



企鹅集团 QI'E GROUP

制造基地:中国·河南省产业集聚区詹郇路与泰安路交叉口

Factory add: The crossing of Zhanhuan Road and Taian Road, Industrial Area, Henan, China

办公地址:河南省郑州市高新技术产业开发区莲花街 352 号联东 U 谷 20 号楼9 10层

Office add: 9-10th Floor, Building 20, liando U Valley, No. 352 Lianhua Street, Hightech Industrial Development Zone,

Zhengzhou City, Henan Province, China

Web

中文网:www.qielj.com English:www.qiemach.com Русский:https://ru.qiemachinery.com Espanol:www.qiemachinery.es

பது புகு புகு புகு பிக்க முற்று ம



企鹅集团 QI'E GROUP

SINCE-1982



中国·郑州 ZHENGZHOU·CHINA



质量为本 科技创新 服务至上 企鹅领航

CONTENTS

》目录

01/公司概况/Company Overview

公司简介		
Brief Introduc	tion	01-04
核心价值观/公	司字旨	
Coro Values/C	Company Mission	05.06
Core values/C	ompany Mission	03-06
公司资质荣誉		
Company Hon	nor	07-08
		07-00
02/油料	技术/Oilseeds Technology	
主要业务范围		
Main Business	s Field ·····	09-10
360°服务		
All-around Se	rvice	11-12
厂区图		
	ıt	12 14
ractory Layou	11.	15-14
预处理预榨技术	*	
Pretreatment	and Pre-pressing Technology	15-16
浸出技术		
Solvent Extra	ction Technology	17-18
油脂精炼技术		
Edible Oil Refi	inery Technology	19-20

冬化脱蜡脱脂技术	
Dewaxing and Degreasing Technology	21-22
大豆浓缩蛋白和分离蛋白技术	
Soybean Protein Concentrated and Protein Isolates Technology	23-24
棕榈鲜果压榨技术	
Palm Fruit Pressing Technology	25-26
3D工厂模型	
3D Factory Model	27-28
自动化控制系统	
Automatic Control System	29-30
02/	
03/公司展示/Company Gallery	
加工车间	
Manufacturing	31-32
项目现场	
Installation Site	33-34
发货案例	
Delivery Cases	35-36
植物油/副产品	
植物油/副产品 Vegetable oil/By-products	37-38







ABOUT QI'E

关于企鹅

To be a world-leading provider of grain and oil machinery technology and products!

成为世界领先的油脂机械技术和产品供应商!

占地面积 (m²) Floor Area

1982

公司成立 Founded In 企鹅集团是一家专业生产粮油机械设备,集科研、制造、销售为一体的大型 民营企业,公司与河南省机械设计研究院、河南工业大学(原粮食学院)校企 合作、长期开展在油脂机械、蛋白制取、磷脂提取等方面的新技术研发及应

公司下设油脂机械设计研究所、榨油机部、大型油脂成套设备部、国际贸易 部、机械设备生产部。业务涉及小型榨油机系列、粮油工程设计、设备制造 及安装、工程承包、技术服务、新产品开发、油脂副产品精深加工等。 公司位于河南省省会,郑州国家高新技术产业开发区,占地面积130,000平 方米、拥有各种大、中型金加工、铆焊、装配设备100余台、在线员工200 多人,其中具有中、高级职称的管理人员和工程技术人员60余人。

公司已成功通过ISO9001:2000质量管理体系认证,具有一、二类压力容器 制造资格,拥有多项国家专利,自1982年成立以来,连续被评为:"河南省 质量之星企业"。"重质量守信用模范单位","3.15质量信誉双承诺单位"等。 旗下"企制"牌机械产品被授予:"中国优质名牌产品","全国质量信得过产品" 等多项荣誉,客户所送"技术精湛,值得信赖"等锦旗无数。

公司以科学的管理方法、精益求精的制造工艺、勇于创新的制造理念迅速壮 大成长为中国粮油机械生产和出口基地,公司产销量及各项综合经济指标居 国内同行业之前列,产品畅销全国各地,并出口俄罗斯、南非、乌克兰、尼 泊尔、印尼、哈萨克斯坦、伊朗、朝鲜、越南、巴基斯坦、罗马尼亚、塞尔

100+ 出口国家 维亚等一百多个国家和地区。 Exporting







QI'E Group is a large-sized joint-equity enterprise which is specialized in producing edible oil mechanical equipment and it is also a group enterprise integrating scientific research, manufacturing, and sales as one. Our company has been in long-term cooperation with Henan Mechanical Design and Research Institute, Henan University of Technology (formerly the Zhengzhou Grain College) school-enterprise cooperation in the oil equipment, protein extraction, phospholipid extraction, etc. R &D and application of new technologies.

Our company has set up Mechanical Design and Research institution, oil press machine department, large-sized complete oil equipment department, international trade department, and production department. Our business involves in small-sized oil pressing series, grain and oil engineering designing, equipment manufacturing and installing, project contracting, technical service, new produce development, and the intensive and deep processing for oil by-products, etc. The corporation lies in the High-Technology Industrial Development Zone of Zhengzhou which is the capital city of Henan Province. It covers an area of 130,000 m² and includes more than 100 sets of various large and middle scale processing, plug welding and assembly equipment, more than 200 online employees, among them, and there are over 60 senior administrative staffs and engineering technical personnel.

Our company has passed ISO9001:2000 international quality management system certification. It has the qualification of manufacturing for the first and second class of pressure vessel; besides, it has obtained a number of national patents. Our company has been awarded the "The quality-star enterprise of Henan Province", "Model enterprise with High quality, and keeping promises", "3.15 quality and reputation double promise enterprise" etc since the foundation in 1982. Its trademark "QI'E" mechanical products have been awarded as "Chinese famous brand products", "National Quality trusted consumer products" and many other honored titles. Countless customers show their approval to us with pennants such as "high technical skills, reliable partners".

Our company has grown into Chinese grain and oil machinery production and export base with scientific management, method, and we have been striving for perfecting the manufacturing processes, innovative manufacturing ideas, its production and comprehensive economic indicators lies in the forefront of the same line. The products have been sold all over the county and exported to more than 100 countries and regions such as Russia, South Africa, Ukraine, Nepal, Indonesia, Kazakhstan, Iran, Korea, Vietnamese, Pakistan, Romania, Serbia and so on.





CORE VALUES

核心价值观

核心价值观一 CORE VALUE-1 » 客户是我们的老板。供客户所需, 想客户所想, 站在客户中间, 一路阳光

Customers are our bosses. Supply what customers need, think what customers think. Standing with customers, there will be sunshine all the way.

核心价值观二 CORE VALUE-2 » 诚实敬业精诚合作。每一个企鹅人的诚实守信,铸就了公司真正的诚信 经营,努力工作是从平凡升华为非凡的必要阶梯,团队的精诚合作,公 司与客户的精诚合作,我们方能乘风破浪,驰骋商海。

Honest, dedicated and sincere cooperation. Each QI'E staff's honesty and trustworthiness support our company's good faith management. Hard working is the necessary stage to grow from ordinary to extraordinary. Our team's sincere cooperation, customers and our company's sincere cooperation give us power and make us strong and brave in the business.

核心价值观三 CORE VALUE-3 » 点燃激情,勇于创新。点燃激情的最佳方法:就是热爱本职工作。创 新足企业快速、健康发展的巨大动力,企鹅人要有勇于创新的精神。

Ignite passions, innovation. The best way to ignite passions is to love our job. Innovation is the great motivation for the company's rapid and healthy development. QI'E people should have the spirit of innovation.

COMPANY MISSION

公司宗旨

视质量如生命,视客户为上帝,持诚信互利共荣,以厚德载物

Regard quality as the company life, regard customer as the first, mutual benefit and win-win situation with integrity tenet

质量为本 科技创新 服务至上 企鹅领航

Quality-oriented, Scientific and Technological Innovation, Service First, QI'E Pioneer

我们是企鹅人!跑,不只在跑道;战,不只在战场;记录,是用来打破的;界限,难以对我们设限;我们不 是谁的克隆,不为纪录,不为奖励;我们敢想、敢做、敢拼、敢当、敢为天下先!从我们的内心见证企鹅人 的不同!

We are QI'E people! Run, not just in the runway; War, not only in the battlefield; Record, to be broken; Boundary, is impossible to limit us; We are not whose clone, not for record, not for award; We dare to think, to do, to fight, I dare, being dare! From our inner witness the different QI'E!



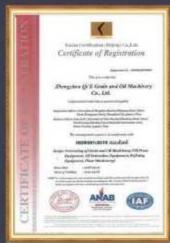
COMPANY HONOR

公司荣誉资质

Our company has passed ISO9001:2000 international quality management system certification. It has the qualification of manufacturing for the first and second class of pressure vessel; besides, it has obtained a number of national patents. Our company has been awarded the "The quality-star enterprise of Henan Province", "Model enterprise with High quality, and keeping promises", "3.15 quality and reputation double promise enterprise" etc since the foundation in 1982. Its trademark "Qi'E" mechanical products have been awarded as "Chinese famous brand products", "National Quality trusted consumer products" and many other honored titles. Countless customers show their approval to us with pennants such as "high technical skills, reliable partners".

公司已成功通过SO9001:2000质量管理体系认证,具有一、二类压力容器制造资格,拥有多项国家专利,自1982年成立以来,连续被评为:"河南省质量之星企业","重质量守信用模范单位","3.15质量信誉双承诺单位"等,旗下"企鹅"牌机械产品被授予:"中国优质名牌产品","全国质量信得过产品"等多顶荣誉,客户所送"技术精湛,值得信赖"等锦旗无数。

























- Henan High-tech Enterprise
 河南省高新技术企业
- > Henan Specialized-Exquisite-Unique-Innovative Enterprise 河南省专精特新企业
- Henan E-commerce Demonstration Enterprise 河南省电子商务示范企业
- National Science and Technology Enterprise 国家科技型中小企业
- E-commerce Model Enterprise of National 国家级电子商务示范企业



MAIN BUSINESS SCOPE

主要业务范围

- 10-500T/H oil material pre-cleaning, drying and storage section turnkey project. 10-500T/H油料初清、干燥、仓储工段交钥匙工程。
- 100-3000T/D oil pretreatment, shelling and pre-press workshop turnkey project (soybean hot peeling, bean skin crushing, soybean extrusion, high oil contained pre-press cake extrusion, and high oil contained embryos direct puffing). Rice bran production line turnkey project.

100-3000T/D油料预处理、剥壳预榨车间交钥匙工程(大豆热脱皮;豆皮粉碎;大豆膨化;高含油料预榨饼膨化;高含油料胚片直接膨化)。米藤生产线交钥匙工程。

100-3000T/D extraction workshop turnkey project (Drag chain extractor, Rotocel extractor, Loop type extractor, DTDC separated machine, the full negative pressure evaporation, paraffin wax recovery, extraction workshop degum, phospholipid concentrate).

100-3000T/D 浸出车间交钥匙工程(拖链浸出器、平转浸出器、环形浸出器、DTDC蒸脱机、全负压蒸发、石蜡回收、浸出车间脱胶、浓缩磷脂)。

- 30-1000T/D oil continuous grade one or two physical (chemical) refining production line.
 30-1000T/D油脂连续物理(化学)精炼工艺产一级、二级油。
- 20-3000T/D sunflower oil, rice bran oil, corn germ oil dewaxing turnkey project. 20-3000T/D葵花油、米糠油、玉米胚芽油脱蜡交钥匙工程。
- 1TPH-120TPH Palm Fruit Processing Line and Palm Kernel Processing Line. 1TPH-120TPH棕榈果生产线和棕榈仁生产线。
- Protein Deep Processing Line 蛋白深加工生产线

ALL-AROUND SERVICE

服务360°

》 Pre-sale 售前

系统评估: 1、项目基本现况;

解决方案: 1、投资预算2、可行性、合理性;

产品选型: 1、工厂考察 2、实地测量 3、技术探讨 4、提供专业的图纸及清单;

合作共赢: 1、签订合同2、建立互惠互利,战略合作关系。

System evaluation:

1. Project basic situation;

Solution:

- 1. The investment budget;
- 2. Feasibility, rationality;

Product selection:

- 1. Factory inspection;
- 2. Site measurement;
- 3. Technical discussion;
- 4. Supply professional drawing and lists;

Win-Win cooperation:

- 1. Sign the contract;
- 2. Establish mutual benefit, strategic.



》 In-sale 售中

设计评审: 1、详细技术评估、布置 2、工艺设计、设备布局设计;

采购预制: 严格把关, 择优选择;

安装调试: 1、保质保量 2、完工交付; 竣工验收: 1、调试检测 2、验收交付

技术培训: 1、现场安装,产品培训 2、操作技能培训 3、维护保养培训 4、集中技术培训。

Design evaluation:

- 1. Detailed technical assessment, arrangement;
- 2. Design of processand equipment layout;

Procurement:

Strictly inspection, optimized selection;

Installation:

- 1. Quality and quantity guaranteed;
- 2. Completion of hand over,

Acceptance:

- 1. Acceptance test;
- 2. Accepted deliverables;

Technical training:

- 1. On-site installation and products training;
- 2. Operation skills training;
- 3. Maintenance training;
- 4. Centralized technical training.

» After-sale 售后

技术服务:长期的技术服务;

配件特供:长期成本价零配件供应; 投诉处理:12-24小时响应机制;

客户回访: 1、电话回访 2、定期上门回访。

Technical service:

Long time technical service;

Accessories supplying:

Supplying spare parts with cost price;

Complaint handling:

12-24 hours response mechanism;

Client Review:

- 1. Call-back:
- 2. Regular return visit.



FACTORY LAYOUT







PRETREATIMENT AND PRE-PRESSING TECHNOLOGY

预处理预榨技术

The technology of our company for pretreatment and pre-pressing mainly include the cleaning, extrusion, flaking, dehulling, and pre-pressing and so on. Considering the different characteristics of oil seeds and the customer requirements, we can provide you the special design, in order to adjust the oilseed to the optimum state, which will improve the oil yield and oil and cake quality, and can provide the best raw materials for the following section.

我公司设计的预处理预榨工艺,主要包括对油料的清理,膨化,压胚,脱皮,预榨等,其工艺根据不同的油料特 点和客户需求进行专门设计,以求把油料调整到最佳状态,提高出油率以及油和饼的品质,为后续制油工段提供 最佳原料。

Pretreatment Main Material

01 | Soybean Pretreatment and Extrusion 大豆预处理膨化

02 | Peanut Pre-pressing 花生预榨

03 | Sunflower Seed Pre-pressing 葵花籽预榨

04 | Rapeseeds Pre-pressing 油菜籽预榨

05 | Cottonseed Pretreatment 06 | Rice Bran and Pre-pressing 棉籽预处理预榨

Extrusion 米糠膨化工段









SOLVENT EXTRACTION TECHNOLOGY

浸出技术

Oil extraction plant designed by QI'E Group mainly includes Rotocel extractor, Loop type extractor, and Towline extractor. According to different raw materials, we adopt different machine types, and we adopt D.T.D.C Desolventizer machine, Full negative pressure evaporation and paraffin recycling equipment at the same time. Equipments are of high quality, advanced technology, high safety, interlocking control, automatic control, stable operation, low consumption, low oil residue, and high quality final products.

企鹅集团设计的浸出生产线,主要包括平转浸出,环形浸出,拖链浸出,根据不同原料,采用不同类型,同时采用D.T.D.C蒸脱机,全负压蒸发,石蜡回收设备。设备质量高,技术先进,安全性能高,设备连锁控制,自动化操作,生产稳定,能耗低,残油低,成品质量高。

TECHNOLOGICAL PROCESS

工艺流程





生产能力: 10-3000吨/天 Capacity: 10-3000T/D







EDIBLE OIL REFINERY TECHNOLOGY

油脂精炼技术

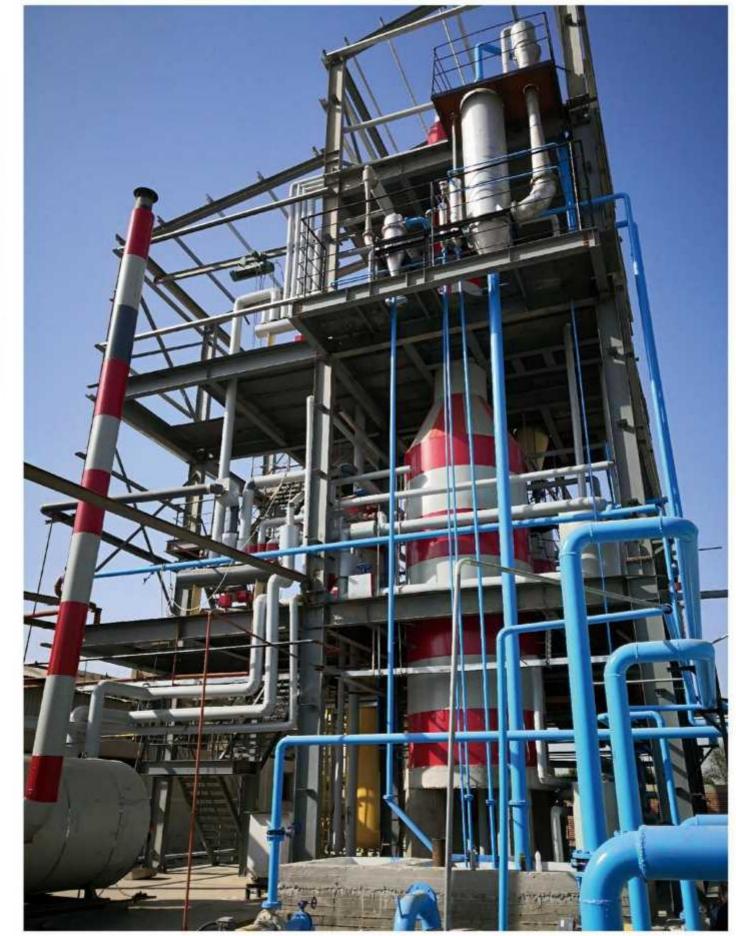
Oil refining is based on the differences of oil and the impurities in the physical and chemical properties, separating the grease and impurity by some technical ways, in order to improve the oil edible, storage stability and safety process. Oil refining process is divided into chemical refining and physical refining.

The refining technology and complete equipment we adopt different kinds of vegetable oil process. According to the raw materials and capacity, we can use batch, continuous, physical and chemical refining design. The product oil can reach first to fourth grade. Guarantee the highest quality at the lowest cost.

油脂精炼就是根据油脂与其中所含杂质在理化性质上的不同,采取一定的工艺措施将油脂与杂质分离开来,以提高油脂食用、储藏的稳定性与安全性的过程。油脂精炼工艺分为化学精炼和物理精炼两种。

我公司研制的油脂精炼技术和成套设备适用于各种植物油和动物油的加工,根据加工原料和生产规模可采用间歇或连 续、化学或物理精炼的工艺设计。可生产一级到四级不同等级的食用油。保证精炼的成本在最低的情况下达到成品油的 最佳品质。

生产能力: 10-3000吨/天 Capacity: 10-3000T/D



DEWAXING, DEGREASING, WINTERIZATION FRACTIONATION TECHNOLOGY

脱蜡、脱脂、冬化、分提技术

Palm oil fractionation technology is a new oil processing technology. Using palm oil fractionation technology can get 80°C, 100°C, 140°C, 180°C, 240°C, 330°C, 440°C, 550°C, etc, different melting points' palm oil products. At the same time, it can also be used to process cottonseed oil, fish oil, pork oil, and other animal oils. This prominently improves the added value of the oil products, increasing the economic benefit of enterprise.

棕榈油分提技术是一项新的油脂加工技术,应用棕榈油分提工艺可得到8度、10度、14度、18度、24度、33度、44度、55度等不同熔点的棕榈油产品,同时也可以用来加工棉籽油、鱼油和猪油等动物油脂,大大提高了油脂产品的附加值,增加了企业的经济效益。



Dewaxing can improve oil palatability, so it plays an important role to the quality of finished oil. At the same time, dewaxing can improve oil transparency and brightness. It is necessary to dewax for some oils such as maize oil, rice bran oil, sunflower oil and cottonseed oil. Although there are many dewaxing methods, such as freezing crystallization method, surfactant method, cold polymerization method, electrostatic method, and neutralized winterizing method, etc, at present, freezing crystallization method is very popular in dewaxing. The crystallizing rate, crystallizing temperature, maturing time, and filter type vary with oil features.

脱蜡是提高食用油品质的一个重要环节。蜡质的存在主要影响油脂的适口性,所以脱蜡的主要目的是提高油脂的适口性,并提高油脂的感官性,如透明度、亮度。不同的油品其蜡质含量是不同的,对如下油品(如:玉米油、米糠油、葵花籽油、棉籽油等)来说,脱蜡几乎是必须的。尽管脱蜡的方法很多,如:冷冻结晶法、表面活性剂法、冷聚剂法、静电法、中和冬化法等。但目前工业生产中基本上都采用冷冻结晶法,同时,由于不同的油品其晶体的性质不同,所以,其结晶速率、温度、养晶的时间及过滤方式也有较大差别。

The new dewaxing and degreasing technology invented by our company adopts full automatic control. Our products have highly advanced technology and stable quality. Compared with the traditional dewaxing and degreasing technology of adding filter aid, the new one has characteristics as follows:

企鹅集团研发的油脂冬化脱蜡脱脂新工艺,电脑全自动控制,工艺技术先进,产品质量稳定。该工艺与传统的加助滤剂的脱蜡脱脂工艺相比,具有以下特点:

- No need to add any filter aid agent, the products are natural and green.
 不需加入任何助滤剂,产品天然环保。
- **02** Easy to filter, the product oil has high yield. 易于过滤,成品油脂得率高。
- Pure by-products edible wax, not contain filter aid agent and can use the edible wax production directly, no pollution.

 副产品食用蜡(脂)纯,不含助滤剂,可以直接用于食用蜡
- High automaticity, and can suit for large-scale commercial run. 自动化程度高,适用于大规模工业生产。

Palm oil fractionation technology developed by QI'E Group is with advanced technology, full computer control system and low cost of investment. It is also with high liquid yield, high purity solid fat, high economic benefit, and some other advantages.

企鹅集团开发的棕榈油分提技术,技术先进,全电脑自动化操作,投资成本较低,液体油得率高,固体脂肪纯度高等优点,经济效益高。







SOYBEAN PROTEIN CONCENTRATE AND PROTEIN ISOLATION TECHNOLOGY

大豆浓缩蛋白和分离蛋白技术

Vegetable protein has incomparable nutrition and functional characteristics compared with animal protein. Vegetable protein has been widely used in food and feed industry recently. And deep processing production including high-protein food, reducing-weight food and protein membrane are developed. That preparation of protein concentrate and protein isolate using low-temperature desolventized meal has widely used.

Soy protein concentrate (SPC) is made of high quality soybean meal by removing the solubility in water or alcohol soluble non-protein part. The protein content is more than 65% (dry basis) and the protein (Nx6.25) of soy protein products.

Soy protein isolation (SPI) is based on soybean as raw material, using the advanced processing technology to make the functional food additives with high protein of 90% or more, which has a good solubility and emulsification, supper bubble, water keeping and viscoelasticity, and high nutritional protein, so it is widely used in meat products (such as western-style ham sausage, lunch meat, sandwich, enema, sausages and meat, etc), cold drink products (such as ice cream, predding, etc), and baked goods (such as bread, cakes, etc).

植物蛋白具有动物蛋白不可比拟的营养特性和功能特性,植物蛋白近来已经被广泛应用于食品和添加剂行业,开 发了高蛋白食品、减肥食品、蛋白膜等深加工产品。大豆蛋白技术主要包括浓缩蛋白和分离蛋白,二者原料都是 用大豆低温粕制备。

大豆浓缩蛋白(Soy protein concentrate, 简写SPC)是用高质量的豆粕除去水溶性或醇溶性非蛋白部分后,所制得的含有65%(干基)以上蛋白质($N\times6.25$)的大豆蛋白产品。

大豆分离蛋白(Soy Protein Isolate, SPI)是以大豆为原料、采用先进的加工技术制取的一种蛋白质含量高达90%以上的功能性食品添加剂,具有良好的溶解性、乳化性、超泡性、持水性和粘弹性,又兼有蛋白质含量高的营养性,所以被广泛地应用于肉制品(例如西式火腿、火腿肠、午餐肉、三文治、灌肠、香肠及肉馅等),冷饮制品(例如冰激淋、奶油、雪糕、布丁等),烘焙食品(如面包、糕点等)中。







PALM FRUIT PRESSING TECHNOLOGY

棕榈鲜果压榨技术

棕榈果运到油厂后,用棕榈果笼车或者 刮板输送机运到杀酵罐。通过脱果机把 棕榈果乐核棕榈串分开后,棕榈果果串 可以用来当化肥或者运到锅炉房当燃 料。棕榈果运到压榨站得到棕榈毛油。

压榨后可以得到棕榈饼和棕榈核,棕榈 核会被运到壳仁回收部分,得到棕榈 仁,棕榈纤维,棕榈壳。棕榈饼也会被 运到锅炉房做燃料。

压榨后得到的油经过过滤,离心分离, 真空脱水得到的棕榈果毛油直接出售或 者进行深加工。工厂产生的废水进行油 分离之后进入污水处理后的污泥再作为 棕榈树的肥料。整个过程运转周期短, 自动化程度高,环保节能。 FFB Process: After transport the FFB to palm oil mill, the fruits will go to sterilizer by conveyor or palm fruit cage. After separating palm fruits and palm bunch by thresher, Pam fruits will be conveyed to palm oil presser to get CPO. Palm bunch can be used as fertilizer or fuel.

After pressing, we can get palm cake and palm nut. Pam nuts will be conveyed to palm recovery system to get palm kernels, fiber and palm shell. Palm cake will be conveyed to boiler room as fuel.

After filtering, centrifuging, vacuum drying, we can get crude palm oil (CPO), the CPO can be sold directly or used for further processing.

The sewage from all the plant will be processed by sewage treatment to reach discharge standard. Sludge can be used for fertilizer in palm plantation. All the process cycle features with short operation cycle, high automaticity, energy conservation and environmental protection.

























AUTOMATIC CONTROL SYSTEM

自动化控制系统

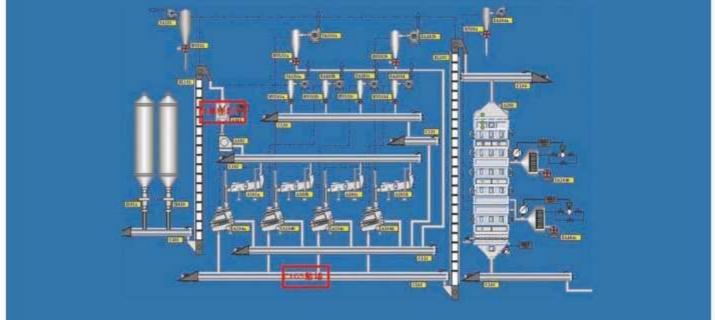
自动化控制系统在油脂行业中发挥着越来越 重要的作用,企鹅集团开发的全电脑自动控 制系统是集先进性,安全性,可靠性,稳定 性于一体的自动化控制系统。

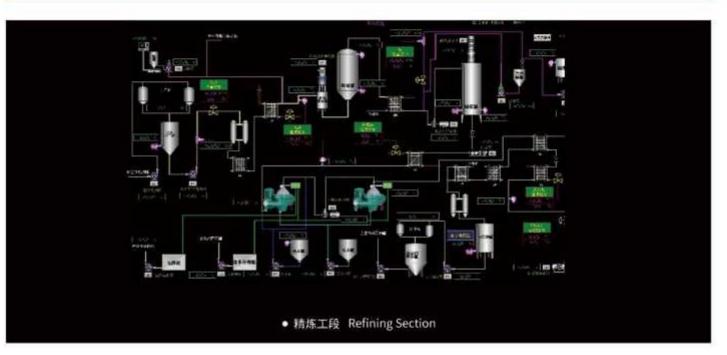
在油脂生产过程中,可以实现对整个系统,各个工段的自动控制,从原料、油品计量、过程管理和记录、到灌区液位数据监控、温度信息监控及地磅数据。预处理预榨、浸出、精炼和分提等各个车间都可以通过对温度控制和数字化的温度设定以及温度变化曲线设定,受控参数报警范围的设定及报警时间记录;对压力(真空度)设定,受控参数报警范围的设定及报警时间记录;对液位,物位控制和数字化液位、物位设定;对流量监控和数字化流量设定;对电机电流和其他参数测量及实时显示。独立的危险气体浓度报警及排风输出。

在精炼分提车间,通过控制室内的电脑终端 可以控制整个车间的生产,可以监控到每台 设备的运行状态,整个车间可由一人操作完 成,生产管理高效。强化生产科学管理、减 少了人工操作的盲目性、降低了生产成本, 同时也为管理人员对企业生产全面了解和掌 控提供针对性的数据和方法,提高管理效 率。 Automatic control system plays more and more important role in oil industry. The full computer-controlled automation system developed by QI'E GROUP integrates the advancement, security and reliability.

During the oil production, the whole system adopts auto-controlled in every section including material, dosing, process management and record, liquid level & temperature monitoring and loadometer. The plants including pretreatment, pre-pressing, extraction, refining and fractionation can achieve the temperature control, digital temperature setting, temperature variation curve setting, pressure & digital pressure setting through auto-controlled system, all this range of controlled parameters' alarm settings & alarm time recording, the liquid/material level & the digital level setting, material level setting, traffic flow monitoring and digital design setting, as well as real-time display of motor current and other parameter measurement, independent gas concentrations risk alarm and exhaust's output system.

In the refining fractionation plant, we can control the entire production of the plant through the computer terminal in the control room, and also can monitor the operation status of each device. The whole plant can be operated by one person perfectly and efficiently, which strengthens scientific management. Automatic-control not only strengthens scientific management, reduces the blindness of manual operation and product cost, but also helps managers understand & control manufacturer comprehensively and provide aimed data and method to improve the management efficiency level.











MANUFACTURING

加工车间







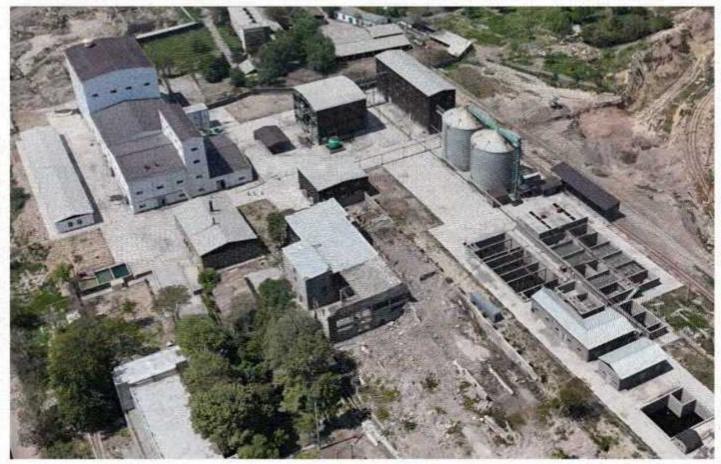




INSTALLATION SITE

项目现场









DELIVERY CASES

发货案例





VEGETABLE OIL

植物油



BY-PRODUCT

副产品







Mixture of Palm Kernel and Shell