



Feed factories

GENERAL CATALOGUE



Presentation

Efficiency in feed production will be in the coming years one of the major challenges in the sector to meet the growing demand for animal production. This efficiency will be based on the improvement of the technological solutions made during the manufacturing process.



Through our company MGN we implement the most efficient technological solutions in each of the processes involved in the preparation of the feed: reception of raw materials, storage, grinding, dosing, mixing, granulation, sieving, transportation and distribution.

MGN, with more than 30 years of experience in the sector, is dedicated to the manufacture and assembly of feed factories. We offer different solutions and machinery for all types of projects, from small facilities to complete “turnkey” factories.

All our products have been designed and manufactured to fit the business model that its company needs with a high operating autonomy and easy integration.

Our consolidated experience in Spain as well as France, Portugal, Morocco, Russia, Venezuela, Chile and Guatemala has enabled us to develop as a feed factory supplier at an international level.

We have facilities with over 6,000 m², and we manufacture a high-quality technology product, with an agile and efficient service. We offer customised 2D and 3D designs, which offer the best service and confidence, by adapting them to the needs of our clients.

Our Factories are ready for your visit and our staff is willing to assist you.



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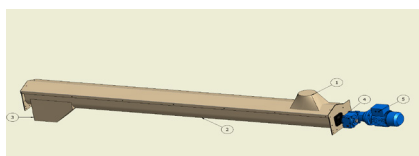


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Feed factories for feeding livestock



Complete projects

We design, plan and supply all kinds of facilities for the manufacture of feed for productions ranging from 300 Kg/hour to 80tn/hour in finished feed.

The power in the mill range from 7.5 to 300 hp. and with designs of all types (floor, tower, various sections, etc.).

Whatever the size of the facilities, it will always be manufactured to last, for this purpose we look for maximum robustness and maintenance that is simple and economic.

We carry out all types of feed factories

- Aquaculture feed
- Pet food
- Cattle feed
- Beef
- Chicken
- Sheep
- Porcine
- Multifeed
- Premixes and concentrates



Hammer mills



Cylindrical grinding chamber, determined by a perforated plate sheet or sieve, with multiple holes and an upper opening, through which the product to be ground is introduced, which comes from a feed tank located above the feeder.

The rotor is inside the grinding chamber, which holds the hammers that hit the grain against the sieve, transforming it into flour or feed.

The mill is provided with a partial shutter that determines a quench inlet that, due to the Ventury effect, facilitates both the product inlet and that said intake is performed in favour of the rotation of the hammers.

The screen is mounted by simply supporting its edges on circular guides in the lids, which close their ends with the grinding chamber, fixing said sieve through fastening devices.

Floating rotor on ball bearings and SAMIFLEX elastic coupling.

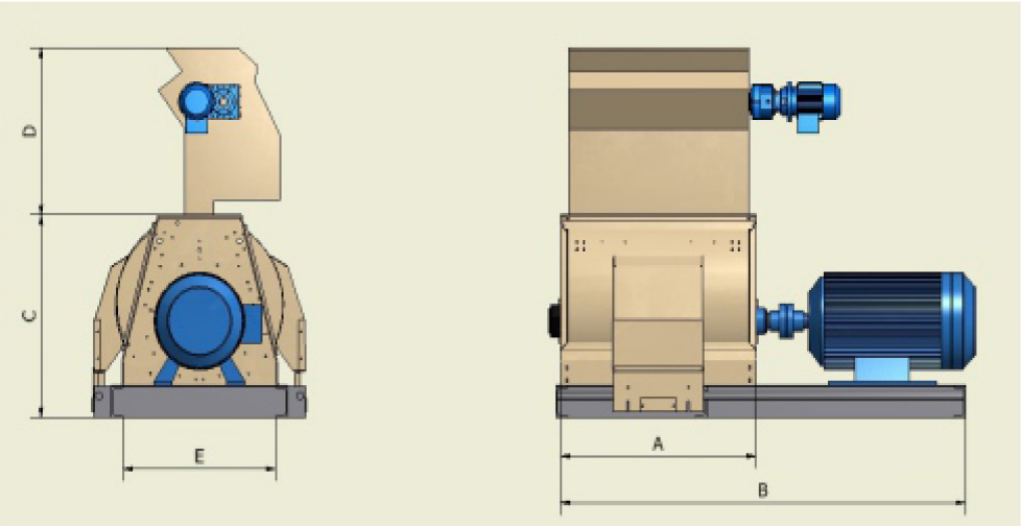
Electric motor equipped with thermal probes that disconnect it in case of temperature rise.

95 dB and 70 dB noise level at the foot of the machine in the control booth (measurements made in an AR-6/100 hp grinder with a RION NL-18 noise level calibrated according to Directive 89/336 / EEC. SMC, UNIVER Pneumatic operation.

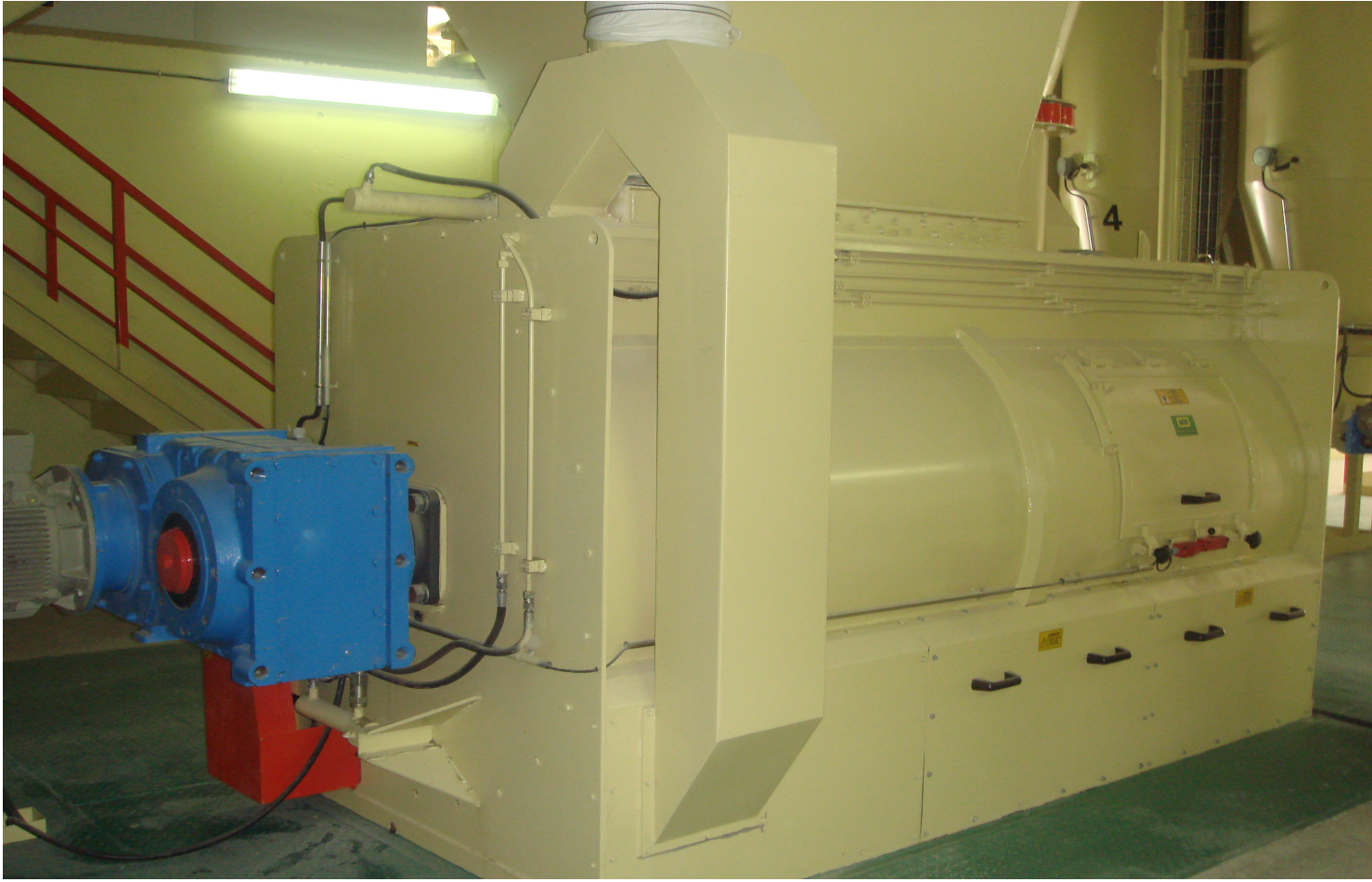


Hammer mill models

Model	cv / kw	r.p.m.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Weight
AR - 2	20/15	3.000	250	1135	1040	862	978	425
AR - 3	30/22	3.000	350	1235	1040	862	978	590
AR - 4	40/30	3.000	465	1455	1040	862	978	790
AR - 5/P	50/37	3.000	705	1865	1040	862	978	1150
AR - 5/G	75/55	3.000	705	1865	1040	862	978	1180
AR - 6/P	100/75	3.000	1010	2170	1040	862	978	1750
AR - 6/G	150/110	3.000	1010	2170	1040	862	978	1750
AR - 7	220	3.000	1200	2370	1040	862	978	2025
AP/BV - 6	150/110	1.500	1000	2364	1504	1012	1804	2120
AP/BV - 7	180/132	1.500	1000	2364	1504	1012	1804	2180



Mixers



Circular trough-track made of 4 mm steel plate sheet. electro-welded, with large filling and emptying gates and straight section for application of injectors for the incorporation of liquids.

The steel shaft dimensioned according to UN/EN/ISO standards, supported on bearings at its ends where press sets are applied for total leak-tightness.

In the MZ model, the mixture is made by two countercurrent coils of robust construction, whereas in the MZP model the mixture is with 8 adjustable metal blades oriented at 120° , in which the time taken for the mixture is about half that of the MZ model. In both cases, the mixture is homogeneous at the given time.

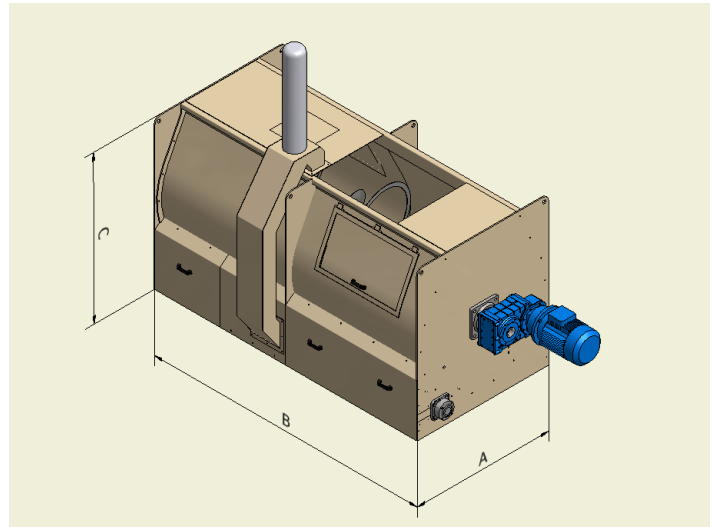
The frontal part of the machine is detachable and made of 10 mm thick steel plate.

Quick-fill and longitudinal drainage dampers with full opening or through skimmers totally sealed to the dust outlet.



Safety mechanism that prevents access to the interior of the trough-track while the motor continues to rotate even if the interior is inaccessible in a normal assembly.

Working speed of 25 rpm transmitted by a geared motor to the shaft, which requires minimum maintenance and provides long life to its parts. Noise level at the foot of 45dB machine (measurements taken in a mixer MZ-2000/C/12.5 hp with RION NL-18 Sound Level meter calibrated according to Directive 89/336 / EEC.



Mixer models

Model	Engine HP	Load (l.) ²	Load (kg) ³	A (mm) ⁴	B (mm) ⁴	C (mm) ⁴
MZ - 100	1	100	100 ⁽¹⁾	600	800	660
MZ - 200	2	200	200 ⁽¹⁾	600	1400	660
MZ/MZP - 500	1/3/5.5	500	250	850	1150	950
MZ/MZP - 1000	5.5/7.5/12.5	1000	500	850	2500	950
MZ/MZP - 2000	12.5/20/20	2000	1000	1080	3000	1190
MZ/MZP - 3000	20/30/30	3000	1500	1375	3000	1450
MZ/MZP - 4000	25/50/40	4000	2000	1475	3000	1550
MZ/MZP - 6000	40/60/60	6000	3000	1650	3500	1850
MZ/MZP - 8000	60/75/75	8000	4000	1900	3500	2100
MZ/MZP - 10000	75/100/100	10000	5000	2100	3500	2300

(1) Exclusive version for correctors

(2) Feed mixture motor power, for correctors and blades in both versions (in this order)

(3) In the corrector version, the load in kg depends on the density (approximately double)

(4) Dimension in millimeters

Mixing time	
Model MZ with double spiral	Model MZP with adjustable blades
4 minutes	2,5 minutes

Cells



Constructed in special folded “ZIG-ZAG” plate at 60° of inclination.

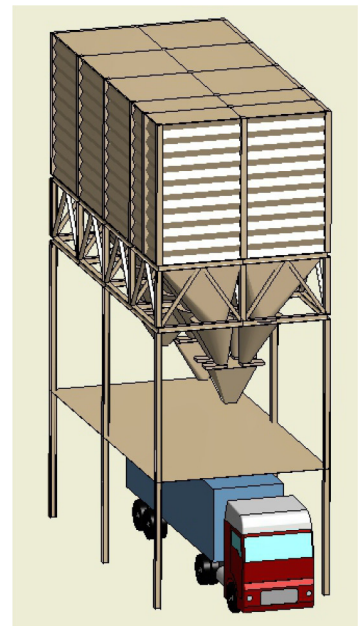
Provided with cones and counter-cones.

Pillars in the proper profile of hot rolled steel grade A-42b, calculated to support weights, vertical forces, wind, snow and seismic moments depending on the location.

Provided with support plates at the top of the pillar, gussets, etc.

3/5 mm thick normalized treadplate sheet roof.

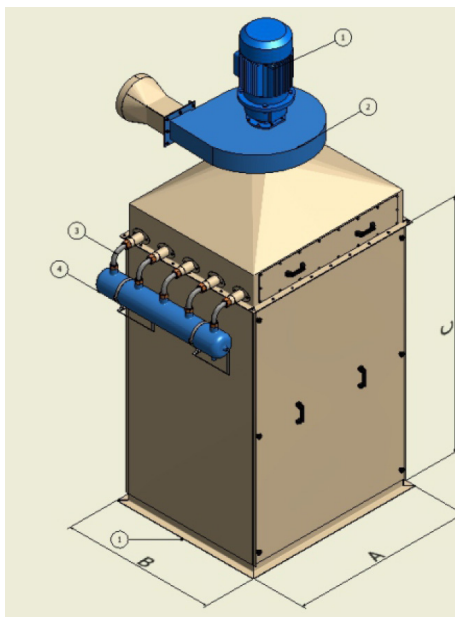
Inspection gate manhole.



Filters

Continuous-flow sleeve filter with sequential automatic cleaning by direct injection of compressed air, composed of:

- Sleeves with their support cages and Venturi.
- Aspirator diffuser inlet.
- Electro-aspirator with an electric motor.
- 24 v. Solenoid valves
- Support chassis.
- Electronic trip sequencer.



1. Flange motor
2. Aspirator
3. Solenoid valves (2, 3 and 5 units)
4. Boiler

Model	N° sleeves	Area	A (mm)	B (mm)	C (mm)
F - 8	8	2,8	860	520	1000
F - 15	15	10,8	1070	725	2000
F - 25	25	18	1070	1070	2000
F - 25C	25	18	1370	1865	2000
F - 30	30	22	1280	1070	2000
F - 45	45	33	1925	1070	2000

Dosing



Dosing of additives or micros is made through hoppers, whose capacity depends on the dose volume.

They can be of round or square construction, with different degrees of inclination in the cone.

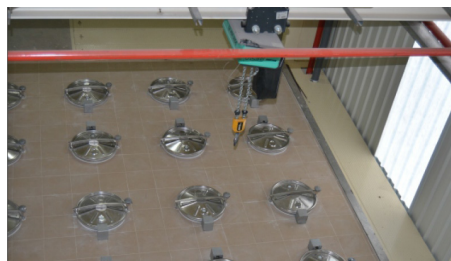
They are manufactured in standard steel plate or stainless steel plate. And they can be supported in the structure of the factory or have its own platform and structure.

Dosing is also realised with BIG-BAG sacks, in this case, the supports are placed to hang the bag.



The most used system of hopper loading and BIG-BAG is the Hoist, or Air-Crane, which is also supplied and installed by MGN.

In some cases, the load is carried out by other methods, such as Elevators, distributors or even manually.



Distributors



With an inclination of 45-60°, constructed in 3 mm steel plate. The top part, in 4 mm plate. The cone in the lower diverter and in 6 mm. The inner rotary duct. Powered by gear motor of 0.25 HP. with brake, which ensures a perfect positioning of the inner duct in the desired throat.

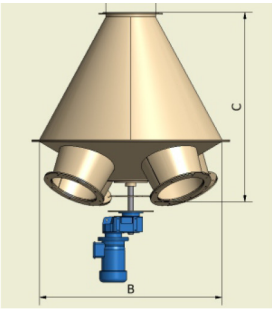
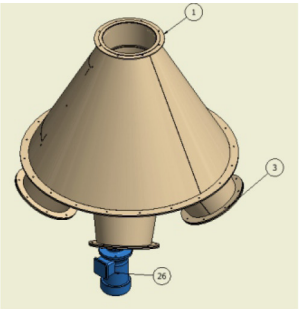
Motorized operation

Manual control

Product to deliver:

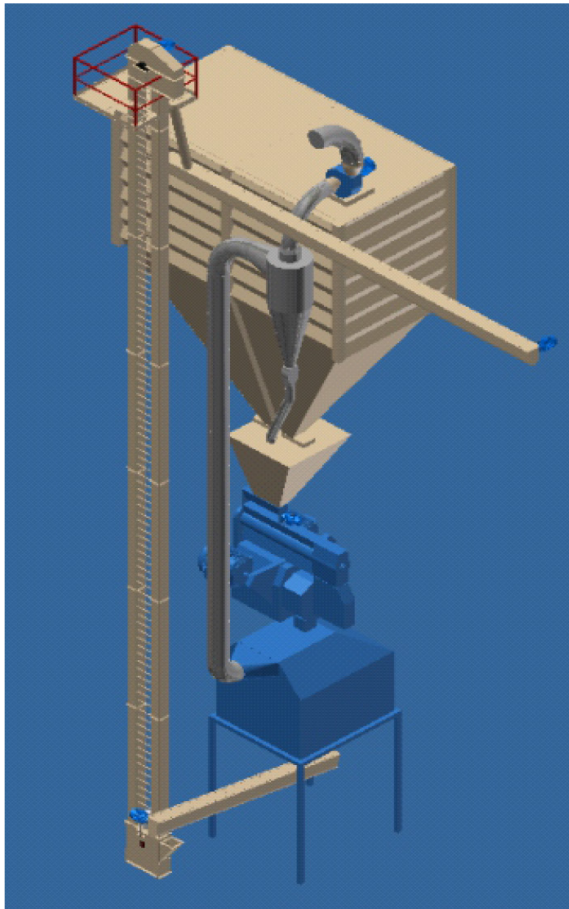
- Cereals
- Flour
- Granules
- Micro-components

Model	N° outlets	Gearmotor	A (mm)	B (mm)	C (mm)
DR - 4	4	0,18 kw	200/300	660	590
DR - 6	6	0,18 kw	200/300	840	770
DR - 8	8	0,18 kw	200/300	1140	1050
DR - 10	10	0,18 kw	200/300	1150	1160
DR -12	12	0,18 kw	200/300	1400	1470
DR- 16	16	0,18 kw	200/300	1800	1820
DR - 32	32	2 - 1,1 kw	300	2830	2680



1. Inlet throat
2. Gearmotor
3. Outlet throat

Pelleting equipment



Complete installation of Granulation Lines, with presses, coolers, cyclones, steam boilers, re-greasing, shredding, and adding press liquids.

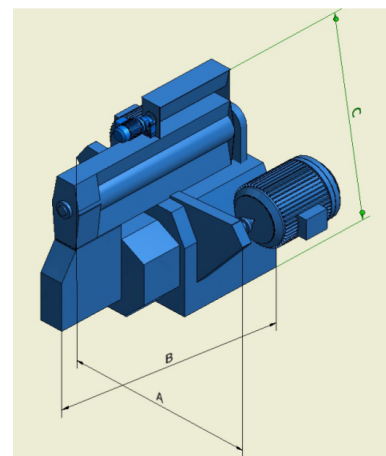
Shredder with long life casting rollers. Pneumatic handling of the bypass cap.

Fully automatic control of the granulation process.

Feeder and Conditioner (Possibility of double conditioner).

Countercurrent Cooler with 3 sensors: maximum, minimum and overload.

Model	Power (kw)	A (mm)	B (mm)	C (mm)	T/H	Cooler
MGN - 350	2X30	1710	2100	1730	2,5	MGCC05
MGN - 420	2X55	2150	2600	2150	5	MGCC10
MGN - 520	2X75	2150	2600	2150	11	MGCC15
MGN - 650	2X110	2380	3030	2530	20	MGCC20
MGN - 800	2X160	2540	3100	3025	38	MGCC25



Transport machinery

Paddles conveyor

Model	Perf. ratings	A (mm)	B (mm)	C (mm)
TP - 125	15-25T/h	500	415	130
TP - 250	30-50 T/h	500	415	250
TP - 320	50-75 T/h	500	415	320



Chain conveyor

Model	Perf. ratings	A (mm)	B (mm)	C (mm)
TC - 220	35 T/h	800	347	220
TC - 270	50 T/h	800	398	270
TC - 320	100 T/h	960	557	320
TC - 420	140 T/h	1100	750	420

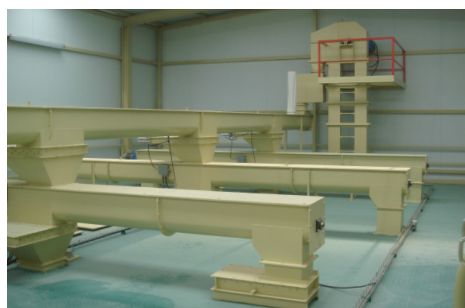


Bucket elevators

Model	Perf. ratings	A (mm)	B (mm)	C (mm)
EC - 130	20 T/h	800	950	200
EC - 160	35 T/h	750	975	313
EC - 200	50 T/h	860	975	353
EC - 300	100 T/h	1080	1350	435
EC - 400	140 T/h	1230	1400	540

Screw Conveyors

Model	Perf. ratings
TR - 220	20 T/h
TR - 270	35 T/h
TR - 320	50 T/h
TR - 420	100 T/h





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