

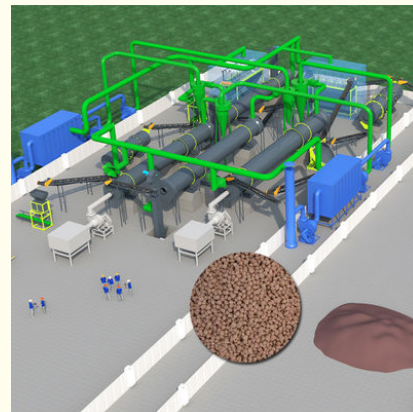


## Application Of Compound Fertilizer Production Line In NPK Compound Fertilizer Plant

Our Product Introduction

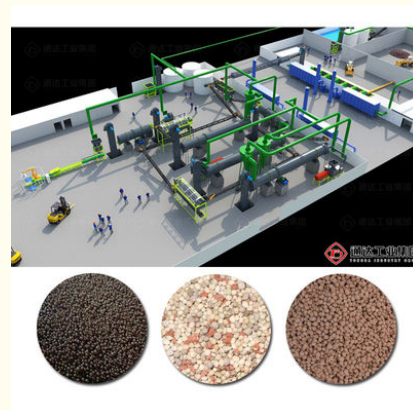
### Basic Information

- Place of Origin: China
- Brand Name: TONGDA
- Certification: ISO,CE
- Model Number: TDDGL
- Minimum Order Quantity: 1 set
- Price: Negotiable
- Packaging Details: According to customer requirements
- Delivery Time: 10-15 days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 100 units per month



### Product Specification

- Name: Compound Fertilizer Making Production Line
- Voltage: 380V, 220V Or Customized
- Granules Diameter: 2-30mm
- Raw Material Moisture: 2-5%
- Production Capacity (kg/h): 1-50tph
- Application Scope: Compound NPK Fertilizer Plant
- Highlight: **Fertilizer Production Line,  
Compound Fertilizer Production Line,  
NPK Compound Fertilizer Production Line**



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## Product Description

### Application of Compound Fertilizer Production Line in NPK Compound Fertilizer Plant

#### Characteristics of compound fertilizer production line products:

This equipment has low investment, fast effectiveness, and good economic benefits. The layout of the complete equipment process is compact, scientifically reasonable, and technologically advanced. Energy saving and consumption reduction, no discharge of three wastes, stable operation, reliable operation and convenient maintenance. Raw material adaptability, suitable for granulation of various raw materials such as compound fertilizers, pharmaceuticals, chemicals, feed, etc., with high product granulation rate. It can produce various concentrations and types of compound fertilizers (including organic fertilizers, inorganic fertilizers, biological fertilizers, magnetized fertilizers, etc.). Especially for the granulation of rare earth and ammonium carbonate series compound fertilizers.

**The process flow of compound fertilizer production line can usually be divided into: raw material batching, raw material stirring, raw material granulation, particle drying, particle cooling, particle grading, finished product coating, and finished product packaging.**

1. Raw material ingredients: urea, ammonium nitrate, ammonium chloride, ammonium sulfate, ammonium phosphate (monoammonium phosphate, diammonium phosphate, heavy calcium, superphosphate), potassium chloride (potassium sulfate) and other raw materials are prepared in proportion (according to market demand and soil testing results in different regions).
2. Raw material mixing: The compound fertilizer equipment will mix the prepared raw materials evenly to improve the overall uniform fertilizer efficiency of the fertilizer particles.
3. Raw material granulation: The evenly mixed raw materials are fed into a granulator for granulation (either a drum granulator or an extrusion granulator can be used).
4. Particle drying: The particles made by the granulator are fed into the dryer to dry the moisture inside the particles, increasing their strength and facilitating storage.
5. Particle cooling: The dried fertilizer particles have a high temperature and are prone to clumping. After cooling, they are easy to pack, store, and transport.
6. Particle classification: The compound fertilizer production equipment classifies the cooled particles, and the unqualified particles are crushed and re granulated to screen out the qualified products.
7. Finished film: Coating qualified products to increase the brightness and roundness of particles.
8. Finished product packaging: Bag the processed particles, which are the finished products, and store them in a ventilated place.

<b>Vertical chain crusher</b>	The plate thickness is 8mm, and the blade is made of manganese steel, which is mainly used for the crushing of raw materials to meet the requirements of granulation.
<b>Mixer machine</b>	Mix the powder raw material, small granular and semi wet material.
<b>Roller press granulator</b>	for making the fertilizer granules
<b>Rotary screener</b>	Wear-resistant steel mesh. It is mainly used for the separation of finished products and returned materials, and can also realize the classification of finished products, so that the finished products can be evenly classified.
<b>Coating machine</b>	It is mainly used for dusting powder or liquid coating of granules, which can prevent caking and improve brightness. It is also used in various multi-functional bacterial fertilizers.
<b>Package machine</b>	It is mainly composed of main machine, machine column, sewing machine head and conveyor belt. Different specifications can be packaged to improve work efficiency and reduce operating costs.

#### Characteristics of compound fertilizer equipment:

1. The applicability of raw materials and their wide applicability to the direct granulation of crude fiber organic waste with a moisture content of about 30%, such as fermented livestock and poultry manure, sugar factory filter sludge, urban sludge, papermaking sludge, distiller's grains, straw, and peat, can produce pure organic fertilizer, organic inorganic fertilizer, and bio organic fertilizer with spherical particles.
2. High ball forming rate and microbial survival rate: The new process can achieve a ball forming rate of over 90-95%, and the low-temperature and high air drying technology can achieve a microbial survival rate of over 90%.
3. The process flow is short and the operating cost is low. The organic raw materials used in this process do not require pre-treatment such as drying and crushing. The process flow is short and the operating cost is low (if traditional granulation processes such as disc or drum are used, the organic raw materials with a moisture content of about 30% after fermentation need to be baked to below 13% and crushed to 80 mesh or above, and the amount of organic materials added cannot exceed 30%).



#### FAQ:

**1. Are you trading company or manufacturer ?**

We are a manufacturer with a history over 40 years and have realized one-stop service for design, manufacture, installation, debugging and technical training.

**2. How long is the delivery time?**

For standard machines or Components, it would be 5-10 days; For non-standard machines and customized machines according to clients specific requirements, it would be appointment time.

**3. Do you arrange shipment for the machines?**

Yes, we will do that. For FOB or CIF price, we will arrange shipment for you. For EXW price, we will assist you in arranging shipment.

**4. How about your product after-sales service?**

Normally we provide video and written technical support. If necessary, our engineers can also provide on-site service. Our product accessories can be selected according to the actual needs of the customer to choose the most appropriate way to deliver.

**5. What kinds of certificate you have?**

ISO 9001: 2015 SGS and we can make other certificates according to customers' detailed requirements.

**6. How to guarantee the quality and operation before loading?**

We have our own quality control department and have advance quality control system while from raw materials to finished products. All the machines and production lines shall be 100% checked and tested before delivery.



TONGDA HEAVY

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