



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

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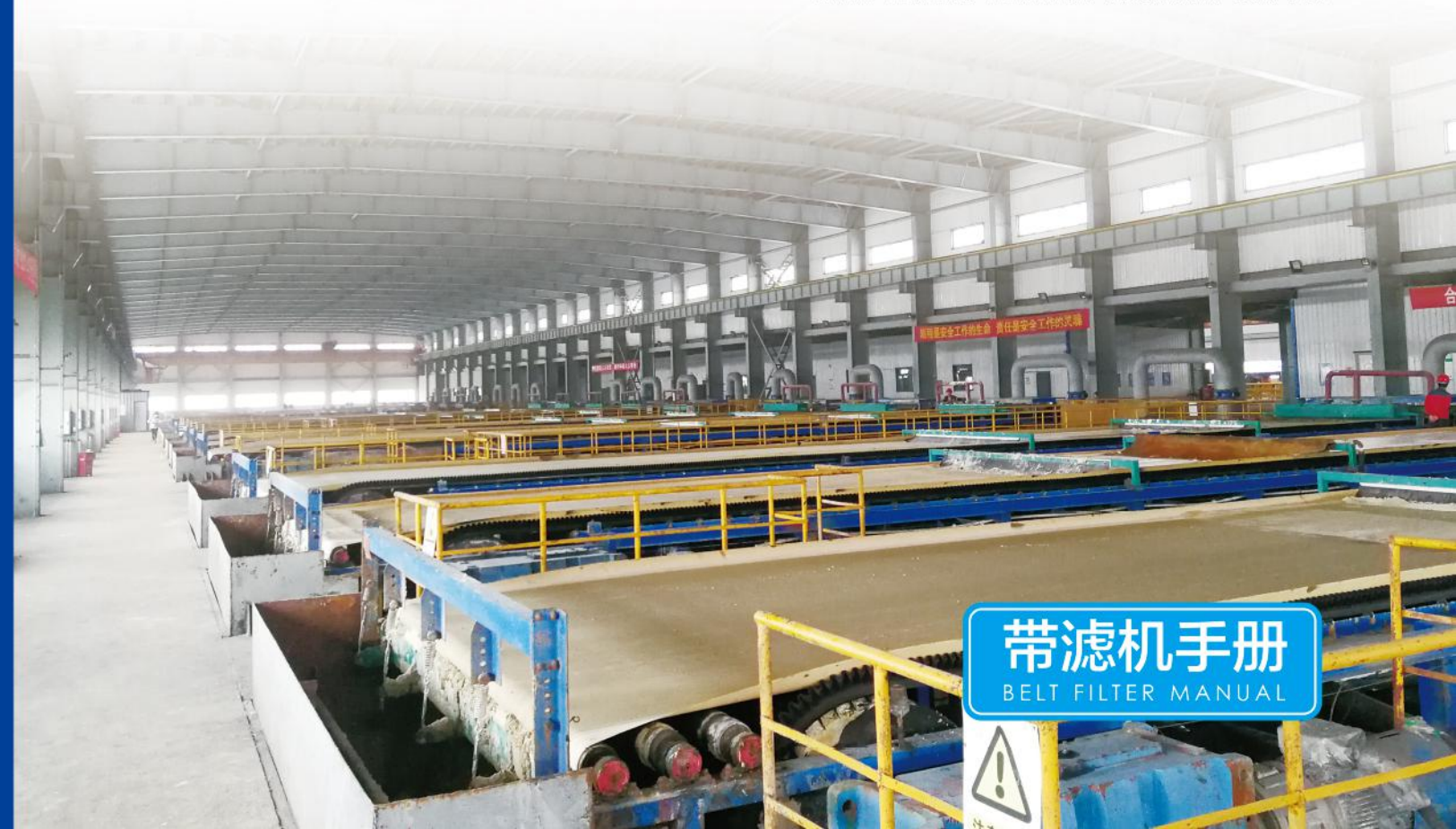
核盛过滤
Hesheng Filter

LEADING FILTER TECHNOLOGY

核 盛 过 滤 | 引 领 过 滤 科 技

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.



带滤机手册
BELT FILTER MANUAL





COMPANY PROFILE

企业简介

青岛核盛智能环保设备有限公司是专业从事智能过滤设备的生产、研发和销售的高科技企业。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。

公司的主要产品有：水平带式真空过滤机、陶瓷真空过滤机、叠式压滤机、智能压榨过滤机、水

平带式加压过滤机、加压叠盘过滤机、带式真空震筛过滤机、离心机、管式过滤器等产品。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，为用户提供高质量的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. is a high-tech enterprise in production, R & D and sales for intelligent filters. We gathered the top talents in Chinese filtration field, they have more than 20 years' experience in R & D, production, sales and services. We have advanced intelligent machining equipment, the rigorous quality control system and high-class after-sales service system, the advanced innovation consciousness and ability to make us always walk at the forefront of the filter industry.

Our main products as follows: Horizontal Vacuum Belt Filter, Ceramic Disc Filter, Stacked Filter Press, Intelligent Horizontal Press Filter, Horizontal belt press filter, disc press filter, vacuum belt shaking filter, Centrifuge, Disc press filter, Belt vacuum vibrating stage dewatering machine, tubular filter, high efficiency thickener and so on. They are widely used in chemical industry, mining,

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

We adhering to the "Creating value for clients, Realizing dreams for employees, Creating wealth for society" business philosophy, to provide high-quality equipment and scientific filtration proposal for users.

Hesheng Environmental Protection, Creat Value 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.

企业精神 / ENTERPRISE SPIRIT

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

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.

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.

核心竞争力 / CORE COMPETITIVENESS

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

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.

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

ENTERPRISE QUALIFICATION

企业资质



CE证书



CE证书



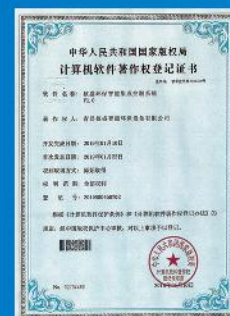
CE证书



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



DU HORIZONTAL RUBBER BELT VACUUM FILTER

DU水平真空胶带式过滤机

简介 / BRIEF INTRODUCTION

水平真空胶带式过滤机是以滤布为过滤介质，充分利用物料重力和真空吸力实现固液分离的高效固液分离设备。

The horizontal rubber belt vacuum filter is using filtering fabric as the filter medium, which utilizes the material gravity and vacuum suction to realize the separation of the solid and liquid.



工作原理 / OPERATING PRINCIPLE

该设备采用了固定真空盒，环形胶带由减速机拖动在真空盒上连续运行，滤布铺敷在胶带上与之同步运行，胶带与真空盒滑台上的摩擦带接触并形成水密封的结构。料浆由下料斗，均匀地布在滤布上。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，固体颗粒被截留在滤布上形成滤饼。进入真空室的液体经排液罐排出，随着橡胶带的移动，已形成的滤饼依次进入滤饼洗涤区和洗干区，最后滤布与胶带分开，进入卸料区。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，然后再进入下一个过滤周期。

This equipment adopts the fixed vacuum chamber, the rubber belt is driven by the gearbox and running continuously on the vacuum chamber, the cloth moving synchronously on the rubber belt, the friction belt on the slipway of vacuum chamber forming a water sealing structure with rubber belt. The slurry feeding on the cloth smoothly and evenly by feeding hopper. when the vacuum chamber connected with vacuum system, the filtering area with vacuum suction will be formed on the rubber belt, the filtrate pass through the cloth and flow to the grooves and holes of rubber belt to vacuum chamber, the solids formed a cake on the surface of cloth. The filtrate in the vacuum chamber discharged by the vacuum tank. Moving by the rubber belt, the cake moving to the cake washing area and drying area sequentially, then enter into cake discharging area. After discharging cake, the cloth washed by washing system and enter into next filtering cycle.

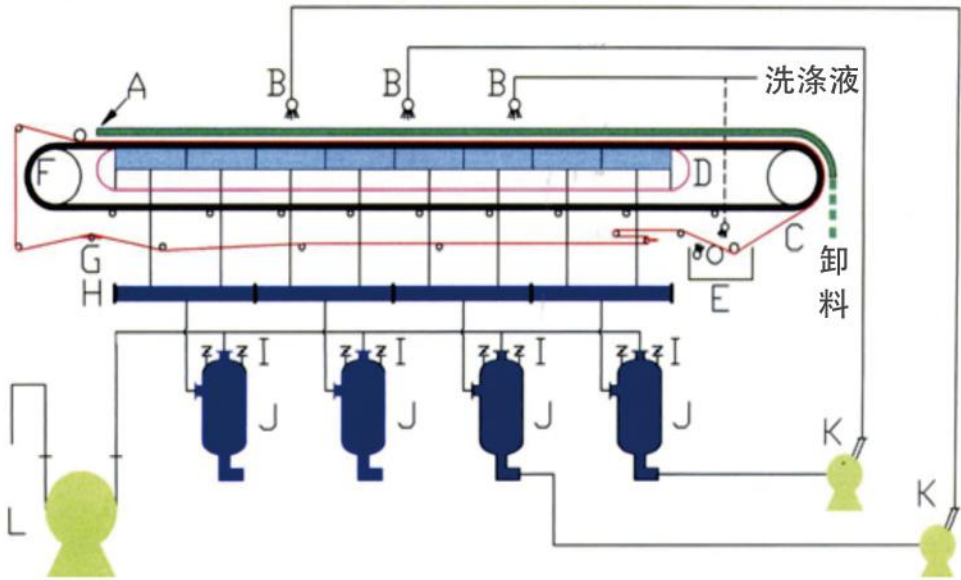
特点 / FEATURES

- ① 喂料、过滤、滤饼洗涤、滤饼抽干、卸料、滤布再生、滤布纠偏连续自动完成，自动化程度极高。
- ② 过滤母液和滤饼洗涤液可分开收集，滤饼洗涤可实现多道平流和逆流洗涤，各段洗涤液可分开收集。
- ③ 可实现远程与现场交互控制的方式，便于实施无人操作。
- ④ 胶带运行速度可在一定范围内无极调速，可根据物料的过滤性能，调整滤饼的厚度，以达到最佳过滤效果，适应性强。
- ⑤ 整机采用框架模块式设计，非常便于设备的运输、安装和维护。
- ⑥ 滤布再生可选配高压清洗方式增加滤布的再生效果及寿命。
- ⑦ 排液方式有零位排液、高位排液、辅助排液。
- ⑧ 设备可增加气罩实现了半封闭或全封闭，用于含有挥发性气体或蒸汽的物料局部保温或集中收集，便于清洁生产。

- ① Slurry feeding, filtering, cake washing, cake drying, cake discharging, cloth washing and cloth rectify deviation are finished automatically and continuously, high level of automation.
- ② The mother solution and cake washed liquid can be collected separately, cake washing can reach several times use clean water washing and filtrate washing, each phase washed water can be collected separately.
- ③ The remote and local control can be exchanged to achieve unmanned operations.
- ④ Belt speed can be adjusted in a certain range, according to material filtering parameter to adjust the cake thickness to reach the best filtering result, well-adapted.
- ⑤ The whole filter use frame module design, which is very convenient for transportation, installation and maintenance of equipment.
- ⑥ For cloth washing can choose high pressure water for cloth washing to increase the cloth regenerative effect and the life span.
- ⑦ Filtrate discharge types include automatic discharge, high level discharge and auxiliary discharge.
- ⑧ Gas cover can be designed partial closed or totally enclosed for partial insulation or the centralized collection for the volatile gas or steam of slurry. It is easy for clean production.

PROCESS FLOW DIAGRAM

工艺流程图



- A 加料装置 / SLURRY FEEDING

B 洗涤装置 / CAKE WASHING

C 滤布 / CLOTH

D 摩擦带 / FRICTION BELT

E 清洗装置 / CLOTH WASHING DEVICE

F 橡胶带 / RUBBER BELT
- G 纠偏装置 / CLOTH REDIRECTION DEVICE

H 滤液总管 / MAIN VACUUM PIPE

I 切换阀 / EXCHANGE VALVE

J 排液罐 / VACUUM TANK

K 洗涤泵 / WATER PUMP FOR CAKE WASHING

L 真空泵 / VACUUM PUMP

EQUIPMENT TECHNICAL PARAMENTERS

设备技术参数

过滤面积 Filtrating area	有效宽度 Effective width	有效长度 Effective length	整机总长 Frame length	机架宽度 Frame width	机身高度 Frame height	重量 weight	真空耗量 Vacuum consumption m ³ /min
2	500	4000	8100	1100	2070	5.5	8
3		6000	10100			6	12
4		8000	12100			6.5	16
5		10000	14100			7	18
6		12000	16100			7.6	22
8	1000	8000	12100	1600	2070	8.8	25
10		10000	14100			9.6	28
12		12000	16100			10.4	30
14		14000	18100			11.1	33
10.4	1300	8000	12100	1900	2170	9.8	28
13		10000	14100			10.8	30
15.6		12000	16100			11.5	35
18.2		14000	18100			13.2	38
20.8		16000	20100			15.1	42
20	2000	10000	14100	2700	2170	14.2	40
24		12000	16100			17.8	48
28		14000	18100			20.2	52
32		16000	20100			23.6	65
20		8000	12100	3200	2270	14.8	40
25	2500	10000	14100			18.6	50
30		12000	16100			22.2	60
35		14000	18100			26	70
40		16000	20100			29.8	80
50	3000	20000	24100	3750	2270	41	95
30		10000	14100			22.8	60
36		12000	16100			27.5	72
42		14000	18100			32.5	85
54		18000	22100			45	105
60	4000	20000	24100	4800	2470	50.5	120
48		12000	16100			39.5	92
56		14000	18100			46.8	110
64		16000	20100			52.6	120
72		18000	22100			58.3	145
180	4500	20000	24100	7100	5500	63	160
144		32500	41200			70	360

也可根据现场和物料情况设计机型

目前已广泛应用于冶金、矿山、石化、化工、洗煤、造纸、肥料、食品、制药、环保等领域中的固液分离，烟气脱硫中的石膏脱水、尾矿处理等行业。

The machine can also be designed according to the scene and material situation.

At present, it has been widely used in metallurgy, mining, petrochemical, chemical, coal washing, paper making, fertilizers, food, pharmaceutical, environmental protection and other fields of solid-liquid separation, the flue gas desulfurization gypsum dehydration, tailings disposal, etc

MAIN PARTS

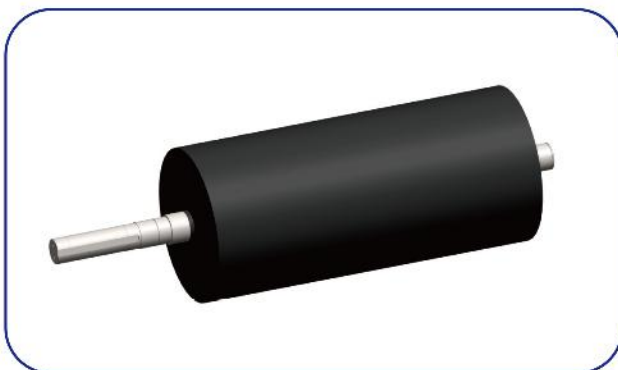
主要部件图



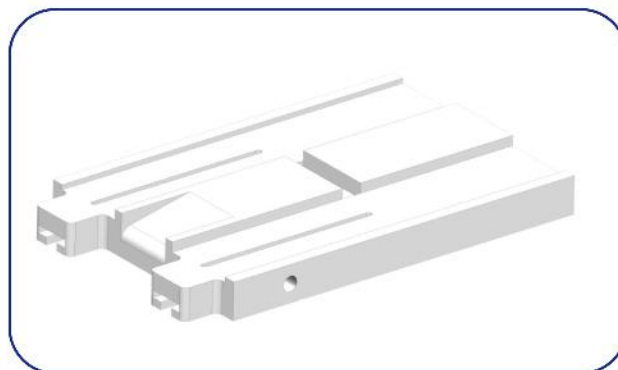
橡胶过滤带 / RUBBER BELT



辊子 / ROLLERS



驱动辊 / DRIVE ROLLER



滑台 / SLIPWAY



气囊纠偏 / GASBAG FOR RECTIFY



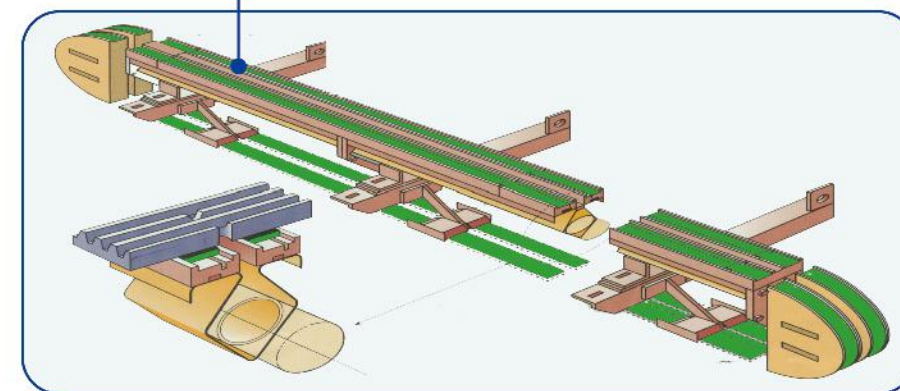
滤布 / FILTER CLOTH

VACUUM CHAMBER SYSTEM

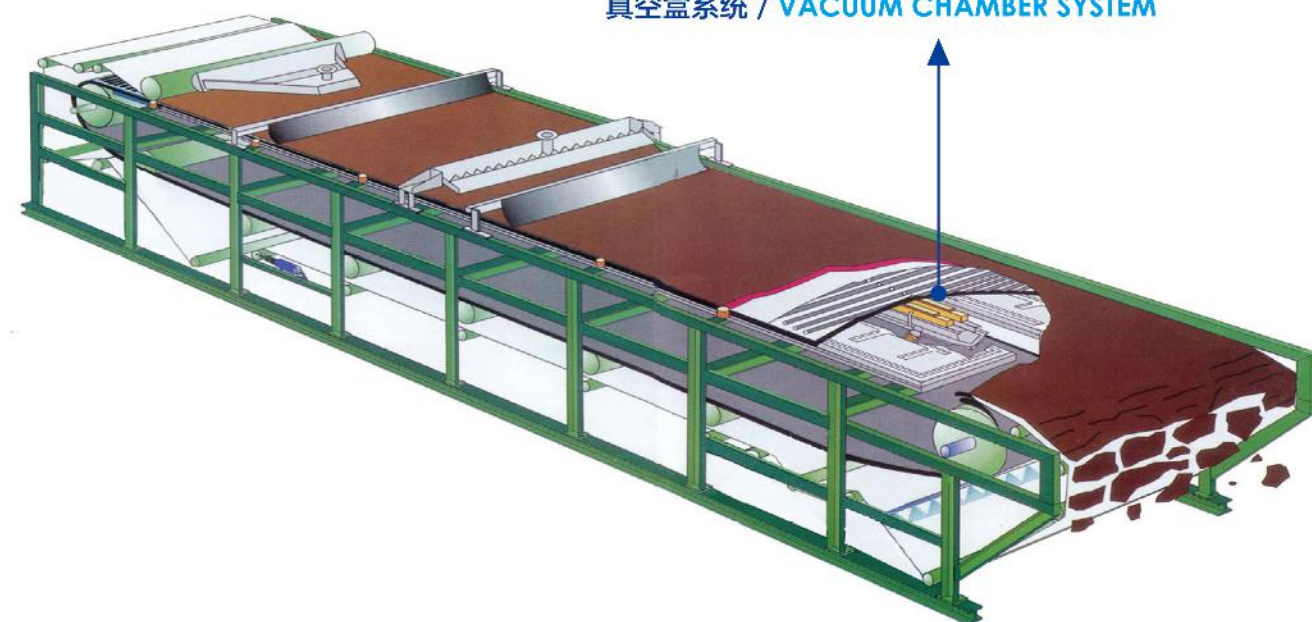
真空系统



摩擦带 / FRICTION BELT



真空盒系统 / VACUUM CHAMBER SYSTEM



USING SITE

现场应用图



APPLICATION

应用范围



DI HORIZONTAL VACUUM TRAY BELT FILTER

DI系列连续水平真空带式过滤机

简介 / BRIEF INTRODUCTION

DI系列连续水平真空带式过滤机是一种自动化程度高的新型过滤设备，该机以过滤布或滤网为介质，使料浆水平布置于过滤介质上，充分利用料浆重力和真空吸力实现固液分离。连续水平真空带式过滤机可适用多种浓度条件下的物料，过滤效率高，因而被诸多工业部门优先采用。

DI Series continuous horizontal vacuum belt filter is a high level automatic new - type filter. this type of filter use cloth or filter screen as medium, make the slurry be placed horizontally on the medium, use slurry gravity and vacuum suction to reach solid-liquid separation. It applicable in many kinds of concentration material, because of the high filtering efficiency, it priority used in many industries.



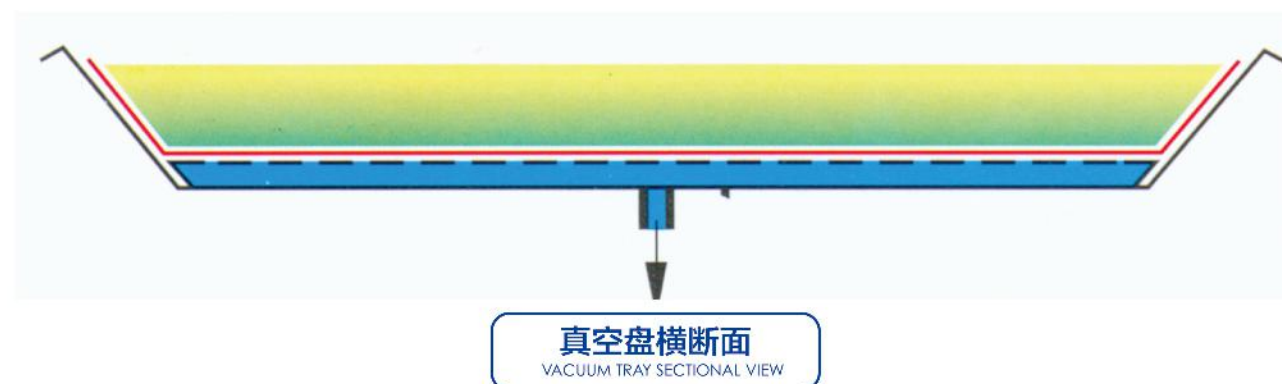
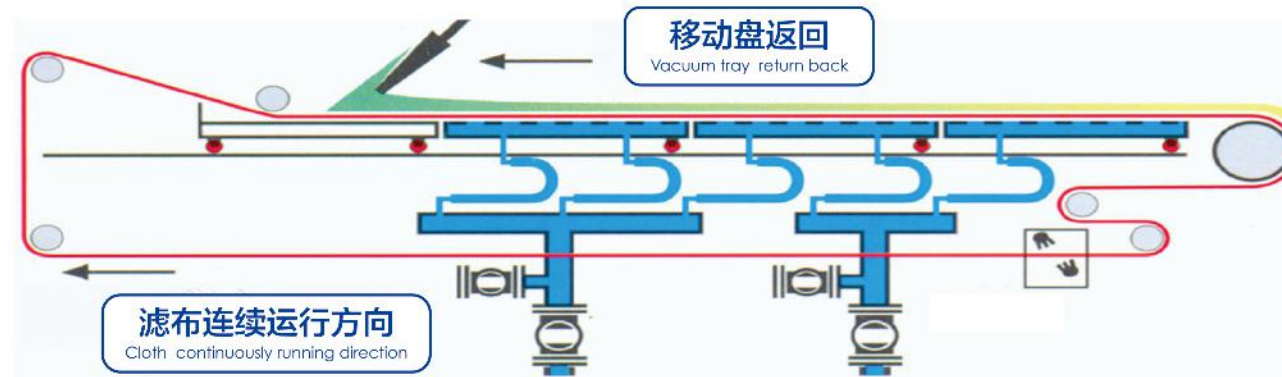
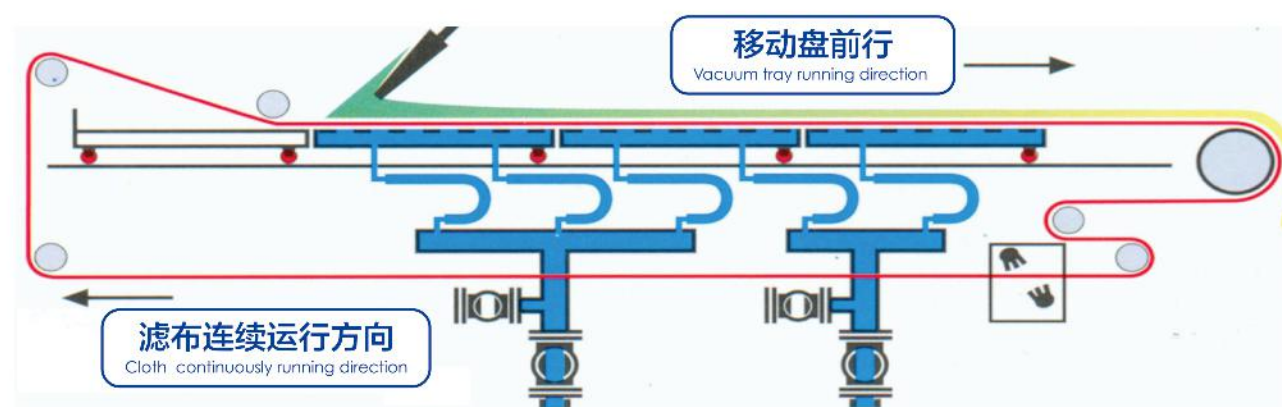
常规DI设备 / DI SERIES EQUIPMENT



全封闭式DI系列设备 / FULLY COVERED DI EQUIPMENT

WORKING PRINCIPLE DIAGRAM

设备工作原理图



TECHNOLOGY FEATURES

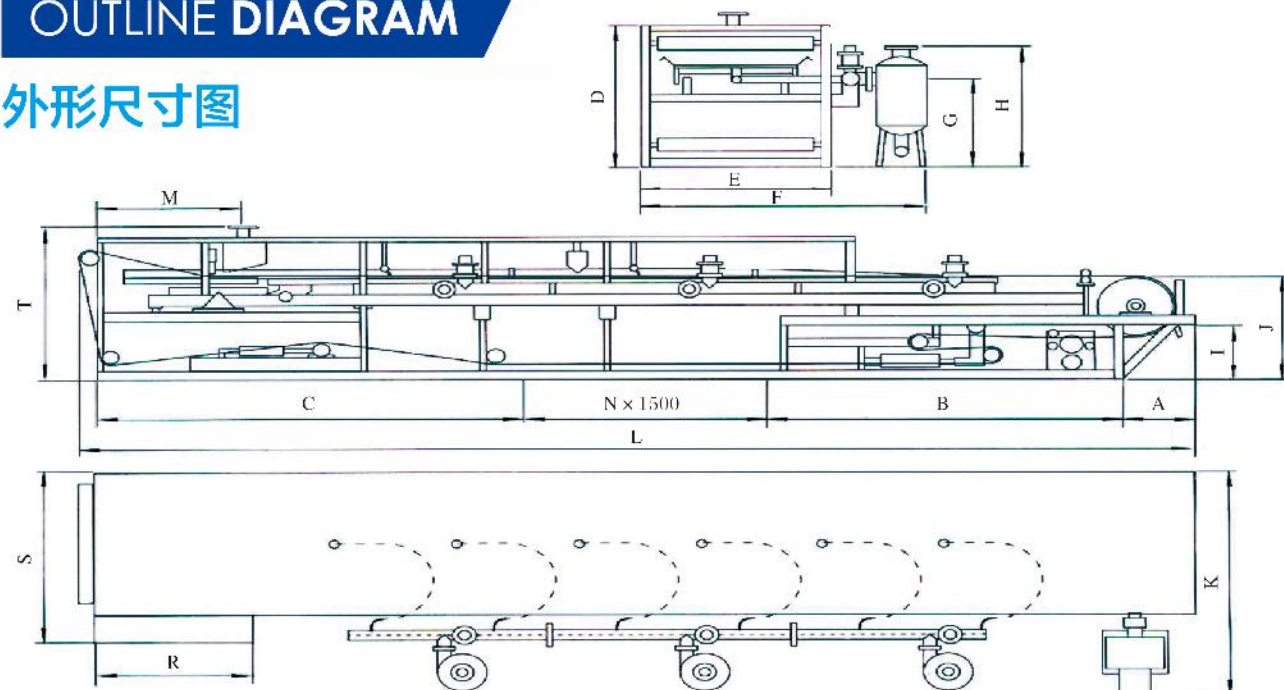
技术特点

- ① 喂料，过滤，洗涤，脱渣，滤布再生，滤布纠偏可连续自动完成，自动化程度高。
- ② 可对物料进行多级平流或逆流洗涤，过滤液(母液)和洗涤液可分开集液。
- ③ 对过滤性差，粘度高的物料，可实现薄层快速过滤，适应性强。
- ④ 模块式设计，可灵活组合，便于运输，安装和维护。
- ⑤ 采用PLC控制，便于远程及集中控制。

- ① Feeding, filtering, cake washing, cake discharging, filter cloth washing and redirection can be finished continuously and automatically, so it has high level automation.
- ② It can wash cake with several times clean water and filtrate, the filtrate (mother liquor) and washed liquor can be collected separately.
- ③ It can filter quickly in a thin layer for the sludge with high viscosity and bad filtration character and has high adaptability.
- ④ It's flexible to assemble by its modular structure, convenient for transportation, installation and maintenance.
- ⑤ It's convenient to remote and local control by PLC control.

OUTLINE DIAGRAM

外形尺寸图



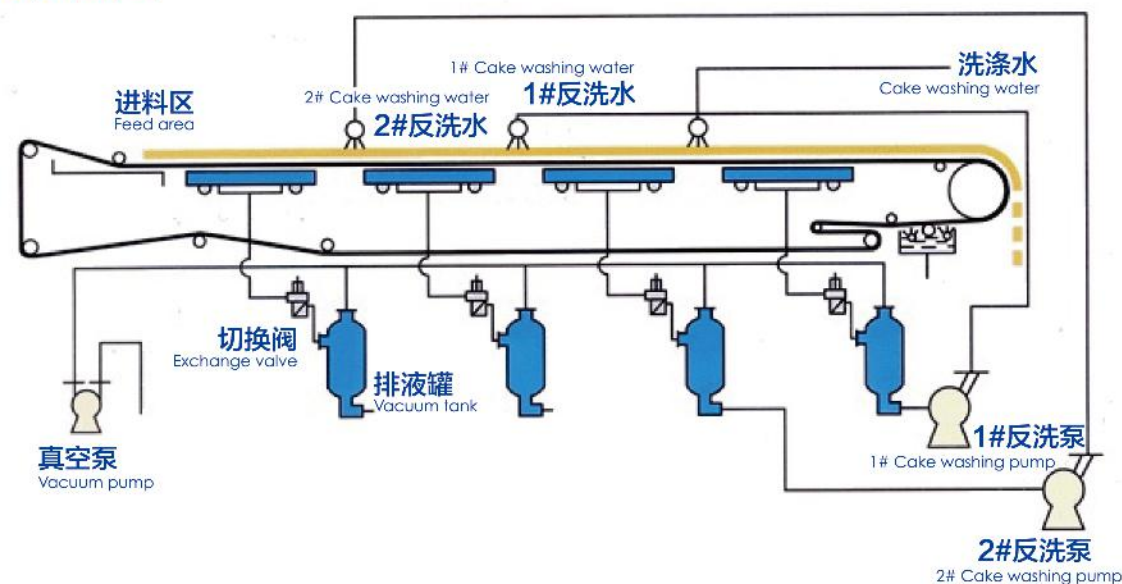
TECHNOLOGY PARAMETER

技术参数

虑室宽度 Width of Filter tray	0.625-2.0 (m)		2.5-3.0 (m)		0.625m		1.25m		1.6m		2.0m		2.5m		3.0m	
过滤长度 Filtering length (mm)	N	L	N	L	过滤 面积 Filtering Area (mm)	重量 (Kg)	过滤 面积 Filtering Area (mm)	重量 (Kg)	过滤 面积 Filtering Area (mm)	重量 (Kg)	过滤 面积 Filtering Area (mm)	重量 (Kg)	过滤 面积 Filtering Area (mm)	重量 (Kg)	过滤 面积 Filtering Area (mm)	重量 (Kg)
3000	0	6125	01	6125	1.9	2400	3.8	2580	4.8	3100	6.0	3400	7.5	3800	9.0	4200
4500	1	7650	2	7650	2.8	2600	5.6	2100	7.2	3400	9.0	3750	11.3	4200	13.5	4650
6000	2	9150	3	9150	3.8	2800	7.5	3350	9.6	3700	12.0	4100	15.0	4600	18.0	5100
7500	3	10650	4	10650	4.7	3000	9.4	3600	12.0	4000	15.0	4450	18.8	5000	22.5	5550
9000	4	12150	5	12150	5.6	3200	11.3	2850	14.4	4300	18.0	4800	22.5	5400	27.0	6000
10500	5	13650	6	13650	6.6	3400	13.1	4100	16.8	4600	21.0	5150	26.3	5800	31.5	6450
12000	6	15150	7	15150	7.5	3600	15.0	4350	19.2	4900	24.0	5500	30.0	6200	36.0	6900
13500	7	16650	8	16650	8.4	3800	16.9	4600	21.6	5200	27.0	5850	33.8	6600	40.5	7350
A					600		600		600		600		500		500	
B					2400		2400		2400		2400		2000		2000	
C					3000		3000		3000		3000		2000		2000	
D					1550		1550		1650		1650		1700		1700	
E					1100		1800		2200		2600		3150		3650	
F					2100		2800		3200		3600		4150		4650	
G					973.5		973.5		973.5		973.5		1028.5		1028.5	
H					1348.5		1348.5		1348.5		1348.5		1403.5		1403.5	
I					585		585		585		585		612		612	
J					1104		1104		1104		1104		1163		1163	
L					2030		2736		3136		3536		4146		4646	
M					1300		1300		1300		1300		1300		1300	
R					1250		1250		1250		1250		1350		1350	
S					1400		2100		2500		2900		3450		3950	
T					1470		1670		1770		1770		1870		1870	

PROCESS FLOW DIAGRAM

工艺流程图



使用现场 / USING SITE



柠檬酸应用 / CITRIC ACID



尾矿干排应用 / TAILINGS DEWATERING



金属冶金应用 / METALLURGY



调味品应用 / CONDIMENTS

清洗装置 / WASHING DEVICE

采用工艺水喷射清洗滤布，且配有真空吸管密封的箱体，这样可以保证清洁的工作现场。喷头采用美国喷雾公司的产品，可以充分保证清洗效果。

Use process water to spray washing cloth and equipped with vacuum sealing box to ensure the using site clean. The spray nozzle uses the American atomization company product to fully guarantee the washing effect.

物料淋洗工艺 / CAKE WASHING PROCESS

采用溢流淋洗与喷淋淋洗装置，同时可根据物料及工艺的要求采用顺流洗涤或逆流洗涤两种方法，对物料清洗的更彻底。

Adopt the overflow washing and drip spray washing devices, according to the material and the process requirement to use clean water direct washing or the filtrate indirect washing, which can wash the cake thoroughly.

纠偏装置 / REDIRECTION DEVICE

采用气缸或气囊推动纠偏辊偏转一定角度来自动纠正滤布的偏移，保证滤布的正常运转。

Adopt cylinder or air-bag to push the redirection roller move a certain angle to adjust the cloth automatically and ensure the cloth running normally.

真空系统 / VACUUM SYSTEM

采用可移动的连续排液真空系统，排液效率高，产能高。

adopt movable continuously discharge filtrate vacuum system, so get high efficiency for filtrate discharge and high capacity of cake.

控制系统 / CONTROL SYSTEM

采用远程与现场交互控制的方式，方便了工作的操作，便于实施无人操作。

Adopts remote and local alternately control, convenient for the operation work and unmanned operation.

TYPICAL APPLICATION LIST

典型应用实例表

物料名称 Name of raw material	液固比 Liquid & solid ratio	滤饼含水 (%) Water content in cake	生产效率 (干) Kg/M ² /h Productivity (dry)
柠檬酸	Citric acid	5/1-3/1	15
氧化锌	Zinc Oxide	10/1	51.2
氧化锰还原酸浸矿浆	Mining slurry soaked by Mno reduction acid	3/1	45.06
磁铁矿	Ferromagnet	2.5/1-4/1	7.6
硫精矿	Sulphur mine	4/1-2.5/1	11.63
铜精矿	Copper mine	4/1-2.5/1	12
全尾矿	Mine remaining part	9/1-4/1	21.4
精铁矿	Iron-stone	2/1-1.5/1	8-10
锰矿	Manganite	2/1	15-17
氢氧化铝	Aluminium by droxide	4/1	15-17
萤石粉	Fluorite powder	2/1	11
苛化泥	Caustic mud	4/1	47-51
五氧化二钒	Vanadium Oxide (V O)	3/1	33
煤烟灰	Cool ash	10/1	20.7
金精矿	Gold mine	2/1	25-27
重钨酸铵	Sub-ammonium tungstate	2/1	71
偶氮有机染料	Oranic nitrous dye-stuff	30/1-20/1	69
烧碱和cus混合液	Mixture of sodium hydrox and cus	4/1	19.6
ABS树脂	ABS resin	10/1	36-38
磷酸钙矿浆	Slurry of calciuim phosphate	3.5/1	21.5
溶性磷肥	Soluble phosphate	2/1-5/1	7-10
硫酸污泥	Sulphuric sludge	1.5/1	37-40
铝矾土	Alumine	5/1-4/1	26.4-29
苛化泥	Caustic mud	4/1	47-51
硫酸铝残渣	Residue silicon of aluminium sulphate	1.5/1	37
庆大霉素发酵液	Fermentated liquid of gentamicin	1/1-2/1	33.1
粗氧化锌	Coarse Zinc Oxide	4/1	23.5
含氟石灰	Fluoride-bearing calcim lime	4/1-5/1	42-51
盐铵	Ghlor ammon	4/1	18-20
硅氟化钠	Sodium fluoride silicate	3/1	25-20
湿法水泥	Wet Cement	2/1	16-20
选煤精煤	Fine coal of coal dressing	4/1	22.4
选煤尾煤	Tail coal of coal dressing	6/1	25
硫酸锌矿浆	Zinc sulphate slurry	5/1	45-50

DLY VERTICAL BELT PRESS FILTER

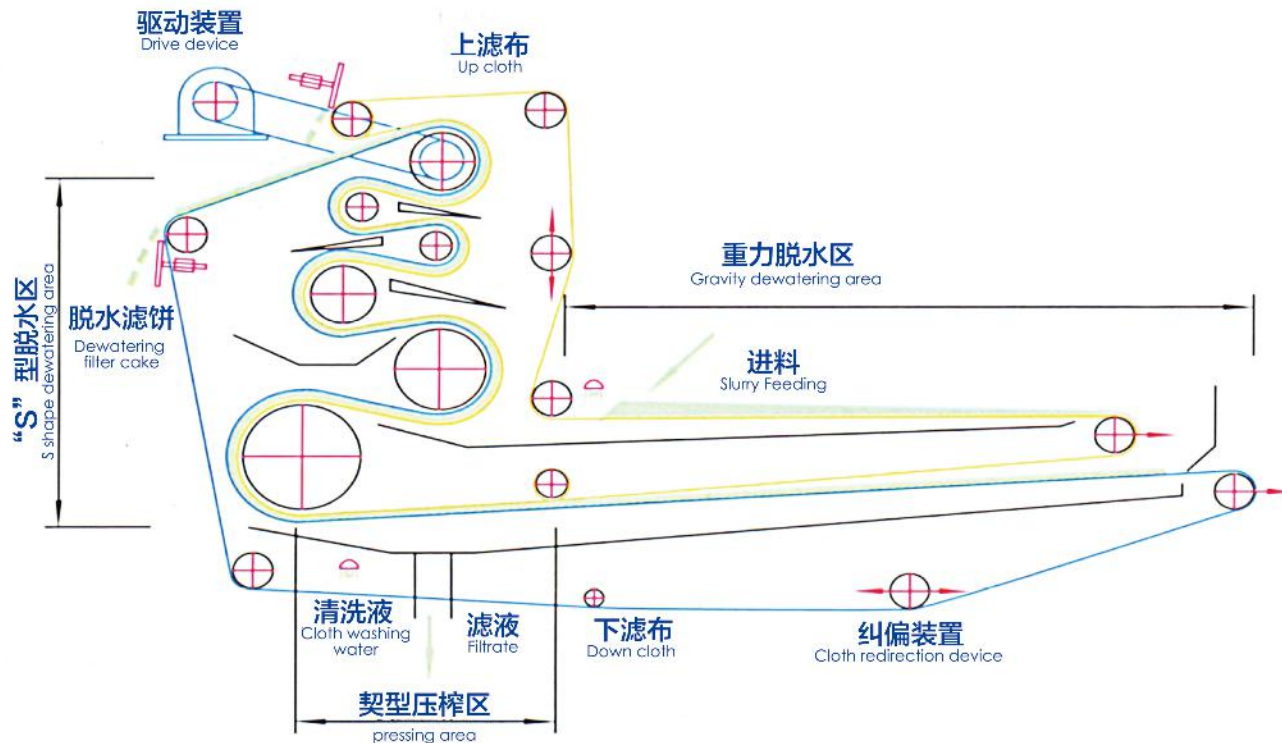
DLY 立式带式压滤机

DLY 设备简介 / DLY BRIEF INTRODUCTION

DLY型立式带式压滤机是一种高效连续运行的固液分离设备，用于城市生活污水厂、自来水厂以及造纸、制革、印染、屠宰，石油化工、制药、冶金建材、酿造、食品等行业工业废水的污泥脱水工序。也适用于工业生产中的固液分离或液体浸出工序和资源回收。

DLY vertical belt press filter is a high efficient continuous operation solid-liquid separation equipment, which used in municipal sewage plants, water plants, as well as paper, leather industry, printing, slaughtering, petrochemicals, pharmaceuticals, metallurgy and building material, brewing and food industries' industrial waste water dewatering process. It also applied in solid-liquid separation of industry production or liquid leaching process and resources recycling.

DLY型设备工作原理图 / DLY WORKING PRINCIPLE DIAGRAM



TECHNICAL FEATURES

技术特点

- ① 二级重力预脱水，脱水效率高；

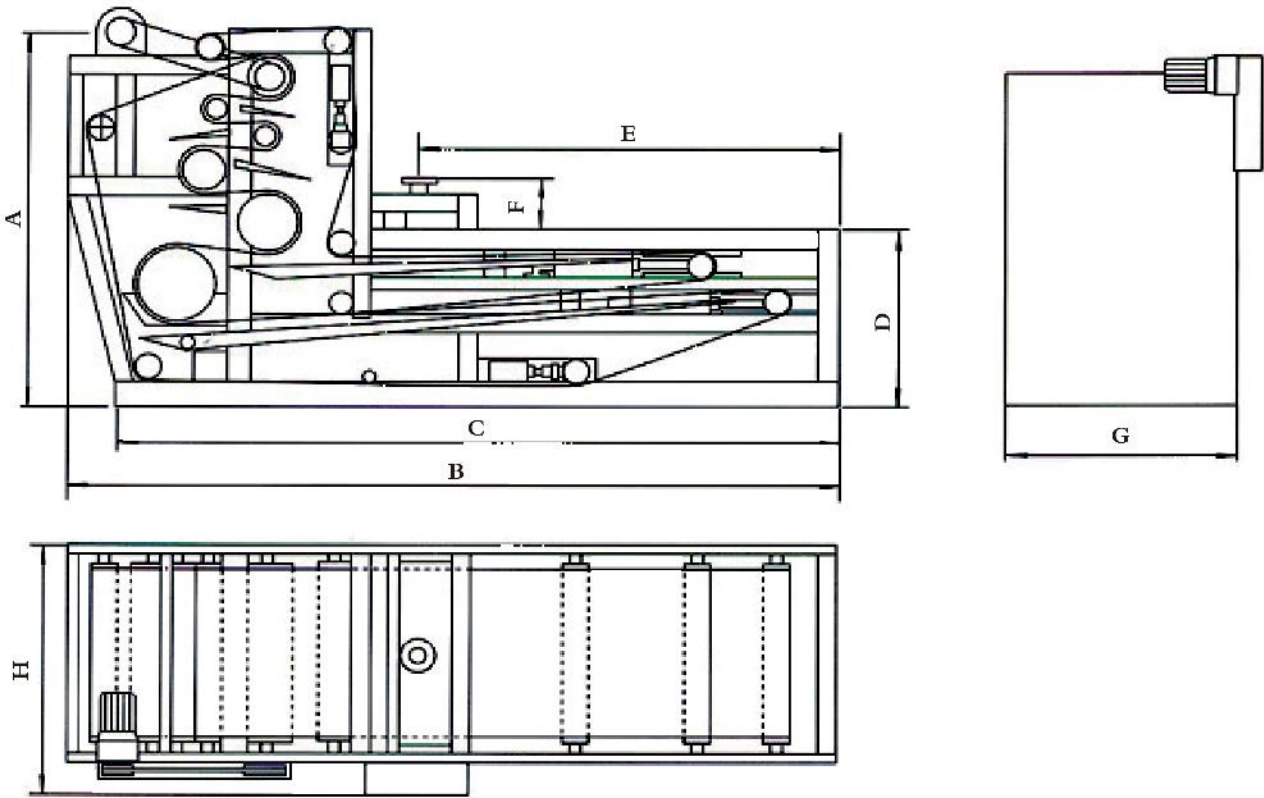
② 蛇形自动纠偏，工作可靠；

③ 框架式结构，便于安装、维护。
- ① Double gravity dehydration, high, dehydration efficiency.

② It's reliable for operation because of "snake" -shape Auto skew redirection.

③ It's convenient for installation and maintenance because of frame structure.

DLY 立式带式压滤机外形尺寸图
DLY VERTICAL BELT PRESS FILTER



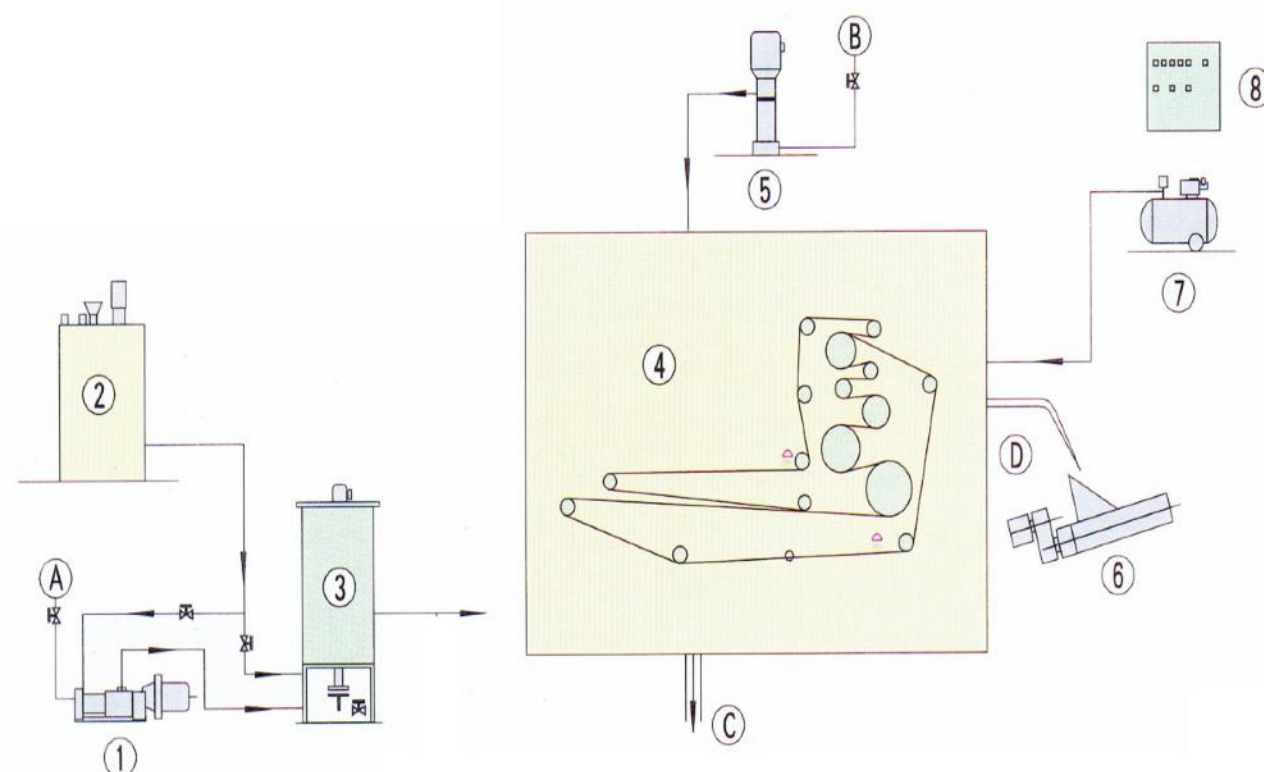
TECHNICAL PARAMETER

技术参数

参数 Parameter		型号 Model	500	1000	1500	2000	2500	3000
过滤有效宽度 Efficient filter width	mm		500	1000	1500	2000	2500	3000
滤带速度 Filter cloth speed	M/min		0.6-6	0.6-6	0.6-6	0.6-6	0.6-6	0.6-6
主机功率 Main motor power	Kw		1.1	1.5	2.2	2.2	3.0	3.0
重量 Weight	T		2.2	2.7	3.2	3.7	4.9	5.7
处理量 Disposal capability	M³/h		2-4.5	4-8	7.5-12	10-17	15-21	18-25
清洗水耗量 Washing water consumption	L/min		30-50	60-75	80-100	120-130	140-160	180-200
机架外型 Frame outline (mm)	A		2230	2230	2320	2320	2380	2380
	B		4500	4500	4500	4500	4500	4500
	C		4275	4275	4275	4275	4275	4275
	D		1080	1080	1080	1080	1200	1200
	E		2200	2200	2200	2200	2200	2200
	F		350	350	350	350	350	350
	G		1150	1650	3150	2650	3150	3650
	H		1450	1950	2450	2950	3450	3950

TYPICAL PROCESS FLOW DIAGRAM

典型工艺图



- ① 污泥给进泵 / SLURRY FEEDING
- ② 絮凝剂箱 / FLOCCULANT SOLUTION TANK
- ③ 絮凝剂 / FLOCCULANT
- ④ 带式压榨过滤机 / BELT PRESS FILTER
- ⑤ 洗涤水泵 / WASHING WATER PUMP
- ⑥ 输送用螺旋泵 / TRANSFER SCREW PUMP
- ⑦ 空气压缩机 / AIR COMPRESSOR
- ⑧ 配电箱 / ELECTRIC CABINET

- A 污泥进入 / SLUDGE INLET
- B 洗净用水进入 / WASHING WATER INLET
- C 过滤物排出 / FILTRATE DISCHARGE OUT
- D 污泥排出 / CAKE DISCHARGE OUT

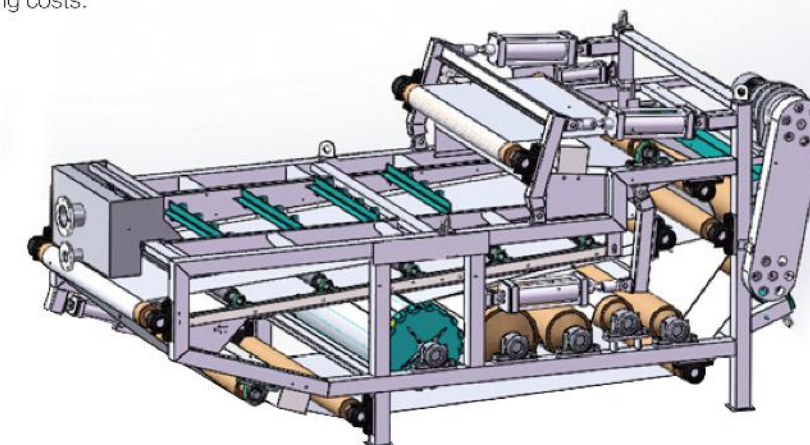
DWY HORIZONTAL BELT PRESS FILTER

DWY卧式带式压滤机

DWY设备简介 / DWY BRIEF INTRODUCTION

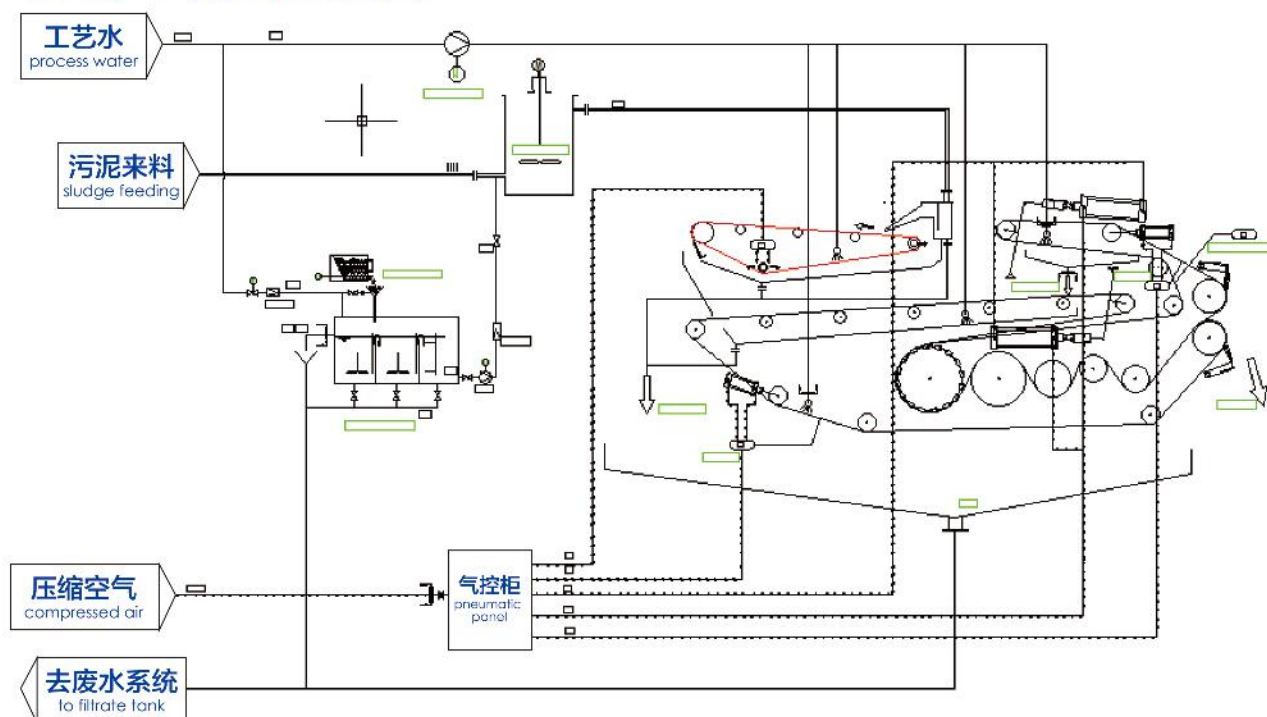
我厂设计制造的DWY系列卧式带式压滤机，滤带呈S型布置，污泥受压力由小逐渐变大且缓和。既适用于有机亲水性的物料的脱水，也可用于无机疏水性物料的脱水。由于加长了沉降区的长度，本系列压滤机对不同种类的物料都有丰富的压滤脱水经验，针对印染污泥、电镀污泥、造纸污泥、化工污泥、城市污水污泥、矿业污泥、重金属污泥、皮革污泥、钻井污泥、酿造污泥、食品污泥、铝业污泥、炼油厂“三泥”、化纤厂气浮泥、陶瓷抛光大废水污泥、啤酒厂生化污泥、制碱盐污泥、湿法炼钒污泥、电解二氧化锰污泥、酒糟污泥、淀粉污泥、硫铁矿污泥、电石渣污泥、高岭土污泥、水泥厂污泥、洗煤厂煤泥、烧结浓缩大矿浆污泥、钢铁厂尾污泥、钢铁厂转炉污泥、钢铁厂高炉瓦斯污泥等行业的污泥不同的特性，我们在带式压滤机上都有专门的设计以帮助客户提高污水的处理量，降低泥饼含水率，降低运行成本。

The DWY horizontal belt filter press is designed and manufactured by our factory. It has S-shaped filter belt, so the pressure of sludge is gradually increased and eased. It is suitable for the dewatering of organic hydrophilic materials and inorganic hydrophobic materials. Due to lengthening the settling zone, this series of press filter has rich experience in filter pressing and dewatering of different types of materials. Considering different characteristics of printing and dyeing sludge, electroplating sludge, papermaking sludge, chemical sludge, municipal sewage sludge, mining sludge, heavy metal sludge, leather sludge, drilling sludge, brewing sludge, food sludge, aluminum sludge, oil refinery "three sludge", gas floating sludge of chemical fiber plant, ceramic polishing wastewater sludge, brewery biochemical sludge, alkali salt making sludge, wet smelting sludge, electrolytic manganese dioxide sludge, distillers grains sludge, starch sludge, pyrite mine sludge, carbide slag sludge, kaolin sludge, cement plant sludge, coal washing plant sludge, sintering concentrated large slurry sludge, steel plant tailings sludge, steel plant converter sludge, steel plant blast furnace gas sludge and sludge in other industries, we have special designs on the belt press filter to help customers improve treatment capacity of sewage, reduce moisture content of cake, and reduce operating costs.



DWY TYPICAL PROCESS DIAGRAM

DWY 典型工艺图



TECHNICAL SPECIFICATION

规格和技术参数

机型 model	带宽 cloth width (mm)	主机功率 main motor power (kw)	滤布清洗水 cloth washing water		压缩空气 compressed air		外形尺寸 outline dimension (mm)
			水量 water consumption (m3/h)	水压 water pressure (MPa)	气量 air flowrate (m3/min)	气压 pressure (bar)	
DWY-1000	1000	2.2	2.5~4.0	0.5	0.2	3-5	4850*1800*2100
DWY-1500	1500	4.0	3.5~5.0	0.5	0.3	3-5	4850*2300*2100
DWY-2000	2000	4.0	5.0~6.5	0.5	0.3	3-5	4850*2800*2100
DWY-2500	2500	5.5	6.3~8.0	0.5	0.3	3-5	5900*3350*2150
DWY-3000	3000	7.5	7.5~10.0	0.5	0.3	3-5	5900*3850*2150

TECHNOLOGY FEATURES

技术特点

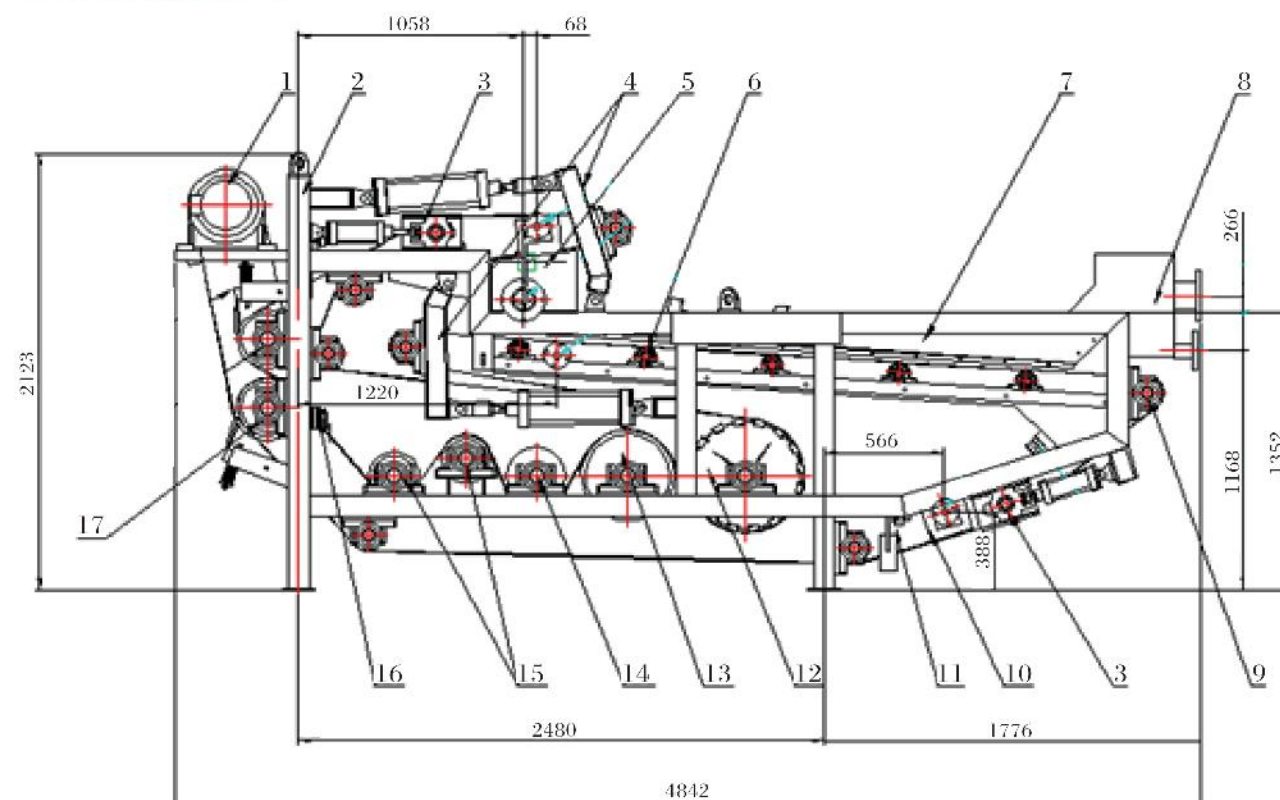
- ① 可根据物料种类，脱水要求设计物料调理系统。可达到物料絮凝效果好，絮凝剂用量少，降低运行费用的目的。
- ② 根据物料性质选择滤带材料等。滤带过滤能力和再生性能，剥离性能良好，保证物料脱水效果优良。
- ③ 配备离心水泵、过滤器、喷水管等，滤带再生效果好，喷水管清理简便，耗水量少，且可使用排水冲洗滤带。
- ④ 带速调节简便，易选择最佳带速。
- ⑤ 重力脱水区设数道物料犁耙，破坏物料表面张力提高了脱水效果。

加长了压榨脱水区长度，尤其适合对难脱水的又细又粘且夹带纤维、细绳等杂物的物料（如印染厂污泥）进行脱水，滤带的拉紧和调偏，采用气动元件等自动控制，调整简便，运行平稳可靠，维修简单。整机自动化程度较高，操作工劳动强度小。整机为敞开式布置，便于观察设备运行情况，便于调整和维护。

- ① The material conditioning system can be designed according to materials and dewatering requirements. It can achieve good flocculation effect, less flocculant dosage and lower operating costs.
- ② Select filter belt material according to processing materials. The filter belt has good performance of filtration, regeneration and stripping to ensure excellent effect of material dewatering .
- ③ Equipped with centrifugal water pump, filter and water spraying pipe, etc., regeneration effect of filter belt is good, water spray pipe is easy to clean and water consumption is small, filter belt can be washed with discharge water.
- ④ Adjustment of belt speed is simple, easy to choose the best belt speed.
- ⑤ The gravity dewatering zone is equipped with several material plough harrows, which destroy surface tension of materials and improve dewatering effect.
- ⑥ Lengthening the press dewatering zone, especially suitable for dewatering of some materials which are difficult to process, if they are sticky and entrained with fibers, strings and other debris (such as printing and dyeing sludge). The tensioning and redirection of filter belt can control automatically because of pneumatic components. It becomes easy to adjust and maintain, keeps stable and reliable. The automation degree of whole machine is pretty high, and labour intensity of operators is low. The open design makes whole machine convenient for observing equipment operation, facilitating adjustment and maintenance.

EQUIPMENT STRUCTURE

设备结构图



- | | |
|---------------------------------------|--|
| 1 转动组件 / RUNNER ASSEMBLY | 10 低压笼辊 / LOW PRESSURE CAGE ROLLER |
| 2 机架 / FRAME | 11 1#中压榨辊 / LOW-PRESSURE PRESS ROLLER |
| 3 纠偏装置 / RECTIFY DEVICE | 12 2#中压榨辊 / MEDIUM-PRESSURE PRESS ROLLER |
| 4 张紧装置 / TENSIONING DEVICE | 13 高压压榨辊 / HIGH-PRESSURE PRESS ROLLER |
| 5 上滤布清洗装置 / UP CLOTH WASHING DEVICE | 14 限位开关 / LIMIT SWITCH |
| 6 给料装置 / FEEDING DEVICE | 15 1#卸料辊 / DISCHARGING ROLLERS |
| 7 改向辊 / REDIRECTION ROLLER | 16 2#卸料辊 / DISCHARGING ROLLERS |
| 8 下滤布清洗装置 / DOWN CLOTH WASHING DEVICE | 17 卸料装置 / DISCHARGING DEVICE |
| 9 纠偏发生器 / RECTIFY GENERATOR | |

USING SITE

使用现场



DZY VACUUM BELT PRESS FILTER

DZY 型真空带式压滤机

简介 / BRIEF INTRODUCTION

DZY带式真空压滤机是我公司原创的一种新型压滤设备。其以特质滤布作为过滤介质，依靠真空吸力结合高压脱水区，通过滚筒与滤布反复挤压和剪切，最大限度的除去滤饼水份的过滤分离设备。适用于工业过滤，污泥等各种粘细物料的脱水。

DZY Vacuum Belt Press Filter is a new type of press filter which original designed by our company. It using the special fabric cloth as the filter medium, relying on the vacuum function and high-pressure dewatering zone, through the repeatedly extrusion between the rollers and cloth to reduce the moisture from the cake as low as possible. It is applicable for industrial filtration and all kinds of sticky and fine material dewatering.



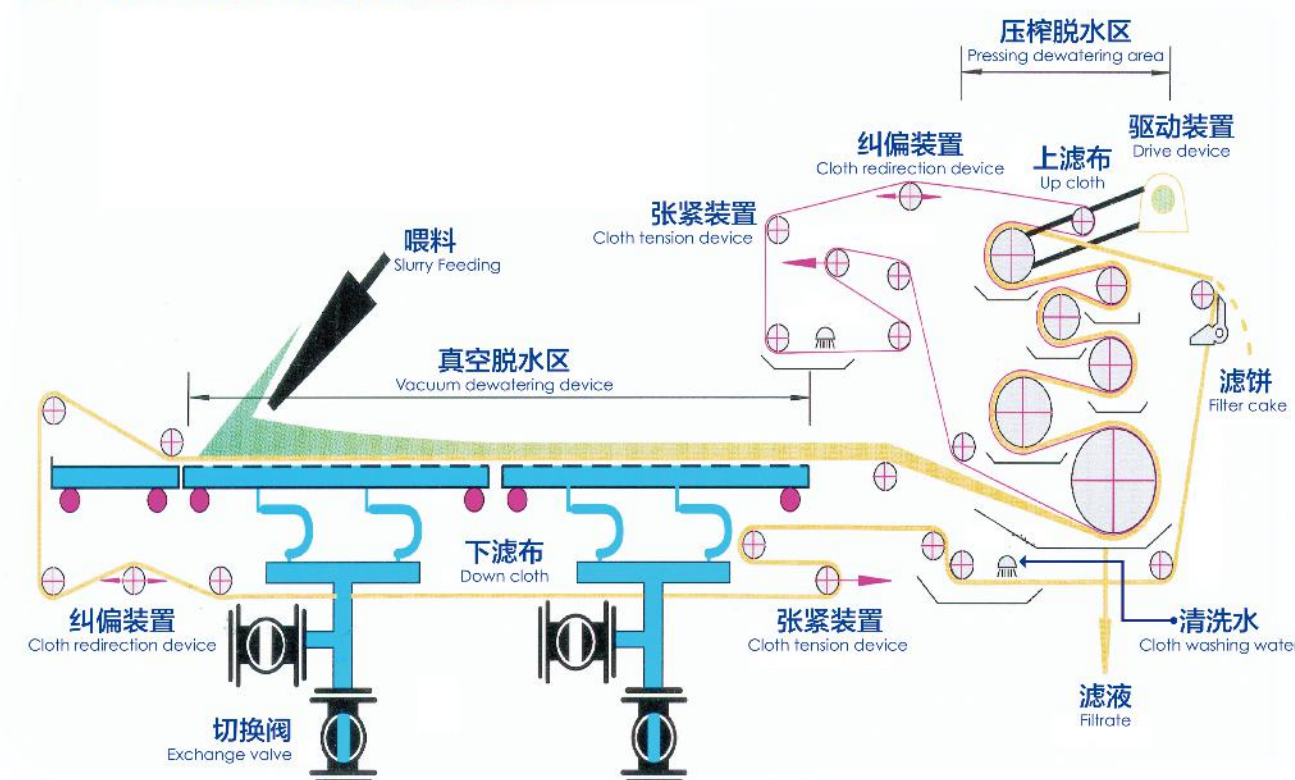
常规DZY设备 / DZY SERIES EQUIPMENT



全封闭式DZY系列设备 / FULLY COVERED DZY EQUIPMENT

DZY WORKING PRINCIPLE DIAGRAM

DZY 型设备工作原理图



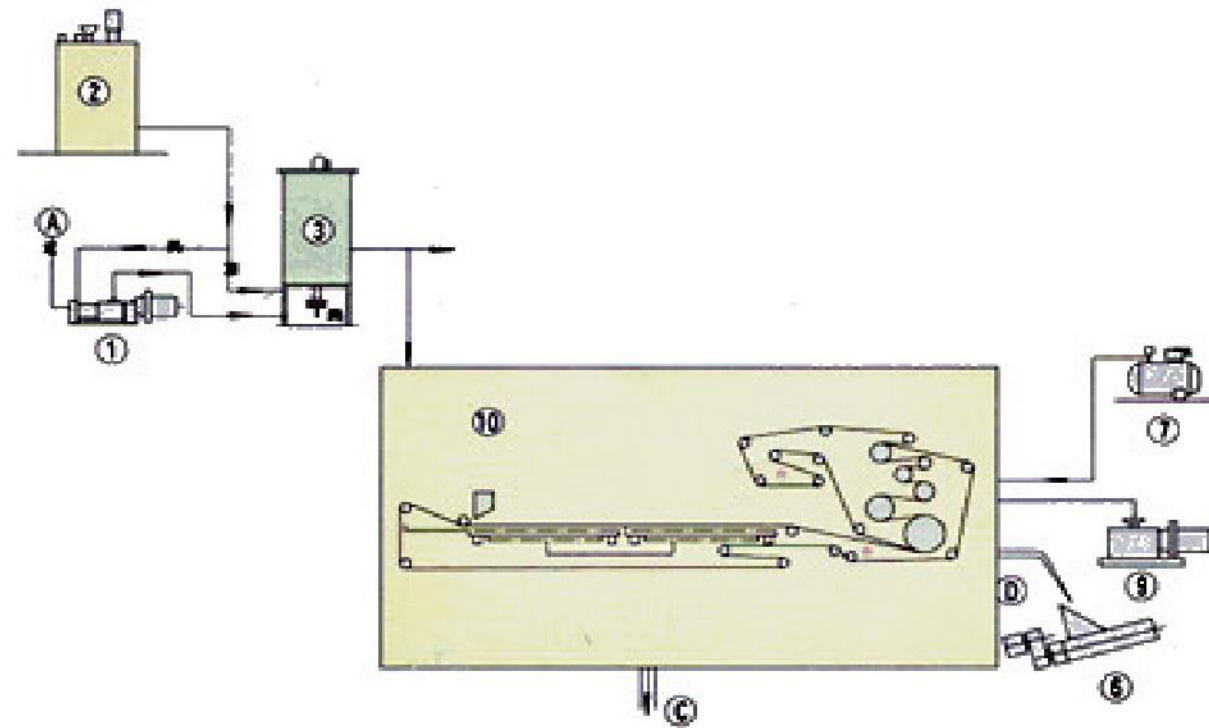
TECHNOLOGY FEATURES

技术特点

- ① 真空预脱水，大大提高脱水效率。
 - ② 真空脱水区可对物料连续洗涤。
 - ③ 模块式设计，机型可灵活组装。
- ① Vacuum dewatering raised the dewatering efficiency greatly.
 - ② It can wash sludge continuously within vacuum dewatering zone.
 - ③ It's flexible to assemble equipment because of modular structure.

PROCESS FLOW DIAGRAM

工艺流程图



- ① 污泥给进泵 / SLUDGE FEED PUMP
- ② 絮凝剂箱 / FLOCCULANT SOLUTION TANK
- ③ 絮凝剂 / FLOCCULANT
- ④ 带式压榨过滤机 / BELT PRESS FILTER
- ⑤ 洗涤水泵 / WASHING WATER PUMP
- ⑥ 输送用螺旋泵 / TRANSFER SCREW PUMP
- ⑦ 空气压缩机 / AIR COMPRESSOR
- ⑧ 配电箱 / ELECTRIC CABINET
- ⑨ 真空泵 / VACUUM PUMP
- ⑩ 真空带式压滤机 / VACUUM BELT PRESS FILTER

- A 污泥进入 / SLUDGE INLET
- B 洗净用水进入 / WASHING WATER INLET
- C 过滤物排出 / FILTRATE DISCHARGE OUT
- D 污泥排出 / CAKE DISCHARGE OUT

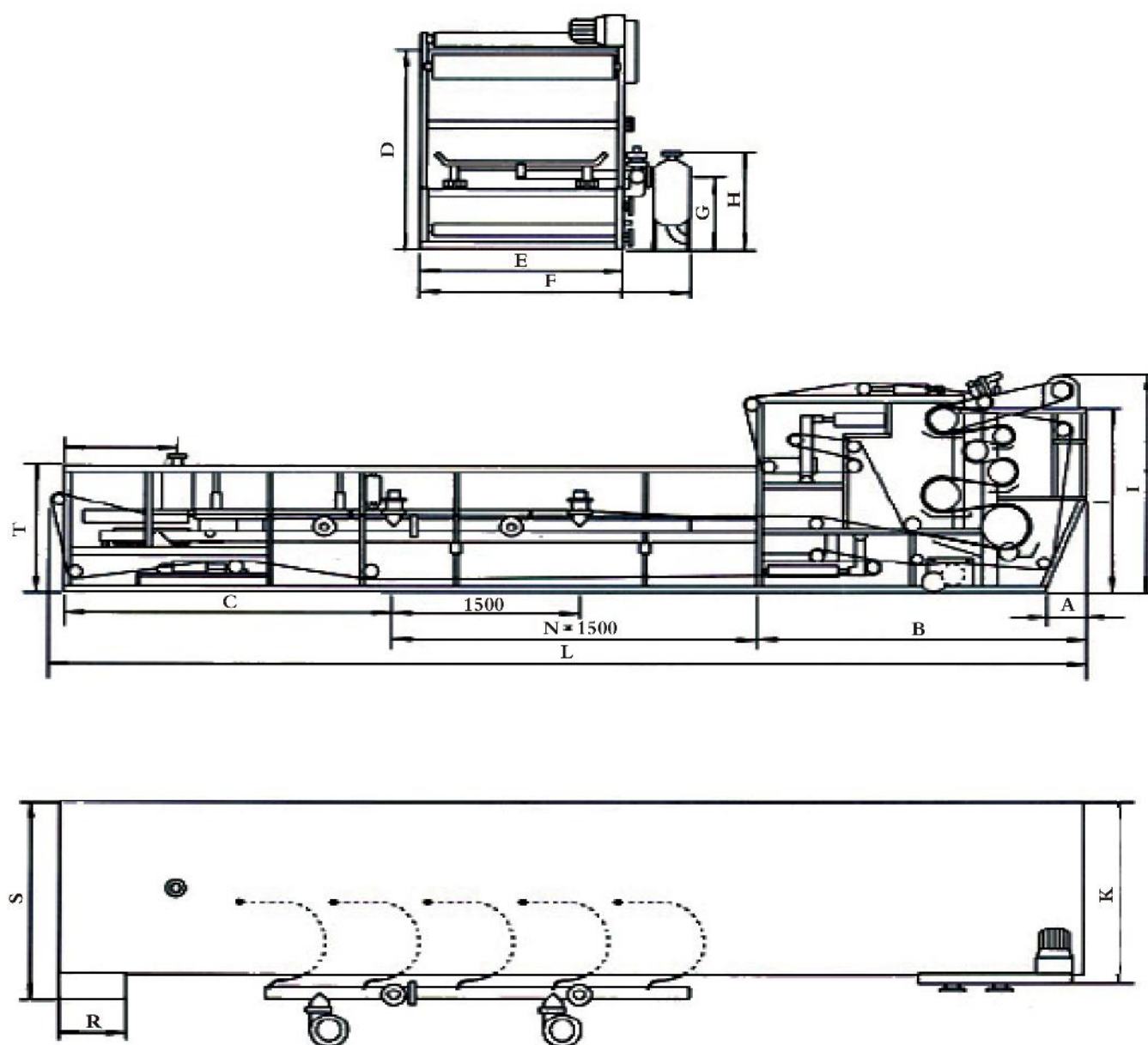
TECHNICAL PARAMETER

技术参数

虑室宽度 Width of Filter tray	500-2000 (mm)		2500-3000 (mm)		500mm		1000mm		1500mm		2000mm		2500mm		3000mm	
过滤长度 Filtering length (mm)	N	L	N	L	过滤面积 Filtering Area (mm)	重量 Weight (Kg)	过滤面积 Filtering Area (mm)	重量 Weight (Kg)	过滤面积 Filtering Area (mm)	重量 Weight (Kg)	过滤面积 Filtering Area (mm)	重量 Weight (Kg)	过滤面积 Filtering Area (mm)	重量 Weight (Kg)	过滤面积 Filtering Area (mm)	重量 Weight (Kg)
3000	1	8125	1	8159	1.50	3100	3.00	3700	4.50	4300	6.00	4900	7.50	5700	9.00	6300
4500	2	9650	2	9650	2.25	3250	4.50	2890	6.75	4525	9.00	5160	11.25	6000	13.50	6640
6000	3	11125	3	11150	3.00	3400	6.00	4080	8.00	4750	12.00	5420	15.00	6300	18.00	6980
7500	4	12625	4	12650	3.75	3550	7.50	4270	11.25	4900	15.00	5680	18.75	6600	22.50	7320
9000	5	14125	5	14150	4.50	3700	9.00	4460	13.50	5050	18.00	5940	22.50	6900	27.00	7660
10500	6	15625	6	15650	5.25	3850	10.50	4650	14.75	5275	21.00	6200	26.25	7200	31.50	8000
A					400		400		400		400		400		400	
B					3500		3500		3500		3500		3500		3500	
C					3000		3000		3000		3000		3000		3000	
D					2300		2300		2300		2300		2300		2300	
E					1150		1650		2150		2650		3200		3700	
F					2150		2650		3150		3650		4150		4650	
G					795		795		795		795		795		795	
H					1205		1205		1205		1205		1205		1205	
I					2200		2200		2200		2200		2200		2200	
J					2600		2600		2600		2600		2600		2600	
K					1350		1850		1350		1350		1350		1350	
M					1300		1300		1300		1300		1300		1300	
R					1250		1250		1250		1250		1250		1250	
S					1450		1950		2450		2950		3450		3950	
T					1520		1520		1520		1520		1600		1600	

DZY VACUUM BELT PRESS FILTER OUTLINE DIAGRAM

DZY 型真空带式压滤机外形尺寸图



APPLICATION

应用范围

