



LEADING FILTER 核盛过滤 | 引领过滤科技 TECHNOLOGY

青岛核盛智能环保设备有限公司
QINGDAO HESHENG INTELLIGENT ENVIRONMENTAL PROTECTION EQUIPMENT CO., LTD.

烟台核盛过滤机械有限公司
YANTAI HESHENG FILTRATION MACHINERY CO., LTD.



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官方网站

新型带式真空加压（压榨）过滤机手册
NEW TYPE VACUUM BELT PRESSURE (SQUEEZE) FILTER BROCHURE



COMPANY PROFILE

企业简介

青岛核盛智能环保设备有限公司专业从事高效智能过滤设备的生产、研发和销售高科技企业，具备真空带式过滤机全产业链生产配套能力。公司聚集了中国从事过滤行业的顶尖人才，积累了二十多年的研发、生产、销售和服务经验，拥有先进的智能机加工设备。严格的质量控制、优质的售后服务、超前的创新意识和能力，使公司始终走在过滤行业的技术前沿。

公司主要产品有：水平带式真空过滤机、陶瓷及陶瓷膜真空过滤机、叠式压滤机、水平带式加压

过滤机，带式真空超高压深度脱水机、精密管式过滤器、高效浓密机，节能型微波干化机，高效MVR蒸发浓缩设备等产品。广泛应用于化工、矿山、冶金、化肥、医药、食品、造纸、环保、污水处理、尾矿处理等行业。

公司秉承“为客户创造价值，让员工实现梦想，为社会创造财富”的经营理念，为用户提供高效、节能、低碳的固态分离产品和科学的过滤解决方案。

核盛环保，为您创造价值！

Qingdao Hesheng Intelligent Environmental Protection Equipment Co., Ltd. specializes in production, R&D and sales of intelligent filters and owns a full industry chain for vacuum belt filters. Qingdao Hesheng has many experts in filtration industry and has been focusing on R&D, manufacture, sales and service for more than 20 years, meanwhile, we have all kinds of advanced intelligent machining equipment. The rigorous quality control system, the excellent after-sales service system, the advanced innovation consciousness, Qingdao Hesheng is always leading the filter industry.

Our main products as follows: Horizontal Vacuum Belt Filter, Ceramic and Ceramic Membrane Vacuum Filter, Stacked Filter Press, Horizontal Belt Pressurized Filter, Belt Vacuum Ultra-high Pressure Deep Dehydrator, Tubular Filter, High-efficiency Thickener, Energy-saving Microwave Drying Machine, High-efficiency MVR Evaporation and Concentration Equipment and other products. They are widely used in chemical industry, mining, metallurgy,

fertilizer, medicine, food, paper-making, environmental protection, waste water treatment and tailings dewatering industries.

We adhere to the business philosophy of "Creating value for clients, Realizing dreams for employees, Creating wealth for society", and provide users with high efficient, energy-saving, low-carbon solid-state separation products and scientific filtration solutions.

Qingdao Hesheng, Create Values for you!

COHESION
VIRTUE 厚德 聚力
创新 共赢
WIN-WIN
INNOVATION

ENTERPRISE CULTURE

企业文化

核心价值观 / CORE VALUE

厚德，聚力，创新，共赢。
VIRTUE, COHESION, INNOVATION, WIN-WIN.

核心竞争力 / CORE COMPETITIVENESS

团队协作，持续创新。
Team Work, Continuous Innovation.

企业精神 / ENTERPRISE SPIRIT

仁爱，坚韧，诚信，担当。
Benevolence, Tenacity, Honesty, Responsibility.

企业愿景 / ENTERPRISE VISION

员工幸福，团队一流，科技领先，全球品牌。
Happy Employees, First-class Team, Leading Technology, Global Brand.

经营理念 / BUSINESS PHILOSOPHY

为客户创造价值，为员工实现梦想，为社会创造财富。
Creating Value for Clients, Realizing Dreams for Employees,
Creating Wealth for Society.

企业使命 / ENTERPRISE MISSION

使过滤机更加智能高效，让核盛过滤走向世界。
To Make the Filter More Intelligent and Efficient, to
Make Hesheng Brand Filter to All Over the World.

安全理念 / SAFETY CONCEPT

岗位安全，环境安全，生产安全，出入安全。
Post Safety, Environment Safety, Production Safety, Access Safety

管理理念 / MANAGEMENT PHILOSOPHY

尊重融合，开放包容，科学决策，高效务实。
Respect Integration, Openness and Inclusiveness, Scientific Decision-making,
Efficiency and Pragmatism.

质量方针 / QUALITY POLICY

精益求精，用户满意，持续改进，追求卓越。
Make Perfection More Perfect, Customer Satisfaction, Continuous Improvement,
Pursuit of Excellence.



CE证书



CE证书



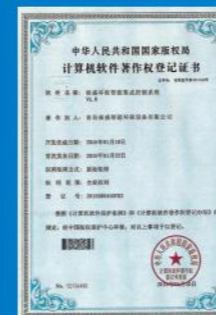
CE证书



安全生产标准化



知识产权管理体系
认证证书



计算机软件著作权



计算机软件著作权



职业健康安全管理体系
认证证书



环境管理体系
认证证书



质量管理体系
认证证书



橡胶生产车间 / Rubber belt workshop



滤布生产车间 / Filter cloth workshop

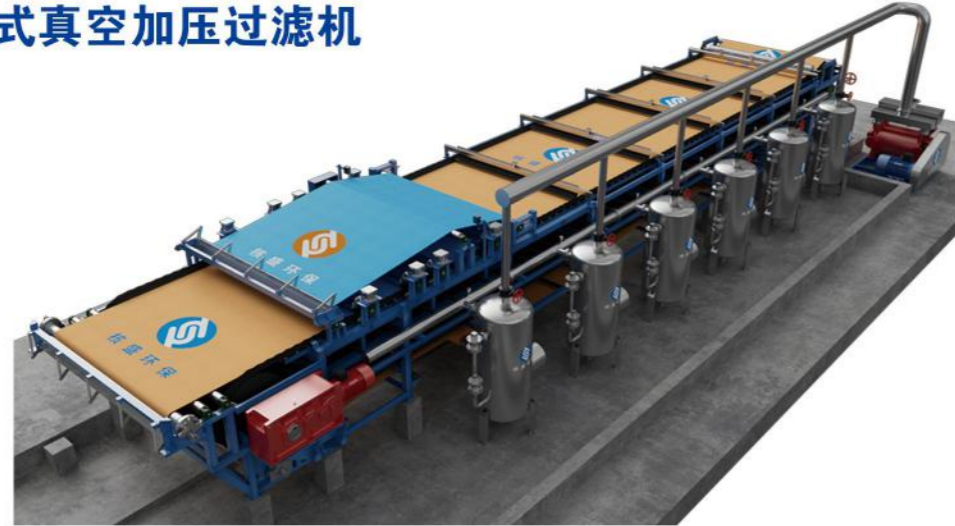


真空泵生产车间 / Vacuum pump workshop



LDZ Crawler Vacuum Pressure Filter

LDZ履带式真空加压过滤机



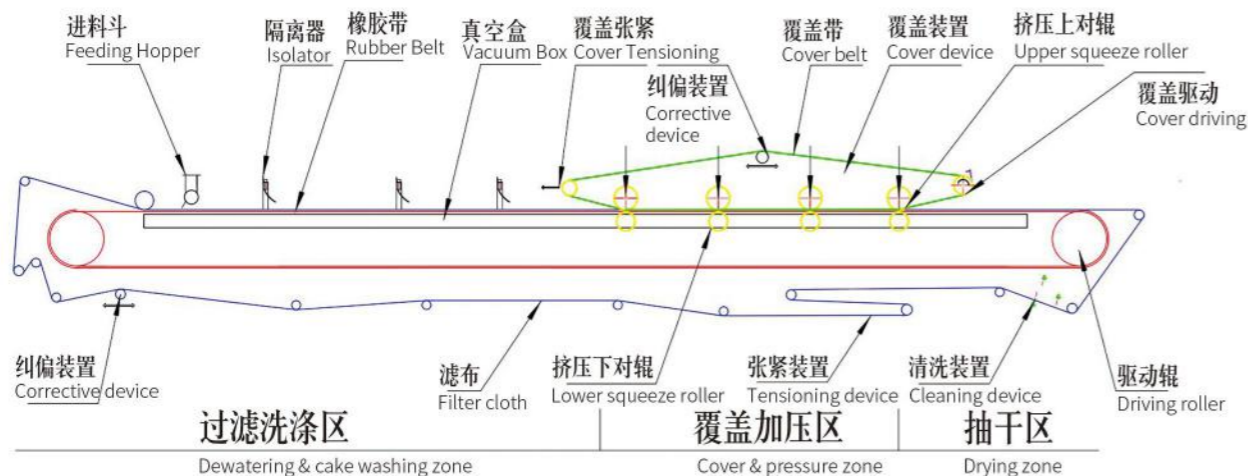
结构及工作原理/Structure & Working Principles

设备结构:

履带式真空压榨脱水机由履带覆盖装置、橡胶滤带、真空箱、驱动辊、胶带支承台、进料斗、滤布纠偏装置、驱动装置、滤布洗涤装置、履带覆盖、对辊压榨、机架等部件组成。它是充分利用物料重力、真空吸力、双滤布挤压和对辊压榨实现固液分离的高效设备。

Structure:

Crawler vacuum pressure filter is made up of crawler cover device, rubber belt, vacuum box, driving roller, belt supports, feeding hopper, filter cloth corrective device, driving device, filter cloth cleaning device, crawler cover, couple-rollers squeeze device, frameworks etc. It is an efficient solid-liquid separation equipment that makes full use of slurry gravity, vacuum suction, coupled filter cloth pressing and coupled rollers squeeze.



工作原理:

如图示，环形过滤胶带由电机经减速驱动连续运行，滤布铺敷在胶带上与之同步运行。胶带与真空室滑动接触（真空室与胶带间有环形磨擦带并通入水形成水密封），当真空室接通真空系统时，在胶带上形成真空，料浆由布料器均匀地布在滤布上，在真空的作用下，滤液穿过滤布经胶带上的横沟槽汇总并由胶带中心小孔进入真空室，固体颗粒被截留而形成滤饼；进入真空的液体经气水分离器排出。随着橡胶带移动已形成的滤饼依次进入滤饼抽滤区、覆盖区、抽干区；覆盖区，在上下滤布共同包裹下，形成高真空区域，最大限度抽出滤饼种的水分，同时在覆盖区有几挤压辊与对辊，在气缸作用下，高压、线接触情况下挤压滤饼，最大限度去除滤布水份，最后经过抽干区，进一步脱水，最后滤布与胶带分开，在卸滤饼处将滤饼卸出；卸除滤饼的滤布经清洗后获得再生；再经过一组支承辊和纠偏装置后重新进入过滤区。

Working principles:

as shown, the annular rubber belt is driven by a reducing motor run continuously, and the filter cloth which laid on the rubber belt run with it synchronously. The rubber belt slides on vacuum box (There is an annular friction belt between the vacuum box and the rubber belt, and water is fed into it to form a water seal), when the vacuum box is connected to the vacuum system, vacuum area formed on the rubber belt, the slurry is evenly distributed on the filter cloth by the feeding hopper, as vacuum exist, the filtrate penetrates the filter cloth and is collected by the grooves on the rubber belt and flows into the vacuum box through the holes in the center of rubber belt, while the solid part is intercepted and become filter cake on filter cloth. The filtrate in the vacuum box is discharged by air-liquid separator. As the rubber belt moves, the cake enters the filter extraction area, cover area and dewater area in turn. At the cover area, upper and lower filter cloth wrap together, making a high vacuum area, while the rollers driven by air cylinders squeezing the cake with great linear pressure, water is removed to the maximum extent. Finally, at the dewatering area, the cake is dewatered further, at last, the cake separates with the belt at the cake discharge roller. And the filter cloth renewed by cleaning device re-enter the filter area after passing through a set of support rollers and corrective device.

LDZ履带式真空加压过滤机

型号说明与基本参数/Model description and basic parameters

过滤面积 (Filtering area)m ²	有效带宽 (Effective width)mm	有效长度 (Effective length)mm	整机总长 (Frame length)mm	机架宽度 (Frame width)mm	机身高度 (Frame height)mm	重量T (Weight) Tons	真空耗量 Vacuum consumption m ³ /min
8	1000	8000	12100	1600	2070	8.8	25
10		10000	14100			9.6	30
12		12000	16100			10.4	35
14		14000	18100			11.1	40
10.4	1300	8000	12100	1900	2170	9.8	30
13		10000	14100			10.8	35
15.6		12000	16100			11.5	40
18.2		14000	18100			13.2	50
20.8	2000	16000	20100	2700	2170	15.1	55
20		10000	14100			14.2	55
24		12000	16100			17.8	65
28		14000	18100			20.2	80
32	2500	16000	20100	3200	2270	23.6	90
20		8000	12100			14.8	60
25		10000	14100			18.6	75
30		12000	16100			22.2	85
35	3000	14000	18100	3750	2270	26	70
40		16000	20100			29.8	90
50		20000	24100			41	130
30		10000	14100			22.8	90
36	4000	12000	16100	4800	2470	27.5	110
42		14000	18100			32.5	120
54		18000	22100			45	144
60		20000	24100			50.5	160
48	4500	12000	16100	7100	5500	39.5	120
56		14000	18100			46.8	150
64		16000	20100			52.6	180
72		18000	22100			58.3	200
80	4500	20000	24100	7100	5500	65	220
100		25000	29100			75	250
120		30000	34100			90	300
144		32500	36600			120	360

LDZ履带式真空加压过滤机
技术特点/Technical features

- 1) 自动化程度高，能连续完成布料、抽滤、挤压、滤布再生等功能，生产效率极高。
High degree of automation, it can continuously complete the functions of slurry feeding, vacuum dewatering, squeezing, filter cloth washing, etc., with the high production efficiency.
- 2) 将带式真空过滤机、带式压机、压滤机三合一（可称为连续的板框压机），最大限度去除水分。
Combining vacuum filter, belt press filter and press filter (it can be called a continuous plate and frame filter press) three in one, to remove moisture to the maximum extent.
- 3) 结构合理，设备故障率低，维护方便。
Reasonable structure, low equipment failure rate, easy to maintain.

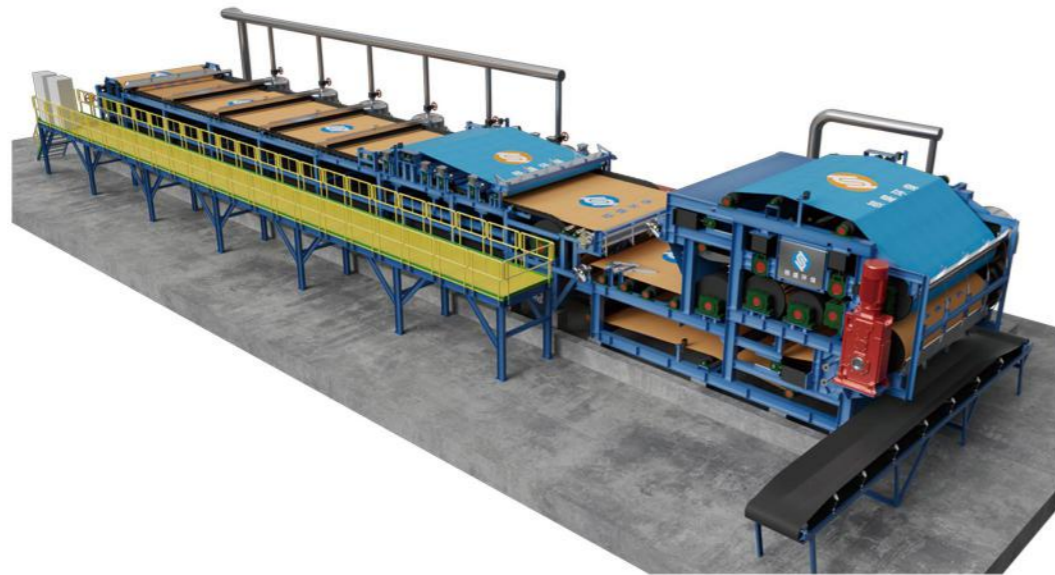
应用领域/Application

各种工业生产中的过滤洗涤，固废脱水，工业和生活污泥脱水。
Filtration in various industrial production, such as solid waste dewatering, industrial and domestic sludge dewatering.



DUY Vacuum Belt Squeeze Filter

DUY带式真空压榨脱水机

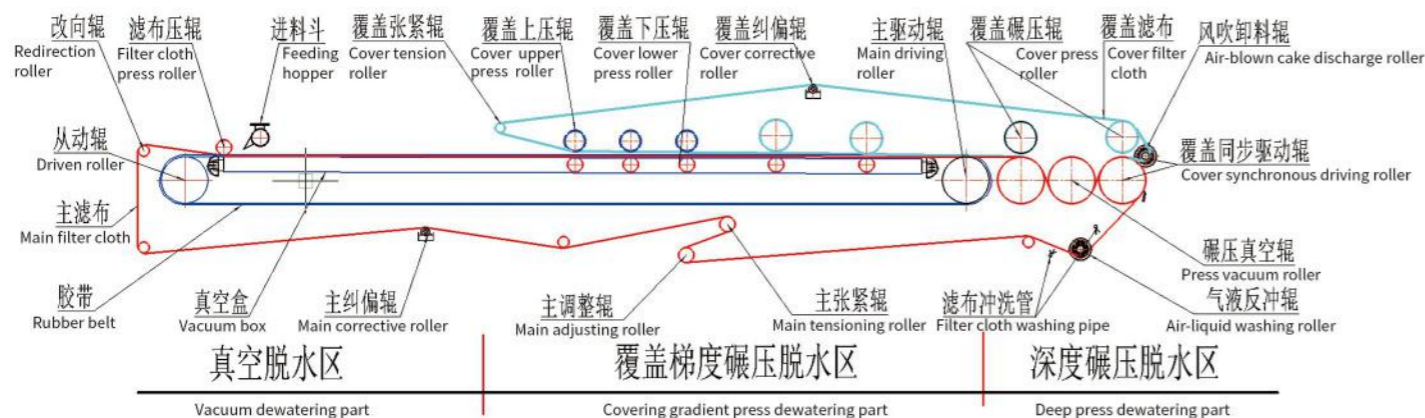


结构及工作原理/Structure and working principles

设备结构:

该设备由三步脱水区组成：真空负压脱水区
覆盖梯度脱水区
深度碾压脱水区。

The equipment consists of vacuum negative pressure dewatering part, cover gradient dewatering part and deep-press dewatering part.



工作原理:

真空负压脱水区由橡胶带、真空盒、驱动辊、滤布、布料器、滤布纠偏装置、驱动装置、滤布洗涤装置、机架等部件组成。它是以主滤布为过滤介质充分利用物料重力和真空吸力实现固液分离的效果。环形胶带由电机经减速机拖动在真空盒上连续运行，主滤布铺敷在胶带上与之同步运行，料浆由布料器均匀地布在主滤布上，当真空室接通真空系统时，在胶带上形成真空抽滤区，滤液穿过主滤布经胶带上的横沟槽汇总并由小孔进入真空室，固体颗粒被截留而形成滤饼；滤饼随着主滤布往前运动，由主滤布与覆盖滤布包裹进入覆盖梯度碾压脱水区，经过覆盖上下压辊梯度挤压与真空系统的双重作用下，继续脱水。滤饼进入深度碾压区后，主滤布和覆盖滤布在减速机带动下，继续向前运动，上下滤布经同步驱动辊运行，经过三个真空压榨辊和两个碾压辊进一步深度脱水，经风吹卸料辊卸料。

卸除滤饼的滤布经上下清洗装置中清洗、再经气液反冲辊获得再生；再经过一组支承辊和纠偏装置后重新进入过滤区。然后进入下一个过滤周期。

Working principle:

The vacuum negative pressure dewatering part consist of rubber belt, vacuum box, driving roller, filter cloth, feeding hopper, filter cloth corrective device, driving device, filter cloth washing device and frame. It uses filter cloth as filter medium to make full use of slurry gravity and vacuum suction to achieve the effect of solid-liquid separation. The annular rubber belt is driven by the reducer motor runs continuously on the vacuum box, and the filter cloth which laid on the rubber belt runs with it synchronously. The slurry is evenly distributed on the filter cloth by the feeding hopper. When the vacuum box is connected to the vacuum system, vacuum area formed on the rubber belt, the filtrate penetrates the filter cloth and is collected by the grooves on the rubber belt and flows into the vacuum box through the holes in the center of the rubber belt, while the solid part is intercepted and becomes cake on filter cloth. With the main filter cloth moving forward, the cake is wrapped by the main filter cloth and the cover filter cloth into the cover gradient press dewatering area, and continues to dewatering under the double action of the cover upper and lower press roller gradient extrusion and vacuum system. After the cake entering deep-press area, the main filter cloth and the covering filter cloth continue to move forward under the drive of the reducer, and the upper and lower filter cloths are run by drive rollers synchronously, and further deep dehydration is carried out by three vacuum pressing rollers and two press rollers, and then the cake is discharged by air-blown discharge roller.

After the cake discharged, the filter cloth is cleaned and renewed by the upper and lower flushing cleaning device and air-liquid washing roller, and then re-enters the filtration area after passing through a set of support rollers and corrective device, and then enters the next filtration cycle.

DUY Vacuum Belt Squeeze Filter

DUY带式真空压榨脱水机

型号说明与基本参数 (标准型) / Model description and basic parameters (standard type)

型号 Model	有效带宽 (mm) Effective width	真空面积 (m ²) Vacuum area	真空压榨面积 (m ²) Vacuum press area	主机功率 (KW) Drive power	真空耗气量及功率 (m ³ /KW) Vacuum air consumption and power	清洗水耗量 (m ³ /h) Washing water consumption	清洗水压力 (MPa) Wash water pressure	气源压力 (MPa) Air pressure	压缩空气耗量 (m ³ /min) Compressed air consumption	外形尺寸 (m) 长×宽×高(参考值)不含排液罐 Outline dimension (For reference, excluded filtrate tank)
DUY10-3/1000	1000	15	3	5.5×2	37/22	1	0.6	1	1	19×2×2.5
DUY15-4/1500	1300	20	4	7.5×2	45/30	1.5	0.6	1	1	19×2.3×2.5
DUY20-7/2000	1800	20	7	11×2	75/55	2	0.6	1	1.5	19×2.8×2.5
DUY25-15/2500	2500	25	15	15×2	90/75	2.5	0.6	1	2	20×3.3×2.8
DUY30-15/3000	3000	30	15	22×2	110/90	3	0.6	1	2.5	20×3.8×3
DUY40-20/4000	4000	40	20	37×2	132/110	4	0.6	1	4	21×4.8×4
DUY45-25/4500	4500	45	25	45×2	160/132	4.5	0.6	1	4	22×5.2×4.5

注：各系列真空和压榨面积可根据需要加大或缩小
 Note: Each series of vacuum and press area can be increased or reduced as required

技术特点/Technical features

- 1) 自动化程度高，能连续完成进料、抽滤、滤饼洗涤、压榨、滤布再生等功能，生产效率极高。
 High degree of automation, it can continuously complete the functions of feeding, vacuum dewatering, filter cake washing, squeezing, filter cloth washing, etc. With extremely highly production efficiency.
- 2) 将带式真空过滤机、带式压机、板框压滤机三合一（可称为连续的板框压机），最大限度去除水分。
 Combining vacuum filter, belt press filter and press filter (it can be called a continuous plate and frame filter press) three in one, to remove moisture to the maximum extent.
- 3) 结构合理，设备故障率低，维护方便。
 Reasonable structure, low equipment failure rate, easy to maintain.

应用领域/Application

用于各种工业过滤，工业固废，矿山尾渣，石膏（磷石膏、柠檬酸石膏、钛石膏、脱硫石膏），污泥等处理。
 It is used for various industrial filtration, industrial solid waste, mine tailings, gypsum (phosphogypsum, citric acid gypsum, titanium gypsum, desulfurization gypsum), sludge, etc.



DZG Vacuum Belt Ultra-high Pressure Filter

DZG带式真空超高压深度脱水机



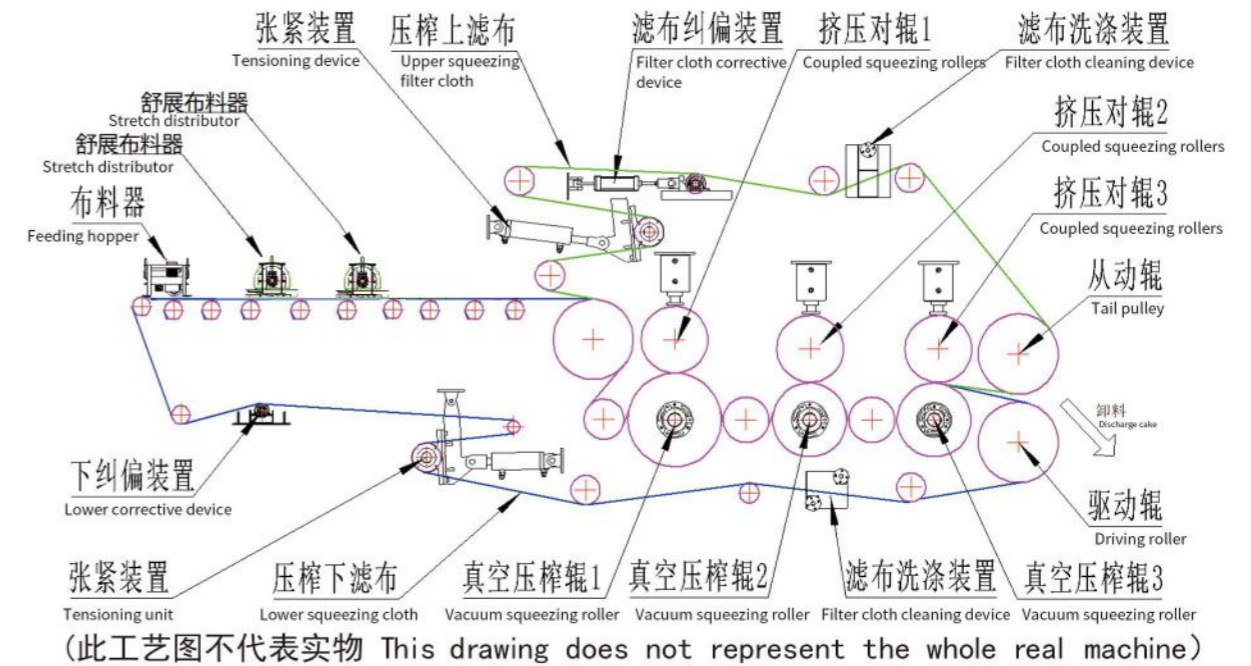
结构及工作原理/Structure and Working principles

设备结构:

设备由布料器、真空高碾压装置、驱从动辊、滤布、滤布纠偏装置、滤布再生装置、机架等部件组成。它是以滤布为过滤介质充分利用高压压榨脱水实现固液分离的设备。

Structure:

The machine is composed of slurry feeding hopper, high vacuum press device, driving and driven rollers, filter cloth, filter cloth correction device, filter cloth cleaning device, frame and other components. It uses filter cloth as the filter medium to make full use of ultra-high pressure dehydration to achieve solid-liquid separation.



工作原理:

工作时物料由布料器均匀地布在滤布上，滤饼随着滤布往前运动，由上下滤布包裹进入真空高压深度脱水段，经过几组真空压榨辊与对辊的碾压和真空抽力三重作用下继续脱水，最大限度脱除滤饼水份，最后滤饼由上下滤布卸料装置卸除；卸除滤饼后的滤布经上下清洗装置中清洗获得再生，再经过一组支承辊、改向辊、纠偏装置后重新进入下一个循环过滤脱水。

Working principle:

The slurry is evenly distributed on the filter cloth by the feeding hopper, the filter cake moves forward with the filter cloth, and then the cake wrapped up by upper and lower filter cloth enters vacuum & ultra-high pressure deep dehydration section, and continues to be dehydrated under the triple action of several sets of vacuum press rollers and coupled squeezing rollers and vacuum suction to remove the moisture of the filter cake to the maximum extent. Finally, the cake is discharged by the upper and lower filter cloth discharge devices, then the filter cloth renewed after passing through cleaning device, and then passes through support rollers, redirection rollers, corrective device and re-enters the next cycle.

DZG Vacuum Belt Ultra-high Pressure Filter

DZG带式真空超高压深度脱水机

型号说明与基本参数 (标准型) / Model description and basic parameters (standard type)

型号 Model	有效带宽 (mm) Effective width	真空面积 (m ²) Vacuum area	主机功率 (KW) Drive power	真空耗气量及功率 (m ³ /KW) Vacuum air consumption and power	清洗水耗量 (m ³ /h) Washing water consumption	清洗水压力 (MPa) Wash water pressure	气源压力 (MPa) Compressed air pressure	压缩空气耗量 (m ³ /min) Compressed air consumption	外形尺寸 (m) 长×宽×高(参考值)不含排液罐 Outline dimension (For reference, excluded filtrate tank)
DZG-1000	1000	10	15	55	1	0.6	0.8	1	8×2.5×3
DZG-1500	1500	15	18.5	75	1.5	0.6	0.8	1.5	8×3×3
DZG-2000	2000	20	22	90	2	0.6	0.8	2	9×3.5×3.5
DZG-2500	2500	30	30	110	2.5	0.6	0.8	2.5	9×4.5×3.5
DZG-3000	3000	35	37	132	3	0.6	0.8	3	10×5×3.5
DZG-4000	4000	45	55	185	4	0.6	0.8	4	11×5.5×4
DZG-4500	4500	50	75	220	4.5	0.6	0.8	4.5	12×6×4

技术特点/Technical features

1) 自动化程度高, 能连续完成布料、抽滤、加压, 碾压、滤布再生等功能, 生产效率极高。
High degree of automation, it can continuously complete the functions of feeding, vacuum dewatering, pressurization, squeezing, filter cloth washing, etc., with extremely high production efficiency.

2) 将带式真空过滤机、带式压机、高压板框压滤机三合一(可称为连续的高压板框压机), 最大限度去除水分。

Combining vacuum filter, belt press filter and press filter (it can be called a continuous plate and frame filter press) three in one, to remove moisture to the maximum extent.

3) 结构合理, 设备故障率低, 维护方便。

Reasonable structure, low equipment failure rate, easy to maintain.

应用领域/Application

用于各种工业过滤, 工业固废, 矿山尾渣, 石膏(磷石膏、柠檬酸石膏、钛石膏、脱硫石膏), 污泥, 玉米芯、桔梗、中药渣, 浒苔等脱水。

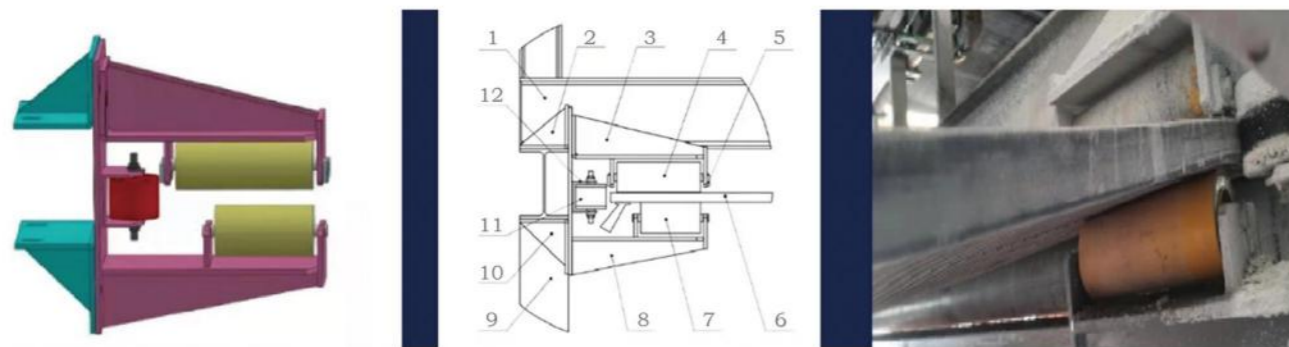
It can be used for various industrial filtration, industrial solid waste, mine tailings, gypsum (phosphogypsum, citric acid gypsum, titanium gypsum, desulfurization gypsum), sludge, corncob, platycodon, traditional Chinese medicine slag, prolifera and other dehydration.



带滤机创新装置 / Innovations

1、 胶带导正纠偏装置，安装无需跑胶带，胶带永不跑偏。

Rubber belt corrective device, no need to pre-run the rubber belt, it never off tracking.



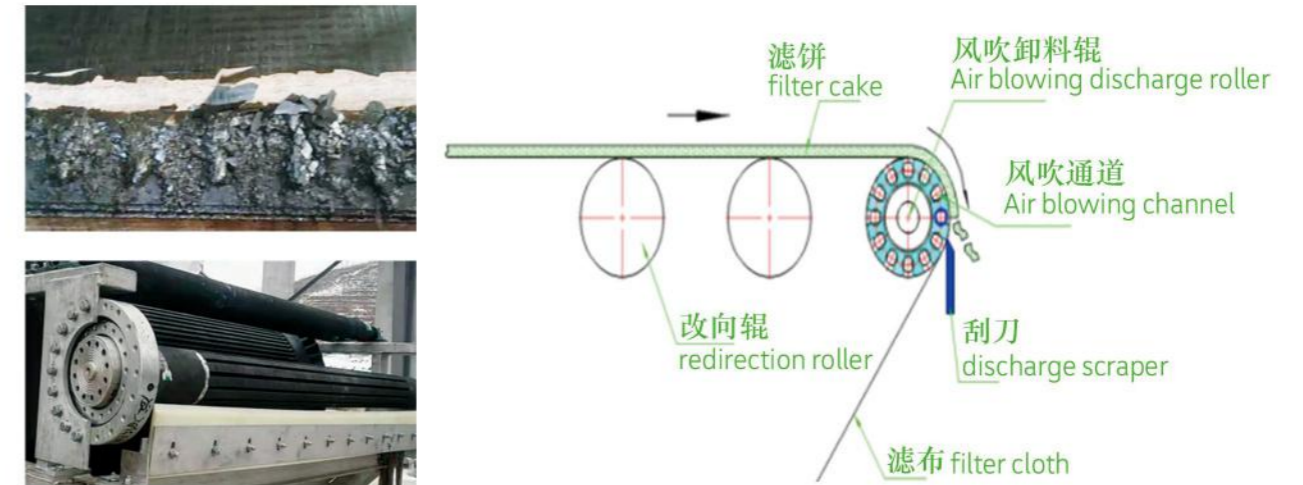
2、 滤饼振动降水份装置，有效降低滤饼水份。

Filter cake vibration device, effectively reduce the filter cake moisture.



3、 风吹卸料防止滤布粘料，同时也能再生滤布，一些场合无需用水洗滤布。

The air-blown discharge cake to prevent filter cloth sticking cake, and it can also renew the filter cloth. In some occasions, there is no need to wash the filter cloth with water.



4、 高压水定期冲洗滤布，防止滤布结硬板结，提高滤布使用寿命。

Regularly wash the filter cloth with high-pressure water to prevent the filter cloth from being hard and hardened, and improve the service



5、 气(汽)液反冲再生滤布，节水90%，彻底解决滤布堵塞和结垢问题。

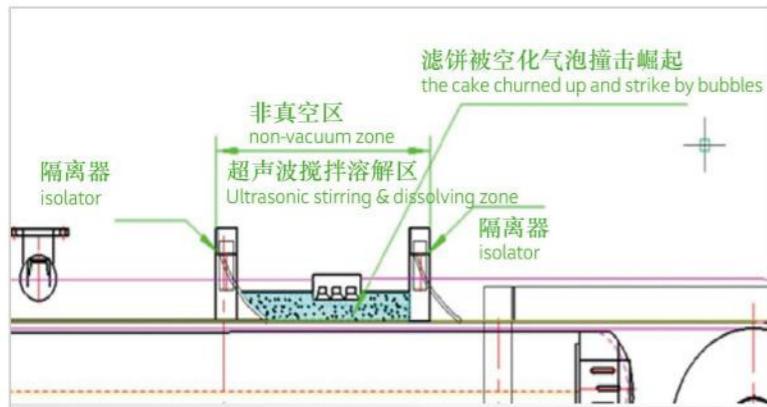
Air (vapor) liquid washing cloth, saving 90% of water, completely solve the problem of filter cloth clogging and scaling. Air (vapor) liquid washing cloth, saving 90% of water, completely solve the problem of filter cloth clogging and scaling.



带滤机创新装置 / Innovations

6、超声波再线饼洗涤，提高滤涤率，降低洗水当量。

Washing cake with ultrasonic, improves the filtration washing rate and water-saving.



7、真空盒用高耐磨防腐涂层，真空盒不结垢或缓结垢或易清理（内表面未加涂层）。

The vacuum box is coated with high wear resistance and anti-corrosion, and the vacuum box does not scale or slow down scale and easy to clean (the inner surface is not coated).



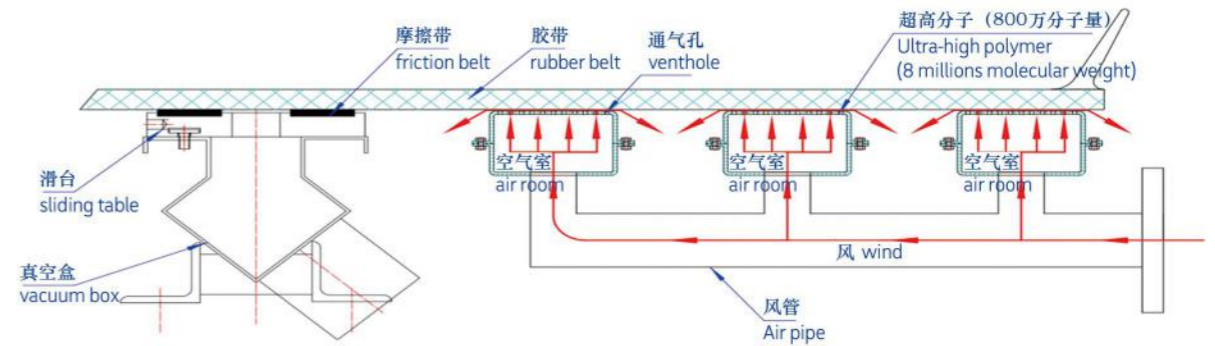
8、托带式胶带支撑，有效保护胶带，滤饼平整不易产生裂纹，提高滤饼洗涤效率。

8.Support rubber belt with friction belts can protect the rubber belt effectively, and the filter cake is flat and not easy to cracks, also can improves the filter cake washing efficiency.



9、分体式气垫胶带支撑方式，摩擦阻力小，滤饼平整不开裂，滤饼洗涤效率高。

Split air-cushion belt support mode, low friction resistance, flat filter cake without cracking, high filter cake washing efficiency.



10、采用新型高强度摩擦带（专利技术），两侧不露线，寿命大幅提高。

Using new high-strength friction belt (owns patent rights), no lines are exposed on both sides, and the service life is greatly improved.

