

SYSTEM DESCRIPTION

the production and processing machinery and equipment are designed for the production of cereals for zootechnical use, in particular integrated feed for pigs, cattle, poultry, etc. products in the form of flour, cubes and crushed, both loose and packaged.

The design and construction of the systems is by the company CIMAS SRL di

Perugia, a leading company in the specific sector.

The production cycle of the plant foreseen in 10 phases

Briefly, the production process begins in the shed-patio where the reception phase (weighing and unloading) of the raw materials was to take place. Weighs a platform for both lateral and rear tipping of trucks used for transportation of raw materials. Then by means of a metal hopper of dimensions

14 x 2.50 meters with a load-bearing grid, the raw materials had to be stored in silos

also with the help of conveyor belts (capacity equal to about 100 t/h. The silos

there are 16 metallic ones, of the vertical cylindrical type, with volumes varying between 70 and 1,350 cubic meters. The

total storage volume is 5,000 m³.

The raw materials from the silos pass through belts in the upper part of the structure

vertically developed reinforced concrete. Its height is 17 m, the plan is rectangular

of 7.50 m x 6.50.

In this structure the dosing of the elements had to take place first

finished feed inside 3 containers equipped with weighing commanded and controlled by one

specific central computer that had to establish the quantities of the various components, in

reason of the % of each, in the finished mixture.

After the dosage, the grinding is foreseen by means of a mill

hammers with a power of 92 kW and an hourly grinding capacity of 15 t/h.

This was followed by the mixing of the flours inside a horizontal mixer

having a production capacity of 30 t/h.

The mixtures thus obtained could be packaged in bags or stored in

loose form in the silos, or still subjected to further processing of dicing or

crushing using a special steam machine. a power of 92 kW and a

production capacity of 7.5 t/h of finished product.

All the machines present in the structure in c.a. they are vertically developed

connected to a suction system for the dust produced during the processing phases.

Adjacent to the production shed-laboratory there are 2 rooms

technical areas (useful size 2.30x3.40 m²) in which the boiler and compressors are housed.

Access to them is autonomous and directed outside on the opposite side to the

central square. of the area of interest. In these premises there is a pressurized boiler of

combustion type with automatic operation with diathermic oil manufactured by IVAR (VR) - mod. OD-ODV - type ODE C 1000 having the following characteristics

technical: nominal capacity=1,000,000 kcal/h; hearth potential=1,149,500

kcal/h; pressure=5 atm; production capacity=1620 kg/h; year of construction=1991. In the

in the technical room a Rotar-brand silenced rotary compressor is installed for

the production of the compressed air necessary for the servo controls of the entire system

having the following technical characteristics:

model=ISC10; V 380 - 3; Hz 50; kW 11;

HP 15; At 23; surrender air-F-A.D. 1.40 m³/min; max pressure=10 bar; 10 liter tank.

The compressed air storage tank is of the "Fini" (B0) brand

capacity of 1000 litres; year of production 1991. The refrigeration and

dehumidification of the air is of the "Artic" brand.

PRODUCTION PLANT FOR ANIMAL FEED complete line.

the machinery is practically new, never turned on, the machinery and production and processing equipment are designed for the production of cereals for zootechnical use, in particular integrated feed for pigs, cattle, poultry, etc. products in the form of flour, cubes and crushed, both loose and packaged.

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The production cycle of the plant envisaged in 10

1. storage silos;

(weighing and unloading) of raw materials. There is an industrial weighbridge and a large metal hopper

14 x 2.50 meters with a load-bearing grid, the raw materials had to be stored in silos

also with the help of conveyor belts (capacity equal to about 100 t/h. The silos

there are 16 metallic ones, of the vertical cylindrical type, with volumes varying between 70 and 1,350 cubic meters. The

total storage volume is 5,000 m³.