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波涛汹涌，挡不住我们前进的步伐；  
我是精华……

## 公司简介 Company introduction

郑州精华实业有限公司是一家专业从事各种淀粉工程设计、设备制造、工程安装调试、技术人员培训等工作的专业化淀粉工程技术公司。郑州精华实业有限公司为省级高新技术企业，在同行业中率先通过了ISO9001:2000质量体系认证，多项产品荣获了国家专利局颁发的实用新型及外观专利技术。公司为中国淀粉工业协会常务理事单位；中国淀粉工业协会甘薯淀粉专业委员会副会长单位；中国淀粉工业协会马铃薯淀粉专业委员会常务理事单位；中国食品和包装机械工业协会、薯类食品加工机械专业委员会副理事长单位。公司自行研制的薯类淀粉主加工设备被市技术监督局制定为行业产品执行标准。2004年公司与河南工大设计研究院强强联合，组建了唯一具有淀粉行业国家甲级设计资质的精华淀粉所。

郑州精华实业有限公司拥有理论扎实的科研技术队伍、经验丰富的专业人才以及先进的设计和生產设施。凭借自身雄厚的技术实力及河南工业大学在粮食加工方面得天独厚的技术优势，在过去的近二十年中，我公司先后为国内外上百家淀粉厂提供了工程设计，技术改造，设备制造安装等服务。先进可靠的技术和产品质量、完善周到的售后服务赢得了广大用户的一致好评。

Zhengzhou Jinghua Industry Co.,Ltd. is a professional starch engineering corporation. Depending on the unique advantage and strong strength of Henan University of Technology, ZZJH combines scientific research, industry and trade as a whole, which is mainly engaged the working of factory layout, technology design, complete equipment manufacturing and commissioning, new product developing etc. to all kinds starch processing. Awarded the title of Advanced & High Technology Enterprise by Henan Science & Technology Department and obtained the certification of ISO 9001:2000 quality management systems. ZZJH is the vice president member of the sweet potato starch professional committee of China Starch Industry Association units, the member of the potato starch professional committee and the vice president member of China food and packaging machinery industry association and potato food processing machinery professional committee unit. In 2004 ZZJH and Zhengzhou grain and oil food engineering construction design institute jointly established with the Jinghua starch station which is the only "class A" starch station.

Fire-new enterprise management concept and well staff quality make ZZJH a rapid development and on top posit on in domestic starch industry. Meanwhile,ZZJH pays closely attention to the new trend ,new technology of globe starch industry,cooperates and exchanges actively with advanced starch companies in the world.All these make ZZJH have a firm foundation for its long term development and create the first class technology,excellent products and good service to customers.





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Exchanging · Learning · Developing

## 国家专利

锉磨机外观设计专利

离心式浆渣分离筛实用新型专利

薯渣脱水机发明专利

一种具有进料自动打散功能的气流干燥机

### The National Invention Patent

Appearance Design Patent of Rasper

The Utility Model Patent of Centrifugal Sieve

The Invention Patent Potato of the Fiber Dehydrator

The Utility Model Patent of Rasper

The Utility Model Patent of High Efficiency Cleaning Machine

Efficient starch vacuum filter without treater

The air dryer with automatic scattering function

The cutting device of high efficiency and energy saving

锉磨机实用新型专利

高效除杂机组实用新型专利

高效无搅拌的淀粉脱水真空吸滤机

一种高效节能的切片装置

## 已出版的专业著作及汇编教材

《马铃薯淀粉生产与工艺设计》

《玉米淀粉工业手册》

《玉米淀粉湿磨加工技术与管理》

《GB/T8613-1999粮食质量国家标准》

《GB/T加工用马铃薯分级》

《GB/T8009-2008工业甘薯片国家标准》

《马铃薯产业与振兴》

《淀粉生产与质量控制技术》

《薯类淀粉加工技术与装备》

《粮食大辞典》

《粮油检验人员培训教材》

《薯类淀粉生产新技术》

### Professional published works

《Potato Starch Production and Processing Design》

《Corn Starch Industry Handbook》

《Technology Of Com Starch Processing》

《GB/T8613-1999Grain Quality Standard》

《GB/T Potato Grading Standard》

《GB/T8609-2008 Industrial Sweet Potato Quality Standard》

《Industry and Revitalization Of Potato》

《Starch Production and Quality Control Technology》

《Potato Starch Processing Technology and Equipment》

《Grain Dictionary》

《Training Book for Checker in Grain and Oil Test》

《The New Production Technology Of Potato Starch》

## 获奖科研项目

- ◆ 甘薯蛋白回收技术及功能性研究，中国农业科学院科技进步二等奖
- ◆ 封闭式薯类淀粉加工新工艺及设备研发，郑州市人民政府技术进步三等奖
- ◆ CM840型锉磨机，郑州市人民政府技术进步二等奖
- ◆ 封闭式薯类淀粉加工新工艺及设备研发，中国粮油学会科技进步二等奖
- ◆ XDL20型真空转鼓吸滤机，郑州市人民政府技术进步三等奖；
- ◆ 稻壳灰综合利用的研究，河南省科学技术进步三等奖；
- ◆ 籼米饼干的研究与开发，商业部科技进步三等奖；
- ◆ 即食糙米粉的开发，商业部科技进步三等奖；
- ◆ 陈米品质改良技术的研究，河南省科学技术进步三等奖；

### Researched Projects

- ◆ “Study on sweet potato protein recovery technology ” Science Progress Award of Chinese Academy of Agricultural Sciences,
- ◆ “Closed potato starch processing technology and equipment research ” Science Progress Award of Zhengzhou Municipal People's Government,
- ◆ “CM840 Rasper ” Science progress award of Zhengzhou Municipal People's Government
- ◆ “Closed potato starch processing technology and equipment research ” Science Progress Award of China Edible Oil Society
- ◆ “XDL20 Vacuum Filter ” , Science progress award of Zhengzhou Municipal People's Government,
- ◆ “Study on comprehensive utilization of rice hull ” , Science Progress Award of Henan Province,
- ◆ “Research and development of rice crackers ” , Science Progress Award of Business Department
- ◆ Development of instant rice noodles, Science Progress Award of Business Department
- ◆ Study on the improvement of rice quality, Science Progress Award of Henan Province

## 在研的科研项目有

- ◆ 甘薯产业化开发与示范工程，郑州市人民政府重大科技攻关；
- ◆ 国家“十一·五”支撑项目甘薯加工示范工程，国家科技支撑计划课题；
- ◆ 薯渣综合利用的研究，郑州市科学技术攻关项目；
- ◆ 甘薯蛋白生产工艺与装备的研究，河南省科学技术攻关项目；

### Researching Projects

- ◆ “Sweet potato industrialization development and demonstration project ” , Science and Technology Project of The people's Government of Zhengzhou,
- ◆ “The National "eleven five" project of sweet potato processing demonstration project ” , “Eleven Five” national science and technology support program
- ◆ “Study on comprehensive utilization of potato residue ” , Science and Technology Project of The people's Government of Zhengzhou,
- ◆ “Study on the processing and equipment of sweet potato protein ” , Science and Technology Project of The people's Government of Henan Province,





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## 研发能力 R&D ability

在新产品的研发方面，精华公司有着极强的开发能力，在董事长王彦波先生的主持下，公司先后出版发表了几十种有关各种淀粉加工技术的专业书籍与论文，公司既有在淀粉行业有实践经验的老专家、教授、工程师、技师，也有从各高校毕业的、经过实践锻炼的工程师，人员结构合理，实现了老中青的有机结合，为公司的后续发展、理论方面的更新换代打下了坚实的基础。

公司始终致力于淀粉加工技术的研究和新型设备的研制，在吸取国外先进技术的基础上，结合淀粉行业的特点，不断深入开发，研制出了一系列新型、实用、具有国际先进水平的淀粉加工设备。

With the strong ability in researching and developing new products. It has published several kinds of technical books and articles regarding starch processing technology, products and equipment in the past years. It possesses not only experts, professors, engineers and technicians who have practical experience in starch industry, but also young college students who are well up in computer and have practical exercises. Reasonable collocation of staff structure makes firm basis for theory's renovation and company's further development.

It devotes to develop new processing technology and new type equipment. On the basis of absorbing foreign advanced technology and combined with characteristic of starch industry, The company developed and manufactured series starch processing equipment with new type, utility and international advanced level.

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## 重大研究成果

- 闭环式薯类淀粉加工新技术；
- 木薯淀粉成套生产设备的开发
- 薯类蛋白的开发与应用研究
- 薯渣脱水干燥设备的研制
- 物料磨碎特性的研究；
- 浆料筛分与洗涤效果的研究；
- 淀粉乳浓缩、洗涤、回收工艺与参数的研究；
- 浆料真空脱水、离心脱水及压滤脱水技术的研究；
- 淀粉烘干水分自动控制技术的研究；
- 高水分高粘附性物料自动称量与包装技术的研究；
- PC、PLC生产控制技术的研究；
- CM1070铤磨机的研究；
- ZXS-1000型离心筛的研究；
- XDL-24型真空吸滤机的研究。

## Main Research Project

- New technology for potatoes starch processing with closed loop system
- Development of complicated production line for cassava starch
- Research on development and application of potato kind protein
- Design and manufacture of equipment for fibre dewatering and drying
- Research on crushing characteristic of material
- Research on sieving and washing result of stuzzy.
- Research on technology parameter for starch slurry concentrating, washing and recovering.
- Research on slurry vacuum dewatering, centrifugal dewatering and press dewatering technology.
- Research on moisture automatic control technology of starch drying.
- Research on automatic weighing and packing technique for high adhesive and high water content material.
- Research for production control technology by PC,PLC.
- Research of CM1070 rasper.
- Research of model 1000 centrifugal sieve.
- Research for professional hydrocyclone of potato kind starch
- Research of XDL-24 vacuum filter

这些研究成果的取得，对精华公司制定新工艺、研制新产品起到了理论上的指导作用。精华淀粉所的成立，更使得精华公司的科研实力得到了加强和巩固。

With the establishment of Jinghua Starch Station of Grain, Oil & Food Engineering Architecture Design Institution, our company has more strength to supply our customers the best quality of Feasibility study, Project recommendation, project design, etc.





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## 精华淀粉所

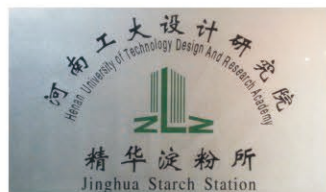
Jinghua starch station

河南工大设计研究院精华淀粉所，是国内唯一具有淀粉行业的甲级设计资质的研究所。主要致力于各种淀粉项目的研发设计，可研报告以及项目建议书的编写等工作。

河南工大设计研究院成立于1982年，集设计，科研，总承包于一体，具有甲级资证设计资格。依托于具有五十年本科办学历史的河南工业大学，以几十个学科专业为后盾，有着扎实过硬的技术资源。在国内同行业中处于领先地位。

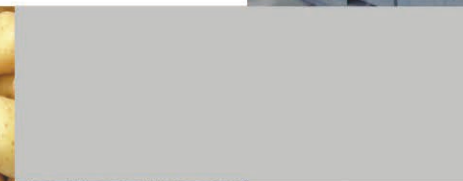
河南工大设计研究院精华淀粉所的成立标志着郑州精华实业有限公司的设计研发能力被充分肯定。精华公司今后将会为广大客户提供更为严谨，科学的工程设计、可研报告、项目建议书等服务。

Zhengzhou Jinghua Starch Station is a branch of Henan University of Technology Design and Research Academy which is mainly engaged in researching and Development of starch project, Feasibility study and compiling of project recommendation, etc. Zhengzhou Grain, Oil & Food Engineering Architecture Design Institution, established in 1982 and attached to Henan University of Technology with fifty-year history of higher education, is an institute of design, scientific research and general contract of engineering. Backed up by the scientific research achievements of scores of specialties, it has strong technology resource. Now, Our company, working together with the two research units, will provide more technology support for supplying best technical service to our customers.



## 产品介绍

Product introduction







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桨叶式清洗机 Paddle cleaning machine

设备特点

- ◆ 整机采用逆流洗涤原理，清洗效果好，可有效除泥、除砂；
- ◆ 合理的进料方式，有利于车间设备的合理布局；
- ◆ 本机运行平稳，物料破损率低，有利于淀粉的提取；
- ◆ 整机结构简单，处理量大，清洗效果好，节能、节水；
- ◆ 本机可广泛用于木薯淀粉加工行业的原理清洗。



Main features

- ◆ The machine adopts principle of countercurrent washing to effectively clean out mud and sand.
- ◆ Rational method of feeding, it's good in distributing equipment in workshop.
- ◆ steady operation with low material damage rate is profitable for extracting starch.
- ◆ The machine structure is simple with large capacity, effective cleaning, energy and water saving.
- ◆ The machine is widely used in cassava starch processing industry.

技术参数 Main Technical Parameters

型 号 Model		DQXJ 2x100	DQXJ 3x128	DQXJ 3x140
桨叶工作直径	Diameter of paddle (mm)	Φ1000	Φ1280	Φ1400
转子转速	Speed of rotor (r/min)	21	21	21
工作段长度	Working length (mm)	6000	6000	6000
电机功率	Power (kW)	5.5x2	7.5x3	7.5x3
处理量	Capacity (t/h)	10-20	20-35	35-50

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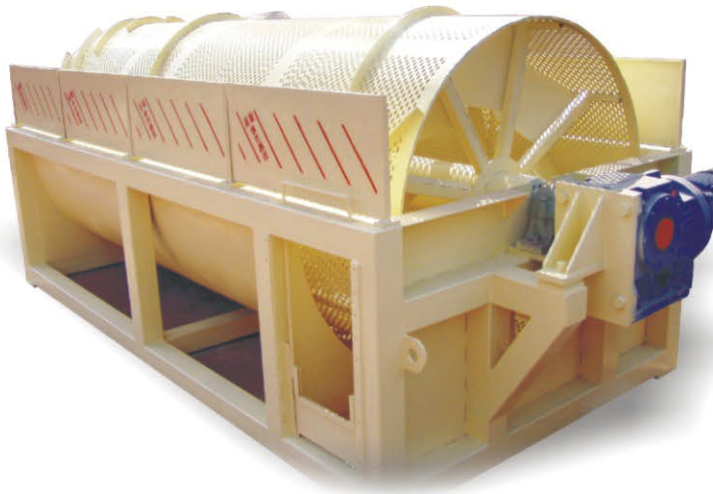
滚筒清洗机 Rotary washer

设备特点

- ◆ 在充分借鉴国内外同行业的先进经验基础上重新优化设计；
- ◆ 整机采用逆流洗涤原理，清洗效果好，可有效除泥、除砂；
- ◆ 采用合理的进料结构，物料破碎率低于1%，更利于淀粉的提取；
- ◆ 整机设计合理，处理量大，外形美观大方，节能、节水；
- ◆ 整机运行平稳，动力配置合理；
- ◆ 滚筒由优质钢板经数控冲床冲孔制作，经久耐用；
- ◆ 整机安装维护方便。

Main features

- ◆ Combining the latest technology and years experience into a whole.
- ◆ Adopting method of countercurrent washing, excellent washing result mud removing and desanding.
- ◆ Reasonable feeding structure. The damage rate of raw material is under 1% to ensure high starch extraction.
- ◆ Compact design, big capacity, energy and water saving.
- ◆ Stable operation and rational motor equipped.
- ◆ Rotating drum is made of high-quality shell plate perforated with numerical control punch for long time.
- ◆ Easy installation and maintenance.



主要技术参数及规格 Main technical parameters

尺寸 Size	转鼓直径	转鼓长度mm	处理量t/h	配套动力kW	外形尺寸(mm)	重量(kg)
型号 Model	Drum dia.	Drum length	Capacity	Power	Dimension	Weight
DQXJ190×450	Φ1905	4520	20~25	18.5	5400x2810x2810	5200
DQXJ190×490	Φ1905	4920	30~35	22	5930x2810x2810	5730

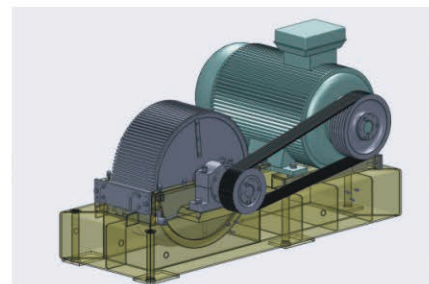
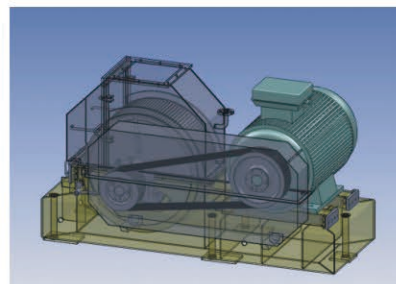
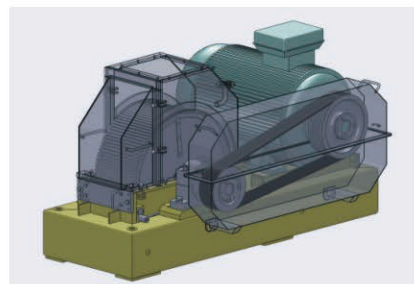




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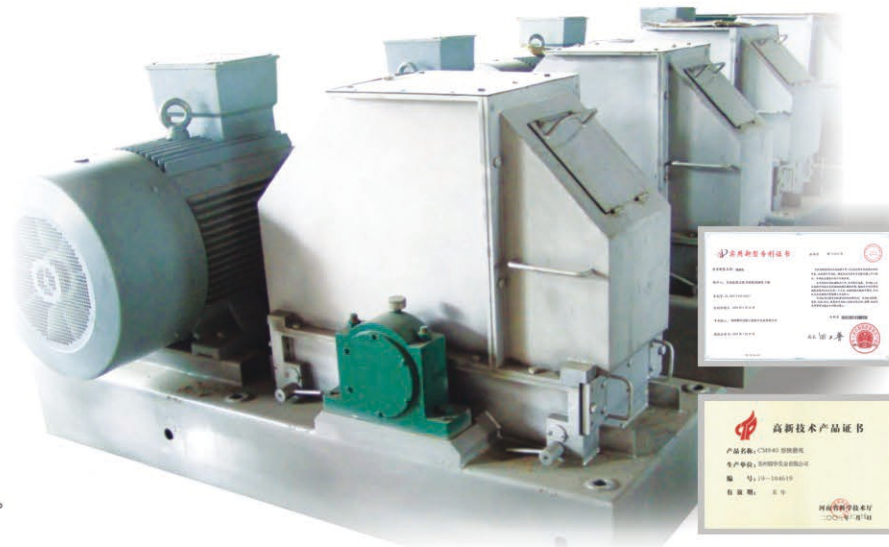
JINGHUA

## 锉磨机 Rasper



### 设备特点

- ◆ 吸收国内外先进技术，结合本公司实际经验开发研制；
- ◆ 产品设计新颖，结构紧凑；
- ◆ 转速高，物料锉磨精细、颗粒均匀，淀粉游离率高，提取率高；
- ◆ 转鼓采用特殊不锈钢锻造而成，其上分布上百个锯片；
- ◆ 独特的转鼓沟槽结构设计，便于快速夹紧锯条组件；
- ◆ 独特的压条结构设计，便于快速方便的更换锯条；
- ◆ 锯条采用特殊材质制作，硬度高，耐磨损；
- ◆ 设计有双向锉磨组合锉刀，具有互换性，破碎率高；
- ◆ 采用独特的筛网快速夹紧装置，便于筛网的拆卸；
- ◆ 采用观察窗设计，便于快速检查锯条的使用情况；
- ◆ 采用瑞典“SKF”轴承和德国进口强力带。
- ◆ 广泛应用于薯类淀粉加工行业，对薯类原料进行锉磨破碎。

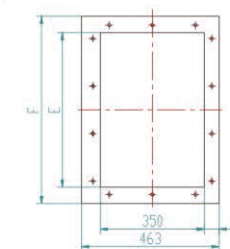


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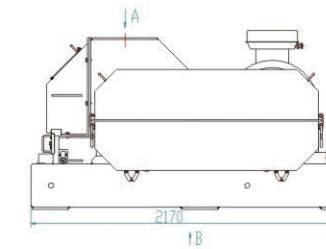
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### Main features

- ◆ Combining the latest technology and years experience into a whole.
- ◆ Fully stainless steel, compact structure and nice design.
- ◆ High rotating speed, even and fine rasping effect, high starch dissociation.
- ◆ Over one hundred of blades distributed on rotary drum.
- ◆ Special slot design to replace the assembly of saw blades quickly.
- ◆ Special splint design to cramp the saw blades.
- ◆ Special material make saw blade high rigidity and durability.
- ◆ Both side of saw blade can be used.
- ◆ Special cramping setting of sieve screen to facilitate demounting of sieve screen.
- ◆ Observation window to inspect running situation of saw blades.
- ◆ SKF bearings from Sweden and excellent belt from Germany are used.
- ◆ Widely used in potato starch and cassava starch processing to crash and rasp raw materials.

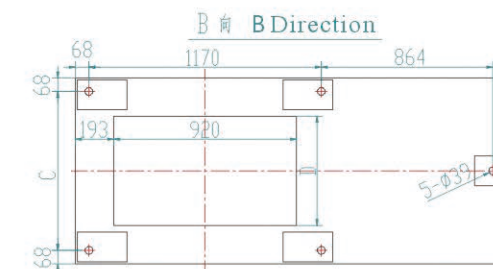


A 向进口法兰  
A Direction inlet flange



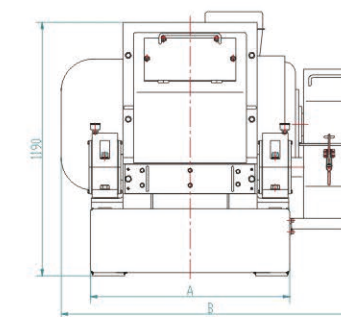
### 设备小样图及外形尺寸 Drawing and dimension

尺寸 Size	A	B	C	D	E	F
型号 Model						
CM840-20	936	1398	800	550	520	630
CM840-30	786	1306	650	400	370	480



### 主要规格及技术参数 Main technical parameters

型 号 Model	CM8435	CM8450	CM1070
类 别 Item			
主轴转速 Main shaft rotating speed ( r/min )	2100	2100	1470
转鼓直径 Drum diameter ( mm )	Φ840	Φ840	Φ1100
转鼓宽度 Drum width ( mm )	350	500	700
电机功率 Motor power ( kW )	110	160	250
原料处理量 Capacity ( t/h )	20~23	30~33	40~45
机器重量 Weight ( kg )	2700	3800	4200
外形尺寸 Dimension ( mm )	2170 × 1306 × 1190	2170 × 1398 × 1190	3000 × 1490 × 1500







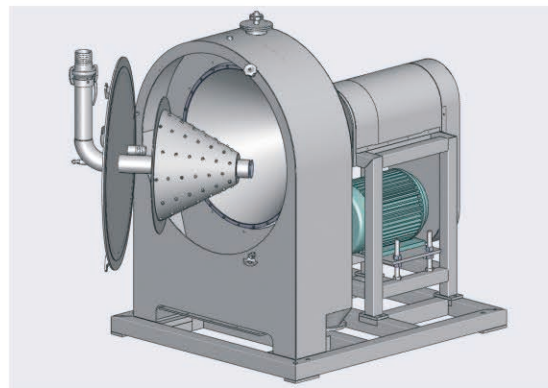
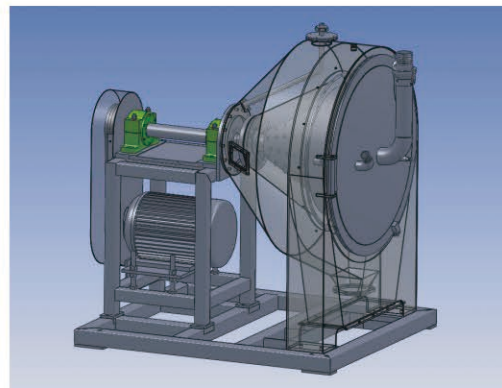
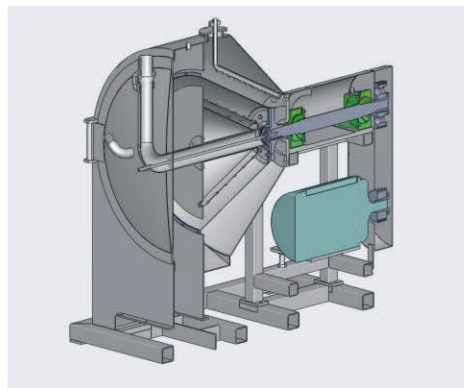
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## 离心筛 Centrifuge sieve

### 设备特点

- ◆ 采用国际先进技术，依托河南工业大学的科研力量和精华公司多年的淀粉工程设计经验；
- ◆ 关键设备部件进口，使用寿命更长，维护成本低；
- ◆ 设备接触物料部分为全不锈钢制作，保证物料不受外界污染；
- ◆ 旋转筛篮由国内权威机构的动平衡精度校准，动平衡指标达到GB1.0级以上；
- ◆ 筛面采用钛钢板激光打孔制作，美观耐用；
- ◆ 便于实现离心筛组全部自动化的设计，轻松在线CIP系统及联锁自动控制；
- ◆ 设备外观采用先进的表面处理工艺，美观大方，耐油耐脏；
- ◆ 喷嘴经过严格的压力与流量对比试验；
- ◆ 整机处理量大、动力配置低、运行稳定、淀粉提取率高、设备易于安装；
- ◆ 广泛应用于大中型淀粉生产企业，可用于薯类、小麦淀粉等的提取。



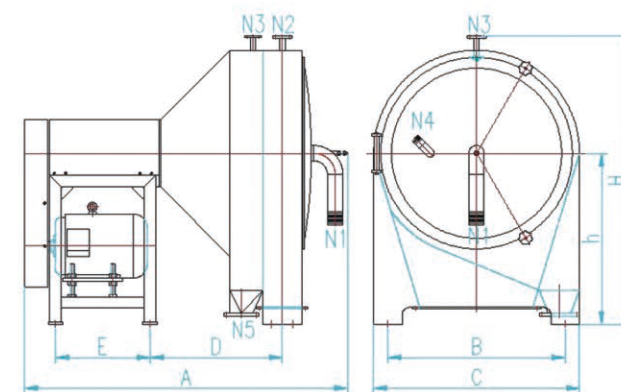
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### Main features

- ◆ Combining the latest technology and years experience into a whole.
- ◆ Key components introduced abroad, long service life, low maintenance cost.
- ◆ All parts contact with material are stainless steel, no material contamination.
- ◆ Sieve basket is calibrated through dynamic equilibrium by domestic authority body.
- ◆ Sieve made from laser perforating on titanium alloy plate.
- ◆ To facilitate the automatic design for Centrifugal sieve group. CIP system and chain automatic control can be easily realized.
- ◆ Advanced surface treatment technology ensuring good looking and resistance of oil and dirt.
- ◆ Nozzles tested by strict examination in pressure and flow rate.
- ◆ Big capacity, low power consumption, stable operation, high starch extraction and easy installation.
- ◆ Widely used for starch extraction in starch processing factory.

管口	N1	N2	N3	N4	N5
DLSW100	Φ108	DN32	DN25	Φ57	DN150
DLSW85	Φ108	DN32	DN25	Φ57	DN125
DLSW80	Φ89	DN25	DN25	Φ45	DN100



型号	A	B	C	D	E	H	h
DLSW100	2256	1240	1440	925	660	2020	1200
DLSW85	2096	1000	1200	800	660	1930	1100
DLSW80	1620	900	1100	740	600	1650	1000

### 主要技术参数 Main technical parameters

型号 Model	筛篮直径mm Basket diameter	主轴转速r/min Main shaft speed	工作方式 Working model	电机功率kW Power	外形尺寸mm Dimension	单机重量t Weight
DLSW100	1000	900~1200	连续	22/30/37	1350×2000×2200	1.8
DLSW85	850	1200~1460	连续	18.5/22/30/37	1200×1900×2100	1.5
DLSW80	800	900~1460	连续	11/15/30	1200×1700×1650	1.2





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旋流器 Hydrocyclone

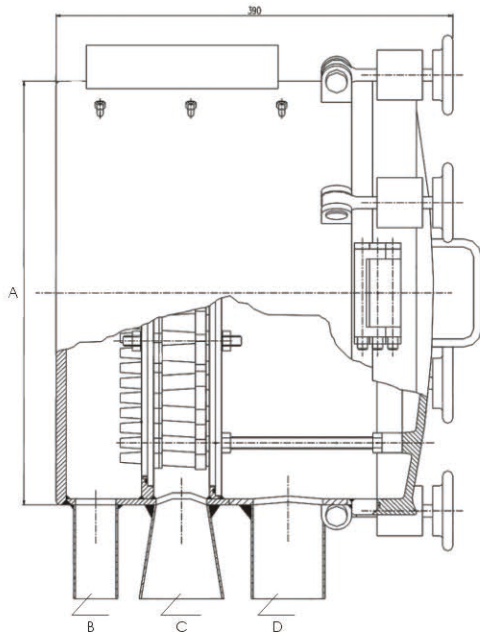
设备特点

- ◆ 设备接触物料部分采用不锈钢制作，保证物料不受侵蚀；
- ◆ 设备外观采用先进的表面处理工艺，美观大方，耐油耐脏；
- ◆ 广泛应用于大中型淀粉生产企业，可用于薯类、小麦淀粉等的浓缩、分离；
- ◆ 整套旋流器组集浓缩、回收、洗涤和细渣分离等多种功能于一体，工艺简捷，产品质量稳定；
- ◆ 旋流管采用增强尼龙材料制作，强度高，耐磨性好，旋流管的结构经过电脑仿真试验，旋分效果好；
- ◆ 对不同的物料特性采用不同的旋流管设计，更利于淀粉的分离；
- ◆ 旋流器组的管路走向经电脑优化设计，简捷合理，美观大方；
- ◆ 独特的旋流器密封设计，使操作更方便快捷。



旋流器总成结构图

Assembly structure chart of hydrocyclone



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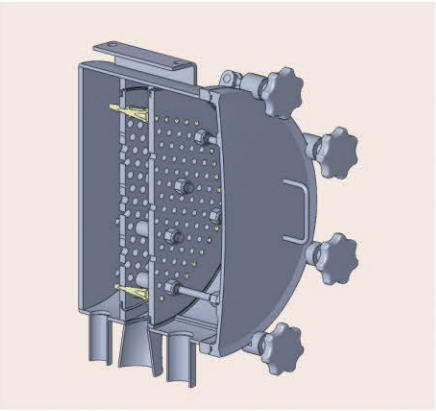
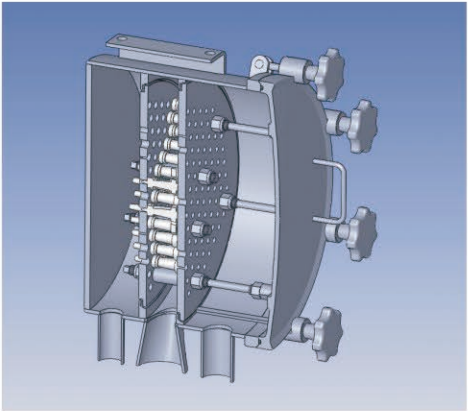
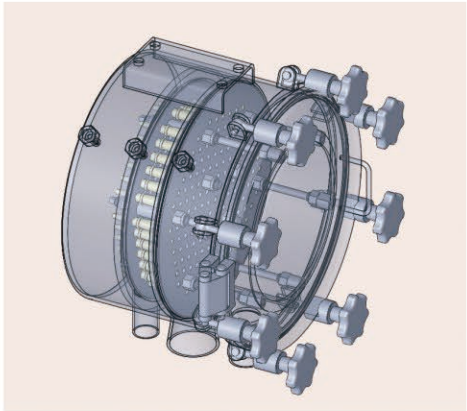
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Main features

- ◆ Fully stainless steel to be sure there is no corrosion.
- ◆ Advanced surface treatment craft. Oil and dirty resisting.
- ◆ Widely used for starch extraction in starch processing plants.
- ◆ It has multifunction of concentration, recovery, washing and separation for hydrocyclone group.
- ◆ Cyclone pipes are made from material of reinforced nylon with high strength, better abrasive resistance and excellent separation result.
- ◆ Hydrocyclone designing is adopted to get better starch separation according to the features of different material.
- ◆ Pipeline of hydrocyclone group passes computer optimization design. Compact and elegant.
- ◆ Special sealing design, friendly operation.

主要技术参数及规格 Main technical parameters

尺寸 Size 型号 Model	A	B	C	D	机组产量：3 ~ 8吨/小时成品淀粉 单级功率：7.5 ~ 30千瓦/级 总重量：0.3吨/级  Group capacity: 3~8t/h starch Power: 7.5~30kW/stage Total weight: 0.3t/stage
XL-362	Φ362	DN32	DN65	DN50	
XL-438	Φ438	DN40	DN80	DN50	
XL-516	Φ516	DN50	DN80	DN65	







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真空吸滤机 Vacuum filter

设备特点

- ◆ 吸收国内外先进技术，结合本公司实际经验开发研制；
- ◆ 与物料接触部分采用不锈钢制作，产品设计新颖，结构紧凑；
- ◆ 采用预挂技术，淀粉脱水效果好；
- ◆ 真空吸滤机转速可变频调整；
- ◆ 采用刮刀卸料，刮刀进退由气动调节，刀片采用高硬度合金制造；
- ◆ 采用气动搅拌，往复频率可调；
- ◆ 连续调节式液位控制；
- ◆ 转动平稳、能耗低、占地面积小、操作方便；
- ◆ 广泛应用于淀粉加工行业，对淀粉乳进行脱水。

Main features

- ◆ Combining the latest technology and years experience into a whole.
- ◆ Fully stainless steel for parts contacting with material, compact structure and nice design
- ◆ Speed of rotating drum can be adjusted according to actual site.
- ◆ Material unloaded through blade, which is made of high rigid alloy and can be adjusted.
- ◆ Stirrer's running frequency can be adjusted.
- ◆ Continuous adjusting for fluid-level control.
- ◆ Low energy consumption, small area, friendly operation and stable running.
- ◆ Widely used for dewatering of suspension in starch processing.

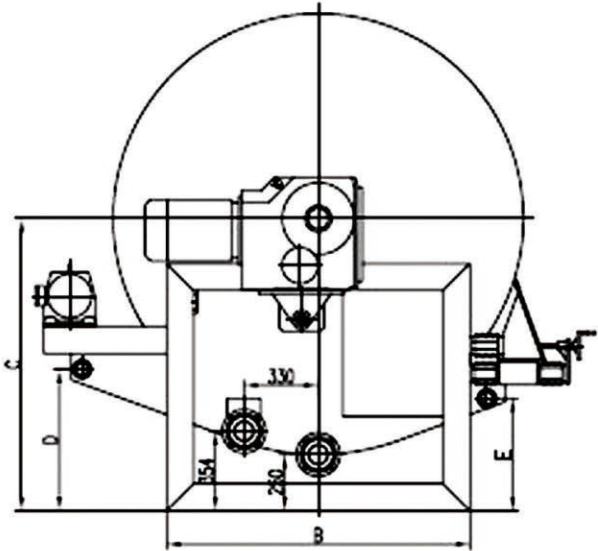
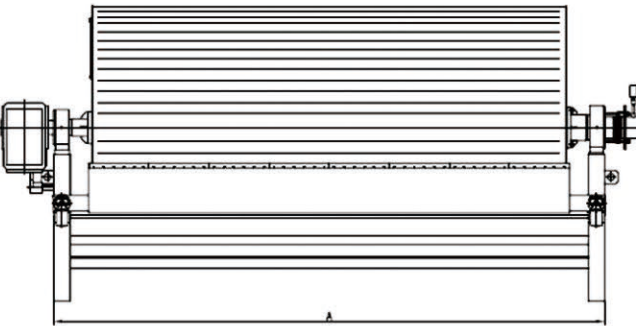


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设备小样图及外形尺寸 Drawing and dimension

尺寸Size 型号Model	A mm	B mm	C mm	D mm	ΦE
XDL12	3620	1330	1300	630	Φ500
XDL20	4120	1350	1300	630	Φ500
XDL24	4120	1900	1480	700	Φ560



具体技术参数 Main technical parameters

型 号 Model 类 别 Item	XDL12	XDL20	XDL24
过滤面积 Filter area (m²)	12	20	24
真空度 Vacuum degree (MPa)	0.04~0.07	0.04~0.07	0.04~0.07
下料干度 Content of solid (%)	≥60	≥60	≥60
进料浓度 Feeding density (Be°)	16~17	16~17	16~17
生产能力 Capacity (t/h)	4	6	8
电机功率 Power (kW)	3	4	4
转鼓转速 Drum rotary speed (r/min)	0~7.9	0~7.9	0~7.9
机器重量 Weight (kg)	3000	4000	5200
外形尺寸 Dimension (mm)	3425x2312x2213	4775 x2312x2213	4785x2630x2600





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## 高效冷却淀粉筛 High efficiency starch sifter

### 设备特点

- ◆ 该设备是精华公司系列拳头产品之一，通过在国内外淀粉行业多年应用证明，该产品是淀粉筛理的最理想设备。具有筛路长、筛理面积大、占地面积小、效率高、噪声低、能耗低、运转平稳、维护简单等优点。
- ◆ 筛格由多层筛格组合而成，各层之间以子扣形式相互搭配，拆装方便并保证了良好的密封性能；各层内加装特殊设计的筛面、推料机构，避免筛面堵塞；吊杆采用新型增强玻璃纤维材质，经久耐用。



A图



B图



C图

### 具体技术参数 Main technical parameters

型号 Model (mm)	仓数 Bin (piece)	筛理面积 Sieving area (m²)	产量 Capacity (t/h)	功率 Power (kW)	重量 Weight (kg)	外形尺寸 Dimension (mm)
GDS4×10×83	4	18.0	10-11	2.2	1520	2310×2200×2400
GDS2×10×100	2	10.0	6-8	1.5	900	2600×1650×2220
GDS2×10×83	2	8.5	5-7	1.5	850	2120×1400×2220
GDS1×10×100	1	6.6	3-4	1.1	750	1610×1610×1800
GDS1×10×83	1	4.2	2.5-3	0.75	600	1400×1400×1800

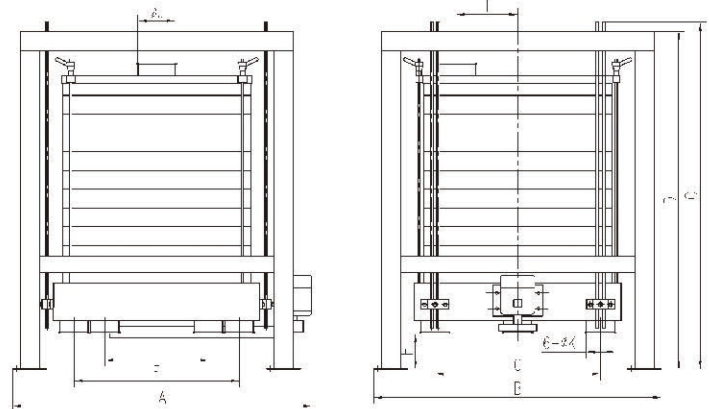
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### Main features

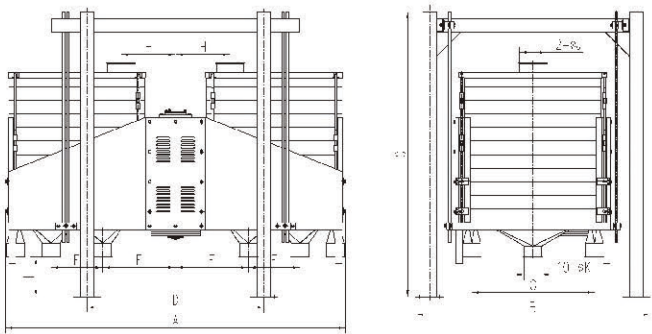
- ◆ Through many years used in starch industry, it has proved the best sifter in starch sifting. It has features of long sieving road, big dressing area, smaller occupying space, high efficiency, big output, lower noise, saving power, stable running and easy maintenance.
- ◆ Sieve body is composed of many layer sieve lattice, the material of sieve case have two kinds: wooden and aluminum alloy. Each layer connects closely as the form of step in the rim to ensure good sealing performance and convenient maintenance. Suspender is made from glass fibre reinforced plastic with durable life.

图a 单仓高效淀粉筛 Single-bin high efficiency sifter



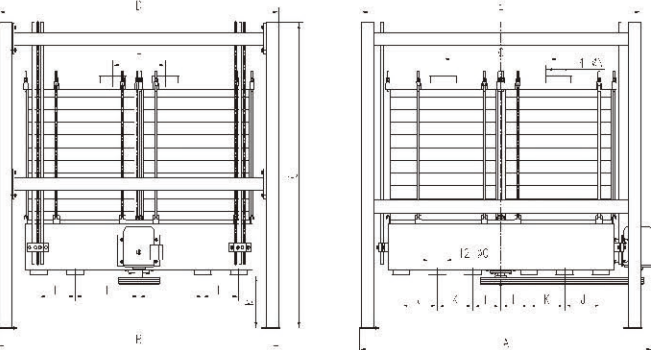
名称	A	B	C	D	E	F	G	H	I	2-ΦJ	10-ΦK
GDS2×10×83	2160	1550	2100	1130	492.5	295	730	400	297	Φ200	Φ130
GDS2×10×100	2500	1720	2100	1300	535	380	900	400	297	Φ200	Φ130

图b GDS系列型双仓高效淀粉筛 Double-bin high efficiency sifter



名称	A	B	C	D	E	F	G	H	I	ΦJ	ΦK
GDS1×10×83	1405	1355	1680	830	710	380	710	190	240	Φ200	Φ150
GDS1×10×100	1580	1530	2030	1080	880	550	880	210	325	Φ200	Φ150

图C 四仓高效淀粉筛 Four-bin high efficiency sifter



名称	A	B	C	D	E	F	G	H	I	J	K	L	M	4-ΦN	12-ΦO
GDS4×10×83	2300	2220	2410	2260	2200	414	304	285	500	285	285	220	420	Φ200	Φ130





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全封闭式淀粉筛 High efficiency starch sifter

设备特点

- ◆ 金属筛箱，内置双面贴塑木质筛格，铝合金筛芯。
- ◆ 结构合理，性能可靠，操作维修方便。
- ◆ 压紧装置简单可靠，不窜漏。
- ◆ 高转速，小回转半径，筛粉效率高。
- ◆ 多四个外通道，筛路配置更加灵活，增加筛理面积。
- ◆ 筛箱悬挂于机架上，安装方便：运转平稳。

Main features

- ◆ Metallic cabinet with plastic wood sieves inside it. and aluminUm inner frame iS of module making.
- ◆ Rational construction. reliable performance and easy operation.
- ◆ Absolutely leak—proof sieve stack.
- ◆ High rotate speed. small gyro—radius and high capacity
- ◆ Add another four outer path to obtain more flexi ble sieve arrangement and more sifting area.
- ◆ Easy installation. Smooth operation

具体技术参数 Main technical parameters

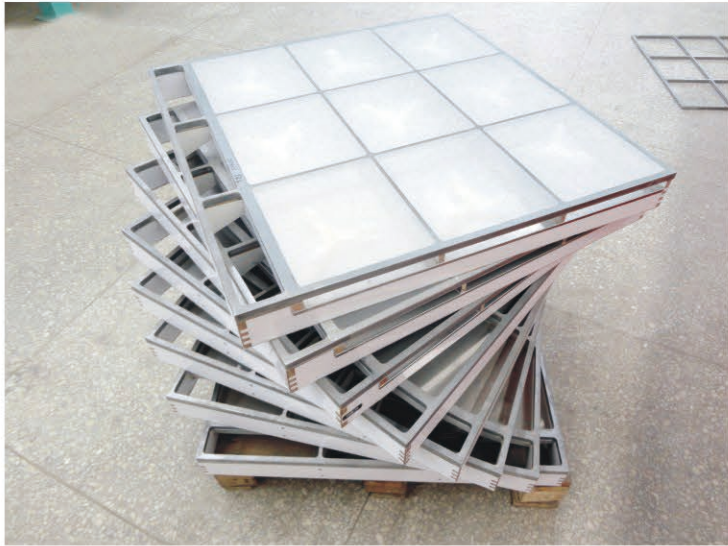
型号 Model	项目 Item	仓数(个) Number of compartments	筛格数(个) Number of sieves	筛理面积 Sifting area m²	主轴转速 Speed Rpm	产量(t/h) Capacity	回转直径(mm) Diameter	电机功率(kW) Power	重量(kg) Weight	外形尺寸(mm) Dimension
2×10×100		2	10-12	13.5	255	8-10	Φ45-55	2.2	1200-1500	2530x1717x2270
2×10×83		2	8-12	255	255	5-7	Φ45-55	1.5	730-815	2120x1440x2120
MBDC-1×10×83		4.5	2-3			2-3	Φ40	0.75	470	1380x1280x1910
MBDC-1×10×100		6.4	3-4			3-4	Φ40	1.5	570	1620x1620x1995
MBDC-1×10×120		7.6	4-5			4-5	Φ40	1.5		1890x1890x2400

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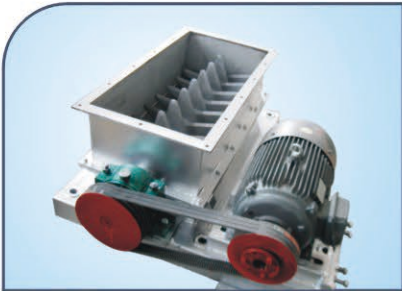
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## 破碎机 Crusher

### 设备特点

- ◆ 综合国内外同种设备的性能及本公司多年的使用经验，自主研发；
- ◆ 本机去繁就简，设计新颖，结构紧凑，拆卸方便，维护成本低；
- ◆ 整机体积小，处理量大，能耗低，运行平稳；
- ◆ 避免物料的重复切削，提高有效切削能力；
- ◆ 刀片经特殊处理，经久耐用；
- ◆ 与物料接触部分为全不锈钢制作，保证物料不受外界污染；
- ◆ 设备外观采用先进的表面处理工艺，美观大方，耐油耐蚀耐脏；
- ◆ 本机可广泛用于薯类加工方面的大物块的破碎。



### Main features

- ◆ In dependent research and development, integrate with the same kind so fequipment performance from local and abroad manufactures, and combined with our many years using experience.
- ◆ Newly designed with compact structure, easy disassembly and low maintenance cost.
- ◆ Small volumes with large capacity, medium speed, low energy consumption and steady operation.
- ◆ To avoid duplication of material cutting and improve cutting ability.Blade is specially made and is durable.
- ◆ Parts contact with materials are made of stainless steel, to ensure materials not contaminated.
- ◆ Advanced surface treatment technology is used for ensuring equipment good looking and resistance of oil,corrosionanddirt.
- ◆ The machine is widely used for cracking of big material.

### 技术参数 Main Technical Parameters

型号 Model	转子工作直径 (mm) Diameter of rotor	转子转速 (r/min) Speed of Rotor	刀片数量 (片) Blade numbers	转子长度 (mm) Rotor length	电机功率 (kW) Power	外形尺寸 (mm) Dimension	单机重量 (kg) Weight	处理量 (t/h) Capacity
PS50-76	Φ480	1200	18	760	15	1250x1300x600	750	30
PS50-100	Φ480	1200	24	1000	22	1490x1300x600	900	50

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## 细渣筛 Fine fiber sieve

### 设备特点

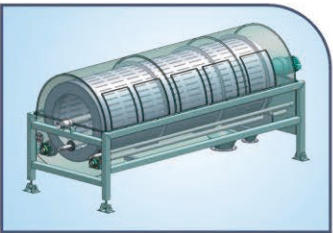
- ◆ 接触物料部分全部采用不锈钢制作，保证物料不受外界污染；
- ◆ 筛面采用不锈钢编织网或尼龙编织网制作，美观耐用；
- ◆ 设备外观采用先进的表面处理工艺，美观大方，耐油耐脏；
- ◆ 整机处理量大，动力配置低，运行稳定、易于安装与维护；
- ◆ 本机可广泛用于淀粉提取、细渣分离等。

### Main features

- ◆ All parts contact with material are stainless, no material corrosion.
- ◆ Sieve made of stainless or nylon .
- ◆ Advanced surface treatment technology ensuring it good looking and resistance of oil and dirty .
- ◆ Big capacity, low power consumption, stable operation and high starch extraction.
- ◆ The machine is widely used in starch processing.

### 技术参数 Main Technical Parameters

型 号 Model		YTS100
滚筒直径	Cage diameter ( mm )	1000
滚筒长度	length ( mm )	3000
电机功率	Power ( kW )	1.1
外形尺寸	Dimension ( mm )	4130 × 1380 × 1610
筛网配置	Mesh	根据物料性能不同规格型号不同 Fitted according to material
单机重量	Weight ( kg )	800
处理量	Capacity ( m³/h )	20~30







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## 薯渣脱水机 Fiber Dehydrator

### 设备特点

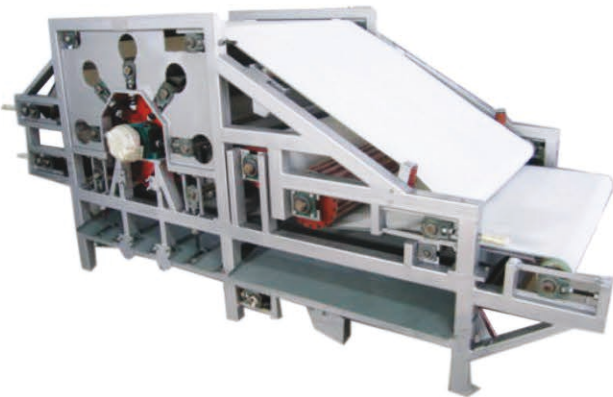
- ◆ 依托河南工业大学的科研力量，由精华公司自主研制开发出来的；
- ◆ 楔形进料器可以保证物料均布于下滤带上，布料厚度可调可控；
- ◆ 脱水滚系采用优质无缝管外包优质耐磨橡胶，运行可靠性强，使用寿命长；
- ◆ 滤带采用优质高强度聚脂尼龙制成，可根据物料的特性选择不同的规格的滤带；
- ◆ 中心滚筒壁采用网孔结构，可以保证物料在受到压榨时压榨出的水及时排出；
- ◆ 滤带压紧装置保证物料在受到外力挤压时不向滤带两侧运动，保证物料的脱水效果；
- ◆ 滤带清洗装置实行在线清洗，保证生产的连续性。

### Main features

- ◆ Product is independently developed by our company, with the scientific research efforts of Henan University of Technology.
- ◆ Wedge-shaped feeder can ensure materials evenly distributed on the filtrating strap with thickness being adjustable.
- ◆ Behydrated rolling system made seamless tube and wrapped by high quality wear-resistant rubber, it's reliable with long service life.
- ◆ Filtrating belt is made of high quality polyester nylon, you can choose different standards of filtrating strap according to the materials.
- ◆ Center cylinder adopted mesh structure, it can guarantee water discharged quickly when materials squeezed.
- ◆ Filtrating belt press device keeps material not move to side when extruded to ensure dewatering effect.
- ◆ Cleaning device can clean belt on line to ensure continuity of production.

### 技术参数 Main Technical Parameters

规格型号 Model	主机功率 Power	滤带宽度 The width of Filtrating strap	有效滤带宽度 The valid width of filtrating strap	滤带有效速度 The speed of filtrating strap	滤带冲洗水压力 The flushing hydraulic pressure of the filtrating strap	脱水后滤饼厚度 The thickness of the dehydrated potato cake	脱水后滤饼含水量 The water content quantum of the dehydrated potato cake	物料处理量（脱水前） Material processing quantum (Before dehydrated)	主机外形尺寸(mm) Dimension
SZTS120	3.0kW	1200mm	1000mm	0~0.13m/s	0.3~0.5MPa	6~12mm	≤70%	≥5000kg/h	4900x2800x2110
SZTS150	4.0kW	1500mm	1300mm	0~0.13m/s	0.3~0.5MPa	6~12mm	≤70%	≥7000kg/h	5000x3100x2110
SZTS180	5.5kW	1800mm	1500mm	0~0.13m/s	0.3~0.5MPa	6~12mm	≤70%	≥9000kg/h	5000x3450x2110



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## 碟片分离机 Disc separator

### 系统特点

- ◆ 主要用于在淀粉分离和洗涤工序中对粗淀粉乳进行淀粉（重相）和蛋白（
- ◆ 亦可用于与本机功能相适应的医药、化工、食品行业；
- ◆ 设备采用全不锈钢结构；
- ◆ 高转速、高分离因数、低能耗、低水耗。

### Main features

- ◆ Used to remove protein, gum from starch slurry.
- ◆ Fully stainless steel.
- ◆ Speed, vibration display. Convenient operation.
- ◆ Continuous running.
- ◆ High rotating speed, high separating factor.
- ◆ Low power and water consumption.



### 技术参数 Main Technical Parameters

型 号 Model	DPF445	DPF500	DPF550	DPF800
处理量 (m <sup>3</sup> /h) Capacity	35	45	75	130
材质 Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
转鼓内径 Bowl diameter(mm)	445	470	550	810
转速(r/min) Rotating speed	5100	5100	4500	3000
分离因数 Separating factor	6480	6900	6230	4950
功率 Power (KW/stage)	37	37	55	110
碟片数 Disc number (piece)	73-75	78	125	130
喷嘴数 Nozzle number (piece)	10	10	12	20
重量 Weight(kg)	1500	1800	2100	4200





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## 木薯去皮机 Cassava peeling machine

### 设备特点

- ◆ 设备由机架、上盖、设置在机架壳体内部的砂辊组、推料螺旋、冲洗装置以及用于驱动砂辊组和推料螺旋的动力装置组成；
- ◆ 根据物料及表皮不同，可调节推料螺旋转速，改变物料在砂辊上的搓擦时间，使其去皮效果达到预期效果。该结构能连续对物料进行去皮工作，去皮效率高，效果好，有利于提高成品的质量；
- ◆ 该去皮机设计科学合理、结构简单紧凑，去皮效果好，生产效率高，且可保证产品质量。

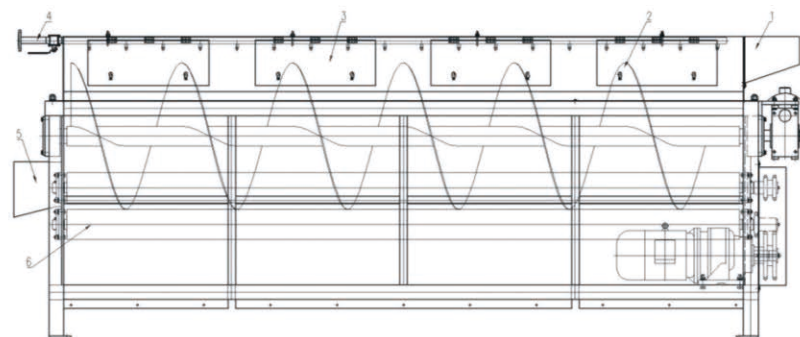
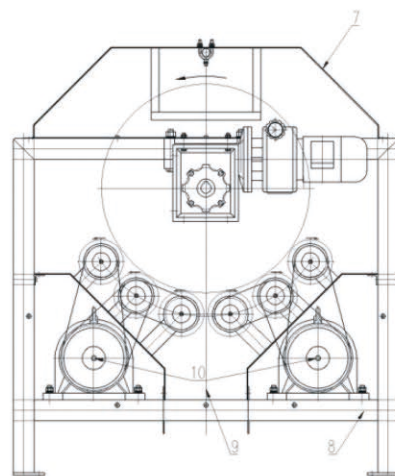
### Features

- ◆ Cassava peeling machine is composed of equipment rack, upper cover, grinding roller sets in the shell, pushing screw, flushing devices, powerplants for grinding roller sets and pushing screw.
- ◆ According to the difference in material or skin, revolving speed of pushing screw is adjustable, which changes material friction time on grinding roller to achieve supposed peeling effect. This cassava peeling machine could continuously peel cassava, which creats better peeling efficiency, better peeling effect, and better quality of final product.
- ◆ This cassava peeling machine is reasonably designed, with simple & compact structure, great peeling effect, high production efficiency, which could efficiently promote product quality.

### 附图说明

图1、2为砂辊式去皮机结构示意图。

图中：1-进料口，2-推料螺旋，3-观察窗，4-冲洗装置，5-出料口，6-砂辊组，7-上盖，8-机架，9-出杂口，10-动力装置。



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## 马铃薯生全粉加工 Cassava peeling machine

### 设备特点

- ◆ 马铃薯主食化面粉是以马铃薯为原料，不经过蒸煮等任何熟化工序，无添加、无营养流失的纯天然马铃薯粉。
- ◆ 马铃薯粉采用低温干燥或真空干燥脱水工艺，对马铃薯进行脱水制粉，细胞破裂少，最大程度保留马铃薯的营养价值及风味，同时保留了新鲜马铃薯的固有营养价值和食用品质，价格只有全粉的1/3左右。

### 生产工艺描述

- ◆ 马铃薯经过多道清理、去石后，干净的马铃薯通过精细去皮机脱皮，同时保证马铃薯的完整性，减少损耗。预处理后，合格的马铃薯进行切条、护色处理。
- ◆ 采用多层带式干燥机，利用低温热风脱水技术，对薯条干燥处理，实现即达到制粉水分要求又不熟化变色的目的。
- ◆ 利用多功能制粉设备研磨制粉，得到的粗粉经过筛选，得到合格的精制生天然原味全粉。







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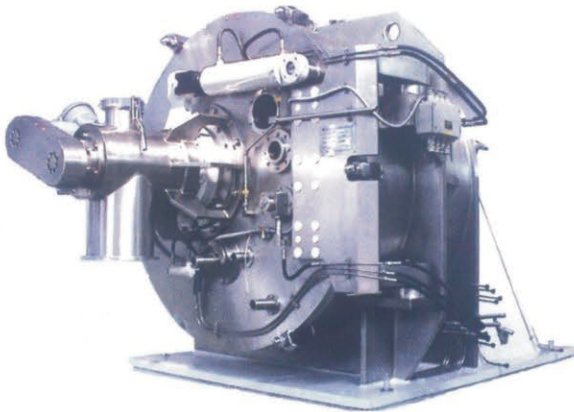
## 刮刀离心机 Peeler centrifuge

### 设备特点

- ◆ 系列刮刀是用于淀粉脱水的设备。
- ◆ 是水平，自动控制和刮刀卸料和虹吸过滤的。
- ◆ 利用离心力和虹吸力加强脱水效果。
- ◆ 可以缩短分离时间，并实现高产量和低水分含量的效果。
- ◆ 按照药品规范设计的封闭和抗腐蚀不锈钢结构。适用于高清洁要求的行业，如药品，食品行业等。

### Main features

- ◆ GK,GKH series of centrifuge is a new type of starch dehydration machine. GK,GKH
- ◆ Which is horizontal, automatically controlled, and scraper-unloaded and siphon filtered.
- ◆ Use of the dual effects of centrifugal force and siphoned force to enhance the filtering thrust.
- ◆ It can shorten separating time and gain higher production and low moisture in residue.
- ◆ Sealed and corrosion resisting stainless steel structure to be up to the standard of GMP. Used in the high cleaning required industries, such as pharmaceutical, foodstuff and so on.



### 技术参数 Main Technical Parameters

型 号 Model		GKH800N	GKH1250(EW)	GKH1600N
过滤面积	Filter area(M <sup>2</sup> )	1.13	2.36	4.98
最大载料量	Maximum load(kg)	150	450	996
最大容积	Maximum volume(L)	100	355	830
材质	Material	Stainless steel	Stainless steel	Stainless steel
转鼓直径	Bowl diameter (mm)	800	1250	1600
转鼓长度	Bowl length (mm)	450	600	1000
转鼓转速	Bowl' s rotating speed (r/min)	1550	1200	950
分离因素	Separating factor (Fr)	1070	1006	808
尺寸	Overall dimension (mm)	2030x1960x1530	2870x2470x1955	4050x2745x2295
重量	Weight (kg)	5500	11150	16550
功率	Power (kw)	45	90	132

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## 电控自控系统 Electrical and automatic control system

### 系统特点

电气控制系统主要由MCC电机控制柜、OCC电机操作控制中心柜、LCB现场电气操作控制箱、工艺模拟控制屏和工业控制计算机等组成。电气柜全部采用全钢喷塑壳体，具有良好的接地和电气隔离，符合IEC国际标准。

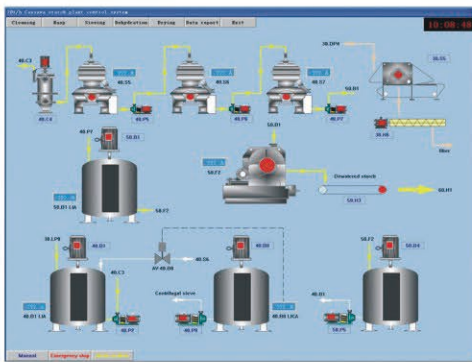
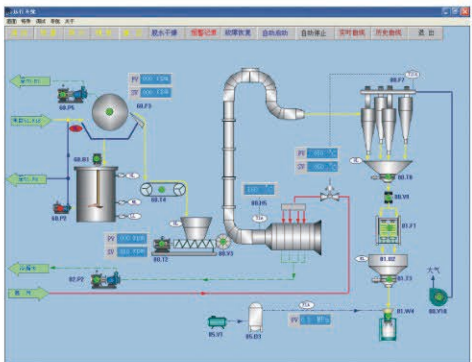
工业控制计算机可以协调系统中智能仪表、PLC、调速器等控制组成环节的数据通讯，具有多幅动态图形显示。既可以动态显示工艺流程图，又可以显示设备转速、电流、压力、流量、密度、温度、液位等实时工艺参数。并实时控制和监测设备的运行，实现设备故障报警和记录。还可以对生产工艺数据进行记录、存储，并产生各种工艺生产报告。本机为生产的监控、操作和管理中枢，采用具有极高的防磁、防震动、防粉尘、抗干扰能力的工业控制计算机，无故障率可达十万小时以上，可长年连续工作使用。



### Main features

Electrical control system consists of industrial control computer and MCC, OCC, LCB etc, cupboards. Cupboards are made of Plastic spraying on steel sheet with functions of good earthing and electric insulation, which complies with IEC standard.

Computer control system uses industrial control computer to coordinate data communication of intelligent meters, PLC, speed adjustors and display in motion graphics. It can display both technological flow chart and parameters of equipment such as revolution, pressure, electric current, temperature etc. It can monitor and control running of equipment, realize alarm and recording of failures, record and store production technological data and provide relative reports. It can work yearly with 100000h of no failure rate.







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气流干燥机 Airflow dryer

设备特点

- ◆ 精华公司设计生产的气流干燥系统，充分考虑了气流的紊流运动、旋风分离和热交换等各项因素，从而使各个环节的工艺配置和技术参数，如换热器的配置、进气温度和尾气温度的控制、扬升机的位置和角度、刹克龙的变径设计等都有着一定的理论依据。
- ◆ 整机与物料接触部分采用不锈钢制造。
- ◆ 在产品制作方面，诸如设备的三维仿真分析、下料等各制作环节都采用计算机控制，大大提高了产品的质量和制作精度。
- ◆ 国内首家整个系统采用自动控制，通过对进料水分或进出气温差的测定，自动调整整个干燥系统的进料量和进汽量，从而保证产品的水分的稳定，因而该设备不仅适用于各种薯类淀粉的干燥，而且也适用于玉米、小麦等淀粉的干燥。

Main features

- ◆ When designed air flow drying system, we fully considered each factor of turbulent flow,cyclone separating and heat exchange etc., so that each collocation and parameter have definite theory basis, such as heat exchange's collocation, temperature control of inlet air and outlet air, diameter change of cyclone pipe etc.
- ◆ Part contact with starch is made of stainless steel.
- ◆ In aspect of product manufacturing, each manufacturing sectors such as the device choosing,processing, jointing and welding are all adopted computer control, so the product quality and precision are greatly improved.
- ◆ Through measuring on feeding material moisture, or temperature difference between inlet and outlet,the feeding quantity and inlet steam volume can be automatic adjusted, thus the water content of product could reach the technology requirement. This kind airflow dryer is not only suitable to all kinds potato kinds starch to be dried, but also adaptable to the drying of corn starch and wheat starch.

技术参数 Main Technical Parameters

	型号	Model	DG-3.2	DG-4.0	DG-6.0	DG-10.0
产量	Output	( t/h )	3.2	4.0	6.0	10.0
装机容量	Power capacity	( kW )	97	139	166	269
湿淀粉含水率	Moisture content in wet starch	( % )	≤40	≤40	≤40	≤40
商品淀粉含水率	Moisture content in dry starch	( % )	12-20	12-20	12-20	12-20



主要工程业绩

Main projects show







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### 国际项目

### ABROAD STARCH PROJECT

## 成套项目

- ◆ 印度尼西亚PT.Agri木薯淀粉项目（40t/h）
- ◆ 尼日利亚木薯全粉项目（1t/h）
- ◆ 尼日利亚木薯淀粉项目（10t/h）
- ◆ 韩国马铃薯淀粉项目（1t/h）
- ◆ 加蓬 Y.smardar木薯淀粉厂（20t/h）
- ◆ 印度尼西亚 PT.DUNGO REKSA木薯淀粉厂（12t/h）
- ◆ 印度尼西亚 PT.PANCASONA JAYAPRATAMA木薯淀粉厂（12t/h）
- ◆ 印度 SUKHJIT STARCH & CHEMICALS LTD玉米淀粉厂（300t/d）
- ◆ 尼日利亚 GREEN TECH INDUSTRY CO.,LTD 木薯淀粉厂（12t/h）
- ◆ 印度尼西亚 PT.HUTAHAEAN 木薯淀粉厂（20t/h）
- ◆ 印度尼西亚 PT.INA BEESTEL 木薯淀粉厂（12t/h）

## Representative Project

- ◆ PT.Agri Cassava Makmur
- ◆ Ocean Trans& Trading International Ltd.
- ◆ Promise Point General Trading Ltd.
- ◆ Seo An Co., Ltd.
- ◆ Gabon Y.smardar Cassava Starch Factory
- ◆ Indonesia PT.Dungo Rekza Cassava Starch Factory
- ◆ Indonesia PT.Pancasona Jayapratama Cassava Starch Factory
- ◆ India SUKHJIT STARCH & CHEMICALS LTD corn starch factory 300T/D
- ◆ Nigeria GREEN TECH INDUSTRY CO.,LTD cassava starch factory 12T/H
- ◆ Indonesia PT.HUTAHAEAN cassava starch factory 20T/H
- ◆ Indonesia PT.INA BEESTEL cassava starch factory 12T/H



## 加工能力 Manufacturing Workshop

精华公司近几年所承担的各种工程项目，除一些通用设备和电机、水泵之外，其余设备均为公司自己生产。精华公司是国内淀粉行业的大型机械设备生产企业，下属的加工厂，拥有种类齐全的各类加工设备。

公司还建立了科学严谨的质量保证体系，拥有一流的、完善的试验、检测计量等手段，这些都为公司生产高质量的大型淀粉加工设备提供了可靠的硬件保证。

ZZJH is also a large scale manufacturing enterprise in starch industry in China, which has manufacturing workshop for starch equipment. All engineering projects ZZJH undertaken in recent years, besides some general equipment and motors, pumps, all equipments were manufactured by ourselves. Meanwhile, ZZJH can carry on 4 to 5 engineering projects at the same time. ZZJH has built scientific and exact quality guarantee system with possessed first-grade and perfect testing, inspecting, supervising and measuring methods. All these provide reliable and good guarantee for producing large scale starch processing equipment with high quality.



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