



ROV 4000

Automated mineral and concentrate
Distributor

- ❑ Serves feed supplement, grain and mineral without human intervention
- ❑ Feeds up to 8 ingredients: concentrate, grain, mineral, cube, powder, pellet
- ❑ Automatic loading of ingredients that are used in large quantities
- ❑ Low energy consumption, powered by 2 - 12 volts batteries
- ❑ Travels on an overhead rail, adapts to feed alleys of all sizes



The grain robot ROV 4000 is made according to the needs of each dairy operator. Some features are optional. Features, specifications and dimensions may vary without notice. Existing machines can be different.

Touchscreen control panel



FEATURE	BENEFIT
5.7 in. touchscreen (14.5 cm)	<ul style="list-style-type: none"> - Wide display, improved readability - Clear instructions - Industrial display, dust and moisture resistant
Industrial PLC	<ul style="list-style-type: none"> - Complies to worldwide quality standards - Long life and superior durability



Software Rovibec Generation IV	<ul style="list-style-type: none"> - Drives the robot to loading areas (bin, auger) - Controls track switches that are operated by electric actuator - Up to 16 meals per day to 250 cows - Servings adjusted to lactation cycle - Automatic loading of up to 4 ingredients - Individual serving of supplements, grain, mineral - Monitors the intake of each ingredient per cow - Keeps track of remaining quantities in silos
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Wireless communication kit

- Enables data transfer between the robot and a desktop computer or a Pocket PC (limited availability; special conditions apply)

Calibration of volumetric augers

- Easy calibration, quick setting of discharge rate
- Accurate calibration helps control and reduce feed costs

Distribution of feed supplement, grain, mineral



FEATURE

Up to 8 compartments for feed supplements

BENEFIT

- Individual serving of supplements
- May help increase the value of milk components

4 different types of augers for feed supplements

- Discharge rate is optimized for each supplement: grain, concentrate, mineral, pellet, cube, powder

Augers operating simultaneously

- Short stopping time at each cow
- Homogeneous mix reduces sorting and refusal

Special discharge spouts

- Prevent spill
- Precise serving

Robust auger motor 24 VDC

- Accurate volumetric discharge
- Quiet operation

Adjustable high level sensors

- Automatic loading of supplements that are used in large quantities (up to 4 sensors available)



Rail and drive



FEATURE

Trolley for galvanized round rail (3.5 in. diameter) or structural I-beams

Traction wheel with adjustable quick-release tensioner (round rail)

Short-wheelbase trolleys

BENEFIT

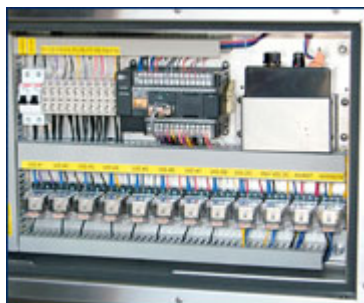
- Easy installation in existing barns, allows replacing competitors' grain robots with no modification to the rail system
- In a new barn, offers the flexibility to choose the most economical rail system in terms of material and labour

- Maximum adherence to the surface of the rail
- Allows fast traveling speed
- Compatible with gradual slope (0 - 4%)

- Narrow turns in confined alleys



Design and safety



FEATURE

Durable electronic and electromechanical components

Battery drawer

Energizer on discharge spout and side panels

Ingredient compartments and exterior panels made of stainless steel

Riveted panels

Front and rear bumpers

Alarm messages saved for a long period

BENEFIT

- Efficiency in hard environment (dust, moisture, corrosive feed)
- Reliability
- Easy, low cost maintenance

- Easy battery verification and maintenance

- Keeps cows at a safe distance
- Encourages good cow behavior

- Corrosion resistant
- Tolerant to scratches and dents
- Good appearance
- Last longer than commercial steel

- High resistance to strain
- Precision assembly

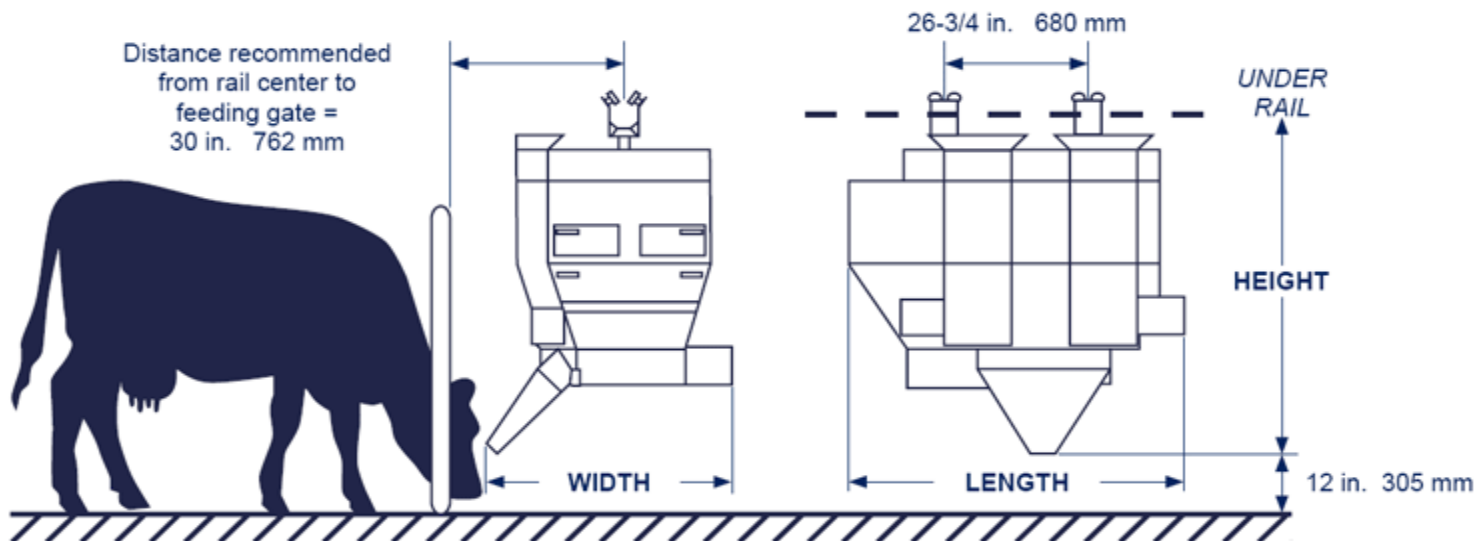
- Stops the robot if an obstacle is touched

- Provide useful data about situations and/or problems that may occur while feeding
- Support the technician for maintenance and repair

Dimensions: Robot with 1-side discharge

MODEL	LENGTH in / mm	WIDTH in / mm	HEIGHT in / mm	WEIGHT EMPTY* lbs / kg
ROV 4000 with 1-side discharge	63 / 1600	43 / 1092	70 / 1778	700 / 318

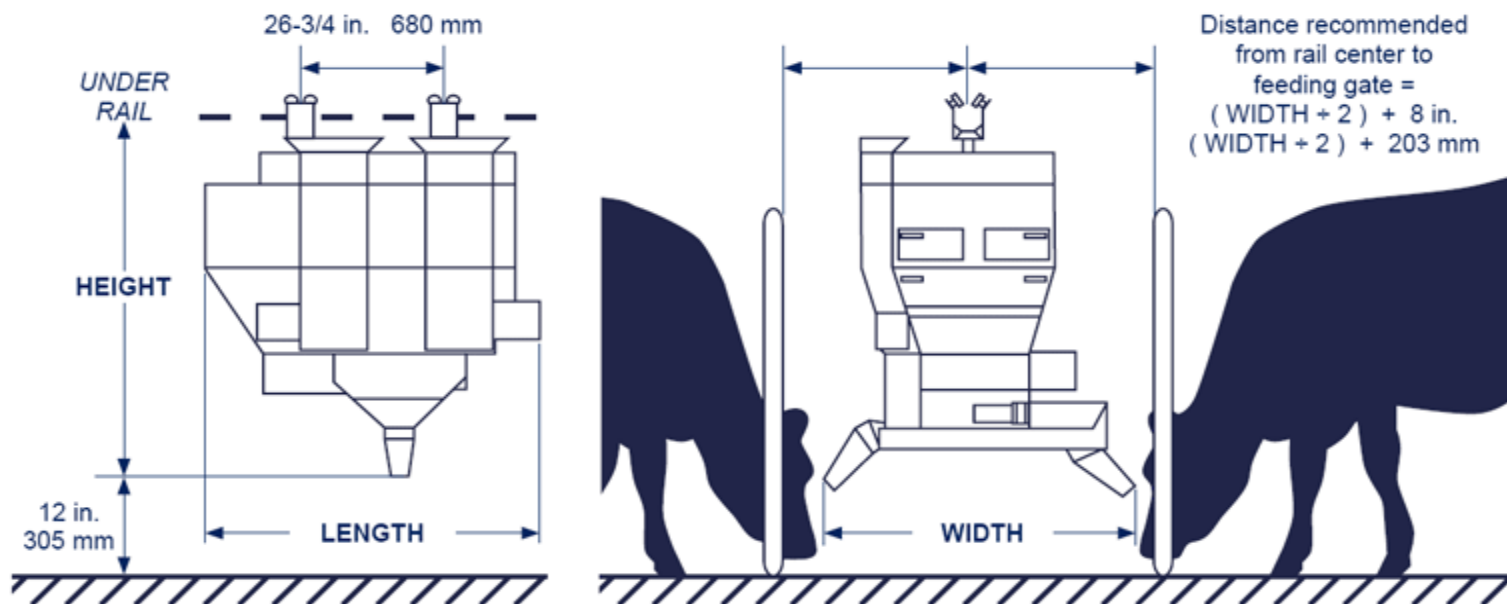
*Maximum weight loaded = 2200 lbs 1000 kg



Dimensions: Robot with 2-side discharge

MODEL	LENGTH in / mm	WIDTH in / mm	HEIGHT in / mm	WEIGHT EMPTY* lbs / kg
ROV 4000 with 2-side discharge	63 / 1600	4 available models 43 to 76 / 1092 to 1930	78 / 1981	800 / 363

*Maximum weight loaded = 2200 lbs 1000 kg



Capacity

ROV 4000	
#1 - Grain, supplement ft ³ / L	9.5 / 269
#2 - Grain, supplement ft ³ / L	7 / 198
#3 - Grain, supplement ft ³ / L	3.6 / 102
#4 - Mineral cube or powder ft ³ / L	1 / 28
#5 - Mineral cube or powder ft ³ / L	1 / 28
#6 - Mineral cube or powder ft ³ / L	1 / 28
#7 - Mineral cube or powder ft ³ / L	1 or 2 / 28 or 56
#8 - Mineral cube or powder ft ³ / L	01 / 28

