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*Production may change due to technical progress
subject may be modified without notice*



CO-NELE MACHINERY CO., LTD.



CMP
Planetary
Mixer



**360° Mixing Without Dead Angles /
Industrial Mixing Solutions**



**High efficiency and high quality,
low maintenance**



Robust & Durable



Uniform Mixing



Reliable & Stable

COMPANY PROFILE

Founded in 2004, CO-NELE Machinery Co., Ltd. is a high-tech enterprise specializing in the R&D, manufacturing, and sales of mixing and granulation equipment.

Co-Nele with 3 production bases, totaling 100,000 square meters of modern factory space. In terms of production processes, Co-Nele advanced manufacturing technologies such as international robotic welding, 10,000-watt laser cutting, and fully automated painting, providing a solid guarantee for 100% reliable product quality.

Co-Nele is a recognized technology leader in the industry, Co-Nele company empowers scientific research and has established in-depth industry-university-research collaborations with over 60 top universities in China, And has already obtained over 100 national patents.

Co-Nele focusing on complete production lines, high-end customization, and experimental applications of new materials. exported to over 80 countries and regions worldwide, including Europe, the Americas, Asia, Africa, and Oceania.



TWO

NATIONAL
STANDARDS

THREE

PRODUCTION
BASES

20+

YEARS OF
EXPERIENCE

60+

SCIENTIFIC
PARTNERSHIPS

100+

PATENTS

10000+

GLOBAL
USERS

ENTERPRISE QUALIFICATIONS / PATENT CERTIFICATES

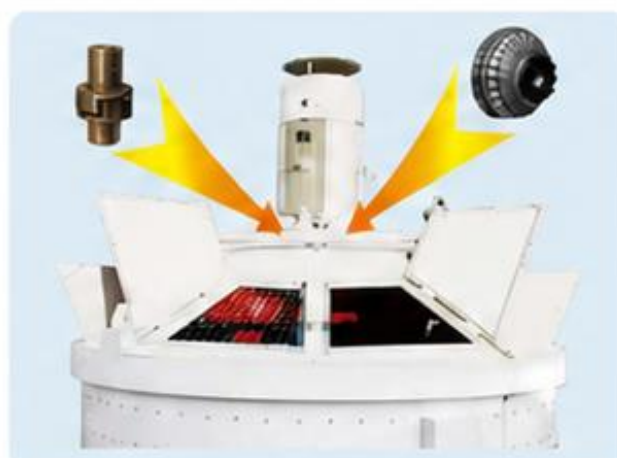
1. Shandong province manufacturing industry single champion enterprise.
2. 2023 Qingdao's first batch of industrial empowerment digital demonstration workshops.
3. National high-tech enterprise.
4. Science and Technology Award of Shandong Province & Qingdao.
5. Qingdao Enterprise Technology Center, Industrial Design Center.
6. Specialization, refinement, differentiation, "innovation" middle and small-sized enterprises of Shandong province.
7. The first company who got CE certificate in the same industry in China.
8. Qingdao Private Leading Benchmark Enterprise.
9. A-level unit of Mixing Machine Research Institute.
10. The largest production base planetary mixer in China.
11. With the First entirely oil-immersed gear box equipped in planetary type mixer in China.
12. China non-standard mixing equipment design research and manufacture center.

CMP MIXER CONFIGURATION

CMP mixer configuration

1 GEARING SYSTEM

Driving system consists of motor and hardened surface gear which is specialized designed by CO-NELE(patented). Flexible coupling and hydraulic coupling(option) connects motor and gearbox. The gearbox is designed by CO-NELE (completely independent intellectual property rights owned) absorbing European advanced technology. The improved model has lower noise, longer torque and more durable. Even in strict production conditions, the gearbox can distribute power effectively and evenly to each mix end device, ensuring normal operation, high stability and low maintenance.



2 MOTION TRACK

The revolution and rotation speed of the blades have been extensively studied and tested to give the mixer a high output without causing the segregation of materials with different grain size and weight. The movement of the material inside the trough is smooth and continuous. As shown in the picture, the blades track covers the whole bottom of the trough after a cycle.



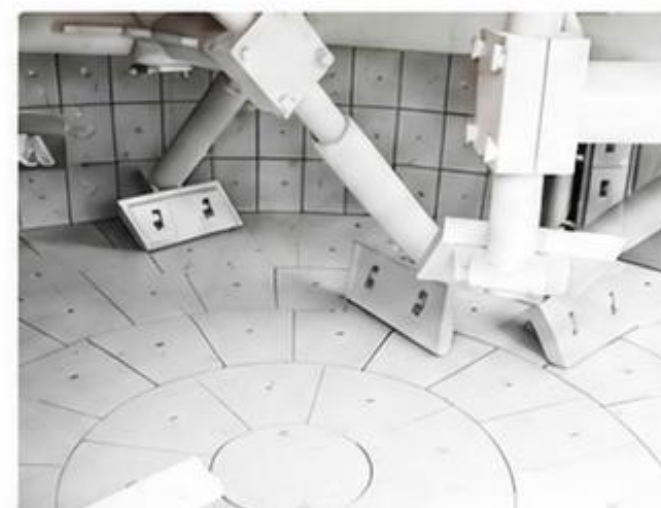
3 OBSERVING PORT

There is an observing port on the maintaining door. You can observe the mixing situation without cutting off power.



4 MIXING DEVICE

Compulsory mixing is realized by composite moves of extruding and overturning driven by rotating planets and blades. Mixing blades are designed in parallelogram structure(patented), which can be turned 180° for reuse to increase service life. Specialized discharge scraper has been designed according to discharge speed in order to increase productivity.





5 DISCHARGING DEVICE

According to the different demands of customers, the discharging door can be opened by hydraulic, pneumatic or by hands. The number of the discharging door is three at most. And there is special sealing device on the discharging door to ensure the sealing reliable.



6 THE HYDRAULIC POWER UNIT

A special designed hydraulic power unit is used to provide power for more than one discharging gates. On emergency, these discharging gates can be opened by hand.



7 MAINTAINING DOOR AND SECURITY DEVICE

In order to improve the security of using the product, reliable high-sensitive security switches are used in the maintaining door to make the maintaining work safe and convenient.



8 WATER DEVICE

Overhead structure is used to water (patent products). It solves the problem of residual additive and water in pipe. Avoid the customer loss in formula changing. The nozzle which adopts spiral solid cone nozzle, has a fine uniform atomization effect, large covering area and make the material more uniform mixing.



9 EXPERIMENTAL CENTER

We set a testing center for all kinds of material to meet customer's different materials mixing.



CMP LABORATORY PLANETARY MIXER

CMP laboratory planetary mixer



- 1 Suitable for precision matching experiment, mixing station formula experiment, new material experiment, etc.
- 2 Suitable for universities, research institutes, laboratories, etc.
- 3 Material of mixing barrel can be customized according to different experimental materials, with high flexibility.
- 4 Mixer mode can be customized high-end according to different properties of materials.
- 5 Variable-frequency motor can be selected to realize stepless speed regulation and frequency conversion stirring.
- 6 The equipment is safe and reliable with small size, low noise and high environmental performance.
- 7 Designed as a wheeled structure, the machine is easy to move.
- 8 Unloading device adopts manual and automatic forms, with flexible switch and clean discharging.
- 9 The model has 10L, 50L, 100L, 150L capacity specifications to choose from.

CMP MIXER TECHNICAL DATA

Type	CMP50	CMP100	CMP150	CMP250	CMP330	CMP500	CMP750	CMP1000
Output capacity (L)	50	100	150	250	330	500	750	1000
Input capacity (L)	75	150	225	375	500	750	1125	1500
Output weight (kg)	120	240	360	600	800	1200	1800	2400
Mixing power (kW)	3	5.5	7.5	11	15	18.5	30	37
Discharging power (kW)	Pneumatic (suitable for powder material)							
Planet mixing arm	1/2	1/2	1/2	1/2	1/2	1/2	1/3	2/4
Paddle (qty)	1	1	1	1	1	1	1	1
Discharging paddle(qty)	1	1	1	1	1	1	1	1
Weight (kg)	700	1100	1300	1500	2000	2400	3900	6200
Lifting power (kW)	-	2.2	2.2	3	4	4	7.5	11
Dimension (mm)	L	950	1670	1670	1860	1870	2230	2890
	W	790	1460	1460	1650	1870	2080	2602
	H	1200	1450	1620	1780	1855	1880	2220

Type	CMP1250	CMP1500	CMP2000	CMP2500	CMP3000	CMP4000	CMP4500	CMP5000
Output capacity (L)	1250	1500	2000	2500	3000	4000	4500	5000
Input capacity (L)	1875	2250	3000	3750	4500	6000	6750	7500
Output weight (kg)	3000	3600	4800	6000	7200	9600	10800	12000
Mixing power (kW)	45	55	75	90	110	160	200	250
Discharging power (kW)	Pneumatic (suitable for powder material)							
Planet mixing arm	2/4	2/4	3/6	3/6	3/9	3/9	3/9	3/9
Paddle (qty)	1	1	1	1	1	1	1	1
Discharging paddle(qty)	1	1	2	2	2	2	2	2
Weight (kg)	6700	7700	9500	11000	12000	16500	17500	18500
Lifting power (kW)	15	15	22	30	37	-	-	-
Dimension (mm)	L	3060	3060	3230	3625	3900	4560	4560
	W	2760	2760	2902	3230	3550	4150	4150
	H	2305	2305	2470	2630	2695	3200	3930



CMPS MIXER CONFIGURATION

CMPS mixer configuration

1 MIXING DEVICE

Mixing blades are designed in parallelogram structure(Patented), which can be turned 180° for reuse to increase service life. Specialised discharge scraper has been designed according to discharge speed in order to increase productivity.



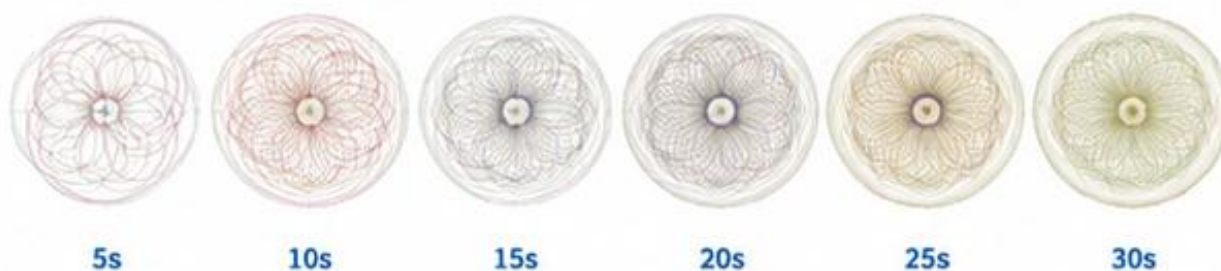
Mixing Mode 1



Mixing Mode 2

2 MOTION TRACK

The revolution and rotation speed of the blades have been extensively studied and tested to give the mixer a high output without causing the segregation of materials with different grain size and weight. The movement of the material inside the trough is smooth and continuous. As shown in the picture, the blades track covers the whole bottom of the trough after a cycle.



CMPS MIXER TECHNICAL DATA

Type	CMPS100	CMPS150	CMPS250	CMPS330	CMPS500	CMPS750	CMPS1000
Output capacity (L)	100	150	250	330	500	750	1000
Output weight (kg)	120	180	300	395	600	900	1200
Mixing power (kW)	7.5	11	15	18.5	22	37	45
Discharging power (kW)	Pneumatic (suitable for powder material)						
Planet mixing arm	2	2	2	2	2	2	2
Main/Fly-cutter planet(n)	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Paddle(n)	1	1	1	1	1	1	1
Discharging paddle(n)	1	1	1	1	1	1	1
Mixer weight (kg)	1400	1600	1800	2000	2500	4700	6200
Lifting power(kW)	2.2	2.2	3	4	4	7.5	11
Main dimensions(mm)	L	1664	1664	1856	1862	2220	2581
	W	1453	1453	1648	1850	2071	2336
	H	1487	1712	1817	1895	1935	2245

Type	CMPS1500	CMPS2000	CMPS2500	CMPS3000	CMPS4000	CMPS4500	CMPS5000
Output capacity (L)	1500	2000	2500	3000	4000	4500	5000
Output weight (kg)	1800	2400	3000	3600	4800	5400	6000
Mixing power (kW)	75	90	110	132	200	250	315
Discharging power (kW)	Pneumatic (suitable for powder material)						
Planet mixing arm	2	3	3	3	3	3	3
Main/Fly-cutter planet(n)	1/1	2/1	2/1	2/1	2/1	2/1	2/1
Paddle(n)	1	1	1	1	1	1	1
Discharging paddle(n)	1	2	2	2	2	2	2
Mixer weight (kg)	8000	9000	11500	12000	17500	19000	20500
Lifting power(kW)	15	22	30	37	-	-	-
Main dimensions(mm)	L	3223	3625	3893	3893	4562	4562
	W	2902	3230	3550	3550	4150	4150
	H	2470	2695	2875	3085	3200	3625

CMPH HEAVY DUTY PLANETARY MIXER

CMPH heavy duty planetary mixer



CMPH MIXER TECHNICAL DATA

Model	CMPH330	CMPH500	CMPH750	CMPH1000	CMPH1500	CMPH2000
Output capacity (L)	330	500	750	1000	1500	2000
Output weight (kg)	500	750	1125	1500	2250	3000
Mixing power (kW)	22/30	30/37	37/45	45/55	55/75	75/90
Planet mixing arm	1/2	1/2	1/3	2/4	2/4	3/6
Paddle (qty)	1	1	1	1	1	1
Discharging paddle (n)	1	1	1	1	1	2

OPTIONAL ITEMS

1 Skip hoist and weighing system

Planetary mixer equipped with skip hoist and weighing system. The inlet will open and close automatically when skip hoist lift to the inlet or descend (Patent), preventing dust from coming out of mixer to a result of Environmental, Cement scale and water scale (Include precision measurement) are designed very reasonably. Weighing is more accurate.



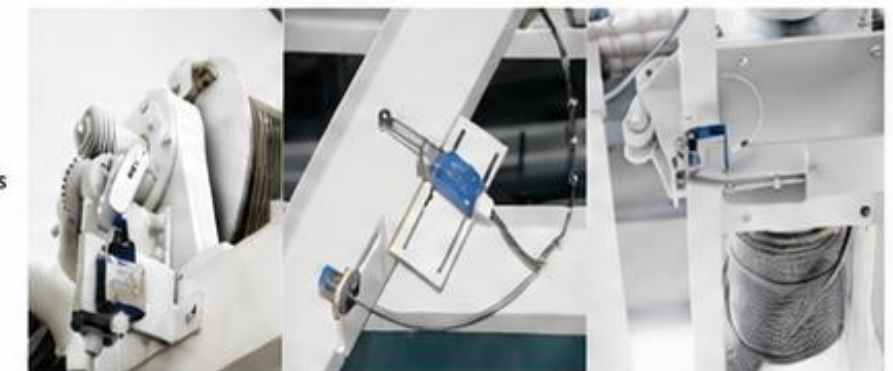
2 Environment-friendly anti-block feeding device

Specially designed environment-friendly anti-block feeding device(patented). The design of outer slide rail prevents the inlet gate from blocking and leads to better sealing.



3 The security device of skip hopper

The security device of skip hopper safeguards against head-clashing when the hopper is climbing up.





4 HIGH PRESSURE WASHING

High pressure washing

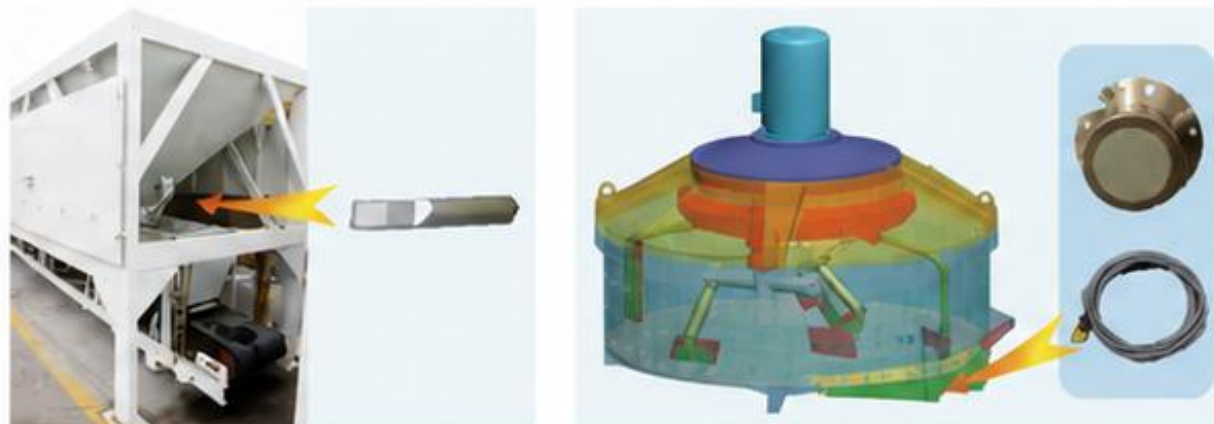
Automatic high-pressure cleaning system, the use of rotating high-pressure nozzle within a few minutes, stirring drum wall, mixing tools, the mixing tube to cover thoroughly cleaned. Greatly improve the cleaning effect, reducing cleaning time, reduce labor intensity and improve the working environment.



5 TEMPERATURE AND MOISTURE SENSOR

Temperature and moisture sensor

High precision and dynamical measuring supplies accurate value of temperature and moisture, which can achieve better performance of the mixture.



CONTROL SYSTEM

We provide two modes of control system. The first mode consists of industrial computer, weighers, control cabinet and high voltage cabinet. The second mode is made up of PLC, touch screen, weighers, and control cabinet. Both modes adopts man-machine interface, menu options, full automatic control of material ratio. Multiply display of different working process makes it easy to monitor and manage production. Easy operation owes to the beautiful outline design and humanized control method.

The control system has a wide application. Each weigher signal collected by independent weighing instrument, transferred by serial communications to specialize computer control board collecting external digital signals and realizes automatic production. High precision, strong anti-jamming capability. Besides, customized services are provided.



SERVICES



SERVICE BEFORE SALES

- Give advice to customer
- Assist customer to choose the right model
- Fabricate according to customer's requirement
- Train operators for customer
- Technology consulting support for special material mixing
- Supply a suitable technical proposal



SERVICE IN SALES

- Transportation
- Inspection
- Introduce service system to customers



SERVICE AFTER SALES

- Assist customer make the construction scheme
- Machine install and test
- Site trouble clearing
- Technical exchange
- Free hotline: 400-661-6566



VALUE ADDED SERVICE

- Overall process follow-up service
- Regular visit inspect
- Periodic maintenance standard made for customer

SERVICE PROMISE



APPLICATIONS



Concrete Pipe



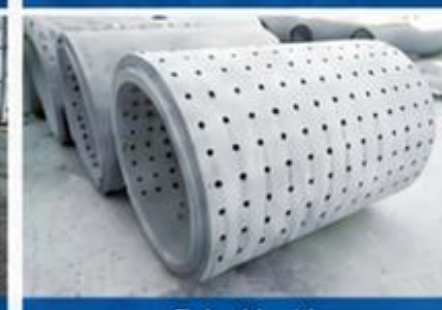
Block



Precast Concrete



Railway Sleeper



Tube Mould



Metro Segment



Artificial Stone



Refractory Material



Dry Mortar



PC Components



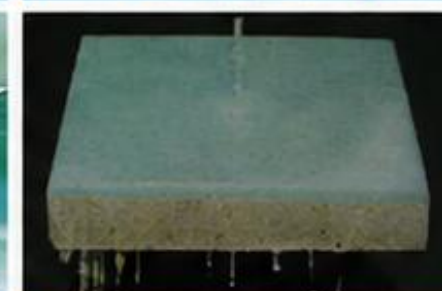
Landscape Products



Paver



Ceramics



UHPC



Commercial Concrete



PROJECTS

