



# Anhui Yechuang Machinery Technology Co.,Ltd.

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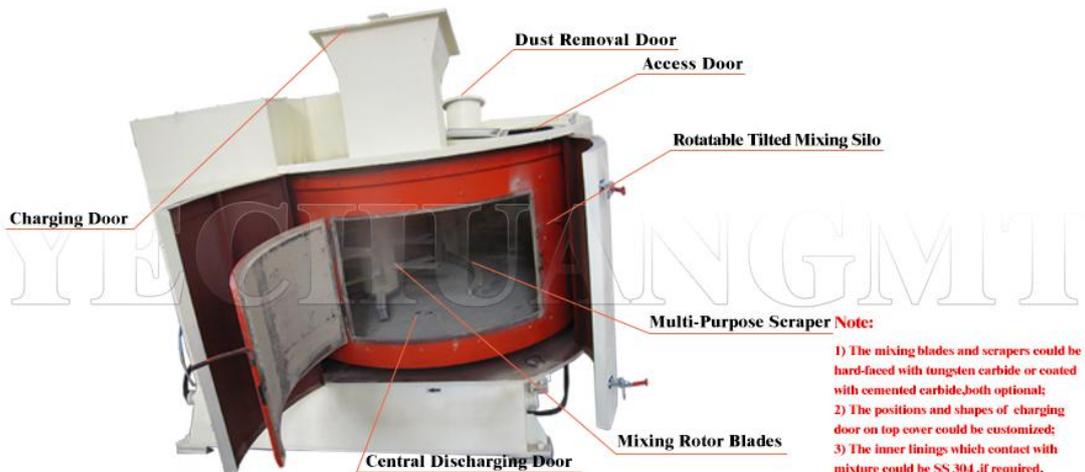
E-mail:sales@ahycmm.com WEB:http://www.ahycmt.com

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YECUANG MT intensive mixers are widely used in iron ore pellet field.With it's unique working principles and over-whelming prior mixing efficiency,the homogeneity of mixing could largely reduce bentonite consumption,increase the green ball strength and cut down the returning dosage.By using YECUANG MT intensive mixers,bentonite consumption can even lower to 0.6~0.8%.The combination of weighing sensors and hydraulic driving discharge door can ensure the same time and same homogeneity of the mixing materials in the mixing pan,which guarantees the quality uniformity of the finished products.



Ore dressing	Sinter mix preparation	Treatment of residues
Mixing and agglomeration systems for ore fines (ore concentrates from flotation, e.g. iron ore for pellet production for direct reduction or blast furnace feed)	Mixing and agglomeration systems for feeding the sintering belt - total sinter mix - ore fine fraction - filter dust plus ore fines	Recycling systems for residues (dust, sludge, mill scale, ...) for mixing, agglomerating, pelletizing, briquetting, extruding, pressing of bricks, ...
Pellets for - blast furnaces - direct reduction		For the thermal treatment - on sintering belts - in rotary kilns - in multiple hearth furnaces - in shaft furnaces



## Diverse Functions

Mixing , kneading , batching , slurring , dispersing , cooling , plasticizing , forming , deaeration ,

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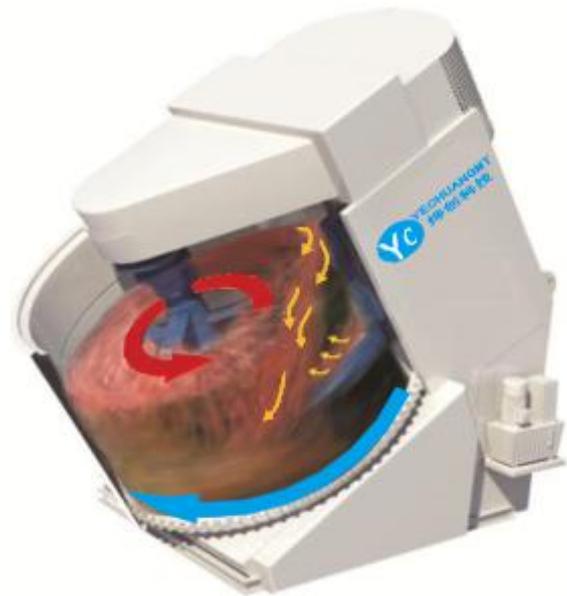
crushing , fibrillating , heating , agglomerating , granulating , drying , weighing , measuring , conveying



### 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, which 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,kneading,coating etc. (i.e. the input of power into the mix can thus be controlled specifically)
- 3)The separation between material move and mixing process allows the speed of the mixing tool variable within wide limits.



### This mixing principle enables:

- The mixing tool can be run variably, at low or high speed
- The input of power into the mix can thus be controlled specifically
- High tool speeds allow e. g. dusts and sludges to be blended to granules, without material caking at the mixing tool
- Medium tool speeds allow high-quality mixtures to be produced
- Low tool speeds allow granules to be gently mixed or coated with additional substances
- One and the same mixer is suitable for mixing, granulating, coating, kneading

Further Advantages:

- The sintering quality increases: higher strenghts, higher permeability

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- Cost advantages: less coke requirement, the capacity of the sintering system increases
- Less binders are necessary if ore fines are treated
- Processing ore fines, replacement of wear parts is required not before a system 's running time of 9 months
- Distinctly fewer repairs due to wear compared to mixers
- Significantly higher availability compared to cylindrical mixers

### Main Features

- 1) The maximum uniformity of material mixing in minimum time.
- 2) Dry mixing: Distinctly fewer repairs due to wear compared to cylindrical mixers
- 3) Mixing result and mixing 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) High effective volume,small working area,economical construction cost
- 7) Continuous or batch-wise operation both available
- 8) Since there is only one mixing tool,easier to clean

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### Model List

Model		MX05T	MX08T	MX09T	MX11	MX12	MX15	MX19	MX24
Item									
<b>Mixing Silo</b>	Mixing Volume	40L/65KG	75L/120KG	150L/240KG	200L/300KG	300L/400KG	500L/800KG	1000L/1500KG	2000L/3000KG
	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				
	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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