

ADVANTAGE & Superiority

Galactica's total installed power is only 21kW. However, the average energy it consumes to produce and transfer 1 ton of feed with 6 ingredients to the finished silo is only 7.45 kWh. This consumption is less than the energy used by 4 infrared heaters (UFO) to heat for one hour during winter.

Given today's rising energy prices—a trend expected to continue—profitability can only be achieved by reducing production costs. Since electricity consumption is one of the most significant items in production expenses, maintaining low consumption reduces costs for businesses that opt to produce their own feed, thereby increasing their profitability. Otherwise, the benefits gained from raw material procurement and reduced labor costs would be offset by electricity bills.

The electrical cables and fuses designated to power a facility are determined based on the facility's installed power. This factor, often overlooked during sales, becomes a significant expense during the installation phase. For instance, cables powering 16kW won't be the same as those powering 150kW.

In Galactica, six raw material bunkers, dosing screws, a crushing & mixing machine, two different feed silos, and a filling screw all fit within an area of just 8.5x13m. This compact design minimizes concrete and roofing costs. The external raw material bunkers are ingeniously designed in a semi-circular arrangement. This design, combined with the compact nature of the internal crushing and mixing machine, allows the system to occupy minimal space. Furthermore, it simplifies the process of filling the bunkers using an excavator, saving labor, time, and fuel, which in turn leads to increased profits.

Arranging rectangular structures of the same dimensions would necessitate more space, which in turn would require more area for filling. This larger area would then demand additional labor, time, and fuel, leading to increased costs. Additionally, many businesses have not allocated space for a feed center or a feed production area, making the efficient use of space crucial.



The decrease in the number of ingredients and the increase in the sieve diameter increase the capacity. In poultry and small livestock farming, coarser crushed material is preferred. In this case, a sieve with a diameter of $\varnothing 5$ mm is used, and the feed preparation capacity increases by about 10-20%.

Although this system is designed based on farms with 100-600 dairy cows, it also serves the small livestock and poultry groups excellently. In a single shift, the system prepares 12 tons of high-quality, registered, and accurate feed in 8 hours. This meets the minimum one-day feed requirement for the entire animal population of a 600-dairy cow farm. Smaller farms or producers in the small livestock and poultry groups can either use the feed they make for 5-6 days or make feed for a shorter period.

Setting up a facility much larger than what an enterprise needs increases investment costs and also raises production costs. Conversely, a facility that is much smaller or lacks essential components (e.g., only a crushing component) faces higher operating costs due to the obligation of continuous production, such as excess labor and maintenance costs.

DISCOVERY FEED PREPARATION SYSTEM COMPONENTS

Yem hazırlama kapasitesi-1,5t/h

RAW MATERIAL DOSAGE BUNKERS

6 adet x 3,4m³ (2 adet kırılacak malzeme, 4 adet kırılmayacak malzeme bunkerleri)



DIMENSIONS

2310 x 2200 x 2880 mm
Rear protection height: 845 cm

DISPENSING

$\varnothing 120$ mm auger conveyor

LENGTH

3000 mm

CAPACITY

3.4 m³ / 1560 (raw material "d": 600 kg/m³ average).

MOTOR

0.75kw, 3x380 VAC reduction motor (Bonfiglioli - Italy)

LOADING

All types of buckets for Front/Back-hoe Excavators, Telehandlers, etc.

PAINT

Electrostatic polyester-based oven paint / UV protection, 5 years salt spray test.

HIGH CAPACITY

Low Electricity Consumption



PRECISE DOSING SCALE

1500 kg Capacity with 500 g Precision

STAINLESS DOSE INDICATOR

Li-ion Battery
Net and Gross Display
Total Feed Memory
3 Steel Load Cells

CRUSHING CAPACITY

13% Moist Material

1.5 TONNES PER HOUR 12 KW

1.5 tonnes per hour feed preparation capacity, vertical type, fan-assisted blade crusher.

HAMMER MILL

Double-sided use hardened 42 steel blades
Safety switch "crusher cover closed" that prevents the crusher motor from running when open

AIR LOCK AND MAGNET

A magnet that captures iron particles within the material to protect the shredder blades and sieve
A manually adjustable airlock that allows for material intake and maximum efficiency.

MAXIMIZED MACHINE AND HUMAN SAFETY

Phase sequence relay to prevent the motors from running in reverse
Leakage current control relay to mitigate collision risks
Digital ammeter displaying the crusher's motor current
Emergency stop button that cuts off all power in case of emergencies
Illuminated start-stop buttons for the crusher and mixer motors
Practical usage instructions on the side surface of the panel

TECHNICAL SPECIFICATIONS	
FEED PREPARATION CAPACITY	1000 kg
WEIGHING	Tounak/S Type Easy-2X
MIXING CHAMBER	1000 kg
TOTAL POWER	12kW
MATERIAL TO BE CRUSHED CHAMBER	450 kg
PREMIX CHAMBER	150 kg
PAINT	Electrostatic Oven Paint
HEIGHT	3025 mm
WIDTH	2100 mm
LENGTH	1900 mm
WEIGHT	800 kg
MIXING CHAMBER	1000 kg
MATERIAL TO BE CRUSHED CHAMBER	450 kg
PREMIX CHAMBER	150 kg
PAINT	Electrostatic Oven Paint
CRUSHING UNIT	
CRUSHING BLADES	42 Pieces (Double-Sided Steel)
SCREEN HOLE DIAMETER	3-4-5-6 mm
TRANSFER	Built-in Fan
MOTOR POWER	7.5 kW (10 HP)
MAGNET	Cleanable
MIXING UNIT	
MIXING TYPE	Vertical Auger, Free Fall
MOTOR POWER	4kW (5,5 HP)

	CORN	WHEAT	BARLEY
SCREEN DIAMETER	3mm-1900kg/h	3mm-1800kg/h	3mm-1500kg/h
	4mm-2300kg/h	4mm-2100kg/h	4mm-1700kg/h
	5mm-2600kg/h	5mm-2300kg/h	5mm-2000kg/h
	6mm-3000kg/h	6mm-2500kg/h	6mm-2200kg/h

Minimum Energy Consumption

MAXIMUM SAFETY!

1

RAW MATERIAL TO BE CRUSHED

2 Pieces

Corn, Wheat, Barley

2

RAW MATERIALS TO BE MIXED

4 Pieces

Soybean Meal, Sunflower Meal, DDGS, Wheat Bran, Bran, etc.

3

CRUSHING SCREEN HOLE DIAMETER

3mm

For poultry and small livestock, the capacity increases with a 3mm screen hole diameter, up to 10-20%.

4

MOISTURE IN RAW MATERIALS

≤13

If the moisture in raw materials increases, the capacity increases, but the machine gets damaged.



COMPOSITE SILO FEATURES

- Hygienic
- Smooth surfaces
- Lightweight, easily portable
- Non-rusting and non-decaying material
- Waterproof, suitable for outdoor use
- Molded body, standard and perfect shape
- Thermal insulation, does not cause moisture due to hot-cold temperature differences

MODEL	CAPACITY		NUMBER OF LEGS	DIMENSIONS		CONCRETE DIMENSIONS	
	m ³	TON	N	HEIGHT	DIAMETER	WIDTHx LENGHT	CONCRETE THICKNESS
S35	3,5	2,1	3	3900	1500	2500X2500	200X200
S45	4,5	2,7	3	4150	1600	2500X2500	200X200
S60	6	3,6	3	4400	1700	2500X2500	200X200
S75	7,5	4,5	3	4800	1900	2500X2500	200X200
S100	10	6	3	5400	2000	2800X2800	300X300
S125	12,5	7,5	3	6000	2100	2800X2800	300X300
S150	15	9	3	6400	2200	3000X3000	300X300
S175	17,5	10,5	4	7100	2300	3000X3000	300X300
S200	20	12	4	7500	2400	3000X3000	300X300
S250L	12,5	7,5	4	8200	2450	3000X3000	400X400
S250	12,5	7,5	4	8000	2600	3000X3000	400X400
S310	12,5	7,5	4	8980	2600	3000X3000	400X400
S400	12,5	7,5	4	8400	3000	4000X4000	500X500
S520	12,5	7,5	4	9980	3000	4000X4000	500X500