FEEDTECH

HIGH-END SOLUTIONS FOR FEED INDUSTRY

Since 1969

About Us

The story of Feedtech dates back to 1969, when the family owned company used to be a feed mill plant.

In 2000, Feedtech started to manufacture turnkey projects & deliver bespoke installations. Backed up by the experience of animal feed production, Feedtech now has a license agreement with two worldwide dutch leaders.

All the primary functions of Feedtech including sales, engineering, manufacturing, servicing, R&D, testing and administration, are based in Turkey which provides a high cost efficiency since international projects are combined with the cost advantage of producing in Turkey.

Feedtech currently exports to 26 countries in other words, 70% of the production is being exported.

With thousands of projects and satisfied customers all over Europe Feedtech guarantees high quality, high end solutions and highest technology as part of ongoing improvement.

Contents

Fish Feed Factories

Extrusion is the heart-beat of an aquatic feed processing plant. Still it largely depends on a well designed pre-extrusion and post-extrusion process to ensure the desired nutritional and physical outcome of the extruded final product is achieved. Knowledge and understanding of the raw materials, both dry and wet (or fresh) to be used in formulations are of utmost importance in designing and specifying a process that will optimize extrusion performance. Pre-extrusion process design plays a key role in producing extruded aquatic feeds that are feed safe and environmentally friendly.

Pet Food Factories

Our machines produce petfood with very high precision. Whatever the desired size, shape or moisture of the food might be, Feedtech machines will fulfill all your needs. The drying process, colorings and flavorings as well as powdered components of every variety can be added as required.

Our machines enable your production process while focusing on the customer, cost-efficiency, and high standards.

Whether you are looking for a complete turnkey project or a customised high end solution, Feedtech is the right place.

Precise feed composition

Highly consistent pellet quality regarding size, shape, surface, color, and density

Highly consistent pellet absorption and retainability of liquid fat and digest ingredients

Consistent and uniform pellet dryness

Processing with careful attention to protection of essential nutrients

Optimization of energy consumption

Premix plants

Our premixes plants benefit from pharmacy-inspired technology with high precision. Premix plants for the production of 0.2% premixes or 10% to 20% supplementary feeds are no challenge for us.

We offer the appropriate technology:

- Adoption technology
- Silos
- Conveyor technology for bulk materials
- Dosing and weighing systems
- Grinding systems and screening technology
- Pelleting plants and pellet coolers
- Filter systems and piping systems
- Packaging technology for bagged goods and big bags
- Computer controllers and process control systems

Biomass Pelleting Plants

There is a rapidly growing need for environmentally friendly fuel in large-scale power stations and in the private market as a result of the Kyoto protocol. An alternative fuel solution for saving money, reducing oil dependency and helping save the planet and its natural recourses.

Feedtech helps you to fuel your business in an environmentally friendly way by designing solutions for wood/waste grinding, pelleting, pressing, cooling, filtering, conveying and storing since Biomass pellets are now known to be a high value, high energy and high heat producing fuel and a sustainable alternative to the Worlds traditional fossil fuels.

There is a huge worldwide problem with Plastic waste which can be turned in to RDF or SRF, Together with our partners we have and worked on the production of Pellets from RDF/SRF and are able to talk with you about the process and what equipment is needed. We are proud to say we can help to make a huge Environmental difference by helping to Rid the world of mountains of RDF waste by turning it in to a valuable fuel source.

Containerised Feedmill

There are many advantages opting for a partially containerized aquafeed plant. What follows in the remainder of this article discusses the most obvious advantages and characterises of containerized plants:

Whether building a conventional or containerized aquatic feed plant, it is and should be designed to fulfill a specific feed manufacturing function successfully.

A containerized plant ensures that the responsibility is left to the supplier. A containerized plant also ensures that all equipment in the plant is well functioning and everything goes well together at the time of Installation.

All equipment, conveyors, electrical installation and process control devices are installed and assembled at the point of manufacture before shipping takes place.

The installation time is reduce by almost 50% in comparison to conventional plant.

Unnecessary assembly and installation time and problems getting support structures, transitions, ducting, cabling and other mechanical and electrical materials and services are spared.

Such a building is designed to be carrying its own weight as the containers installed inside the building carry the load of all plant and equipment. This reduce building cost and installation time substantially.

No special crane and shipping materials are required as the individual container modules are simply cladded with protective sheets meeting international shipping requirements and standards. Once on-site these sheets are simple removed before installation of the containers modules.

Specialist In Square Silos

Our square silo concept is applicable in a wide variety of industries all over the world. The rectangular silo concept is characterised by an optimum storage capacity and flexible layout options. Dry raw materials are often processed into high-quality end products under one roof. Offers up to 25% more loading storage capacity.

Advantages

- Maximum storage capacity
- Optimum flexibility and traceability
- Part of your process
- Structural part of the building
- 100% custom-made
- Greater sustainability
- Efficient transport

Hammer Mill FHM

Hammer Mill FHM1500 is designed to achieve excellent results in grinding raw materials for pet food, poultry, cattle, aqua feed and food industry. FHM series provide a high capacity, non-vibrating process with its prescreening crumbler plates.

SPECIFICATIONS

- 1500 cycle/minute rotation speed
- Suitable for aspirated grinding
- Interchangeable plates
- Central product intake
- Rotates two directions
- Heat sensors on main bearings
- Heat sensors on the grinding chamber
- Maximum screen area of 3,2 m^2
- Maximum 8 rows of hammer
- Adjustable rotor
- Provides non-vibrating performance with roller bearing
- Electro pneumatic operated product guide valve
- Built on heavy base frame with shock absorbers
- Precisely balanced rotor guarantees a long service life
- Suitable for frequency control

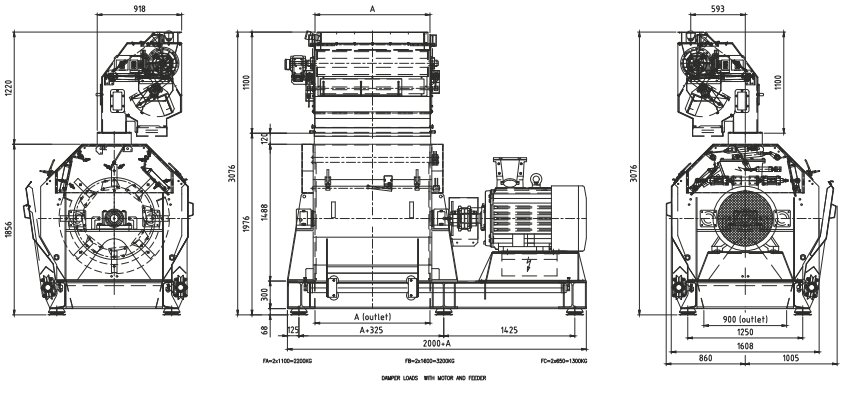
ADVANTAGES

- New ergonomic rotor design (easy to replace hammers)
- Completely Atex certified
- Energy-efficient motor
- New hygienic design
- Easy maintenance Access
- Screen damage control (SDC) system

APPLICATION AREA

Grinding of derivatives and/or combinations of derivatives and grain in the:

- Animal feed industry
- Pet food industry
- Aquafeed industry
- Wood recycling industry



HAMMER MILL FHM

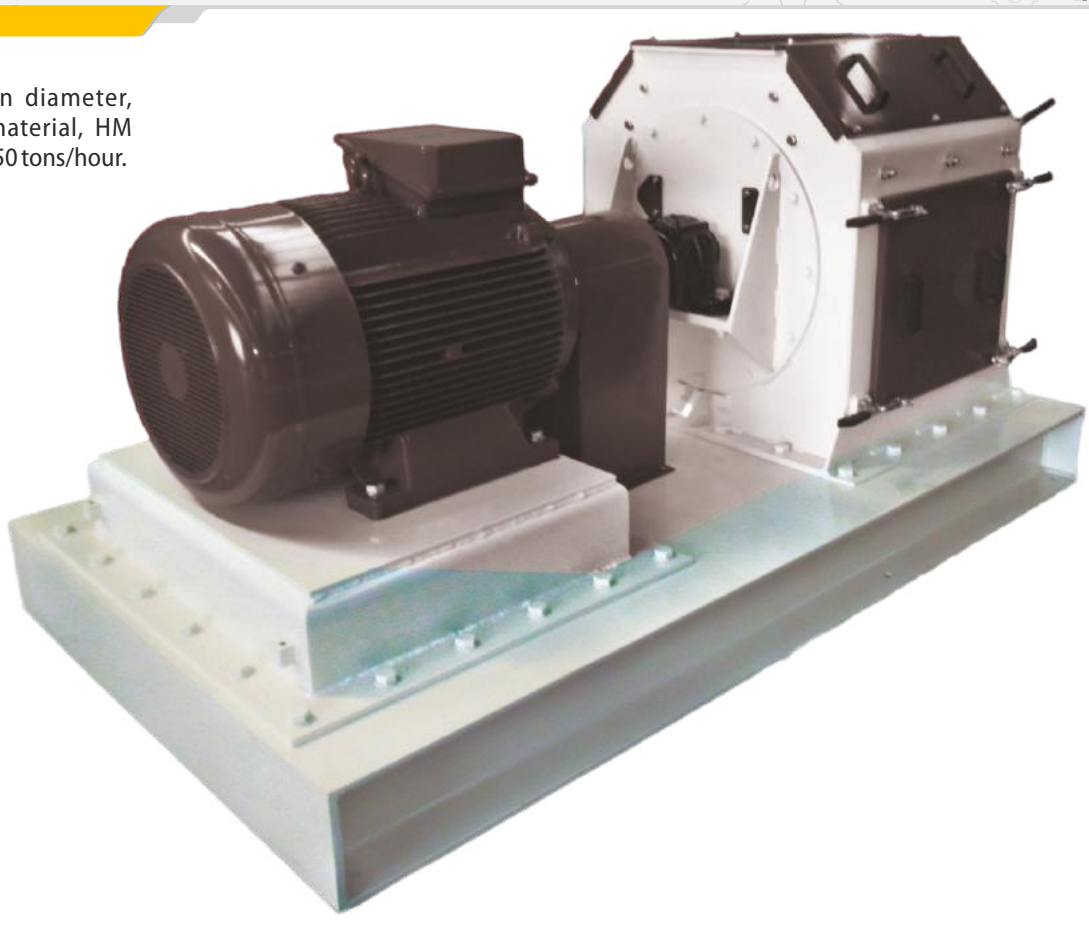
Type	Motor Power (kW)	Size A(mm)	Screen Surface (m^2)		Number of Hammers		Capacity (t/h)*		Weight (kg)**
			Manual	Automatic	6 Row	8 Row	Maize	Barley	
FHM 500	75-110	500	1,16	0,82	66	88	0-20	6-15	2230
FHM 750	132-200	750	1,80	1,30	96	128	20-35	12-20	2700
FHM 1000	160-250	1000	2,40	1,80	120	160	30-50	18-25	3200
FHM 1250	250-400	1250	2,96	2,20	138	184	45-60	23-30	4500

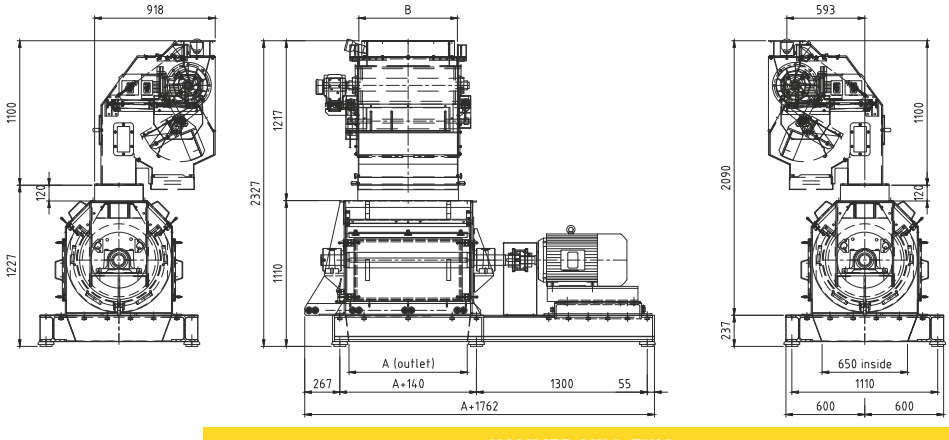
* Capacity is for 3 mm screen diameter.

** Weight does not include motor.

Hammer Mill HM

Depending on the screen diameter, moisture and type of raw material, HM Hammermill's capacity varies 5-50 tons/hour.





FEATURES

- 1500-3000 cycle/minute rotation speed
- Maximum 1,7 m^2 screen area
- Suitable for aspirated grinding
- Interchangeable screen cassettes
- Suitable for grinding in a grinding hopper
- Central product intake
- Rotates two directions
- Heat sensors on main bearings
- Heat sensors on the grinding chamber
- Maximum installed power 250 kW

OPTIONAL

- Automatic filter cleaning system
- Fan with/without frequency control
- Screening system preventing the mill from powder
- Discharge conveyor systems
- Sifter installation on top of hammer mill

APPLICATION AREA

Grinding of derivatives and/or combinations of derivatives and grain in the:

- Animal feed industry
- Pet food industry
- Aquafeed industry
- Wood recycling industry

HAMMER MILL FHM

Type	Motor Power (kW)	Size		Screen Surface (m^2)	Number of Hammers	Capacity (t/h)*		Weight (kg)**
		A(mm)	B(mm)			Maize	Barley	
HM 650	55-90	600	500	0,85	42	4 – 7	2 – 4	1600
HM 950	110-132	900	750	1,2	62	6 – 10	3 – 6	1970
HM 1100	132-160	1050	1000	1,5	78	7 – 12	4 – 7	2460
HM 1300	160-200	1250	1250	1,7	120	9 – 14	5 - 9	2850

* Capacity is for 3 mm screen diameter.

** Weight does not include motor.

Hammer Mill Feeder

Feedtech HM Hammer Mill Feeder is designed as a supply source to the hammer mill. Automatic feeder, which is operated by a controlled frequency, converter is applied by a reducer motor. It has an integral stone catcher to prevent stones from entering the mill. Iron particles are captured by an extra sensitive magnet through its automatic filtering system, thus preventing the particles from entering the mill.

The supply cylinder, stone catcher, magnet and collecting tray are placed in a fully leak-proof supply tray. Special multi dosage spiral could be used as an alternative solution for extremely greasy and low fluid property products.

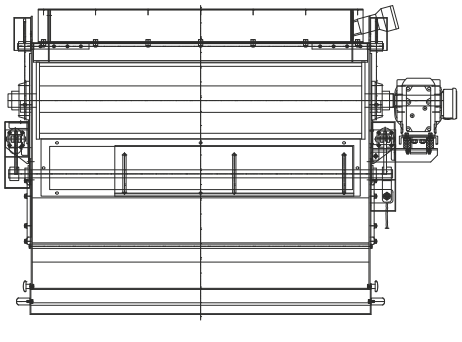
FEATURES

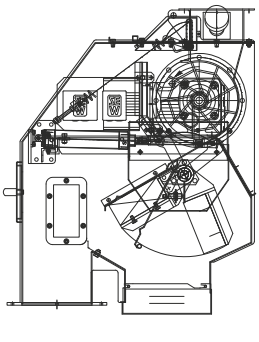
- Capacity is 5-60 t/h depending on the type
- Maximum feed width: 1250 mm
- Frequency control
- Natural, strong and sensitive magnet
- Automatic magnet cleaning
- Stone catcher

APPLICATION AREA

Grinding of derivatives and/or combinations of derivatives and grain in the:

- Animal feed industry
- Pet food industry
- Aquafeed industry
- Wood recycling industry





HAMMER MILL FEEDER		
Type	Manual Type Power (kW)	Automatic Type Power (kW)
HM TP 650	1,5	2,2
HM TP 950	1,5	2,2
FHM TP 250	1,5	2,2
FHM TP 330	1,5	2,2
FHM TP 500	1,5	2,2
FHM TP 750	1,5	2,2
FHM TP 1000	1,5	2,2
FHM TP 1250	1,5	2,2

DPMA Double Shaft Mixer

DPMA mixers are used to make various material compounds a homogeneous mixture. Vegetable and animal oil, liquid premixes and water can be added, as well. DPMA Double Shaft Mixers' main specification is fast and homogeneously mixing. It only takes 30-60 seconds even for rigid and/or fragile, flake-like materials to be mixed. The mixer has four or more paddled shafts. Different capacities raging from 500 to 20.000 liters.

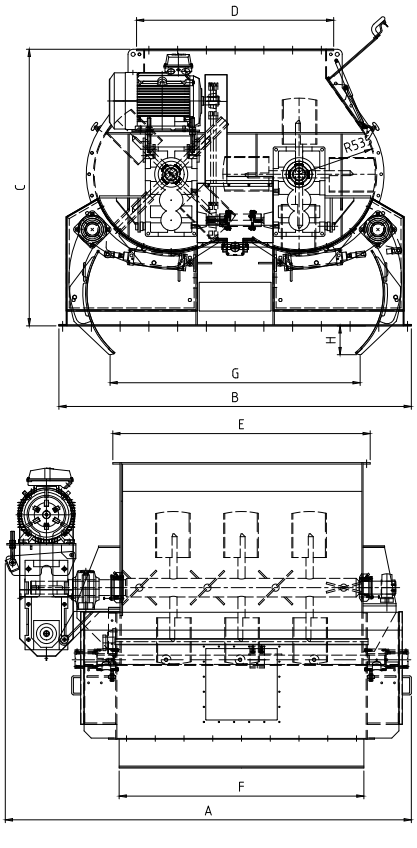
The mixing accuracy meets the very stringent requirements, while damage to products is minimised due to its design. Extra wide bombdoors and a unique sealing principle ensure a residue and dust free operation. The opposite movement of internal and external paddles increases the efficiency of the mixing process. It has double sub tubes along sides of the mixer for fast and waste-free drainage. Drainage process lasts max. 20 seconds.

FEATURES

- Capacity: 200 – 12000 liters
- Line capacity: 1,5 – 120 ton/hour
- Short mixing time of 30-60 seconds
- 25% of the maximum volume to be filled
- Variation coefficient (VC): less than 1,5%
- Mixing accuracy: 1/ 100.000
- Sliding plate (tray)
- Low energy consumption
- Available in different materials (S235/304/316) and finishing standards (up to 0.3mμ)

OPTIONS

- Liquid dosing equipment
- Atex execution
- Weighing frame
- Replaceable paddles (Hardox)
- High sealing components

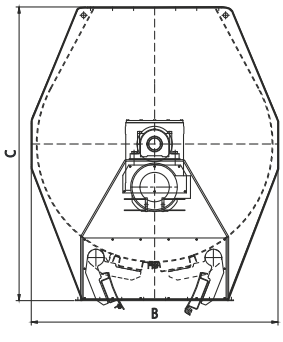


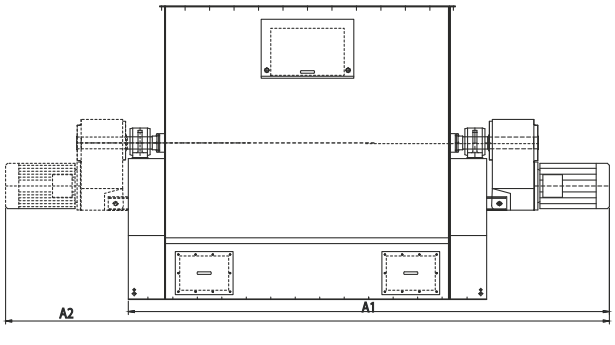
DPMA DOUBLE SHAFT MIXER

Type	Motor Power (kW)	Size								Weight incl. motor (kg)
		A	B	C	D	E	F	G	H	
DPMA - 500	5.5	1680	1500	1300	1338	1090	963	665	65	1150
DPMA - 700	9.2	1765	1570	1180						1900
DPMA - 1100	15	2130	1640	1680	550	1416	1250	840	70	2000
DPMA - 1400	30	2340	1790	1760						2300
DPMA-2100	37	2825	2340	1925	1372	1791	1703	1740	200	5000
DPMA - 2800	45	3055	2655	2040	1612	1986	1914	1830	350	5200
DPMA - 3500	45	3350	2460	2200	1765	2096	2008	2086	430	6500
DPMA - 5000	55	3475	2835	2400	1882	2540	2288	1066	70	7000
DPMA - 7000	75	3875	3130	2500	2130	2740	2468	1066	70	9000
DPMA - 8500	75	4060	3305	2500						11000
DPMA - 10000	90	4245	5020	2500						11500
DPMA - 12000	132	4650	5290	2500						13000

PM Single Shaft Mixer

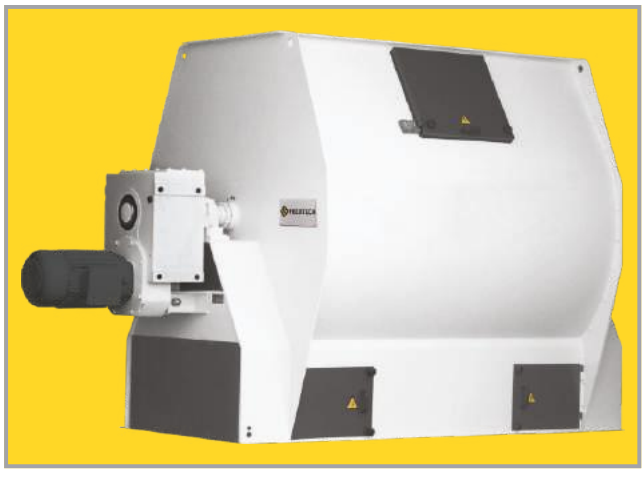
Feedtech single shaft paddle mixers are equipped with pneumatic operated bomb doors under the full length of the mixing trough. This shortens the discharge time to approximately 15 seconds. The mixing plant can operate fully automatically with a capacity up to 20 batches per hour.





FEATURES

- Mixing accuracy of 1:100.000
- Short mixing time of approx. 120 seconds
- Discharge time of 15-20 seconds
- Reliable sturdy construction
- Low power consumption
- Hygienic design
- Easy replaceable and adjustable paddles
- Special execution
- Stainless steel executions
- Increased drive capacities
- Rilsan coating on the mixer shaft
- ATEX22 certified components



PM SINGLE SHAFT MIXER

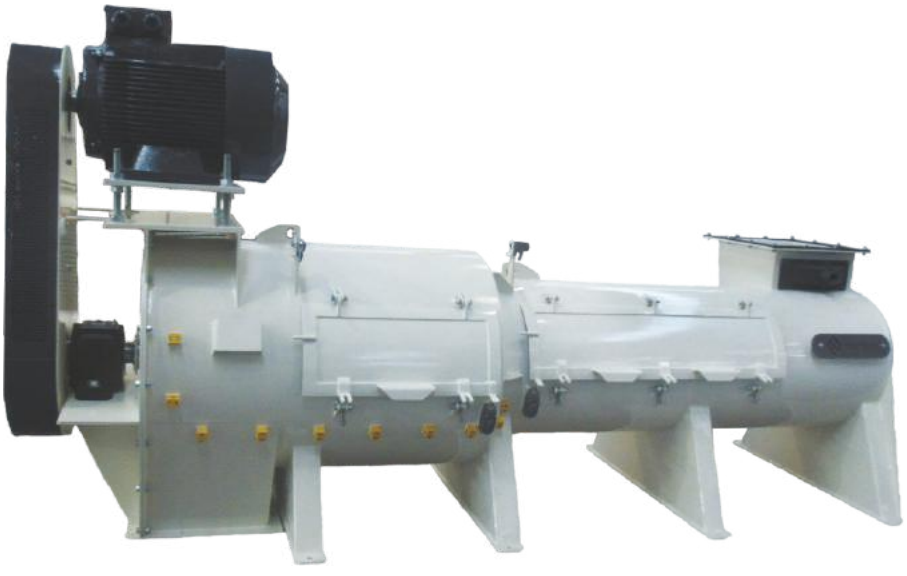
Type	Motor Power (kW)	Size				Content (L)	Weight incl. motor (kg)
		A	A(2)	B	C		
PM 100	100	2,2	1275	-	658	650	400
PM 300	300	5,5	2085	-	862	1050	900
PM 500	500	9,2	2405	-	1000	1300	1300
PM 1000	1000	11	2725	-	1210	1600	1950
PM 2000	2000	18,5	3415	-	1460	1900	2600
PM 4000	4000	30	4005	-	1810	2200	4200
PM 6000	6000	45	4605	-	2115	2550	5900
PM 8000	8000	2x37	-	5600	2320	2725	9800
PM 10000	10000	2x45	-	6545	2520	3000	11500

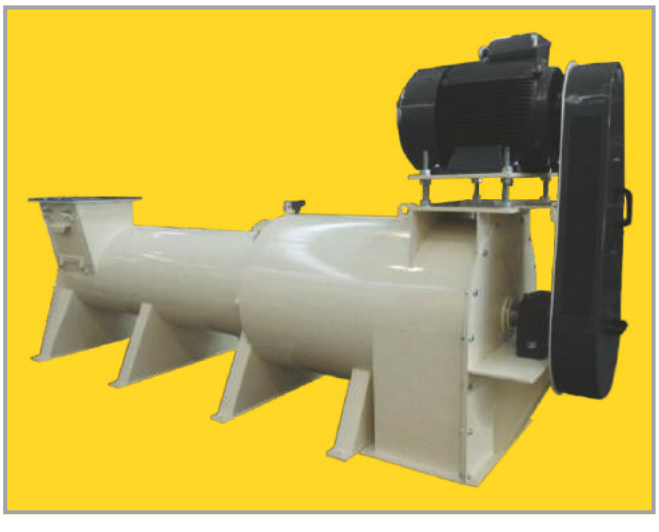
Weight incl. motor

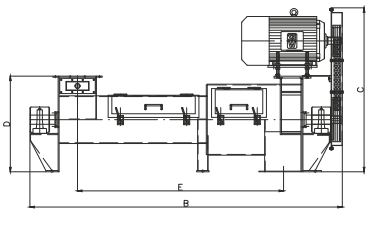
Molasses Mixer

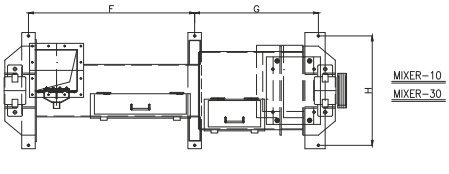
This mixer is designed to mix dust feed and molasses homogeneously. Paddles, that fixed on main shaft and have adjustable angles, ensure to mix product with molasses homogeneously as bringing product to molasses mixer's gate. Molasses is added in an appropriate rate according to product amount that goes through in mixer. While Single shaft molasses mixers could take 6-7% molasses, this rate increases up to 9-10% inFeedtech Double Shaft Molasses Mixers. Remaining time of product in mixer is defined by rotation speed, angles of paddles and length of mixer.

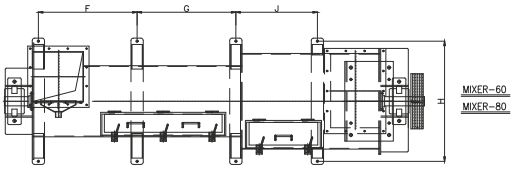
Paddle on gate is placed in opposite direction so that it mixes and prevents the risk of product aggregation.

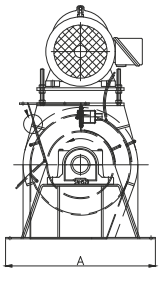












MOLASSES MIXER

Type	Motor Power (kW)	Size									Capacity (t/h)	Weight incl. motor (kg)
		A	B	C	D	E	F	G	H	J		
MIXER-10	11	1000	2320	.....	690	1737	.....	.....	.....	.....	5	500
MIXER-30	30	860	2547	1337	780	1680	1230	810	810	.....	20 - 35	1250
MIXER-60	45	1030	3456	1560	1010	2420	805	980	980	665	40-60	1500
MIXER-80	55	1030	3582	1580	1010	2710	855	980	980	860	60 - 80	2000

Ribbon Mixer

Ribbon mixers are produced to mix various types of raw materials homogeneously. Animal and/or vegetable oil may be mixed smoothly. The main feature of ribbon mixer is its intense and slow mixing effect. With ribbon mixers, different products with various volume densities and/or fragile structures are mixed with high uniformity.

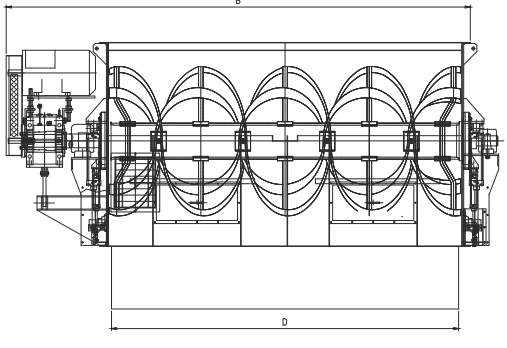
FEATURES

- Capacity: 300-12000 litres
- Line capacity: 5- 70 ton / hour
- Maximum 4 minutes mixing time
- Variation coefficient (CV): 3,5%
- U shaped frame
- Pneumatically operated sliding lid drainage system

OPTIONS

All machines can be customized.
The machines can be carried out in stainless steel and be delivered with ATEX 22 components, special internal coatings, a powerful drive and other options.

- Ribbon execution
- Stainless Steel
- Special internal coatings
- Atex 22 components
- Pneumatic bombdoors



RIBBON MIXER

Type	Motor Power (kW)	Size					Content (L)	Content (KG)	Weight incl. motor (kg)
		A	B	C	D	E			
LM-500	4	850	2130	1055	.....	.....	500	250	1200
LM-1000	5.5 - 9.2	1000	2741	1225	.....	.....	1000	500	1700
LM-2000	7.5	1000	4146	1370	2810	465	2000	1000	2350
LM-4000	22	1280	4797	1683	3350	385	4000	2000	3900
LM-6000	37	1600	4853	2010	3420	617	6000	3000	5600
LM-8000	45	1960	5150	2010	.....	.....	8000	4000	8800
LM- 10000	45	1960	6050	2150	4500	532	10000	5000	10400
LM- 12000	55	.....	.....	.....	.....	.....	12000	6000	12000

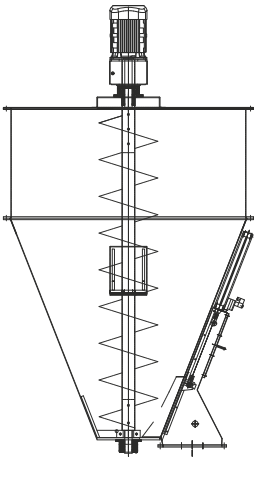
Vertical Mixer

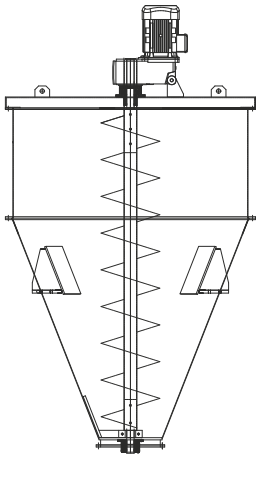
Vertical mixers are used to mix different raw materials or powdered finished products which are difficult to transport, such as animal meal, fish meal etc.

These mixers are used
- Upstream of hammer mill installations
- Upstream of pelleting and extruder lines

Vertical pre-mixers are used in the:
- Animal feed industry
- Pet food industry
- Rendering plants
- Sugar factories (beet pulp)
- Organic fertiliser
- Chemical industry

OPTIONS
- Normal or stainless steel
- Outlet in base equipped with pneumatic slide
- Heavy-duty, vertical mixing shaft bearing
- Driven by direct-coupled motor reducer or V-belt transmission





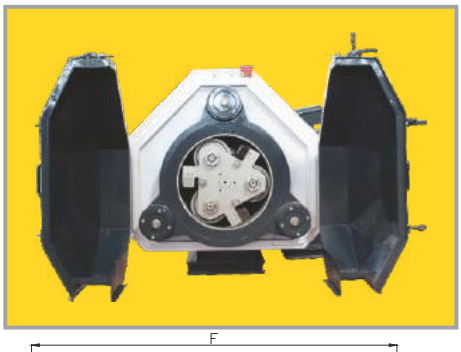
VERTICAL MIXER

Type	Valume (Lt)	Diameter	Trough thickness	Cover thickness	Output (kW)
VM500	500	1400	4	2	2,2
VM1000	1000	1400	4	2	4
VM2000	2000	1500	4	2	5,5
VM3000	3000	1500	4	2	7,5
VM4000	4000	1500	4	2	7,5
VM6000	6000	2000	4	2	11
VM8000	8000	2000	4	2	15
VM10.000	10.000	2000	4	2	18,5
VM12.000	12.000	2000	4	2	22

Feed Compactor

To procure extremely hard pellets, Feedtech manufactures low energy consuming Feed Compactor. Hard pellets production consumes a lot of energy, therefore firms seek more efficient and economic compacting methods. Feed Compactor answers to that need with its unique concept. Thanks to the feedback we receive from our customers, we know that it consumes less energy than an expander. Operating Principal Steam and the liquids are transferred into a double walled housing and the mixture is compacted hydrolically in the compacting chamber. Paddles with adjustable height and pitch guarantee a homogenous mixture and a hygenic process.

The mixture is forced into the compacting chamber, through three rotating rollers, where it is pressed in two conic compacting chamers. Three hydrolic cylinders accurately control the adjustable distance (3-45 mm) between the compacting chambers, which combined with a motor power of 250 kW. And it ensures optimum absorption of steam and liquids, higher pelleting capacity and excellent pellet quality.

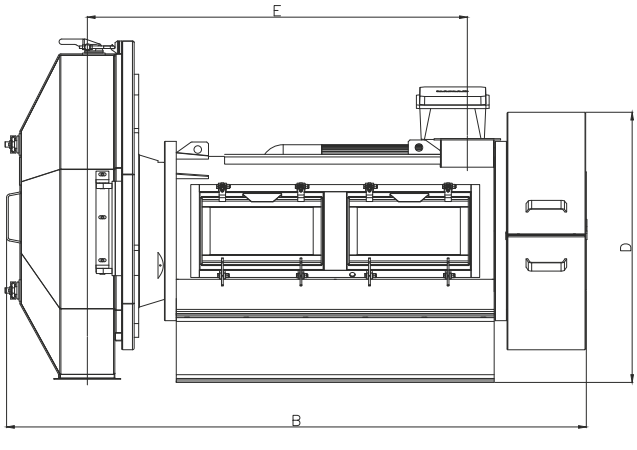


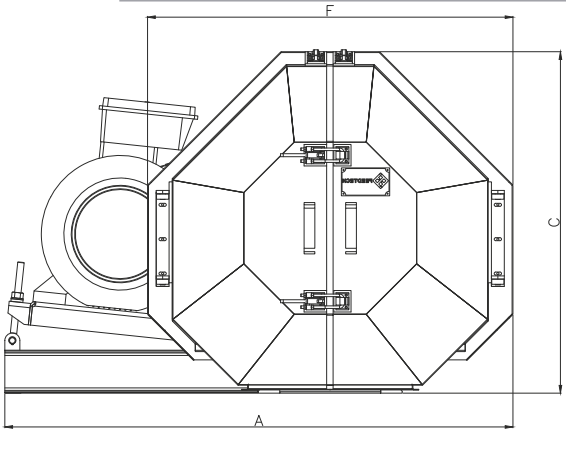
FEATURES

- Double walled housing, hatches and main shaft made of stainless steel
- 220 mm. diameter main shaft
- Size-adjustable paddles with adjustable height and pitch
- Main shaft a speed sensor, 235 cycle/minute
- Compacting chamber with three rotating roller-head, on stationery an done adjustable friction ring
- Three hydrolic cylinders with accurate read-out system
- Hydrolic unit
- Main shafts is powered by electric motor
- Transmission via V belts
- Shear pin protection against overload
- Large control hatches and doors with safety switches
- PT100 heat sensor in mixing chamber and on front bearing
- 1x3'' steam inlet and 2x11/2'' liquid inlets

ADVANTAGES

- Improved pellet quality
- Increased capacity
- Extreme flexibility when choosing materials
- Optimum absorption of steam and liquids
- Temperature up to 110^{0}C
- Up to %10 increase in liquid dosage
- Homogenous mixing and distribution of materials
- Hygenic process, easy to clean
- Low maintenance cost due to minimum wear
- Easy to integrate with basic operating and current automation systems
- Compared to double pelleting or explanding, less kW h/t



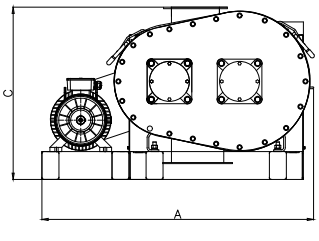


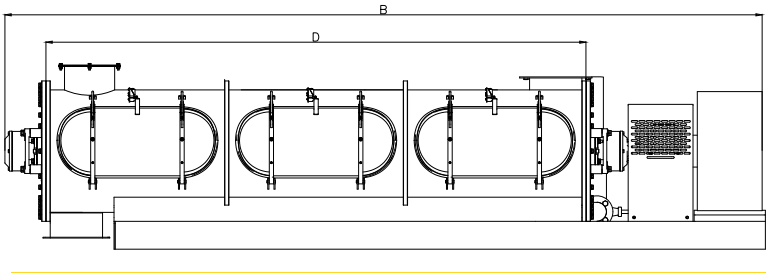
FEED COMPACTOR

Type	Motor Power (kW)	Size						Capacity (t/h)	Weight incl. motor (kg)
		A	B	C	D	E	F		
500x1500	132	.....	.....	.....	.....	.....	.....	12	4500
700x1500	250	2366	2699	1590	1258	1769	1701	25	6000

DDC Conditioner

The different dimension conditioner tempers semi-product by releasing steam. In addition to the conditioner, extra liquids such as molasses, enzymes can be added. It provides optimum mixing with its different housing sizes, shaft speeds, steam and heat additions. Waiting periods can be altered with adjustable paddle angles. Under heat, starch of the product can be jelatinised. Specifically designed reducer synchronises rotor spins at different speeds.



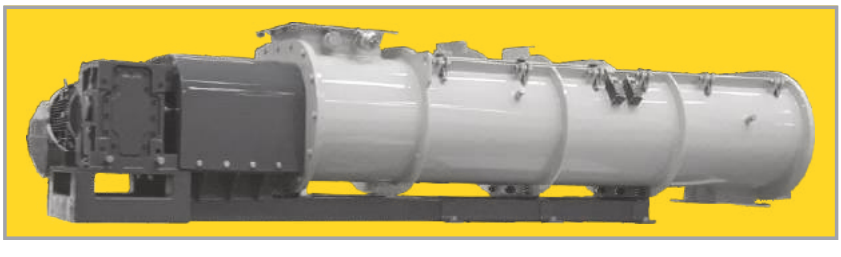


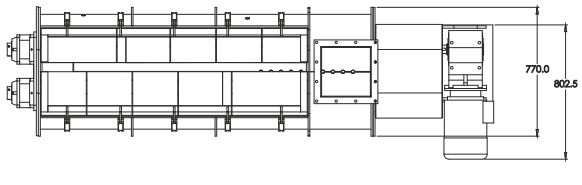
FEATURES

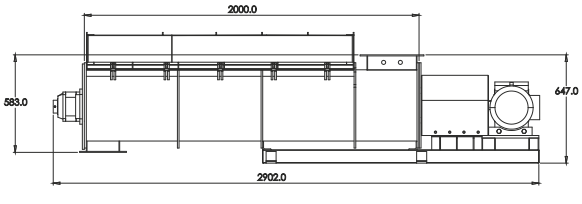
- The housing made of AISI 304 stainless steel
- Paddles are connected with a bolt, and easily mounted and adjusted
- Large maintenance hatches on the housing ensures a full access
- Large volume
- Large control hatches
- Easy to clean
- Product remains in the conditioner for 120-150 seconds
- Proper time, heat and humidity at optimum level.
- Made of rotor 4140 material
- Parts contacting the product are stainless steel
- Optional liquid inlet connection
- Paddles 304 CrNI
- Belt-Pulley-Reducer mechanism

DDC CONDITIONER

Type	Motor Power (kW)	Size				Capacity (T/H)	Weight (kg)
		A	B	C	D		
FDCC-28	15	1190	2795	740	1760	7-12	360x480x1760
FDCC-33	18,5	1330	3575	810	2540	9-18	430x570x2540
FDCC-39	22	1540	4585	980	3320	10-25	510x680x3320
FDCC-45	30	1710	5365	1100	4100	15-35	580x780x4100



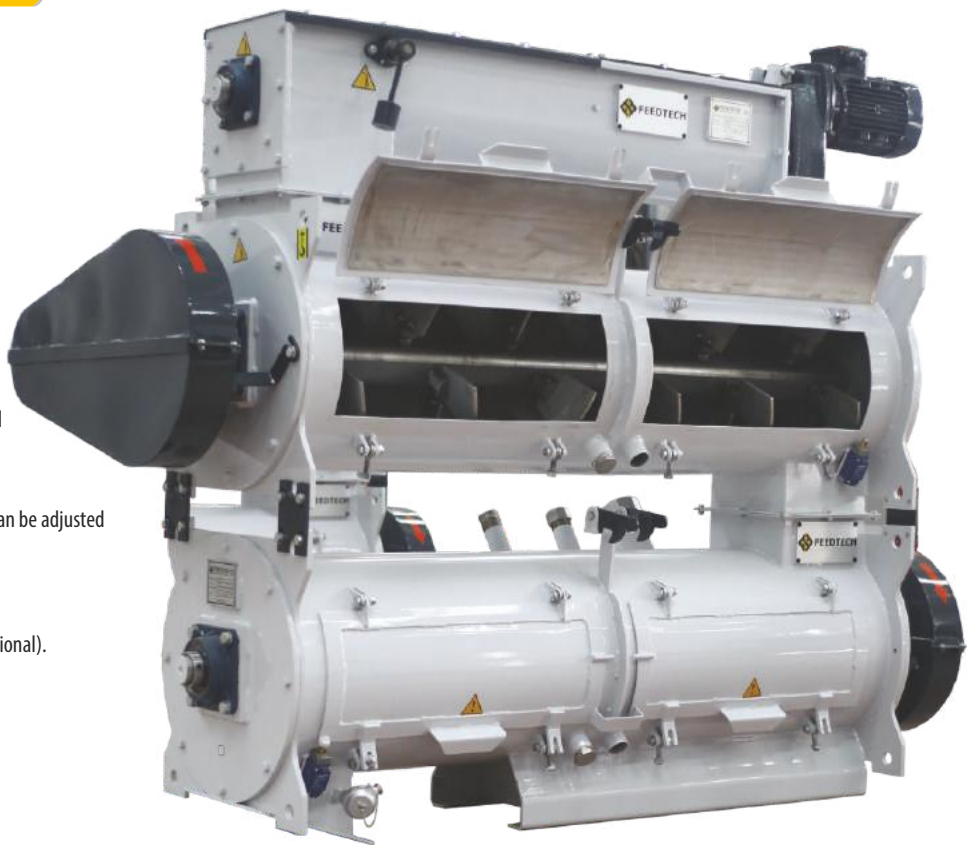

770.0
802.5


2000.0
583.0
647.0
2902.0

Conditioner

Stainless steel conditioner mixer has large paddles with adjustable height and angle option, that guarantees homogenous mixing and a hygenic process.

This low-maintenance, robust machine can be combined with a feed helezon and steam set, thus supporting to achieve optimum absorption of the steam and the liquid.

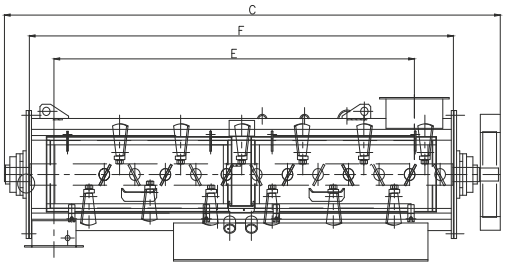


FEATURES

- All parts contacting the product are made of stainless steel
- 2 conditioners placed on top of each other.
  Each mixer housing in AISI 304,
  base plate construction in heavy duty steel.
- Height, angle and distance between mixer shaft paddles can be adjusted
- Integrated end scrapers
- Mixer shaft approximately 300 cycles/minute
- Sealed shaft bearings outside of the housing
- V belt over transmission
- Electric heat tracing system, insulated with rock-wool (optional).
- Large inspection doors with safety switch
- Each mixer shaft directly driven by gear motor.
  Suitable for frequency control
  (Frequency converters not included)
- Stuffing box sealings on mixer shafts
- Built-in scrapers at endplates
- Large control hatches with safety key
- PT100 heat sensor
- 1x3" steam inlet and 2x1 ´' liquid inlet

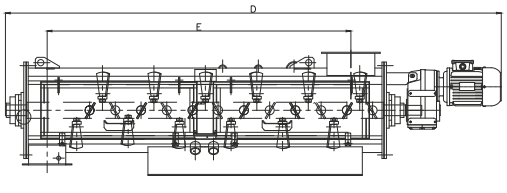
ADVANTAGES

- A doubling of the retention time of the product inside the conditioner
- in comparison with a single conditioner
- Homogeneous mixing and hygienic process
- Optimum absorption of steam and liquids
- Robust construction of the housing
- Easy to clean
- Longer maintenance intervals
- Simple design



CONDITIONER (V-belt driven t/h)

Type	Motor Power (kW)	Size					Capacity (t/h)
		A	B	C	D	E	
450 x 1700	7.5	1000	690	2020	725	1437	12
450 x 2000	11	1000	690	2320	720	1737	15
500 x 2500	15	1097	715	2844	802	2191	20
500 x 3000	18.5	1062	715	3016	767	2691	25
700 x 3000	18.5	1130	980	3390	875	2670	30



CONDITIONER (Direct Drive Capacity t/h)

Type	Motor Power (kW)	Size					Capacity (t/h)
		A	B	C	D	E	
450x1700	9,2	605	690	560	2620	1437	12
450 x 2000	9,2	605	690	560	2920	1737	15
500 x 2500	15	635	715	600	3565	2191	20
500 x 3000	15	635	715	600	4065	2691	25
700 x 3000	18,5	870	980	800	4190	2670	30

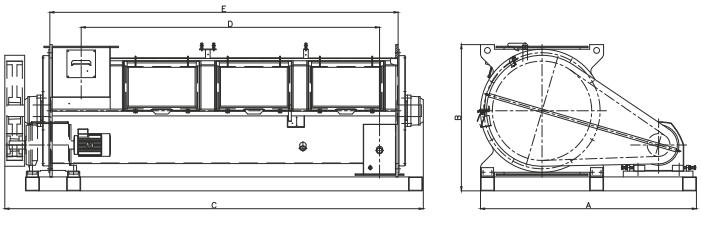
RTB Hygenizer

It is a patented solution to thermal treatment of powder feed for hygenic purposes. Against the salmonella threats in the market, RTB Hygenizer is a safe solution to use. Hygenizer is designed according to - first in first out principal. Before pelleting, the hygenizer neutralises the unwanted microorganisms in the feed. It maximises pellet quality and prolongs the lives of the die and rolls. The housing is made of stainless steel.

Also it is wrapped with long life heat cables which keeps the product warm for a long period of time. Balanced heat diffusion across the housing provides hygene. The product can go under thermal treatment for a long time (2.5-4 minutes)

FEATURES

- All components that come into contact with the product are from AISI 304 and stainless steel
- Single large sheets on the thick shaft placed with growing pitches
- Belt-driven by gear motor, suitable for frequency control. Frequency converter not included
- Timing belt transmission
- Stuffing box sealings on shaft
- Solid shaft with large flight and inclined pitch
- Power transfer via trigger belt
- Large hatches with safety sensor on the housing
- Insulated with rock-wool
- PT 100 heat sensor
- Electric heating system with adjustable thermostat 30-110 °C



RTB HYGENIZER

Type	Motor Power (kW)	Size					Capacity (t/h)*
		A	B	C	D	E	
700x3000	4	1425	1040	3550	2620	3000	6
900x3000	5,5	1860	1260	3700	2570	3000	11
900x4000	5,5	1860	1260	4650	3570	4000	14
900x4500	5,5	1860	1260	5150	4070	4500	16
900x5660	7,5	1860	1260	6300	5230	5660	20

(*) Retention time of 240 seconds

Pellet Press

Feed needs to get in pellet form not to go off its homogeneity while packaging, lifting and distributing to mangers. Feedtech has designed high efficient pellet presses to pellet various goods. The partially patented innovations offer a unique price/performance ratio. A technological concept ensures distribution of the enormous mechanical forces on the heavy bearings of the solid main shaft and intermediate shafts.

The stepped transmission via V-belts and timing belts permit the application of higher motor powers. Combined with the refined transmission, the robust frame guarantees a stable and vibration-free pellet mill during production.

FEATURES

- Safety switches on main lid and side protections
- Two stage power transfer with V-belt and trigger belt
- Sensory tracking on rollers
- No cable needed in pelleting chambers with wifi signalling
- Calibrating rollers at the optimum level to avoid compression during production
- Chance for adjusting roll range as press runs
- Hydraulic unit
- Analog measurement system
- Safety pin in roller calibration shaft
- Sliding suspension system to lift dies and rollers
- Adjustable die speed, 3.5-8 m/seconds
- Speed sensor
- Conic die holder and iron casting ring
- 2 or 3 roller system
- Eccentric roller shafts
- 2-motor drive system
- Manual or automated roller adjusting
- Central lubricating system
- Stainless steel double walled lid, powder plate and bypass lid
- Robust main shaft rotating on the bearings
- Operates quietly and vibrate-free with two-stage power transfer

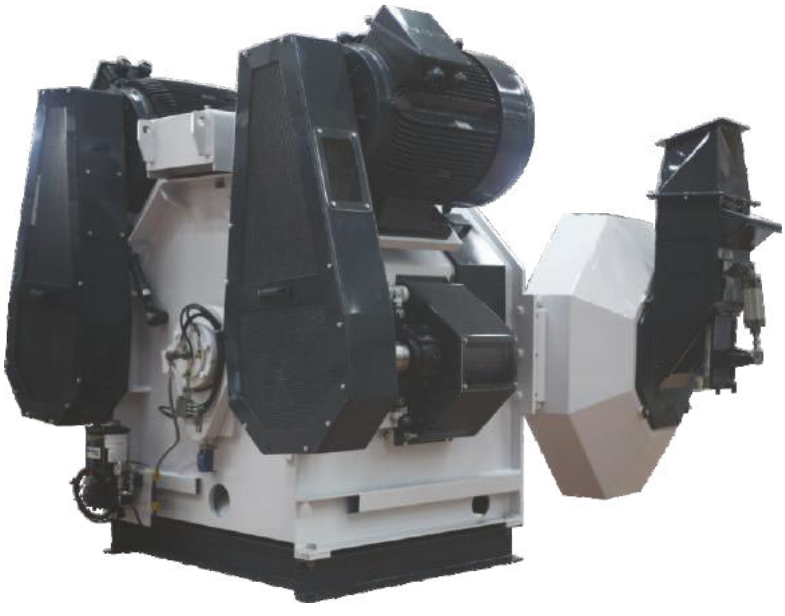
ADVANTAGES

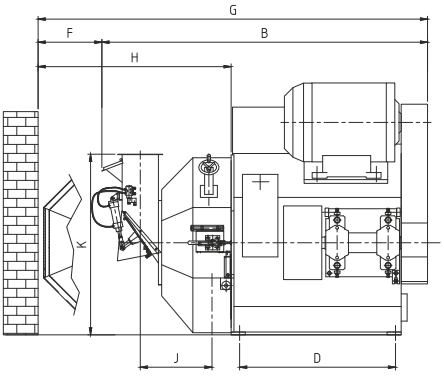
- Very stable, vibration-free and near-silent pellet mill
- Large die surface area and roller diameter
- Large motor powers
- Variable die speed
- Longer lifetime of die and rollers
- Conical die fitting
- Central greasing system
- Longer lifetime of main shaft bearings
- Integrated pneumatic quick-dump chute
- Cutting knife, fixed on press frame
- Integrated hoist facility
- Minimal maintenance costs
- Easy to clean
- Simple design
- Central electrical connection box

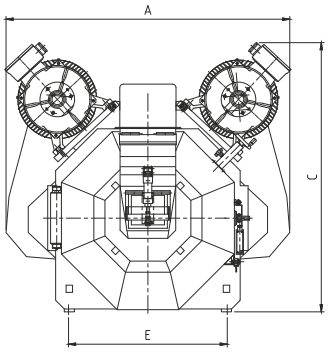
OPTIONS

Dependent on the type of the Pellet Mill several options are available.

- Remote roller adjustment (ARA)
  Increases the efficiency and simplifies the adjustment of the rollers during production. No critical components in pellet chamber.
- Quick die change system (QDC)
  Improves efficiency by shortening die replacement time to approx. 15 min.
- Roller Traction Control (RTC)
  Optimum non-slip adjustment of rollers during production. Extends the lifetime of dies and roller shells and increases the production efficiency.

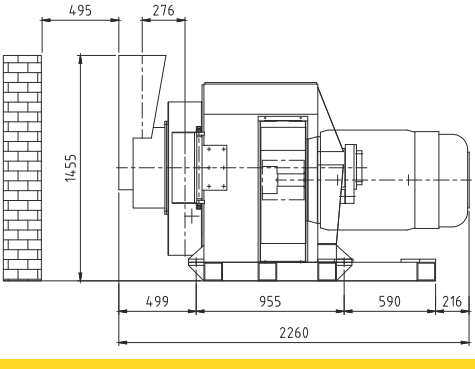


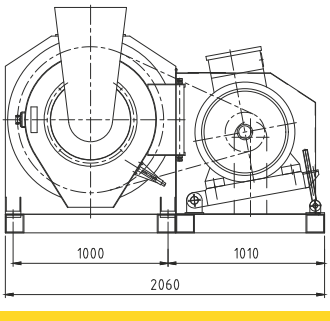




PELLET PRESS

Type	Motor Power (kW)	Size										Number of Rollers	Diameter Rollers (mm)	Die Dimensions			Weight incl. Motor (KG)
		A	B	C	D	E	F	G	H	J	K			Internal (mm)	Width (mm)	Area (cm^2)	
580x146	2x75	1980	2035	1595	1000	1120	450	2485	1260	423	1275	2/3	265	580	146	2658	5500
650 x 175	2x90	1900	2200	1750	1100	1120	450	2650	1260	488	1275	2	298	650	175	3571	6000
700 x 190	2x90(110)	2000	2300	1900	1100	1120	450	2750	1360	506	1275	2	315	700	190	4179	6250
850x210	2x 132 (160)	2530	2540	2270	1180	1470	550	3100	1510	551	1680	2/3	390	850	210	5605	9000
900 x 228	2x 160 (132)	2530	2560	2270	1180	1470	550	3140	1525	591	1680	2/3	408	900	228	6433	9500
900 x 275	2x200 (160)	2530	2590	2270	1180	1470	550	3160	1575	636	1680	2/3	408	900	275	7771	10000

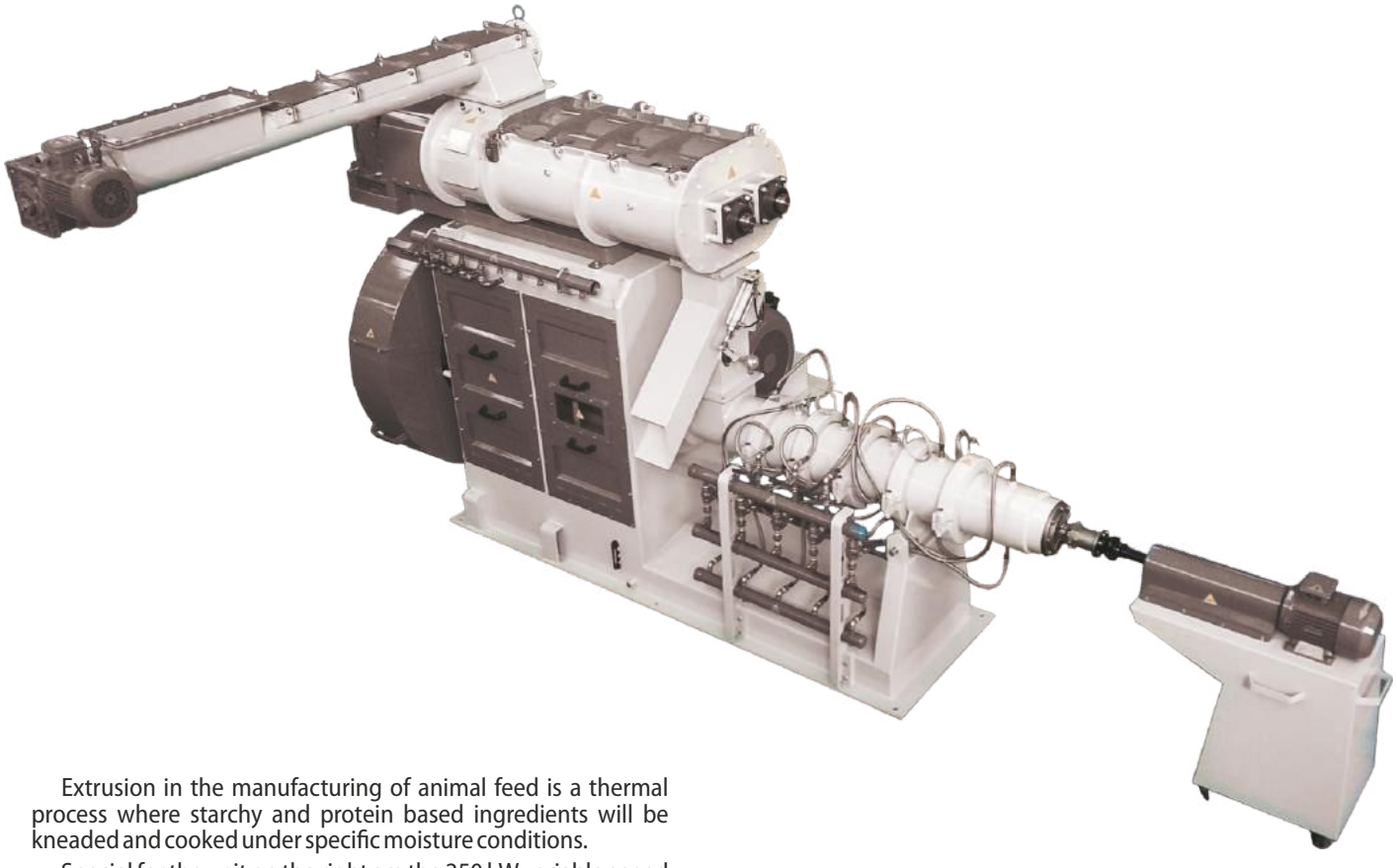




PELLET PRESS

Type	Motor Power (kW)	Size										Number of Rollers	Diameter Rollers (mm)	Die Dimensions			Weight incl. Motor (KG)
		A	B	C	D	E	F	G	H	J	K			Internal (mm)	Width (mm)	Area (cm^2)	
450 x 106	1 x 110	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2/3	204	450	106	1500	3000

Extruder



Extrusion in the manufacturing of animal feed is a thermal process where starchy and protein based ingredients will be kneaded and cooked under specific moisture conditions.

Special for the unit on the right are the 250 kW variable speed DC motor and Tandem conditioners. The variable speed constant torque drive enables very precise power inputs. There is no need for modification of the internal parts of the extruder for different products, saving downtime. The extrusion cylinder has a straight bore in order to obtain the maximum open die area for small diameter pellet

EXTRUDERS

- Minimise the effect of any anti nutritional factors
- Fulfill specific process requirements (ANF)
- Maximise nutritional value of feed

FEATURES EXTRUDERS

- Rigid construction / continuous operation
- Minimum space requirements
- V-belt or direct drive
- High quality product
- Low cost of wear parts
- Easy cleaning
- Easy to control
- Less downtime for maintenance

SCOPE

- Pet food
- Aqua feed
- Animal feed
- Oil seed/cereal processing
- Densifying
- Pre conditioning
- Various customized applications

Feedtech coolers have been designed for cooling steam conditioned feeds.

It operates by drawing air through two fluidized product beds. The continuous product flow into the cooler is converted to a batch flow on the top deck.

Discharging from the two decks is timer driven and powered by hydraulic cylinders. Discharging starts at the lower deck and sequentially moves to the top deck. Retention time is determined by setting the batch time.

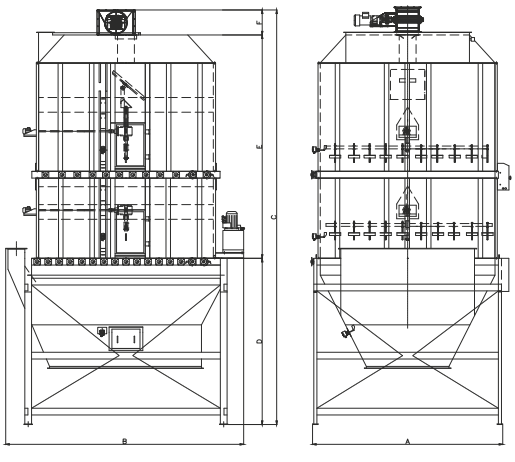
When changing the product recipe, it is usually necessary to wait until the cooler is completely empty. This problem is solved with the double deck cooler. The new product can be placed on the extra cooling deck while the former piece is cooling down on the lower deck. This extra deck can be opened as the lower deck has been emptied and has the same type of hinged removal system. The operating principal is the same. The cleanest as no product remains once it is fully discharged.

APPLICATION

- Cooling of feed pellets, wood pellets, pulp pellets, expandate, full fat soya, etc.

ADVANTAGES

- Perfect cooling of the product
- Bevelled corners in the hopper to prevent product to pile up
- Can easily be converted to cool both meal and pellets
- Enables fast change-over between different production runs
- No need to wait for the cooler to be empty before a new product can be introduced into the cooler



DOUBLE DECK COOLERS

Type	Cooling Area (m^2)	Size						Weight (Kg)
		A	B	C	D	E	F	
VK14x14TM	2	1680	2535	6481	2159	3976	346	2650
VK14x19TM	2,7	1680	3035	6681	2359	3976	346	3000
VK19x19TM	3,6	2180	3035	6681	2359	3976	346	3200
VK19x24TM	4,5	2180	3535	6881	2559	3976	346	3750
VK24x24TM	5,7	2680	3535	6881	2559	3976	346	4350
VK24x28TM	6,8	2680	3935	7081	2759	3976	346	4900
VK28x28TM	8,2	3080	3935	7081	2759	3976	445	5200
VK28x36TM	10,4	3080	4735	7380	2959	3976	445	6000
VK32x32TM	10,6	3480	4335	7380	2959	3976	445	6100

Single Deck Coolers

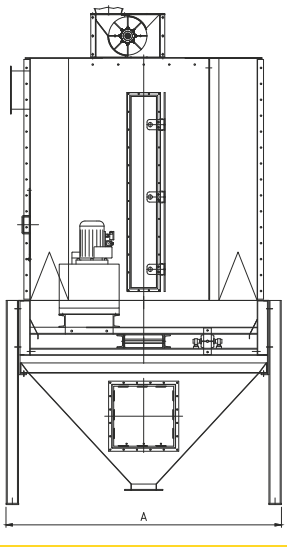
FEATURES

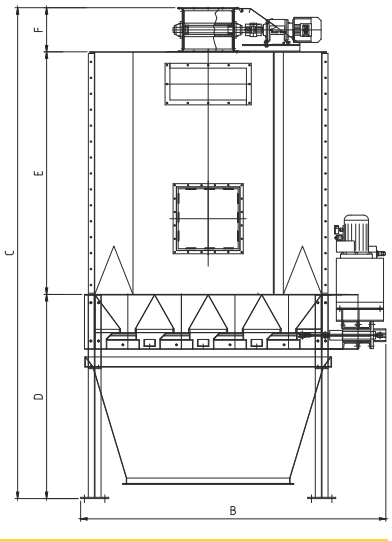
The cooler operates by drawing air through the product layers. New pellets are constantly fed through the inlet and discharged via a hinged system. This prevents bridging during a gradual discharge. Discharge system is monitored by level and heat sensors and it is hydrolically driven.

The opening and closing positions for the discharge system can be adjusted manually or remotely. (PLC) The discharge system in the cooler is suitable for all pellet types and also the cleanest as no product remains once it is fully discharged.

ADVANTAGES

- Minimise the effect of any anti nutritional factors
- Fulfill specific process requirements (ANF)
- Maximise nutritional value of feed
- Perfect cooling of the product
- Smooth discharging of cooled product into the hopper
- Total emptying at the end of a run
- Bevelled corners in the hopper to prevent product or fines to pile up





SINGLE DECK COOLERS

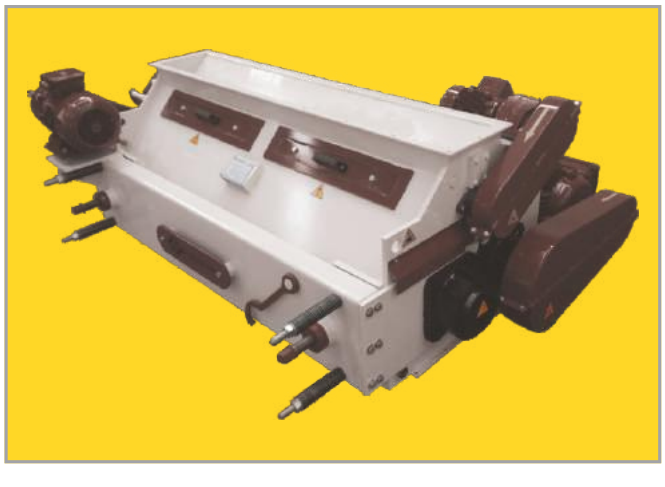
Type	Cooling Area (m^2)	Capacity * (t/h)	Size						Weight (Kg)
			A	B	C	D	E	F	
VK14x14RW	2	4	1740	1973	3193	944	1903	346	1200
VK14x1 9RW	2,7	6	1740	2393	3850	1601	1903	346	1450
VK19x19RW	3,6	8	2160	2393	3850	1601	1903	346	1700
VK19x24RW	4,5	12	2160	2813	3930	1681	1903	346	2250
VK24x24RW	5,7	16	2580	2813	3930	1681	1903	346	2850
VK24x28RW	6,8	20	2580	3233	4225	1877	1903	346	3400
VK28x28RW	8,2	25	3000	3233	4225	1877	1903	445	3700
VK28x36RW	10,4	30	3000	4073	4815	2467	1903	445	4500
VK32x32RW	10,6	30	3420	3653	4520	2172	1903	445	4600

* Capacity applies to 4 mm pellet diameter

Feedtech crumbling machines crumble feed in pellet form with minimum powdering. The crumbler in Feedtech has axial crumbling rollers, out of solid steel, integrated supply which feeds the crumbler equally. Feedtech crumbler is based on two large, independently driven rollers. That ensures an optimum result of minimum fines with maximum crumble.

Granul's particule size is adjusted by changing the distance between rolls Firm, low maintenance cost and easy to clean machines are produced in different sizes and capacities on demand. There is a springed roll protection system against impure materials. Large crumbling rollers with axial and radial grooves rotate at different slow paces and directions, thus crush the pellets into crumbs without powdering.

An integrated control valve ensures an even flow to an axially riffled proportioning roller, manufactured from solid steel. Using accurate remote measurement, the large 300 mm crumble rollers guarantee an optimum result. Automatic roller adjustment increases the efficiency and simplifies the adjustment of the roller during production.

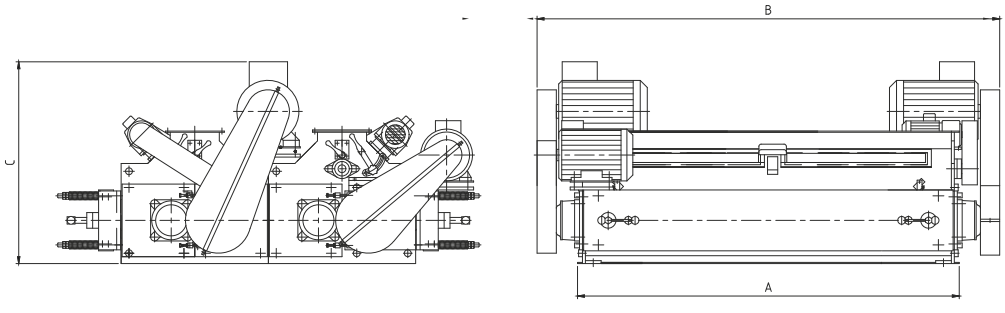


FEATURES

- Manually or electro-pneaumatically operated by-pass valve
- Manual or automatic feed valve
- Solid steel feed with axial grooves
- Housing manufactured from mild steel
- Two solid 300 mm axially and radially riffled crumble rollers from chrome steel of hartguss
- Steel or chilled cast iron
- Separately driven rollers at different paces
- Transmission via V belts
- Accurate crumble size setting
- Manual or automatic roller setting
- Analogue read-outs accurate to 0,1 mm
- Protected against impure materials by disk springs
- Leak-proof sealed shaft bearings outside the housing
- Control hatch with safety key
- Level indication included

ADVANTAGES:

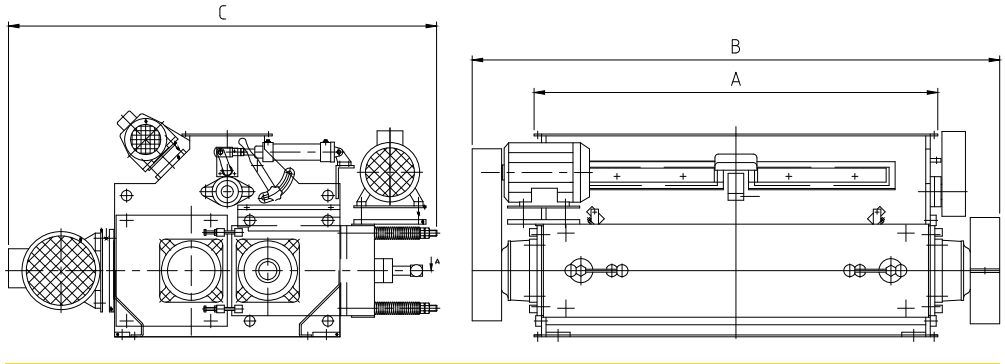
- Higher Performance
- Hygienic Design
- Lower Energy Consumption
- More capacity with same energy level
- Frequency controlled dual rotation feeder (by-pass function)
- Disk springs
- Rollers are exchangeable from front and the side
- 50% more revision options of the rollers
- Easy maintenance access



CRUMBLER

Type	Capacity (t/h)*	Size			Motor Power (kW)			Diameter of crumble rollers (mm)	Length of crumble rollers (mm)	Weight (kg)
		A	B	C	Radially Riffled	Axially riffled	Feeding			
HBT-KRU4	23-25	1344	1760	1000	4x(2)	7,5x(2)	0,37	250	1260	3300
HBT-KRU5	25-30	1584	2000	1000	4x(2)	11x(2)	0,37	250	1500	3800
HBT-KRU6	30-38	1824	2240	1000	7.5x(2)	15x(2)	0,37	250	1740	4400
HBT-KRU7	38-45	1944	2355	1028	7,5x(2)	18,5x(2)	0,37	250	1860	5000

*) Capacity applies to crumble rollers of 2.5mm distance and pellet rollers of 4-5 mm diameter



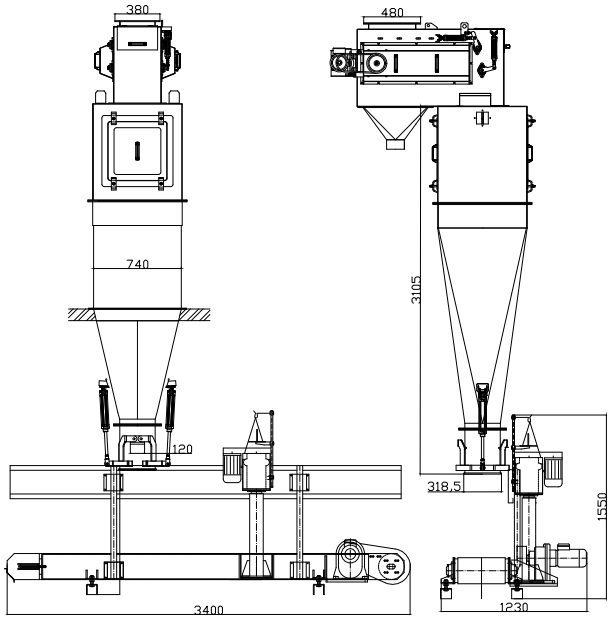
CRUMBLER

Type	Capacity (t/h)*	Size			Motor Power (kW)			Diameter of crumble rollers (mm)	Length of crumble rollers (mm)	Weight (kg)
		A	B	C	Radially Riffled	Axially riffled	Feeding			
HB-KRU1	4	624	1014	1375	1,5	2,2	0,37	250	540	850
HB-KRU2	4-7	864	1280	1375	2,2	3	0,37	250	780	1050
HB-KRU3	7-10	1104	1524	1525	2,2	4	0,37	250	1020	1350
HB-KRU4	10-13	1344	1760	1525	4	7,5	0,37	250	1260	1550
HB-KRU5	13-16	1584	2000	1525	4	11	0,37	250	1500	1800
HB-KRU6	16-20	1824	2240	1525	7,5	15	0,37	250	1740	2100
HB-KRU7	20-23	1944	2355	1560	7,5	18,5	0,37	250	1860	2500

*) Capacity applies to crumble rollers of 2.5mm distance and pellet rollers of 4-5 mm diameter

Bagging Scale

A bagging scale is a piece of equipment that weighs and dispenses a specific amount of dry bulk material (powder, pellet, granule, etc…) into an open mouth bag. Feedtech bagging scale enables feed to be packed in series at desired weight. Desired weight is obtained by sending feed regularly to the scale, which is hanged up to the weighing cells with a large surface band rotating on two drums. Suitable to desired weight, there are different formed bagging flaps.



BAGGING SCALE	
Types	Single Scaled Bagging Machine Double Scaled Bagging Machine
Capacity	13 - 24 tons per hour depending on the product to be bagged and required tolerance
Set value	Can be adjusted as 25 or 50 kg by operator
Weight Display	Current weight will be displayed on the operator termina
Tolerance	Lower and upper tolerances can be programmed individually. If the result of weighing is above or under the tolerance, the product not be bagged without the consent of an operator
Size of Bags	Minimum size suggested for high capacity bagging is 650 mm x 950 mm
Level Control	The material level in the upper hopper is continiously being controlled with level sensors

Raw Material Sifter

Feedtech raw material sifters ensure a reliable production process before and during processing.

Raw material sifters are designed to protect the production plant against damage caused by unnecessary items that can be found in the raw material.

Undesirable contamination such as sack fibres, lumps, paper shreds, knives, screws, stones etc. is being extracted so that a flawless production process is ensured.

Products not of the correct particle size can be extracted as well.

Material is fed to the inside of the drum. Good material passes the screen and is send further down the line, oversized material is transported by flight to the back of the machine and collected in the second outlet. A manually operated bypass valve with manganese steel replaceable waring plates is fitted inside the inlet. The bypass valve is bolted to its position, with optional sensors relaying the position to the control panel.

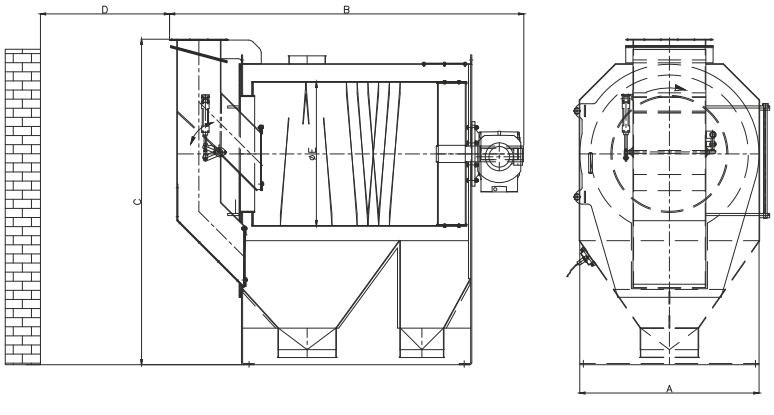
Material you dont want to be sifted is seperated via bypass system.

FEATURES

- Completely enclosed an equipped with a conncetion for dust aspiration
- The outlet is equipped with sight glass
- Level switch to detect product built up in the outlet
- Driven by a heavy shaft mounted geared motor flanged at the rear

ADVANTAGES

- Guaranteed process reliability
- Less contamination in form of sack fibres, lumps, paper shreds, knives, screws and bolts etc
- Safe quality
- Protection of the process machinery such as high speed or vacuum mixers
- Reduced risk of down times of production process



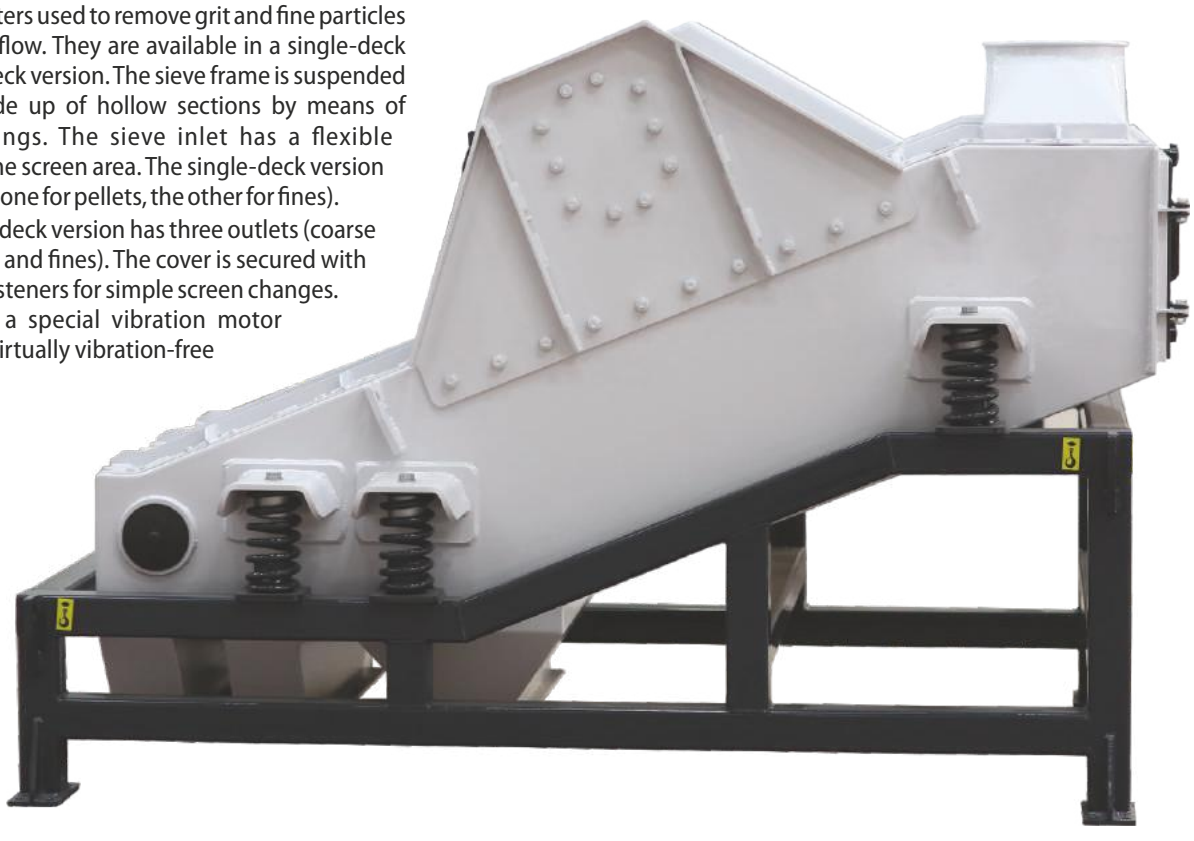
RAW MATERIAL SIFTER

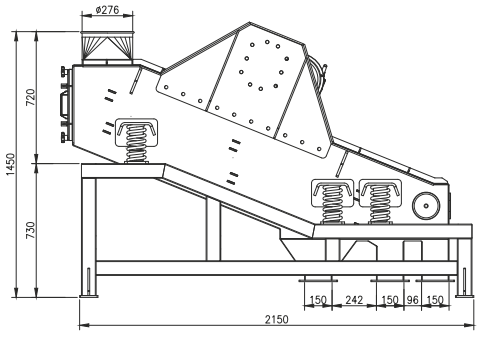
Type	Motor Power (kW)	Size					Capacity (m^3/h)	Weight incl. motor (kg)
		A	B	C	D	E		
600	2,2	800	1905	1550	550	600	100	450
1000	3	1250	2470	2270	900	1000	200	1550

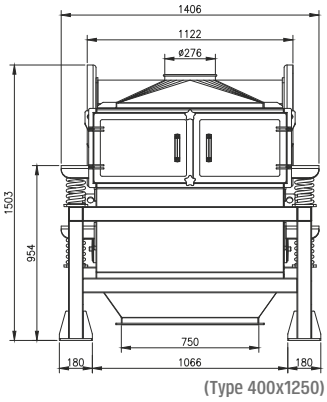
Vibrating Sifters

Vibrating sifters used to remove grit and fine particles from the pellet flow. They are available in a single-deck and a double-deck version. The sieve frame is suspended in a frame made up of hollow sections by means of laminated springs. The sieve inlet has a flexible connection to the screen area. The single-deck version has two outlets (one for pellets, the other for fines).

The double-deck version has three outlets (coarse material, pellets and fines). The cover is secured with quick-release fasteners for simple screen changes. It is driven by a special vibration motor which ensures virtually vibration-free operation.







(Type 400x1250)

VIBRATING SIFTERS

Type	Screen Surface (m^2)	Single Deck (t/h)	2 Decks (t/h)	3 Decks (t/h)
400x1250	0,5	up to 10	up to 10	up to 5
630x1600	1,0	up to 25	up to 25	up to 15
800x2000	1,6	up to 25	up to 25	up to 25

Rotary Sifter

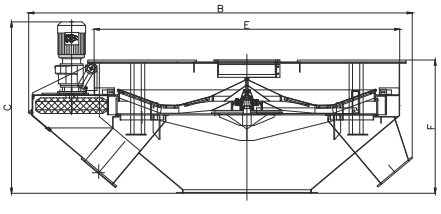
The two screen decks are specially designed for hammer mills, which grind on different sieve perforations, or in combination with a crumbler. In the sieve feed of the two screen decks is an electro-pneumatic operated valve which can rotate between the upper and lower screen. The process control is also provided with sensors for position feedback. An automatic cleaning with compressed air keeps the screen perforations clear of obstructions. As the product coming on the screen, rotating around its own axis, is dragged with centrifugal force on the screen, dust falls on lower unit.

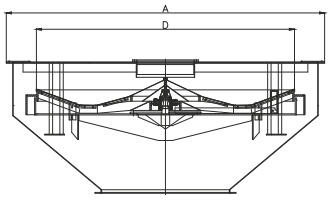
Feedtech Rotary Sifter is designed to fit various capacity and physical specifications. Easy-to-maintain, strong structure and almost no maintenance cost.

SUITABLE FOR
- Raw materials prior to grinding
- Pellets and crumbs
- Extrudates and expandates

FEATURES
- Compact design
- Vibration free operation
- Capacities from 20 to 180 tph
- Single screen deck
- Double screen deck for different product sizes
- Single drive
- Double drive for high capacities (contra rotation)
- Certified for ATEX zone 21/22
- Maximum pellet diameter is 12 mm.

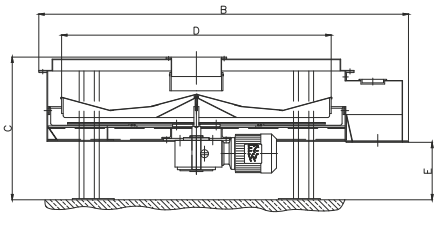
SPECIAL EXECUTION
- Central meal by-pass
- Lump separator
- Frequency converter / variable speed
- Pulse jet cleaning

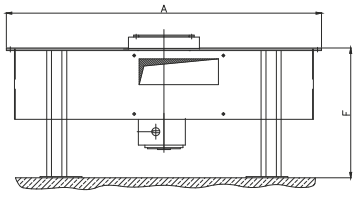




ROTARY SIFTER (ABOVE HAMMER MILL)

Type	Motor Power (kW)	Size						Single Deck	Capacity (t/h)
		A	B	C	D	E	F		
HCRYLOC-40	3	2245	2705	1209	1820	2155	940	1	40
HCRYLOC-60	4	2400	2953	1302	2020	2305	1055	1	60
HCRYLOC-80	1,5/3	2400	2953	1232	2020	2305	985	1	80

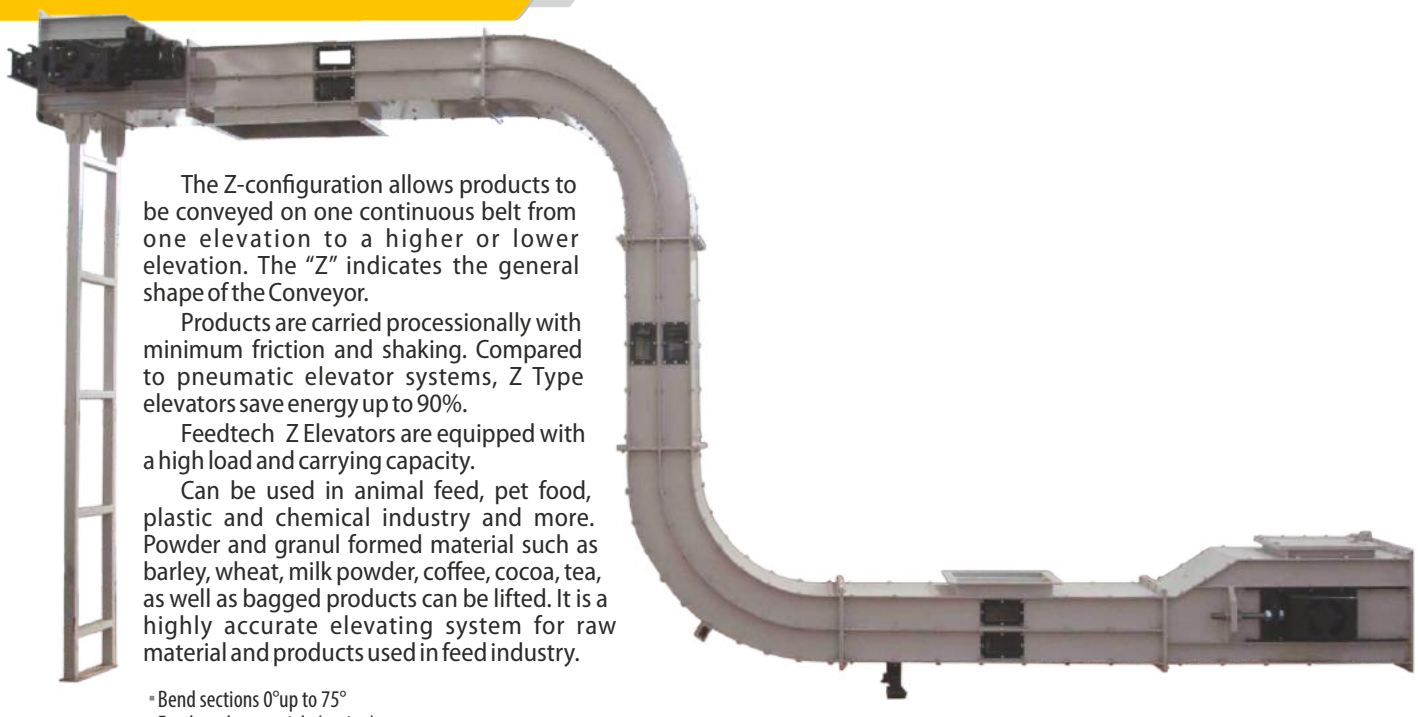




PELLET SIFTER

Type	Motor Power (kW)	Size						Single Deck	Capacity (t/h)
		A	B	C	D	E	F		
PCRYLOC-20	1.5	1590	1865	720	1360	290	655	1	20
PCRYLOC-20	1.5	1590	2319	925	1360	290	655	2	20
PCRYLOC-30	1.5	1830	2105	710	1600	190	710	1	30
PCRYLOC-50	2.2	1945	2569	1083	1520	288	814	1	50
PCRYLOC-50	2.2	2371	2569	1083	1520	288	814	2	50

Z Elevator



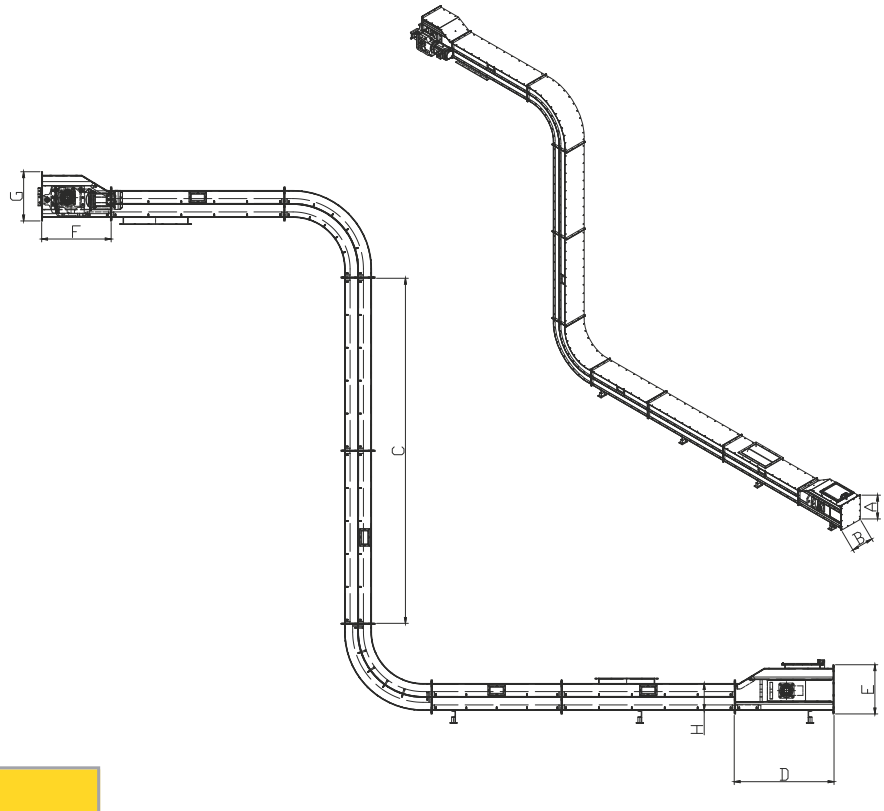
The Z-configuration allows products to be conveyed on one continuous belt from one elevation to a higher or lower elevation. The "Z" indicates the general shape of the Conveyor.

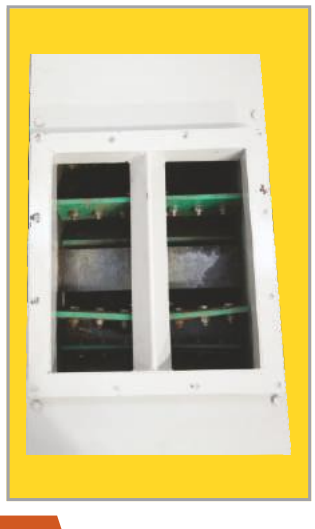
Products are carried processionally with minimum friction and shaking. Compared to pneumatic elevator systems, Z Type elevators save energy up to 90%.

Feedtech Z Elevators are equipped with a high load and carrying capacity.

Can be used in animal feed, pet food, plastic and chemical industry and more. Powder and granul formed material such as barley, wheat, milk powder, coffee, cocoa, tea, as well as bagged products can be lifted. It is a highly accurate elevating system for raw material and products used in feed industry.

- Bend sections 0°up to 75°
- Food grade materials (option)
- SS execution (option)
- Hinged hatched on top and bottem (option)





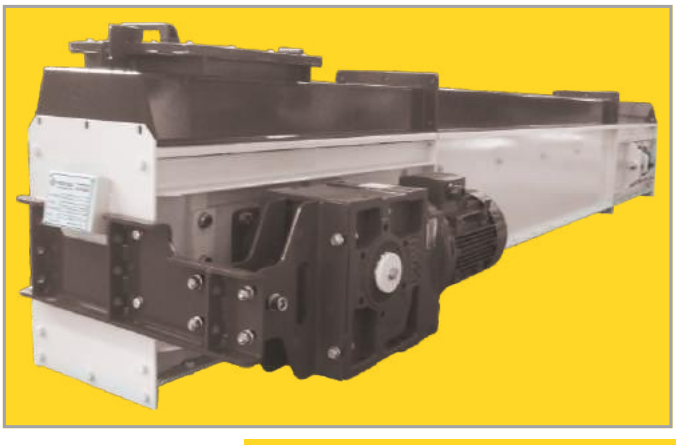
Z ELEVATOR

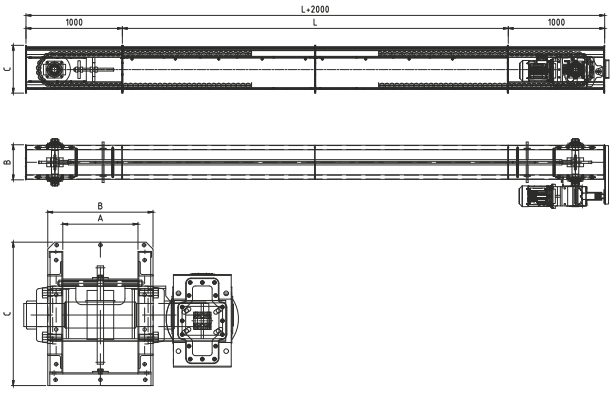
Type	Capacity (m^3)	Size							
		A	B	C	D	E	F	G	H
ZC2130	20	304	210	2000	1140	690	580	800	372
ZC2630	30	304	260	2000	1140	690	580	800	372
ZC3360	45	304	330	2000	1140	690	580	800	372
ZC4230	62	304	420	2000	1140	690	580	800	470
ZC4242	80	420	420	2000	1200	790	680	875	470
ZC5242	102	420	520	2000	1200	790	680	875	470
ZC6042	124	420	600	2000	1200	790	680	875	470
ZC6052	160	520	600	2000	1200	790	780	875	590
Zc8052	218	520	800	2000	1200	790	780	875	590

It is the most productive and reliable solution to transport maximum 15 mm sized granul, pulp goods and bulky materials vertically and horizontally. It is suitable for high capacity and long distance transports. Chain conveyor consists of a rectangular tank that houses the operating chain. Upon the chain, there are transporter wings. There can be several outlet connections in chain elevators. These connections are usually electrically or pneaumatically controlled through sliding hatches. (Product, bulky material used in feed and flour industry)

FEATURES

- Capacity: 60-325 m3/h - 30-162,5 t/h (d=0,5 ton/m3)
- Length: 4-50 meter
- Drive Gear Wheel: 8 gear 125-160 mm space
- Snub pulley: No gear wheel
- Tank Width: 210-520 mm
- Tank Height: 420-600 mm
- Drive Section: Mid sectioned, extra flow valve with proximity switch
- In sub and mid sections, 20x8-35x12 mm steel guide and polielitic wear band
- Optional spot filtered aspiration system, 2-piece gear for rapid change, observation window made of see-through plastic





CHAIN CONVEYOR

Type	Size			Capacity (m^3/h)				Chain width	Pitch circle	Number of teeth
	A	B	C	0,3m/s	0,4m/s	0,5m/s	0,6 m/s			
220x430	210	314	496	47	63	78	94	200	250	8
320x430	260	364	496	70	94	118	141	300	250	8
420x430	330	434	496	94	126	157	189	400	250	8
420x580	420	524	496	160	213	266	320	400	400	8
520x580	420	524	496	200	266	333	400	500	400	8

* Length (L) =adjustable

Screw Conveyor

Screw conveyors are designed to carry maximum 15 mm particle sized bulky materials horizontally and vertically.

Screw conveyors can be useful for multiple applications. The screw conveyors are used for dosing, extracting, feeding and conveying purposes. Use of high-quality components makes for a reliable and easily serviceable conveyor. A sturdy design ensures a long and troublefree service life. Feedtech conveyors are available in a wide range of capacities.

One of the advantages of a screw conveyor is the variety of products that can be moved with a screw. The following industries make use of a screw conveyor:

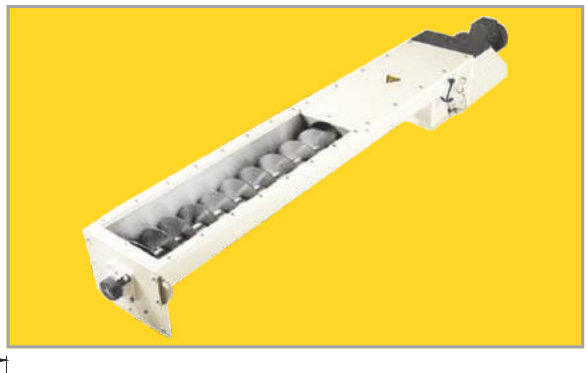
- Grain processing
- Aqua Feed
- Compound Feed
- Breweries
- Chemical industry
- Food industry

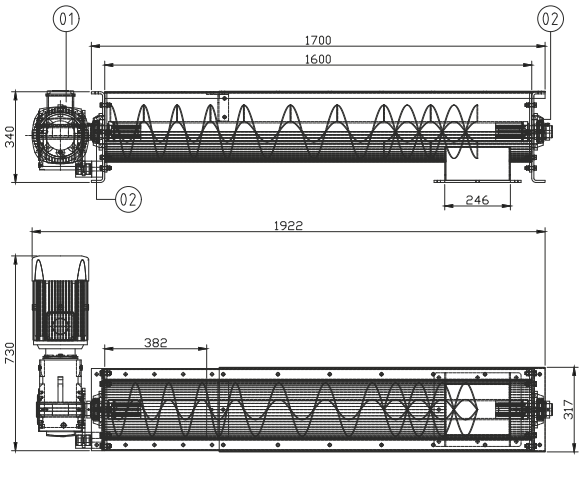
FEATURES

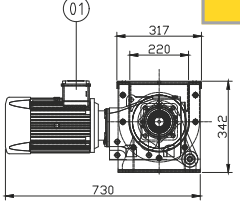
- S235 steel trough, tubular or U-shaped, fully enclosed design
- Primer and paint finish
- Geared drive units
- Intermediate bearings to prevent sagging of main shaft
- Product overflow detection is standard
- Bulky material used in feed and flour industry.
- Capacity: 2-300 m3/hour, 1-150 ton/hour (d=0,5 ton/m3)
- Length: 0,5-15 meters
- Screw ribbons: 150-500 mm diameter, 150-500 mm pitched
- Drive: 30-110 rpm, 0.75-15 kW

OPTIONAL

- Spot filtered aspiration system, extra flow valve with proximity switch
- Application: Grain processing industry, feed industry, dosing in feed industry
- Executed in AISI304
- Executed in galvanized S235 steel
- Variable pitch of the screw blade
- Intermediate outlets
- Speed sensor
- ATEX22 zoned drive-units
- Frequency controlled drive-units for dosing and feeder applications
- Shut-off valve for dosing applications to prevent afterflow
- Inclined installation up to 15°



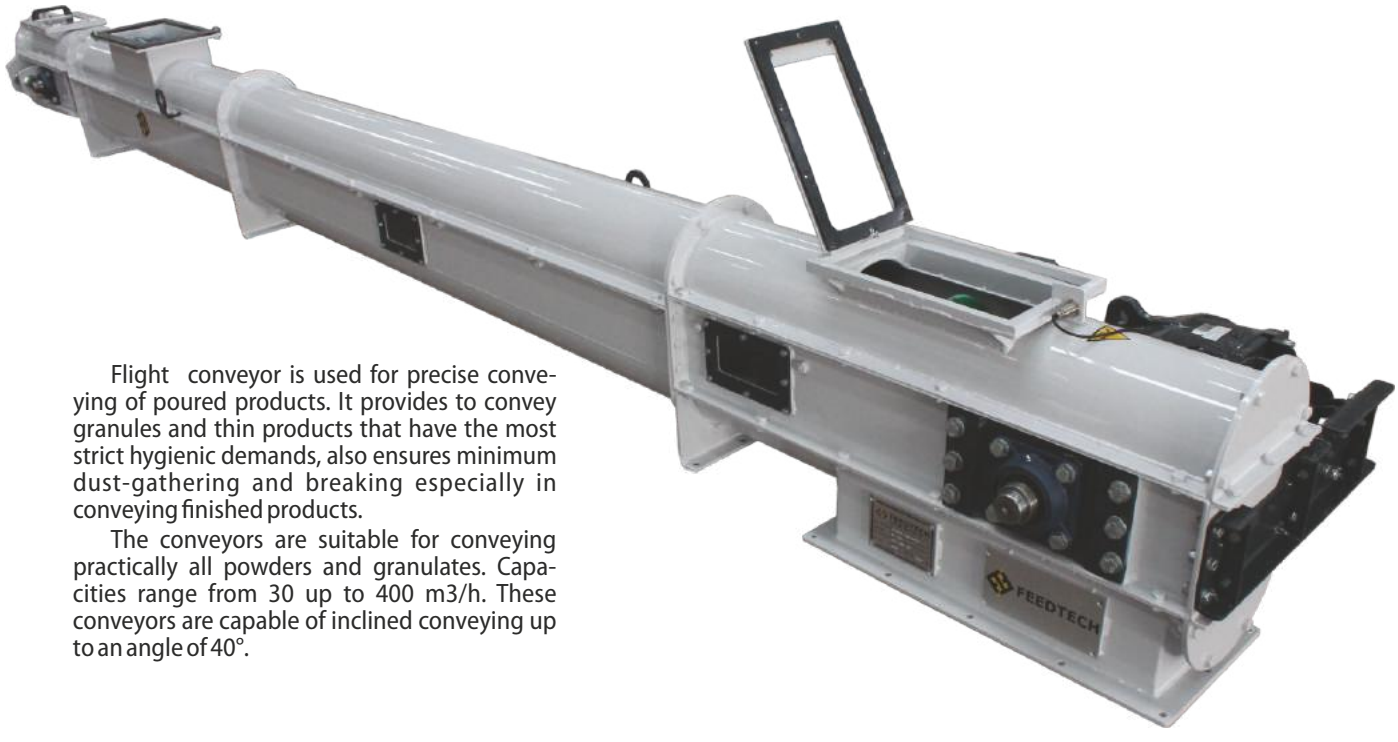




(Type 200)

SCREW CONVEYOR

Type	Density (m³/h)			RPM	Pitch (max)
	0,3	0,5	1		
200	10	17	34	90	200
250	18	30	59	80	250
300	22	37	74	70	250
350	31	52	104	60	300
400	34	56	113	50	300
450	45	75	150	45	350
500	55	92	184	40	400
750	108	180	360	30	500



Flight conveyor is used for precise conveying of poured products. It provides to convey granules and thin products that have the most strict hygienic demands, also ensures minimum dust-gathering and breaking especially in conveying finished products.

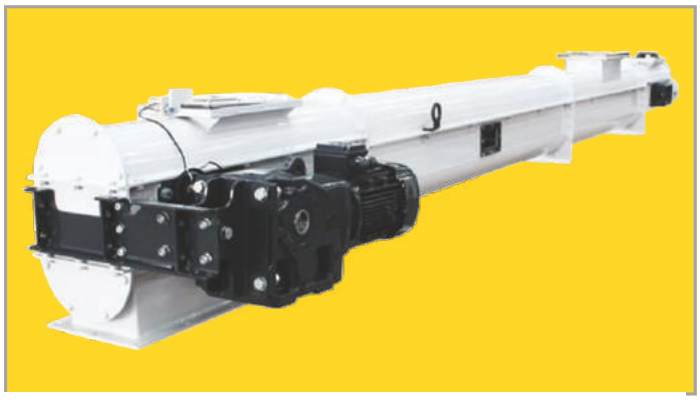
The conveyors are suitable for conveying practically all powders and granulates. Capacities range from 30 up to 400 m3/h. These conveyors are capable of inclined conveying up to an angle of 40°.

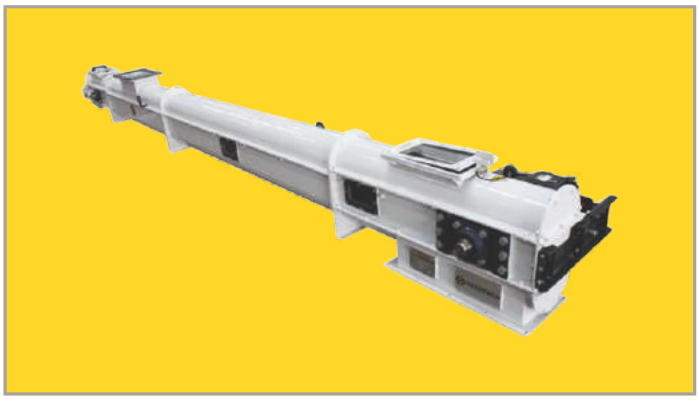
FEATURES

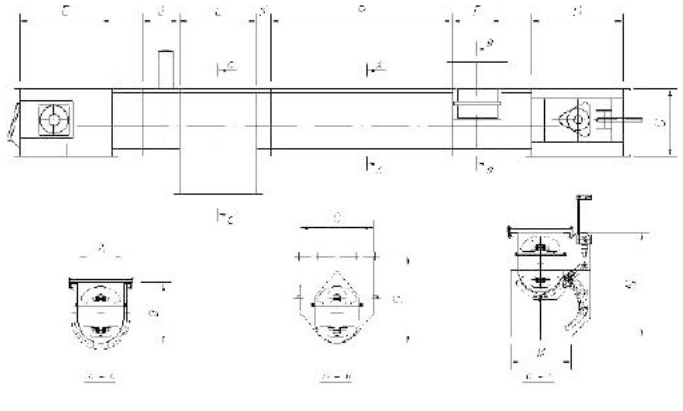
- S235 steel trough, U-shaped, fully enclosed design
- Primer and paint finish
- Geared drive units
- Flexible coupling
- Product overflow detection is standard
- Chain tensioner
- Guide strips for the flights
- HMPE flights

SPECIAL EXECUTIONS

- Executed in AISI304
- Executed in galvanized S235 steel
- Double the amount of flights
- Bombdoor outlets
- Speed sensor
- ATEX22 zoned drive-units
- Intermediate outlets
- Inclined installation up to 40°







FLIGHT CONVEYOR

Type	Capacity (m3/h)		
	0,52m/s	0,65m/s	0,76m/s
VM 200	26	35	40
VM 300	80	100	120
VM 400	141	176	211
VM 600	306	382	459

Bucket Elevator

It is the most productive solution to vertically transport granul, pulpy and bulky materials. Bucket elevator transports these stocks vertically via buckets that are placed with a fixed space interval.

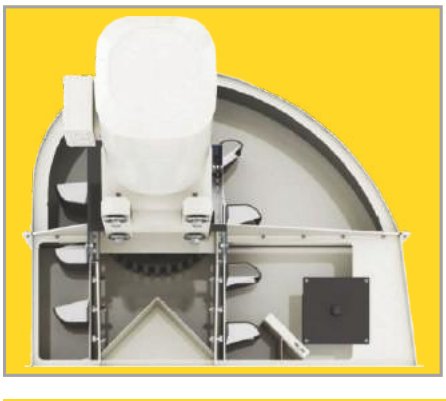
The belt operates on top (head) and bottom (foot) pulleys. The top pulley is driven by the electric motor, whereas the bottom pulley operates as a turn buckle.

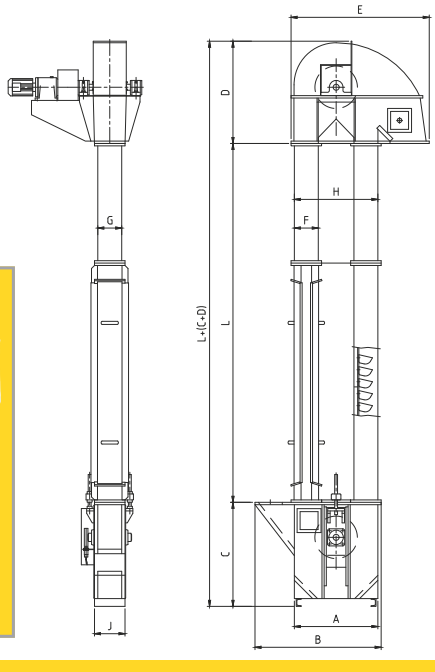
Material type of the buckets, shape, spaces, belt speed and pulleys vary depending on the site, elevator efficiency is crucial, as well.

(Product: Bulky materials used in feed and flour industry)

FEATURES

- Capacity: 16-487 m3/hour, 8-243,5 ton/hour (d=0,5 ton/m3)
- Height: 4-70 meters
- Belt Speed: 1,8-2,6 meter/sn
- Pulley diameters: 300-800 mm
- Buckets: 4-9 bucket/meter
- Bucket Width: 100-680 mm, 1-2,5 mm wall thick metal plate and plastic
- Belts: 110-680 mm width, 6 layered, 10 mm, oil and acid resistant.tx





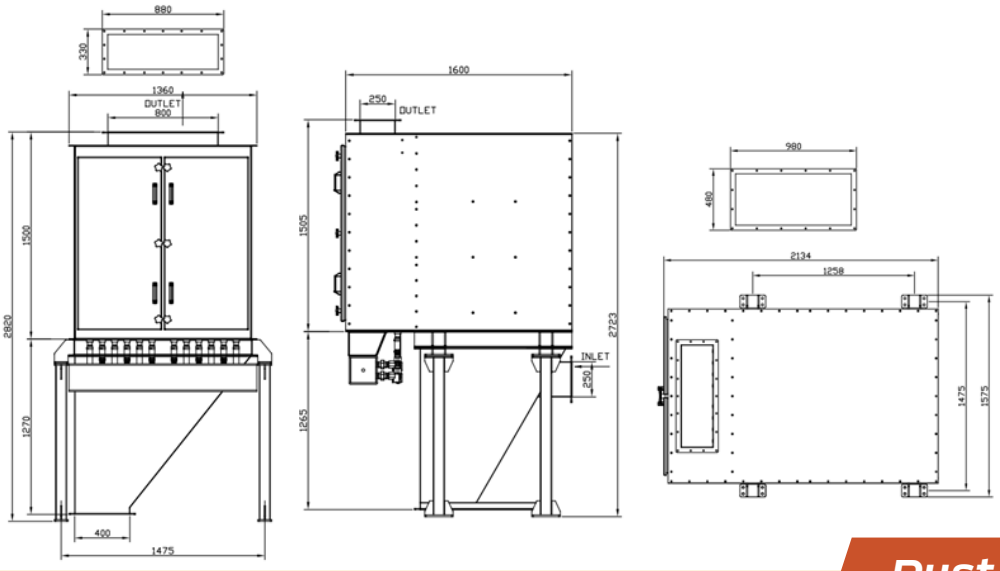
BUCKET ELEVATOR

Type	Size									Capacity (m^3/h)				Belt width	Bucket width
	A	B	C	D	E	F	G	H	J	1,8 M/S	RPM	2,6 M/S	RPM		
150x150	648	955	770	755	1055	150	150	648	205	11	127	14	159	120	100
200x200	698	1055	870	855	1155	200	200	698	255	32	86	46	124	170	140
250x250	932	1374	1080	1145	1497	250	250	932	315	58	69	84	99	210	180
320x250	932	1374	1080	1145	1497	250	320	932	385	82	69	118	99	270	240
400x350	1220	1745	1319	1465	2035	350	400	1225	470	106	57	153	83	350	280
450x350	1220	1745	1319	1465	2035	350	450	1225	520	171	57	247	83	400	320
620x380	1460	2078	1569	1721	2395	380	620	1466	708	248	43	359	62	550	470
750x380	1460	2078	1569	1721	2395	380	750	1466	838	279	43	402	62	680	630

Hammermill Dust-Collecting Filter System

Filtration system has to be used in hammermills to increase capacity and not to be burned, flamed up and not be jammed in hammermill screen.

Based on capacity and crumbled good's properties, Feedtech manufactures products in different capacities.



HAMMERMILL DUST COLLECTING FILTER SYSTEM		
Type	Number of bags	Bag area (m^2)
Feedtech 24	24	34
Feedtech 36	36	50
Feedtech 60	60	84
Feedtech 87	87	74
Feedtech 119	119	101

Raw Material Aspiration System

Feedtech raw material aspiration system is designed to to collect flying dust occuring in raw material. The dusty air which is created during grain unloading is aspirated by the fans of the intake pit dust extraction system. A bag filter separates the dust and the cleaned air is returned into the room. The bag filter is cleaned with compressed air and the dust is guided to the intake pit. Therefore, a dust collection system is not required. In this way, the loss of raw material sourced by dust and pollution are prevented.

The dust extraction system for the intake pits is installed in modules. Every module is equipped with a fan and exhaust silencer for aspirating the air. Bag filters made of polyester clean the air inside the module.

FEATURES

- Individual and independent modules
- Optionally extendable
- Large filter areas with high airflow
- Immediate installation on or next to the intake pit
- A dust collection system is not required
- Bolted housing made of galvanized sheet steel
- Fan with exhaust silencer
- Bag filters

RAW MATERIAL INTAKE ASPIRATION SYSTEM

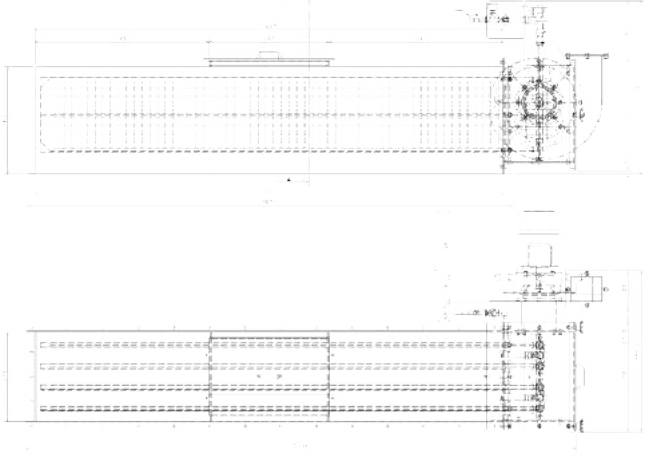
Type	Fan flow (m^3/h)	Number of bags	Bag area (m^2)	Length (m)	Air volume (m^3/h)	Filter area (m^2)	Elektrical power fan (kW)	Elektrical power inclusive compressor (kW)	Air pressure volume (NL/m)	Elektrical power compressor (kW)
AKFL-26	3000	26	23,8	8	44.000	144	4 x 5,5	27,5	400	5,5
AKFL-39	4000	39	33,9	10	55.000	180	5 x 5,5	35	500	7,5
AKFL-52	7200	52	47,6	12	66.000	216	6 x 5,5	41	600	2 x 4
AKFL-78	9600	78	69,6	14	77.000	252	7 x 5,5	46,5	700	2 x 4
AKFL-78p	15000	78	69,6	16	88.000	288	8 x 5,5	55	800	2 x 5,5
AKFL-104	15000	104	95,3	18	99.000	324	9 x 5,5	60,5	900	2 x 5,5

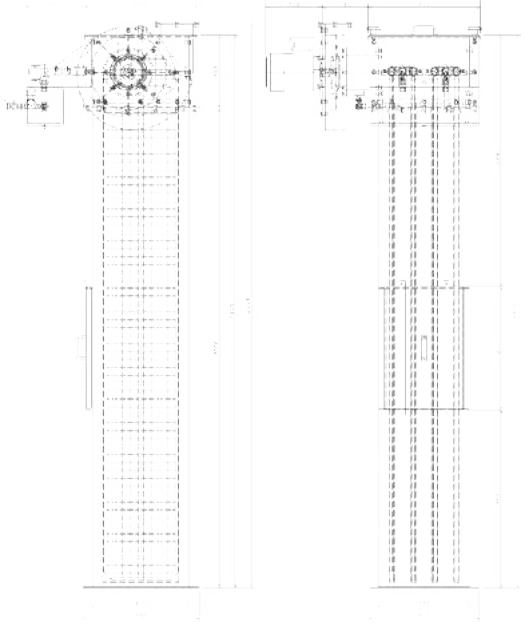
Spot Filter System

Spot filters are suitable for the use in elevators, conveyor belts and chain conveyors for the transport of grain and other bulk goods. Optimal prevention from dust explosion.

ADVANTAGES

- Easy replacement of filter bags
- Minimal dust circulation
- Pressure-shock-resistant design
- Compact design





SPOT FILTER SYSTEM

Type	Filter Area m²	Number of bags	Length of bags	Size	
				A	B
FSF 1000	1/4	2	1000	1050	200
FSF 1500	2,1	2	1500	1550	200
FSF 2000	2,8	2	2000	2050	200
FSF 1000	2,8	4	1000	1050	380
FSF 1500	4,2	4	1500	1550	380
FSF 2000	5,6	4	2000	2050	380
FSF 1000	4,2	6	1000	1050	560
FSF 1500	6,3	6	1500	1550	560
FSF 2000	8,4	6	2000	2050	560

Vacuum Coater

Feedtech vacum coater is a great help in adding high percentages of luquids to pellets and extrudates.

SUITABLE FOR:

Aquatic feed plants

Addition of pigments and micro-ingredients as well as oil up to 30%

Pet food plants

Addition of micro-ingredients, aromas as well as oils and fats up to 17%

Feed production

Addition of Phytase enzymes and vegetable oil up to 8%

FEATURES

- Versatile operation and compact design
- Low energy consumption
- Volume:500 – 2800 litres
- Line capacities: 3000 to 20,000 kg/h, depending on the amount of liquid added
- Minimum volume: 25% of the nominal volume
- Maximum volume: 110% of the nominal volume
- Maximum percentage of added liquids is 24% (excluding fat and oil which is already present in the product)

ADDITIVES

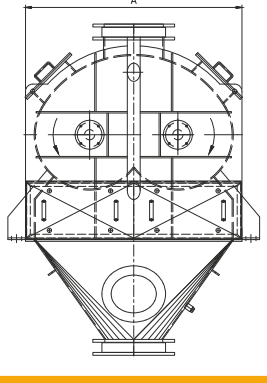
The following products can be added, either hot or cold:

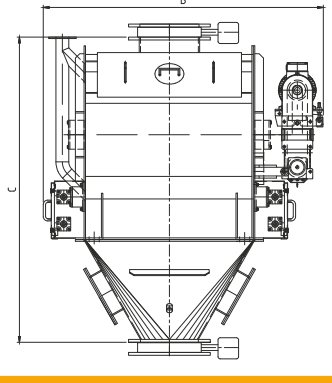
- Fish oil
- Soya oil
- Fats
- Chemicals
- Colourings
- Medicines

Mixed liquids

OPTIONS

- Standard in normal steel and suitable for 200 mbar of absolute under pressure.
- In 304 or 316L stainless steel
- Integrated sub-hopper with butterfly valve
- Vacuum pump
- Liquid dosing pumps
- Powder feed
- Weighing system
- Mixing tanks for a various liquids
- Drive provided by two motor reducers
- Insulation
- Heating





VACUUM COATER

Type	Motor Power (kW)	Size			Effective Volume	Batches per hour*	Minimum Capacity (t/h)	Vacuum Time (s)
		A	B	C				
dpmvc-500	6	1500	1535	1850	500	17	5	25
dpmvc-700	9	1620	1735	2050	700	17	7	35
dpmvc-1100	15	1815	2140	2500	1100	17	11	40
dpmvc-2100	22	2265	2750	2950	2100	17	21	45/35
dpmvc-2800	30/37	2475	3130	3250	2800	17	28	60/50

Based on 2 time lquid addition + s.w. 0,6 kg/dm^3. Design data may change without prior notice

Microdosing Systems

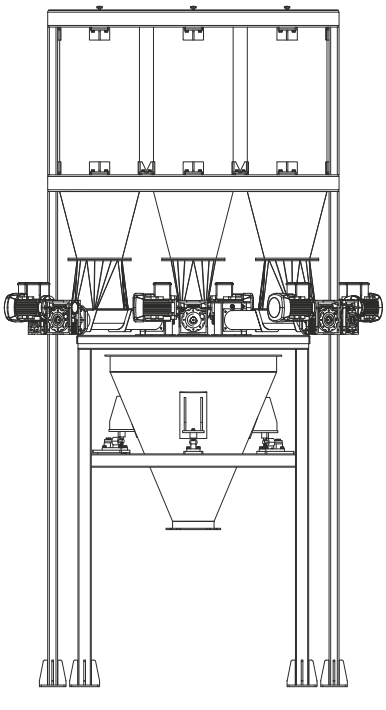
Feedtech microdosing systems can include up to 34 dosing cells, each equipped with a screw feeder. Poorly flowing products can easily be assisted by a rotary discharge euipment.

The screw feeders discharge into one, two or three weighers, depending on the total number of components.

The micro dosing system has two flexible rotary valves with a flexible connection which serves as an airlock. The separate bins are made of stainless -or mild steel and have a special inner layer for food products. The dosing screws can have different diameters. A larger screw is provided with a smaller screw underneath to achieve optimum accuracy. Works inline with the central charge system in modern feed plants.

FEATURES

- High accuracy in weighing
- Flexibele formulation
- Fully automatic controlled proces
- Dustproof design
- Bunkers made from stainless steel or steel ST37
- fine-dosing feeder for maximum accuracy



MICRODOSING SYSTEMS		
Capacity	Silo's Diameter	Sensors
10 kg	600 mm	3 x 20 kg
50 kg	800 mm	3 x 50 kg
100 kg	1000 mm	3 x 100 kg
500 kg	1200 mm	3 x 250 kg

Rotary dischargers are highly suitable for the discharging of powders or granules with poor flow characteristics from bins and silos. They can also be used to provide regular feed to processing machines or weighing hoppers.

The structure consists of a fully enclosed cylindrical steel housing with a flange for securing the discharger to the bin outlet. The motor reducer, which is attached to the base with a flange and drives the rotor, is fitted with specially shaped blades. An electro-pneumatically operated discharge slide is provided for products with a tendency to discharge in an uncontrolled manner.

OPTIONS

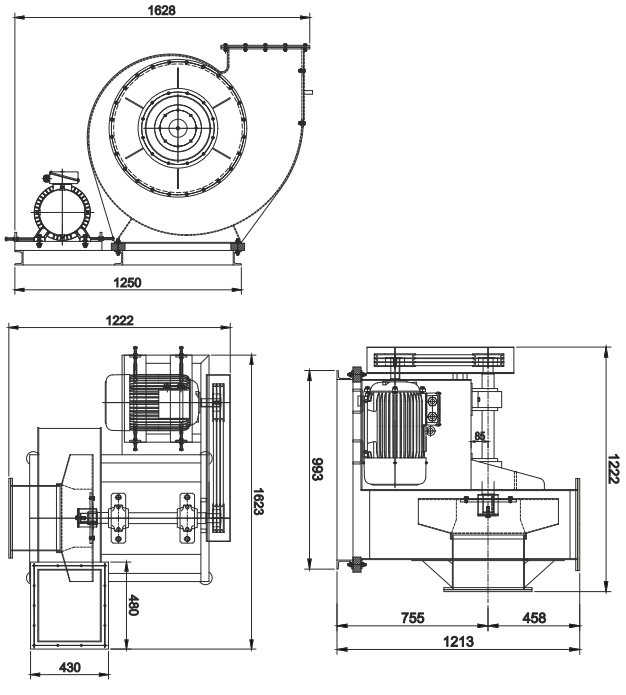
- Stainless steel housing and rotor
- ATEX motor
- Multiple outlets

ROTARY DISCHARGER		
Type	Drive (kW)	Circuit
930	2,2 kW	9,3 rpm
930	3 kW	11 rpm
1200	3 kW	11 rpm
1200	4 kW	14 rpm
1500	7,5 kW	14 rpm
1500	11 kW	14 rpm

Fan Equipment

It is a cooling, drying, dust collecting equipment with adjustable capacities according to properties and required values.

FEATURES
- Capacity: 12000 m3
- Pressure: 320mmSS
- Motor power: 15 kW

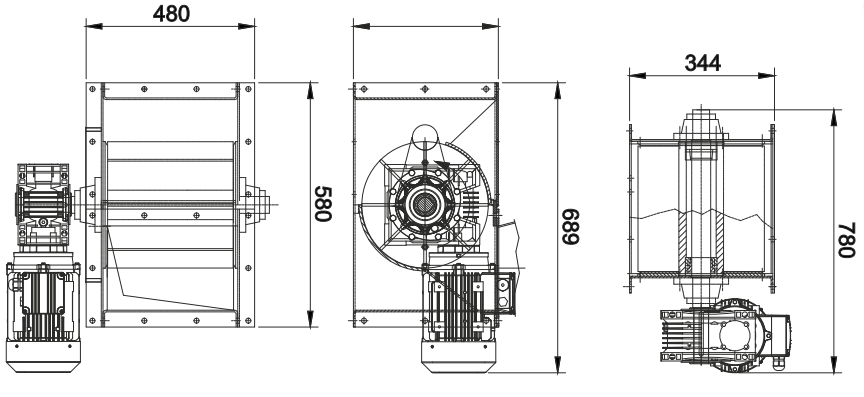


Air Lock

It works by a direct motor connected. Where the fan doesn't suck air, the airlock starts working. It sends back the particles to be used again.

It is completely made of steel. The motor is directly coupled.

FEATURES
- Diameter: 300 mm
- Motor: 1.1 kW

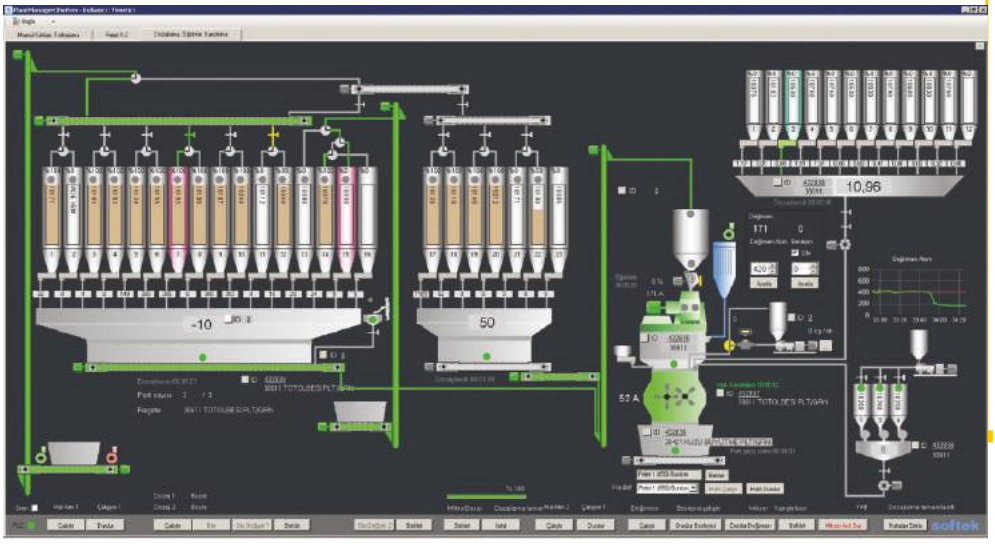


Automation helps to increase efficiency, productivity, and flexibility of production lines.

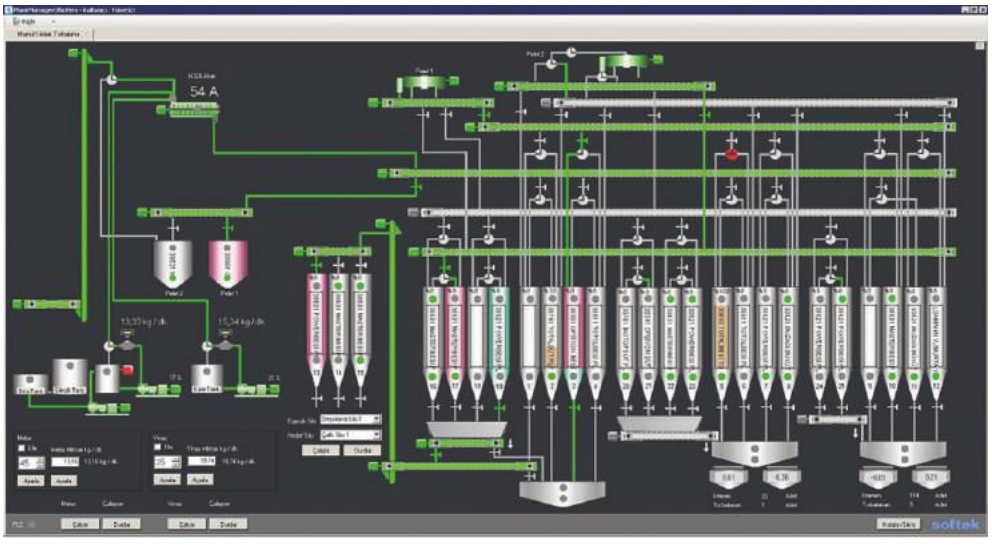
We provide Platform Independent Automation & Custom software Services in PLC, SCADA, VFD, HMI, control panels and much more. Feedtech automation softwares deliver cost effective solutions to improve and develop efficiency and reliability. The software tools help to monitor, analyse, report the production process and save time.

FEATURES

- No time loss by remote connection and support
- Delevoping PLC, SCADA, direction and integration softwares,
- Developing MCC and PLC projects and producing panels in target IP class,
- Consultation for choosing sensors, wire systems, electromechanisc and pneaumatic tools
- Wiring, taking into circuit, process optimization,
- Modernization of manual or semiautomatic plants
- 24/7 maintenance and helping services

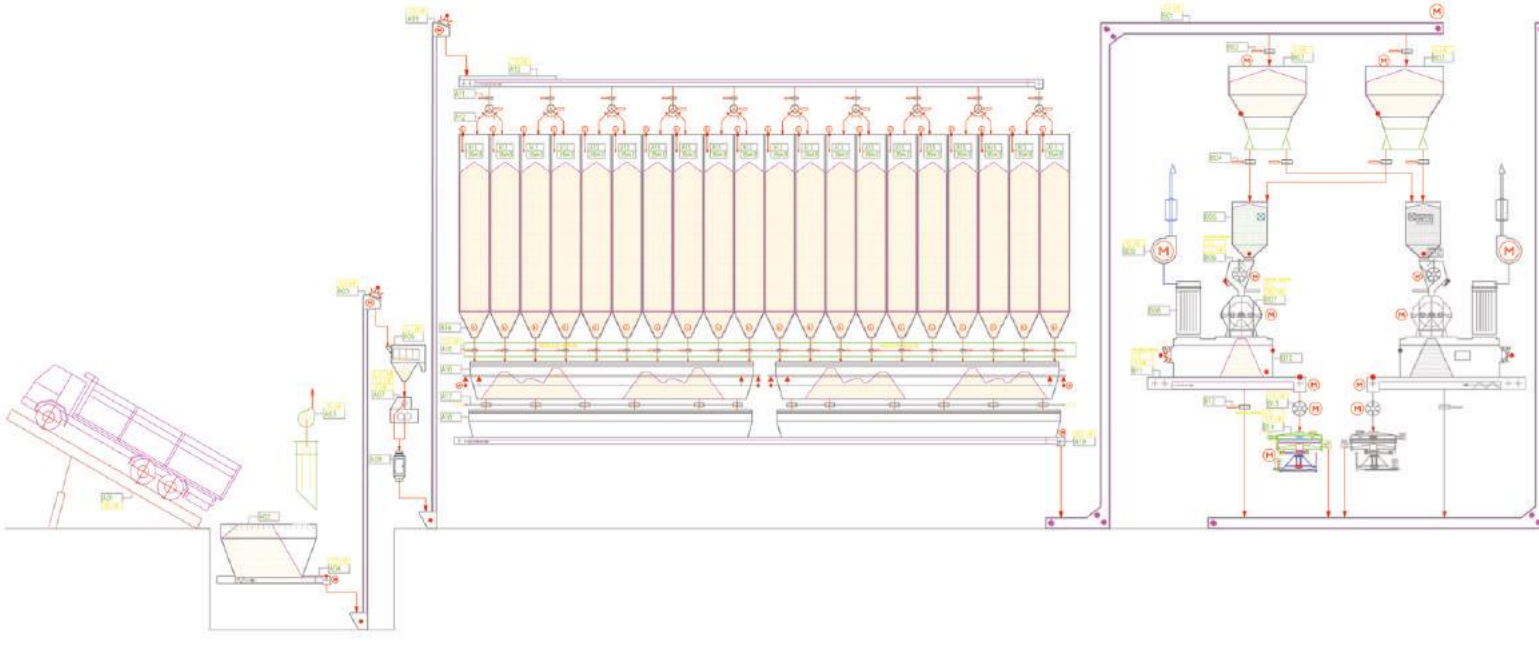


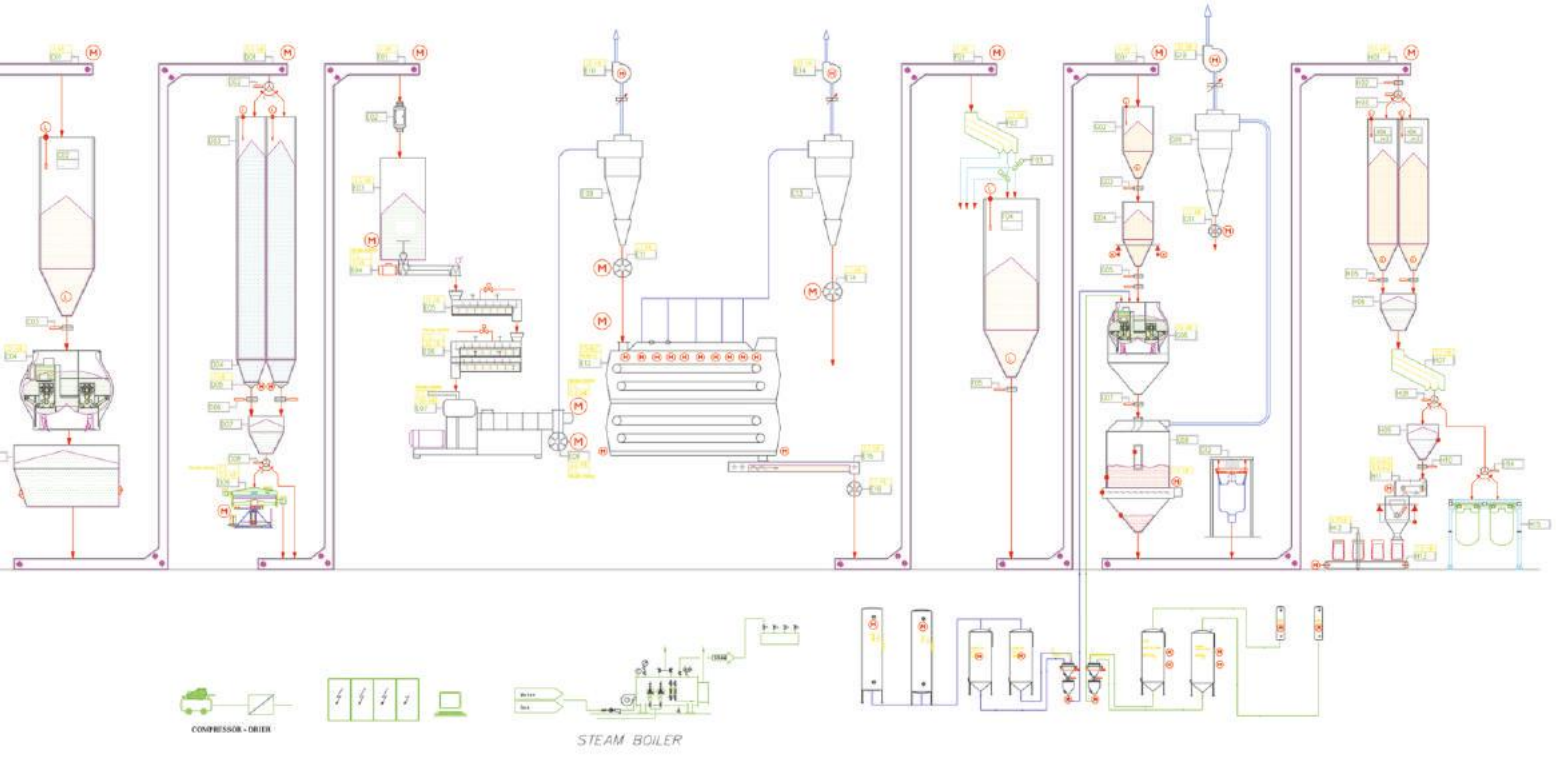
Raw Material In Take Dosing



Raw Material Silos

Pelleting




COMPRESSOR - DRIER
STEAM BOILER

50

YEARS OF ANIMAL FEED EXPERIENCE

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