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Jiangsu Degao Centrifuge Manufacturing Co., Ltd.

张家港市德高机械制造有限公司(原单位)
Zhangjiagang Degao Machinery Manufacturing Co., LTD.(Original Unit)

湘潭惠博离心机有限公司(控股)
Xiangtan Huibo Centrifuge Co., Ltd.(Holding)

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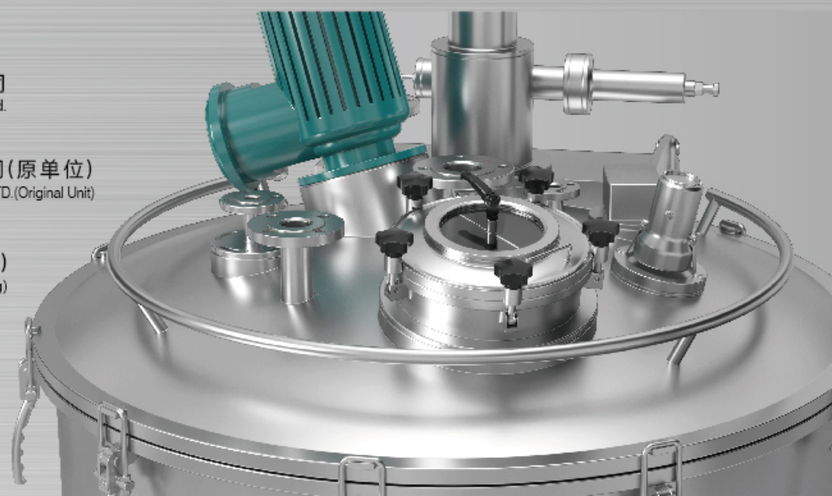
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关于我们
About us

江苏德高离心机制造有限公司拥有着多年的行业经验和专业技能。一直秉持着一贯的高标准和严谨的态度，从而赢得了同行业的广泛认可和尊重。作为一个优秀的企业，它不仅有着卓越的产品和服务，还有一支技术精湛的年轻团队，他们不畏劳苦，坚守自己的岗位，不断进行离心机的研发与制造。

本公司具有优良的生产设备，完善的检测手法，严格按照各技术标准进行生产加工和检验，确保每台出厂的设备安全可靠。

公司生产的离心机广泛应用于化工、制药、食品、环保、新能源、制盐等多种领域。已具备设计、制造 LGZD 全自动拉袋刮刀，LGZ 全自动刮刀下卸料离心机、HY、HR 活塞推料离心机；LW 卧式螺旋卸料沉降离心机；GK、GKH 刮刀卸料离心机等产品的制造能力。

本公司热忱欢迎广大新老客户和国内外专业人员来厂考察、指导、我们将用可靠的产品，专业的态度竭诚为您服务！



The company has excellent production equipment, perfect testing methods, in strict accordance with the technical standards for production processing and inspection, to ensure that each factory equipment is safe and reliable.

Centrifuges produced by the company are widely used in chemical, pharmaceutical, food, environmental protection, new energy, salt and other fields. We have designed and manufactured HY and HR piston centrifuge. LW horizontal screw discharge settling centrifuge; GK, GKH scraper discharge centrifuge and other products manufacturing capacity.

The company warmly welcomes new and old customers and domestic and foreign professionals to visit the factory, guidance, we will use reliable products, professional attitude wholeheartedly to serve you!

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>> Jiangsu Degao Centrifuge Manufacturing Co., Ltd. has many years of industry experience and professional skills. Always uphold the consistent high standards and rigorous attitude, so as to win the industry's wide recognition and respect. As an excellent enterprise, it not only has excellent products and services, but also a skilled young team, they are not afraid of hard work, stick to their positions, and continue to carry out the research and development and manufacturing of centrifuges.



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卓越柔性的生产能力

Excellent Flexible Production Capacity

产品质量决定企业的成败。从企业诞生起，德高离心机便以“专业铸就品质”作为公司的经营理念。并致力于产品品质的不断提升，秉持“品质好、效率高、不断改善”的品质政策，不断更新和完善制造设备和技术，确保客户的品质信心。

生产中严格执行国际质量标准体系和行业标准要求，从原材料采购到产品出厂，每一个环节均采用科学、先进的技术措施，严格控制产品的制造质量。

Product quality determines the success or failure of an enterprise. Since the birth of the enterprise, Degao centrifuge has taken "professional casting quality" as the company's business philosophy. And committed to the continuous improvement of product quality, adhering to the "good quality, high efficiency, continuous improvement" quality policy, constantly update and improve manufacturing equipment and technology, to ensure customer quality confidence.

Strict implementation of international quality standard system and industry standard requirements in production, from raw material procurement to product factory, each link adopts scientific and advanced technical measures to strictly control the manufacturing quality of products.







德高离心机 DEGAO CENTRIFUGE



设备与技术的革新是**品质的保证**

Equipment and technology innovation is an assurance for quality







德高离心机
DEGAO CENTRIFUGE

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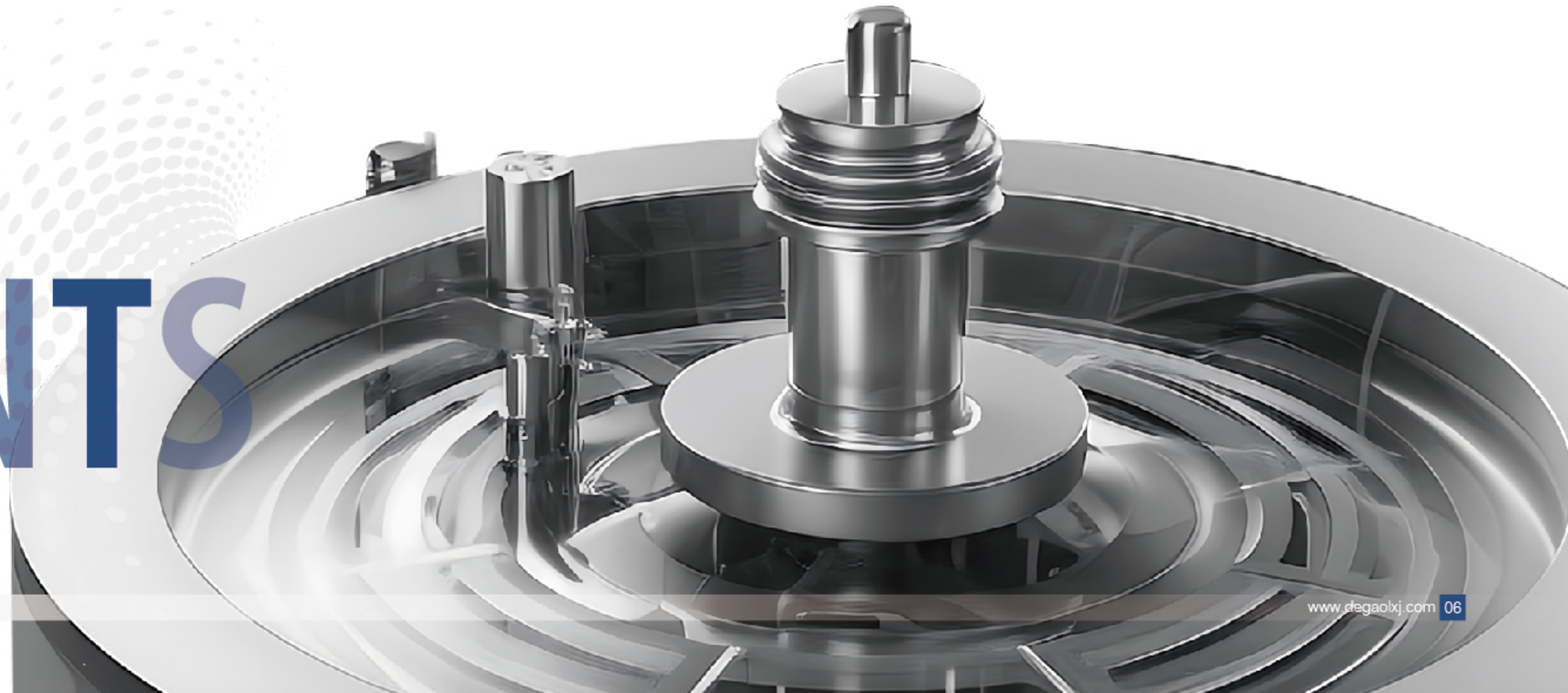
卧式刮刀卸料离心机
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PSB/PBZ
平板上卸料离心机

Vertical Top Discharge Centrifuges

主要特点

- 结构件过渡圆滑，表面经抛光处理，有效消除卫生死角，与物料接触部分材料采用不锈钢制造。
- 翻盖打开可对离心机外壳与转鼓夹层空间进行有效清洗。
- 机座为平板结构，降低机器重心，占地空间小，平板式机座可作为操作平台，操作方便。
- 配置液态阻尼减振器，减振效果好，简化日常保养。
- 翻盖设置进料管、洗涤管、观察镜、照明孔。配置在线清洗系统（选装），对离心机外壳内壁，转鼓内外表面，集液槽表面等离心机内部不可见部位进行清洗，符合 GMP 规范。
- 晶粒不易破碎，既可用于固相为颗粒状的悬浮液分离，也可用于纤维状物料的分离，适用范围广。
- 变频器启动，启动平稳，分离因数可调。
- 密闭结构，密封件采用硅橡胶或氟橡胶等，配置氮气保护系统（选装），可实现密闭防爆要求，适合于有毒和易燃易爆场合的应用。
- PBZ 型离心机采用直联防爆电机，消除了带传动带来的磨擦粉尘；同时由于电机安装于机器底部，离心机占地面积更小。

Main Features

- The transition of structural parts is smooth, the surface is polished, and the sanitary dead Angle is effectively eliminated. The part of the material in contact with the material is made of stainless steel.
- The flap can be opened to effectively clean the space between the centrifuge shell and the drum.
- The frame is flat structure, reducing the center of gravity of the machine, occupying a small space, the flat frame can be used as an operating platform, easy to operate.
- Equipped with liquid damping shock absorber, good vibration reduction effect, simplify daily maintenance.
- Flap is provided with feeding tube, washing tube, viewing mirror and lighting hole. The online cleaning system (optional) is configured to clean the inner wall of the centrifuge shell, the inner and outer surfaces of the drum, the surface of the liquid collecting tank and other invisible parts of the centrifuge, which conforms to the GMP standard.
- The grain is not easy to break, which can be used for the separation of suspension with granular solid phase and the separation of fibrous materials.
- The frequency converter starts, starts smoothly, and the separation factor is adjustable.
- Sealed structure, the sealing parts are made of silicone rubber or fluorine rubber, etc., equipped with nitrogen protection system (optional), which can realize the requirements of sealing and explosion-proof, suitable for toxic and flammable and explosive applications.
- PBZ type centrifuge adopts direct link explosion-proof motor to eliminate friction dust brought by belt drive. And because the motor is installed at the bottom of the machine, the centrifuge occupies a smaller area.





德高离心机
DEGAO CENTRIFUGE

PSB技术参数 / Technical Parameters

项目 Items	PSB600	PSB800	PSB1000	PSB1200	PSB1250	PSB1500
转鼓直径 Basket Dia (mm)	600	800	1000	1200	1250	1500
转鼓容积 Basket volume (L)	45	120	200	330	400	600
最大装料限量 Max. load (kg)	60	150	250	410	500	800
转鼓转速 Max. Rolating speed(r/min)	1500	1200/1500	1100/1200	1100/1200	1000/1200	850
分离因数 Centrifuge force	755	645/1006	680/806	670/968	700/1008	607
电机功率 Motor (kw)	3	7.5	11	18.5	18.5/22	30
外形尺寸 Dimension (LxWxH) (mm)	1300x1050x1150	1700x1200x1300	2000x1400x1500	2550x1800x1750	2550x1800x1750	2600x2300x1800
机器重量 Weight (kg)	1100	1500	2500	3800	3800	6000

PBZ技术参数 / Technical Parameters

项目 Items	PBZ300	PBZ450	PBZ600	PBZ800	PBZ1000
转鼓直径 Basket Dia (mm)	300	450	600	800	1000
转鼓容积 Basket volume (L)	5	20	40	100	155
最大装料限量 Max. load (kg)	7	30	55	135	200
转鼓转速 Max. Rolating speed (r/min)	2825	1900	1500	1200	1000
分离因数 Centrifuge force	1340	910	755	645	560
电机功率 Motor (kw)	11	1.5	3	5.5	7.5
外形尺寸 Dimension (LxWxH) (mm)	600x600x850	850x850x1000	1200x1050x1300	1500x1250x1400	1600x1400x1450
机器重量 Weight (kg)	200	300	1100	1500	2000

PQSB/PQFB
平板式人工卸料离心机

Platform Base Top Discharge Centrifuges

工作原理 Operating Principle

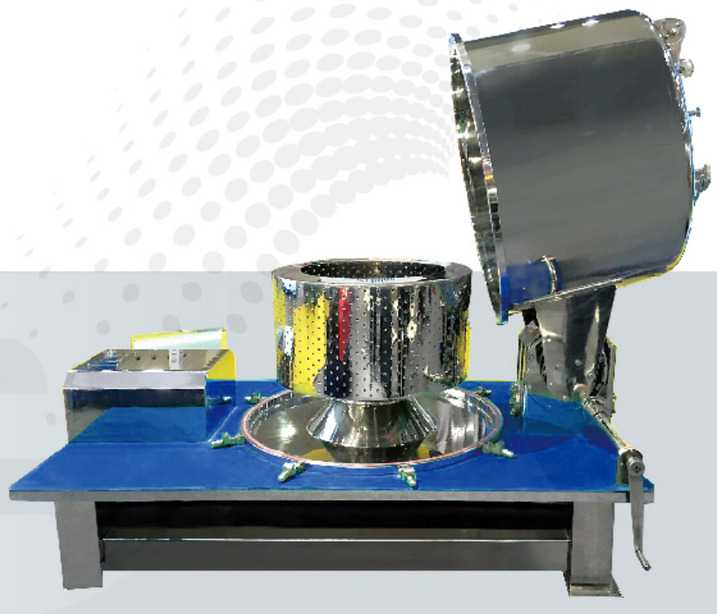
- 待分离的物料经进料管进入高速旋转的离心机转鼓内，在离心力场的作用下，物料通过滤布(滤网)过滤，液相经出液管排出，固相则截留在转鼓内。待转鼓内滤饼达到机器规定的装料量时停止进料，对滤饼进行洗涤，同时将洗涤液滤出。滤饼脱液达到要求后，停机，滤饼由人工卸出。进入待机状态。

- Once the materials to be separated enter the fast-spinning basket, it will be filtrated by the filter liner under the centrifugal force. The liquid flows out through the liquid outlet, but solids deposit on the internal wall of the basket. Once the solid cake reaches the rate capacity feeding stops. Wash the solids cake, and then drain out the washing water Finally stop the machine. The solid cake is discharged manually and move to next batch.

主要特点 Main Features

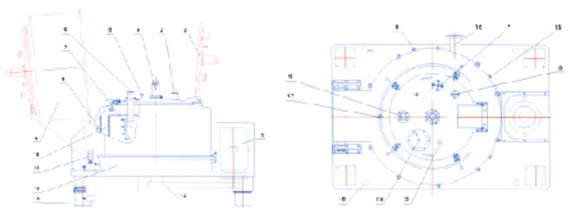
- 全翻盖结构，结构件过渡圆滑，表面经抛光处理，有效消除卫生死角，外部结构件，紧固件和转鼓采用不锈钢制造，可对离心机外壳、转鼓、出液槽进行彻底清洗。
- 机座为平板式结构，机器重心低，占地空间小，操作方便。
- 配置液态阻尼减振器、减振效果好，简化日常保养。
- 翻盖上设置进料管、洗涤管、观察镜、照明孔。配置在线清洗系统(选装)，对离心机外壳内壁、转鼓内外表面、集液槽表面等离心机内部进行在线清洗，保证了洁净度要求，符合 GMP 规范。
- 通用性强，晶粒不易破碎，既可用于固相为颗粒状的悬浮液分离，也可用于纤维状物料的分离，适用范围广。
- 采用变频器启动，启动平稳，分离因数可调；配置氮气保护系统(选装)，可实现密闭结构防爆要求，适合于有毒和易燃易爆场合的应用。
- 可配置手动、液压等多种翻盖形式。





德高离心机 DEGAO CENTRIFUGE

- With full-turnover cover design and polished surface leaves no residual heel The case, fixing parts and basket are made of stainless steel It is easy to clean the gap between the case and the basket.
- Plattorm base design lowers the center of gravity and requires minimum installation space. The platform base can be used for operation platform.
- Liquid-damping vibration isolators, simplify the routine maintenance.
- Full-turnover hinged cover feeding pipe, washing pipe, observation glass and light. Automatic CIP system (optiona) cleans the internal surface of the case, the basket and liquid slot to meet the clean requirement in accordance with GMP standards.
- Wide range of applications No damage to the particle shape.
- Inverter start-up, smooth starting, adjustable relative centrifugal force. Tightness structure with silicone rubber or fluoroelastomers seals. Nitrogen protection system (optional) is for anti-explosion applied to poisonous, flammable and explosive environment.
- It can be configured with manual, hydraulic and a variety of forms of flip.



1. 电机 Motor
2. 小翻盖 Little cover
3. 排气管 Vent pipe
4. 防爆照明灯 Explosion-prooflight
5. 氮气管 Nitrogen pipe
6. 进料管 Feeding pipe
7. 洗涤管 Washing pipe
8. 侧向清洗接管 Later washing pipe
9. 大翻盖 Big lid
10. 转鼓 Baskat
11. 翻盖机构 Lid opening device
12. 机座 Base
13. 液压阻尼减振器 Liquid-damping vibration isolator
14. 传动 Tranamission
15. 下在线喷淋管 Bottom CIP pipe
16. 出液管 Drain pipe
17. 上在线喷淋管 Top CIP pipe
18. 吊装点 Lifting point
19. 观察镜 Sight glass

PQSB技术参数 / Technical Parameters

项目 Items	PQSB600	PQSB800	PQSB1000	PQSB1250
转鼓直径 Basket Dia (mm)	600	800	1000	1250
转鼓容积 Basket volume (L)	45	100	150	310
最大装料限量 Max. load (kg)	60	125	200	380
转鼓转速 Max. Rolating speed (r/min)	1500	1200	1100	1000
分离因数 Centrifuge force	755	645	680	700
电机功率 Motor (kw)	3	7.5	11	18.5
外形尺寸 Dimension (LxWxH) (mm)	1900x1300x1300	2200x1450x1350	2450x1500x1400	2450x1700x1650
机器重量 Weight (kg)	1100	1500	2200	3200

PQFB技术参数 / Technical Parameters

项目 Items	PQFB600	PQFB800	PQFB1000	PQFB1250
转鼓直径 Basket Dia (mm)	600	800	1000	1250
转鼓容积 Basket volume (L)	45	100	150	210
最大装料限量 Max. load (kg)	60	125	200	260
转鼓转速 Max. Rolating speed (r/min)	1500	1200	1100	1000
分离因数 Centrifuge force	755	645	680	700
电机功率 Motor (kw)	3	7.5	11	18.5
外形尺寸 Dimension (LxWxH) (mm)	1900x1300x1300	2400x1300x1650	2450x1500x1650	3000x1650x1550
机器重量 Weight (kg)	1100	2000	2600	3500

PSD
平板式吊袋卸料离心机
Platform Base Bag-lifting Top Discharge Centrifuges

工作原理 Operating Principle

- 待分离的物料经进料管进入高速旋转的离心机转鼓内，在离心力场的作用下，物料通过滤布(滤网)过滤，液相经出液管排出，固相则截留在转鼓内。待转鼓内滤饼达到机器规定的装料量时，停止进料，对滤饼进行洗涤，同时将洗涤液滤出。滤饼脱液达到要求后，停机。专用的吊具将滤袋连同滤饼一起吊出至指定卸料处，打开卸料口，将滤饼卸出，然后将滤袋复位，进入待机状态。

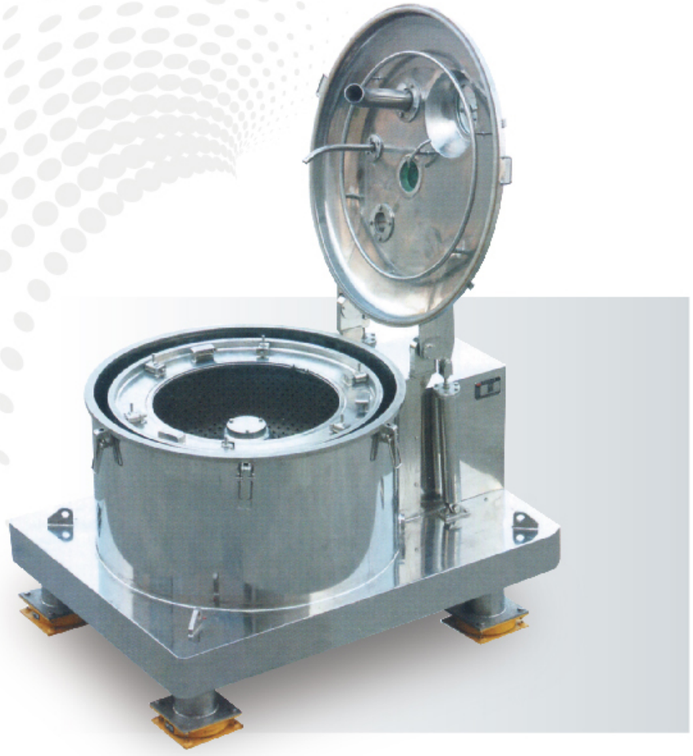
- Once the materials to be separated enter the fast-spinning basket, it will be filtrated by the filter liner under the centrifugal force. The liquid fluws out through the liquid outlet, but solids deposit on the internal wall of the basket.

  Once the solid cake reaches the rate capacity feeding stops Wash the solids cake and then drain out the washing water Finally stop the machine Use the lifting tool or crane to lift out the filter cloth with solid cake, and move to the discharging place Open the filter cloth and discharge the solid cake. Put the filter cloth back to the centrifuge and move to next batch.



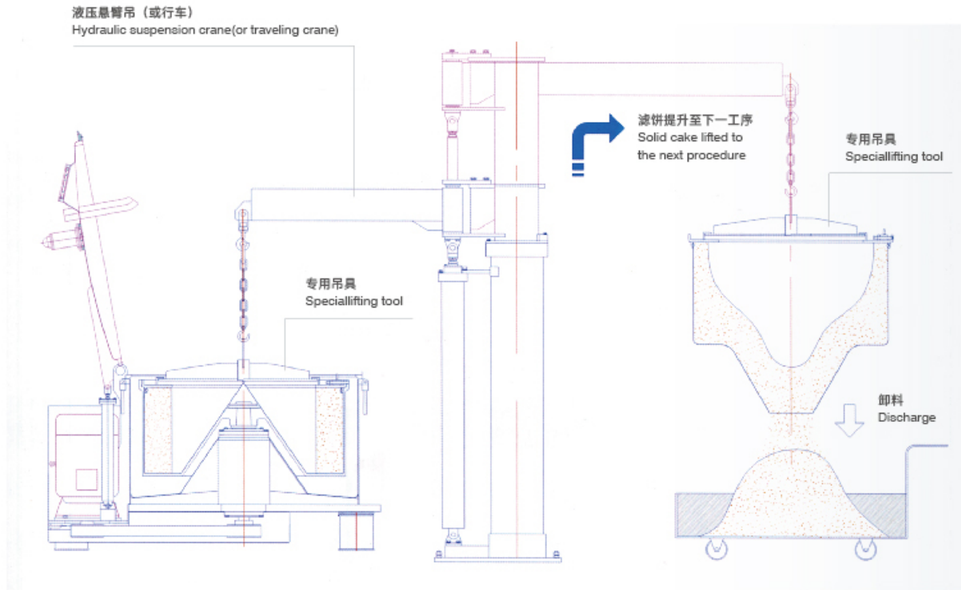
主要特点 Main Features

- 采用变频控制，启动平稳，分离因数可调。
- 吊袋卸料，晶粒不易破碎；劳动强度低，工效高；通用性强，适用范围广。
- 结构设计合理，结构件圆滑过渡，表面抛光处理，无卫生死角。翻盖式外壳，可对外壳与转鼓夹层空间进行彻底清洗。
- 机座与机壳为整体焊接结构，承载强度高。
- 平板式机座，机器重心低，占地空间小，平板机座可作为操作平台，操作方便。
- 四点支撑液态阻尼减振器，减振效果好，简化日常保养。
- 外壳翻盖设置进料管、洗涤管、观察镜、照明孔等常规管口。
- 配置在线清洗系统(选装)，可对离心机外壳内壁、转鼓内外表面、集液槽表面等内部不可见部位进行清洗，保证了洁净度要求，符合GMP规范。
- 密闭结构。密封件采用硅橡胶或氟橡胶等，配置氮气保护系统（选装)，可实现密闭防爆要求，适合于有毒和易燃易爆场合的应用。
- 配置液压式悬臂吊(选装)，卸料方便，符合卫生要求。



- Inverter start-up, smooth starting, adjustable relative centrifugal force.
- Discharge cake by lifting out filter cloth is highly efficient with low labour intensity No damage to the particles; Wide range of applications.
- Well-designed structure and polished surface leaves no residual heel. With big hinged cover iti is easy to clean the gap between the case and the basket.
- Overall weldling structure between the base and the case ensures high carrying strength.
- Platform base design lowers the center of gravity and requires minimum installation space The platform base can be used for operation platform.
- Liquid-damping vibration isolators, simplify the routine maintenance.
- Big hlinged cover feed pipe, wash pipe, observation glass and light.
- Automatic CIP system (optional) cleans the internal surface of the case, the basket and liquid slot to meet the clean requirement in accordance with GMP standards.
- Tightness structure with silicone rubber or fluoroelastomers seals. Nitrogen protection system (optional) is for anti-explosion applied to poisonous, flammable and explosive environment.
- Equipped with hydraulic suspension arms (optional) which is easy for discharging and complies with the sanitation requirements.

吊袋式上部卸料离心机卸料示意图 / Schematic diagram for vertical bag-lifting top discharge centrifuges



PSD技术参数 / Technical Parameters

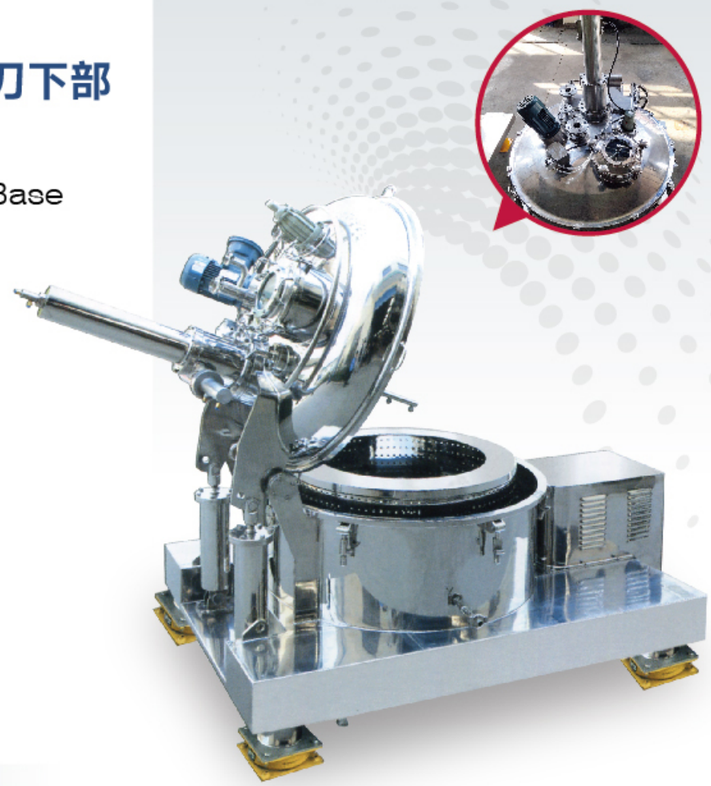
项目 Items	PSD800	PSD1000	PSD1200	PSD1250	PSD1500	PSD1600	PSD1800
转鼓直径 Basket Dia (mm)	800	1000	1200	1250	1500	1600	1800
转鼓容积 Basket volume (L)	120	200	330	400	600	800	910
最大装料限量 Max. load (kg)	150	250	410	500	800	1000	1100
转鼓转速 Max. Rolating speed (r/min)	1200/1500	1100/1200	960/1050	1000/1200	850	850	780
分离因数 Centrifuge force	645/1006	680/806	670/740	700/1008	607	647	612
电机功率 Motor (kw)	7.5	11	18.5	18.5/22	30	37	37
外形尺寸 Dimension (LxWxH) (mm)	1750x1200x1300	2000x1400x1500	2550x1800x1750	2550x1800x1750	2600x2300x1800	3200x2400x2150	3300x2600x2100
机器重量 Weight (kg)	1500	2500	3800	4000	6000	8500	10000

LGZ
平板式全自动刮刀下部卸料离心机

Automatic Platform Base Bottom Discharge Scraper Centrifuges







主要特点 Main Features

- 平板式结构，机器重心低，运行平稳；四点支撑、无基础安装形式。
- 液态阻尼减振，离心机隔振和减振性能卓越。
- 独立式斜盘布料装置，加料均匀并可控。
- 气体反冲及气体辅助刮刀装置，使残余滤饼降低至最少，以便滤布再生。
- 氮气保护系统(选装)，可实现密闭防爆要求，适合于有毒和易燃易爆场合的应用。保证机器安全运行。
- 大翻盖结构，离心机内腔设置清洗装置，对离心机进行在线清洗，避免产品交叉污染。
- 多重安全保护装置：过振动保护、过电流保护、温控保护，料层控制、刮刀行程保护、开盖保护机械和电气联锁保护，各种警示和警告标识。
- PLC 程序控制、触摸屏、变频器控制、能耗制动、回馈制动、设备故障自我诊断，自动化人机界面控制，DCS 控制接口。
- 内外表面经过抛光处理，表面粗糙度可达 Ra0.2-0.4μm，符合 GMP 规范。

- Platform base structure could lower the center of gravity and stabilize the machine. No foundation construction makes convenient installation and repairing.
- Platform base with liquid damping isolators: Applying the liquid damping technique improves performance of vibration absorption in centrifuge.
- Inclined feed disk: we discarded the central feed or side feed method.
- Air recoil and pneumatic auxiliary scraper' this technology effectively reduces the solids remained in the basket and effective resume the performance of the filter cloths.
- Nitrogen protection system (optional) can meet the requirements of sealed explosion-proof, and is suitable for the application of toxic, flammable and explosive occasions. Ensure the safe operation of the machine.
- Big hinged cover and CIP system, which avoiding cross contamination against the products.
- Multiple safety protection devices: over-vibration protection, over-current protection, thermal control protection, cake layer controller protection for scraper movement, protection when open the cover various signs and warning identifications.
- PLC control, touch screen, inverter control, dynamic braking, feedback braking, self-diagnosis of equipment fault, automatic control panel and DCS control interface.
- Polished internal/external surfaces with roughness up to Ra0.2 - 0.4 μm, complying with the related requirements of cGMP.

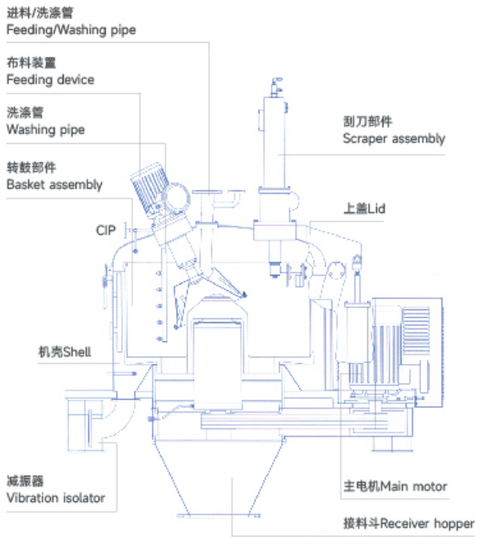
德高离心机 DEGAO CENTRIFUGE

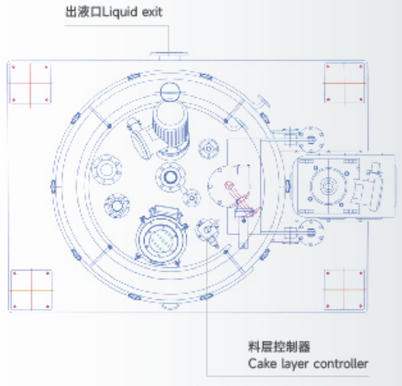
配置选择说明 Optional configurations

外形结构： 大开盖、全开盖及平盖多种结构
布料方式： 斜盘布料器、侧向布料管、中间布料管
刮刀卸料： 液压、气动
电机驱动： 普通电机、变频电机、防爆电机、能耗制动或回馈制动
安全防护： 防爆、振动保护、料满检测保护、开盖保护、温度保护、机电联锁、速度监测、过载保护、氮气保护系统
表面处理： 镜面抛光、亚光处理、钝化处理
电气元件： 品牌供应
残余滤饼处理： 气体反吹、滚轮辅助刮刀、气体辅助刮刀
程序控制： 可编程序控制方式、DCS控制方式
在线清洗： 清洗球、喷淋管
氮气保护： 自动供氮装置、液封装置、气液分离器、氧含量检测系统
涂层处理： 衬HALAR（F30）、F40、F46、PFA、衬PE、衬橡胶

Shape Structure:
Large Open Cover, Full Open Cover and Flat Cover
Distribution mode:
Inclined plate distributor, lateral distributor and intermediate distributor
Scraper discharge:
Hydraulic and pneumatic
Motor Drive:
General Motor, Frequency Converter Motor, Explosion-proof Motor, Energy Consumption Brake or Feedback Brake

Safety protection:
Explosion proof, vibration protection, full material detection protection, open cover protection, temperature protection, electromechanical interlocking, speed monitoring, overload protection, nitrogen protection system
Surface treatment:
Mirror polishing, matte treatment, passivation treatment
Electrical Components:
Brand Supply
Residual cake treatment:
Gas back-blowing, roller-assisted scraper, gas-assisted scraper
Programming Control:
Programmable Control Mode and DCS Control Mode
On-line cleaning:
Cleaning balls and spray pipes
Nitrogen Protection:
Automatic Nitrogen Supply Device, Liquid Packaging Device, Gas-liquid Separator, Oxygen Content Detection System
Coating treatment:
Lining HALAR (F30), F40, F46, PFA, PE and rubber





LGZ
刮刀下部卸料离心机
Bottom Discharge Scraper Centrifuges



- LGZ 系列离心机是一种高科技含量的离心分离机械具有多种配置可选择，可实现全自动程序控制，具有洁净卫生，密闭防爆，多重安全保护，多种配置选择等特点，广泛应用于制药，化工、食品等行业。

- LGZ series centrifuge is a type of centrifugal separation machinery with high scientific content, and several configuration options are available. Featuring asepsis, sanitation enclosed explosion-proof multiple safety protections and several configuration options, this series centrifuge is controlled by a fu}Jy-automatic program, and has been widely used in such industries as pharmacy fine chemistry and food.

LGZD技术参数 / Technical Parameters

项目 Items	LGZ800	LGZ1000	LGZ1250	LGZ1500	LGZ1600	LGZ1800
转鼓直径 Basket Dia (mm)	800	1000	1250	1500	1600	1800
转鼓容积 Basket volume (L)	100	190	400/500	610	800/1000	1000
最大装料限量 Max. load (kg)	135	255	500/600	820	1000/1200	1250
转鼓转速 Max. Rolating speed (r/min)	1200/1500	1100/1200	1100/1200	850	850	800
分离因数 Centrifuge force	645/1008	677/805	700/1008	606	647	645
电机功率 Motor (kw)	7.5/11	15	22/30	37	37/45	55
外形尺寸 Dimension (LxWxH) (mm)	1850x1250x2050	2200x1500x2250	2550x1800x2550 2550x1800x2900	2900x2100x2700	3200x2400x3000 3200x2400x3250	3500x2500x3400
机器重量 Weight (kg)	2000	3500	5000	8000	9500	15000

德高离心机 DEGAO CENTRIFUGE

工作原理 Operating principle

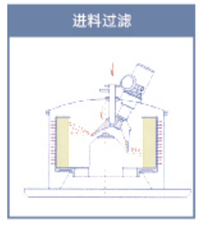
- 刮刀下部卸料离心机为立式全自动过滤离心机。电机通过皮带驱动转鼓高速旋转，待分离的物料在预先编制的程序控制下，通过进料系统进入高速旋转的离心机转鼓内。在离心力场的作用下物料通过过滤介质（滤布／滤网）的过滤，液相经出液管排出机外，固相则被截留在转鼓内。物料检测装置实时检测物料充填位置，当转鼓内滤饼达到机器规定的装料量时停止进料。然后对滤饼进行洗涤、甩干。滤饼达到脱液要求后，离心机降低到刮料速度，刮刀装置在液（气）动控制下将滤饼刮下，并经离心机下部的出料口排出。

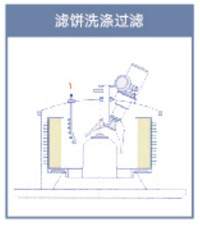
- The automatic bottom discharge scraper centrifuge is vertical tuiy-automatic filtration centrifuge. The motor drives the basket to rotate at high speed th rough the belt, and under the control of pre-written program, the material to be separated is fed into the basket through the feed system. After the material is filtered through the filtration medium (filfe r cloth/screen) under the action of centrifu g al force, the liquid phase discharges out of the centrifuge through the liquid pipeline, and the solid phase is retained in the basket. A material detection device is used to detected material filling position in real-time manner and when the solid cake deposited in the basket reaches the specified holding capacity of the centrifuge, feeding stops. Then wash and dry the solid cake. After the solid cake meets requirements for knock-out, the centrifuge reduces to the scraping rate, under the hydraulic (pneumatic) control, the scraper device removes the solid cake, and then the cake id discharged at bottom outlet of the centrifuge.

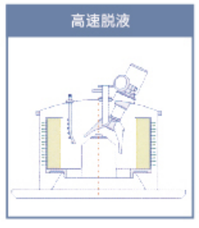


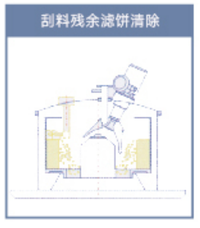


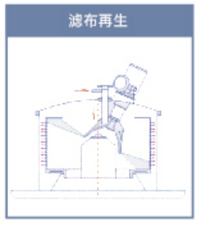
工作流程 Operating process

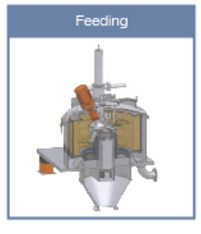


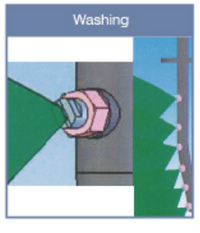






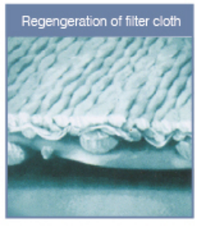












PAUT
上悬式刮刀卸料自动离心机
Top-suspended Bottom Discharge Scraper Centrifuges

主要特点 Main Features

- 电机上置式直联传动，传动和转鼓回转中心与机器中心重合，运行平稳。
- 液态阻尼减振器，无基础安装，便于操作和维护。
- 大长径比，装料容积大。
- 机壳与机座刚性连接全承载结构，结构简单紧凑。
- 独立式轴承座，轴承支承跨距大，转鼓重心低，承载能力大。
- 无皮带传动，无磨擦粉尘。
- 全自动操作程序控制，运行可靠、安全。
- 可配置氮气保护装置，实现防爆场合的应用。

- Upper type direct drive for motor rotating center for drive and drum coincide with machine center with smooth and stable operation.
- Liquid damping vibration absorber No foundation for installation facilitates operation and maintenance.
- Large length -diameter ratio, big loading capacity.
- Rigidly joint between base and case, offering simple and compact construction.
- Independent bearing seat, large bearing support span low basket gravity center larger carrying capacity.
- Driving without belt, ensures no friction dust.
- Fully-automatic operation program control ensuring reliable and safe operation.
- Nitrogen protection system is available for explosion-proof application.

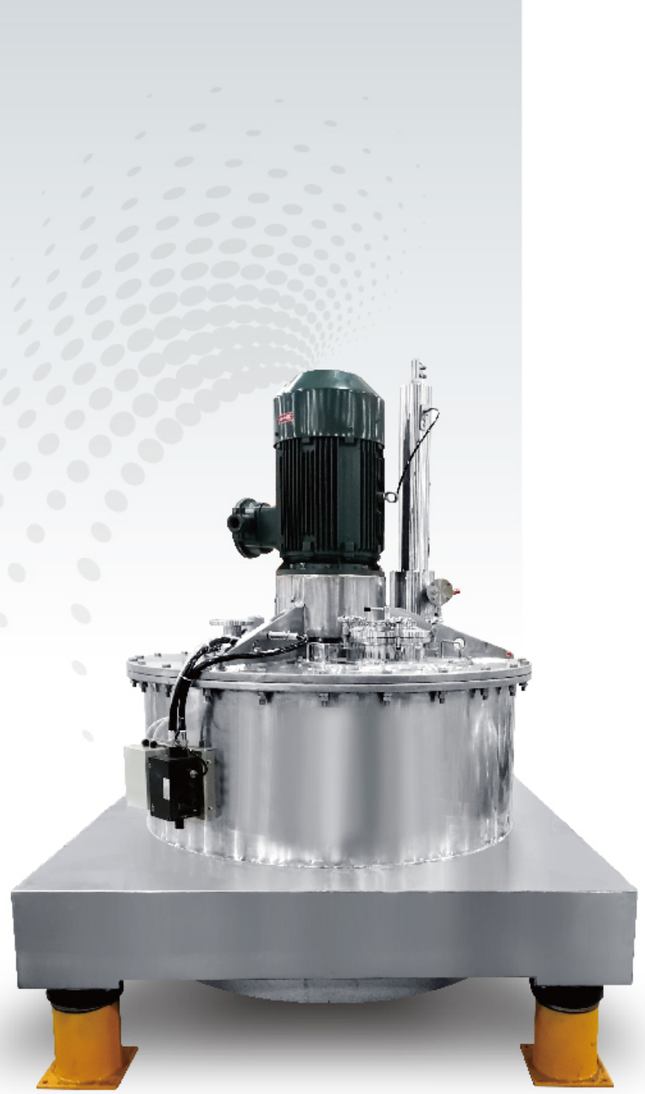
配置说明 Optional configurations

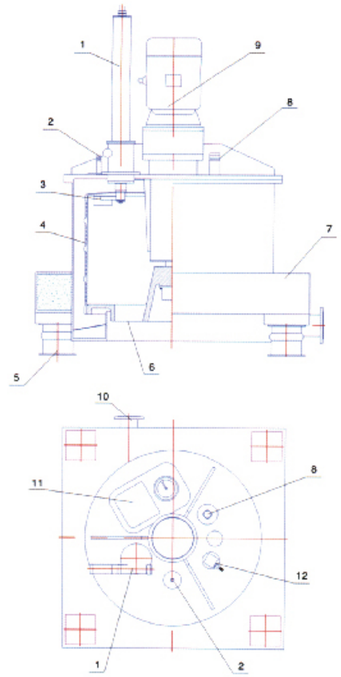
布料方式： 单管或多管侧向进料
刮刀卸料： 液压
电机驱动： 普通电机、变频电机、防爆电机、能耗制动或回馈制动
安全防护： 防爆、振动保护、料满检测保护、温度保护、机电联锁、速度监测、过载保护、氮气保护系统
表面处理： 镜面抛光、亚光处理、钝化处理
电气元件： 品牌供应
残余滤饼处理： 气体反吹、滚轮辅助刮刀、气体辅助刮刀
程序控制： 可编程序控制方式、DCS控制方式
氮气保护： 自动供氮装置、液封装置、气液分离器、氧含量检测系统
涂层处理： 衬HALAR（F30）、F40、F46、PFA、衬PE、衬橡胶
出料斗： 口径及高度可按用户要求配置

Distribution: Single or multi-tube side feeding
Scraper discharge: Hydraulic pressure
Motor drive: General Motor, Frequency Converter Motor, Explosion-proof Motor, Energy Consumption Brake or Feedback Brake
Safety protection: Explosion proof, vibration protection, full material detection protection, temperature protection, electromechanical interlocking, speed monitoring, overload protection, nitrogen protection system
Surface treatment: Mirror polishing, matte treatment, passivation treatment
Electrical components: Brand Supply
Residual cake treatment: Gas back-blowing, roller-assisted scraper, gas-assisted scraper
Programming control: Programmable Control Mode and DCS Control Mode
Nitrogen protection: Automatic Nitrogen Supply Device, Liquid Packaging Device, Gas-liquid Separator, Oxygen Content Detection System
Coating treatment: Lining HALAR (F30), F40, F46, PFA, PE and rubber
Discharge hopper: Caliber and height can be configured according to user's requirements

PAUT技术参数 / Technical Parameters

项目 Items	PAUT1250A	PAUT1250B	PAUT1320	PAUT1500	PAUT1600
转鼓直径 Basket Dia (mm)	1250	1250	1320	1500	1600
转鼓容积 Basket volume (L)	281	450	490	653	970
最大装料限量 Max. load (kg)	380	610	660	880	1300
转鼓转速 Max. Rolating speed (r/min)	970	970	900	850	850
分离因数 Centrifuge force	658	658	598	607	647
电机功率 Motor (kw)	22	30	30	37	45
外形尺寸 Dimension (LxWxH) (mm)	2100x2000x2200	2100x2000x2600	2100x2000x2600	2600x2350x2700	2700x2350x2900
机器重量 Weight (kg)	4500	5000	5500	8500	10000





1. 刮刀驱动装置 Scraper device
2. 洗涤管 Washing pipe
3. 刮刀 Scraper
4. 转鼓 Basket
5. 减振器 Vibration isolator
6. 出料口 Soild outlet
7. 机座 Base
8. 进料管 Feeding pipe
9. 电动机 Motor
10. 出液管 Drain pipe
11. 检视盖板 Check cover
12. 料层控制器 Cake layer controller





LGZD
抖袋式刮刀下部卸料离心机

Bag-shaking Bottom Discharge Scraper Centrifuges

- LGZD 系列抖袋式刮刀下部卸料离心机是在保持了 LGZ 系列产品的固液分离刮刀卸料等主要功能的基础上，增加了以抖袋方式清除残余滤饼层的功能，去除率可达 99% 以上。避免了不同批次间产品分离的交叉混批，同时解决了残余滤饼层对过滤速率的影响。主要应用于制药、食品、化工、新能源等行业的固液分离工艺。

- On the basis of maintaining the main functions of LGZ series products such as solid-liquid separation scraper discharging, LGZD series bagging scraper lower discharging centrifuge has added the function of removing residual cake layer by bagging, and the removal rate can reach more than 99%. The cross-mixing batches of product separation between different batches were avoided, and the effect of residual cake layer on the filtration rate was solved. It is mainly used in solid-liquid separation process in pharmaceutical, food, chemical and new energy industries.





德高离心机 DEGAO CENTRIFUGE

工作原理 Operating principle

- 待分离的物料经进料管加入高速旋转的离心机转鼓内，在离心场的作用下，物料经滤布实现过滤，液相经出液管排出，固相则被截留在转鼓内。当物料被加满时，停止进料，对滤饼进行洗涤，同时将洗涤液滤出。离心机继续旋转，对滤饼进行甩干。滤饼达到分离要求后，离心机降速，通过刮刀将滤饼刮下从底部排出机外。离心机再降速，抖袋装置往复抖动，将残余滤饼抖落，实现滤饼的完全清除，从而实现滤布再生。

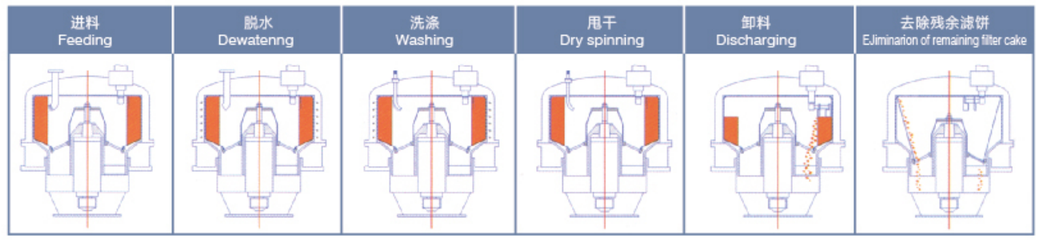
- The material to be separated is added into the high-speed rotating centrifuge drum through the feed tube. Under the action of centrifugal field, the material is filtered through the filter cloth, the liquid phase is discharged through the outlet tube, and the solid phase is intercepted in the drum. When the material is full, stop feeding, wash the cake, and filter out the washing liquid. The centrifuge continued to rotate and the cake was dried. After the filter cake meets the separation requirement, the centrifuge reduces the speed and scrapes the filter cake down from the bottom and discharges it out of the machine through the scraper. The centrifuge reduces the speed again, and the pneumatic bag shaking device moves up and down to shake off the residual filter cake, so as to realize the complete removal of the filter cake, thereby realizing the regeneration of the filter cloth.

主要特点 Main Features

- 抖袋式去除残余滤饼。通过气动抖袋装置的上下往复运动，将刮刀卸料残余的滤饼全部清除，实现完全卸料和滤布再生。
- 特殊设计的转鼓拦液板结构，自锁可靠，滤布更换方便、容易。
- 外置式气缸 + 连杆驱动设计，工作可靠。
- 全封闭式出料斗设计，使物料与传动机件完全隔离。

- Removing the residual solid cake by bag-shaking method. Eliminate all solid cakes left over the process of scraper discharging through reciprocal movement of the pneumatic pulling bag device, to realize complete discharging and filtering cloth regeneration.
- Design of removable lip ring in the basket with reliable self-locking, which is easy for changing the filter cloth.
- External cylinder+rod drive design , reliable in work
- Fully-enclosed discharge hopper design separating the material from the driving components of the centrifuge.

工作流程 Operating process





各程序段的转鼓速度 Basket Rotating Speed

LGZD
抖袋式刮刀下部卸料离心机
Bag-shaking Bottom Discharge Scraper Centrifuges



配置选择说明 Optional configurations

外形结构： 大开盖、全开盖及平盖多种结构
布料方式： 斜盘布料器、侧向布料管、中间布料管
刮刀卸料： 液压、气动
电机驱动： 普通电机、变频电机、防爆电机、能耗制动或回馈制动
安全防护： 防爆、振动保护、料满检测保护、开盖保护、温度保护、机电联锁、速度监测、过载保护、氮气保护系统
表面处理： 镜面抛光、亚光处理、钝化处理
电气元件： 品牌供应
残余滤饼处理： 抖袋装置清除残余滤饼
程序控制： 可编程序控制方式、DCS控制方式
在线清洗： 清洗球、喷淋管
氮气保护： 自动供氮装置、液封装置、气液分离器、氧含量检测系统
涂层处理： 衬HALAR（F30）、F40、F46、PFA

Shape Structure:
Large Open Cover, Full Open Cover and Flat Cover
Distribution mode:
Inclined plate distributor, lateral distributor and intermediate distributor
Scraper discharge:
Hydraulic and pneumatic
Motor Drive:
General Motor, Frequency Converter Motor, Explosion-proof Motor, Energy Consumption Brake or Feedback Brake
Safety protection:
Explosion proof, vibration protection, full material detection protection, open cover protection, temperature protection, electromechanical interlocking, speed monitoring, overload protection, nitrogen protection system

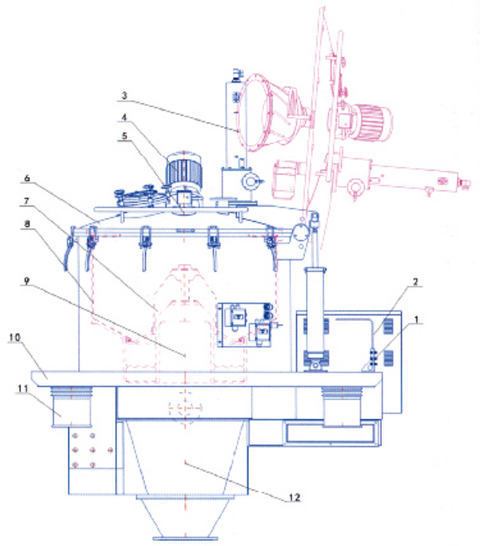
Surface treatment:
Mirror polishing, matte treatment, passivation treatment
Electrical Components:
Brand Supply
Residual cake treatment:
Shaking device to remove residual cake
Programming Control:
Programmable Control Mode and DCS Control Mode
On-line cleaning:
Cleaning balls and spray pipes
Nitrogen Protection:
Automatic Nitrogen Supply Device, Liquid Packaging Device, Gas-liquid Separator, Oxygen Content Detection System
Coating treatment:
Lining HALAR (F30), F40, F46, PFA

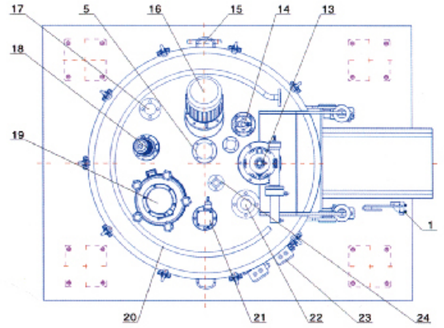






德高离心机 DEGAO CENTRIFUGE





1. 液压管路集成接口 Hydraulic hoses nozzle
2. 电机部件 Motor assembly
3. 刮刀装置 Scraper device
4. 斜盘布料装置 Inclined feed disk
5. 进料管 Feeding pipe
6. 上盖部件 Lid assembly
7. 抖袋装置 Bag-shaking device
8. 转鼓部件 Basket assembly
9. 主轴部件 Main Shaft assembly
10. 机座 Base
11. 减振器 Vibration isojator
12. 置换充氮口 Nitrogen nozzle
13. 刮刀装置 Scraper device
14. 雾化洗涤管 Washing pipe
15. 出液管 Liquid outlet
16. 斜盘布料装置 Inclined feed disk
17. 排空口 Evacuation pipe
18. 防爆照明灯 Ex light
19. 人孔视镜 Sight glass
20. CIP CIP
21. 料位检测装置 Cake layer controller
22. 排气口 Vent pipe
23. 集成接线口 Junction box
24. 充氮口 Nitrogen nozzle

PGD技术参数 / Technical Parameters

项目 Items	LGZD800	LGZD1000	LGZD1250	LGZD1600	LGZD1800
转鼓直径 Basket Dia (mm)	800	1000	1250	1600	1800
转鼓容积 Basket volume (L)	100	175	400	800	1250
最大装料限量 Max. load (kg)	135	235	500	1000	1500
转鼓转速 Max. Rolating speed (r/min)	1200/1500	1100/1200	1000/1200	850	800
分离因数 Centrifuge force	645/1008	677/805	700/1008	647	645
电机功率 Motor (kw)	7.5/11	15	22/30	37	55
外形尺寸 Dimension (LxWxH) (mm)	2050x1250x2000	2350x1450x2350	2550x1800x2550	3200x2400x3000	3500x2500x3300
机器重量 Weight (kg)	2000	3500	5000	10000	15000

LW
卧式螺旋卸料沉降离心机
Horizontal Screw Discharge Settling Centrifuge

工作原理 Operating principle

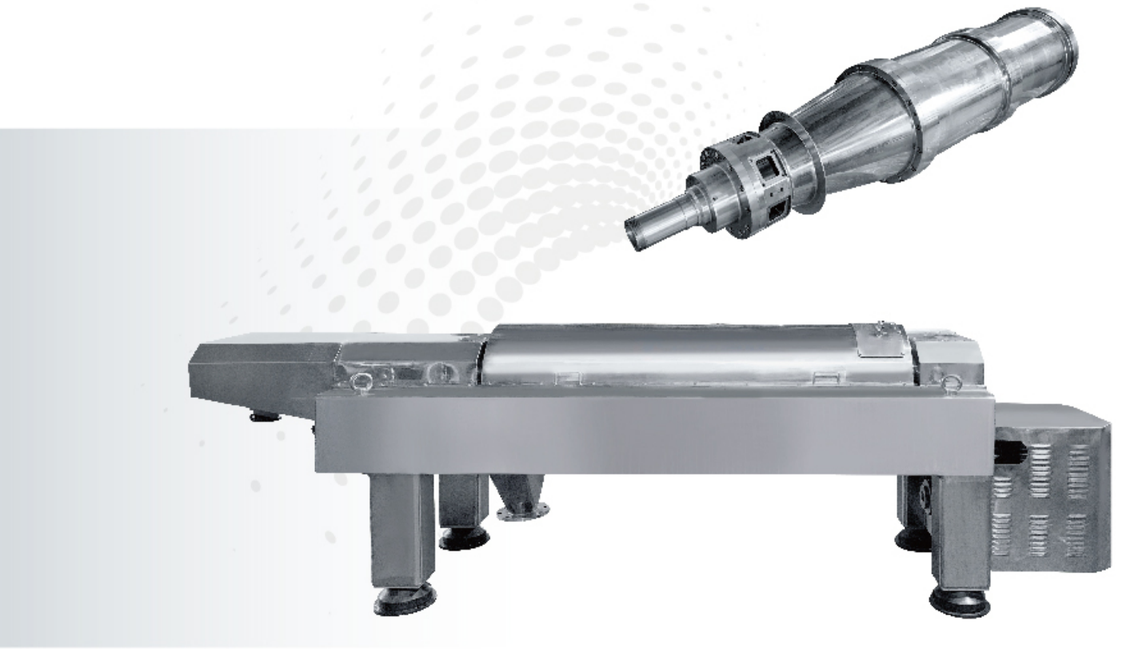
- 悬浮液从进料管经布料体分配进入转鼓，较大比重的固相颗粒在离心力场的作用下，加速沉降至转鼓壁上。沉降的固相在螺旋输送器叶片的推动下，从沉降区(圆柱转鼓)通过干燥区(圆锥转鼓)至固相出口排出；澄清后的液相从大端溢流口排出。从而实现固 - 液二相或固 - 液 - 液三相分离。

- Separation takes place in a horizontal bowl equipped with a scroll conveyor The process material is fed into the bowl through a stationary inlet tube and is smoothly accelerated in the accelerate chamber Centrifugal forces cause instant sedimentation of the solids on the wall of the bowl. The conveyor rotates in the same direction as the bowl, but at a different speed, thus moving the solids towards the conical end of the bowl.

主要性能和用途 Main applications

- LW 系列卧式螺旋卸料离心机为卧式，连续进料螺旋连续卸料的沉降心机，主要适用于化工、医药、环保、矿山、食品等行业悬浮液的固 - 液二相、固 - 液 - 液三相分离。

- LW series decanter centrifuge is a horizontal centrifuge with continuous feeding and continuous discharge. It is applicable for two-phase (solid-liquid) separation and three- phase (solid-liquid-liquid) separation in the chemical, pharmaceutical, environmental protection mining, food and other industries.



主要结构特点 Main constructional features

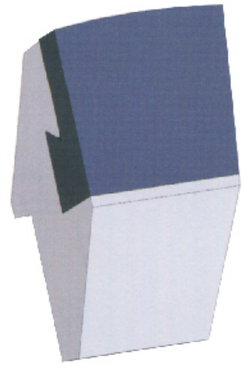
- 立式机座设计，电机与转鼓对称布局，机器运行平稳，振动烈度低。
- 转鼓、螺旋等主要零部件采用离心铸造耐蚀不锈钢或双相钢制造，极限转速高，分离因数大。
- 双电机控制，转鼓、螺旋转速分别无级可调。
- 螺旋输送器推料表面喷涂耐磨合金或镶焊硬质合金。
- 摆线齿轮行星齿轮和液压差速器三种结构选择，差速调节范围大，用于不同固相的推料扭矩传递。
- 多重安全保护：转速、差速检测，过振动保护，电机过载过热保护，轴承温度监控，螺旋推料扭矩保护、密闭防爆氮气保护等。
- JG 型专用橡胶减振器，无需地脚螺栓固定。

- Vertical base design and symmetrical arrangement of motor and bowl assembly that ensures stable operation and less vibration.
- Main parts such as the bowl and conveyor are made of corrosion-resistant stainless steel or duplex steel, offering high maximum bowl speed and high centrifugal force.
- Dual motor drive makes bowl speed and conveyor speed adjustable.
- Screw conveyor flights tiled or lined with ceramic, tungsten carbide, or other hard alloys.
- Optional planetary gearbox and hydraulic gearbox, offering wide range of differential speed adjustment.
- Multiple safety protection: bowl speed and differential speed detection, over-vibration protection, motor overload and overheat protection , bearing temperature monitoring , conveyor torque protection and gas-tight explosion-proof protection .
- JG type rubber vibration isolator no need of anchor bolts.

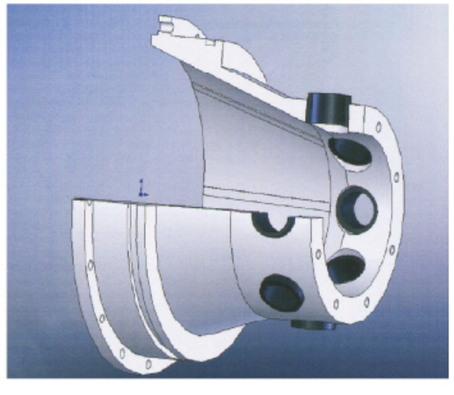
防磨损设计 Wear Protection

- 螺旋喷焊硬质合金粉末
- 螺旋表面镶嵌硬质合金耐磨块
- 转鼓内壁焊接高强度耐磨筋条

- Scroll with welded hard facing or spray coating
- Scroll inlaid with tungsten carbide tiles
- Bowl inner wall welding with high strength wear resistant strips



可更换硬质合金片，HRA89-90
Replaceable tungsten carbide tiles HRA89-90



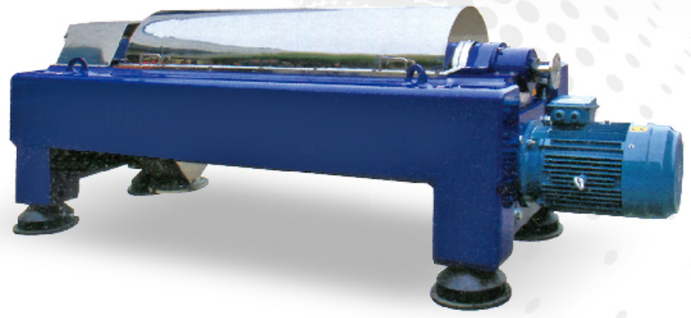
固相出料口
采用硬质合金锥套或陶瓷出料口
结构简单更换方便
维修成本低

Solid discharge port
Tungsten carbide or ceramic bushings
Simple structure and easily replacement
Low maintenance cost

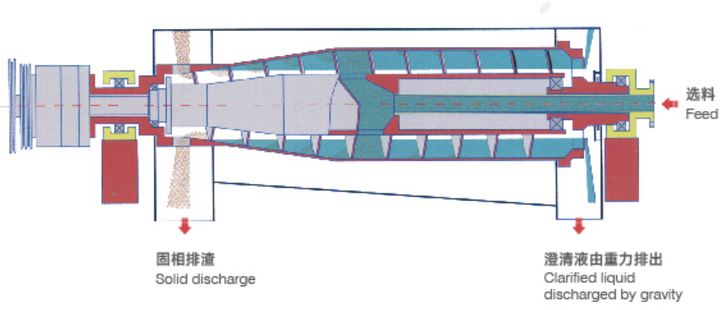
LW
卧式螺旋卸料沉降离心机(常规型)

Horizontal Screw Discharge Settling Centrifuge (Conventional Type)

- LW 系列常规机型转鼓两端采用迷宫式密封，分离后固相由螺旋推至固相出口，经高速旋转产生的离心力排出机外；分离后澄清液经过溢流口，由重力及离心力排出。该机型操作方便，运转连续、平稳，适用范围广。



- Labyrinth seal is used for both bowl ends of LW standard type decanter centrifuge, simple and convenient, after separation, the solid phase is conveyed to the solid discharge port by scroll conveyor, and discharged out of centrifuge under centrifugal force caused by high speed rotation; while the liquid phase drains out under gravity and centrifugal force through the overflow plate. This series decanter centrifuge features easily operation, continuous and stable running, and wide application scope



LW技术参数 / Technical Parameters

型号 Models	转鼓直径(mm) Bowl Diameter	长径比 L/D Ratio	转鼓转速(r/min) Bowl Speed	分离因数 G-force	主电机功率(kw) Main Motor Power	机器重量(kg) Weight	外形尺寸(mm) Dimension(LxWxH)
LW220x880	220	4	4800	2840	7.5-11	1000	2650x750x750
LW335x1460	350	4.17	4000	3100	22	2020	3550x1000x1050
LW450x1800	450	4	3200	2577	30-37	3500	4100x1050x1250
LW450x2025	450	4.5	3200	2577	30-37	3800	4550x1050x1250
LW530x2120	530	4	2800	2327	45-55	4200	4750x1250x1450
LW530x2650	530	5	2500	2150	37-55	4500	5050x1450x1750
LW630x2300	630	3.65	2500	2205	75	8000	5350x1700x1550
LW650x2800	650	4.3	2500	2270	90	9600	5350x1700x1550
LW1000x3000	1000	3	1500	1258	132	16000	5150x2500x1950

德高离心机 DEGAO CENTRIFUGE

LWX
卧式螺旋卸料沉降离心机(向心泵出液型)

Decanter Centrifuge (Impeller Liquid Discharge)

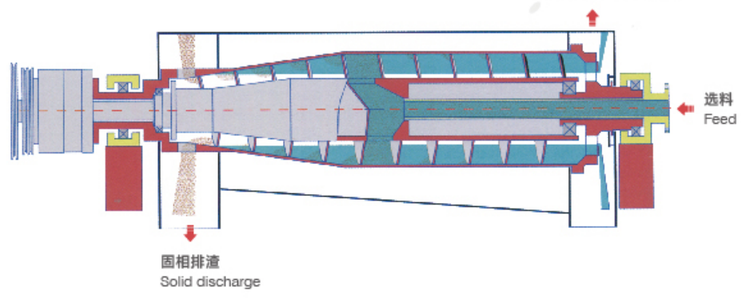






澄清液经压力排出
Clarified liquid
discharged by pressure

- 该机型主要用于物料的固一液分离。转鼓和螺旋以差速同向高速旋转，物料经进料管进入。在离心力作用下，固相物料沉积在转鼓壁上形成沉渣层，液相物料形成液相环，由转鼓壁开始向内依次形成固相层和液相层。螺旋将沉积在转鼓壁上的固相物料连续不断的推至转鼓锥端，经排渣口排出机外。液相经转鼓大端向心泵排出。



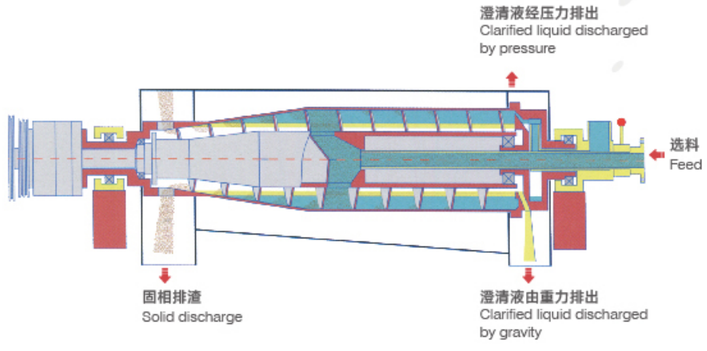
- This machine type is used for solid-liquid separation of materials. The bowl rotates in the same direction as the spiral, but at a different speed. Material is fed into the bowl through the feed pipe. With the centrifugal force, the solid phase materials deposit on the bowl wall and form a sediment layer The liquid phase materials forms a liquid phase ring and a solid phase layer and a liquid phase layer successively from the bowl wall to the inward. The liquid phase then is discharged out through the bowl' s centripetal pump at the large end.

LW技术参数 / Technical Parameters

型号 Models	转鼓直径(mm) Bowl Diameter	长径比 L/D Ratio	转鼓转速(r/min) Bowl Speed	分离因数 G-force	主电机功率(kw) Main Motor Power	机器重量(kg) Weight	外形尺寸(mm) Dimension(LxWxH)
LWX355x1460	350	4.17	4000	3100	22	2020	3250x1000x1050
LWX420x1680	420	4	3500	3080	30-37	3500	3450x1350x1300
LWX530x2120	530	4	3200	3040	45-55	4200	4050x1650x1450

LWS
螺旋卸料沉降离心机(三相分离型)
Screw Discharge Sedimentation Centrifuge
(Three-phase Separation Type)





- 该机型主要用于液 - 液 - 固分离，即对一种固相（密度最大）和两种密度不同的液相进行分离。转鼓和螺旋以差速同向高速旋转，物料经进料管进入。在离心力作用下，固相物料沉积在转鼓壁上形成沉渣层，两种液相物料分别形成轻液相环和重液相环，由转鼓壁开始向内依次形成固相层、重液相层和轻液相层。螺旋将沉积在转鼓壁上的固相物料连续不断的推至转鼓锥端，经排渣口排出机外。轻液相由转鼓大端的溢流口连续溢出，重液相经转鼓大端向心泵排出。从而实现三相分离。

- LWS series three phase decanter centrifuge is used for solid-liquid-liquid separation, namely one kind of solid phase (with largest specific gravity) and two kind of immiscible liquid phase with different density The conveyor rotates in the same direction as the bowl, but at a different speed, the material is fed into the bowl through a stationary feed pipe. Centrifugal forces cause instant sedimentation of the solids on the wall of the bowl, while two liquid phases forming light liquid phase layer and heavy liquid phase layer Scroll conveys the solids towards the conical end of the bowl, and out of centrifuge from solid discharge port. The light liquid phase then is discharged out continuously through the overflow port at the large end of the bowl, and the heavy liquid phase will be discharged out through the centrifugal pump large end of the bowl, thus realizing the three-phase separation.

LWS技术参数 / Technical Parameters

型号 Models	转鼓直径(mm) Bowl Diameter	长径比 L/D Ratio	转鼓转速(r/min) Bowl Speed	分离因数 G-force	主电机功率(kw) Main Motor Power	机器重量(kg) Weight	外形尺寸(mm) Dimension(LxWxH)
LWS355x1460	350	4.17	4000	3100	22	2020	3250x1000x1050
LWS420x1680	420	4	3500	3080	30-37	3500	3450x1300x1300
LWS530x2120	530	4	3200	3040	45-55	4200	4050x1650x1450

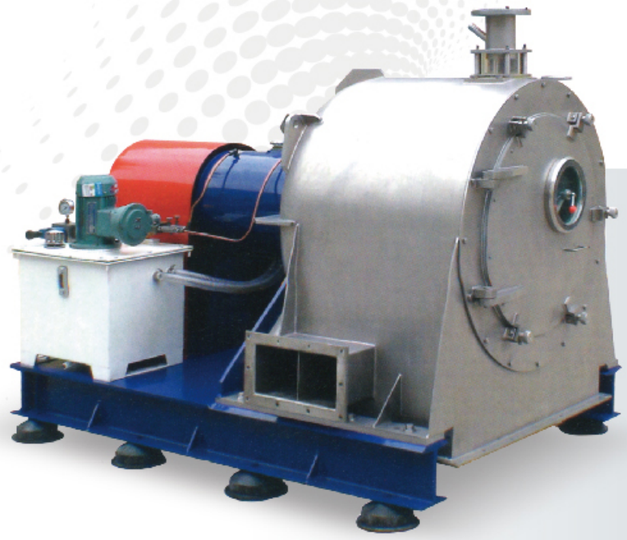
德高离心机
DEGAO CENTRIFUGE

LWL
卧式螺旋卸料过滤离心机
Horizontal Screen Worm Centrifuges

工作原理 Operating principle

- LWL 型卧式螺旋卸料过滤式离心机是种能耗低、性能稳定、分离效果好的机型。分离过程中的进料、脱水、洗涤、卸料等工序连续完成，生产效率和自动化程度高，是种先进的固液分离设备。

- 悬浮液从进料管进入螺旋内腔，并通过螺旋小头接近锥端底部的喷料口进入转鼓，在离心力场的作用下，料浆中的液相通过铺设在转壁上的筛网被过滤出去，固相颗粒则被截留在转鼓内；同时，转鼓内的固相颗粒在离心力和螺旋与转鼓之间的相对差速作用下，从转鼓小端向转鼓大端运动，在此运动过程中，由于回转直径的加大，离心力得到快速递增，固相从初始进入时的较高含湿量到排出转鼓时达到最低含湿量固相，从而实现固液相自动、连续的分离。



- 离心机内置洗涤管，可在滤饼过滤的同时对滤饼进行洗涤。由于是薄层滤饼洗涤，洗涤效果好，洗涤液消耗低。
  在转鼓背面可设计蒸汽管，对转鼓背面结晶的物料进行高温洗涤。
  螺旋差速器有摆线差速器，行星差速器和液压差速器三种配置，满足不同物料的分离。

- LWL series conveyor discharge screen centrifuge is the one with low energy consumption, stable performance and good separating effectiveness. The separation processing from feeding to dewatering, cleaning and discharging is continuous with high processing efficiency and high degree of automation. Jt is the advanced separation equipment.

- The feed suspension is introduced to the centrifuge through a feed pipe and into the feed distribution chamber and is jetted into the basket through the hole near the cone point of the convelior. Under centrttugal force the solids filtrate tr.m the liquid and settle against the basket wall, while the clarified liquid exits over the overflow screen. The solids in the conical basket are conveyed up from the smaller end to the bigger end while the conveyor turns at a slightly different speed. The bigger diameter is, the bigger centrifugal force produces to separate the liquid/solids. The solids are dried when they are drained out the basket.

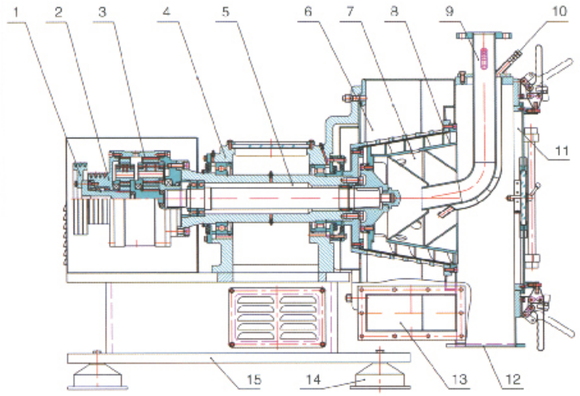
- The washing pipe incorporated in the centrifuge can not only filter the solid cake, but also wash the cake. The thin cake washing achieves good effects of washing and consumes low amount of washling Jiquid.
  A steam pipe may be provided on the back of the basket so as to wash the crystattized m als on the back at high temperature
  Gearbox: cycloidal gearbox, planetary gearbox and hydraulic gearbox so as to suit for separation of different materials.

LWL
卧式螺旋卸料过滤离心机
Horizontal Screen Worm Centrifuges

主要性能和用途 Main applications

- LWL 卧式螺旋卸料过滤式离心机广泛应用于化工、食品、盐、采矿、制药等行业。因其分离原理和结构特性，其对物料的针对性也较强，主要适用于具有较大颗粒度，对颗粒破碎没有严格要求的物料。在选型时应进行物料分析和相应的试验，以确定其适用和分离性能。

- LWL horizontal screw discharge filter centrifuge is widely used in chemical, food, salt, mining, pharmaceutical and other industries. Because of its separation principle and structural characteristics, it has strong pertinence to materials. It is mainly suitable for materials with large particle size and no strict requirements for particle breakage. Material analysis and corresponding tests should be carried out in order to determine its applicability and separation performance.



1. 差速带轮 Diffarential speed belt pulley
2. 转鼓带轮 Basket belt pulley
3. 差速器 Gearbox
4. 主轴箱 Headstock
5. 主轴传动 Spindle transmission
6. 机壳 Shell
7. 内螺旋 Internal spiral
8. 外转鼓 Outer drum
9. 进料管 Feeding pipe
10. 洗涤管 Washing pipe
11. 门盖 Lid
12. 出料口 Solid outlet
13. 出液口 Liquid outlet
14. 减振器 Vibration isolator
15. 机座 Base

LWL技术参数 / Technical Parameters

项目 Items	LWL320	LWL350	LWL450	LWL530	LWL630	LWL800	LWL1000
转鼓直径 Basket Dia(mm)	320	350	450	530	630	800	1000
转鼓转速 Max. Rolating speed(r/min)	2630	3000	2500	2000	1800	1400	900
分离因数 Centrifuge force	1240	1770	1580	1190	1140	870	445
生产能力 Productivity(m^3/h)	0.5-3	1-5	2-8	3-10	5-15	8-20	10-50
主电机功率 Main Motor Power(kw)	7.5	11	22	30	37	55	75
机器重量 Weight (kg)	700	1200	1700	2500	3500	4000	6200
外形尺寸 Dimension (LxWxH)(mm)	1350x1050x1000	1550x1150x1050	1650x1350x1200	1650x1400x1350	2100x1550x1650	2300x2200x1750	3200x2150x2250

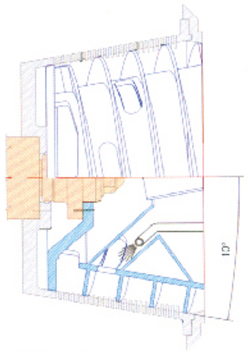
德高离心机 DEGAO CENTRIFUGE

主要特点 Main features

- 转鼓、螺旋等主要零件采用优质耐蚀不锈钢、钛合金等材料制造。
- 转鼓角度按工艺条件 10°、20°可选。
- 专用过滤金属板网（厚度 0.4-0.5mm）或梯形丝成型网(厚度 4.5-5mm)可选。
- 变频控制，转鼓转速无级调速。
- 进料、分离、洗涤、脱水、推料连续完成，处理量大。
- 独立的润滑系统，润滑方式简单可靠，冷却效果好。
- 安全保护：可配置转速检测，过振动保护，电机过载过热保护。
- 对于大粘度物料，可选用液压差速器，工作稳定可靠。

- Main parts such as basket and conveyor are made of high- quality corrosion- resistant stainless steel and titanium alloy;
- 10 ° and 20 ° available for basket angle depending on the process conditions;
- Special filter metal plate-net(thickness 0.4 - 0.5mm) or trapezoid wire forming mesh (thickness 4.5 - 5mm) for optional;
- Variable-frequency control with stepless regulation basket rotating speed;
- Feeding, filtration, washing, dewatering and discharging to be done continuously offering large capacity;
- Independent lubrication system with simple and reliable lubrication means but good cooling effects;
- Safety protection: speed detection, over-vibration protection, motor overload and overheat protection,etc;
- Reliable and stable hydraulic gearbox for materials with high viscosity.

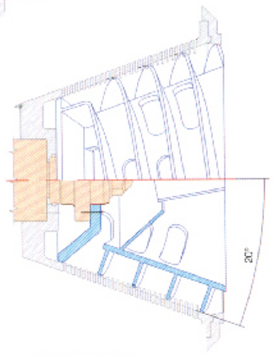
转鼓锥角 Basket angle



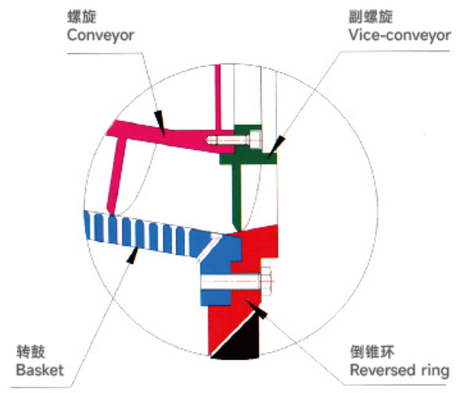
转鼓锥角10°
Basket angle 10°

10°：当要求对滤饼进行洗涤时首选这个角度的转鼓。
20°：这个标准角度对大多数物料的分离被证明是极好的，固相从小头到大头随着越来越大的离心力滑动，几乎不需要螺旋太大的推动力。

10° When washing is required, the 100 basket angle is the first choice.
20° This standard angle has been proven to be perfect for separating most of materials No large pushing force is required from the conveyor because the solid phase slips from the small end to the large end with the increased centrifugal force.

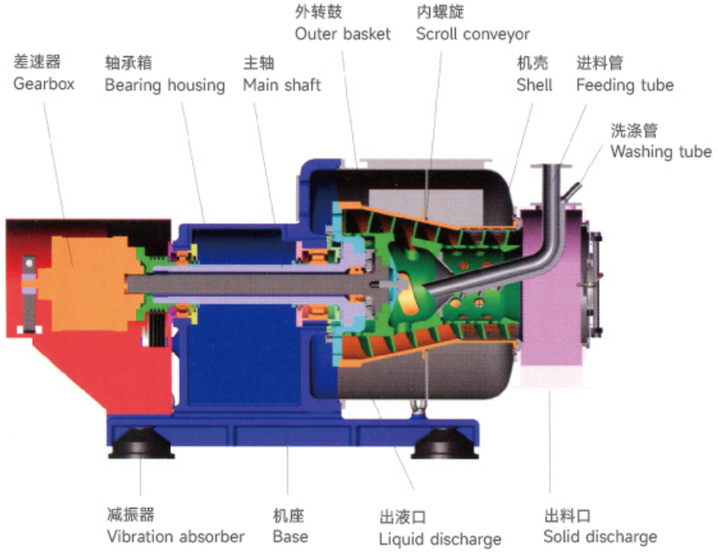


转鼓锥角20°
Basket angle 20°



LWLZ
浓缩过滤离心机
Thickening Screen Worm Centrifuge

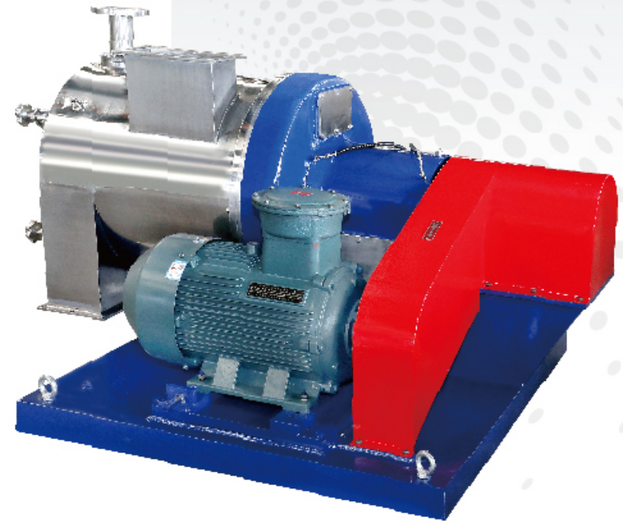




工作原理 Operating principle

- 该机型是悬臂式浓缩过滤组合式离心机，在两个不同的分离阶段上将卧式螺旋卸料沉降离心机与卧式螺旋卸料过滤离心机的工作原理和特点结合起来，达到最佳的分离效果。
- 在第一个固液分离阶段，物料在转鼓沉降区域脱水，将分离浓缩后的固体推至过滤区域，清液则从出溢流口排出；在第二个固液分离阶段，浓缩过的物料在过滤转鼓中脱水进一步降低固相中的含水率。
- 该机型特别适用于化工、制药等行业中的固液分离，其具有处理量大，分离后的固相含湿量低等特点。尤其针对母液含固量低或者母液中含少量油性、胶体物质的工况、效果更明显。

- It is a combination of a solid bowl decanter centrifuge and a screen worm centrifuge with exceptional dewatering results.In the decanter component, the feed suspension is first pre-thickened, i.e. it is extensively dewatered in the conical part of the solid bowl The liquid is clarified in the cylindrical part and finally discharged.
- The pre-thickened solids are transported into the cylindrical screen section by the worm where additional dewatering is achieved.
- This centrifuge is particularly applicable for the solid-liquid separation in chemical pharmaceutical and other industries. It features large processing capacity and low moisture rate of solid content.Especially for conditions that mother liquid with low solid concentration or mother liquid with small amount of oil substance, with better effect.







LWLZ技术参数 / Technical Parameters

型号 Models	转鼓直径(mm) Bowl Diameter	转鼓转速(r/min) Bowl Speed	分离因数 G-force	生产能力(m^3/h) Productivity	主电机功率(kw) Main Motor Power	机器重量(kg) Weight	外形尺寸(mm) Dimension(LxWxH)
LWLZ450	450	2500	1574	2-6	37	2500	1750x1400x1450
LWLZ650	650	1600	931	3-8	55	4000	2600x1700x1950
LWLZ900	900	1200	725	5-15	75	5000	2900x2150x2350

HR
活塞推料过滤离心机
Piston Push Filter Centrifuge

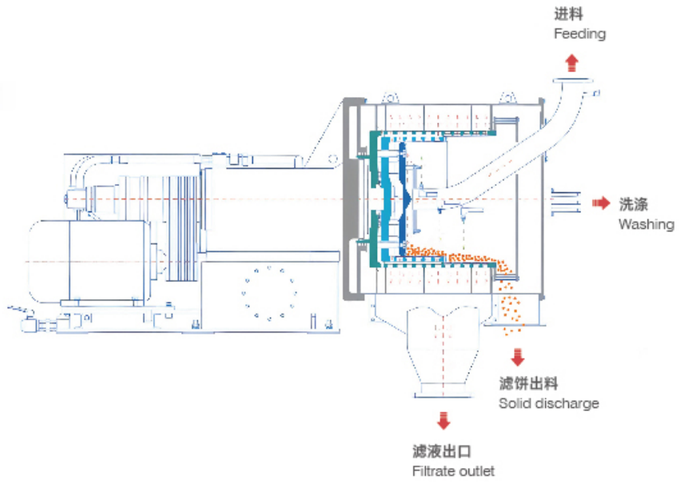
- HR 系列活塞推料离心机是一种连续进料、间歇出料的过滤式离心机。
- 主要由液压系统、推料机构、机座、机壳、传动、转鼓、等零件组成，可在全速运转下实现连续进料、分离、洗涤、卸料等工序。

- HR series piston push centrifuge is a filter centrifuge with continuous feed and intermittent discharge.
- It is mainly composed of hydraulic system, pushing mechanism, frame, shell, transmission, drum and other parts, which can realize continuous feeding, separation, washing, unloading and other processes under full speed operation.



工作原理 Operating principle

- 主电机带动传动装置全速运转，物料由进料管引入内转鼓，在离心力作用下均匀分布到内转鼓滤网壁上，液相物通过滤网和转鼓壁孔流入排液管，固相物被滤网截留并在内转鼓内形成滤饼层。
- 内外转鼓同速旋转，在活塞推动下，内转鼓连续轴向往复运动，在推料盘推动下，物料由内转鼓排出进入外转鼓进一步分离并形成环形滤饼层，在内转鼓外端面往复推动下，间歇不断的排出外转鼓，经刮料槽配出机外。



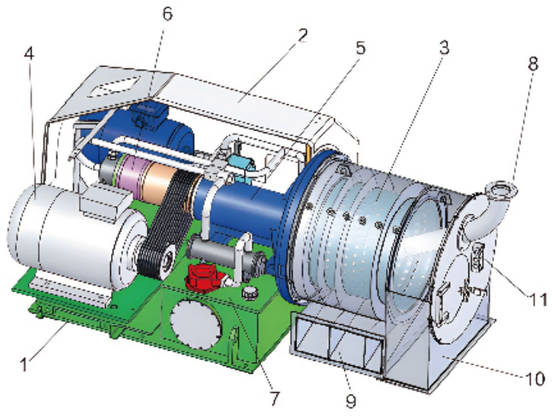
- The main motor drives the transmission device to run at full speed, the material is introduced into the inner drum by the feed pipe, and evenly distributed to the wall of the inner drum filter screen under the action of centrifugal force. The liquid phase flows into the liquid discharge pipe through the filter screen and the hole in the wall of the drum, and the solid phase is trapped by the filter screen and forms a filter cake layer in the inner drum.
- The inner and outer drum rotates at the same speed, driven by the piston, the inner drum continues to reciprocate axially, pushed by the pusher plate, the material is discharged from the inner drum into the outer drum to further separate and form a ring cake layer, and the outer end of the inner drum is pushed reciprocally, and the outer drum is continuously discharged and distributed out of the machine through the scraping groove.

德高离心机 DEGAO CENTRIFUGE

主要性能和用途 Main applications

- HR 系列离心机为卧式双级活塞推料连续操作的过滤式离心机。他在全速下完成所有的操作工序，如进料、分离、洗涤、干燥和卸料等。适用于含中颗粒的结晶状或短纤维状的浓悬浮液的分离（晶状物粒子尺寸 0.1-10mm、短纤维 30mm 以内），广泛用于化工、化肥、制盐、制药、食品、轻工等工业部门。
- HR 系列离心机具有自动连续操作、连续排渣、生产能力高、对晶粒不易破碎、滤渣可洗涤等传统优点外，还具有高滤渣生产量、高固体回收率、低滤渣含湿量、低能量消耗等特点。
- 应用物料范例：氯化钠、硫酸钠、硝酸钠、硫酸锌、重络酸钠、硫酸铵、硼酸、醋酸纤维、硝化纤维、尿素、氯化钾、硫酸钾、碳酸钾、磷酸盐、七水硫酸亚铁、丙烯酰胺、小苏打、硝化纤维、磷酸一铵、氯化铵、草酸、烟气硫胺、元明粉等。

- HR series centrifuge is a horizontal two-stage piston pushing filter centrifuge with continuous operation. He performs all operations at full speed, such as feeding, separation, washing, drying and unloading. It is suitable for the separation of crystalline or short fibrous suspension containing medium particles (crystal particle size 0.1-10mm, short fiber within 30mm), widely used in chemical industry, chemical fertilizer, salt making, pharmaceutical, food, light industry and other industrial sectors.
- HR series centrifuge has automatic continuous operation, continuous slag discharge, high production capacity, not easy to break grain, filter slag can be washed and other traditional advantages, but also has high filter slag production, high solid recovery, low filter slag moisture content, low energy consumption and other characteristics.
- Examples of application materials: Sodium chloride, sodium sulfate, sodium nitrate, zinc sulfate, sodium bicarbonate, ammonium sulfate, boric acid, acetate fiber, nitrocellulose, urea, potassium chloride, potassium sulfate, potassium carbonate, phosphate, ferrous sulfate heptahydrate, acrylamide, baking soda, nitrocellulose, mono-ammonium phosphate, ammonium chloride, oxalic acid, flue gas thiamine, sodium powder, etc.

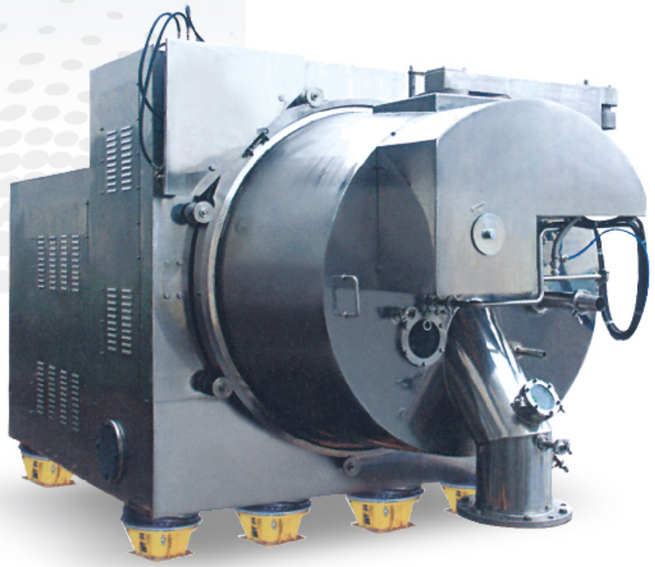


1. 机座 Base
2. 机壳 Shell
3. 转鼓 Basket
4. 电机 Motor
5. 传动装置 Transmission device
6. 推料机构 Pushing mechanism
7. 液压系统 Hydraulic system
8. 进料管 Feeding pipe
9. 出液口 Liquid discharging port
10. 出料口 Discharge port
11. 洗涤管 Washing pipe

HR技术参数 / Technical Parameters

项目 Items	HR400	HR500	HR630	HR800
转鼓直径 Basket Dia (mm)	337/400	430/500	560/630	720/800
过滤区长度 Filter area length (mm)	320	360	480	600
转速 Speed (r/min)	1500-2400	1200-2100	1000-1800	800-1600
分离因数 Separation Factor	504-1290	403-1235	353-1143	286-1146
推料行程 Pushing stroke (mm)	40	50	50	50
推料次数 Pushing times (N/min)	30-80	50-70	30-80	30-80
主电机功率 Power of Driving Motor (kw)	7.5-15	30-55	45-75	55-90
油泵电机功率 Motor power of oil pump (kw)	5.5	22	30	45
机器重量 Weight (kg)	2400	3600	3900	6100
外形尺寸 Dimension (LxWxH)(mm)	2100x1550x1650	2100x1550x1650	2100x1550x1650	2100x1550x1650

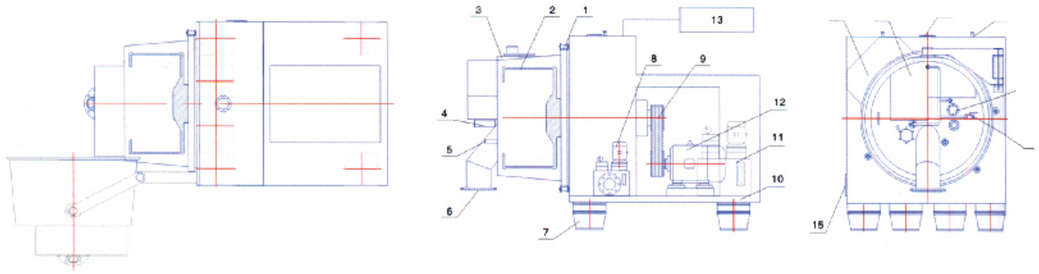
GKF
洁净型卧式刮刀卸料离心机
Clean Horizontal Scraper Discharge Centrifuge



- GKF 洁净型卧式刮刀卸料离心机是连续运转、批处理操作的过滤式离心机，结构和系统设计符合制药行业中的 GMP 要求，批处理循环时间短，处理量大，并可获得较好的过滤（滤饼含水率低）和洗涤效果。离心机主要性能和用途为：
- 隔墙式安装形式设计，工作区域与机座、传动、液压、润滑等结构装置完全隔离；独立式液压系统和润滑系统；配置全自动在线监测的氮气保护系统；在线清洗系统；气体反吹式残余滤饼去除装置；在线灭菌系统；PLC 可编程控制、变频调速、电阻式能耗制动等。
- 离心机操作过程中的进料、分离、洗涤、脱水、卸料及滤布再生、在线清洗、在线灭菌、氮气保护等过程按预先设定的程序运行。控制方式为全自动控制，也可脱机手动操作。
- GKF 洁净型卧式刮刀卸料离心机适用于粘度小、卫生要求高、有毒 有害、易燃易蚀介质的固液分离。主要用于制药、食品等工业领域的生产。

- GKF pharma Peeler Centrifuge is filter type centrifuge with continuous running and batch operation, GMP requirements have been full taken into consideration in structure and system design, batch time is short, its processing capacity is large, it may achieve rather dry sludge(Filter cake contains low moisture) and good washing effect.
- Clean room installation fully separates the working area from machine stand , drive, hydraulic, lubrication device, it is allocated with nitrogen protection system, CIP system, Online sterilization system, PLC program control, inverter start-up, high speed resistance dynamic braking.
- Feeding, filtration, washing, dewatering, discharging and regeneration of filter cloth, CIP Online sterilization, nitrogen protection are operated by pre-set programs. The control system includes automatic control and manual control.
- GKF pharma peeler centrifuge is suitable for solid-liquid separation for hazardous, toxic and flammable medium with small viscosity and high sanitation requirements. It is mainly used in solid-liquid separation of medicals and food industries.

德高离心机 DEGAO CENTRIFUGE



1. 锁紧装置 Locking device
2. 转鼓 Basket
3. 外壳翻盖 Turn-cover lid
4. 进料管 Feeding pipe
5. 洗涤管 Washing pipe
6. 出料管 Drain pipe
7. 减振器 Vibration isolator
8. 润滑系统 Lubrication system
9. 传动部件 Transmission assembJy
10. 机座 Base
11. 液压站 Hydraulic station
12. 主电机 Main motor
13. 氮气保护系统 Nitrogen protection system
14. 刮刀系统 Scraper assembly
15. 出液管 Drain pipe
16. 料层控制器 Cake layer controller
17. 气体反吹 Gas counter-blow
18. 排气管 Vent pipe

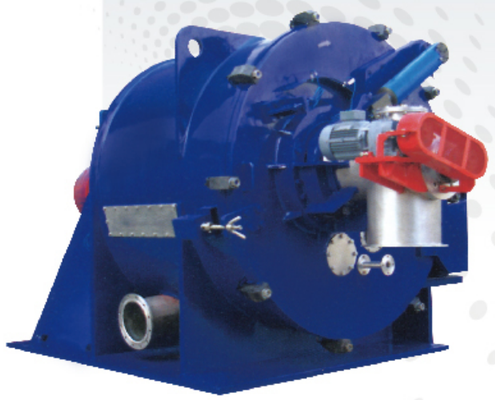




GKF技术参数 / Technical Parameters

项目 Items	GKF800	GKF1000	GKF1250	GKF1600
转鼓直径 Basket Dia (mm)	800	1000	1250	1600
转鼓长度 Basket Lenght (mm)	400	500	625	800
转鼓容积 Basket volume (L)	100	172	340	690
最大装料限量 Max. load (kg)	125	240	425	950
转鼓转速 Max. Rolating speed (r/min)	1600	1400	1200	950
分离因数 Centrifuge force	1145	1090	1007	808
电机功率 Motor (kw)	30	37	55	90
外形尺寸 Dimension (LxWxH) (mm)	2500x1850x1800	2450x1800x2000	3850x2450x2100	4200x2700x2800
机器重量 Weight (kg)	5500	8500	16000	20000

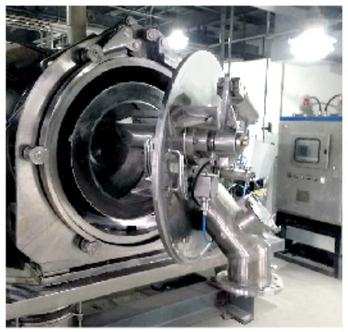
GK/GKH
卧式刮刀卸料离心机
Horizontal Scraper Discharge Centrifuge



主要特点及配置选择 Main features and configurations

- 采用 PLC 可编程序控制，可实现远距离监控、触摸屏操作人机对话，操作维护方便。
- 动作元件采用电 - 气 - 液压自动控制。
- 多重安全保护：转速检测、过振动保护、开盖保护、电机过载过热保护、刮刀旋转机械／电气双重控制。
- 焊接式整体机架，结构紧凑，机器承载强度高。
- 全密闭结构，密封件采用硅橡胶或氟橡胶等。
- 独立式液压站，可隔离安装、方便检修。
- 采用变频控制，转鼓速度无级可调。可按要求设定进料、分离、洗涤、脱水、卸料等工艺速度。
- 浮动平台底座，橡胶减振基础。亦可选用液态阻尼减振器，减振效果优越，机器运转平稳，减小机器振动对设备和环境的危害。
- 一种出料方式选择：斜槽开放式出料结构简单；螺旋输送器与刮刀集成卸料，滤饼收集率高，有效防止堵料。
- 虹吸式离心机具备虹吸推动力，过滤速度更快。可配置反冲洗装置，对过滤介质进行洗涤，实现滤布再生。还可配置撇液装置。适用含蛋白等胶体物质的物料分离。





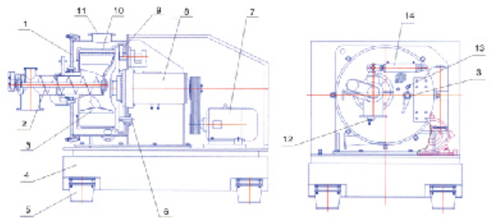
GK技术参数 / Technical Parameters

项目 Items	GK800	GK1000	GK1250	GK1600
转鼓直径 Basket Dia (mm)	800	1000	1250	1600
转鼓长度 Basket Lenght (mm)	450	500	625	800
转鼓容积 Basket volume (L)	100	165	370	690
最大装料限量 Max. load (kg)	135	225	500	930
转鼓转速 Max. Rolating speed (r/min)	1550	1400	1200	950
分离因数 Centrifuge force	1080	1090	1007	808
电机功率 Motor (kw)	30	37	55	90
外形尺寸 Dimension (LxWxH) (mm)	2550x1850x1350	2400x2150x1700	3450x3300x2500	4200x2750x2300
机器重量 Weight (kg)	3500	6000	7500	15000

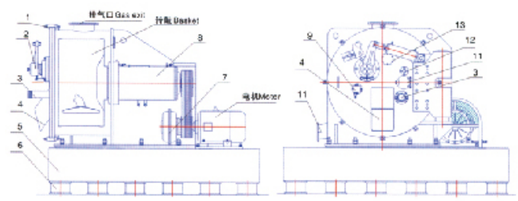
德高离心机 DEGAO CENTRIFUGE

- PLC control for long-distance monitoring, touch-screen operation and human-machine dialogue for easy maintenance and operation.
- Action elements with automatic electric- pneumatic/hydraulic control.
- Safety protection: includes rotation speed monitoring, over-vibration protection, cover opening protection, motor overload and overheat protection, dual control with both mechanical and electrical for scraper
- Welded machine case, strong and rationally design structure.
- All seals are made of the fluorous rubber and silicon rubber. Independent hydraulic station can be installed separately convenient to repair.
- The drum speed can be adjusted steplessly by frequency conversion control. The process speed of feeding, separating, washing, dewatering and unloading can be set as required.
- Floating platform with rubber vibration-absorbing foundation;
- Liquid -damping vibration absorber is also available with excellent effects of absorbing effects, ensures stable operation of the centrifuge and reducing hazards imposed to the equipment and environment from the centrifuge vibration.
- Two discharging modes available: chute discharging featuring simple construction; and discharging through scroll conveyor and scraper featuring high catching rate of solid cake and effectively prevent blocking.
- The siphon centrifuge has the siphon driving force and the filtering speed is faster. A backwash device can be configured to wash the filter medium and regenerate the filter cloth. It can also be equipped with skimming device. It is suitable for material separation of colloidal substances such as proteins.

GKH



GK



1. 门盖 Lid
2. 螺旋输送器 Screw conveyor
3. 进料管 Feeding pipe
4. 浮动平台 Floating platform
5. 减振器 Vibration isolator
6. 反洗装置 Back washing device
7. 主电机 Main motor
8. 传动部件 Transmission assembly
9. 虹吸管 Siphon
10. 转鼓部件 Basket assembly
11. 排气口 Vent pipe
12. 料位探测器 Cake layer controller
13. 洗涤管 Washing pipe
14. 刮刀油缸 Oil cylinder of scraper

1. 锁紧装置 Locking device
2. 刮刀装置 Scraper device
3. 进料管 Feeding pipe
4. 出料口 Solid outlet
5. 隔振块 Vibration isolator block
6. 减振垫 Shock absorber cushion
7. 液力偶合器 Hydraulic coupling
8. 轴承座 Bearing seat
9. 料层控制 Cake layer controller
10. 出液管 Drain pipe
11. 检查手孔 Check hole
12. 洗涤管 Washing pipe
13. 备用口 Spare opening

GKH技术参数 / Technical Parameters

项目 Items	GKH800	GKH1000	GKH1250	GKH1600
转鼓直径 Basket Dia (mm)	800	1000	1250	1600
转鼓长度 Basket Lenght (mm)	450	500	625	1000
转鼓容积 Basket volume (L)	100	165	370	830
最大装料限量 Max. load (kg)	135	225	500	1000
转鼓转速 Max. Rolating speed (r/min)	1550	1400	1200	950
分离因数 Centrifuge force	1080	1090	1007	808
电机功率 Motor (kw)	45	55	90	132
外形尺寸 Dimension (LxWxH) (mm)	2550x1850x1350	2400x2150x1700	3450x3300x2500	4550x2750x2300
机器重量 Weight (kg)	4000	6500	8000	17000