



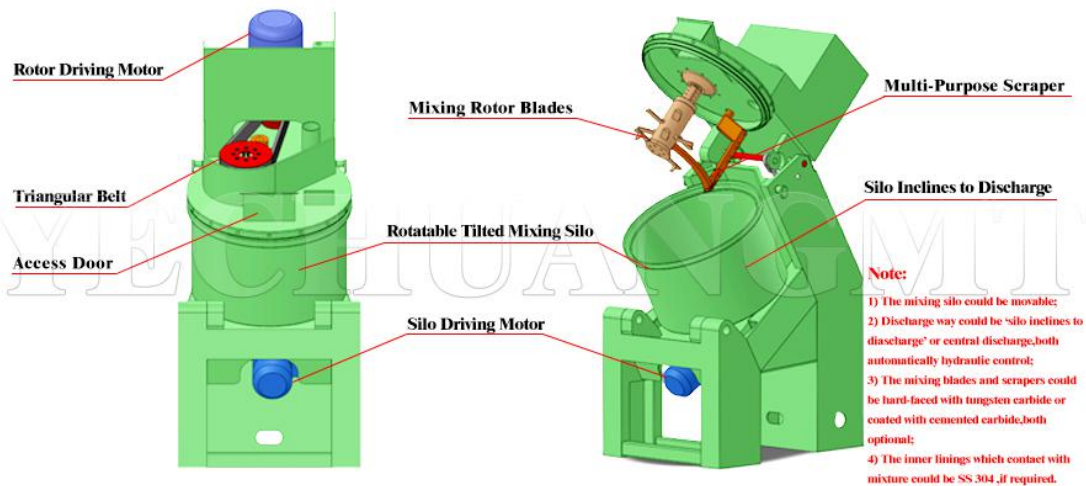
Anhui Yechuang Machinery Technology Co.,Ltd.

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Many experimental materials in stage of mixing process demand an approximate homogeneity,which usually is on the basis of empirical values.With the higher demands to material quality and processing technology,it is impossible to resort to the empirical values.Given this,YECHUANG MT's programmable control system is designed to help users to measure and log all the parameters(rotating speeds of mixing pan and tools,temperatures of the mix,power input into the mix etc.).When in operation,all machine parameters could be recorded and displayed on a digital touch screen.The user could repeat the same formula according to the recorded experimental data even in the same steps.



The mixer is operated via a touch screen and via additional pushbuttons easy to operate.

- The mixer itself is distinguished by a rotating inclined mixing pan,which transports the material to the mixing tool.
- The separation between material transport (by the mixing pan) and distributive and dispersive mixing (by the mixing tool) allows,in contrast to other mixing systems,the mixing tool to be run at variable speeds.
- Further more,it is possible to operate at varying speeds during one and the same mixing process.A higher power input and thus the higher input of shearing forces into the mix,is correlating with higher tool



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speeds. When ultrafine materials are used that trend to agglomerate, a higher input of shearing forces has a positive effect on disagglomeration and thus improves the mixing result. In most cases, agglomerates are not completely disintegrated in simple mixers, which causes huge variations in production quality.



Take **water coal paste** as an example, the CSIRO could show that with the suitable mixing technology by means of various speeds, the time for mixing water coal paste can be reduced from 10mins in a planetary mixer to 5mins (from adding coal granules on). Interestingly, it was also possible to simulate the mixing quality of a planetary mixer in YECHUANG MT intensive mixer by mixing at a very slow tool speed (about 2.3m/s).



The example also demonstrated that a tool speed of approximately 10m/s yields an optimal slump flow. Based on the knowledge, several clients of YECHUANG MT are now using its intensive mixers with process data control for their research and development activities in diverse fields. Comparative studies with double-shaft mixers show that the wet mixing times can be reduced by half thanks to higher tool speeds.

SPECIFICATIONS FOR MX SERIES INETNSIVE MIXERS

Model		MXo3T	MXo5T	MXo8T	MXo9T
Item	Mixing Volume	10L/20KG	40L/65KG	75L/120KG	150L/240KG
Mixing Silo	Silo Dimensions	Ø350*275	Ø500*360	Ø800*500	Ø900*700

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	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
Discharging Door	Discharging Way	Silo Inclines to Discharge	Silo Inclines to Discharge	Silo Inclines to Discharge	Silo 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

Innovative Design Respectively,Applied to All Industries

- Ceramics



- Refractories

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- Fertilizers



- Carbon



- Abrasives



- Welding Materials



- Animal Feeds



And other raw materials which need to be processed and prepared,such as concretes,dry mortar,lithium-ion batteries,recycling waste materials, desulfurization and denitration catalysts and so on.YECHUANG MT intensive mixers could almost fulfil all the process needs respectively and cost-effectively.

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