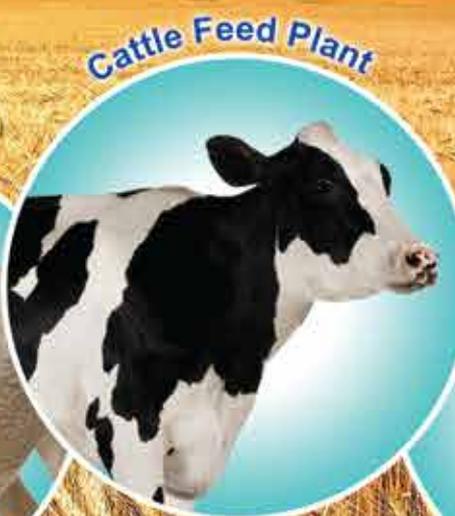




Expert in
Turnkey
Feed
Plant



Company Profile

Our company was established in 1989 in Adana. Mustafa Ugur Kizil is our company owner and General Manager. Our Company's facilities include Feed Mill Complex Construction, Steel Silo and Grain Storage Construction, Establishment of Dryers and Drying Complexes in various places. From the very beginning of its foundation, Kiziler has adopted the principles of quality and customer satisfaction. Many projects of public and private sector companies have also been smoothly and successfully concluded. Following projects are just couple of the ones we have concluded for Public Services: Republic of Turkey Ministry of Agriculture Grain Board's Grain Storage Steel Silos, Agriculture and Credit Cooperatives' Regional Office Works, TIGEM, Sugar Beet Growers Cooperative and Head Quarter's Projects, BOTAŞ (Kayseri District Management's Works), Gendarmerie General Command's Military Station Housing Construction, Municipality Constructions. We provide many services to private sector companies in the agricultural and industrial fields. All experience gained from these works makes Kiziler Co. a stronger company to serve on time with greater quality.

Company's Business Areas

- Manufacturing and Installation of Feed Factory .
- Establishing Steel Silo Plant (Grain Storage Systems)
- Maize Dryers Establishment
- Grain Conveying Systems (elevators, elevator towers, spiral conveyors, bent conveyor, chain conveyor) for Steel Silo and Grain Dryers
- Power and automation control systems, automation control panel (PLC, SCADA, MMC) and electrical works.
- Dust collection systems , vacuum cleaners and fans
- Heating - cooling , air conditioning systems and water towers
- Cold room facility (food items for storage)
- Buildings , villas, industrial facilities and residential construction
- Reinforced concrete tank construction
- Infrastructure , sewage, drinking water construction



Pelleting Equipments

Pellet Mill

- **High Yield:**
MUZL2010 pellet mill can be up to of 40 t / h with Ring configured with 935 mm diameter cast.
- **Smart Control**
Everything is just a click away with the computer control.
Quick hydraulic molding and de-molding of system enables the replacing of the mold lasts in shorter time, installation accuracy of the ring mold is increased with decreased labor intensity.
The gap between press roll and ring mold is adjusted by automatic adjustment system so the pellet length can be controlled efficiently, whereby the service life of the ring mold and the press cylinder is extended.
- **High Yield**
With big power, pellet mill can gain high yield, and power consumption to achieve only a single feed production with high efficiency is only 7.5 kW . h / t.
- **Strong Stability**
Double engine and V- Bents with pull in winding connector distributes equal load, enables transmission and very low noise.
- **High Quality**
Guaranteed quality and quantity is established by powerful double entry conditioner.

Capacity (t/h)	Main Engine Power (kW)	Inner Diameter of Cast (mm)	Number of pulley	Feed Screw Power (kW)
55x2/75x2	3-18	0)520	2	1.5
90x2/110x2	5-25	0)630	2	2.2
90x2/110x2	5-25	0)630	2	2.2
132x2/160x2	10-35	0)800	2	2.2
132x2/160x2	10-35	0)800	2	2.2
180x2	15-40	0)935	2	3



Drying Equipments

Multi Channel Convection Dryer

- **Low energy consumption:**
Since the use of a thermally insulated box and %50-90 hot air cycle, energy consumption and production cost drops significantly.
- **Less rupture:**
Use of double pallet bents diminishes the damage on grain surface.
- **Homogeneity:**
Cautious applications like Double way cross flow dry, adjustable item spreader, item distributor keep homogeneity of all grain in the dryer same level.
- **Smart:**
Drying Temperature, item holding duration and flow depth is smartly controlled by a computer
- **Self clean:**
Automatic sweep on the bottom cleans the dryer by itself.
- **Quality:**
The entire machine is manufactured according to international standards and all the flat material are cut by laser cutting and thereby prevent deformation caused by hand cutting. Important parts are import.
- **Multi Task:**
It is not only applicable for high grade extrude pet feed pellets and drying for animal feed but also appropriate for grain grinder, food & chemical industries' granular and pulp material.

Capacity (t/h)	Power (kw)
3.0-6.0	64.5
3.0-4.0	30.65
5.0-6.5	38.25
6.0-8.0	44.25
8.0-10	56.25



Grinder Equipments

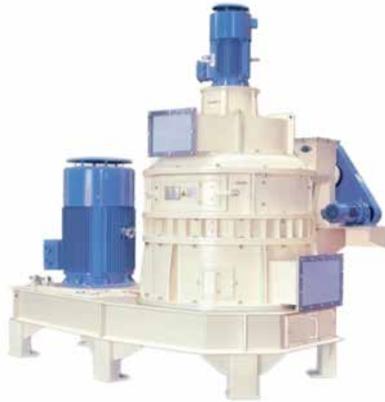
Thin Grinding Hammer Mill



- Capacity (200kW) 26.4 t/h
- %20 Less Energy Consumption

Resource	Sieve Hole (mm)		Capacity (t/h)		Capacity Increase
	200kw	160kw	200kw	160kw	
Soy Beans	1.0	1.0	10.890	8.712	30% - 60% more than from same power grinder
	1.2	1.2	15.713	12.570	
	1.2	1.5	18.670	14.936	
	1.5	1.5	20.772	16.618	
Cotton Seed	1.0	1.0	8.323	6.658	
	1.2	1.2	12.815	10.252	
	1.0	1.0	9.750	7.8	
Wheat	1.0	1.2	10.895	8.716	
	1.2	1.2	13.393	10.714	
	1.0	1.0	3.792	3.013	
Wheat Bran	1.2	1.2	5.098	4.078	
	1.5	1.5	7.597	6.0	
Fish Feed Mixed Ingredient	1.5		26.401	21.120	

Vertical Pulverizer



- Re- calculating and modifying parameters of the convex surface coating by Bernoulli principle; airflow efficiency is increased .
- Aerodynamics is used to redesign and calculate of grading and collection system.
- Given to the energy conversation principle high yield configuration grinding system increases the use of kinetic energy.
- Military technology application enables high service stamina and long term service life of grinding components.

Capacity (t/h)	Power (kW)
2.4--5	110

Hammer Mill (Layer Feed)



- Two types are included , slow- and two-speed type. The first is for the particular layer feed; second in addition to the layer feed, it is suitable for to be grinding items of widespread feeding types
- Small rotor diameter and low linear velocity of the hammer assure to produce less dust
- If it is equipped with two- speed motor , it will have multiple functions , so as coarse grinding and normal grinding
- The rotor can move forward and backward ; Considerably extends the service life of wearing parts
- Running cap is equipped with a locking device for internal security and while the cover is open the engine can not be started .

		Slow Speed	Double Speed	Slow Speed	Double Speed	Slow Speed	Double Speed	Slow Speed
Power(kw)		11	11/22	15	15/37	22	18.5/45	37
Capacity (t/h)	3 mm sieve (mill)		1.5-3		2-6		3-7	
	8 mm sieve (rough mill)	8-12	8-12	12-17	12-17	17-22	15-20	25-32

The Data above is up to the following conditions:
Product: Maize, Humidity: >14%, Density 0.721/m3
Capacity for 3 mm sieve: Adjust to double speed hammer mill to the top disc.
For 3 mm sieve the open ratio should be >42% and for 8 mm sieve the open ratio should be > 48%



Hammer Mill

Horizontal hammer mill is a classic model. It offers stable performance in large and mid-sized feed mill, It is also used in solvent complexes and alcohol distillers facilities, it has a good reputation and is widely used in the feed industry.

Mixer Equipments

Double Space Paddle Mixer

- High Blend Homogeneity : Internal and external double flats produced by strong convection paddle , cutting and mixing homogeneity in national patented double rotor design of flats under stirring effect can access 97.7%
- No Residue : The adjustable gap between Mixing chamber and the paddles provides a very long retention rate, protects the grain from cross pollution; bottom emptying cover with the exact length of mixing chamber enables the mixed product to be emptied in a very short time, keeping residue in minimal amounts.
- Zero leakage : an air bag is sealed discharge valve of the tire, provides zero leakage and ensure zero leakage in the shaft at the end of seal design package .
- Humanisation : Reasonable design with large access doors make it possible to alter the paddle easier and cleaning of the mixing chamber, while saves time as well.
Lift-type liquid adding system and air atomisation design gives additional features to mixer with high precision and assure homogeneous mixing without clumping .



Volume (m³)	Capacity (kg/bat)	Power(kw)
0.2	100	2.2/3
0.5	250	5.5/7.5
1	500	11/15
2	1000	18.5/22
3	1500	30
4	2000	37/45
6	3000	55

Double Shaft Paddle Mixer

- Low-speed operation, high efficiency of mixing , water movement and smooth operation , the addition of molasses and liquid & oils such as manifold are available.
- Low mixing time (40-60 s / section), and high mixing homogeneity (CV <5%, possibly up to 3%)
- Patented dual -leaved discharge control mechanism, ensures no leakage and fast material discharge without residues; (ZL 94 2 42382.8)
- Suitable for Mixing premixes, feed for poultry and livestock , aquaculture feed , food additives and bakery products, chemical and pharmaceutical industries.



Capacity (kg/bat)	30	50	100	175	250	500	1000	1500	2000	3500	4000	5000	6000
Power(kw)	1.1	2.2	2.2	4	5.5/7.5	11/15	18.5/22	22	30/37	45	45	55	37x2

Extruders

Double Screw Extruder

- Smart: Computer based Automation control systems can control the items' flow rates and ratios of the items inside the extruder. Automatic controlled pneumatic bypass provides a block to barrel when it faces a blockage, high precise weigh feeder bract can provide the feeding quantity.
- High Yield: Flexible combined barrel and combined screw types enables an optimum combination for the items to be processed. Rapid adjustable and appropriate shape for alteration makes the extruder perfect for floating feed, animal feed and full flat and extended soy bean process. Special suspension cutting device increases the production efficiency by adjusting the cutting blades without shutting off the machine.
- Energy Saving: Decreases the energy used; thus low consumption of energy provides low process cost.
- Environment Friendly: Protects the aquaculture stem from pollution to increase the life quality



Screw Diameter (mm)	120	160
Capacity (t/h)	4-6	6-10
Main Engine Power (kw)	200	315
Conditioner Engine Power (kw)	18.5	22
Feeder Power (kw)	1.5	3

Conditioning Equipment

High Yield Conditioner



- Stainless steel, Corrosion resistant
- Special rotor structure of conditioner, provides superior mixing and long-term conditioning functions
- Special paddle structure ensures equal discharge and little residue
- Multipoint Steam structure contributes to a homogeneous distribution of steam
- Sheath structure for heat storage is useful to maturity and sterilisation of materials

Capacity (t/h)	Holding Time (min)	Main Engine Power (kW)
7.5+5.5	7.5+5.5	75-150

Sieving Equipment

High Efficient Ultra-Fine Sieve



- Technical Principles like Rotary centrifugal separation and reverse flow provides this sieving machine ranks fine dust smaller than 30 holes and a high capacity , good performance, simple technology and low space requirement
- Belt drive , stable transmission and low noise;
- Stainless steel wire mesh with a mesh cylinder, makes a much better screening efficiency ;
- Wide cap on each side casing ensures easy installation and maintenance
- Removes flat nozzles with back flu suck excess outside the screen cylinder and prevents clogging by providing the mesh sieve cleaning
- Contact of the material to the each part of the screen cylinder by the rotation sieve; provides the opportunity to use and increases the sieve.
- Suitable for feed, flour , food, chemicals for improved sieving and grading of the fine material in the mining and paper making industries.
- Used as a process step Following the Thin or ultra thin grinding to be protective on repeating grinding.

Capacity (t/h, 30 holes)	Power(kw)
2-3	11+0.37
3-5	15+0.37

Stick and Grass Process Equipments:

Double Rotor Stick Mill



- Dual rotor structure facilitates the material supply and capacity building
- Wide crushing chamber increases the stem grinding and production rates
- Tangential inlet attached handle suitable for feed ;
- Cantilevered screen design maximises the use of screens effectively and increase the crushing efficiency;
- High-precision dynamic balance provides a more stable operation and low noise ;
- Bearings imported used provides a longer service life and lower maintenance costs ;
- Suitable for herbs, stems and leaves and so on.

Capacity (t/h)	Power (kw)
2-8	55x2

REFERENCE



TIGEM GENERAL DIRECTORATE OF AGRICULTURE ENTERPRISES
GOZLU FEED PLANT- KONYA/TURKEY



TIGEM GENERAL DIRECTORATE OF AGRICULTURE ENTERPRISES
GOZLU FEED PLANT STEEL SILO COMPLEX - KONYA/TURKEY



TIGEM GENERAL DIRECTORATE OF AGRICULTURE ENTERPRISES
SULTANSUYU AGRICULTURE ENTERPRISE-MALATYA / TURKEY



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ADANA/ TURKEY



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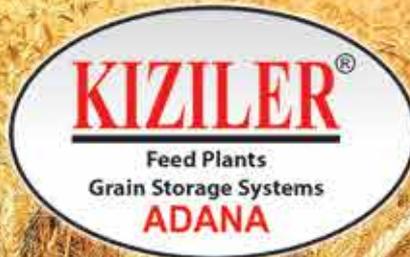
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