

FLUID & THERMAL SYSTEMS

Fluid Connection Components, Welded Tanks & Custom Reservoirs

流体连接件、焊接箱体与定制储液箱

A manufacturing partner for thermal management, mobile machinery and industrial fluid systems.

- **Precision fluid connection components**
精密流体连接件
- **Coolant tanks and radiator tanks**
冷却液水箱与散热器水室
- **Hydraulic oil tanks and custom reservoirs**
液压油箱与定制储液箱

Manufacturing Solutions for Fluid and Thermal Management Systems

面向流体与热管理系统的制造解决方案



Changzhou Rayhanna Machinery Co., Ltd. is a manufacturing partner for fluid connection components, welded tanks and custom reservoirs used in thermal management, mobile machinery and industrial fluid systems.

常州雷哈那机械有限公司面向热管理、移动机械及工业流体系统，提供流体连接件、焊接箱体与定制储液箱制造服务。

2013

Established
成立

3,000 m²

Manufacturing Area
制造场地

60+

Employees
员工

8

Technical staff
技术人员

100+

Equipment units
设备数量

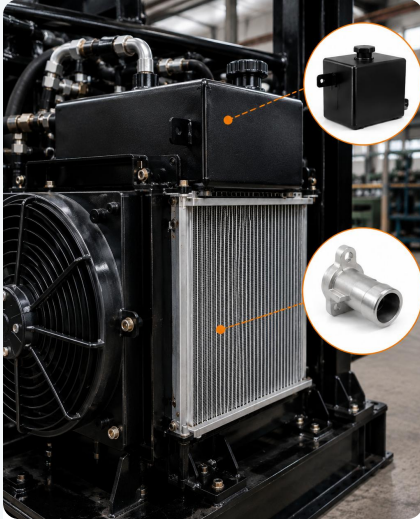
Quality systems and manufacturing focus

质量体系与制造重点

- IATF 16949:2016
- Precision machining · Welding · Leak testing
精密机加工 焊接 泄漏测试

Focused Applications, Flexible Manufacturing Support

聚焦应用场景，提供灵活制造支持



Thermal Management 热管理系统

Radiators, cooling modules and data-center cooling systems.

散热器、冷却模块及数据中心冷却系统。

Coolant tanks · Fluid fittings

冷却液水箱 · 流体连接件



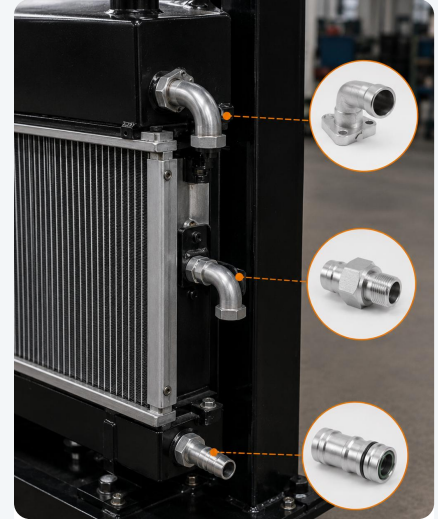
Mobile Machinery 移动机械

Agricultural and construction equipment applications.

农业机械及工程机械应用。

Oil tanks · Welded reservoirs

液压油箱 · 焊接储液箱



Industrial Fluid Systems 工业流体系统

Hydraulic power, lubrication, pumping and filtration equipment.

液压动力、润滑、泵送和过滤设备。

Machined Fittings · Custom parts

机加工接头 · 定制零件

Existing applications include AGCO agricultural machinery, CAT / Volvo / SANY construction equipment projects and data-center cooling components.

现有应用包括AGCO农业机械、CAT / Volvo / SANY工程机械项目以及数据中心冷却系统零部件。

Precision Fluid Connection Components

精密流体连接件



Custom-machined fittings, threaded ports and connection interfaces in aluminum, stainless steel, carbon steel and copper, prepared for subsequent customer-side brazing, welding or assembly processes.

可按图定制铝、不锈钢、碳钢及铜制接头、螺纹接口和连接结构，并适配客户后续钎焊、焊接或装配工艺。

CUSTOMER VALUE / 客户价值

- Stable fit and sealing performance for fluid systems**
 提升流体系统连接稳定性与密封可靠性
- Drawing-based customization for fittings, ports and interfaces**
 支持接头、接口及连接特征的按图定制
- Material selection support for customer-side brazing and corrosion requirements**
 支持面向客户侧钎焊及耐腐蚀要求的材料选型

PRODUCT COVERAGE / 产品范围

Fittings
接头

Threaded Ports
螺纹接口

Connection Blocks
流体连接块

Brazing-ready Parts
适配客户钎焊零件

Custom Fittings, Ports and Connection Blocks

定制接头、接口与流体连接块

Machining capability for drawing-based fluid connection components

面向按图定制流体连接件的机加工能力

PRODUCT FAMILY / 产品类别

Elbow fittings

弯头接头

Threaded ports

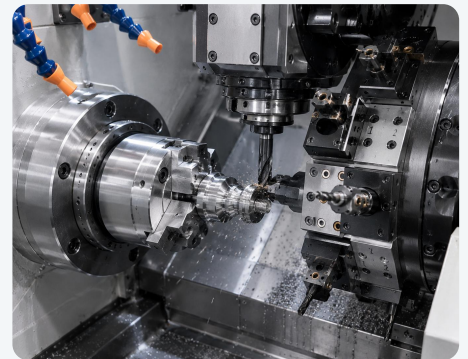
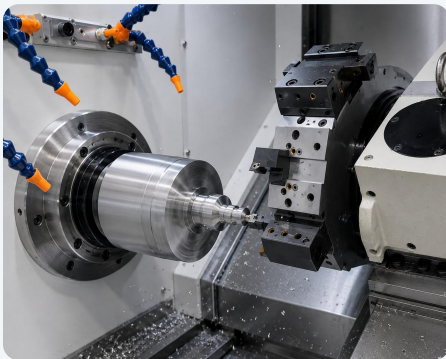
螺纹接口

Connection blocks

流体连接块

Custom interfaces

定制接口



TECHNICAL SCOPE / 技术范围

MATERIALS

材料

Aluminum / Stainless Steel / Carbon Steel · Copper

铝 · 不锈钢 · 碳钢 · 铜

BRAZING SUITABILITY

钎焊适配性

Low-magnesium aluminum option for subsequent customer-side brazing process

可选低镁铝材，以适配客户侧后续钎焊工艺

THREADS

螺纹

Metric and imperial with calibrated gauges

公制/英制螺纹及校验检具

VOLUME

批量

Prototypes, pilot runs and medium-volume production

支持样件、试产及中批量生产

PROJECT FLOW / 项目流程

01

RFQ & Drawing Review
图纸询价与图纸评审

02

DFM & Process Planning
DFM与工艺策划

03

Machining
机加工

04

Ultrasonic cleaning
超声波清洗

05

Dimensional Inspection
尺寸检验

06

Packaging
包装交付

ENGINEERING NOTE / 工程说明

Selected machined features may achieve tolerances as tight as ± 0.01 mm after engineering review

经工程评审后,部分机加工特征可实现低至 ± 0.01 mm的公差控制。

Coolant Tanks, Radiator Header Tanks & Expansion Reservoirs

冷却液水箱、散热器水室与膨胀储液罐



Custom tanks and welded assemblies for vehicle cooling, radiator modules and data-center or industrial thermal management equipment.

为车辆冷却、散热器模块、数据中心及工业热管理设备提供定制水箱和焊接总成。

CUSTOMER VALUE / 客户价值

- **Custom tank assemblies for cooling and thermal management systems**
面向冷却与热管理系统的定制箱体总成
- **Welding, forming and leak testing capability integrated into one project workflow.**
焊接、成形与泄漏测试纳入同一项目流程
- **Leak-test criteria defined by customer drawings and project specifications**
泄漏测试标准依据客户图纸及项目规范确定

PRODUCT COVERAGE / 产品范围

Expansion
膨胀水箱

Radiator Header Tanks
散热器水室

Coolant tanks
冷却液水箱

Industrial cooling
工业冷却

Designed for Reliable Cooling System Integration

面向可靠冷却系统集成的定制制造

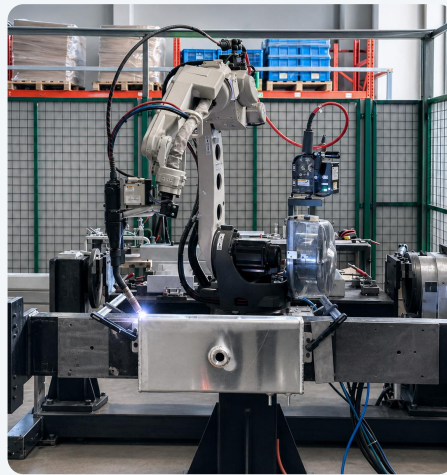
PRODUCT FAMILY / 产品类别

Expansion tanks
膨胀水箱

Coolant reservoirs
冷却液储液罐

Radiator tanks
散热器水室

Industrial cooling tanks
工业冷却水箱



TECHNICAL SCOPE / 技术范围

CAPACITY

容积

Approx. 0.1-200 L

约0.1-200升

MATERIALS

材料

Aluminum · Carbon Steel · Stainless Steel

铝 · 碳钢 · 不锈钢

FINISHES

表面处理

Phosphating · Passivation · Powder Coating

磷化 · 钝化 · 喷塑

TESTING

检测

Liquid or gas leak testing / pressure testing

液体或气体泄漏测试 / 压力测试

PROJECT FLOW / 项目流程

01

Drawing review
图纸评审

02

Component Processing
零件加工

03

Welding
焊接

04

Leak testing
泄漏测试

05

Surface Treatment
表面处理

06

Final Inspection & Packaging
终检与包装

ENGINEERING NOTE / 工程说明

Typical air leak testing pressure is around 0.2 MPa. Higher test pressure, up to 1.0 MPa, can be reviewed according to product structure and customer specifications.

常规气密测试压力约0.2MPa；更高测试压力最高可至1.0 MPa，需根据产品结构及客户规范进行项目评审。

Hydraulic Oil Tanks & Custom Reservoirs

液压油箱与定制储液箱



Drawing-based reservoirs for construction machinery, hydraulic power units, lubrication systems and industrial equipment.

为工程机械、液压动力单元、润滑系统和工业设备提供按图定制储液箱。

CUSTOMER VALUE / 客户价值

- Drawing-based reservoirs for hydraulic, lubrication and industrial fluid systems
面向液压、润滑及工业流体系统的按图定制储液箱
- Welded structures with ports, brackets, baffles and covers integrated
可集成接口、支架、隔板及盖板的焊接结构
- Dimensions, cleanliness, coating and leak criteria reviewed by project
尺寸、清洁度、涂层及泄漏标准按项目评审确定

PRODUCT COVERAGE / 产品范围

Hydraulic Tanks
液压油箱

Power Unit Reservoirs
动力单元油箱

Lubrication tanks
润滑油箱

Custom Reservoirs
定制箱体

From Fabrication to Tested Tank Assemblies

从箱体制造到测试合格的总成交付

PRODUCT FAMILY / 产品类别

Hydraulic tanks
液压油箱

Power unit reservoirs
动力单元油箱

Lubrication tanks
润滑油箱

Custom Reservoirs
定制储液箱



TECHNICAL SCOPE / 技术范围

MATERIALS

材料

Carbon Steel (Q235) · Stainless Steel · Aluminum
碳钢(Q235) · 不锈钢 · 铝

STRUCTURES

结构

Flange · Covers · Ports · Brackets
法兰 · 盖板 · 接口 · 支架

PROCESSES

工艺

Forming · Welding · Assembly
成形 · 焊接 · 装配

INSPECTION

检测

Dimensional Inspection · Cleanliness · Leak / Pressure Testing
尺寸检验 · 清洁度 · 泄漏/压力测试

PROJECT FLOW / 项目流程

01
Material Preparation
材料准备

02
Forming
成形

03
Welding
焊接

04
Assembly
装配

05
Leak / Pressure Testing
泄漏/压力测试

06
Packaging
包装

ENGINEERING NOTE / 工程说明

Tank size, cleanliness, coating and leak criteria are defined by customer drawings and specifications.

箱体尺寸、清洁度、涂层和泄漏判定依据客户图纸及规范确定。

Engineering Support from Drawing Review to Production

从图纸评审到批量生产的工程支持



Cross-functional launch reviews bring engineering, quality, purchasing, production, logistics and project management into the same controlled workflow.

跨职能项目启动评审将工程、质量、采购、生产、物流及项目管理纳入同一受控流程。

- 01
RFQ & Drawing Review
询价与图纸评审
- 02
DFM & Process Planning
DFM与工艺策划
- 03
Prototype Development
样件开发
- 04
FAI / PPAP Submission
FAI / PPAP提交
- 05
Batch Production Launch
量产启动
- 06
Change control
变更控制

PROTOTYPES 样件

Typically 7 working days after technical confirmation
技术确认后机加工样件通常7个工作日

TANK SAMPLES 水箱样件

Typically 15 working days after technical confirmation
技术确认后水箱样件通常15个工作日

MOQ 起订量

Product and process dependent
按产品及工艺确定，可接小批量

LOGISTICS 物流

Accepted Incoterms: EXW, FCA, FOB, etc.
可接受EXWFCAIFOB等贸易条款

Flexible volume and production capacity, Prototypes and small batches accepted
灵活的生产规模和产能，可接受样品和小批量订单



START YOUR NEXT PROJECT

Start Your Next Manufacturing Project with Rayhanna

与雷哈那开启下一个制造项目

Send us your drawings, specifications or samples for technical review and quotation.

欢迎发送图纸、技术要求或样件，我们将进行技术评审并提供报价。

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