





地址:浙江省温州市经济技术开发区滨海园区海桐路808号 Add: No.808 Haitong Road, Binhai Development Zone, Wenzhou Economic and Technological Development Zone, Zhejiang, China 电话/Tel: +86-577-86867777 服务热线/Service: +86-577-86825195 传真/Fax: +86-577-86810195 邮箱/E-mail: info@jhenten.com

www.jhenten.com

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Tea, Coffee and Bone Extract Process Module



关于镇田 About Jhenten



镇田机械创建于1986年,超过35年的不断积累, 我们的业务范围遍及制药工程、食品饮料、精细化 工、新能源等行业,并致力于为客户提供最具挑战 和核心价值的工艺罐体及工艺模块系统解决方案。 镇田始终坚持以稳定的产品质量,严谨的工程设计 和完善的用户服务,赢得客户的长期信赖,助力全 球客户实现高效生产与持续发展。

Zhejiang Jhen Ten Machinery Co.,Ltd, established in 1986, has over 35 years of continuous innovation and expertise accumulation. Our solutions span across pharmaceutical engineering, food & beverage, fine chemicals, and the new energy sector, specializing in delivering highly challenging and value–driven process vessels and modular process systems. Committed to consistent product quality, rigorous engineering design, and comprehensive customer support, Jhen Ten has earned long–term trust from global clients. We empower industries worldwide to achieve efficient production and sustainable growth through cutting–edge technological integration.



35+

超35年行业制造经验 With more than 35 years of industry manufacturing experience



公司现有员工300多名 The company currently has more than 300 employees

40000+

拥有现代化厂房40000多平方米 It has a modern factory building of more than 40,000 square meters

RTC-Extra 02 03

RTC-Extra 茶/咖啡/骨素提取工艺模块 **Tea, Coffee and Bone Extract Process Module**



RTC-Extra 04 05



RTC-Extra 茶/咖啡/骨素提取工艺模块 **Tea, Coffee and Bone Extract Process Module**



可拆卸式支耳,方便现场轻松吊装就位

底部排渣门配置高压清洗头,

避免茶/咖啡渣积料 A high-pressure cleaning head is configured at the bottom slag discharge door to prevent the accumulation of tea or coffee residues.

The tea residue squeezing machine enables flexible slag discharge methods.

桨叶式及双螺带等多种搅拌形式,可实现搅拌高度升降,有效提高萃取效 率, 搅拌具备平料功能, 满足不同物料处理量要求。

出渣门结构 Structure of the slag discharge door



旋转式出渣门及大口径多爪式设计 Rotary type & Large-diameter residue discharging door

全自动开闭罐盖;可以实现高温高压提取,转环式可达到3Bar以上,给提 取工艺提供了更多的选择,也可以适应一些特殊的工艺要求,安全可靠, 具有充分的安全保障功能、提取罐无泄漏。

过滤方式 Filtering method

筒体侧过滤方式及底部排渣门过滤网 Cylinder side & bottom drain door filtration

对于粘性大较难过滤的药液采取罐体侧过滤方式,过滤网安装在筒体壁上 药材不会紧压粘糊在过滤网上,所以过滤器更加通畅。过滤网为激光加光 的长孔形不锈钢网。底部过滤采用两层,下部支撑网,上部不锈钢网板, 网板上面密布0.6×10mm的长孔,相比较席形编织网,长孔网板更不易 堵塞,过滤通畅,不锈钢抛光处理耐用时间6-8年不要更换。

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Multiple stirring forms such as paddle type and double screw ribbon type are available. The stirring height can be raised and lowered, which effectively improves the extraction efficiency. The stirring function includes leveling the materials, meeting the requirements of different material processing volumes.

The tank cover can be automatically opened and closed. High temperature and high pressure extraction can be realized, and more than 3Bar can be achieved in the swivel type product. It provides more selection for extracting technology. It can also meet some special technological requirements. With good safety and reliability, it has sufficient safety guarantee functions and the extracting tank has no leakage.

For the liquid with high viscosity and difficult to be filtered, the tank side filtering method is adopted. The strainer is installed on the cylinder wall and the medicinal materials will not press and paste on the filter net, so the filter is more unobstructed. The filter is a long hole – shaped stainless steel mesh with laser glazing. The bottom of the filter using two layers, lower support mesh, upper stainless steel mesh board, net board covered with 0.6 × 10mm long hole, compared with mat woven mesh, long hole mesh board is more difficult to block, filter unobstructed, stainless steel polishing durable for 6-8 years do not replace.

立式萃取罐 Vertical Extraction Tank

咖啡萃取罐 Coffee Extraction Tank



固定搅拌 Fixed Agitator Type

升降搅拌 Lift Agitator Type

参数 Parameter	rs 型号 Model	JTRDC-2000	JTRDC-3000	JTRD-5000	JTRDC-6000	JTRDC-8000	
有效容积 Effect	tive volume (L)	2000	3000	5000	6000	8000	
罐体 Tank	直径 Diameter (mm)	Φ 1300	Φ 1600	Φ 1800	Φ 1900	Φ2000	
	高度 Height (mm)	1500	1500	1800	2000	2200	
搅拌 Agitator	电机功率 Power (kW)	2.2	3	4	5.5	7.5	
	搅拌工作转速 RPM (r/min)	35(螺带式) (可根据客户使用情况进行调整设计) 35(screw) (Can adjust the design according to the customer's usage)					

上表数据为标准型,仅供参考,可根据客户要求定制 The above-mentioned data is the standard, it can customize according to customer's requirements.



参数 Parameter	rs 型号 Model	JTRKC-1000	JTRKC-1500	JTRKC-2000	JTRKC-3000	JTRKC-5000		
有效容积 Effective volume (L)		1000	1500	2000	3000	5000		
罐体 Tank	直径 Diameter (mm)	Φ1100	Φ 1250	Φ 1300	Φ 1600	Φ 1800		
	高度 Height (mm)	1000	1200	1500	1500	1800		
搅拌 Agitator	电机功率 Power (kW)	1.5	1.5	2.2	3	4		
	搅拌工作转速 RPM (r/min)	60(倾叶开启涡轮式)(可根据客户使用情况进行调整设计) 60(Special open turbine impellers) (Can adjust the design according to the customer's usage)						

上表数据为标准型,仅供参考,可根据客户要求定制; The above-mentioned data is the standard, it can customize according to customer's requirements.

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卧式萃取罐 Horizontal Extraction Tank







性能特点 Characteristics

- ・卧式搅拌节省高度空间限制;
- ·翻倒式结构节省出料和过滤时间,提升批次效率;
- ・柔性化布局,根据现场可灵活调节;
- ・PLC+触摸屏控制,可实现远程操控。

- The horizontal stirring saves the limitation of height space;
 The tilting structure saves the discharging and filtering time and improves the batch efficiency;
 With flexible layout, it can be flexibly adjusted according to the site;
 Controlled by PLC + touch screen, remote operation can be realized.

型号 Model	JTRHC-5	JTRHC-10	JTRHC-15	JTRHC-20	JTRHC-28	JTRHC-36	JTRHC-X	
规格 Specification	500L	1000L	1500L	2000L	2800L	3600L		
直径 Diameter(A)	800	1100	1200	1300	1400	1500	可指定	
长度 Length(B)	1200	1400	1600	1900	2306	2437	Can be	
总长 Total length (H)	1050	1350	1450	1550	1650 1750 specifie			
搅拌速度 Agitator speed (Rpm)	30~40	30~40	30~40	30~40	30~40	30~40		

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骨汤提取系统 Bone Soup Extraction System

骨汤、骨素及骨肽智能化生产系统 Bone soup, ossein and ossotide intelligent production system





乳化调和工段 Emulsification and reconciliation section

主要组成 Main composition

原料骨破碎系统、提取系统、水回收系统、汤液分离系统、 浓缩系统、调配灭菌系统、美拉德反应系统、成品暂存系 统、罐装系统、残骨系统、电控系统等组成。

Raw bones grinding system, extraction tank system, water recovery system, soup separation tank system, concentrating system, preparing and pasteurizing system, maillard reaction tank system, finished product storage system, filling system, residue broken bones treating system, electrical control system.

工艺流程 Procedure flow

禽畜骨→粉碎→预处理→提取→分离→浓缩→调配→干燥→ 罐装、袋装→成品。

Raw animal bones \rightarrow Grinding \rightarrow Pre-processing \rightarrow Extracting \rightarrow Separating \rightarrow Concentrating \rightarrow Blending \rightarrow Drying \rightarrow Filling/packing \rightarrow Finished \rightarrow Product 低温浓缩系统

Low temperature concentration system

适用范围 Application range

该系统适用于各类骨汤溶液的浓缩。根据骨汤的成分和物化性 质,利用现代技术、MVR等技术实现骨抽提物的分离和浓缩, 来生产高附加值的骨产品。

性能特点 Characteristics

- ·运行稳定、高效节能,蒸汽耗量低;
- ·浓缩比大,浓缩时间短;
- ·适用于热敏性物料的浓缩;
- ·传热系数高,可防止"干壁"现象。
- Stable working, energy-saving, low steam consumption.
- High concentration factor, short concentration time.
- Workable for heat sensitive material.
- High heat transfer confficient, can prevent the "Drywall" phenomenon.

乳化调和系统 Emulsification and reconciliation system



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This system is applicable in concentraing of all kinds of bone extracts solution According to the content and physico-chemical property of bone extracts solution, we adopt the technology of membrane filtration or MVR to achieve the separating and concentrating the bones extract, and produce the bone products with high additional value.



萃取中试模块 **Extraction Pilot Plant**

产品全生命周期服务 **Product Life Cycle Service**

低温高效萃取技术

Low-Temperature High-Efficiency Extraction Technology

- ·精准控温
- ·灵活调控压力和萃取时间
- ·动态萃取
- Precision temperature control
- Flexible pressure and extraction time adjustment
- Dynamic extraction process

全流程清洁与防污染设计 Full-Process Hygiene & Contamination Prevention

- ·卫生级构造
- ·安全材质
- Sanitary-grade construction
- · Safety-certified materials

便捷运维与合规保障 Easy Maintenance & Compliance

- ·远程智控
- ・合规认证(GMP/FDA)
- Remote smart control
- Compliance certifications (GMP/FDA)

柔性生产与稳定品控 Flexible Production & Stable **Quality Control**

·模块化拓展

- 支持小试到量产放大
- ·智能化品控
- Modular expansion capability
- Scalable from pilot to mass production
- · Intelligent quality monitoring

智能化节能降耗体系 Intelligent Energy-Saving System

- ·能量循环
- ·溶剂零浪费
- Energy recycling
- · Zero solvent waste







- ・工艺优化Process optimization

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・智能集成Smart system integration