



科尼乐机械设备有限公司
CO-NELE MACHINERY CO., LTD.

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 **CO-NELE 科尼乐**
CO-NELE MACHINERY CO., LTD.



CR / CRV
强力混合机

工业原料混合/造粒制备技术领航者

Leading Mixing /Granulating Technology

高质量、高效率、低维护

High efficiency and high quality, low maintenance



搅动梦想 凝结友谊
Mixing Dream Concreting Friendship

公司简介 Company profile

科尼乐机械设备有限公司成立于2004年,是一家专注于混合、造粒成型设备研发、制造与销售的高新技术企业。凭借超过20年的行业深耕,公司拥有深厚的技术积淀与历史底蕴。

公司实力雄厚,拥有三大生产基地,总计10万㎡的现代化厂区,这不仅奠定了其强大的规模化制造基础,也确保了行业领先的订单交付能力。在生产工艺上,科尼乐机械集成国际机器人焊接、万瓦激光切割、全自动涂装等先进制造技术,为实现产品的100%可靠质量提供了坚实保障。

科尼乐机械是业界公认的技术领军者,荣获国家高新技术企业、山东省“专精特新”企业,山东省科学技术进步奖,并被认定为制造业单项冠军企业,彰显了其在混合机械领域的专业领先地位。公司始终秉承“一切以客户为中心”的理念,为科研赋能,公司与清华、山大、浙大、同济等国内60余所顶尖高校开展深入的产学研合作,这充分体现了行业对科尼乐品牌与技术的高度认可。公司注重新材料、新工艺的研发与科技成果转化,已拥有100余项国家专利。

科尼乐机械定位于行业高端市场,业务聚焦于整厂生产线、高端定制以及新材料实验应用领域。其产品以优异的品质畅销全国,并远销至欧洲、美洲、亚洲、非洲及大洋洲等全球80多个国家和地区。

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.



两项

国家标准

2 National Standards

三大

生产基地

3 Factories

20年

行业积淀

20 Years of Experience

60+

科研院所合作

Partnerships with 60+ Research Institutes

100+

专利技术

100+ Patents

10000+

全球用户

10000+ Global Users

企业资质/专利证书 Enterprise qualification/Patent certificates

- 1、山东省制造业单项冠军企业

2、2023青岛首批工业赋能数字化示范车间

3、国家级高新技术企业

4、山东省科学技术奖、青岛市科学技术奖

5、青岛市企业技术中心、工业设计中心

6、山东省“专精特新”企业

7、国内同行业首家通过欧盟CE认证

8、青岛市民营领军标杆企业

9、混合搅拌设备研究院A级单位

10、中国最大的搅拌机生产基地

11、国内第一台全油浴润滑方式免维护的集成行星式减速机。

12、中国非标搅拌设备的设计研发制造中心
- 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.

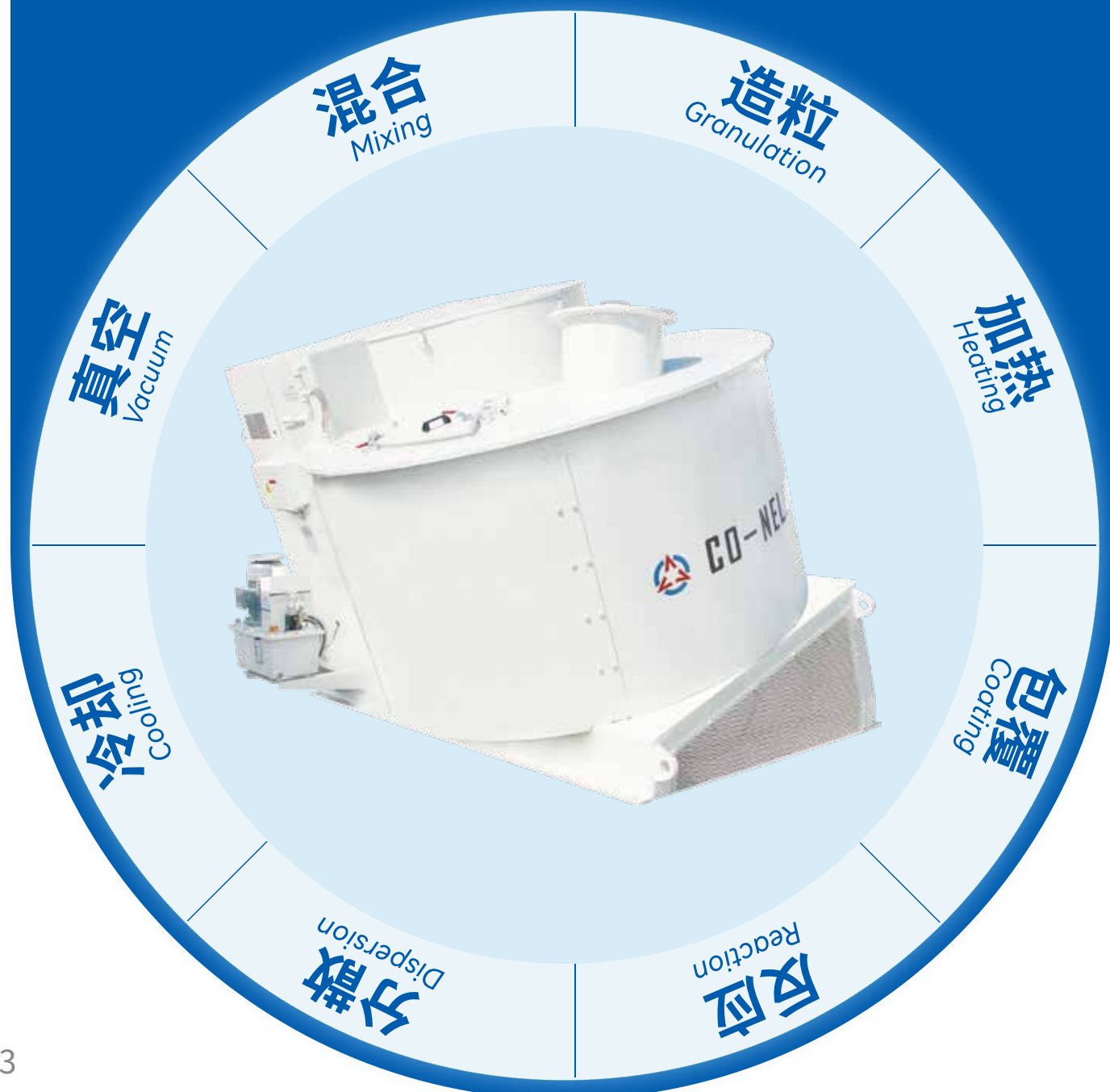
11 . With the First entirely oil-immersed gear box equipped in planetary type mixer in China.

12 . China non-standard mixing equipment design research and manufacture center.

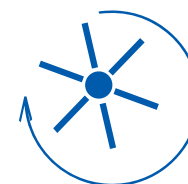
强力混合机

CR/CD Intensive Mixer

- 独特混合原理可确保物料100%都参与混合, 在最短的混合时间内获得最佳的产品质量, 用于批量操作。
- 混合装置在高速转动的同时, 筒体由减速机驱动转动, 并且搅拌筒倾斜一定角度, 实现三维搅拌模式, 使物料翻转更剧烈, 混合更均匀。
- 混合方向分顺向和逆向。
- The unique mixing principle can ensure that 100% of the materials are mixed, and the best product quality can be obtained in the shortest mixing time for batch operation.
- While the mixing device is rotating at high speed, the cylinder is driven by the reducer to rotate, and the mixing cylinder is inclined at a certain angle to realize a three-dimensional mixing mode, which makes the material turn more violently and mix more evenly.
- The mixing direction is divided into forward and reverse.



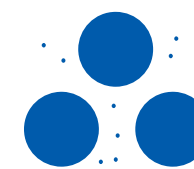
CO-NELE 科尼乐



混合
Mixing



造粒
Granulating



包覆
Coating



匀浆
Slurry

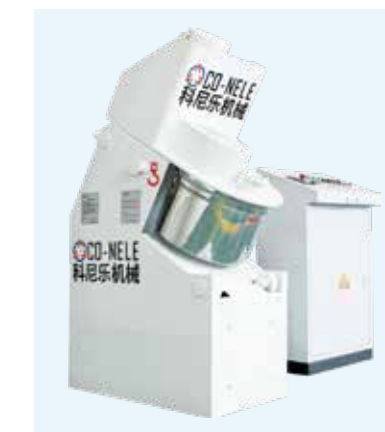


纤维化
Fibrification

CR系列实验室混合机/造粒机

CR Series Laboratory Mixer&Granulator

- CR系列的混合机大小从5升到50升可选;
- 灵活的高性能混合系统;
- 满足不同行业不同物料的制备。
- CR series Intensive mixer sizes from 5 to 50 liters are available.
- Flexible high-performance mixing system.
- The multi-functional mixing system can be used for many different applications.



CEL系列实验室混合机/造粒机

CEL05/10 Laboratory Mixer&Granulator

- CEL系列的混合机大小从1升至10升可选;
- 适用于研究、开发和小规模生产领域;
- 试验结果可按比例进行工业化放大。
- CEL series Intensive mixer sizes from 1 to 10 liters are available.
- For challenging tasks in the fields of research, development and small-scale production.
- Industrial scale-up of test results is possible.



CEL实验室混合机/造粒机

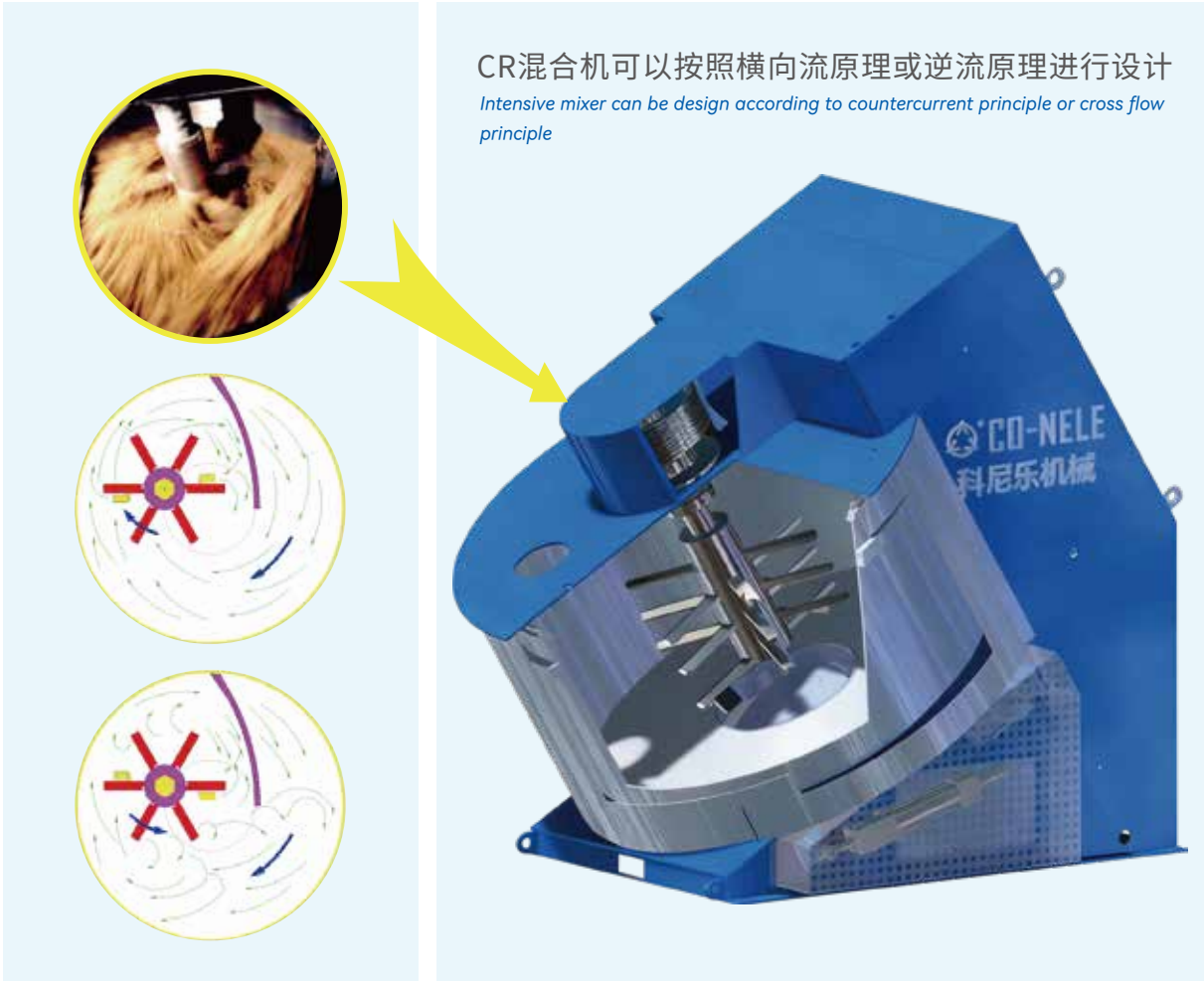
CEL laboratory Mixer&Granulator

- 可调倾角 0°、10°、20°和 30°;
- 触摸屏操作和显示: 调节旋转方向上无极调节工具速度, 旋转速度(搅拌盘)、功率(搅拌工具)温度、时间。
- Adjustable inclination angles 0°, 10°, 20° and 30°.
- Touch screen operation and display: Adjust the tool speed in the direction of rotation, rotation speed (stirring plate), power (stirring tool), temperature, and time.



容量: 200ml-2000mL

引导未来的搅拌原理 *Lead to the future mixing*



CR系列混合机杰出的制备效果通过以下三点得到保证

Intensive mixer can guarantee the following three points

- CR系列混合机使物料槽一起旋转,与此同时,使在离心位置上同方向旋转的搅拌器产生可以剪断物料的力量。在复杂的流动中形成的速度差,实现了物料微小细密的搅拌效果。
- 在旋转的物料槽中,物料被送至刮板臂,在刮板叶片的作用下翻转,促进了上下方向的宏观混合。
- 刮板叶片不断地剥离那些还留在槽底和边缘的物料送至搅拌器,在搅拌周期结束时促进物料在短时间内排出。
- *The mixer can drive the trough move together. At the same time, the mixing device can cut material. In the complex mixing , can get very good mixing effect.*
- *In the turning mixing trough, material be pushed the scraper. Then turn over. That promote the mixing up and down.*
- *Mixing blade can strip the material at the bottom and side of mixer. Can shorten the discharging time.*

混合机技术参数表 *Technical data*

型号Type	混合量Mixing volume (L)	卸料方式Discharging	加热Heating	真空Vacuum	制冷Cooling	批次Batch
CEL1s	0.1-0.5	拆装式	■	■	■	■
CEL01	0.2-1	拆装式	■	■	■	■
CEL1plus	0.8-2	拆装式	■	■	■	■
CEL05	3-8	升降式	■	■	■	■
CEL10	5-15	升降式	■	■	■	■
CR02F	3-8	翻转式	■	■	■	■
CR04F	5-15	翻转式	■	■	■	■
CR05F	15-40	翻转式	■	■	■	■
CR08F	50-75	翻转式	■	■	■	■
CR09F	100-150	翻转式	■	■	■	■
CR05	15-40	底部中心	■	■	■	■
CR08	40-75	底部中心	■	■	■	■
CR09	100-150	底部中心	■	■	-	■
CRV09	150-225	底部中心	■	■	-	■
CR11	150-250	底部中心	■	■	-	■
CRV11	250-375	底部中心	■	■	-	■
CR12	250-350	底部中心	■	■	-	■
CRV12	350-450	底部中心	■	■	-	■
CR15	500-750	底部中心	■	■	-	■
CRV15	600-900	底部中心	■	■	-	■
CR19	750-1125	底部中心	■	■	-	■
CRV19	1000-1500	底部中心	■	■	-	■
CR22	1000-1500	底部中心	■	■	-	■
CRV22	1250-1800	底部中心	■	■	-	■
CR24	1500-2250	底部中心	■	■	-	■
CRV24	2000-3000	底部中心	■	■	-	■
CR29	2500-4500	底部中心	■	■	-	■
CRV29	3500-5250	底部中心	■	■	-	■
CR33	3500-5250	底部中心	■	■	-	■
CRV33	4500-7000	底部中心	■	■	-	■

连续式强力混合机技术参数表 *Technical data*

型号Type	混合量Mixing volume (L)	生产率Productivity (t/h)	连续Continuous	加热Heating
CR05L	10-50	1-3	■	■
CR08L	15-80	3-5	■	■
CR09L	100-150	5-10	■	■
CR11L	250-350	5-25	■	■
CR15ML	350-600	10-50	■	■
CR15L	500-1000	20-70	■	■
CR19L	1000-1500	30-100	■	■
CR20L	1500-2000	40-130	■	■
CR24L	2000-3000	50-200	■	■
CD29L(2轴)	4000-6000	150-500	■	■
CD33L(2/3轴)	6000-7000	200-600	■	■
CD40L(3/4轴)	10000-12000	800-1000	■	■

因技术不断升级,具体参数以技术方案为准。



混合造粒机 Granulating & Pelletizing Mixers

- 两步制备过程，混合及造粒只需一台混合机。
- 快速高效的在最短时间内制备出所需的颗粒。
- 使用范围广，满足不同行业、多种物料的混合制粒要求。
- 型号齐全，从小型试验机到大型工业批量生产，均可满足要求。
- In a two-step preparation process, only one mixer is needed for mixing and granulation.
- Quickly and efficiently prepare the required particles in the shortest time.
- It has a wide range of uses and meets the mixing and granulating requirements of different industries and various materials.
- The models are complete, ranging from small testing machines to large-scale industrial mass production, which can meet the requirements.



成球率高
粒径大小可调控

High ball forming rate
The particle size can be controlled.



环保
造粒过程全封闭

Environmental friendly
The granulation process is fully enclosed



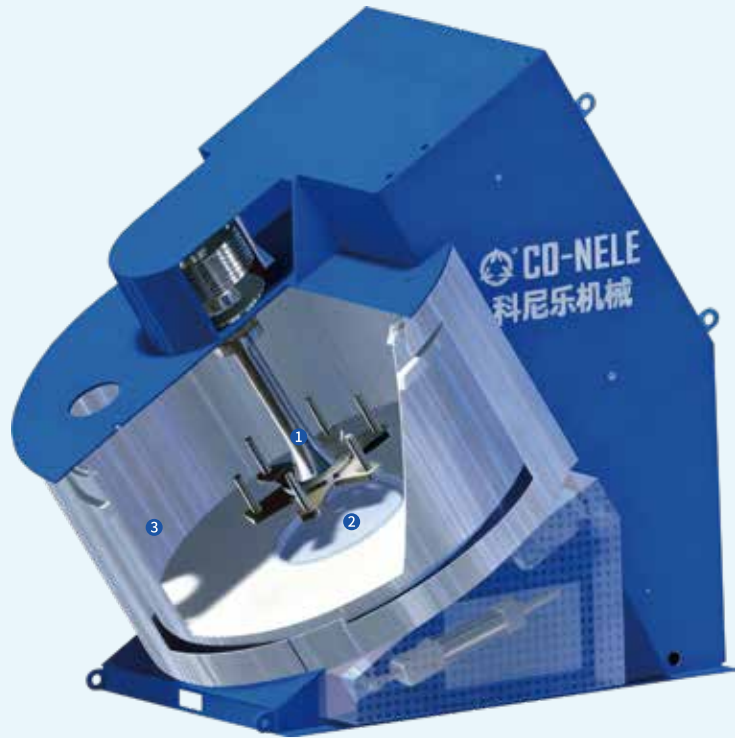
1.造粒盘 Granulation disc



2.卸料门 Discharge door



3.旋转筒体 Rotating cylinder



造粒机技术参数表 *Technical data*

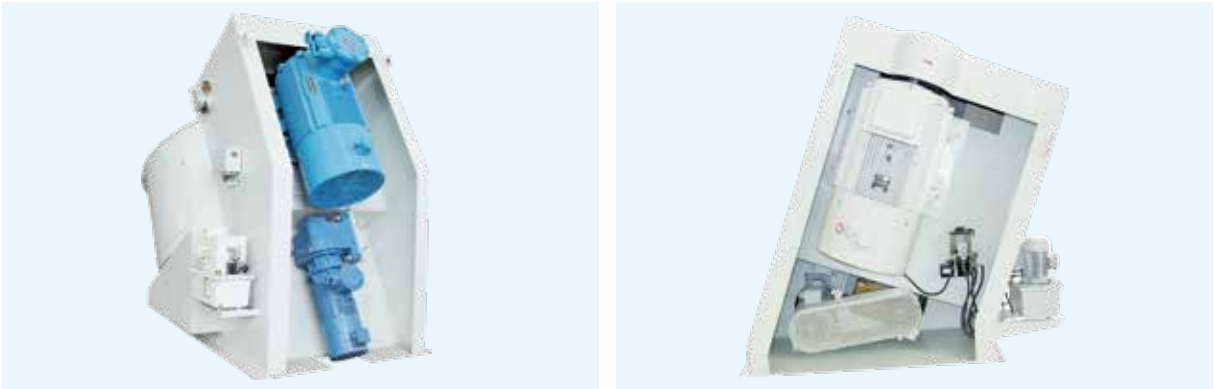
型号Type	造粒量Granulation (L)	卸料方式Discharging	加热Heating	真空Vacuum	制冷Cooling	批次Batch
CEL1s	0.1-0.5	拆装式	■	■	■	■
CEL01	0.2-1	拆装式	■	■	■	■
CEL1plus	0.8-2	拆装式	■	■	■	■
CEL05	2-5	升降式	■	■	■	■
CEL10	3-10	升降式	■	■	■	■
CR02F	2-5	翻转式	■	■	■	■
CR04F	5-10	翻转式	■	■	■	■
CR05F	10-25	翻转式	■	■	■	■
CR08F	25-50	翻转式	■	■	■	■
CR09F	50-100	翻转式	■	■	■	■
CR05	10-25	底部中心	■	■	■	■
CR08	20-40	底部中心	■	■	■	■
CR09	50-100	底部中心	■	■	-	■
CRV09	75-150	底部中心	■	■	-	■
CR11	75-150	底部中心	■	■	-	■
CRV11	125-250	底部中心	■	■	-	■
CR12	125-250	底部中心	■	■	-	■
CRV12	170-350	底部中心	■	■	-	■
CR15	250-500	底部中心	■	■	-	■
CRV15	300-600	底部中心	■	■	-	■
CR19	350-650	底部中心	■	■	-	■
CRV19	500-1000	底部中心	■	■	-	■
CR22	500-1000	底部中心	■	■	-	■
CRV22	600-1250	底部中心	■	■	-	■
CR24	750-1500	底部中心	■	■	-	■
CRV24	100-2000	底部中心	■	■	-	■
CR29	1200-2500	底部中心	■	■	-	■
CRV29	1700-3500	底部中心	■	■	-	■
CR33	1700-3500	底部中心	■	■	-	■
CRV33	2000-4500	底部中心	■	■	-	■

因技术不断升级，具体参数以技术方案为准。

结构特征 *Mechanical features*

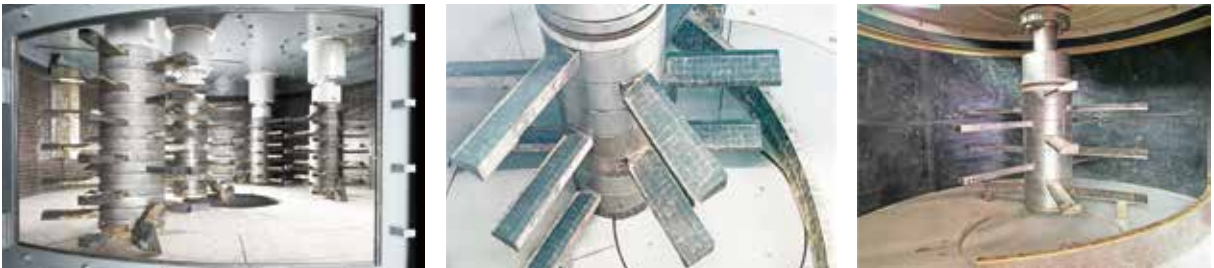
1 传动装置 *Gearing system*

- 动力需求、转数、旋转方向和能量的传递方式可根据工作任务进行选择；
- 用齿环传动的搅拌筒；
- 通过带有三角皮带的标准马达或三角皮带的标准马达带动齿轮箱驱动的搅拌工具。
- *It can be selected for different demand of power, revolutions, direction of rotation and energy transfer mode according to the task.*
- *Friction gear or ring gear driven mixing drum.*
- *The motor dirive the gearbox by vee belt Then the gearbox drive the mixing device.*



2 搅拌装置 *Mixing device*

- 物料槽一起旋转，与此同时，使在离心位置上同方向旋转的搅拌器产生可以剪断物料的力量，在复杂的流动中形成的速度差。刮板叶片不断地剥离那些还留在槽底和边缘的物料送至搅拌器，实现了物料的最佳均匀性搅拌效果。
- 搅拌桶的底部/壁部装有耐磨合金衬板，转子桨叶和壁部/底部刮刀为硬质合金镀层耐磨保护，磨损小经久耐用而便于维护保养。
- 搅拌叶片便于更换，搅拌叶片的形状和数量根据搅拌物料决定。
- *While the material rotating with the mixing drum, a force generated between the mixing drum and the mixing device that is rotating the same direction in the centrifugal position.*
- *The wolfram carbide compounded liner ensures a durable quality and an easy maintaining.*
- *The shape and quantity of the mixing blade depends on the material to mix. The blades are also easy to replace.*



3 卸料装置 Discharging device

按产品和结构情况进行有针对性的设计。在卸料门上设计有专门的密封装置(专利技术),确保其密封牢靠不漏浆、控制可靠。

Special sealing device is applied to the discharging gate to prevent from leaking.



4 耐磨衬板 Protection against wear

- 搅拌物料对于筒体内接触的结构部件具有磨损、腐蚀性,耐磨衬板,转子、衬板种类,可根据客户要求对材质定制。
- 搅拌桶内衬有:耐磨合金衬板、陶瓷衬板、堆焊衬板、不锈钢衬板、硫化橡皮内衬等高分子材质,也可根据要求定制材质。
- *The stirring materials are abrasion and corrosiveness to the structural parts in the internal contact of the cylinder. Our company has targeted choice of the wear-resistant parts.*
- *The inner lining of the stirring materials and the stirring barrel is: wear-resistant alloy liner, ceramic liner, surfacing liner, stainless steel liner and vulcanized rubber liner with higher molecular material.*



5 检修门 Maintaining door

- 根据市场要求,考虑人身安全,检修门上使用了可靠性高,灵敏度高的安全开关,检修时安全、方便。
- 筒盖检修门上设有观察口,可以在搅拌机不断电的状态下观察其正常工作时的搅拌物料的情况。
- *On the consideration of personnel safety and to the market demand, we adopt reliable high-sensitive security switches to be equipped on the maintaining door.*
- *There is an observing port on the maintaining door, observing is possible without cutting off the power.*



选配项 Optional items

真空/加热/制冷
耐磨件衬板/叶片

*Vacuum/Heating/ Cooling
Wear-resistance liner/blade*



硫化橡皮内衬和专用塑料

PTFE,Viton等密封材料

硬质合金涂层、包覆层

高级合金钢、有色金属、陶瓷材料

Vulcanized rubber lining and special plastics

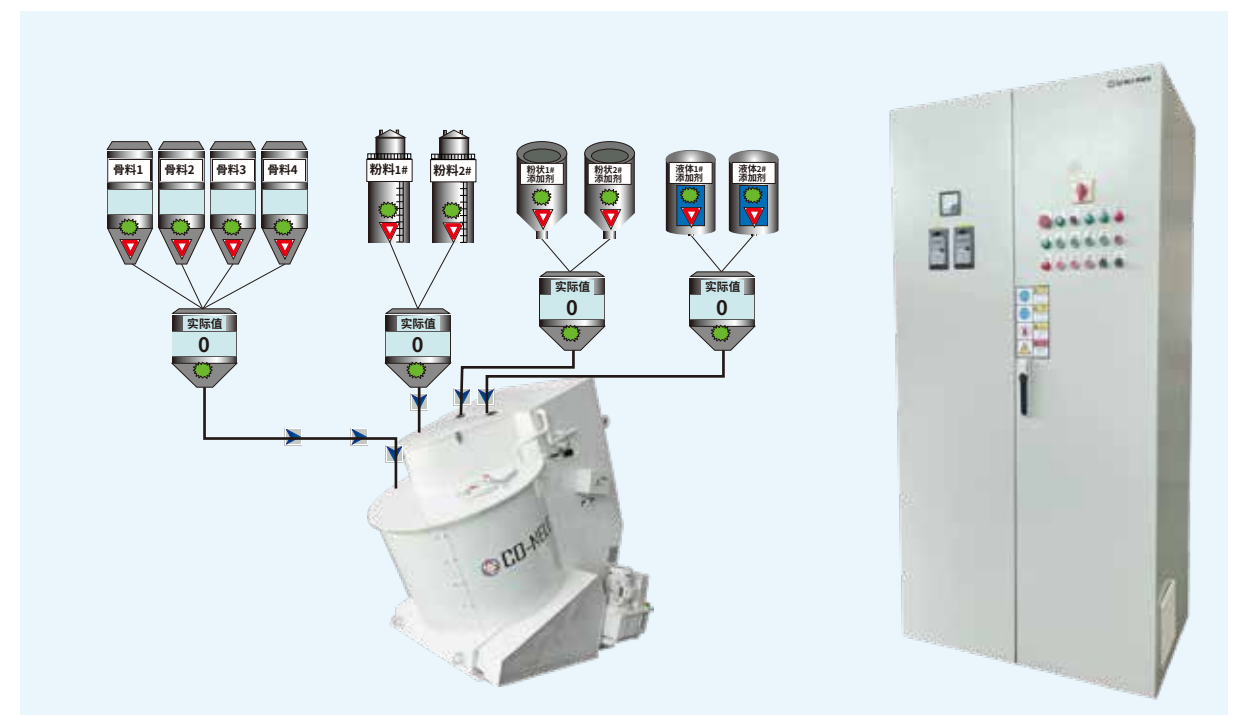
PTFE, Viton and other sealing materials

Carbide coating, cladding

High-grade alloy steel, non-ferrous metals, ceramic materials



控制系统 Control System





部分应用行业 Applications



陶瓷

Ceramics

成型料, 分子筛, 支撑剂, 变阻材料, 牙科用料, 陶瓷刀具, 研磨材料, 氧化陶瓷, 非氧化物陶瓷、复合材料、硅酸盐科技陶瓷、研磨球, 铁氧体等等。
Molding compounds, molecular strainers, proppants, varistor compounds, dental compounds, cutting ceramics, grinding agents, oxide ceramics, Non-oxide ceramics, composite materials, silicate technical ceramics, grinding balls, ferrites, etc.



耐火材料

Rereactory

不定型产品、定型产品、预制件、陶瓷纤维的混合物、氧化物和非氧化物陶瓷材料的混合物和颗粒。
Shaped products,Unshaped products,Prefabricated parts,Mixtures and granules for oxide and non-oxide ceramic materials,Mixtures for ceramic fiber materials.



环保

Environmental technology

粉煤灰、灰渣、粉尘/滤尘、污泥、水泥过滤尘, 飞灰, 淤渣/滤饼, 灰尘, 氧化铅、石膏等等。
Fly ash, slag, dust, sludge, cement filter dust, fly ash, slurries, dusts, lead oxide, Phosphogypsum etc.



建材

Concrete

砖块, 膨胀黏土, 珍珠岩等等的多孔介质、耐火陶粒、粘土陶粒、页岩陶粒、陶粒滤料、陶粒砖、陶粒混凝土等。
Porous media of bricks, expanded clay, perlite, etc., refractory ceramsite, clay ceramsite, shale ceramsite, ceramsite filter material, ceramsite brick, ceramsite concrete, etc.



冶金

Metallurgy

锌矿和铅矿, 氧化铝, 金刚砂, 铁矿石、冶金球团制备、金属粉末, 金属结构件等等。
Zinc and lead ore, aluminum oxide, silicon carbide, iron ore, metal powder, metal structural components, etc.



农业化学

Fertilizer

熟石灰, 白云石, 磷肥, 泥炭化肥, 矿物材料, 糖用甜菜种子、化肥、磷肥、炭黑等等。
Agricultural chemistry, Lime hydrate, dolomite, phosphate fertilizer, peat fertilizer, mineral compounds, sugar beet seeds,etc.

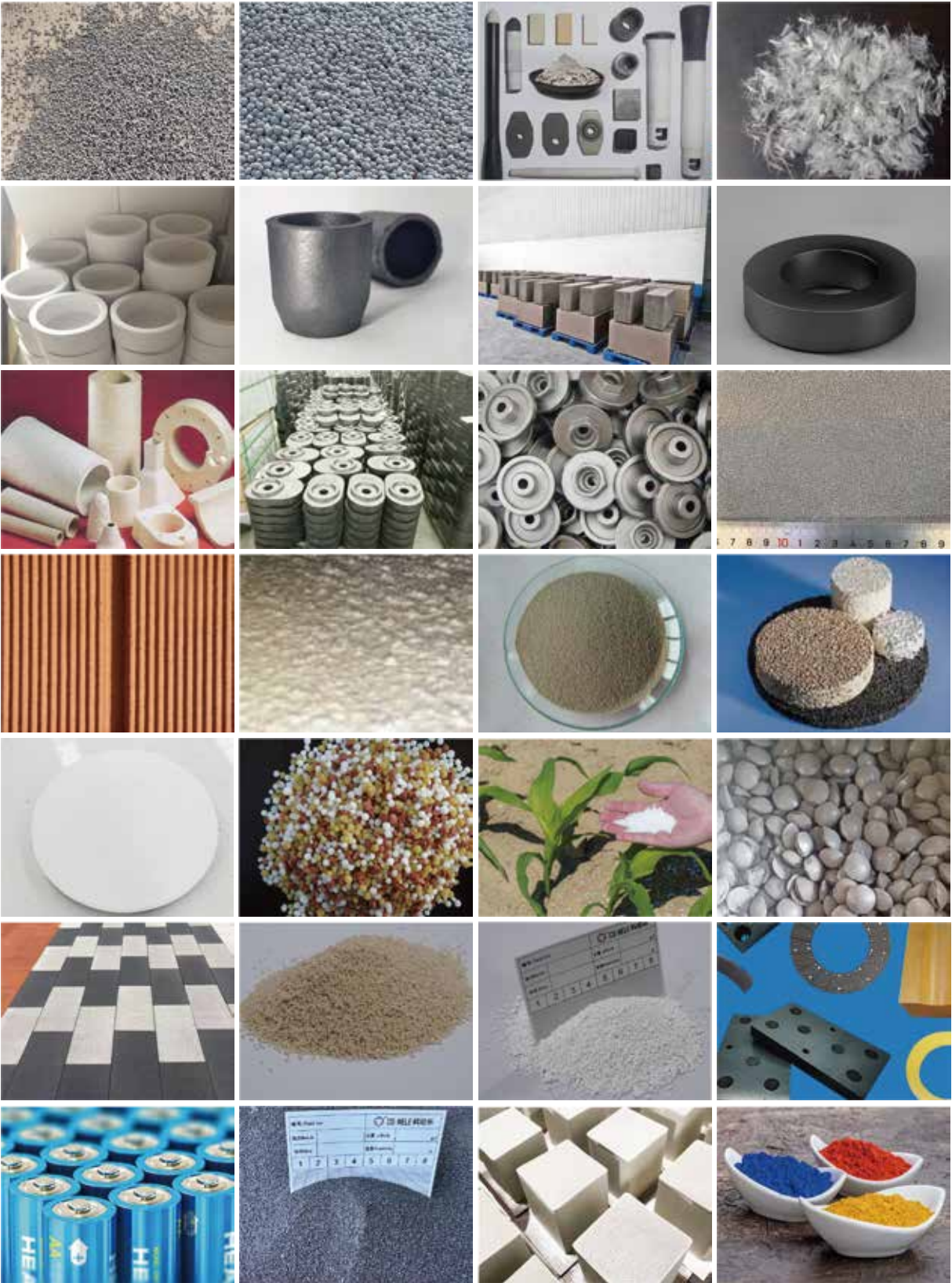


玻璃

Glass

玻璃粉, 碳素, 含铅玻璃料、废玻璃渣等等。
Glass powder, carbon, lead glass mixtures,waste glass slag etc.

锂电池材料、焊剂、摩擦材料、膨润土、型砂.....
Lithium battery material, flux, friction material, bentonite bonded sand



工程案例 Projects



工程案例 Projects

