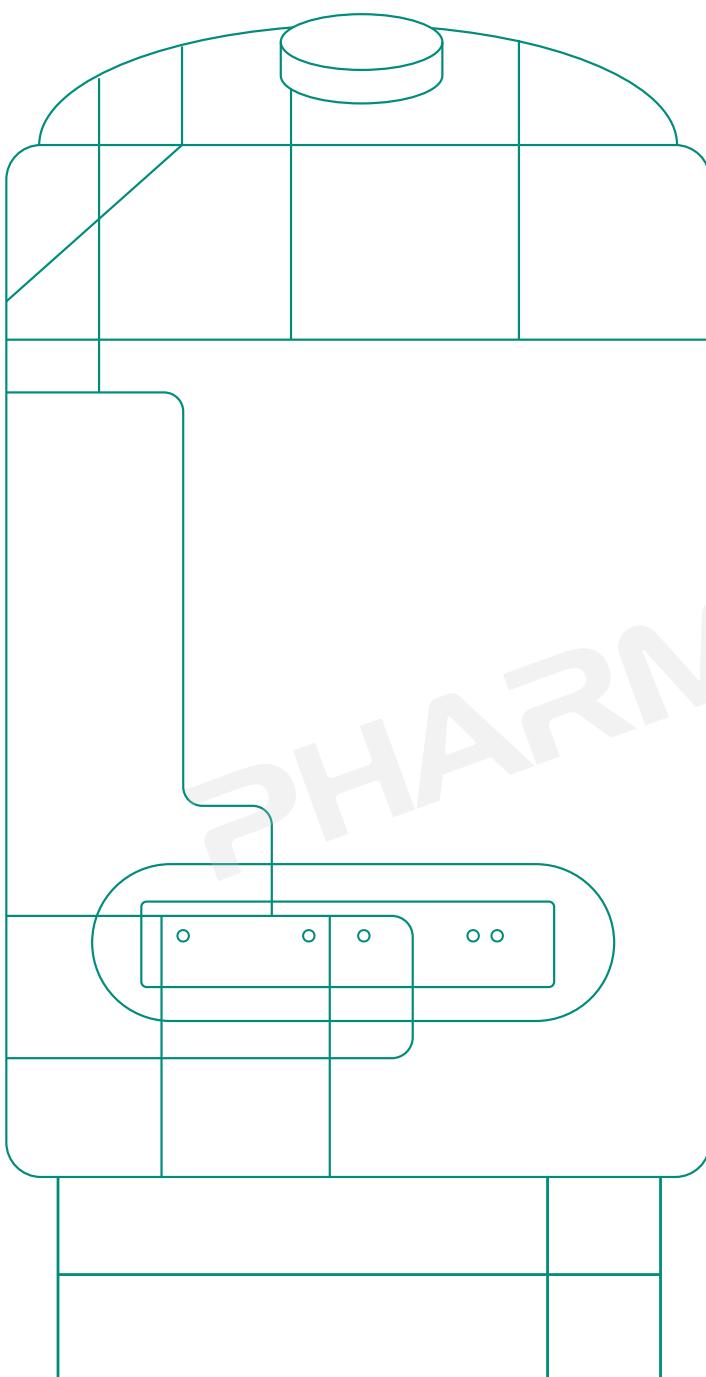


不锈钢

STAINLESS STEEL
BIOREACTOR SYSTEM

生物反应器系统

XBioR



**全悬浮
高定制
自动化**

SUSPENSION SOLUTIONS
HIGHLY CUSTOMISED
AUTOMATED

关于我们 ABOUT US

珐成浩鑫致力于为生物制药、日用化工、合成生物及相关行业提供**专业的洁净流体系统工程服务**。专注于推动**流体工艺技术突破**和**自主知识产权工艺装备**的打造,实现高质量、可持续的洁净流体设备**本土化制造之路**。

PHARMAC is committed to providing professional clean liquid system engineering services for the pharmaceutical, daily chemicals, food, synthetic biology and related industries. We have been dedicated to driving breakthroughs in fluid process technology and the development of proprietary process equipment in order to achieve high-quality and sustainable localized manufacturing of clean fluid equipment.

能为客户提供包括:**生物反应器、配液系统、生物发酵系统、水机及分配系统**等专业流体工艺设备。

We are capable of providing customers with professional fluid process equipment such as bioreactors, formulation systems, fermentation systems, PW & WFI generation & distribution systems.

PHARMAC, **引领洁净流体系统新方向, 助力生命科学领域前行。**

Leading the way in the clean liquid system, making contributions in the advancement of life sciences.

谁更需要我们 WHO NEEDS THIS SYSTEM



人源(化)抗体生产

Humanized antibody production



人用/兽用疫苗的生产

Human / animal vaccines production



哺乳动物细胞培养 表达重组蛋白

Recombinant protein production in mammalian cell culture expression



昆虫细胞生产

Insect cell production

我们提供什么 WHAT DO WE OFFER

珐成浩鑫的 **XBioR** 系列不锈钢生物反应器系统,规模涵盖从实验室规模到工业生产超大规模(**5L-15KL**)。通过 **CFD 仿真模拟**技术优化了罐内气液、液液和固液的混合效果,具备**低剪切、强混合**的搅拌设计,支持多种气体组合通气策略和精准的温度控制,配备丰富的**在线监测技术**,有效提升了细胞培养密度和表达性能。

Pharmac's XBioR series stainless steel bioreactor systems, with scales ranging from laboratory-scale to industrial-scale (5L-15KL). Using CFD simulation technology, we optimize gas-liquid, liquid-liquid, and solid-liquid mixing effects, featuring low shear, high mixing intensity agitation design. We support various gas combination aeration strategies and precise temperature control, equipped with comprehensive online monitoring technologies to effectively enhance cell culture density and expression performance.

此外,我们提供以生物反应器为核心的工艺设备三维设计,针对大型设备,可进行**黑白分区设计**,降低项目建设风险,减少运维成本。公司还与国内知名高校合作,可为客户提供部分**细胞培养基及工艺验证服务**。

In addition, we offer three-dimensional design of process equipment centered around bioreactors. For large-scale equipment, we can implement black-and-white partition designs to mitigate project construction risks and reduce operational costs. Our company also collaborates with renowned domestic universities to provide customers with certain cell culture media and process validation services.

经典项目案例 CLASSIC PROJECT CASES

XB-15000

15,000L超大规模不锈钢生物反应器

15,000L Ultra Large Scale Stainless Steel Bioreactor



XB-100/500/1000/3000/5000

100L/500L/1,000L/3,000L/5,000L 不锈钢生物反应器

100L/500L/1,000L/3,000L/5,000L Stainless Steel Bioreactor



已服务客户

SERVED CUSTOMERS

 兰州生物制品研究所有限责任公司
LANZHOU INSTITUTE OF BIOLOGICAL PRODUCTS CO.,LTD.

 HPGG 华派®
HUAPAI BIOLOGICAL GROUP 生物集团

 华晟
HUASHENG

 大华农
DAHUANONG



 YEBIO
易邦生物

 CENTREBIO

 美兰生物
MEILAN SHENGWU

 MEBOL0 SWINE BREEDING

 ringpu®
瑞普生物

 中岸生物
SINOLAND

...

产品可视化

SYSTEM HIGHLIGHTS



XBioR 系列已实现:
5L-5000L 标准不锈钢生物反应器系统
5L-15,000L 定制生物反应器系统
上游成套设备解决方案



设备功能 EQUIPMENT FUNCTIONS

关键质量属性 / 关键工艺参数监控

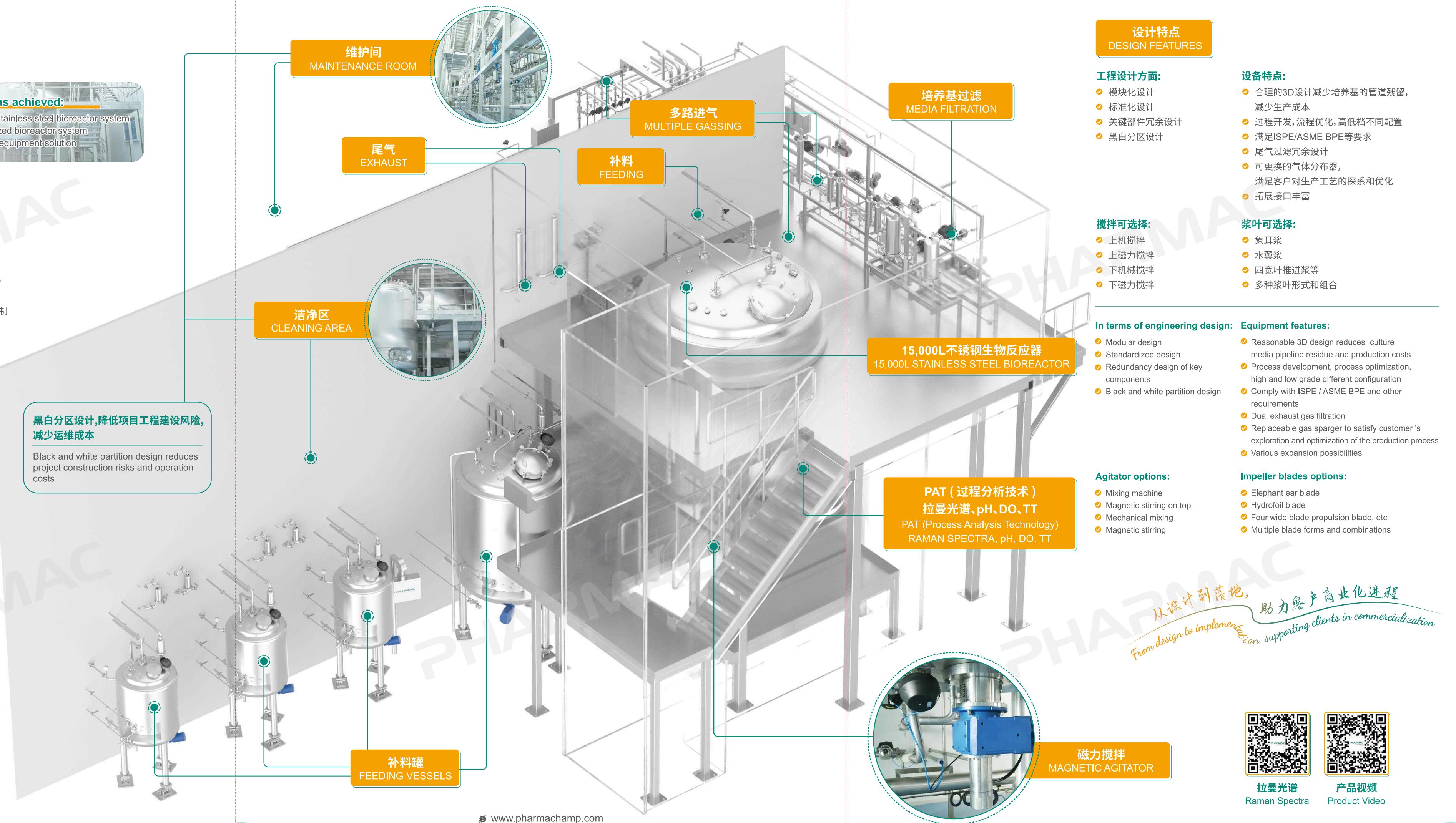
- pH
- 压力
- 细胞传感器 (选项配置)
- (自动)控压功能
- (自动/关联) pH控制
- 防止培养基返流功能
- 自动放料功能
- 气体流量 (自动)控制
- DO
- 尾气分析仪 (选项配置)
- (自动)CIP/SIP功能
- (自动)消泡功能
- (自动/关联)补料控制
- 防止尾气过滤器堵塞功能
- 自动提升功能
- 温度
- 拉曼光谱 (选项配置)
- 自动控温功能
- (自动/关联)溶氧控制
- 多种补料策略
- 自动移种功能
- 防错防呆功能

CQA / CPP

- pH
- Pressure
- Cell sensor (option configuration)
- Automatic temperature control function
- (Automatic) Defoaming function
- (Automatic /Associated) pH Control
- Multiple feeding strategies
- Prevent clogging function of exhaust filter
- Automatic feeding function
- Minimised risk of operator
- DO
- Exhaust gas analyzer
- (Automatic) CIP/SIP function
- (Automatic) Pressure control function
- (Automatic/Associated) DO control
- (Automatic/Associated) Feeding Control
- Prevent medium reflux function
- Automatic seed transfer function
- Automatic lifting function
- Gas flowrate (automatic) control
- Temperature
- Raman spectra(option configuration)
- (Automatic) CIP/SIP function
- (Automatic) Pressure control function
- (Automatic/Associated) DO control
- (Automatic/Associated) Feeding Control
- Prevent clogging function of exhaust filter
- Automatic feeding function
- Gas flowrate (automatic) control

控制系统功能 CONTROL SYSTEM FUNCTIONS

- PLC或DCS
- 上位机(选项配置)
- GAMP5
- ISA S88
- 多级权限管理功能
- SCADA (option)
- GAMP5
- ISA S88
- Multi level permission
- 配方管理功能
- 审计追踪功能
- 自动报警功能
- 实时/历史曲线查询功能
- 趋势曲线
- Recipe management function
- Audit tracking function
- Automatic alarm function
- Real time/historical curve query function
- Trend curve
- 补料数据记录
- 批报表自动生成功能
- Feeding data record
- Batch report function





我们的最优解

OUR OPTIMAL SOLUTION



标准化

STANDARDIZATION



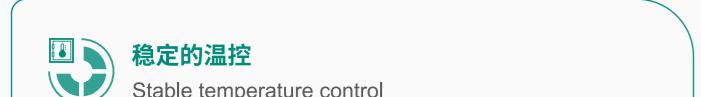
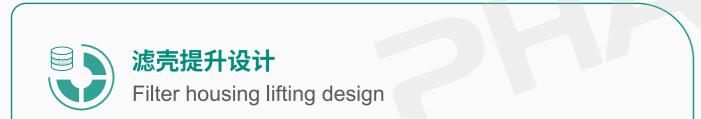

根据客户的需求定制生物反应器

Customized bioreactors according to client's requirements



定制化

CUSTOMIZATION




XBioR 系列参数表

XBIOR SERIES PARAMETER TABLE

容器 Vessel	<ul style="list-style-type: none"> 工作体积 Working volume 全容积 Total volume 最小工作容积 Minimum liquid working volume 容器高径比 Overall geometry H:D ratio 设计压力 Design pressure 设计温度 Design temperature 	<ul style="list-style-type: none"> 5L-30KL 7L-40KL ~30% 1.1:1~2:1 -1~3 barg 5-150°C
搅拌 Agitator	<ul style="list-style-type: none"> 桨叶形式 Impeller type 桨叶数量 Impeller quantity 搅拌电机 Agitation motor drive 电机功率 Motor power 搅拌器类型 Agitator type 	<ul style="list-style-type: none"> 象耳桨或莱宁水翼桨 Elephant ear or lightning impellers 2 380V AC 3/220 V AC 根据应用条件 According to the application condition 上/下机械或磁力 Top / bottom mechanical or magnetic
夹套 Jacket	<ul style="list-style-type: none"> 夹套类型 Jacket type 温度控制 Temperature control 	<ul style="list-style-type: none"> 全夹套/蜂窝夹套/半管夹套 Full/ Dimple/ half-pipe jacket 冷/热板换循环控温或电加热控温 Closed loop system with recirculation pump and heat exchanger for heating and cooling or electrical heating
过程监控 仪表 Process monitoring instrument	<ul style="list-style-type: none"> pH Probes DO Probes MFC 泡沫电极 Foam probes 压力传感器 Pressure transmitter 液位/重量监测 Level/Weight 温度监测 Temp. 可选 Option 	<ul style="list-style-type: none"> 2 (可选备用接口) (Spare nozzle is optional) 2 (可选备用接口) (Spare nozzle is optional) 流量计+控制阀或MFC Flowmeter+control valves or MFC 1 (可选备用接口) (Spare nozzle is optional) 1 (可选备用接口) (Spare nozzle is optional) 差压液位或称重模块 Differential pressure level transmitter or load cell 单支双芯(可选备用接口) Single with double core (Spare nozzle is optional) CO₂ 电极/细胞密度电极/拉曼电极 CO₂ Probes / Cell density Probes / Raman Probes
通气 Gassing strategy	<ul style="list-style-type: none"> 表层通气 Surface 深层通气 Deep 	<ul style="list-style-type: none"> 管道直通 Open pipe 环形分布器 Ring sparger 微泡管 Microsparger
尾气 Exhaust	<ul style="list-style-type: none"> 空气 Air 氧气 O₂ 二氧化碳 CO₂ 氮气 N₂ 过滤器 Filter 	<ul style="list-style-type: none"> 按需求配置 Configure as required 按需求配置 Configure as required 按需求配置 Configure as required 按需求配置 Configure as required 0.2um 除菌过滤器 Microbial filter
取样 Sampling	<ul style="list-style-type: none"> 换热器 Heat-exchanger 过滤器 Vent Filter 尾气分析 Vent gas analysis 	<ul style="list-style-type: none"> 排气冷却器和加热器可选配 Exhaust cooler and heater for option 0.2um 除菌过滤器 (一用一备可选) Dual 0.2um microbial filter (One use, one prepare for option) 预留备用接口 Spare nozzle for reservation
进/补料 Feeding	<ul style="list-style-type: none"> 取样阀手动/自动 Sampling valve Manual/Automatic CIP/SIP 	<ul style="list-style-type: none"> 手动/自动 Manual/Automatic CIP/SIP
控制系统	<ul style="list-style-type: none"> 进料1 Feeding line 1 进料2 Feeding line 2 进料3 Feeding line 3 进料4 Feeding line 4 进料5 Feeding line 5 进料6 Feeding line 6 进料7 Feeding line 7 进料8 Feeding line 8 灌流 Perfusion 	<ul style="list-style-type: none"> 接种 Seed Feeding 培养基进料 Medium Feeding 蠕动泵/流量计可供选择 Peristaltic pumps / Flowmeter for option 蠕动泵/流量计可供选择 Peristaltic pumps / Flowmeter for option 蠕动泵/流量计/备用口可选 Peristaltic pumps / Flowmeter / Spare nozzle for option 蠕动泵/流量计/备用口可选 Peristaltic pumps / Flowmeter / Spare nozzle for option 可选备用接口 Spare nozzle for option 可选备用接口 Spare nozzle for option 可选备用接口 Spare nozzle for option
	<ul style="list-style-type: none"> Siemens Wincc or PCS7+batch 触摸屏或电脑 Touch screen or IPC 编程 Programming 	<ul style="list-style-type: none"> ISA-88 GAMP5

 **我们的制造能力**
WHAT WE OFFER

- 制造始于1995年
Our history of manufacturing can be traced back to 1995
- 20年+, 清洁容器/换热器/模块设计及加工制造历史
20+ years' experience in clean vessel/heat exchanger/module design and manufacturing
- 容器及模块制造工艺流程的过程控制
Process control of vessel and module manufacturing process flow
- 国内少有可生产钛材/哈氏合金等特材压力容器的厂家
One of the few domestic manufacturers with the capacity to produce pressure vessels made of special materials such as titanium and Hastelloy



 **认证**
AUTHENTICATION

- 压力容器特种设备生产许可证
Pressure Vessel as Special Equipment Production License
- ASME (美国机械工程师协会)U钢印授权证书
"U" Steel Seal Certificate of Authorization from ASME
- 压力设备(PED) 认证
Pressure Equipment Directive (PED) Certification
- 可提供满足
GMP, CFDA, FDA, EMA, WHO等体系的文件
We can provide documents that meet the requirements of GMP, CFDA, FDA, EMA, WHO and other systems





扫一扫 阅无限
WeChat Account



扫一扫 知产品
Product Encyclopedia

珐成制药系统工程(上海)有限公司

Pharma Champ Pharmaceutical Engineering (ShangHai) Co., LTD.

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