

精翔机电 匠心筑梦 引领时代

Jingxiang Machinery Electric, ingenuity builds dreams, leads the times.



潍坊精翔机电设备有限公司

Weifang Jingxiang Machinery Electric Equipment Co., Ltd.

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JING XIANG
MACHINERY ELECTRIC
精 | 翔 | 机 | 电

METAL STRIP PROCESSING SOLUTION

数智化金属薄板设备一站式制造商



潍坊精翔机电设备有限公司

WEIFANG JINGXIANG MACHINERY ELECTRIC EQUIPMENT CO., LTD.



JINGXIANG

Believe in the Power of Brand

—— 精翔机电 —— 相信品牌的力量 ——



技术精湛
Superb Technology



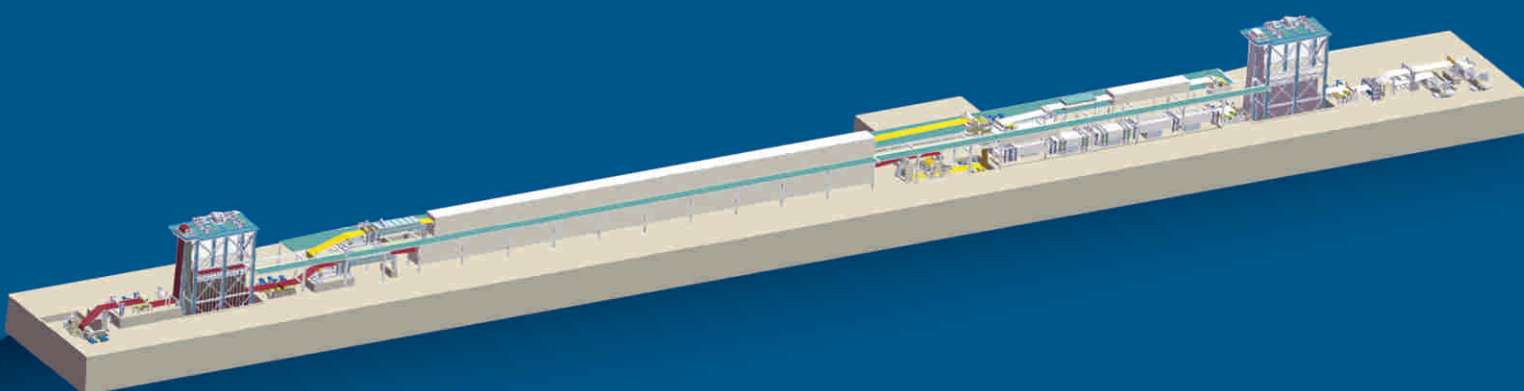
品质保证
Quality Guarantee



售后保障
After-sales Service

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企业简介

COMPANY PROFILE



36000⁺

平方米

占地面积 Land area

30条⁺

生产线

年交付能力 Annual output capacity

EPC

采用EPC工程总承包模式，为客户提供贯穿项目全链路的定制化交钥匙解决方案
 Adopts the EPC (engineering, procurement, construction) contracting model, delivering customized turnkey solutions spanning the entire project life cycle.

潍坊精翔集团是一家专业从事金属薄板表面处理生产线研发、设计与制造的高新技术企业，坐落于山东省临朐县凤凰山工业园，厂区面积超36000平方米，拥有现代化数控加工、铆焊、组装等多功能车间。

公司现有员工200余人，其中研发与技术骨干近50人，配备各类大型剪、切、磨、钻等先进机床设备，具备从设计到制造、安装调试的全流程服务能力，年交付生产线30条以上。

精翔坚持技术创新，拥有53项国家知识产权，含45项实用新型专利、6项发明专利及2项软件著作权，并荣获“高新技术企业”“省级专精特新企业”等多项资质认证。

未来，精翔集团将继续以技术为核心、市场为导向，为客户提供高性能、高稳定性的整体解决方案，致力于成为金属薄板表面处理装备领域的领先者。

Weifang Jingxiang Group is a high-tech enterprise specializing in the R&D, design and manufacturing of metal strip surface treatment production lines. Located in Fenghuangshan Industrial Park, Linqu County, Shandong Province, the company operates from a facility spanning over 36,000 square meters, featuring modern multi-functional workshops including CNC machining, riveting and welding, and assembly.

The company employs over 200 staff, with nearly 50 comprising R&D and technical experts. Equipped with a range of advanced large-scale cutting, shearing, grinding, and drilling machinery, Jingxiang provides turnkey services from design and manufacturing to installation and commissioning. Its annual production capacity exceeds 30 complete production lines.

Committed to technological innovation, Jingxiang holds 53 national intellectual property rights, including 45 utility model patents, 6 invention patents, and 2 software copyrights. It has also earned multiple certifications, such as "High-Tech Enterprise" and "Provincial Specialized and Innovative SME."

Looking ahead, Jingxiang Group will continue to prioritize technology and market orientation, delivering high-performance and reliable integrated solutions to its clients, with the goal of becoming a leader in the metal sheet surface treatment equipment industry.



企业文化

Company Culture



愿景
Vision

打造全球金属薄板设备高端品牌
Become the Global Premium Brand in Metal Sheet Equipment

使命
Mission

为员工创建平台、为客户创新财富、为社会创造价值
Creating Platforms for Employees
Generating Wealth for Clients and Delivering Value to Society

宗旨
Principle

诚信为本、品质为先、稳步发展、合作共赢
Integrity • Quality • Sustainable Growth • Mutual Success

理念
Philosophy

创新、环保、严谨、领先
Innovation • Sustainability • Precision • Leadership

策略
Strategy

开放、共享、超越、协调
Openness • Collaboration • Excellence • Synergy

国家知识产权
National Intellectual Property Rights



2 软件著作 Software Copyrights

客户来访

Customer Visit



品牌战略合作伙伴

Strategic Partners

16⁺

外贸出口国家
Export Countries



我们的业绩

Our Performance

400+

合作企业

2018

"北京钢研新冶工程设计有限公司
Beijing CISRI Co., Ltd."
"苏州多彩铝业有限公司
Suzhou Dodo Aluminum Co.,Ltd."
"肯尼亚ROYAL MABATI公司
ROYAL MABATI KENYA"
"浙江杭州富源华彩钢有限公司
Zhejiang Fuyuanhua Color Steel Co.,Ltd."
"浙江天女彩钢有限公司
Zhejiang Tiannu Color Steel Co.,Ltd."
"河北速乐新材料科技有限公司
Hebei Sule New Materials Technology Co.,Ltd."
"山东汉狮研磨材料有限公司
Shandong Hanshi Milling Materials Co.,Ltd."
"山东永光新材料科技有限公司Shandong
Yongguang New Materials Technology Co.,Ltd."
"江阴梁诚金属涂层有限公司
Jiangyin Liangchen Metal Coating Co.,Ltd."
"越南 NAM HUNG 公司
Nam Hung Vietnam"
"山东润发精密薄板有限公司
Shandong Runfa Precision Sheet Co.,Ltd."
"山东滨州金大成工贸有限公司
Shandong Jindacheng Industry&Trade Co.,Ltd."

2019

"潍坊信泰消防科技有限公司
Weifang Xintai Fire-fighting Technology Co.,Ltd."
"杭州环宸国际贸易有限公司
Hangzhou Huanchen International Trade Co.,Ltd."
"浙江华达新材料股份有限公司
Zhejiang Huada New Materials INC"
"迪拜Rhino Steel公司
Dubai Rhino Steel company"
"孟加拉Alif公司
Bangladesh Alif Company"
"浙江华达新材料股份有限公司
Zhejiang Huada New Materials INC"
"北京钢研新冶工程设计有限公司
Beijing CISRI Co., Ltd."

2020

"山东汉狮研磨材料有限公司
Shandong Hanshi Milling Materials Co.,Ltd."
"山东滨州金大成工贸有限公司
Shandong Jindacheng Industrey&Trade Co.,Ltd."
"山东方兴建筑材料有限公司
Shandong Fangxing Building Materials Co.,Ltd."

2020

"杭州华达板业有限公司
Zhejiang Huada Sheet Co.,Ltd."
"荆州市恒宇建材股份有限公司
Jingzhou Hengyu New Materials INC."
"山西利国磁性材料有限公司
Shanxi Ligu Magnetic Materials Co.,Ltd."
"山东中金板业有限公司
Shandong Zhongjin Sheet Co.,Ltd."
"邹平正伟铝业科技有限公司
Zouping Zhengwei Aluminum Technology Co.,Ltd."
"山东博丰新材料有限公司
Shandong Bofeng New Materials Co.,Ltd."
"鞍山泰格金属制品有限公司
Anshan Taige Metal Materials Co.,Ltd."
"鲁彩（山东）新材料科技有限公司 Lucai(Shandong)
New Materials Technology Co.,Ltd."
"山东博纳金板业有限公司
Shandong Bonajin Sheet Co.,Ltd. "
"山东瀚发精密薄板有限公司
Shandong Hanfa Precision Sheet Co.,Ltd."
"山东鑫双汇精密薄板有限公司
Shandong Xinshuanghui Precision Sheet Co.,Ltd."
"山东源广顺新型材料科技有限公司
Shandong Yuanguangshun New Material Science
and Technology Co.,Ltd."
"浙江龙游佳利环保设备有限公司
Zhejiang Longyou Jiali Environmental Protection
Equipment Co.,LTD."
"河北速乐新材料科技有限公司
Hebei Sule New Materials Technology Co.,Ltd."
"山东滨州金大成工贸有限公司
Shandong Jindacheng Industry&Trade Co.,Ltd."
"山东博纳金板业有限公司
Shandong Bonajin Sheet Co.,Ltd."
"山东瀚发精密薄板有限公司
Shandong Hanfa Precision Sheet Co.,Ltd."
"山东鑫双汇精密薄板有限公司
Shandong Xinshuanghui Precision Sheet Co.,Ltd."
"山东爱普瑞新材料有限公司
Shandong Aiprui New Materials Co., Ltd."

2021

"山东翼海板业有限公司
Shandong Yihai Sheet Co.,Ltd."
"北京钢研新冶工程设计有限公司
Beijing CISRI Co., Ltd."
"青岛河钢复合新材料科技有限公司 （海尔集团）
Qingdao Hegang New Composite Materials
Technology Co.,Ltd.(Haier Group)"

2021

"阿尔及利亚SATEREX EURL公司
SATEREX EURL ALGERIE"
"珠海拾比佰新型材料有限公司
Zhuhai Speedbird New Material Co.,Ltd."
"山东蓝天新材料科技有限公司
Shandong Lantian New Material Science&
Technology Co.,Ltd."
"山东翼海板业有限公司
Shandong Yihai Sheet Co.,Ltd."
"山东万鑫新型材料有限公司
Shandong Wanxin New Materials Co., Ltd."

2022

"浙江铭岛新材料股份有限公司
Zhejiang Mingdao New Material Co.,Ltd."
"山东圣士达机械科技股份有限公司
Shandong Shengshida Machinery
Technology INC."
"浙江华达新材料股份有限公司
Zhejiang Huada New Material Co.,Ltd."
"格美新材料有限公司
Gemei New Material Co.,Ltd."
"江苏丽岛新材料股份有限公司
Jiangsu Lidao New Material Co.,Ltd."
"孟加拉2线
KARNAFULLY STEEL MILLS LTD. "
"山东沃丰新材料有限公司
Shandong Wofeng New Material Co.,Ltd."
"芜湖拾比佰新型材料有限公司 （五线CCL 5#)
Wuhu Speedbird New Material Co.,Ltd. "
"河北省故城县衡岳动力科技有限公司
Gucheng Hengyue Power Science&
Technology Co.,Ltd."
"墙煌新材料股份有限公司
Qianghuang New Material Co.,Ltd."
"安徽标兵实业有限公司
Anhui Biaobing Industry Co.,Ltd."
"江苏大力神科技股份有限公司 Jiangsu
Dalishen Science&Technology Co.,Ltd."
"肇庆丽岛新材料科技有限公司 Zhaoqing
Lidao New Material Science&Technology
Co.,Ltd."
"邹平正伟铝业有限公司
Zouping Zhengwei Aluminum Industry Co.,Ltd."
"海安华诚新材料有限公司
Haian Huacheng New Material Co.,Ltd."
"重庆万达薄板有限公司
Chongqing Wanda Steel sheet Co.,Ltd."
"山东金五福新型材料有限公司
Shandong Jinwufu New Material Co.,Ltd."
"山东汉宸新材料科技有限公司
Shandong Hanchen New Material Science&
Technology Co.,Ltd."
"江苏大力神科技股份有限公司（二线）
Jiangsu Dalishen Science&Technology Co.,
Ltd.(CCL 2#)"
"博兴县华冶新材料股份有限公司
Boxing Huaye New Materials Co., Ltd."

2023

"江苏大力神科技股份有限公司(三线)
Jiangsu Dalishen Science&Technology Co.,Ltd.
(CCL 3#)"
"山东万昊金属科技集团有限公司
Shandong Wanhao Metal Science&Technology
Co.,Ltd."
"神龙集团（0.15-0.6 线速240m）两条
Shenlong Group (0.15-0.6/240mpm) Two Lines"
"神龙集团（0.2-0.8 线速200m）两条
Shenlong Group (0.2-0.8/200mpm) Two Lines"
"俄罗斯卡玛集团家电板（二线）
Russia KAMA Group"
"俄罗斯MPZ集团（彩涂板生产线）
Russia MPZ Group"
"伊朗60MPM彩钢线
Iran ARSH SETAREH STEEL GROUP"
"山东烨辉涂镀钢板有限公司
Shandong Yehui Coating Steel Sheet Co.,Ltd."
"金城集团进出口有限公司
Jincheng Group Import and Export Co., Ltd."
"福建新港湾造船有限公司
Fujian New Harbour Shipbuilding Co., Ltd."
"山东博文新材料科技有限公司 Shandong Bowen
New Material Technology Co., Ltd."
"优尔屋面科技（苏州）有限公司
Ure Roofing Technology (Suzhou) Co., Ltd."
"福建腾卓投资集团有限公司
Fujian Tengzhuo Investment Group Co., Ltd."
"攀华综合钢铁有限公司
Pan-Hua Integrated Iron and Steel Co., Ltd."
"浙江泽坦进出口有限公司
Zhejiang Zetan Import and Export Co., Ltd."
"云南佳诚新型材料有限公司（二线）
Shandong Huajie New Materials Co., Ltd."
"山东华杰新型材料有限公司
Shandong Huajie New Materials Co., Ltd."
"山东万鑫新型材料有限公司
Shandong Wanxin New Materials Co., Ltd."
"山东尚品新型材料有限公司
Shandong Shangpin New Materials Co., Ltd."
"山东双鼎新型材料有限公司
Shandong Shuangding New Materials Co., Ltd."

2024

"俄罗斯BILDEX公司
Russia's BILDEX Company"
"印度BRAKE公司
India's BRAKE Company"
"阿联酋DANA公司
UAE's DANA Company"
"浙江泽坦进出口有限公司
Zhejiang Zetan Import and Export Co., Ltd."
"新疆神龙新材料科技有限公司
Xinjiang Shenlong New Material Technology Co., Ltd."
"重庆神龙腾达新材料有限公司
Chongqing Shenlong Tengda New Material Co., Ltd."
"芜湖拾比佰新型材料有限公司（六线）
Wuhu Speedbird New Material Co., Ltd. (CCL 6#)"
"重庆三复云进出口贸易有限公司
Chongqing Sanfuyun Import and Export Trading Co., Ltd."

2024

"江苏大力神科技股份有限公司
Jiangsu Dalishen Technology Co., Ltd."
"山东京博控股集团有限公司京泰再生资源分公司
Shandong Jingbo Holding Group Co., Ltd. Jingtai Renewable
Resources Branch"
"佛山市南海铭德材料科技有限公司
Foshan Nanhai Mingde Material Technology Co., Ltd."
"青岛河钢复合新材料科技有限公司
Qingdao Hegang Composite New Material Technology Co., Ltd."
"青岛森诺钢铁有限公司 Qingdao Sennuo Iron and Steel Co., Ltd."
"浙江永鑫科技股份有限公司 Zhejiang Yongxin Technology Co., Ltd."
"山东昱彩新材料有限公司 Shandong Yucai New Material Co., Ltd."
"杭州环宸国际贸易有限公司
Hangzhou Huanchen International Trade Co., Ltd."
"武汉新锶唯技术有限公司 Wuhan Xinsiwei Technology Co., Ltd."
"苏州高疆建筑材料有限公司
Suzhou Gaojiang Building Materials Co., Ltd."
"辛集市宝港新材料科技有限公司
Xinji Baogang New Material Technology Co., Ltd."
"山东博瑞新材料有限公司
Shandong Borui New Materials Co., Ltd."
"山东宏盛达新材料有限公司
Shandong Hongshengda New Materials Co., Ltd."
"泰博新材料有限公司 Taibo New Materials Co., Ltd."
"河北蓝天钢板有限公司 Hebei Lantian Steel Plate Co., Ltd."
"山东万泰新材料有限公司 Shandong Wantai New Materials Co., Ltd."
"山东烨辉涂镀钢板有限公司 Shandong Yehui Coated Steel Plate Co., Ltd. "

2025

"孟加拉KARNAFULLY钢铁厂 Bangladesh,Karnaphuli Steel Mill"
"坦桑尼亚COA公司 COA Company, Tanzania"
"伊朗 ASSG 公司 ASSG Company, Iran"
"齐益新材料科技（山东）有限公司（一线）
"Qi Yi New Materials Technology (Shandong) Co., Ltd.(CCL 1#)"
"齐盈新材料科技（山东）有限公司
Qi Ying New Materials Technology (Shandong) Co., Ltd."
"安徽攀华新材料有限公司
Anhui Panhua New Materials Co., Ltd."
"张家港攀华薄板有限公司 Panhua Group Co., Ltd."
"连云港星驰新材料有限公司
Lianyungang Xingchi New Materials Co., Ltd."
"山东虹界材料科技有限公司
Shandong Hongjie Materials Technology Co., Ltd."
"瑞士 IQDEMY SA Swiss IQDEMY SA"
"土耳其ANADOLU 公司（彩涂板生产线） Turkey Anadolu Company"
"印度MAS公司（缝合机组设备） India MAS Company"
"印度GODAWARI公司（彩涂印花生产线一条） India Godawari Company"
"山东泓泰金属科技有限公司
Shandong Hongtai Metal Technology Co., Ltd. (Zhuzhan)"
"齐益新材料科技（山东）有限公司（二线）
Qi Yi New Materials Technology (Shandong) Co., Ltd. (CCL 2#)"
"珠海拾比佰新型材料有限公司（八线）
Zhuhai Speedbird PVC Film Laminated Metal Sheet Co., Ltd. (CCL 8#)"
"广西创新铝业有限公司 Guangxi Chuangxin Aluminum Industry Co., Ltd."
"山东京宏智能科技有限公司 Shandong Jinghong Intelligent Technology
Co., Ltd."
"山东恩光新材料有限公司 Shandong Enguang New Materials Co., Ltd."
"米特赫达（山东）金属科技有限公司
Miteheda (Shandong) Metal Technology Co., Ltd."
山东博亚新材料有限公司 Shandong Boya New Materials Co., Ltd.
山东宏昌新材料有限公司 Shandong Hongchang New Materials Co., Ltd.
山东佳诚钢板有限公司 Shandong Jiacheng Steel Plate Co., Ltd.
山东泰博新材料有限公司（二线）Shandong Taibo New Materials Co., Ltd.
山东万泰新材料有限公司 Shandong Wantai New Materials Co., Ltd.

我们的核心竞争力

Our Core Competence

可加工处理原材料种类

Raw Materials



热板、冷板、镀锌/镀铝锌板、铝板、铜板、不锈钢板等各类金属薄板。
HRC, CRC, GI, GL, aluminum coil, copper coil, stainless steel coil and other kinds of metal strip.

适用能源种类

Energy Types



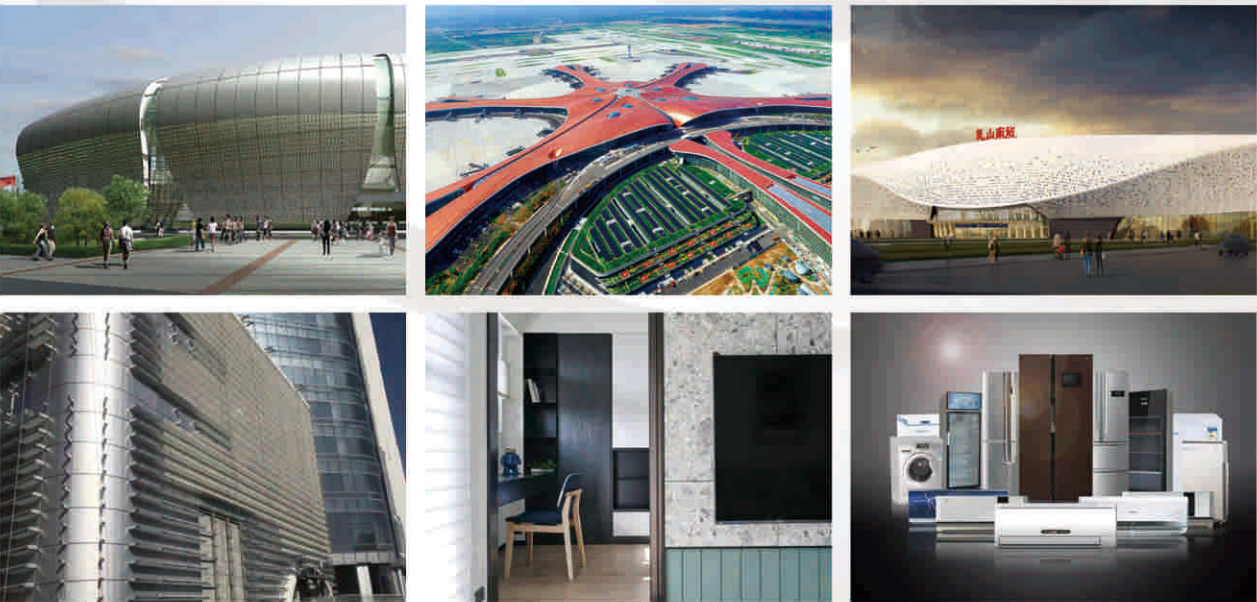
水、电、天然气、液化气、煤气、重油。
Water, electricity, natural gas, LPG, coal gas, heavy oil.

设备参数 Equipment parameters	镀锌/镀铝锌线 GI/GL LINE	彩钢线 COLOR COATING LINE FOR STEEL	彩铝线 COLOR COATING LINE FOR ALUMINUM
板材宽度 Strip width	max 1650mm	max 1650mm	max 2680mm
板材厚度 Strip thickness	max 5mm	max 2mm	max 3.5mm
线速度 Line speed	max 300m/min	max 240m/min	max 150m/min

吨钢能耗：天然气消耗量低至4立方米/吨，VOCS非甲烷总烃小于30MG
Energy Consumption per Ton of Steel: Natural Gas Consumption $\leq 4\text{ m}^3$, VOC Emissions $< 30\text{ mg}$

成品应用

Product Application



建筑用板：车间、机场、高铁站、楼房等各类内外墙板及保温板。
Construction: internal and exterior wall panels and insulation panels for various applications including workshops, airports, high-speed rail stations, and buildings.

装饰：工装、家装等各类装饰用板
Decoration: industrial decoration, home decoration and other kinds of decoration panel.

家电外壳：冰箱、洗衣机、小家电等
Appliance housing: refrigerator, washing machine, small appliances and more.

我们的核心生产力

Our Core Productivity



设备中心 Processing equipment



成品中心 Finished product warehouse



研发中心 R&D center



服务中心 Service center



连续镀锌(铝、镁)生产线

热镀锌/镀铝锌/镀铝锌镁，是在带钢表面通过热浸镀方式覆盖一层锌或铝锌、铝镁合金，具有极强的阴极保护性。

镀锌板(GI钢板)因其良好的防腐蚀性已经广泛用于家电、装饰、广告和民用等行业，尤其以家电行业（空调室外机、冰箱外板、洗衣机面板、电脑机箱、微波炉等）和彩涂基板需求很大。

热镀铝锌硅钢板(GL 钢板)，是在钢板的表面热镀铝(Al 55%)、锌(Zn 43.5%)、硅(Si 1.5%)合金的钢板。它是钢基复合材料，具有优良的耐腐蚀性能。热镀铝锌合金钢板既具备了镀铝钢板优良的耐大气腐蚀性和耐热抗氧化性，又具备了镀锌钢板优良的电化学保护性。

热镀锌铝镁钢板(Zn-Al-Mg钢板)，在镀锌和镀铝锌液成分中加入镁(0.5%-3%)，具有比GI和GL更好的耐腐蚀性能、具有断口自修复性能、耐刮痕性，广泛应用到汽车、家电、建筑结构、管廊桥架、畜牧设施、光伏支架、建筑板材等领域。



原料 RAW MATERIALS	冷轧低碳钢SPCC、SPCD，酸洗后热轧低碳钢卷，无油或少涂油 Cold-rolled low-carbon steel SPCC, SPCD, pickled hot-rolled low-carbon steel coil, oil-free or lightly oiled
厚度 Thickness	800-1650mm
宽度 Width	0.11-5.0mm
线速度 process speed	max 300m/min
年产量 annual output	100,000 - 300,000 tons
连续退火炉 annealing furnace	NOF+辐射管加热RTF，全辐射管加热（RTF），立式、卧式或L型炉 NOF + radiant tube heating RTF, full radiant tube heating (RTF), vertical, horizontal or L-type furnace

Continuous Hot Dip Galvanizing (GI, GL, ZAM) Line

Hot dip galvanizing (GI, GL, ZAM) Line is the technology to dip the pretreated original plate of carbon steel into melted liquefied zinc to obtain a protective zinc coating.

Due to its good anticorrosion performance, galvanized steel plate (GI) is vastly applied into the industries of home appliance, decoration, advertisement, and civil construction, etc. Particularly, the home appliance industry (outer shell of air conditioner, outer plate of refrigerator, outer shell of washing machine, computer, and microwave oven, etc) and color coated plate has large demands on galvanized plate.

Hot dip aluminum zinc silicon steel plate - Galvalume (Referred to GL steel plate), is steel plate to hot dip aluminum (Al 55%), zinc (Zn 43.5%), silicon (Si 1.5%) alloy on the surface of the steel plate. It is a steel matrix composite. It had excellent corrosion resistance. Hot aluminum zinc alloy steel plate possesses both the excellent atmospheric corrosion resistance and the thermal oxidation resistance of the aluminized steel plate, and the excellent electrochemical protection of the galvanized steel plate.

Hot dip galvanized Zn-Al-Mg steel plate, with the addition of magnesium (0.5%~3%) in the zinc plating and aluminum zinc plating solution, has better corrosion resistance, fracture self-healing performance, and scratch resistance than GI and GL. It is widely used in fields such as automobiles, home appliances, building structures, pipe racks and bridges, livestock facilities, photovoltaic brackets, and building panels.





彩涂线

彩涂线，是把金属板经过表面脱脂、清洗、化学处理后，以连续辊涂的方法在其表面涂敷多层有机涂料(如 PE, SMP, HDP, PVDF等)从而复合形成新型功能性板材的成套生产设备，也可增加拉矫、印刷、热覆膜等功能。

彩涂板具有耐腐蚀性、装饰性等功能，可直接给建筑业、汽车制造业、家电业等提供原材料。



	彩钢线 color coating line for steel	彩铝线 color coating line for aluminum
板材宽度 Strip width	max 1650mm	max 2680mm
板材厚度 Strip thickness	max 2.0mm	max 3.5mm
线速度 Line speed	max 240m/min	max 150m/min
功能 Function	矫直机、拉矫机、印花机、热覆膜机、压花机 Straightening, tension leveling, printing, hot film laminating, embossing	

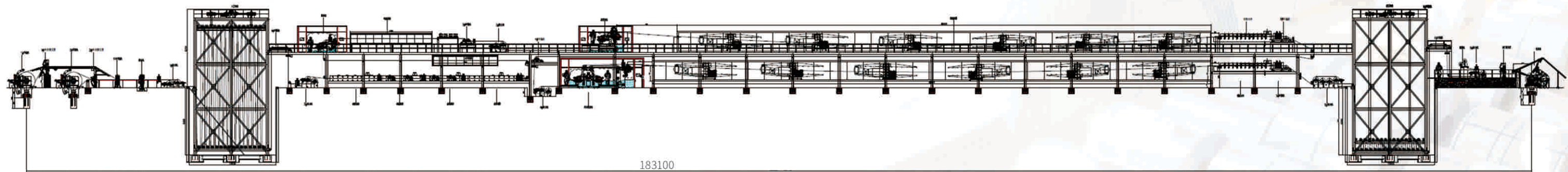


Color Coating Line

The color coating line is a complete set of production equipment that processes metal strip through surface degreasing, cleaning, and chemical treatment, followed by continuously applying multiple layers of organic coatings (such as PE, SMP, HDP, PVDF, etc.) via roller coating to form new functional composite sheets. Additional functions such as leveling, printing, and thermal laminating can also be integrated. Color-coated sheets have functions such as corrosion resistance and decorative properties, and can directly provide raw materials for the construction industry, home manufacturing industry, automotive appliance industry, etc.

双涂双烘生产线

Double Coating Double Baking Production Line



工艺流程

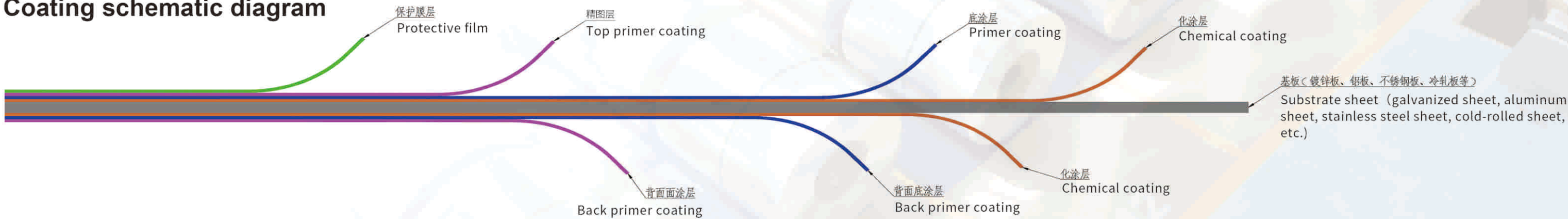
Technical process

上卷→ 开卷→ 夹送→ 入口剪 → 缝合机→ 1#张力机→入口活套→ 1#纠偏机→ 2#张力机 →脱脂 → 水汽烘箱 →钝化→ 钝化烘箱 → 2#纠偏机→ 3#张力机→ 初涂→ 初涂烘箱→ 水冷装置→ 3#纠偏机→ 4#纠偏机→ 4#张力机→ 精涂→ 精涂烘箱→ 水冷装置 →5#纠偏机→ 5#张力机→ 出口活套→ 6#纠偏机→检查台→ 保护膜覆膜机→6#张力机→出口剪→ 收卷 →下卷

Loading coil→Uncoiling→Pinching→ Entry shear → Stitching→ 1# tension roller →Entry looper→ 1# CPC→ 2# tension roller →Degreasing→ Moisture oven →Passivating→ Passivating oven→ 2# CPC→ 3# tension roller→ Prime coating→ Prime coating oven → Water cooling device→ 3# CPC→ 4# CPC→ 4# tension roller→Finish coating→ Finish coating oven→ Water cooling device →5# CPC→ 5# tension roller→ Exit looper→ 6# CPC→Inspecting table→ Protective film laminating→6# tension roller→Exit shear → Recoiling →Unloading coil

涂层示意

Coating schematic diagram



产品应用

Product application

大批量建筑级板材等 Large quantities of building grade plate, etc.
食品级包装材料等 Food grade packaging materials, etc.



家电板生产线

VCM Home Appliance Sheet Color Coating Line

家电板（也叫VCM覆膜板）是指在金属表面复合PVC、PET等高分子薄膜，并使其牢固结合的一种新型复合材料，既具备了金属材料良好的强度及加工性能，同时也具备了PVC、PET等高分子薄膜优异的装饰性能、耐腐蚀性能、耐候性能、易清洁等特性。

Appliance sheet (or VCM Laminated Sheet) refers to a new type of composite material formed by firmly bonding a high-polymer film, such as PVC, PET, onto a metal surface. It combines the excellent strength and workability of the metal substrate with the superior decorative qualities, corrosion resistance, weather resistance, and easy-clean properties of the PVC, PET film.



可实现印刷工艺膜



粉末静电喷涂生产线

Continuous Powder Spraying Coating Line

连续粉末喷涂生产线，是从单件喷涂转向连续喷涂的新工艺，产品漆膜厚可达单次喷涂100um以上，成膜均匀，产品耐候性高，是高耐候产品的一种选择。粉末喷涂生产线，无VOCs排放，无污染、成本低等优势。粉末喷涂生产线主要由上下料输送系统、前处理、喷粉系统、粉末回收系统、固化烘干部份以及自动化控制部分组成。

This advanced process shifts from batch to continuous spraying, offering:

- Superior Finish: Achieves a uniform, high-build film over 100um in one pass, ensuring exceptional weather resistance for durable products.
- Eco-Efficient: Features zero VOC emissions, is pollution-free, and operates at low cost.
- Integrated System: Comprises an automated conveyor, pre-treatment, powder application & recovery systems, curing oven, and centralized controls.

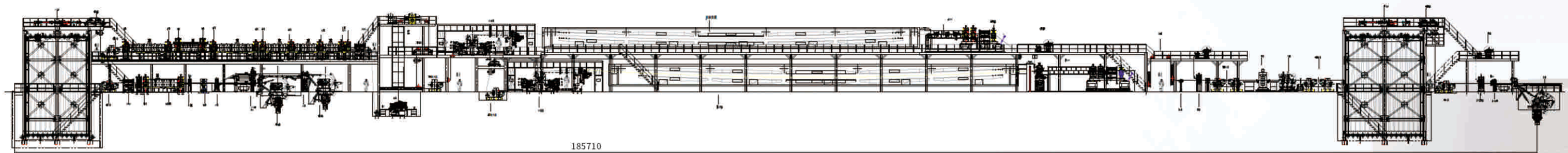
连续喷涂工艺产品漆膜厚可达单次喷涂

100um以上



双涂双烘高端家电板生产线

Double Coating Double Baking High-end Home Appliance Sheet Production Line

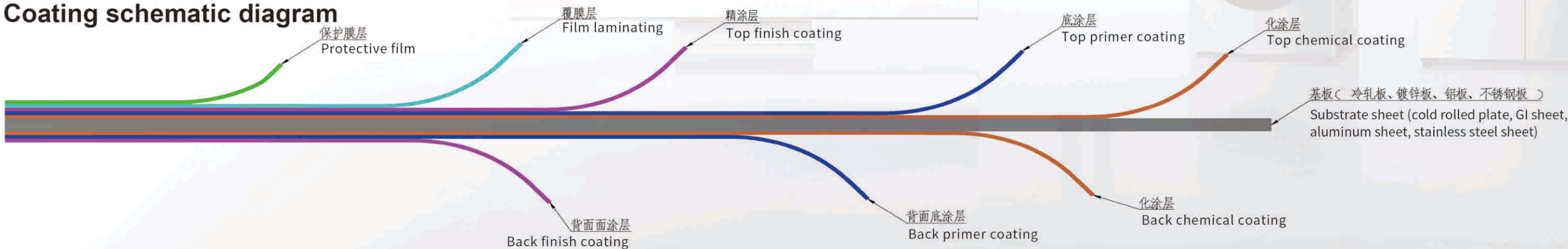


工艺流程 Technical process

上卷→开卷→夹送→入口剪→汇合夹送→缝合机→毛刺机→预处理→1#张力机→入口活套→1#纠偏机→2#张力机→脱脂→热风吹扫→钝化机→钝化烘箱→风冷装置→2#纠偏机→3#张力机→双头初涂机→初涂烘箱→风冷装置→3#纠偏机→4#张力机→4#纠偏机→双头精涂机→精涂烘箱→热覆膜机→水冷装置→5#纠偏机→5#张力机→压花机→拉矫机→6#张力机→出口活套→6#纠偏机→7#张力机→保护膜覆膜机→出口液压剪→卷取→下卷

Loading coil→Uncoiling→Pinching→Entry shear→Confluence pinching→Stitcher→Deburring machine→Pretreatment→1# tension roller→Entry looper→1# CPC→2# tension roller→Degreasing→Hot air purging→Passivating machine→Passivating oven→Air cooling device→2# CPC→3# tension roller→Double-head prime coater→Prime coating oven→Air cooling device→3# CPC→4# tension roller→4# CPC→Double-head finish coater→Finish coating oven→Hot film laminating machine→Water cooling device→5# CPC→5# tension roller→Embossing machine→Tension leveler→6# tension roller→Exit looper→6# CPC→7# tension roller→Protective film laminating machine→Exit hydraulic shear→Recoiling→Unloading coil

涂层示意 Coating schematic diagram

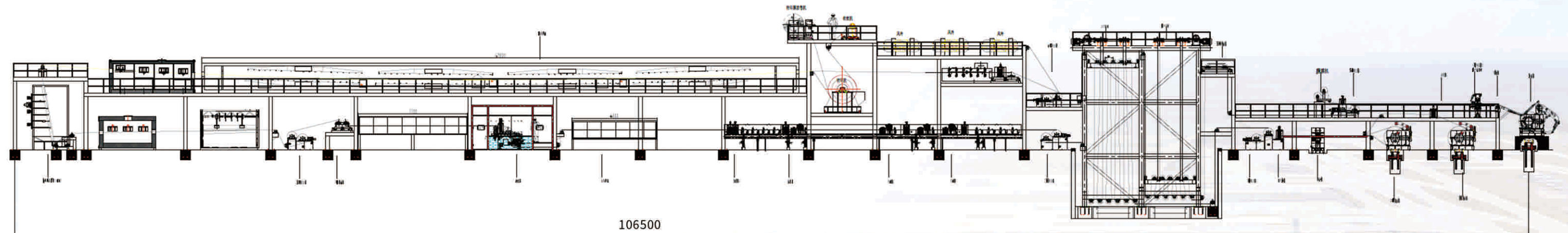


产品应用 Product application

高端家电板等 High-end home appliance sheet, etc.

连续粉末喷涂生产线

Continuous Powder Spraying Sheet Production Line



工艺流程

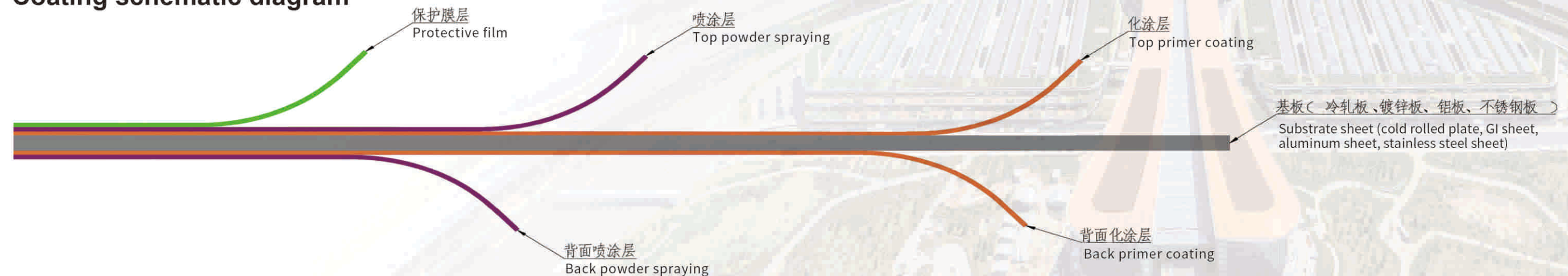
Technical process

上卷→开卷→缝合→1#张力机→入口活套→2#张力机→脱脂→热风烘干→钝化处理→钝化烘干→1#双辊纠偏机→3#张力机→背面喷涂→正面喷涂→固化烘干→热转印装置→水冷装置→2#冷却纠偏机→4#张力机→出口活套→3#纠偏机→保护膜覆膜机→5#张力机→分切→卷取→卸卷→包装

Loading coil→Uncoiling→Stitching→1# tension roller→Entry looper→2# tension roller→Degreasing→Hot air drying→Passivating→Passivating oven→1# double-roller CPC→3# tension roller→Back spraying→Top spraying→Curing drying→Heat transfer printing device→Water cooling device→2# cooling CPC→4# tension roller→Exit looper→3# CPC→Protective film laminating machine→5# tension roller→Cutting→Recoiling→Unloading coil→Packaging

涂层示意

Coating schematic diagram



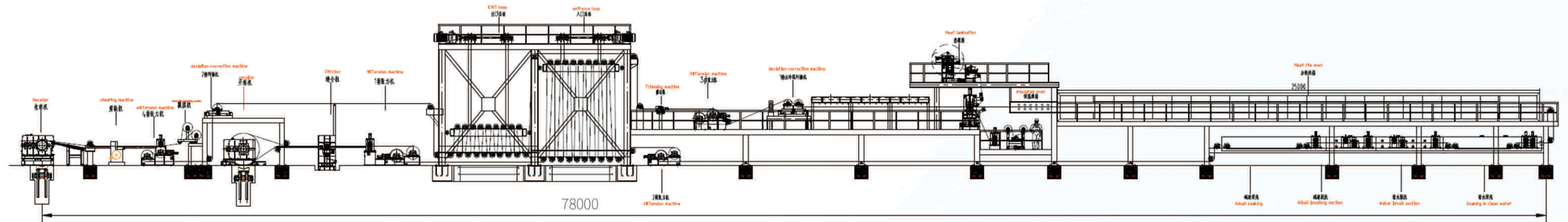
产品应用

Product application

建筑用装饰板、家电板等 Building decorative plate, home appliance sheet, etc.

隔热防腐建材板 内墙装饰板高温热覆膜生产线

Insulated Corrosion Resistant Building Plate & Interior Wall Decorative Plate High Temperature Film Laminating Line

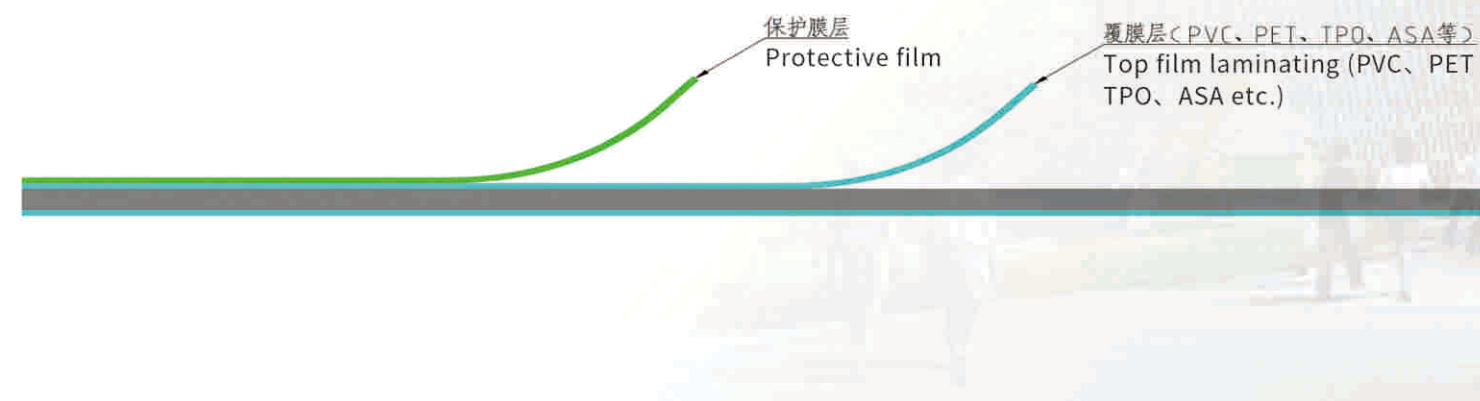


工艺流程 Technical process

上卷→开卷→缝合→1#张力机→入口活套→2#张力机→脱脂→热风干燥→热覆膜→1#水冷辊纠偏机→3#张力机→修边机→出口活套→2#纠偏机→4#张力机→保护膜覆膜机→检查台→分切→卷取→卸卷→包装

Loading coil→Uncoiling→Stitching→1# tension roller→Entry looper→2# tension roller→Degreasing→Hot air drying→Hot film laminating→1# water cooling roll CPC→3# tension roller→Trimming machine→Exit looper→2# CPC→4# tension roller→Protective film laminating→Inspecting table→Cutting→Recoiling→Unloading coil→Packaging

涂层示意 Coating schematic diagram



产品应用 Product application

隔热防腐板、防水材料等

Heat insulation anti-corrosion plate, waterproof materials etc.

内墙装饰板 Interior wall decorative panel



基板<冷轧板、镀锌板、铝板、不锈钢板>
Substrate sheet (cold rolled plate, GI sheet, aluminum sheet, stainless steel sheet)

覆膜层<PET等>
Back film laminating (PET etc.)

其他生产机组

Other Type Of Processing Lines

清洗线

Cleaning Line

重卷线

Recoiling Line

压花线

Embossing Line



配套单机设备 Single Equipment



外观靓丽
Beautiful appearance



全自动化
Fully intelligent and dynamic



品质保证
Quality assurance

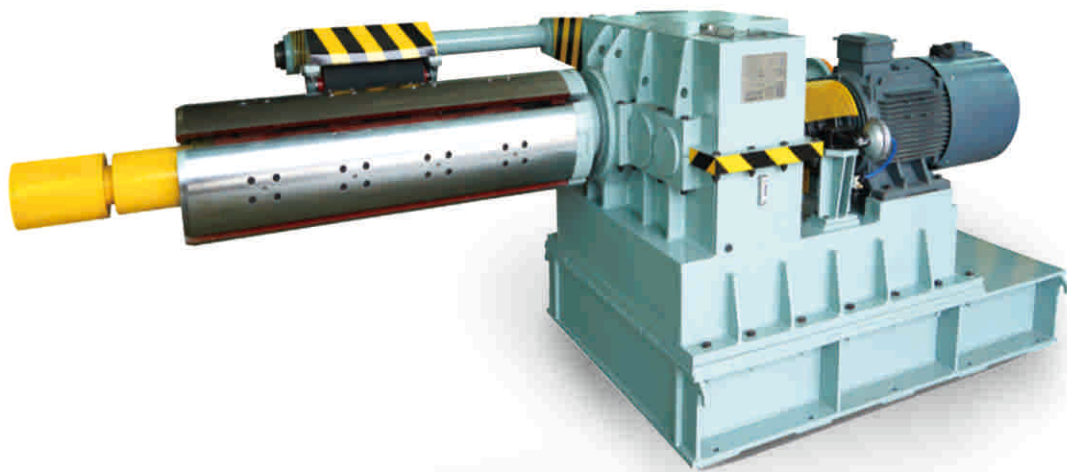
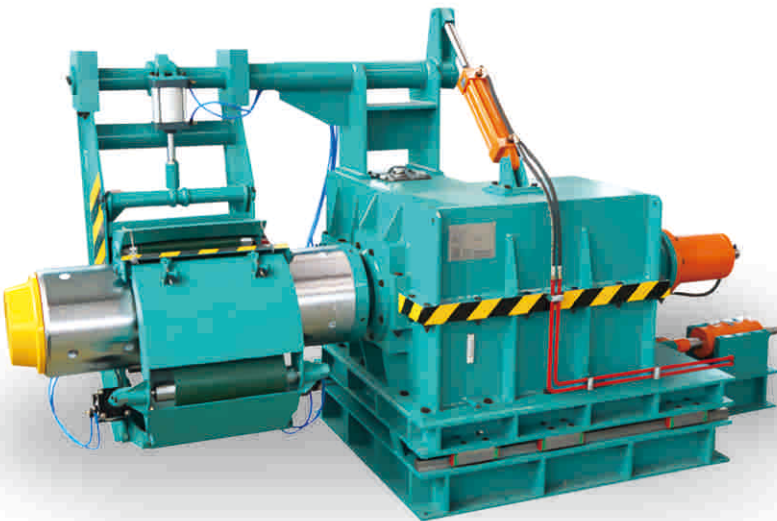


开卷机

Uncoiler

收卷机

Recoiler



开卷机接收上卷小车上卷材，并将其头部送入生产线。开卷为固定式开卷，四棱锥轴卷筒结构。其由芯轴、减速机、电机、芯轴胀缩液压缸等组成。卷筒由液压缸控制胀缩，芯轴的驱动由电机变频调速完成。

The uncoiler receives the coil from the loading coil car and sends its head to the production line. The uncoiler is fixed uncoiling, structure of rectangular pyramid axis reel. Composed of mandrel, reducer, motor, mandrel expansion and contraction hydraulic cylinder, etc. The reel is controlled by hydraulic cylinder, and the mandrel is driven by motor frequency conversion speed regulation.

适用于各类卷材生产线的放料。
It's suitable for uncoiling in various coil production line.

收卷机安装在彩涂线的出口端，作用是将彩涂板卷取成卷，以方便产品运输。卷取机由卷筒、回转胀缩缸、齿轮箱、传动电机及制动器、底座组成。悬臂棱锥无缝式卷筒结构，液压胀缩，交流变频电机调速传动。

The recoiler is installed at the exit end of color coating production line, the function is to roll the color coating sheet into a coil to facilitate product transportation. The recoiler is composed of reel, rotary expansion and contraction cylinder, gear box, driving motor, brake and pedestal. Cantilever pyramid seamless reel structure, hydraulic expansion and contraction, AC frequency converted motor speed control.

卷筒类型 Reel type	卷材直径 Coil inner diameter	板材宽度 Sheet width	线速度 Line speed	承重 Load capacity	胀缩范围 Range of expansion&contraction
有缝、无缝、钳口 seamed, unseamed, jaw type	486-505mm	500-2850mm	0-400m/min	3-30tons	480-512mm

承 重 Load capacity	卷材内径 Coil inner diameter	卷材外径 Coil outer diameter	板材宽度 Sheet width	主传动 Main drive	胀缩范围 Range of expansion&contraction
max 30 tons	508mm	max.1500mm	500-2850mm	交流变频电机 AC frequency conversion motor	486-505mm



涂装机

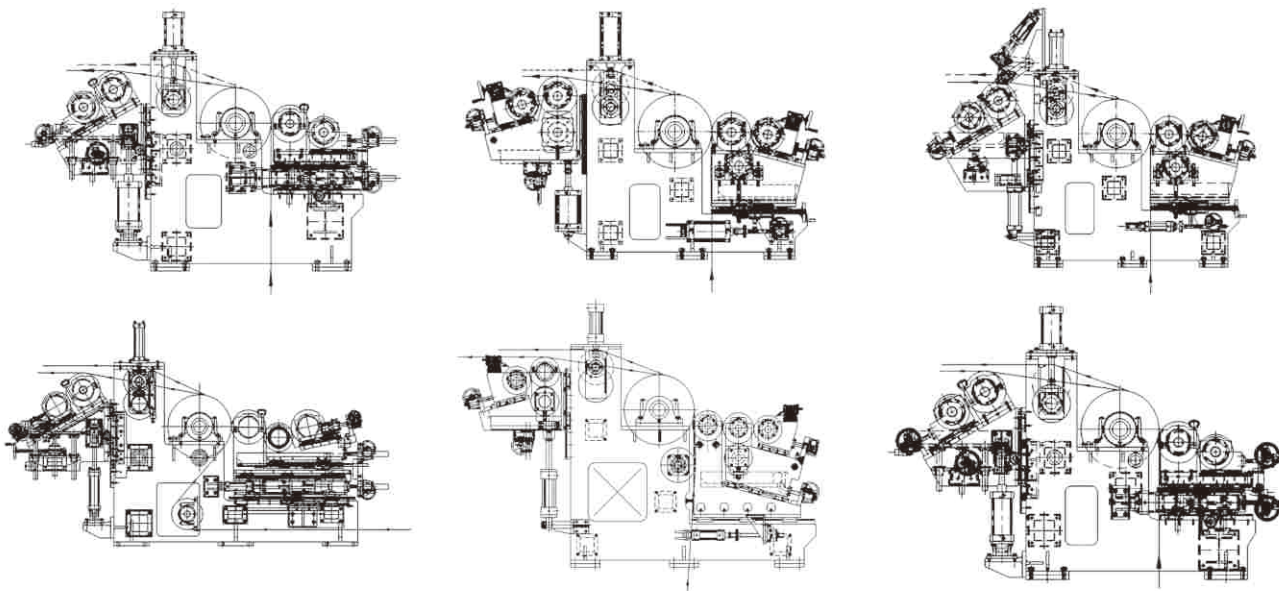
Coater

膜厚范围 1um-45um
 Film thickness range



涂装形式：双涂头涂装机、双面一体涂装机、单涂头涂装机。
 排列形式：T型、V型、L型、二辊、三辊、四辊涂装机。
 安装形式：卧式、立式、挤干式、斜面式。
 涂装介质：钝化液、各种油漆、油墨、橡胶、热熔胶、蜡等

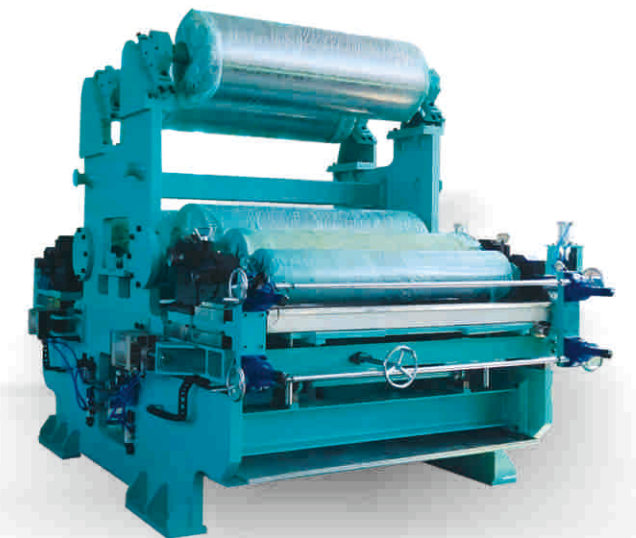
Coating type: double coating head coater, double side integrated coater, single coating head coater.
 Arrangement form: T-type, V-type, L type, two-roll, three-roll and four-roll coater.
 Installation form: horizontal, vertical, squeezing type, inclined-plane type.
 Coating medium: passivation liquid, all kinds of paint, ink, rubber, hot melt glue, wax, etc.



双头涂装机

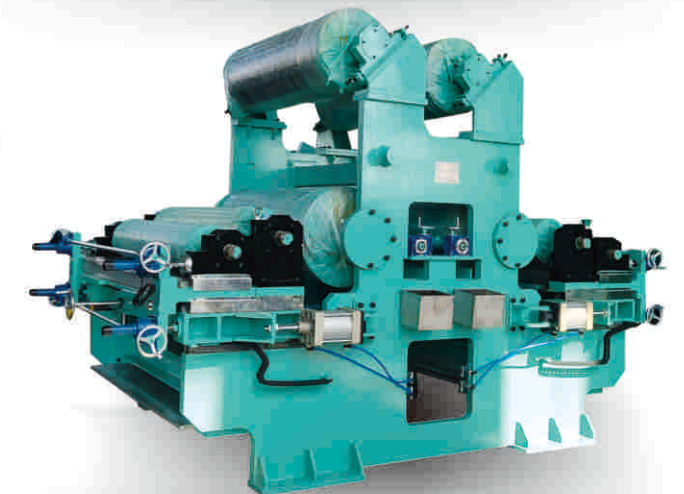
Double-head Coater

膜厚范围 5um-30um
 Film thickness range



为板带涂装面漆。
 涂装形式：二辊式、三辊式
 排列形式：二辊型、三辊型、二辊--三辊型
 涂装介质：各种油漆、橡胶、热熔胶、蜡等

Coat finish coating for strip.
 Coating type: two-roll, three-roll
 Arrangement form: two-roll type, three-roll type, two-roll&three-roll type
 Coating medium: all kinds of paint, rubber, hot melt glue, wax, etc.



缝焊机

Jointing Machine



本机器由碳钢板焊接经精密加工组装而成，采用三油缸和导柱设计，使模具在缝合过程中受力均匀，减小模具变形和板带毛刺。

The machine is welded by carbon steel plate, precision machining and assembly, using three oil cylinders and guide pillar design, so that the mold is forced evenly in the stitching process, thereby reducing the mold deformation and sheet burr.

本机器机身是由碳钢板焊接而成，采用液压传动方式，油缸装在机身支架中，使设备的布局非常紧凑。本机器设有限位机构，在缝合厚板料时，可使模具达到限位位置，防止板带缝口过小，无法穿带缝合。

The machine body is welded by carbon steel plate, adopts hydraulic transmission mode, the oil cylinder is installed in the body bracket, so that the overall arrangement of the equipment is very compact.

The machine is equipped with a limit mechanism, which can make the mold reach the limit position when stitching the thick sheet material, and prevent the seam of the sheet belt too small, which can not be stitched by threading belt.

钢板缝合、铝板高精度缝合、铜、不锈钢等。
接头种类：自锁、穿条。单口、双口。

Steel sheet stitching, aluminum sheet high precision stitching, copper stitching, stainless steel stitching, etc
Joint type: self-locking, threading, single-port, double-port.

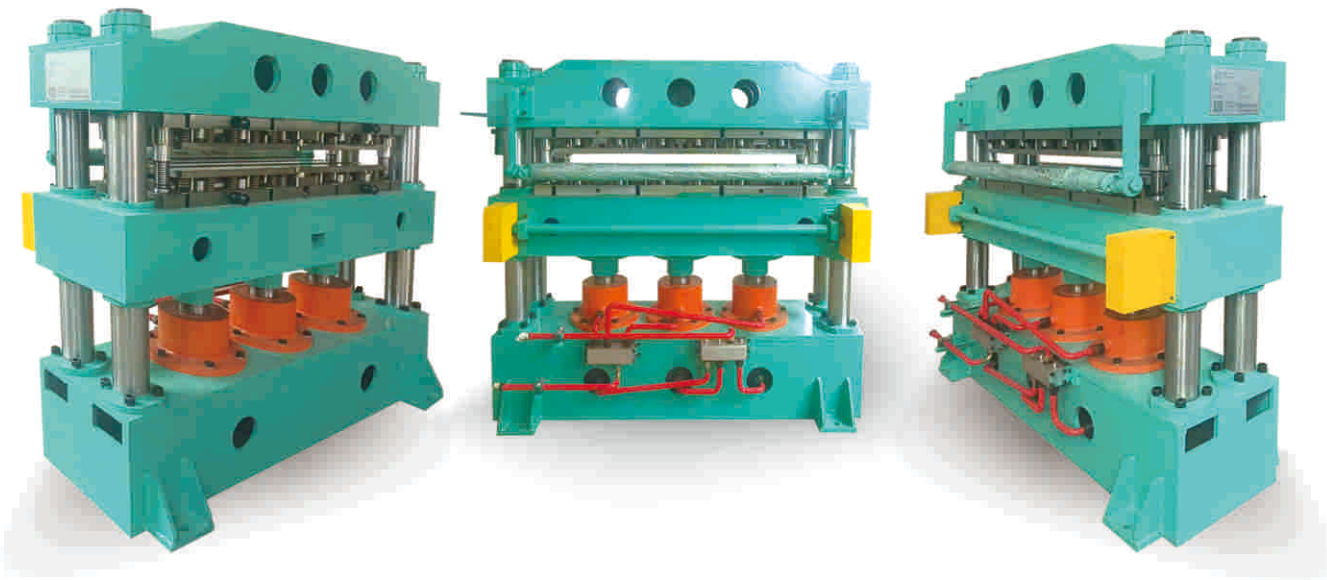
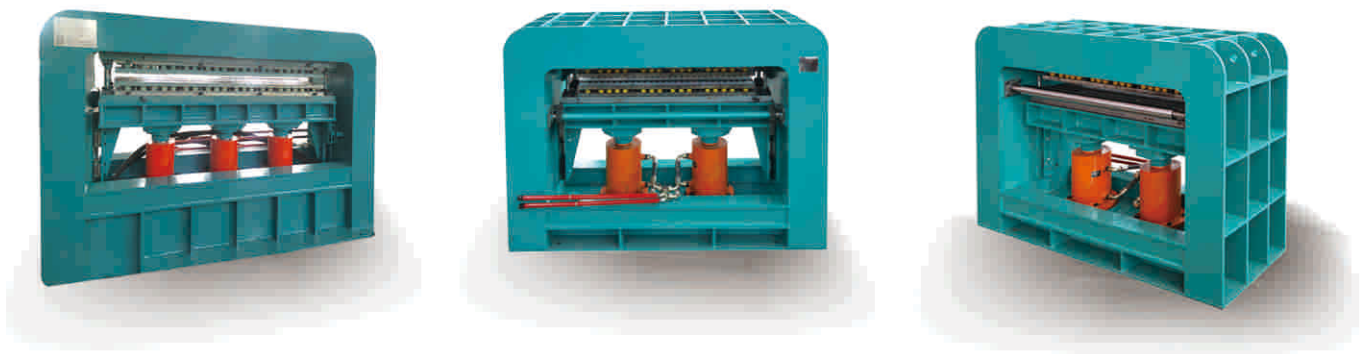
缝合材料 Stitching material	缝合厚度 Stitching thickness	缝合宽度 Stitching width
钢板、铝板、不锈钢板、铜板 steel sheet, aluminum sheet, stainless steel sheet, copper sheet	0.1-4.0mm	300-2800mm

受力均匀
Uniform force distribution

减小模具变形
Reduce mold deformation

液压传动
Hydraulic transmission

精准缝合
Precision stitching



缝合厚度
Stitching thickness 0.10mm-4.0mm

缝合宽度
Stitching width 300mm-2800mm

清洗预处理系统

Cleaning Pretreatment System

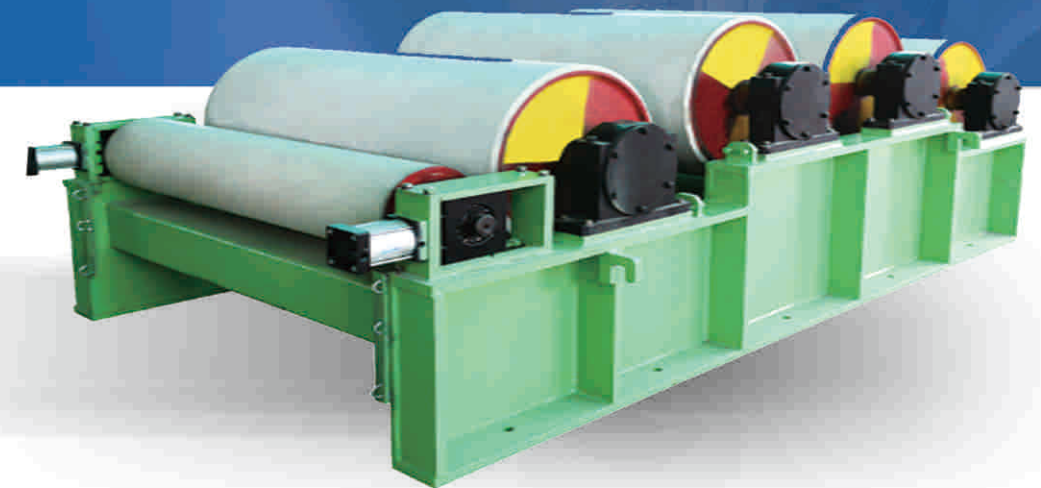


- 分段式碱洗、酸洗、水洗，根据材料种类、长度、清洗种类可任意组合，达到清洗板材表面油污、杂质等使板带表面清洁。
- 可选择加热、不加热、独立加热、余热利用加热等形式。
- 可选喷淋清洗、刷辊清洗、浸泡清洗等种类。
- 配套挤干机组，边部残留吹扫，热风吹干等。
- Segmented alkali washing, pickling, water washing, can be any combination according to material, length and cleaning type, to clean the sheet surface of oil pollution, impurities and so on, so that the sheet surface is clean.
- Heating, no heating, independent heating, waste heat utilization heating for option.
- Spray cleaning, brushing roll cleaning, soaking cleaning for option.
- Equipped with squeezing unit, edge residual purging, hot air drying, etc.



张力机

Tension Machine



结构形式：卧式、立式、四辊、三辊、二辊等或者多机组组合使用。

Structure form: horizontal, vertical, four-roll, three-roll, two-roll, etc. Or multi-unit combination.



印花机

Printing Machine

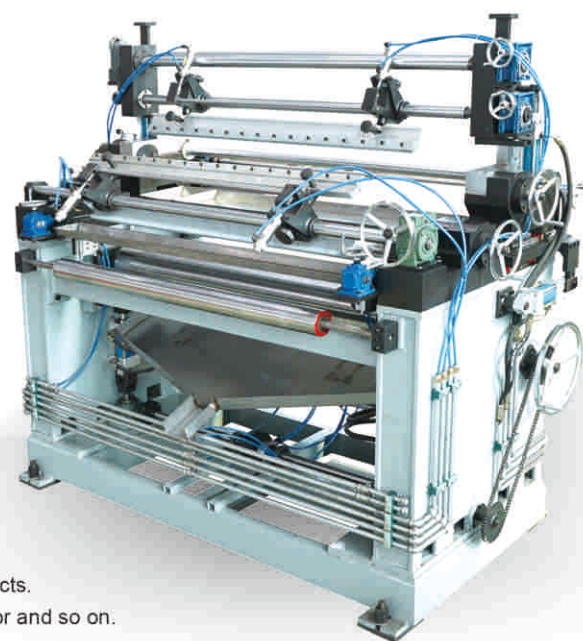
赋予金属板材表面各种花纹、图案，达到装饰效果。

套色分类：单色、两色、三色、四色等多色。

安装形式：卧式、立式。

使用介质：油漆、油墨等。

印刷速度：单色速度：240m/min，套色速度：120m/min



Give various patterns on metal sheet surface, to achieve decorative effects.

Color register classification: single-color, two-color, three-color, four-color and so on.

Installation form: horizontal, vertical

Printing speed: single-color: 240mpm, color register: 120mpm

240m/min

单色印刷速度
Printing speed single-color

120m/min

套色印刷速度
Printing speed color register



热覆膜机组

Hot Film Laminating Machine



为金属板材表面贴一层装饰膜，用于高端装饰板材、家电面板等领域，具有板材表面细腻、精美。

贴膜形式：涂胶、高分子等形式。

A layer of decorative film is attached on the metal sheet surface, which is used for high-end decorative sheet, household appliances sheet and other fields. The surface of sheet is delicate and exquisite.

Film attaching form: glue, macromolecule, etc.



剪刀

Shearing Machine

电动剪、单口剪、双口剪

Electric shear, single-port shear, double-port shear

优点:

刀口开口尺寸大, 不影响板带通过。

剪刀四面任意更换, 刀口调节快捷。

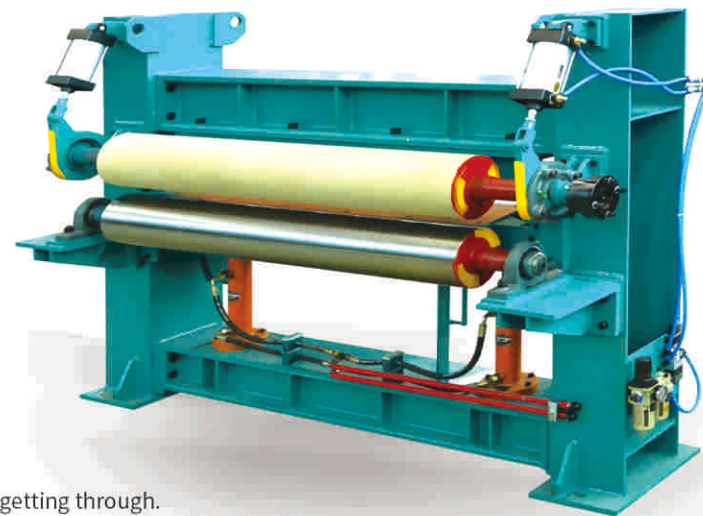
安全联锁, 确保安全。

Advantages:

Scissors opening size is large, does not affect the sheet getting through.

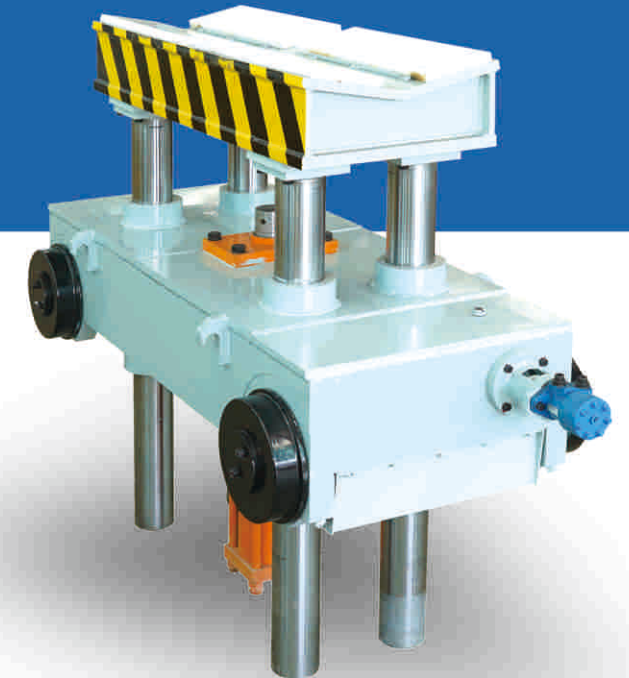
The four sides of shear edge can be changed, and the shear edge can be adjusted quickly.

Safety interlock to ensure safety.



运卷小车

Coil Car



上卷车的功能是移送和托起钢卷, 并把钢卷装到开卷机的卷筒上。运卷小车由车体、小车传动装置、小车托架升降装置、升降液压缸组成。车体为钢板焊接框架结构, 车轮及小车传动装置固定在底座上, 小车行走带动车上的钢卷移动。小车行走机构采用液压马达通过齿轮传动, 一对车轮靠键连接在同一根轴上作为主动车轮, 另一对车轮为从动车轮, 通过轴、轴承连接在车体上。上卷时钢卷放在托架上, 液压缸带动托架及钢卷升起, 当钢卷中心对正卷筒中心时小车移动进行上卷。

The function of loading coil car is to transfer and lift the coil, and load coil to the reel of uncoiler. The coil car is composed of car body, driving device, lifting device of bracket, lifting hydraulic cylinder. The car body is steel plate welded frame, the wheels and trolley driving device is fixed on the pedestal. The car drives the coil on the car to move. The traveling mechanism of the car is driven by hydraulic motor through gear, a pair of wheels are connected on the same shaft by a key as active wheels, and the other pair of wheels are driven wheels, which are connected on the body through shaft and bearing. When loading coil, the coil is placed on the bracket, and the hydraulic cylinder drives the bracket and coil to rise. When the center of coil is aligned with the center of reel, the car moves to loading coil.

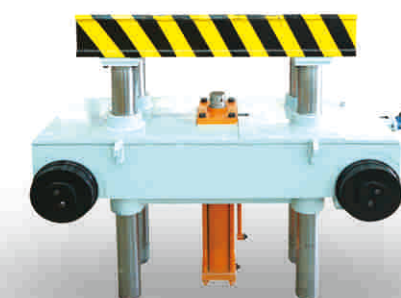
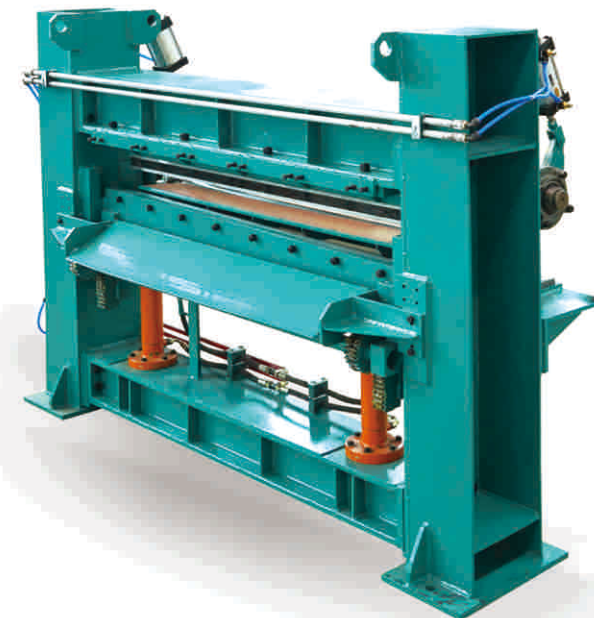
形式: 两导柱、四导柱、剪刀式。 Type: two guide posts, four guide posts, scissors type

承重: 3-30吨。

Load capacity: 3-30tons

行走速度: 0-40m/min

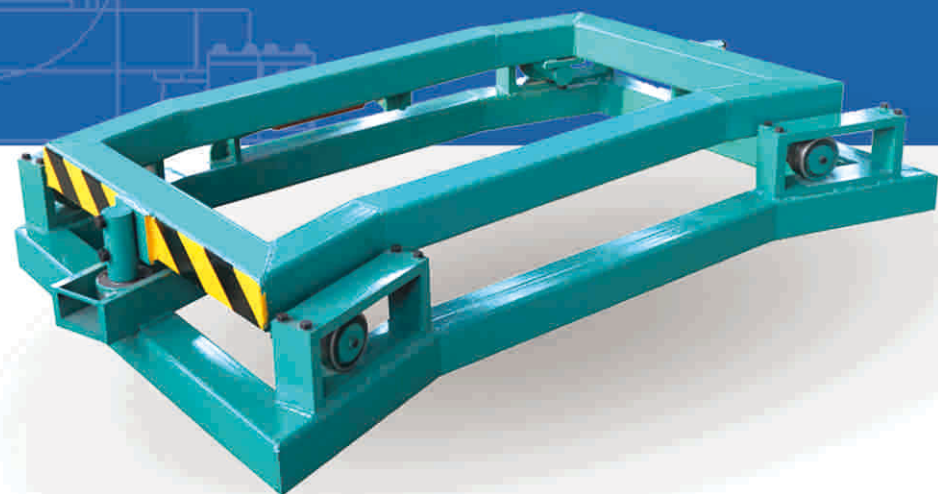
Moving speed: 0-40m/min



剪切厚度
Shear thickness 0.1-4.0mm

纠偏机

CPC



保证钢带准确对中，是机组高速运行的前提。影响带钢跑偏的因素有很多，如：辊子中心线与带钢运行方向不垂直；带钢镰刀弯；前后两卷带钢的接缝不平行；带钢厚度不均等。为解决这些问题，必须采用带钢纠偏装置。

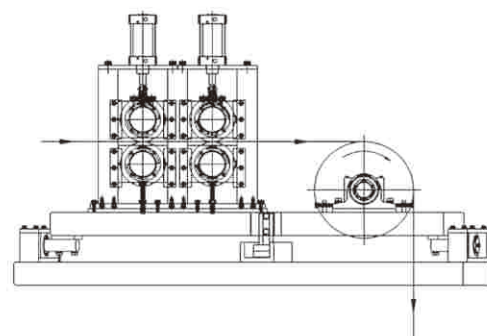
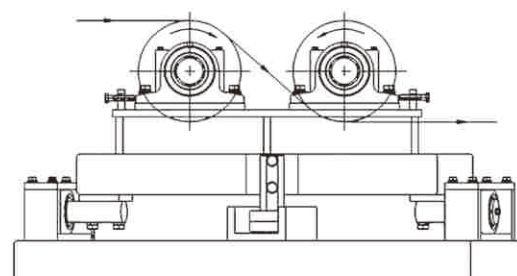
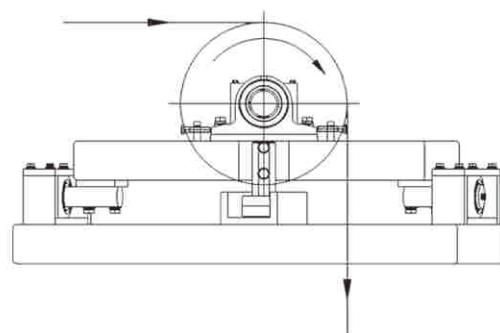
To ensure the accurate alignment of steel strip, is the premise of high-speed operation of the unit. There are many factors affecting the strip deviation, such as the roller center line and strip running direction is not perpendicular, strip sickle bend, joint of the front and back coils are not parallel, strip thickness is unevenness. In order to solve these problems, strip deviation correcting device must be used.

形式：单辊纠偏，双辊纠偏，挤干式纠偏，冷却整体移动式纠偏。

作用形式：P型，PI型

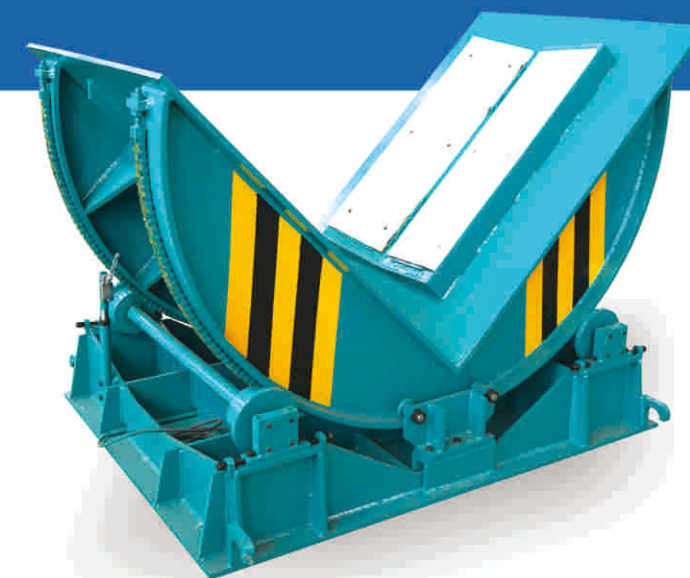
Type: single-roll CPC, double-roll CPC, squeezing type CPC, cooling overall movable type CPC

Action mode: P type, PI type



立包机、反转机

Vertical Packaging Machine Reversing Machine



广泛用于卷材的立式包装，方便长途运输。

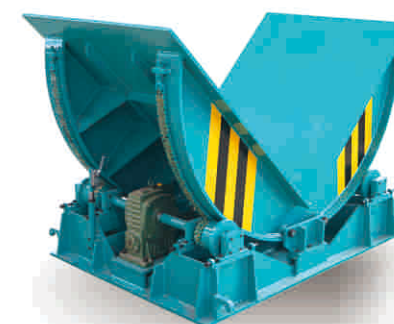
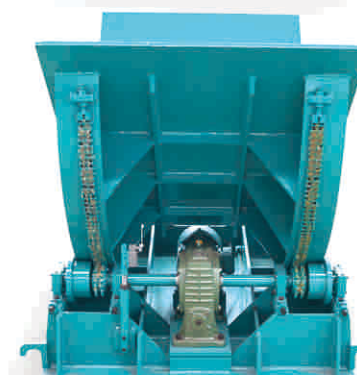
承重：3-30吨。

反转速度：25秒/次

Widely used for vertical packaging of coil, which is convenient for long-distance transportation.

Load capacity: 3-30tons

Reversal speed: 25s/time



生产线液压系统

Hydraulic System of Line

压力Pressure
Max16Mpa

为生产线提供液压动力。采用节能式，只有在液压动作时自动开启，非动作时间系统处于保持压力状态，最大化的节约电力能源。

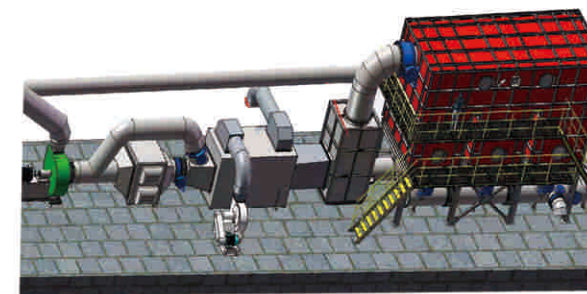
Provide hydraulic power for production line. Energy-saving, only when the hydraulic action it will open automatically, the system is in the state of pressure upkeep, which save power energy maximully.



RCO、RTO、DTO

废气回收加热系统

Exhaust Gas Recovery Heating System-RCO/RTO/DTO



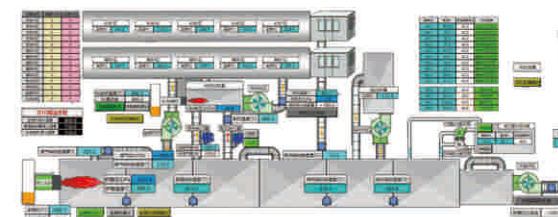
彩涂线配备加热、废气回收余热利用系统，有效降低能源消耗，排放标准优于国家标准要求。
吨钢天然气耗量低至4立方米/吨，VOCS非甲烷总氢小于30mg.

Color coating line equipped with heating, exhaust gas recovery and waste heat utilization system, effectively reduce energy consumption, emission standard is better than the national standard requirements.- Natural gas consumption is as low as 4m³/ton of steel sheet, VOCS Non-Methane Total Hydrocarbons (NMTHC) is less than 30mg.



DTO: 加热烧嘴—废气高温氧化室—废气2次换热器—新风2次换热器—废气1次换热器—新风1次换热器—钝换新风换热器—前处理热水换热器—外排引风机—烟囱排空;
RTO: 固化炉废气 (有组织废气) _RTO焚烧炉-新风换热器 (烟气换热器) --前处理钝化烘干换热器-水汽换热器-外排风机-烟囱达标排放(涂漆室 (无组织废气收集) -收集新风风机-新风换热器换热-补热炉-固化炉供热使用)
在基准板0.3mm厚, 油漆干膜20μm厚的前提下, DTO与RTO的吨钢耗气量均低于3m³, 非甲烷总氢含量均低于15mg/m³.

DTO: Heating burner → High-temperature waste gas oxidation chamber → Secondary waste gas heat exchanger → Secondary fresh air heat exchanger → Primary waste gas heat exchanger → Primary fresh air heat exchanger → Passivation fresh air heat exchanger → Pretreatment hot water heat exchanger → External exhaust fan → Chimney discharge;
RTO: Curing oven waste gas (organized waste gas) → RTO incinerator → Fresh air heat exchanger (flue gas heat exchanger) → Pretreatment passivation drying heat exchanger → Water-vapor heat exchanger → External exhaust fan → Chimney discharge up to standard(Painting booth waste gas (unorganized waste gas collection) → Collection fresh air fan → Fresh air heat exchanger → Supplementary heating furnace → Curing oven heat supply)
On the premise that the thickness of the base plate is 0.3 mm and the dry film thickness of the paint is 20 μm, the gas consumption per ton of steel for both DTO and RTO is less than 3 m³, and the Non-Methane Total HYDROCARBONS (NMTHC) content is lower than 15 mg/m³.



承接生产线升级改造服务⁺

Upgrading&Revamping Service for Production Line



可根据客户要求，提出改造方案，使原有生产线无论是产能、能耗、功能等达到最理想性能，为客户创造最大效益。
 Make revamping proposal according to customer requirement, so that the existing production line in terms of production capacity, energy consumption, function to achieve the best performance, to create the maximum benefit for customers.

我们郑重承诺

We promise

对于售出的生产线和单机产品，我们都提供完善的售后服务。

For the sold production line and single equipment
 we provide thorough after-sale service.

质量
保证

QUALITY GUARANTEE

在1年质量保质期内，我们的工程技术人员将会对设备的设计、制造和质量缺损进行无偿修复。
 In one year quality guarantee period, our engineering technicians will repair the defect of design and manufacture or quality.

终身
维护

LIFELONG MAINTENANCE

我们将对所售出的设备负责终身维护，并提供优惠价格的备品备件。
 We will maintain our sold equipment for lifelong and provide preferential price of spare parts.

故障
处理

FAULT HANDLING

如设备出现故障，接到客户请求后，我们将在第一时间给予答复，必要时24小时内派出技术人员到达现场。
 If equipment breaks down, when we get customer's requirement, we will reply in first time, if it's necessary, we will dispatch technician to site in 24 hours.

提供
备件

PROVIDE SPARE PARTS

对于生产过程中设备的易损件，公司建立了备品备件库，可以对客户的需求进行快速响应。
 For spare part, we build spare parts storage, which can quickly response customer's requirement

增值
服务

VALUE-ADDED SERVICE

我们将协助客户进行与我公司产品相关的技术改造。
 We will assist customer to technology modify by our products.