



Anhui Yechuang Machinery Technology Co.,Ltd.

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High Speed Lab Mixing Granulator



This is an advanced granulation process,which realizes mixing,granulating and drying functions in only one single machine.The mixtures will be heated up to a certain temperature at the first stage,then they will be transported into the rotating mixing pan,to be mixed,granulated and dried in the same machine.At last,the granules will be cooled to ambient temperature by a special multiple belt cooler to obtain the finished granules.

The final granules have stable grain gradable distribution and extremely low amount of fines,thus they have very low porosity,high bulk density and stable strength properties.

At the final stage,this granulation process makes the granules dried quickly and directly,therefore,there is no need to use additional dryer and other auxiliary equipment.

This granulation process is very flexible,requiring very small space.

The process doesn't need harsh environment,with little effects by the environment changes,even no effects.

Comparative to the traditional room temperature granulation process,the production cost control is apparently much lower,almost saving 50% or even more comprehensively.

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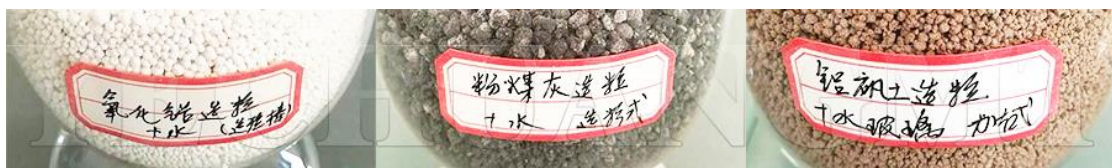
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Nowadays,this special granulation technology has been applied to the preparation of ceramsite proppants,bauxite,fly ash,carbon black,cat litter and other materials for granulation.



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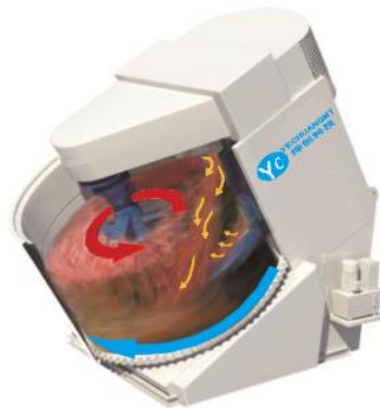
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Zirconia Granules	Fly Ash Granules	Bauxite Granules
Materials:Zirconia Powder+Water	Materials:Fly Ash(Pulverized Fuel	Materials:Bauxite(Aluminous
Mixer Rotor:Granulating Rods	Ash or Coal Ash)+Water	Soil)+Sodium Silicate(Water Glass)
	Mixer Rotor:Granulating Rods	Mixer Rotor:Mixing Blades

The unique structure and advanced working principles

With unique outline structure of 30° inclined angle mixing silo, mixing pan in clockwise rotation plus high speed rotating three-dimensional mixing tools in anticlockwise, our intensive mixers are adopted with world-leading mixing principles:

- ❖ When mixing under the strong mechanical shearing force , the inclined rotating mixing silo brings the material to the top, rolling of granules dropping under gravity and peeled off by the multi-purpose scraper, which primely realize the vertical mixing.
- ❖ The mixing tool can run variably, slow to fast for mixing ,granulating,increase of rolling energy .(i.e. the input of power into the mix can thus be controlled specifically,thus the granule sizes can be controlled accordingly)
- ❖ The separation between material move and mixing process allows the speed of the mixing tool variable within wide limits.
- ❖ The material of mixing bowl contacted with materials could all be SS 316,to prevent it from corrosion and to extend the lifespan of mixing bowl.



Thus it offers users the following significant advantages:

- Mixing processes and mixing speeds can be adjusted to suit the respective formula.
- The granulator is suitable for mixing and granulating.

This provides a cost-effective solution for the production of granules (Mixing, granulation, drying processes accomplished once in the same equipment and improving the thermal efficiency)

- High tool speeds allow
-dry basic materials to be homogenized optimally

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-microgranules to be formed after addition of liquids

- Low tool speeds allow bigger granules to be formed and rounded,granules up to 6mm possible
- Special tools enable high yields of fine granules to be obtained(e.g.0.2 to 0.8mm)
- Various sizes(5L to 3000L) with diverse materials of wear mixing tools and discharge ways optional.
- Mix temperatures of up to 100°C are possible
- Significant cost savings compared to thermal granulation and fluid-bed agglomeration

PRODUCT DETAILS



Part Name:Mixing Bowl

Brand: YECHUANGMT

Original: China(mainland)

Bottom,cover and side walls with smooth finished surfaces for easy cleaning.Individually designed to charge and discharge according to the product parameters and the conditions of installation.

Part Name:Lubrication Oil Pump

Brand: Tilorms

Original: China(Taiwan)

Applying Tilorms model RF-3 lubrication control system(made in Taiwan),monitoring the hydraulic pump and reducer oil temperature,oil level real-timely.



Part Name:Electric Motor

Brand: Siemens Beide

Original: Sino-Germany Joint Venture

The mixing rotor driving motor is at the back top of the mixer.Power requirement,speed and the type of power transmission are chosen in accordance with the particular application.

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Part Name:Hydraulic Pressure Pump Station

Brand: Kompass

Original: China(Taiwan)

We use Taiwan Kompass hydraulic pressure pump station to serve the oil cylinder.Normally, since the factors of safety on shipment,the oil will be empty when delivery.



PRODUCT FEATURES

- Short processing time ,low space requirement,economical construction cost
- Less wear compared to press agglomeration
- Granulating result and granulating quality remain unchanged even if only partial quantities are mixed, down to 30% of the nominal capacity
- Less structural maintenance with high energy saving
- Convenient maintenance with super long service life
- Continuous or batch-wise operation both available
- The granulator can be heated or cooled

MAIN PARAMETERS

Model Item		MX03T	MX05T	MX08T	MX09T
Mixing Bowl	Mixing Volume	10L/20KG	40L/65KG	75L/120KG	150L/240KG
	Silo Dimensions	Ø350*275	Ø500*360	Ø800*500	Ø900*700
	Inclined Angle	30°	30°	30°	30°
	Rotating Speed	36rpm	27rpm	32rpm	22rpm
	Driving Motor Power	1.1KW	1.5KW	4.5KW	5.5KW
Mixing Rotor	Rotor Dia.	180mm	280mm	350mm	450mm
	Rotating Speed	400rpm	120rpm	700rpm	750rpm
	Driving Motor Power	4KW	15KW	15KW	22KW

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Discharging Door	Discharging Way	Bowl Inclines to Discharge	Bowl Inclines to Discharge	Bowl Inclines to Discharge	Bowl Inclines to Discharge
	Pressure	70Kg/cm ²	70Kg/cm ²	70Kg/cm ²	70Kg/cm ²
	Driving Motor Power	0.75KW	0.75KW	2.2KW	2.2KW
Dimensions(L*W*H)mm		950*550*1750	1088*700*2020	1750*1000*2500	1800*1100*2800
Weight(KG)		900	1000	2600	3000

Innovative Design Respectively,Applied to All Industries

■ Ceramics



■ Refractories



■ Fertilizers



■ Abrasives



■ Welding Materials



■ Animal Feeds

