



JIANGSU BLOVEBIRD CENTRIFUGE CO.,LTD

202 County Road, Sanxing Street, Jinfeng Town, Zhangjiagang City, Suzhou City

Horizontal worm screen centrifuge, also called **continuous centrifuge**, has the advantages of large production capacity, good solid phase dehydration, low energy consumption and light weight. As a high-efficiency separation equipment, it is widely used in chemical, food, pharmaceutical and mining industries, and is suitable for the separation of solid-phase suspensions containing coarse crystals and short fibers. In particular, it is easy to dehydrate and separate high concentration suspensions.

However, **worm screen centrifuge** is very specific to the material, and the crystal size is required to be between 0.05-10mm, and the LWL series centrifuge is easy to cause the material crystal to break. The advantages of **Blovebird worm screen centrifuge** compared with other centrifuge manufacturers:

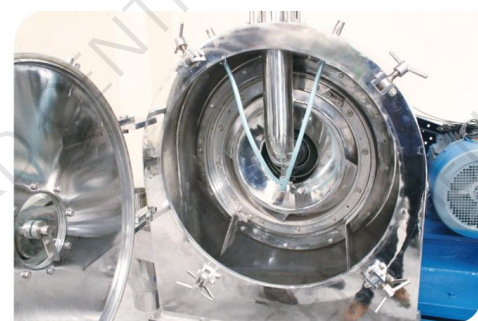
The improvements made by Blovebird in ammonium sulfate, ammonium chloride, ammonium thiocyanate, sodium chloride and other waste liquid salt extraction equipment:

1. The feeding pipe device is improved, the cloth is more uniform, and the equipment operation is more stable;
2. The lubrication system is improved, the lubrication is more adequate and reasonable, and the bearing weight is increased;
3. Improve the bearing sealing system and adopt labyrinth oil seals to prevent mother liquid from entering the lubrication system;
4. The drum spiral is treated with nitriding and wear-resisting, and the service life is longer.
5. The discharging system is improved, and a scraper device is added to prevent the silo from accumulating.



Working principle of worm screen centrifuge LWL

The suspension enters the spiral cavity from the feed pipe, and enters the drum through the nozzle at the bottom of the screw head near the bottom of the cone. Under the action of the centrifugal force field, the liquid phase in the slurry is separated by the screen set on the rotating wall. When going out, the solid particles are trapped in the drum; at the same time, the solid particles in the drum move from the small end of the drum to the big end of the drum under the action of centrifugal force and the differential speed between the spiral and the drum. During the movement, the centrifugal force increases rapidly due to the increase of the rotation diameter. The solid phase changes



from the high moisture content solid phase when it initially enters to the low moisture content solid phase when it is discharged from the drum, thus realizing automatic and continuous solid and liquid phase separation.

LWL worm screen centrifuge is a model with low energy consumption, stable performance and good separation effect. It is widely used in chemical, food, salt, mining, pharmaceutical and other industries (we have experience in the successful separation of dozens of materials, and we can communicate with our technicians when selecting models to obtain more detailed information). In the separation process, the feeding, dehydration, washing, unloading and other procedures are continuously completed, and the production efficiency and automation procedures are high. It is an advanced separation equipment.



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However, due to its separation principle and structural characteristics, it is also more specific to materials. Material analysis and corresponding tests should be carried out when selecting models to determine its applicability and separation performance.

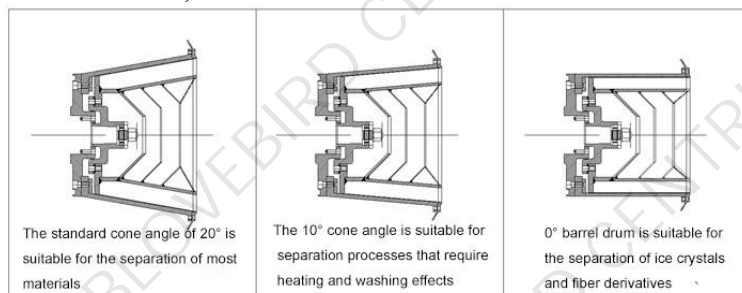
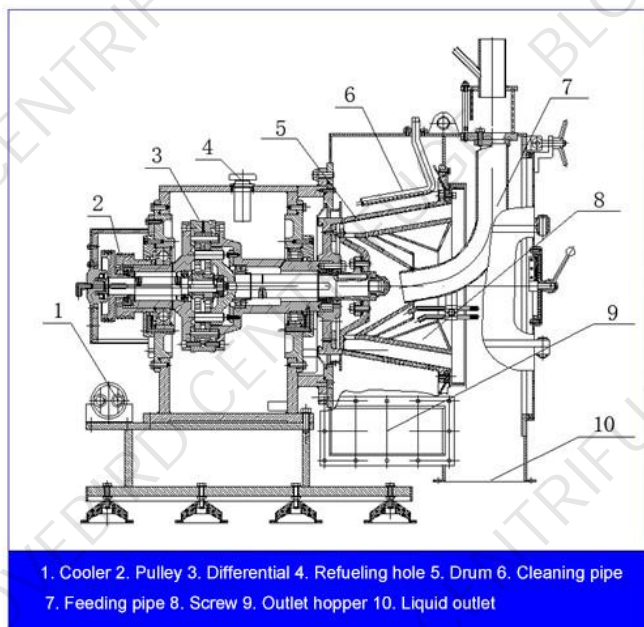
LWL系列螺旋/筛网式离心机已成功应用于

LWL Series Spiral Screen Filtration Centrifuge has been successfully used in the following

己二酸 adipic acid	硫代硫酸铵 ammonium thiosulphate	氨基环烷磷酸酯 Naphtionate	果核 Date stones
芒硝 Salt cake	离子交换树脂 ion Exchange Resin	钠硝石 Sodium Nitre	聚苯乙烯醇 Polyvinylalcohol
吡唑 Pyrazolene	氯化钠 sodium chloride	过硼酸钠 sodium perborate	大苏打 Sodium Thiosulphate
AH-盐 AH-salt	蒽 Anthracene	尼龙切片 nylon chips	硫酸铜 Copper Sulphate
金属渣 greaves	七水硫化铁	磷酸钠 sodium phosphate	钾碱 (碳酸钾) Potash
岩盐 rock salt	iron sulphate hepta hydrate	柠檬酸 citric acid	酒石酸 Tartaric Acid
氨基醋酸 aminoacetic acid	氯酸钠 sodium chlorate	草酸 oxalic acid	结晶苏打 Crystal Soda
火药 gun powder	阿司匹林 aspirin	硫酸钠 sodium sulphate	钾矾 Potash Alum
再生橡胶 regenerated rubber	乳糖 Lactose	聚甲基丙烯酸酯 polymethacrylate	硫酸锡 Tin Sulphate
过硫酸铵 ammonium persulphate	甲酸钠 sodium formate	亚硫酸钠 Sodium Sulphite	对邻苯二甲酸二甲酯 Dinitro Methylarin
石膏 gypsum	双酚 bisphenol	聚苯乙烯 Polystyrene	钾溶液残余物 Potash Solvent Residue
硝酸银 silver nitrate	硫酸锰 manganese sulphate	四硼酸钠 Sodium tetraborate	磷酸三钠 Trisodium
磷酸铵 ammonium phosphate	葡萄糖酸钠 sodium gluconate	二硝基甲基苯胺 DinitroMethylanilin	从甲醇中提取 DMT
乌洛托品 urotropin	硼砂 borax	磷酸二钠 Disodium Phosphate	DMT from Methanol
醋酸钠 sodium acetate	甲基纤维素 methyl cellulose	一磷酸钾 Potassium	碳酸氢钾 Potassium Bicarbonate
硫酸铵 ammonium sulphate	偏硼酸钠 sodium metaborate	氯化钾 Potassium Chloride	硫酸锌 Zinc Sulphate
二氯甲烷制的酒花	甲酸钙 calcium formate	聚氯乙烯 PVC	重铬酸钾 Potassium Bichromate
hops from dichloromethane	磷酸一钠 Monosodium phosphate	硫酸钾 Potassium Sulphate	五硫化二钾 Potassium Pentasulphate
碳酸钠 sodium carbonate	硝酸钠 Sodium Nitrate	聚乙烯产品 Polyethylene	菌丝 Fungal mycel

Main features of continuous centrifuge

1. The main parts such as drum and screw can be made of corrosion-resistant stainless steel and titanium alloy.
2. Dedicated filter, the thickness of the filter reaches 0.5mm, and the service life is longer.
3. Stepless speed regulation of the rotating drum speed.
4. Adjustable, step or stepless speed regulation of spiral differential speed.
5. Simple and reliable lubrication method.
6. Safety protection: speed detection, over-vibration protection, motor overload and overheat protection, spiral zero differential protection.
7. For high viscosity materials, a hydraulic differential can be used, which is stable and reliable



Custom parts:

The drum/screw of the Decanter LWL/Y series screen centrifuge can be customized with different angles according to the needs of the manufacturer. The discharge speed of different angles and the residence time of the cake layer in the drum are different.

Material selection:

The material of the part in contact between the centrifuge and the material can be selected from stainless steel (304, 316L, 2205, etc.), Hastelloy,



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titanium and other corrosion-resistant materials according to customer requirements.

Configuration selection:

Explosion-proof configuration, gas-liquid separation device at the discharge port, washing device, vibration and main bearing temperature monitoring protection, etc.

Technical Parameters of worm screen centrifuge

Model LWL	Drum diameter mm	Drum length mm	Speed r/min	Separation factor	Feed amount m ³ /h	Power kw	Weight kg	Size mm
200	200	176	4000	1790	0.5-1.5	3	450	1120*1050*800
250	250	208	3500	1712	1-5	4	600	1200*1060*850
350	350	287	3000	1762	3-15	11	1200	1220*1200*1172
450	450	356	2600	1700	3-18	22	1680	1400*1450*1300
530	530	405	2200	1434	6-20	30	2200	2000*1700*1620
630	630	496	1850	1205	10-30	37	2600	1900*1750*1630
800	800	525	1500	1008	15-40	55	4200	2300*2200*1750
1000	1000	664	1000	560	20-50	90	8000	2600*2700*2600

