h] (full screw 74x37 [mm], 10 [rpm])

Maximum feed rate: 30 000 [l/h] (spiral 150x150 [mm], 200 [rpm])



MOTOR

- **3x400 [V]** SEW AC motor with gear-box, IP65 protection class
- Optionally possible to deliver a **3x500 [V]** AC motor or aseptic.
- The feeding tool's motor is controlled by a **frequency inverter**.



DIMENSIONS

