



电话/Tel: +86 0412-8729305 +86 18604209678

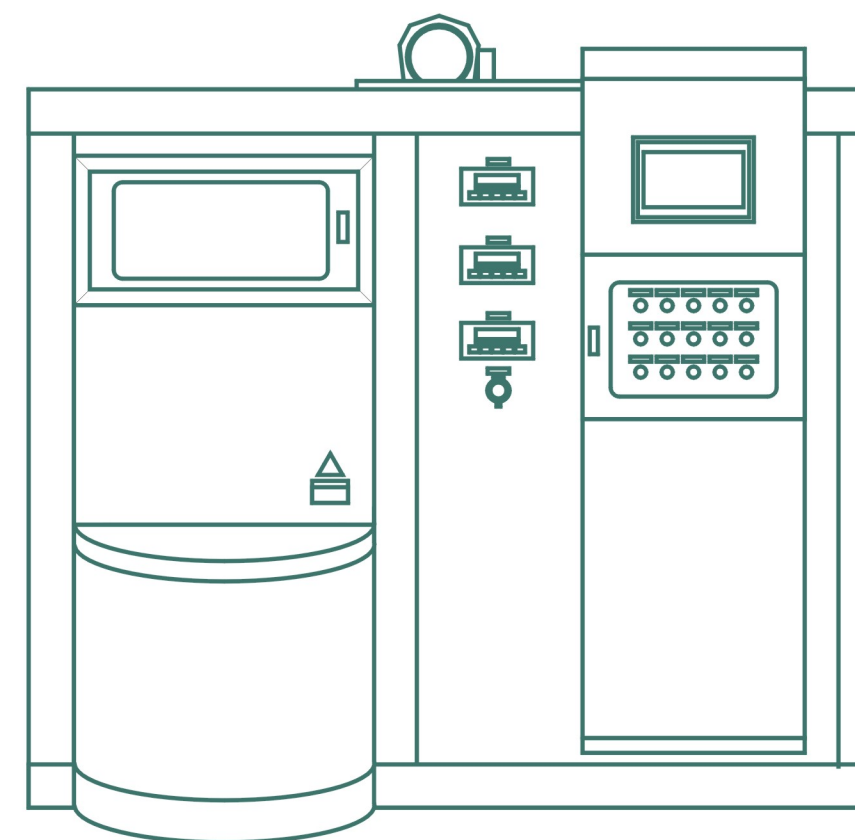
邮箱/E-mail: jsbtech@163.com

Whatsapp:+86-13841937486

网址/Web: www.jusuobao.net

地址/Add: 辽宁省鞍山市达道湾经济开发区钢西路202号

No.202 Angang West Road,Dadaowan Economic Development Zone,
Anshan City Liaoning Province,China



智能外加剂合成设备
Smart admixture synthesis equipment

目 录 List

企业简介

关于我们 About US	2
公司理念 Company Philosophy	4
技术优势 Technical advantages	5

产品介绍

■ 外加剂合成设备	
聚羧酸减水剂生产线总览 Overview Of Polycarboxylate Superplasticizer (PCE) Production System	6
GDPC-5D 电控型母液合成模块 GDPC-5D Electronic Control Type PCE Liquid Production Module	8
GDPC-5C 触控型母液合成模块 GDPC-5C PLC Control Type PCE Liquid Production Module	12
GDNT 原料中和罐 GDNT Raw Material Neutralization Tank	16
GDFP 减水剂复配模块 GDFP PCE Liquid Compounding Module	18
丙烯酸水浴装置 Acrylic Acid Melting Device	20
■ 外加剂产品	
GDPC-100 高性能聚羧酸减水剂母液 GDPC-100 High Performance PCE Mother Liquid	22
GDSR-100 聚羧酸型保坍剂 GDSR-100 PCE Slump Retention Agent	24



聚羧宝科技有限公司成立于2014年，公司致力于先进聚羧酸外加剂合成设备的研发、制造及外加剂的生产。通过与日本聚羧酸技术先进企业合作，开发了国内领先的聚羧酸减水剂常温合成技术。该技术采用全封闭式生产，实现三废零排放，符合国家倡导的环保、节能、绿色生产的理念；用低温催化剂取代传统技术中锅炉加热设备，常温即可反应，与以往的减水剂生产设备相比，性能更优越，投资、能耗、人力成本大大降低，受到国内外客户的青睐。



Jusuobao Technology Co., Ltd. was established in 2014, the company committed to advanced polycarboxylate based admixture synthesis equipment research, development and admixture production. Through cooperation with the Japanese polycarboxylate superplasticizer technology leader, developed domestic leading technology of PCE synthesis at room temperature. The technology adopt full-obtured production, to achieve zero emissions of three industrial wastes waste water, waste gas, waste residue, in line with the concept of environmental protection; Low-temperature catalyst to replace the boiler heating equipment. The module is better performance, investment, energy consumption and labor costs have been reduced greatly compared with common equipment, and welcomed by domestic and foreign customers.



用产品为用户创造幸福，用企业为员工创造幸福，实现与社会和谐发展

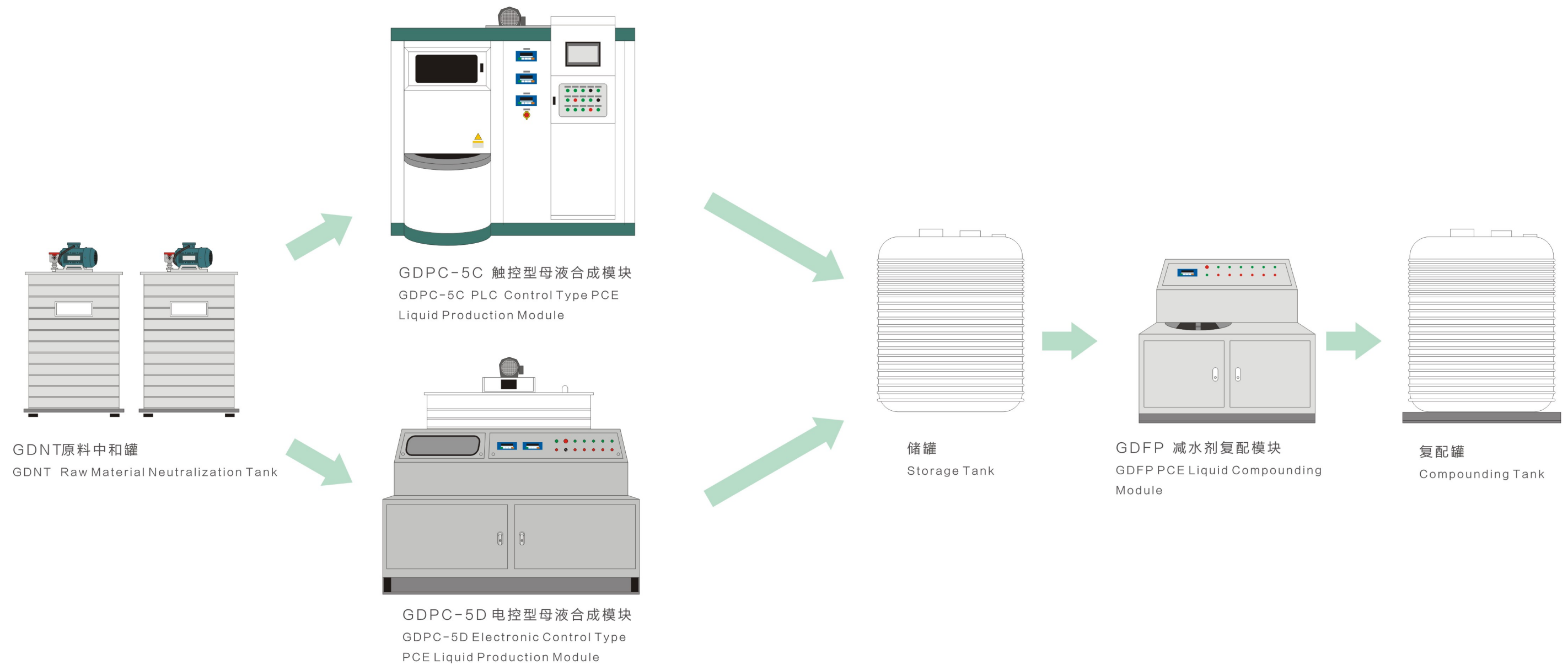
Creating Happiness For Users by Products
 Creating Happiness For Employees by Enterprise
 And Achieving Harmonious Development With Society





聚羧酸减水剂生产线总览

Overview Of Polycarboxylate Superplasticizer (PCE) Production System



GDPC-5D 电控型母液合成模块

GDPC-5D Electronic Control Type PCE Liquid Production Module

产品简介 | Product Introduction



GDPC-5D 型电控聚羧酸母液生产模块是聚羧宝科技有限公司推出的第一代面向减水剂母液厂及商混站设计的全自动生产设备。该设备结构紧凑、移动方便，操作简单、安全、可靠，拥有完善的计量系统、搅拌系统、供料系统、操作控制系统、滴加系统。搅拌效果好，生产效率高，易于维护，是一款非常实用的聚羧酸减水剂生产设备。



智能外加剂合成设备

08

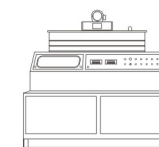
外加剂合成设备

GDPC-5D

GDPC-5D is the first generation of PCE production module present by JSB technology Co., Ltd. Design for PCE mother liquid plant and compound plant. The equipment has compact structure, easy to move and using, safe and reliable, with separate metering system, mixing system, feeding system, controlling system and titration system. Stirring effect is good while production efficiency is high, easy to maintain, it is a very practical PCE mother liquid production equipment.

产品特点 | Features

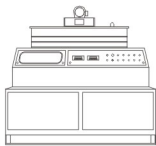
- **低位投料：**采用低位投料方式，无需搭建高台，操作人员在地面既可投料，减轻人员的劳动强度
- **占地空间小：**占地面积仅6平米，高度仅2.35米，降低了对厂房高度的要求
- **自带高精度传感器：**设备底部装有称重传感器，原料单独计量，投料精确快速
- **搅拌系统选用蜗杆卧式减速机，**结构先进、运行平稳，316L不锈钢材质加厚搅拌桨，搅拌效率高，噪音小。
- **设备摆放灵活：**整机重量仅为1.5吨，一辆叉车既可搬运，无需额外拆卸安装,设备落地既可生产。
- **滴加设备先进：**采用制药行业使用的蠕动泵，操作简单，稳定，滴加更精准。
- **合成反应快速：**生产5吨聚羧酸母液仅需4小时，可连续生产。
- **生产过程环保：**整个过程无任何噪声和环境污染。
- **模块简单易学：**操作简单，一人即可独立完成生产，大大节省人力成本。
- **出口包装规格：**专业出口用熏蒸木箱，包装完可装进40尺高柜



09

smart admixture synthesis equipment

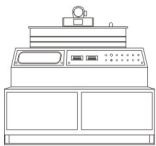
- **Lower feeding inlet:** no need for high-platform, and operating on the ground ,reducing working intensity
- **Small space occupation:** covers an area of only 6 m², 2.35m height, reducing the height requirements of plant
- **In-built high-precision sensor:** the module equipped with load cells at the bottom of platform, materials are measured separately, accurate and fast feeding will be achieved.
- **Equipped with reducer:** mixing system select with worm horizontal reducer, advanced structure, smooth operation, 316L stainless steel thicker mixing paddle bring efficiency and low noise.
- **Easy moving:** the whole weight is only 1.5 tons, can be carried by a forklift easily, no need for additional installation, and production is available as soon as placing equipment.
- **Advanced titration equipment:** the module equipped with peristaltic pump which widely?used in the pharmaceutical industry, with stable and accurate trait
- **Short synthetic process time:** 5 tons of PCE mother liquid just need 4 hours, and can be continuously produced.
- **Process is environment-friendly:** little noise and no pollution.
- **Easy to learn:** simple operation, just one person can complete production independently, significant savings in labor costs.
- **Export packaging specifications:** professional fumigation wooden box, can be packed into a 40``high cabinet after packaging



设备参数

Technical Parameter

型号 Model	GDPC-5D	
生产率（吨/批次） Productivity (ton/lot)	5	
产能 Capacity(L/4 hour)	5000	
合成罐 Main Reaction Tank	最大称容积 Max Weighing Volume (L)	5000
	最大称重值 Max Weighing Capacity (kg)	8000
	称量精度 Weighing Precision	±2%
中和罐 Neutralization Reaction Tank	最大容积 Max Volume (L)	600
	数量 QTY	1
外形尺寸（长×宽×高） Overall Dimension(L*W*H) (mm)	3300×2100×2350	
装机总功率约 Total Installed Power (kw)	20	
设备自重 Equipment Weight (kg)	1500	



GDPC-5C 触控型母液合成模块

GDPC-5C PLC Control Type PCE Liquid Production Module

产品简介 | Product Introduction



GDPC-5C是GDPC-5D的改进型，是聚羧宝科技有限公司推出的第二代聚羧酸母液生产模块。GDPC-5C保留了GDPC-5D的优点，同时增加了PLC控制模块，电气开关和全屏触控面板高度集成，实现一键自动生产，系统后台可添加和修改配方，设备配备了WiFi通信模块，可远程诊断设备，是一款高端的减水剂生产设备。



GDPC-5C is an improved version of GDPC-5D. It is the second-generation polycarboxylate mother liquor production module launched by JSB Technology Co., Ltd. GDPC-5C retains the advantages of GDPC-5D, while adding PLC control module, electrical switch and full-screen touch panel are highly integrated to realize one-key automatic production, recipes can be added and modified in the system, the device is equipped with WiFi communication module, which can Remote diagnosis equipment. GDPC-5C is a high-end superplasticizer production equipment.

产品特点 | Features

- 国内首创PLC控制模块 + 触屏管理控制方式，具有自动和手动两种工作模式，界面操控简单，易于掌握，配合公司独立开发的软件，数据管理准确
- **低位投料：**采用低位投料方式，无需搭建高台，操作人员在地面既可投料，减轻人员的劳动强度
- **自带高精度传感器：**设备底部装有称重传感器，所有原料单独计量，投料精确快速
- **模块简单易学：**操作简单，一人即可独立完成生产，大大节省人力成本。
- **合成罐选用耐腐蚀的PPH材质，经久耐用。**化料装置先进，投料顺畅，大功率输料泵+不锈钢泵体，投料速度快，与介质无反应，先进的不锈钢吸料泵，自吸能力强、控制精准
- **滴加设备先进：**采用制药行业使用的蠕动泵，操作简单，稳定，滴加更精准。
- **合成反应快速：**生产5吨聚羧酸母液仅需4小时，可连续生产。
- 钢制机身白色喷漆，耐腐蚀，易清理，造型简洁美观。机箱内部设计紧凑合理，便于后期检修
- **设备摆放灵活：**整机重量仅为1.5吨，一辆叉车既可搬运，无需额外拆卸安装，设备落地既可生产。
- **生产过程环保：**整个过程无任何噪声和环境污染。
- 可预设多款生产配方，按照设定程序进行原料提取，减少工人误操作，提升产品稳定性。
- **WiFi通信模块：**可远程诊断设备，提供维护建议及修改、添加配方。（设备要处于WiFi环境）。
- **出口包装规格：**专业出口用熏蒸木箱，包装完可装进40尺高柜



- PLC control module with touch screen panel display, two modes of operation: automatic, and manual system, friendly interface, easy to use, data management accuracy with JSB technology developed software.
- **Lower feeding inlet:** no need for high-platform, and operating on the ground ,reducing working intensity
- **In-built high-precision sensor:** the module equipped with load cells at the bottom of platform, all the materials are measured separately, accurate and fast feeding will be achieved.
- Easy to learn: simple operation, just one person can complete production independently, significant savings in labor costs.
- **Synthetic tank selection of corrosion-resistant PPH material.** Advanced material feeding device with high-power feed pump and stainless steel pump body, stainless steel suction pump, good performance.
- **Advanced titration equipment:** the module equipped with peristaltic pump which widely used in the pharmaceutical industry, with stable and accurate trait
- **Short synthetic process time:** 5 tons of PCE mother liquid just need 4 hours, and can be continuously produced.
- Steel equipment cabinet with painting, corrosion resisting and easy to clean, aesthetic and simple appearance, reasonable and compact internal structure design, simple operation and easy maintenance.
- **Easy moving:** the whole weight is only 1.5 tons, can be carried by a forklift easily, no need for additional installation, and production is available as soon as placing equipment.
- **Process is environment-friendly:** little noise and no pollution.
- A variety of production formulas can be pre-set, and raw materials are extracted according to the set procedures to reduce worker misoperation and improve product stability
- **WiFi communication module:** It can remotely diagnose equipment, provide maintenance suggestions and modify and add recipes. (The device must be in a WiFi environment).
- **Export packaging specifications:** professional fumigation wooden box, can be packed into a 40``high cabinet after packaging



设备参数

Technical Parameter

型号 Model	GDPC-5C	
生产率（吨/批次） Productivity (ton/lot)	5	
产能 Capacity(L/4 hour)	5000	
合成罐 Main Reaction Tank	最大称容积 Max Weighing Volume (L)	5000
	最大称重值 Max Weighing Capacity (kg)	8000
	称量精度 Weighing Precision	±2%
中和罐 Neutralization Reaction Tank	最大容积 Max Volume (L)	600
	数量 QTY	1
	最大称重 Max Weighing Capacity (kg)	600
	称量精度 Weighing Precision	±1%
外形尺寸（长×宽×高） Overall Dimension(L*W*H) (mm)	3300×2100×2350	
装机总功率约 Total Installed Power (kw)	20	
设备自重 Equipment Weight (kg)	1500	



产品简介

Product Introduction



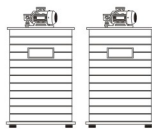
GDNT型原料中和罐是聚羧宝科技有限公司推出的一款与减水剂合成模块组合使用生产保坍剂的设备，形成完整的体系，实现一机多用,满足聚羧酸减水剂母液厂对保坍剂生产的需求。

GDNT is the first generation slump retaining agent mother liquid production module present by JSB technology Co., Ltd. It can be connected with PCE mother liquid production module, become an integrated system to achieve a multi-purpose, and meeting PCE mother liquid plant s requirement.

产品特点

Features

- **自吸投料：**采用自吸泵投料方式，无需人力投料，减轻人员的劳动强度
- **自带高精度传感器：**设备底部装有称重传感器，原料单独计量，投料精确快速
- **模块简单易学：**操作简单，一人即可独立完成生产，大大节省人力成本。
- **设备摆放灵活：**整机重量仅为140kg，可轻松搬运，无需额外拆卸安装。
- **生产过程环保：**整个过程无任何噪声和环境污染。

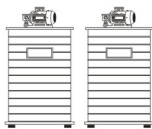


- **Self-priming feed:** no need for manpower, reducing working intensity
- **In-built high-precision sensor:** the module equipped with load cells at the bottom of platform, materials are measured separately, accurate and fast feeding will be achieved.
- **Easy to learn:** simple operation, just one person can complete production independently, significant saving s in labor costs.
- **Easy moving:** the whole weight is only 140kg, can be carried by a forklift easily, no need additional installation.
- **Process is environment-friendly:** little noise and no pollution.

设备参数

Technical Parameter

型号	GDNT	
Model		
中和容积	600	
Neutralization Volume(L)		
配套产能	5000	
Capacity(L/4 hour)		
中和罐	最大称重值	1000
	Max Weighing Capacity (kg)	
Neutralization Reaction Tank	称量精度	±1%
	Weighing Precision	
外形尺寸（直径×高）	1000×1000	
Overall Dimension(Φ*H) (mm)		
设备自重	140	
Equipment Weight (kg)		



产品简介

Product Introduction

减水剂复配是指聚羧酸母液水溶液与其他功能性外加剂混合的过程，是生产成品减水剂最后的环节。针对这一环节，我公司专门设计制造了GDFP这款设备，它将原有零散的装置整合为一体，得益于本身自带的称量传感器及简明的操控界面，使得复配过程更加精准和高效，大大提高了生产效率产品稳定性。同时可与母液合成模块、保坍剂模块构成完整的外加剂生产体系。

The compounding of water-reducing agent refers to the process of mixing the aqueous solution of PCE liquid with other functional admixtures, which is the final step in the production of finished water-reducing agent. Thanks to its own weighing sensor and a simple control interface, GDFP making the compounding process more accurate and High efficiency, greatly improves the production efficiency and product stability. At the same time, it can form a complete admixture production system with PCE liquid synthesis module.



产品特点

Features

- **低位投料：**所有固体原料均使用一个低位投料口，减轻劳动强度。
- **不锈钢材质机身，坚固耐腐蚀**
- **精准计量：**设备装有称重传感器，原料计量精准，无需额外称重。
- **复配罐利用原料泵循环搅拌机制，无需安装搅拌桨**
- **设备小巧可移动：**整机占地不到5m²，重量仅150kg。
- **绿色：**整个过程无任何噪声和环境污染。
- **操作流程简单：**我公司配方配有简明的操作流程，1小时内就可轻松掌握。只需一人，既可完成整个生产环节。



- **Low-level feeding:** All solid raw materials use a low-level feeding port to reduce labor intensity
- **Stainless steel body, strong and corrosion-resistant**
- **Accurate measurement:** the equipment is equipped with a weighing sensor, and the raw material is accurately measured without additional weighing
- **The compound tank utilizes the raw material pump circulating stirring mechanism, no need to install a stirring paddle**
- **The equipment is small and mobile:** the whole machine occupies an area of less than 5 square meters, and the weight is only 150kg.
- **Green:** There is no noise and environmental pollution in the whole process.
- **The operation process is simple:** our company formula is equipped with a concise operation process, which can be easily mastered within 1 hour. Only one person can complete the entire production process.

设备参数

Technical Parameter

型号 Model	GDFP	
生产率（吨/批次） Productivity (ton/lot)	10-15	
复配罐 Compounding Tank	最大称重值 Max Weighing Capacity (kg)	18000
	称量精度 Weighing Precision	±1%
外形尺寸（长×宽×高） Overall Dimension(L*W*H) (mm)	1300×1000×1300	
装机总功率约 Total Installed Power (kw)	20	
设备自重 Equipment Weight (kg)	150	
复配称尺寸（长×宽×高） Compounding scales Dimension(L*W*H) (mm)	1300×1000×1300	

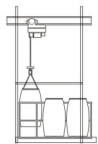


产品简介

Product Introduction

丙烯酸是合成聚羧酸减水剂非常重要的原料之一，但是由于丙烯酸的理化性质决定，丙烯酸在低于13.5℃（华氏温度56.3）环境中大量形成针状结晶体，影响聚羧酸减水剂的生产效率，我公司针对以上问题，特别是高纬度地区在初春，深秋及冬季室温很低情形，独家设计一款用于丙烯酸化料装置。该装置利用电加热水浴丙烯酸，安全有效的解决了客户的困扰。该装置使用简便，配无线遥控控微型电葫芦及挂钩，可轻松吊运200L规格的丙烯酸。

Acrylic acid is one of the very important raw materials for the synthesis of polycarboxylate superplasticizer, but due to the physical and chemical properties of acrylic acid, Acrylic acid forms a large number of needle-shaped crystals in an environment below 13.5℃ (56.3 degrees Fahrenheit), which affects the production efficiency of polycarboxylate superplasticizer. Our company addresses the above problems, especially in high latitudes in early spring, late autumn and winter. The room temperature is very low In this case, we exclusively design a device for acrylic materials. The device uses electrically heated water bath acrylic to safely and effectively solve customers' problems. The device is easy to use, equipped with wireless remote control mini electric hoist and hook, which can easily lift 200L acrylic acid.



产品特点

Features

- 水浴池采用加厚PPH材质，耐高温、抗酸碱腐蚀、

● 装置框架加厚全钢材质，增加了装置的稳定性

● 无线遥控器控制，降低工人劳动力，增加搬运安全性

● 电葫芦经久耐用，

● 设计简约，可以随意移动
- The water bath is made of thickened PPH material, which is resistant to high temperature, acid and alkali corrosion,

● The device frame is thickened with all-steel material, which increases the stability of the device

● Wireless remote control, reduce labor force and increase handling safety

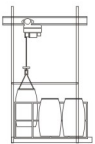
● Electric hoist is durable,

● The design is simple and can be moved at will

设备参数

Technical Parameter

外观尺寸（长×宽×高） overview dimension(L*W*H)(mm)	2200×1100×3150
电葫芦功率 Electric hoist power (kw)	1.2
装置净重量 weight of device(kg)	500
水浴池最大容积 Maximum volume of water bath	可化料600L丙烯酸（3桶） Acrylic acid barrel with 200L volume*3
最大起重重量 Max Lifting weight(kg)	1000
电加热棒数量 Number of electric heating rods	2
化料时间 Melting time	24hrs



产品特点

Features



- **高减水率：**极好的分散性饱和掺量时高达40%以上的减水率，为改善混凝土工作性能、提高混凝土强度、节约水泥提供了保证。
- **较好的保坍性：**可很好的延长混凝土的运输时间和工地的滞留时间，保证了混凝土的可泵送施工性能。
- **高强度增长率：**较高的早期强度增长率，改善收缩性能和降低混凝土的碳化率。
- **良好的适应性：**对各种硅酸盐水泥、普通硅酸盐水泥、矿渣硅酸盐水泥及各种掺合料均具有较好的分散性及保塑性。
- **绿色环保：**无甲醛及其他有害成分。
- **低能耗、低成本：**反应周期短，能耗小，因而成本较低。非常适合商品混凝土搅拌站应用。

- **High water reduction rate:** excellent dispersion and saturation, water reduction rates up to 40%, it provides a guarantee that improving the workability and the strength of concrete, meanwhile saving cement.
- **Good slump retaining performance:** effectively extend the transport time of concrete and the residence time at building site, and keep the pumpability and constructability.
- **High strength growth rate:** higher early strength growth rate, improved shrinkage performance and reduced carbonation rate of concrete.
- **Good adaptability:** good dispersion and plasticity all kinds of Portland cement, ordinary Portland cement, slag Portland cement.
- **Green:** no formaldehyde and other harmful ingredients.
- **Low energy consumption, low cost:** short reaction cycle, low energy consumption, and thus lower cost. Very suitable for concrete mixing plant.

产品指标

Production Index

项目 Item	单位 Unit	标准 Specification
外观 Appearance	/	淡黄色粘稠液体 Yellowish Viscous Liquid
密度 Density	g/cm ³	1.05-1.10
PH	%	6.5~7.5
含固量 Solid Content	%	40
Cl ⁻	%	≤0.01
Na ₂ SO ₄	%	≤0.2
水泥净浆流动度 Cement Paste Fluidity	mm	≥250

包装及贮存

Packaging And Storage

- 本产品液体为200Kg、1000Kg桶装密封。
- 避免阳光直晒，在0℃—35℃的环境中存放。
- 保质期为六个月，超过保质期要通过试验合格后方可使用。
- 200kg drum, IBC TANK, Flexi bag
- Please keep it in a cool dry place between 0℃—35℃, avoid direct sunlight.
- Shelf life: six months, test before being used if over six months.

产品简介

Product Introduction

为我公司研发的新一代环保型聚羧酸高性能保坍剂，具有显著的缓释性，对低坍落度混凝土、坍落度损失快的混凝土极为有利，可以大大提高混凝土的保塑效果。本产品无毒、无腐蚀性、不易燃、对钢筋无锈蚀、对人体健康无害。

It is a new generation of environmental friendly high-performance polycarboxylate based slump retaining agent, it has a significant sustained-release performance, and extremely beneficial for low slump and quick slump loss concrete, it can greatly improve the concrete of the plastic effect. No toxic, non-corrosive, non-flammable, no corrosion of steel, harmless to human health.

产品特点

Features

- **优异的保坍性：**能有效抑制水泥水化初期和诱导期的水化反应速度。
- **缓释性：**该保坍剂具有前期减水率低，后期减水率高的特点。对水泥有优秀的缓释分散性。
- **高强度增长率：**且有较高的早期强度增长率。克服了一般缓凝剂使混凝土凝结时间过长，早期强度发展过慢的缺点。
- **良好的适应性：**它可以广泛应用于普通混凝土、泵送混凝土、超流态自密实以及高强度耐久性混凝土中。特别对核电、桥梁、地铁预制管片要求的低坍落度混凝土、预拌商品混凝土长距离运输的坍落度、流动度的时损失能有效控制，使混凝土在所要求的时间内保持良好的可泵送性和施工性能。

- **Slump retaining performance:** can effectively inhibit the hydration reaction rate during initial and induction period.
- **Sustained release:** it has the characteristics of low water reduction rate during initial period and high water reduction rate during later period.
- **High intensity growth rate:** higher early strength growth rate, overcoming long setting time, slow early strength of the development.
- **Good adaptability:** it can be widely used in ordinary concrete, pumping concrete, super-flow self-dense and high-strength durability of concrete. Especially for nuclear power, bridges, subway prefabricated pipe which require low slump concrete, ready-mixed concrete that need long-distance transport, the flow of the loss can be effectively controlled, so that keep the concrete in good pumpability and constructability in the required time.

产品指标

Production Index

项目 Item	单位 Unit	标准 Specification
外观 Appearance	/	淡黄色粘稠液体 Yellowish Viscous Liquid
密度 Density	g/cm ³	1.05~1.10
PH	%	6.5~7.5
含固量 Solid Content	%	40
Cl ⁻	%	≤0.1
碱含量 alkali content/	%	≤0.5

包装及贮存

Packaging & Storage

- 本产品液体为200Kg、1000Kg桶装密封。
- 避免阳光直晒，在0℃—35℃的环境中存放。
- 保质期为六个月，超过保质期要通过试验合格后方可使用。
- 200kg drum, IBC TANK, Flexi bag
- Please keep it in a cool dry place between 0℃—35℃, avoid direct sunlight.
- Shelf life: six months, test before being used if over six months.

