PRAUF™



Galactica: Crafting Nutritional Excellence

Empowering farmers with technology-driven feeding solutions.

Galactica

FEED PRODUCTION SYSTEM

Vincent Prauf

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 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

Feed preparation capacity - 1.5 t/h

RAW MATERIAL DOSAGE BUNKERS

6 units x 3.4 m^3 (2 bunkers for breakable materials, 4 bunkers for non-breakable materials)







DIMENSIONS

2310 x 2200 x 2880 mm

Rear protection height: 845 cm

CAPACITY

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

LOADING

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

DISPENSING

120 mm auger conveyor

LENGTH

3000 mm

MOTOR

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

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

CRUSHING & MIXING SYSTEM	
FEED PREPARATION CAPACITY	1.5 T / H
MIXING CHAMBER	TOUNAK/S TYPE EASY-2X
CRUSHING / PREMIX HOPPER	450 / 150 KG
HAMMER MILL	42 HARDENED DOUBLE-SIDED STEEL BLADES
SCREEN HOLES	3, 4, 5 OR 6 MM
CRUSHER MOTOR	7.5 KW (10 HP)
MIXER	VERTICAL AUGER, FREE FALL / 4 KW (5.5 HP)
TRANSFER	BUILT-IN FAN / ADJUSTABLE AIRLOCK
DOSING SCALE	1,500 KG / 500 G PRECISION / 3 LOAD CELLS
TOTAL POWER	12 KW
H X W X L	3,025 X 2,100 X 1,900 MM
WEIGHT	800 KG
RAW MATERIAL BUNKERS	
BUNKERS	6 X 4.4 M / 2 TO CRUSH, 4 TO MIX
GRAIN PER BUNKER	UP TO 2.5 T
HEIGHT / WIDTH	3,740 / 2,060 MM
DOSING	Ø 120 MM SCREW, 1.1 KW / 8 M / H
WEIGHING	4 X 1 T LOAD CELLS (IP67, OIML)

CRUSHING CAPACITY (KG / H)			
SCREEN	**CORN WHEAT BARLEY**	**WHEAT**	**BARLEY**
3 MM	1,900	1,800	1,500
4 MM	2,300	2,100	1,700
5 MM	2,600	2,300	2,000
6 MM	3,000	2,500	2,200

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 5 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

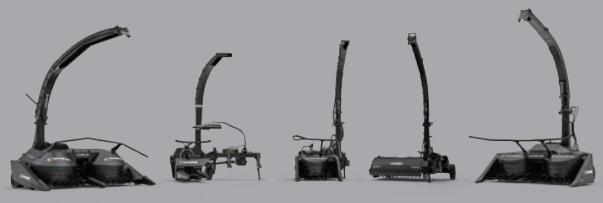
01 - BUNKERS 6 X 4.4 M^3 ON LOAD CELLS	02 - DOSING INVERTER-CONTROLLED SCREWS	03 - CRUSH & MIX HAMMER MILL + 1.5 T MIXER	04 - STORE 2 X 15 M^3 COMPOSITE SILOS

SILOS & CONVEYORS			
	COMPOSITE SILO (2X) FILLING SCREW DISCHARGE SCREW (2X)	WHEAT	BARLEY
CAPACITY	15 M 9 T	17.6 M 9 T / H	6 T / H AT 40°
MOTOR	H 6,400 / Ø 2,200	H 7,500	L 5,000 / Ø 120
DIMENSIONS (MM)	-	3 KW, 3 X 380 V	1.5 KW, 3 X 380 V

You can review Çelikel's other product groups and details on our website.



Sillage Compactor & Grass Silage Spreader



Silage Machines



Large Square Balers



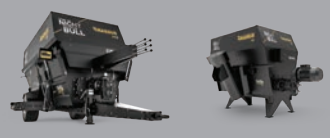
Vertical Auger Feed Mixers



Manure Management Machines



Packaging Machines



Horizontal Auger Feed Mixers



Silage Baler & Packaging Machine
Cotton Baler & Packaging Machine



Feed Production System

Experience, Dedication, and a Global Vision. Join Us!

We share values of quality, trust, and growth with our partners.

Are you interested? Let's talk!
Partnership today. Leadership tomorrow.

NEXT LEVEL
Partner with us today!

PRAUF™

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