



# Anhui Yechuang Machinery Technology Co.,Ltd.

Tel: 0086-0555-6063866 Fax: 0086-0555-6063866

E-mail:sales@ahycmm.com WEB:http://www.ahycmt.com

Office ADD.:No.504,Taifang Road,Bowang District,Maanshan City,Anhui Pro.,China 243131

## YECHUANG MT High Temperature Granulation Process

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.

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



Zirconia Granules

Raw Materials:Zirconia  
Powder+Water  
Mixer Rotor:Granulating  
Rods

Fly Ash Granules

Raw Materials:Fly  
Ash(Pulverized Fuel Ash or  
Coal Ash)+Water  
Mixer Rotor:Granulating  
Rods

Bauxite Granules

Raw  
Materials:Bauxite(Aluminous  
Soil)+Sodium Silicate(Water  
Glass)  
Mixer Rotor:Mixing Blades

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### The unique structure and advanced working principles

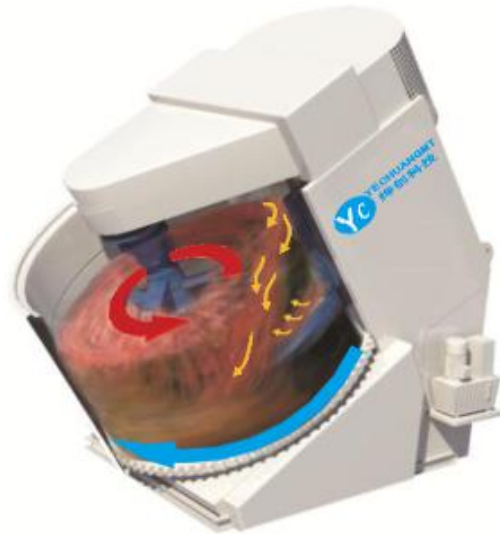
With unique outline structure of 30° inclined angle mixing silo, mixing pan in clockwise rotation plus high speed rotating three-dimensional mixing tools in anticlockwise, our intensive mixers are adopted with world-leading mixing principles:

1.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.

2.The mixing tool can run variably, slow to fast for mixing ,granulating,drying 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)

3.The separation between material move and mixing process allows the speed of the mixing tool to be variable within wide limits.



### Thus it offers users the following significant advantages:

1) Granulating processes and granulating speeds can be adjusted to suit the respective formula.

2) The granulator is suitable for mixing and granulating.

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

3) High toll speeds allow

- dry basic materials to be homogenized optimally
- microgranules to be formed after addition of liquids
- Easy blending of dusts + sludges into granular material

4) Low tool speeds allow bigger granules to be formed and rounded,granules up to 6mm possible

5) Special tools enable high yields of fine granules to be obtained(e.g.0.2 to 0.8mm)

6) Various sizes(5L to 3000L) with diverse materials of wear mixing tools and discharge ways optional.

7) Automatic wet cleaning is possible

8) Significant cost savings compared to thermal granulation and fluid-bed agglomeration

-If a binder is used: reduced consumption due to better distribution

-Volume reduction of fly ashes of up to 90 %

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**Model List**

<b>Model</b>		<b>MX05T</b>	<b>MX08T</b>	<b>MX09T</b>	<b>MX11</b>	<b>MX12</b>	<b>MX15</b>	<b>MX19</b>	<b>MX24</b>
<b>Item</b>									
<b>Mixing Silo</b>	Mixing Volume	40L/65KG	75L/120KG	150L/240KG	200L/300KG	300L/400KG	500L/800KG	1000L/1500K G	2000L/3000K G
	Silo Dimensions	Ø500*360	Ø800*500	Ø900*700	Ø1100*750	Ø1250*800	Ø1500*820	Ø1900*890	Ø2400*1200
	Inclined Angle	30°	30°	30°	20°	20°	20°	20°	20°
	Rotating Speed	27rpm	32rpm	22rpm	20rpm	22rpm	17rpm	11rpm	14rpm
	Motor Power	1.5KW	4.5KW	5.5KW	7.5KW	11KW	18.5KW	15KW	37*2KW
<b>Mixing Rotor</b>	Rotor Dia.	280mm	350mm	450mm	580mm	650mm	700mm	900mm	1200mm
	Rotating Speed	120rpm	700rpm	750rpm	600rpm	300rpm	500rpm	500rpm	200rpm
	Motor Power	15KW	15KW	22KW	22KW	37KW	75KW	75KW	220KW
<b>Discharging Door</b>	Discharging Way	Silo Inclines to Discharge	Silo Inclines to Discharge	Silo Inclines to Discharge	Hydraulic Central Discharge	Hydraulic Central Discharge	Hydraulic Central Discharge	Hydraulic Central Discharge	Hydraulic Central Discharge
	Pressure	70Kg/cm <sup>2</sup>	70Kg/cm <sup>2</sup>	70Kg/cm <sup>2</sup>	70Kg/cm <sup>2</sup>	70Kg/cm <sup>2</sup>	70Kg/cm <sup>2</sup>	70Kg/cm <sup>2</sup>	70Kg/cm <sup>2</sup>
	Motor Power	0.75KW	2.2KW	2.2KW	2.2KW	2.2KW	2.2KW	2.2KW	3.75KW

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### Main Features

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

### E.G. Our Granulation Production Line for Fertilizer



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### Innovative Design Respectively,Applied to All Industries

- Ceramics



- Refractories



- Iron Ore



- Fertilizers



- Animal Feeds



And other raw materials which need to be processed and granulated,such as concretes, proppant sand, alumina, recycling waste materials, desulfurization and denitration catalysts and so on.YECHUANG MT intensive mixing granulators could almost fulfil all the process needs respectively and cost-effectively.

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