

From Concept to Commissioning

Henan Kingman M&E Complete Plant Co., Ltd
Feed & Biofuel



Henan Kingman M&E Complete Plant Co., Ltd

Add: Rm.1704 Manhattan Commercial Plaza,Jinshui Rd.,Zhengzhou,China

Zip Code:455000

Tel:0086 372 5953961

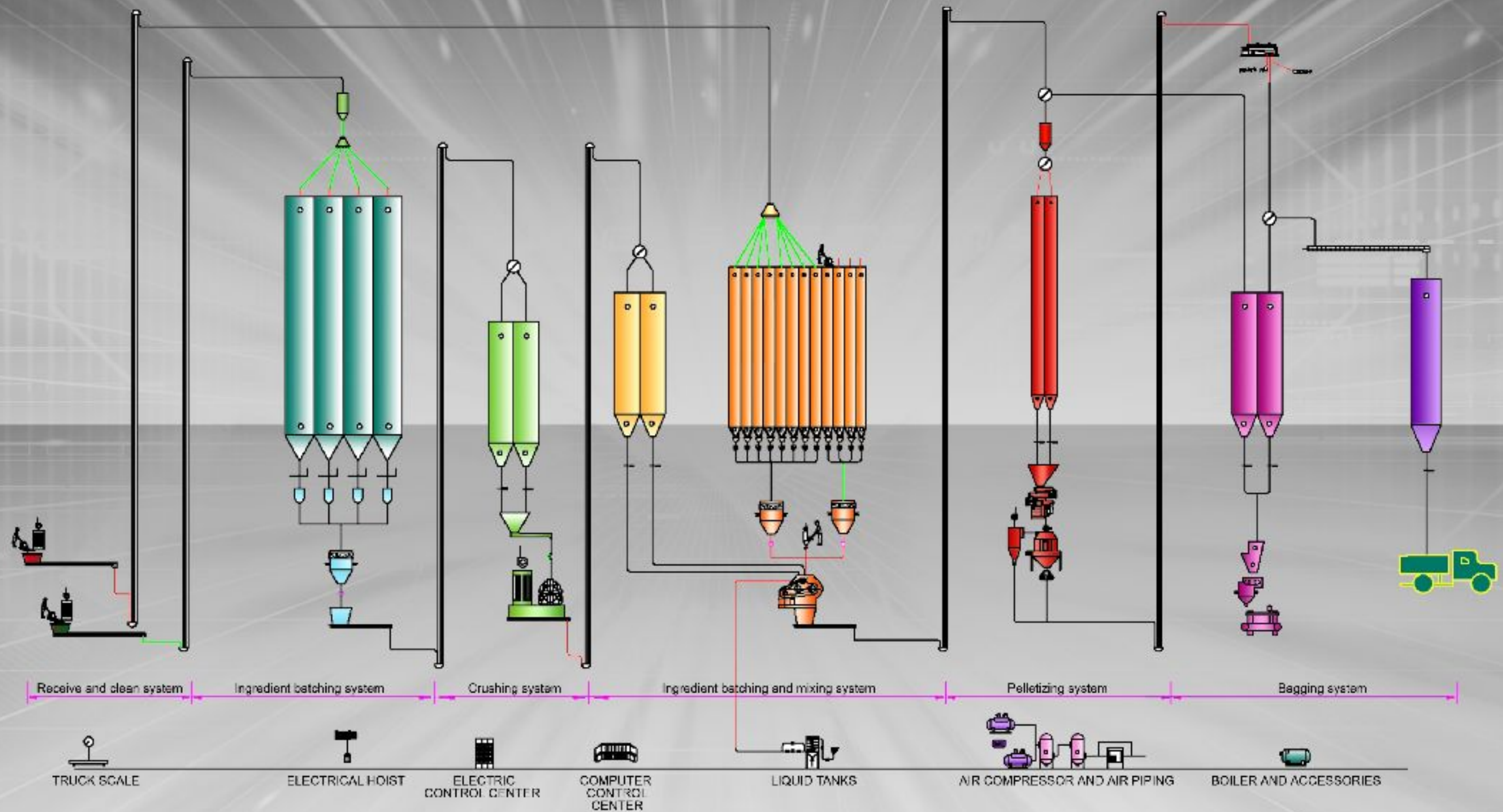
Fax:0086 372 5951936

E-mail:Info@feed-machinery.com

<http://www.feed-machinery.com>

<http://www.woodpelletline.com>





Process flow diagram

Our designs for feed production plants and the individual process operations are complex, requiring the appropriate engineering know-how. KMEC technicians are experienced in various technologies, including feed machinery design, feed processing, architectural design, electric automation, computer monitor, animal nutrition, ventilation and dedusting, and storage design. And all these are the sole of the following process operations: cleaning, sorting, conveying, grinding, mixing, pelletizing, thermal meal treatment, bagging, aspiration, quality assurance, control and automation, which are needed to transform grain into balanced animal feeds.



ABOUT US

Henan Kingman M&E Complete Plant Co., Ltd. (KMEC) specializes in the field of exporting complete projects for oil plants, flour plants and feed plants, and engages in external economic and technical cooperation. Our complete plants have progressed a lot since 2006. Company turnover reached USD 12 million in 2009.

Years of practical experience have strengthened our business. The core advantage of our company refers to the accumulation of capital, aptitude, talent, technology, and management. What's more, we have senior engineers specialized in oil as our technical consultants during the whole process of our projects. Sophisticated working environment and advanced design software, all these made our mating reforms and services more and more scientific, and more professional. Our company has built long term relationships with many other professional equipment manufacturers, forming reliable supplying channel.

Our company offers tailor-made turnkey solutions to our clients from designing and erection to commissioning and maintenance. All these make sure that you will be offered the best equipment.

Great service, highest quality, competitive prices and timely delivery make up our operating principles. We do our global business based on team work. Good reputation, reliable equipment, and good service are our values. Working harder, we do believe we can be NO.1 in this field. We are dedicated in making more progresses in the future worldwide market.



Complete Poultry Feed Mill (200000 tons/year capacity)

This project has been operating for four years.

Location is Zhongmou in east part of Zhengzhou city, Henan, China.



Grain steel silos



Raw material room for all ingredients



① Feeding pit

① Feeding pit

There is a scraper conveyor underground. The material will flow into the inlet of bucket elevator. The next system will be the crushing process or batching bins according to investor's exact requirements.

Pulse dust collector

During the feeding of ingredients, dust will be produced. Pulse dust collector will collect the dust automatically. It is controlled by central computer. The device makes task environment very clean.



② Basement of feed mill



③ Setting chamber of hammer mill



Hammer mill

② Basement of a feed mill:

The connections are very good. There is no dust spillover point.

③ Setting chamber of a hammer mill:

The conveyors are installed in the basement.

Ingredient batching system:

The whole process is controlled by a computer according to nutrient formulas.





④ Ingredient batching scale



⑤ Double shaft paddle mixer



⑥ Pellet mill



Pellet cooler



⑦ Rotary sieve



Bagging system



Final products storage room

④ Ingredient batching scale:

Each ingredient will be transported to the scale. When its reaches the set weight, the computer control centers will stop its feeding auger and start the next one. So each ingredient will be feeded by its feeding auger. After the batching process completed, all ingredients in the scale will flow into the mixer that is under the scale. The batching process is the core system of the feed mill. It decides the nutrition value of the final feed products.

⑤ Double shaft paddle mixer:

Normally, the mixing process will take 3-5 minutes for one batch. It is setted on the same floor with pellet coolers. After the mixing process, next one is the pelletizing process.

⑥ Pellet mill:

It is the key part in the feed plant. The conditioner is made of stainless steel. The pellet mill can be used to make poultry feed, pig feed, etc.

⑦ Rotary sieve:

It processes cooled pellets. Qualified pellets will flow into the bagging system. Bigger ones will be crushed again. Small pieces will return to the pellet mill.





Hammer Mill

◆ Crushes raw materials such as corn, cotton seeds waste, and bean waste. 95% of the materials can get through 60 meshes, no block.

◆ Production efficiency is first class in the world. When the screen vibrates, the efficiency could be increased by 20-30%. The capacity to crush corn is 6t/h. By using a 75kw vibrating hammer mill, impulse fan 5.5kw, and mesh diameter 1.2mm, and the degree of fineness can reach 98% get through 24 meshes(0.85mm), 80% get through 65 meshes, 49% get through 80 meshes.

◆ Auxiliary facilities are the same simple as that of the ordinary one, without increasing power.

◆ The machine is stable and reliable. Vibrator and screen can be replaced outside the machine.



Model	SFSP56×36	SFSP56×40	SFSP56×60	SFSP112×40
Power(kw)	22,30	30,37	55	90,110
Capacity(t/h)	2-4	4-6	8-15	12-18

Note: The capacity is based on corn (13% moisture) as crushing material with 1.2mm screen.

Single-shaft Paddle Mixer

Paddles and replacable.

Rotor parts enduring.

◆ Materials can be completely mixed by gravity. Multifunctional liquids can be added in.

◆ Conveyed by three chains, with low speed and stable state.

◆ Short mixing period(40-120 sec/batch), with a high degree of uniformity ($C_v \leq 5\%$, min 2%).

◆ Discharges rapidly without leakage, little residual from double door structure.

◆ Multiway liquid adding system can be matched with compressed air jetting system.

◆ Being widely used in premix compound, poultry, aquatic feed, additives, chemicals and pharmaceutical industries.



Model	SLHSJ0.3	SLHSJ0.5	SLHSJ1.0	SLHSJ2.0	SLHSJ3.0	SLHSJ4.0
Power (kw)	3	5.5	11	18.5	22	30
Capacity (kg/batch)	150	250	500	1000	1500	2000



Pellet Mill

◆ The main transmissions are belt drive or direct gear drive.

◆ High quality bearings and oil seals have been equipped.

◆ Timing motor be equipped with material screw feeder.

◆ High quality stainless steel conditioner.

◆ The material of the ring die is alloy steel or stainless steel which is produced by advanced techniques, service be produced by advanced techniques, service life is long, the pellets are smooth, and quality is high.

◆ All overload protection devices and caution marks are completed.

Feed pellet mill parameters

Model	Main motor power(kw)	Capacity t/h	Feeder motor power(kw)	Conditioner motor power(kw)	Ring die diameter(mm)	Pellet size (mm)
KMPM25	15/18.5	0.5-1.5	0.75	2.2	250	Φ2-Φ8
KMPM35	55	2-8	1.5	2.2	350	Φ2-Φ8
KMPM42	110	3-12	1.5	5.5	420	Φ2-Φ8
KMPM520	150	4-20	1.5	7.5	520	Φ2-Φ8



KMPM42



KMPM35



Counterflow Cooler

◆ The SKLN counter flow cooler is the most popular series for standard pellet feedstuffs cooling.

◆ Its oscillating grid discharge system operates reliably and efficiently with little noise.

◆ Material is cooled to within 3-5°C above ambient temperature, and moisture content is reduced by more than 3-3.5%.

◆ It is easy to operate, offering flexibility with adjustable residence time.

SKLN 14 X 14



SKLN 19 X 19



Model	SKLN 11×11	SKLN 15×15	SKLN 19×19	SKLN 19×24	SKLN 24×24	SKLN 24×28
Capacity (t/h)	3	5	10	15	20	25
Power (kw)	0.75+0.750	0.75+0.75	1.5+1.5	1.5+1.5	2.2+2.2	2.2+2.2

Rotary Sieve

◆ This machine is widely used in the grading of pellets and crushed materials. Two-stage cycle crush process, crush clean and grading process.

◆ The inner structure adopts a streamlined design which can avoid materials barrier problem and cross pollution.

◆ The tail support is elasticity support. It can reduce noise and increase grading performance.

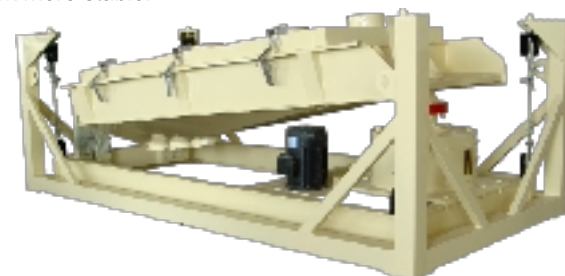
◆ The structure of the sieve is simple and convenient. The sieve can be changed quickly.

◆ There is a single-layer sieve, two-layer sieve and three-layer to be chosen by clients.

◆ The heavy frame and lengthened Elastic Plate can make sieve work more stable.

◆ There is no need for lubrication which avoids oil leaking problems.

Model	SFJH 80×2d	SFJH 100×2d	SFJH 130×2d	SFJH 150×2d
Power (kw)	1.5	1.5	3	4
Capacity (t/h)	4~6	5~8	8~15	12~20



Pellet Bagging Machine

◆ Includes an automatic scale, conveyor sewing system for animal feed pellets, heat sealing devices for wood pellets

◆ The special aseismic equipment can guarantee precise calculation, fast speed and stable work under bad conditions. It can be adjusted outside which is very convenient to maintain.

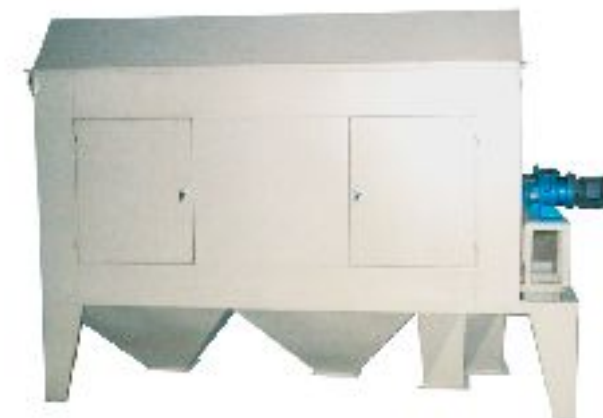
◆ The important parts which are imported from abroad have a long life and high Anti-jamming ability. The quantitative capacity can be adjusted freely in its range.

◆ It is widely used in bagging of pellets and powder materials.

Weight Range (Kg)	10 Kg-50 Kg
Precision at Static state(%FS)	0.1
Precision at dynamic state(%FS)	0.2
Bagging Speed (bag/hour)	300-400



TCQYS Series Two Layer Cylindrical Drum Precleaner



◆ It is an integrated precleaner which can separate large, medium and light impurities.

◆ It has the advantages of stable performance, nice appearance, and tight structure. The angle of the drum can be adjusted.

Model	TCQYS85	TCQYS100A	TCQYS100B
Power (kw)	1.5	2.2	3
Capacity (t/h)	30~50	80~100	150~220



TCQY Series Cylindrical Drum Precleaner



- ◆ It is widely used to preclean large impurities in the pellet materials. Such as rice straw, wheat straw, hemp rope, paper, corn-cob and other impurities.
- ◆ It has the advantages of stable performance, beautiful appearance, and compact structure. The installation and maintenance is convenient.

Model	TCQY63	TCQY80	TCQY100	TCQY125
Power (kw)	0.55	0.55	1.5	2.2
Capacity (t/h)	20~40	40~60	60~80	100~120

SCQY Series Conical Drum Mash Precleaner

- ◆ It has the advantages of stable performance, beautiful appearance, and compact structure. The installation and maintenance is convenient.
- ◆ It is mainly used to clean the impurities in powder materials and power materials in the finished products.

Model	SCQZ60	SCQZ60	SCQZ120
Power (kw)	5.5	11	18.5
Capacity (t/h)	10~15	20~30	40~60



TBLMY Series High Pressure Pulse Dust Collector

- ◆ TBLM series high pressure pulse dust collector has reliable performance, highly efficient dust collection, is easy to operate and maintain, and occupies less workspace due to its compact frame.



Our Series include TBLMY4, 9, 12, 24, 48

Model	TBLM4	TBLM9	TBLM12	TBLM24	TBLM48
Capacity(t/h)	1200-1700	1900-2700	2100-3600	2780-6300	8400-12000
Power(kw)	1.5	2.2	3.0	5.5	15

TDSL Series Removable Belt Conveyor



Model (Type)	TDSL50×2	TDSL50×7	TDSL50×10	TDSL50×12	TDSL50×15
Power (kw)	2.2	2.2	3	4	4
Capacity	75 m3/h(bulk) 720 bag/h(bagged)				



TLSS Series Screw Conveyor



Model (Type)	TLSS16	TLSS20	TLSS25	TLSS32	TLSS40
Power (kw)	4-7	8-10	14-20	23-28	35-40

TGSU Series Conveyor



Model (Type)	TGSU16	TGSU20	TGSU25	TGSU32	TGSU40
Power (kw)	30	60	90	110	150

TLSS Series Pneumatic Valve



TBDQY Series Round 3-Way Valve



TZMQ Series Electric Gate
TZMQ Series Manual Gate
TZMQ Series Pneumatic Gate



TDSL Series Bucket Elevator



Model (TDTG26/18	TDTG36/23	TDTG36/28	TDTG48/23	TDTG48/28
Power (kw)	According to lift height				
Capacity (5-8	10-25	20-40	30-35	40-45

Rotary Distributor

Model (Type)	TFP×4	TFP×6	TFP×8	TFP×10	TFP×14
Power (kw)	0.37	0.37	0.55	0.75	0.75
Capacity (t/h)	40-60				



Automatic Feeding Funnel

