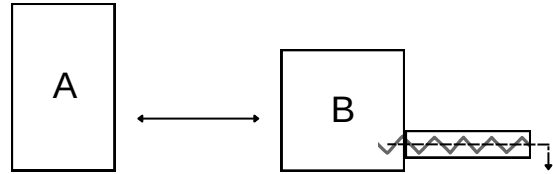## Single Screw Feeder

Typical application of NS70:

A. Motor Control
B. Single Screw Feeder

Description

Orbetron's Feeders have been designed to grant a wide range of flexibility for different types of bulk solid materials and throughput ranges.

The Single Screw Feeder NS70 is suitable for feeding granules, pellets, free-flowing regrinds, and flakes in continuous and batching processes.

Specifically, the NS70 Feeder can be controlled gravimetrically or volumetrically. The compact, modular design permits the operator the flexibility to meet changing process requirements. Feed rates range from (1-3180 l/h) (.03-112 cuft/h). The efficient design of the feed hopper yields a large screw intake length and ensures no dead zones in material flow. Quick material changes are ensured through the bottom cleanout and feeds crew quick removal from the rear.
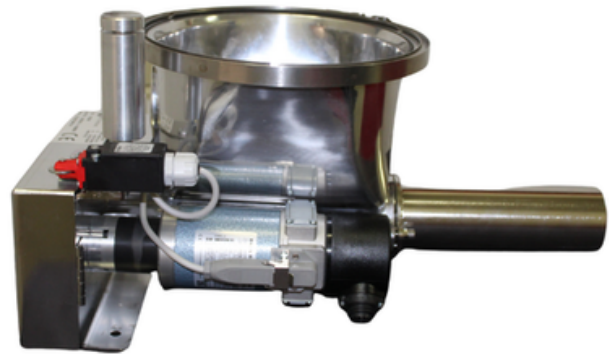
Dosing Performance

SCREW TYPE		SPIRAL SCREW	AUGER SCREW
GEAR	SPEED/MIN^{-1}	l/h cuft/h	l/h cuft/h
6:1	35 - 653	6–3180 .2-112	3 -3134 .1-110
23:1	9 - 169	2–823 .07-29	1 – 811 .2-28
36:1	6 - 108	1-526 .2-18	1 – 518 .2-18

Design

- Compact feeder and gearbox design. High modularity for easy dismantling and cleaning. Horizontal material outlet discharge.
- Tool-free change of the feeder screw. Applicable for single spiral and auger screws.
- All material contact metal parts are in mechanically polished aluminum, food-grade.
- 106W DC, 220 VDC, 3200 rpm motor with speed control in protection class IP 54.
- Operating and material temperature -20+60°C.
- Gearboxes in the sizes of 6:1, 23:1, 93:1, 150:1, 308:1. The unit conforms to directives.
- Weight without accessories 15 kg.

Options

- *Hopper extension modules in the sizes of 20l, 50l, 75l, 85l, 100l, 135l,185l, special hoppers are on request available*
- *Removable vertical outlet tube with the size of 4"*
- *Screw and outlet tube extensions up to the total screw length of 600 mm*
- *All sealing is silicon freestyle in continuous or batching processes. All sealing is in contact with material.*

Applications

- Volumetric continuous or batch
- Gravimetric loss-in-weight continuous
- Gravimetric loss-in-weight batch
- Gravimetric gain-in-weight

Drawings