

RITMAN
瑞马智能



RITMAN
瑞马智能

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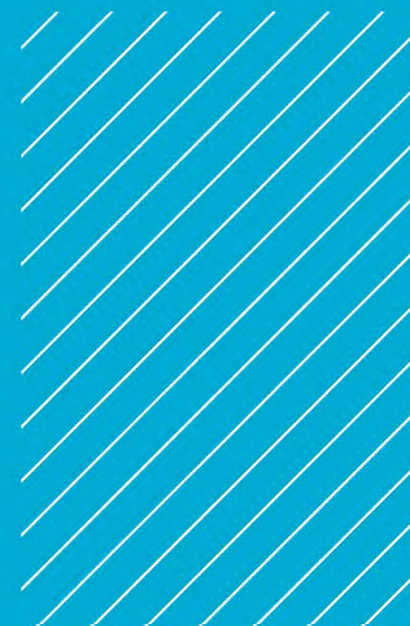
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徐州瑞马智能技术有限公司
Xuzhou RITMAN Equipment Co., Ltd.



COMPANY INTRODUCTION

公司介绍



瑞马的每一个荣耀时刻，都是一个科技革新的里程碑，以创新的思维不断践行，发挥不屈不朽的精神，感恩行业中的每一次认同和肯定！

Every glorious moment of RITMAN is a milestone of scientific and technological innovation, which is constantly practiced with innovative thinking, exerting its immortal spirit, and thanking every recognition and affirmation in the industry.

About Us 关于我们

- ▶ 瑞马智能以“热镀锌生产绿色化、信息化、智能化、无忧化”为使命，以热镀锌生产全新价值创造为设计理念，专注于新型环保数字化热镀锌生产线及相关设备研发、制造和实践。
- ▶ 数据赋能，技术驱动，公司基于热浸镀锌工业大数据，利用定制数字化产品和工业物联网技术，致力于热镀锌全产线的智能制造。
- ▶ Xuzhou RITMAN Equipment Co.,Ltd., taking environmental, informationized, intelligentized and trouble-free HDG production as our mission and new value creation for HDG production as design concept, is devoted itself into R&D, manufacturing and practices of new type environmental digitalized HDG production line and relevant equipment.
- ▶ Data Enable and Technology Driven. Our company, based on big data for HDG industry and by applying industrial IoT technology and customized digital products, focuses on the intelligent manufacturing of entire HDG production line.

08

高新技术产品
High-tech products

65

专利证书
Patent Certificates

Qualifications

- ▶ 瑞马智能依据500强企业的先进管理经验，制定了《技术机密管理制度》、《知识产权考核评价制度》、《专利信息使用制度》。公司从立项开始，即通过两化指标、加强内部创新驱动及第三方评审等方式，实现闭环管理并成立两级知识产权管理机构，为技术立企保驾护航。
- ▶ 先后被评为：国家高新技术企业、热浸镀锌智能化工程研究中心、江苏省研究生工作站、外经贸先进企业、SIEMENS数字化工厂集团和过程工业和驱动集团合作伙伴。
- ▶ RITMAN, referring to advanced management experience from top 500 enterprises, has constituted Technology Confidentiality Management System, Intellectual Property Assessment and Evaluation System and Patent Information Use System. RITMAN will implement closed-loop management through the index of industrialization and informatization and by strengthening internal innovation drive and third-party evaluation once the project initiates; and meanwhile, we've established the two levels of IP management mechanism, so that the technical foundation of the enterprise is secured.
- ▶ The enterprise has been rated as: National Hi-tech Enterprise, Engineering Research Center for Intelligent Hot-Dip Galvanizing, Post-graduate Workstation of Jiangsu Province, Advanced Enterprise in Foreign Economic and Trade, Cooperation Partner of SIEMENS Digital Factory and SIEMENS Process Industry and Drives Group.

荣誉资质



Corporate Culture 企业文化



企业愿景 VISION

成为热浸镀锌行业绿色化、智能化、无忧化生产的引领者。

To play a leading role of eco-friendly, intelligent and trouble free production in the hot-dip galvanizing industry



价值观 VALUE

认真
Earnest

开放
Open

勇气
Courage

责任
Responsibility



企业使命 MISSION

持续创新，让锌资源更好的服务于人类。

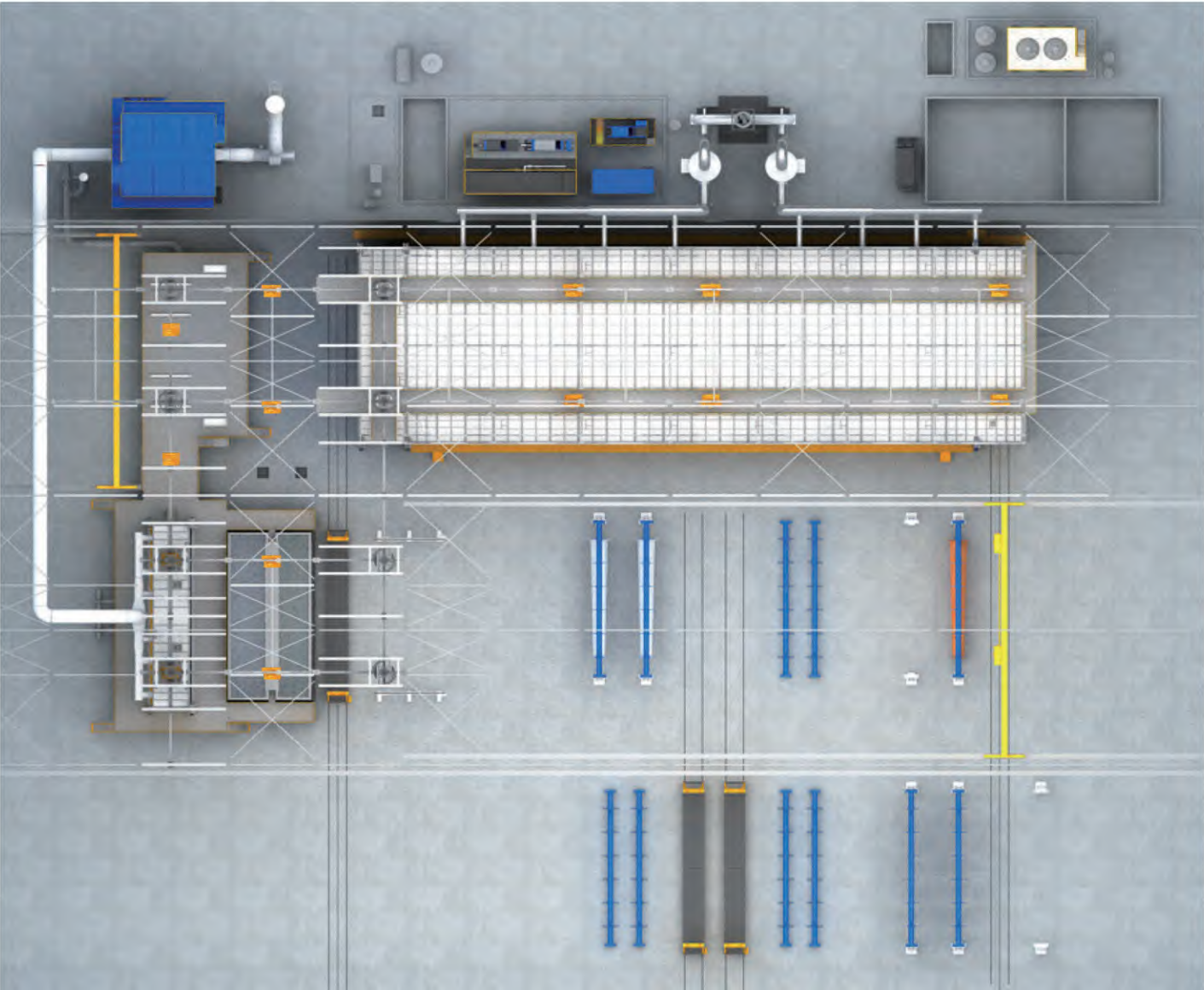
To keep innovating and make zinc resource better service to mankind

Construction of New HDG Line 新线建造



特点 Characteristics

- 1、端进侧出式工艺布局
End-in & side-out process arrangement
- 2、先进的物流运输定位系统
Advanced logistics transportation positioning system
- 3、集成模块化的环保设备
Having modular environmental protection equipment integrated
- 4、自动检测和控制技术
Automatic detection and control technology
- 5、集合信息化及智能化管理系统应用
Integrated application of informatization and intelligent management system
- 6、基于安全生产的全新设计
New design based on safe production



理念 Concepts

- 1、首创端进侧出式的热镀锌工艺布局，解决了传统直线型生产效率低下，以及端进端出式布局的产品易出色差缺陷的难题
The innovative arrangement of end-in & side-out for the HDG process solves the problems of low productivity on traditional linear HDG line as well as usual color shading defect occurred in end-in & end-out arrangement
- 2、减量化的工艺设计及完整的环境保护方案
Process decrement design, and complete environment protection plan
- 3、基于热浸镀锌工业大数据基础上研发的智能产线管控系统
The intelligent production line management system researched and developed based on the big data of HDG industry

Reconstruction of Traditional HDG Line

传统线改造



行业现状 Industry Status

- 1、环保不达标
Non compliance to EP standard
- 2、安全无保障
Unguaranteed safety
- 3、质量波动大
Unstable quality
- 4、成本不可控
Uncontrolled cost
- 5、效率低下
Low efficiency

特点 Characteristics

- 1、封闭间采取大跨度硬横梁结构, 不改变原厂房结构
The pretreatment enclosure adopts long span and rigid beam structure, without changing the original structure of the workshop
- 2、进出封闭间采用两道门结构设计, 不破坏原有厂房地面
Two sliding doors structure design at the entrance and exit of the pretreatment enclosure, without damaging the existing workshop floor
- 3、锌烟收集采用侧吸加弧形罩方式, 收集效率高、消耗功率低
Side suction and cambered hood are adopted, which features high collection efficiency and low power consumption

Reconstruction



优势 Features

- 1、模块化设计及制造, 不改变原厂房结构, 施工周期短
Modular design and fabrication to shorten construction period without changing the original structure of the workshop
- 2、自主研发的热镀锌管理系统, 大幅提升热镀锌车间管理水平
The independently developed HDG management system to greatly improve the management level at the workshop
- 3、自动化控制技术的应用, 确保工艺的稳定及物流转运的高效运行
The application of automatic control technology to ensure process stability and high efficient operation of material flow

Automated and Informationized HDG Production Line for the Scaffolding
自动化、信息化脚手架热镀锌生产线（侧进端出式）



脚手架线，产线特点：

Characteristics of the HDG Galvanizing Production Line for the Scaffolding:

- ▶ 1、生产线设备集中，占地面积少，在一跨车间内实现 L 型自动循环；
Equipment concentrated in a small area and L-type automatic circulation in a one-span workshop;
- ▶ 2、物流设计巧妙，利于物流高效、安全运行并为高产能奠定基础；
Clever design for material flow, which is conducive to efficient and safe operation and lays a foundation for high production capacity;
- ▶ 3、产线自动化、信息化程度高，利于生产成本控制、产能跟踪、设备养护等生产管理需要；
The high degree of production automation and informatization is conducive to production management needs, such as production cost control, capacity tracking and equipment maintenance, etc.;
- ▶ 4、采用一体化、自动化环保设备，高效、低耗生产的同时，实现车间无烟无酸雾的同时，固废产生量较传统线降低 50% 以上。
By applying the integrated and automated EP equipment, the high efficiency and low consumption production are achieved, while leaving no smoke and no acid mist in the workshop; and the amount of solid waste generated is reduced by more than 50% compared with the traditional line.

Fully Automated and Informationized HDG Production Line for the Bolts and Nuts
全自动化、信息化标准件热镀锌生产线



全自动化、信息化标准件热镀锌生产线：
Fully Automated and Informationized HDG Production Line for the Bolts and Nuts

- 特点一：产线镀锌区域采用全机器人作业，高效、稳定、保证质量的同时，剔除了高温作业环境的不安全因素。

A robot is used in the area for galvanizing operation; with efficient and stable operation and guaranteed quality, it also eliminates the unsafe factors in the high-temperature operating environment.

- 特点二：在线离心技术，直接在锌锅上完成锌篮抓取、离心、多余的锌直接落入锌锅，减少氧化率，快速实现二次回用。

A robot is used in the area for galvanizing operation; with efficient and stable operation and guaranteed quality, it also eliminates the unsafe factors in the high-temperature operating environment.

- 特点三：可移动镀锌平台，方便捞渣、现场清理、设备维护等操作的同时，又将三工位转盘、离心设备、锌烟集气罩等集成，实现高效、低耗的目标。

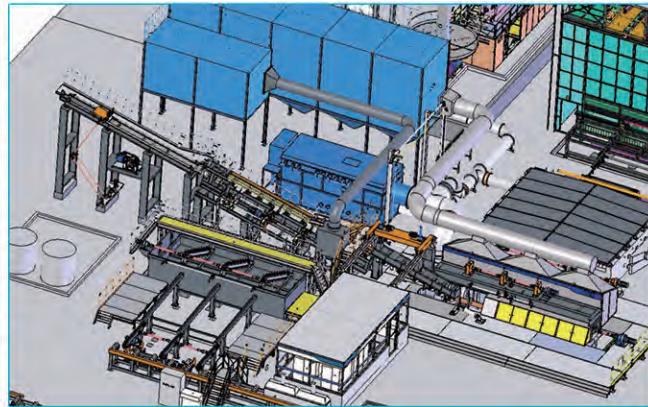
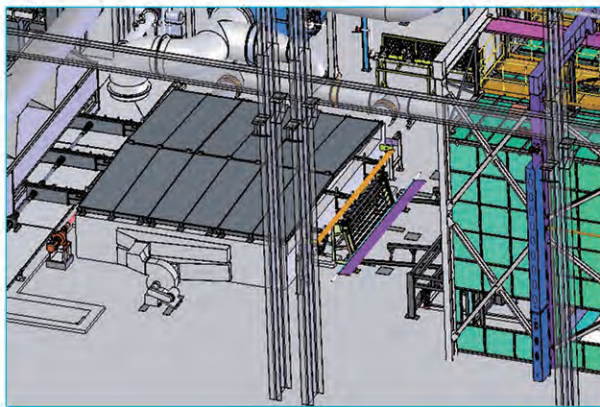
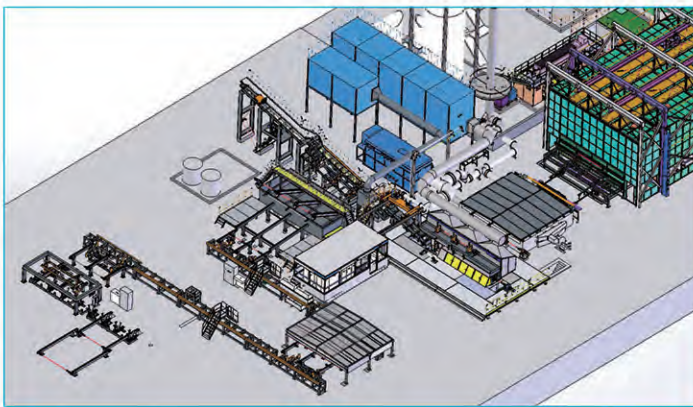
The movable galvanizing platform is convenient for slag cleaning, on-site cleaning and equipment maintenance. Meanwhile, it also integrates a three-station turntable, the centrifugal equipment and the galvanizing smoke collection hood to achieve the goal of high efficiency and low consumption.

- 特点四：产线通过信息化、数字化技术的加入，实现在线完成产品信息、位置信息、锌耗、设备运行参数等数据收集工作，实现了人工离机操作，确保安全，实现生产成本最小化。

By applying the technologies of informatization and digitalization, the production line can automatically accomplish the data collection for product information, location information, zinc consumption and equipment operating parameters, etc., thus realizes labour-off-machine operation to ensure safety and minimize the production costs.

Blow plating line 吹镀线

Blow plating line 吹镀产线特点:

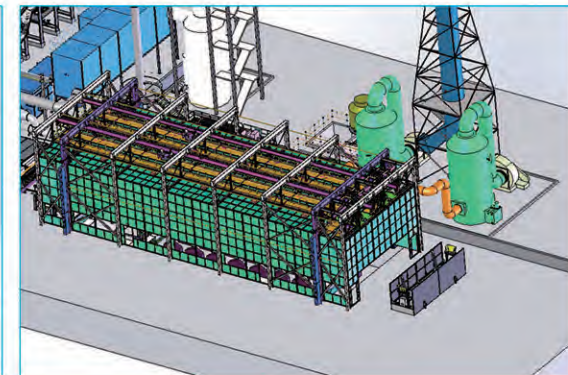
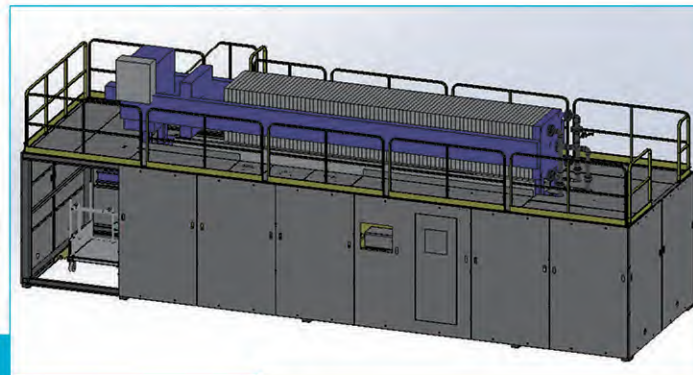
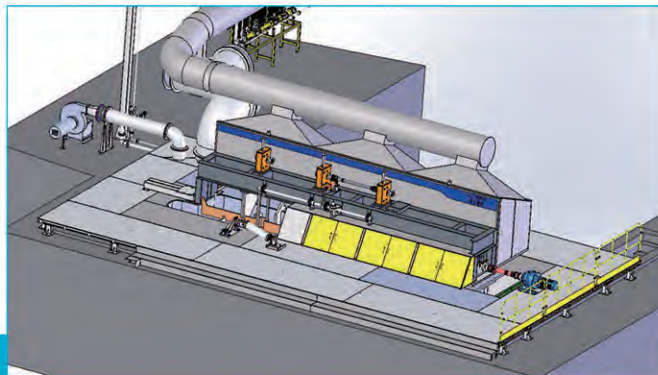


► 1. 以生产工艺为基础，生产线布局更合理。

Based on the production process, the layout of production line is more reasonable.

► 2. 实现全系统自动化、信息化，利于生产成本控制和产品质量提升。

Realize automation and informatization of the whole system, which is conducive to control production cost and improve product quality.



► 3. 合理的生产线设备选型，节能降耗更突出。

Reasonable selection of production line equipment makes energy saving and consumption reduction more prominent.

► 4. 优化设计的镀锌机组设备，操作更简单、噪声底、稳定性高、易维护性更强。

Optimized design of galvanized unit equipment, more simple operation, little noise, high stability, easy maintenance.

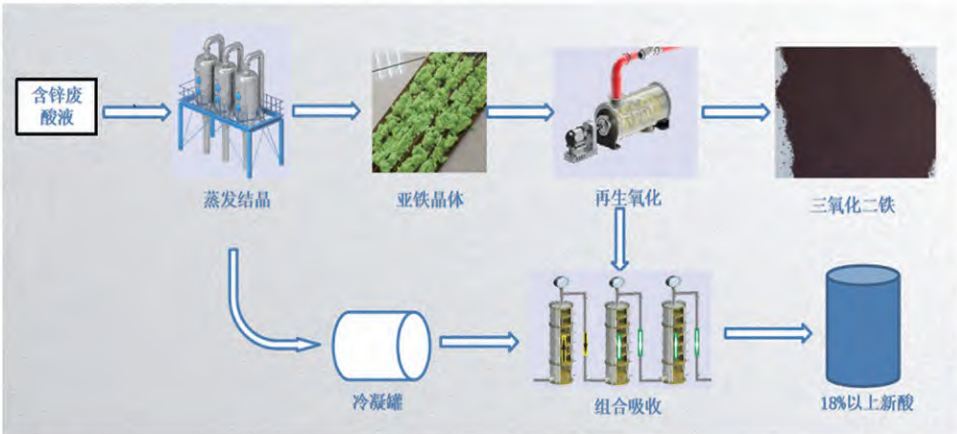
► 5. 全自动吹镀线实现封闭间全自动酸洗，在保证酸洗效率的同时，实现自动更换酸洗吊带，避免酸槽内带入助剂液成分，达到清洁用酸的目的。

Two pre-treatment processes are designed for different contamination surfaces on the parts to be galvanized; the process technology of ultrasonic degreasing and shot blasting is used.

Zinc Sludge Hydrochloric Acid Resource Recycling and Utilization System

含锌废盐酸资源化再生利用系统

► 1. 工艺流程图:
1.Process pictures:



► 2. 描述:
2.Description:

含锌废盐酸资源化再生利用系统，是针对批量热浸镀锌行业含锌废酸研制开发的处理系统，通过“蒸发结晶 + 再生 + 组合吸收”工艺技术，可实现含锌离子浓度高达 20g/L 的废盐酸的再生利用。
此再生利用系统可将含锌废酸转化为 18% 左右盐酸和三氧化二铁固体，实现酸的再生利用，并回收一定的经济效益，同时可为企业规避环境、管控、连带责任等风险，进而助推企业的可持续发展。

含锌废盐酸资源化再生利用系统特点：

- A. 系统可处理的废盐酸中锌离子含量高达 20g/L；
- B. 系统 HCL 回收率高，可达 99% 以上；
- C. 系统回收酸可全部回用于生产，酸浓度 18% 左右；
- D. 系统采用负压收集技术，收集效果好，环境友好度高；
- E. 系统自动化程度高，稳定性好；
- F. 系统能耗低，综合经济效益可观。

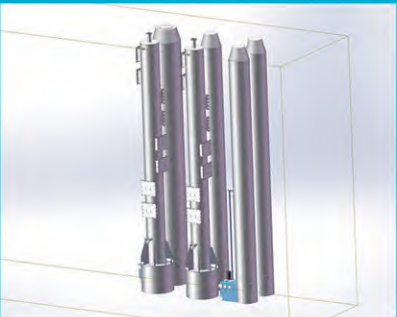
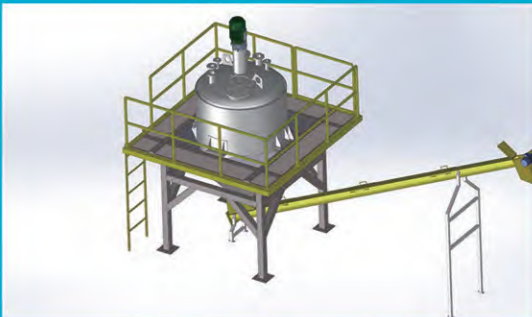
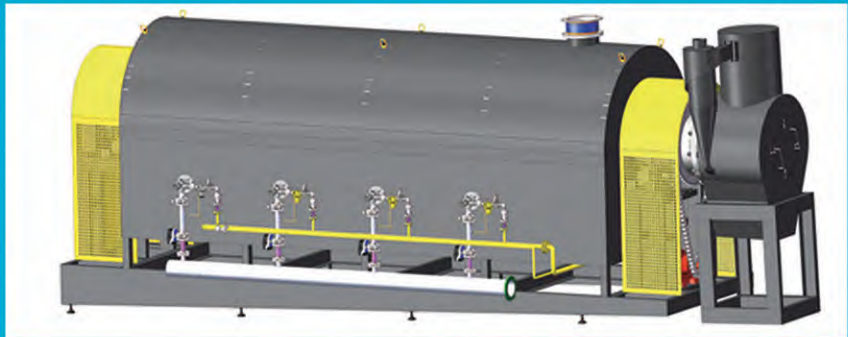
The zinc-containing sludge hydrochloric acid recycling system is a treatment system developed for batch hot-dip galvanized sludge acid containing zinc. Through the process of "evaporation crystallization + regeneration + combined absorption", the concentration of zinc in the sludge acid that can be treated is up to 20g/L.

This recycling system can convert zinc-containing sludge acid into 18% hydrochloric acid and ferric oxide solid, realizing recycling of acid, and recovering certain economic benefits. Meanwhile, it can avoid risks such as environment, control and joint liability for enterprises, thus promoting sustainable development of enterprises.

Characteristics of zinc-containing sludge hydrochloric acid recycling system:

- A. Zinc ion content in sludge hydrochloric acid that can be treated by the system is up to 20g/L;
- B. HCL recovery rate is high, up to 99%;
- C. All the acid recovered by the system can be used for production, and the acid concentration is about 18%;
- D. The system adopts negative pressure collection technology, with good collection effect and high environmental friendliness;
- E. High degree of automation and good stability;
- F. The system has low energy consumption and considerable comprehensive economic benefits.

► 3. 展示图片:
3. Picture presentation:



Pretreatment Management System

前处理管理系统



► 前处理管理系统由各类工艺槽、微负压封闭间、集中式泵站、喷淋洗涤塔等构成。工艺槽采用钢结构加特殊涂层处理结构,集中式泵站将根据系统需求对工艺槽进行自动调控。

► The pretreatment management system composes of various process tanks, negative micro-pressure enclosure, central pump station and scrubber. The process tanks are of steel structure with special coating treatment. The central pump station will automatically regulate the process tanks upon system demand.

优势 Advantage

- 全新结构设计及新型材料密封,使用寿命长,维护成本低
New structure design and sealed with new materials, featuring long service life and low maintenance cost
- 微负压-5 至0 pa 设计,保证酸雾不外漏,且运行成本低
Negative micro-pressure between -5 to 0 Pa to avoid the acid mist from escaping and with low operation cost

LCMG Galvanizing Fume Collection and Treatment System

锌烟收集及处理系统

锌烟集气罩

GALVANIZING FUME COLLECTION HOOD

侧进侧出式集气罩



端进侧出式集气罩



锌烟专用布袋除尘器

GALVANIZING FUME BAG FILTER





时间	温度	湿度	压力	流量	粉尘浓度	PM2.5	PM10
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LCMG锌烟收集处理系统, 是我公司通过对锌烟成份及其性质研究、结合实际热镀锌行业多年经验积累、针对热镀锌行业高粘超细粉尘研发出锌烟收集处理系统; 通过自动化技术的应用, 使得设备运行更可靠、更稳定、更智能。

Combined with many years of our experience in the HDG industry, the LCMG galvanizing fume collection and treatment system is specifically developed by our company based on the research on the characteristics of high viscosity and ultra-fine dust and the composition and properties of the galvanizing fume. With the application of the automatic technology, the operation of the system is more stable, reliable and intelligent.

主要设备有集气系统、锌烟脉冲除尘系统、自动控制系统等。根据生产线结构不同分为: 侧进侧出式集气罩、端进端出式集气罩和端进侧出式集气罩。

The main equipment includes the galvanizing fume pulse dust removal system, the galvanizing fume collection system, and the automatic control system. There are the side-in & side-out type hood, the end-in & end-out type hood and the end-in & side-out type hood according to the different types of production line arrangement.

LCMG锌烟处理系统

LCMG galvanizing fume treatment system

VS

传统型锌烟系统

Traditional galvanizing fume system

✓ 针对锌烟粉尘

Specific To Galvanizing Fume And Dust

强吸湿性、超细颗粒度 (<1um) 等特点
Has the features of strong absorption to moisture and ultra fine granularity (<1um)
针对性的选用最适宜锌烟除尘滤袋材质
Select the bag filter material optimal for galvanizing fume dust removal

✗ 只针对粉尘

Only Specific To Dust

没有专门针对锌烟特点, 进行特殊设计, 无法达到除尘效果
No special design aiming at the dust characteristics of galvanizing fume, the dust removal effect cannot be achieved

✓ 特殊设计

Specific Design

专用于高粘超细锌烟粉尘清灰装置, 清灰彻底, 避免产生“糊袋”现象
Exclusively used in high viscosity and ultra-fine galvanizing fume dust removal equipment, With thorough dust removal to avoid paste bag

✗ 容易产生“糊袋”问题、不易清理

Paste Bag Can Be Easily Produced, being Hard To Be Cleaned

非专门针对锌烟、锌灰的特点设计, 且“糊袋”后不易清理
The design is not specific to the dust characteristics of galvanizing fume and zinc ash, and the paste bag is hard to be cleaned

✓ 先进的自动化检测控制系统

Advanced automatic detection and control system

保证除尘系统可靠稳定运行
Ensure reliable and stable operation of dust removal system

✗ 系统运行不稳定

Unstable operation of the system

检测系统欠缺或者功能不全
Lack of detection system or incompetent functions

Integrated Furnace for Hot-Dip Galvanizing 一体化热浸镀锌炉

特点 Features

真正结合热镀锌生产进行能源自动化、智能化管理；
Having HDG production combined with automatic and intelligent management for energy.

高度自动化控制、节能降耗；
High automation control for energy saving and consumption reducing;

模块化设计、工厂预制，施工效率高；
优化设计、便于维护保养。
Modular design, factory fabrication, and high construction efficiency; optimized design and easy maintenance.



安全 Safe

- 1.1、泄漏报警：燃气泄漏、漏锌报警
Leakage Alarm: alarm for gas leakage and molten zinc seepage
- 1.2、压力报警：炉膛压力、天然气压力、空气压力异常报警
Pressure alarm on furnace pressure, NG pressure and abnormal air pressure
- 1.3、温度报警：锌液温度、炉膛温度、尾气温度异常报警
Temperature alarm: alarm for molten zinc, furnace temperature and abnormal tail gas temperature
- 1.4、基础防渗
Alarm on foundation seepage
- 1.5、点火失败报警
Alarm on ignition failure

运行控制按照镀锌工艺要求调整 Operation control adjustment upon galvanizing process requirement

- 3.1、熔锌工艺、退火工艺（温升曲线）
Zinc melting process and annealing process (temp rise curve)
- 3.2、生产工艺（锌液温度、加锌、捞渣）
Production process (temperature of molten zinc, liquid level, zinc adding, slag cleaning)
- 3.3、保温工艺（常规生产的间歇）
Heat insulation technology (interval of normal production)
- 3.4、停炉工艺（停炉与二次启动）
Furnace shut-down process (stop and second start-up)
- 3.5、漏锌应急程序，应急方案+尽早准确位置报警
Emergency procedure for molten zinc seepage, emergency plan and as early as possible accurate position alarm.

低耗 Low energy consumption

- 2.1、通过降低温度损失、合理排布烧嘴、降低出口尾气温度等实现燃气量的节能控制
To realize energy-saving control on fuel gas by reducing temperature loss and tail gas temperature at the exit and the reasonable configuration of burners
- 2.2、通过变频控制技术实现电耗的高效控制
High-efficiency control over electricity consumption by utilizing frequency conversion technology
- 2.3、通过工件规格、生产节拍与锌锅温度的合理匹配，实现锌耗控制最优化
To most optimize the zinc consumption by reasonable coordination between workpiece specs, production cycle time and galvanizing kettle temperature.

快速安装 Fast installation

- 4.1、通过模块化、一体化设计理念的应用，实现钢结构和管道、阀组、保温材料等的优化设计
To realize the optimized design of steel structure and pipeline, valve group and thermal insulation materials by utilizing the design concept of modularization and integration
- 4.2、通过工厂化制作的实现，质量保证的前提下，实现快速安装
To achieve fast installation by factory fabrication under the precondition of quality assurance

Integrated Treatment Equipment for Flux Regeneration
助镀剂再生处理一体化设备



优势 Advantage

- ▶ 无需人员值守, 实现自动化运行, 仅卸泥时需要人员辅助
Unattended and fully automatic operation, and labor only needed when mud discharging
- ▶ 正常运行后, 可保持助镀剂溶液中 Fe^{2+} 浓度在 1g/L 以下
The Fe^{2+} content within flux solution can be maintained below 1g/L when in normal operation
- ▶ 泥饼含水率低, 可直接装袋, 固废减量化
Low moisture content in mud cake, direct bagging, and solid waste decrement
- ▶ 设备集成化、模块化、一体化、占地面积小、美观且易于维护
Integrated, modularized and compact equipment with less land occupation and easy maintenance

Integrated and Automated Treatment Equipment for Rinsing Water
漂洗水自动化处理一体化设备



- ▶ 设计理念: 环保、再生利用、一体化、资源化、自动化
Design concept: environment protection, recycling, Integration, resource recovery and automation



优势 Advantage

- ▶ 高效催化氧化除铁功能, 实现连续运转, 自动曝气, 防止沉淀堆积
High-efficiency function of catalysis and oxidation ferrous removal, and continuous operation; automatic aeration to avoid sediment accumulation
- ▶ 日均水处理效率较普通工艺高50%以上
Water treatment efficiency per day is 50% more than the usual process
- ▶ 除含铁污泥外, 无废水排放
No waste water discharged, apart from ferrous sludge
- ▶ 泥饼含水率低, 可直接装袋, 固废减量化
Low moisture content in mud cake, direct bagging, and solid waste decrement
- ▶ 设备集成化、模块化、一体化、占地面积小、美观且易于维护
Integrated, modularized and compact equipment with less land occupation and easy maintenance
- ▶ 整机全自动运行, 仅卸泥时需要辅助
Fully automatic operation, and labor only needed when mud discharging

Core Technology
核心技术

基于热镀锌大数据的
智能制造

The intelligent manufacturing based
on the big data of HDG



- ▶ 瑞马智能紧随国际工业智能技术革命浪潮，依托沉浸于行业多年的热镀锌大数据，通过对数据分析、数据建模，围绕第一代“智能管理系统”，第二代“基于算法的工业学习系统”，第三代“完全靠算法支撑的自主柔性系统”，着眼于节能降耗、安全环保，持续研发投入，创新从未止步！
- ▶ RITMAN, relying on the industrial big data of the industry accumulated for years, follows closely with the wave of the technological revolution. By data analyzing and modeling as well as the first generation of “intelligent management system”, the second generation of “algorithm-based industrial learning system” and the third generation of “fully algorithm-supported flexible and autonomous system”, RITMAN has been focusing on energy-saving and cost-reducing, safety and environmental protection and will keep R&D investment and has never ceased its steps on innovation!

Core Competency
核心竞争力



环保数字化热浸锌生产线指标对比统计表
Statistical Table for Contrast of Production Line Indicators

	传统线	环保线	
产能	Capacity		+20%
锌耗	Zinc Consumption		-4.5%
电耗	Power Consumption		-33.3%
气耗	Gas Consumption		-10%
酸耗	Acid Consumption		-11.1%
氯化锌	Hydrogen Chloride		-100%
废酸	Waste Acid		-13.6%
固废	Solid Waste		-57.2%
废水	Waste Water		-55.6%

Projects
项目案例

新线建设
Construction of New HDG Line

浙江鸿顺实业有限公司
年产8万吨新型环保数字化热镀锌生产线
建设项目

Construction project of new type environmental
protection digitalized HDG production line with an
annual output of 80 thousand tons for Zhejiang
Hongshun Industry Co., Ltd.

徐州瑞马科宝金属制品有限公司
年产6万吨新型环保数字化热镀锌生产线
建设项目

Construction project of new type environmental
protection digitalized HDG production line with an
annual output of 60 thousand tons for Xuzhou
Remarkable Metal Product Co., Ltd.

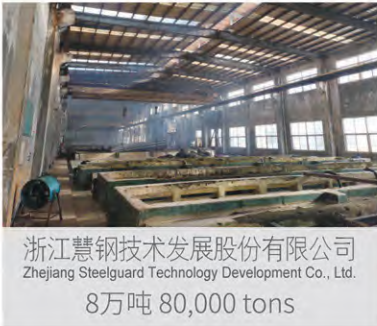
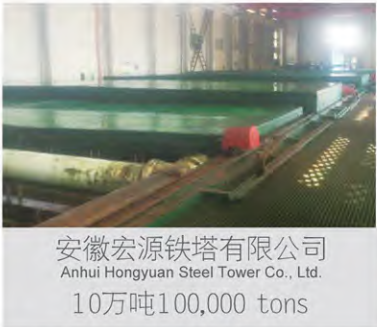
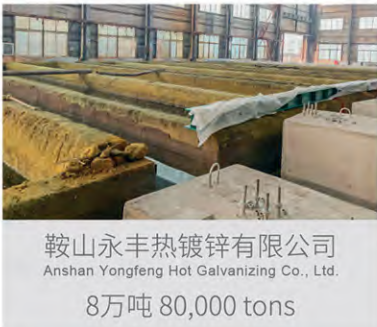
青岛永祥和环保科技有限公司
年产10万吨新型环保数字化热镀锌生产线
建设项目

Construction project of new type environmental
protection digitalized HDG production line with an
annual output of 100 thousand tons for Qingdao
Yongxianghe Environmental Protection
Technology Co., Ltd.

徐州瑞马科宝金属制品有限公司
年产6万吨侧进端出式脚手架热镀锌专用生产线
建设项目

Construction project of Side-in-to-End-out HDG
production line for scaffold, with an Annual output
of 60 thousand tons for Xuzhou Remarkable Metal
Product Co., Ltd

传统线改造
Reconstruction of Traditional HDG Line



Events
国际交流

- ▶ 瑞马智能深度参与国际交流,持续支持国际锌协组织,连续三届成为其大会共同主办方;多次出访欧美、东南亚等地区,深入学习、交流热镀锌生产技术。
- ▶ RITMAN has a deep involvement in international exchanges. With our support to IZA as always, we, as a co-sponsor, have consecutively participated in three conferences organized by IZA. We have paid many visits to Europe and America and Southeast Asia for exchanging the production technology of hot-dip galvanizing.



欧洲客户



泰国Chue Chin Hua公司



日本拉斯派特株式会社



国际锌协协会主席



瑞马赞助国际会议



日本拉斯派特株式会社

我们的能力
OUR ABILITY

