



## Anhui Yechuang Machinery Technology Co.,Ltd.

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YECHUANG MT intensive mixers are widely used in iron ore pellet field. With its 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 YECHUANG 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

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)

Pellets for

- blast furnaces
- direct reduction

Sinter mix preparation

Mixing and agglomeration systems

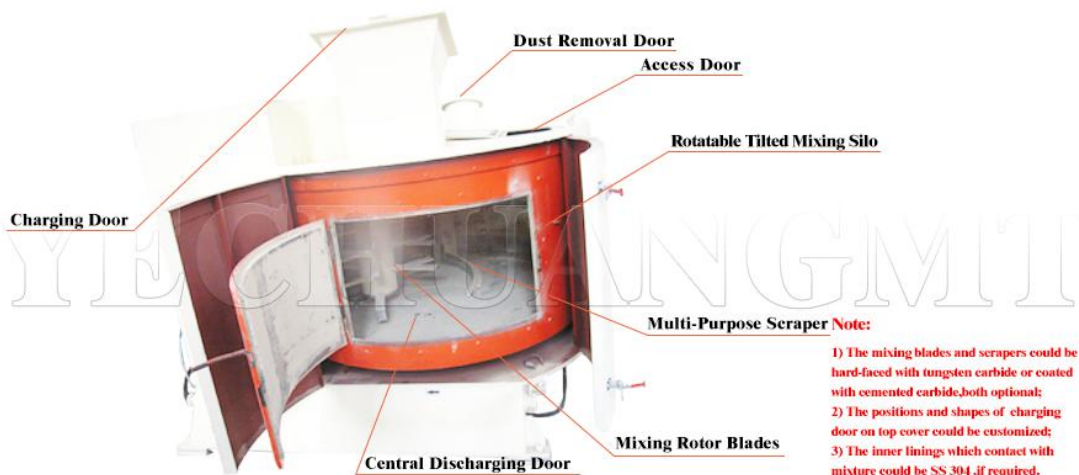
- for feeding the sintering belt
- total sinter mix
- ore fine fraction
- filter dust plus ore fines

Treatment of residues

Recycling systems for residues (dust, sludge, mill scale, ...) for mixing, agglomerating, pelletizing, briquetting, extruding, pressing of bricks, ...

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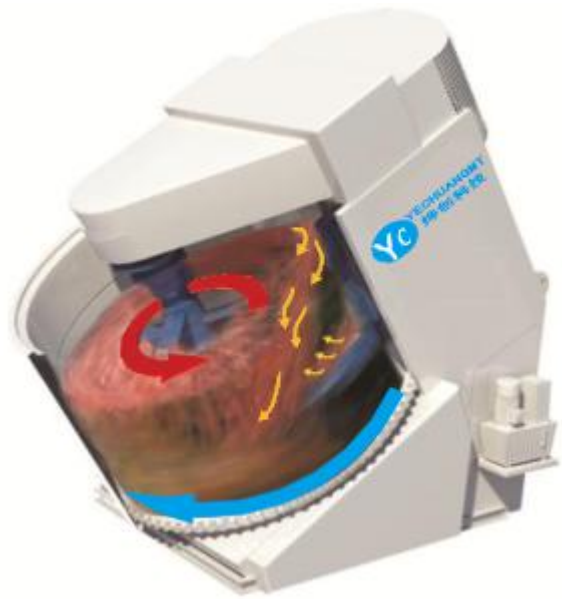
crushing , fibrillating , heating , agglomerating , granulating , drying , weighing , measuring , conveying



### 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 Item		MX05T	MX08T	MX09T	MX11	MX12	MX15	MX19	MX24
Mixing Silo	Mixing Volume	30L/60KG	75L/120KG	120L/200KG	200L/300KG	300L/400KG	500L/650KG	1000L/1300KG	2000L/3000KG
	Silo Dimensions	Ø500*360	Ø800*500	Ø900*550	Ø1100*750	Ø1250*800	Ø1500*820	Ø1900*890	Ø2400*1050
	Inclined Angle	30°	30°	30°	20°	20°	20°	20°	20°
	Rotating Speed	27rpm	29rpm	29rpm	20rpm	19rpm	17rpm	12rpm	15rpm
	Motor Power	2.2KW	4KW	5.5KW	7.5KW	11KW	11KW	15KW	45KW
Mixing Rotor	Rotor Dia.	280mm	360mm	430mm	580mm	650mm	700mm	900mm	1100mm
	Rotating Speed	800rpm	700rpm	700rpm	600rpm	600rpm	500rpm	500rpm	500rpm
	Motor Power	15KW	15KW	22KW	22KW	37KW	55KW	75KW	160KW
Discharging Door	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	1.5KW	1.5KW	2.2KW	2.2KW	3.75KW	3.75KW	3.75KW
Dimensions(L*W*H)		1088*700*2020	1750*1000*2500	1800*1100*2800	2100*1500*2100	2200*1700*2300	2800*1970*2600	3300*2400*2900	3900*2920*2500

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