

静电粉末喷涂设备
ELECTROSTATIC POWDER
COATING EQUIPMENT

COMPANY PROFILE 公司简介

JOBON

PENTOO

1973

青岛中邦科技发展有限公司
创建于1973年

15000

位于青岛莱西市经济开发区
建筑面积15000平方米

70+

公司获得七十多项
国内外专利



青岛中邦科技发展有限公司创建于1973年，位于青岛莱西市经济开发区，建筑面积15000平方米，是一家集研发、生产、服务为一体的科技型制造企业。公司是中国表面工程协会理事单位，中国涂料协会涂装分会理事单位，中国搪瓷工业协会副理事长单位，中国搪瓷装备工程技术研究中心，中国全国搪瓷标准化委员会委员单位，国家级高新技术企业，东华大学博硕士研究生培养基地，是科勒、美的、海尔、伊莱克斯、中联重科、中力集团等多家公司的设备供应商。

公司董事长潘鹏飞先生是国际知名静电粉末喷涂技术专家，获得七十多项国内外专利，发表静电粉末喷涂有关的国际论文2篇，国内论文4篇，并被东华大学聘为博士研究生导师，并被评为中国搪瓷40周年最具影响领军人物。

中邦公司拥有自主品牌JOBON和PENTOO，主要产品都通过了欧盟的CE认证和ATEX防爆认证，生产的静电粉末喷涂设备出口到德国、意大利、美国、日本、英国、法国、俄罗斯、澳大利亚、墨西哥、加拿大、沙特、马来西亚等众多国家和地区。

中邦公司的目标是为全球用户提供最好的静电喷涂设备和最好的服务。



Qingdao JOBON Science&Tech Development Co., Ltd. was founded in 1973 and is located in Laixi Economic Development Zone, Qingdao, with a construction area of 15,000 square meters. It is a technology-based manufacturing enterprise integrating R&D, production and service. The company is a governing unit of the China Surface Engineering Association, a governing unit of the Painting Branch of the China Coatings Association, a vice-chairman unit of the China Enamel Industry Association, a member unit of the China Enamel Equipment Engineering Technology Research Center, a member unit of the China National Enamel Standardization Committee, a national high-tech enterprise, and a member of the East China Enamel Industry Association, Donghua University's doctoral and master's degree training base. The company is the equipment supplier for many companies such as Kohler, Midea, Haier, Electrolux, Zoomlion, and Zhongli Group etc.

Mr. Pan Pengfei, chairman of the company, is an internationally renowned expert in electrostatic powder coating technology. He has obtained more than 70 domestic and foreign patents, and published 2 international papers and 4 domestic papers on electrostatic powder coating technology. He was hired as a doctoral tutor by Donghua University and named the most influential leading figure in the 40th anniversary of Chinese enamel.

JOBON Company has its own brands JOBON and PENTOO. Its main products have passed the EU's CE certification and ATEX explosion-proof certification. JOBON electrostatic powder coating equipment is exported to Germany, Italy, the United States, Japan, the United Kingdom, France, Russia, Australia, Mexico, Canada, Saudi Arabia, Malaysia and many other countries and regions.

JOBON's goal is to provide the best electrostatic powder coating equipment and the best service for global users.

DEVELOPMENT HISTORY

发展历程



主要产品发展史

Main Products Development History

<p>1999</p>  <p>PF-01A型静电喷涂机 PF-01A Electrostatic Powder Coating Machine</p>	<p>2000</p>  <p>PF-02K型静电喷涂机 PF-02K Electrostatic Powder Coating Machine</p>	<p>2005</p>  <p>MA3300型静电喷涂机 MA3300 Electrostatic Powder Coating Machine</p>	<p>2011</p>  <p>MA3300D型静电喷涂机 MA3300D Electrostatic Powder Coating Machine</p>
<p>2018</p>  <p>S10型静电喷涂机(触摸屏) S10 Electrostatic Powder Coating Machine (Touch Screen)</p>	<p>2020</p>  <p>M2型静电喷涂机 M2 Electrostatic Powder Coating Machine</p>	<p>2021</p>  <p>S20型静电喷涂机(触摸屏) S20 Electrostatic Powder Coating Machine (Touch Screen)</p>	<p>2024</p>  <p>A5与A6型小型机 A5 / A6 Electrostatic Powder Coating Machine</p>

公司大事记
Company Events



S20

静电粉末喷涂机

Electrostatic Powder Coating Gun



S20能做什么?/What can S20 do?

- 1、超强的凹槽喷涂能力 (华为部件槽深至127MM可完美喷涂)
- 2、通过静电系统实现的厚度抑制功能 (临界点反弹效应)
- 3、自动喷涂效果好, 减少人工补喷
- 4、对工人的技术要求低
- 5、方便快捷的触摸屏操作
- 6、可快速恢复出厂设置
- 7、宽电压适应范围: AC100-240V自适应
- 8、长期稳定工作
- 9、文丘里管更换提醒
- 10、文丘里管磨损自动补偿
- 11、可与机器人配合实现“参数跳变式自动喷涂”, 实现超越人工的机器人喷涂。

1. Excellent groove coating capability (Huawei parts with 127mm groove can be perfectly coated)
2. Thickness suppression function realized by electrostatic system (critical point rebound effect)
3. The automatic coating effect is good, reducing manual repairing
4. Low technical requirements for workers
5. Convenient and quick touch screen operation
6. Can quickly return to the factory settings
7. Wide voltage adaptation range: AC100-240V self-adaptive
8. Long-term stable work
9. Venturi pipe replacement reminder
10. Automatic compensation for venturi pipe wear
11. Can cooperate with robot to realize "Automatic & Continuous Parameter Adjusting" to exceed human operation

应用/Application

家电, 铝型材, 汽车配件, 工程机械, 通讯设备, 灯具, 电气柜, 家具, 健身器材, 工业货架, 自行车, 建筑材料等。

home appliances, aluminum profiles, auto parts, construction machinery, communication equipment, lamps, electrical cabinets, furniture, fitness equipment, industrial shelves, bicycles, building materials etc.



S20

机器人瞬变参数自动喷涂

Instant Parameter Change Automatic Coating For S20+Robot

特点

Features

- 1、可选中文或英文界面
- 2、快速编程, 容易使用
- 3、喷涂过程中可根据需要随时自动改变喷枪参数
- 4、机器人编程中, 喷枪参数的设定和修改简单且容易操作

1. Optional Chinese or English interface
2. Fast programming, easy to use
3. During the spraying process, the parameters of the automatic gun can be automatically changed at any time according to the needs
4. In robot programming, the setting and modification of automatic gun parameters are simple and easy to operate



靠近, 慢走枪, 小出粉量

Approaching, move slowly automatically to realize little volume of powder output;



拉远, 快走枪, 大出粉量

Pulling away, move quickly, and automatically to realize bigger powder output;



M2

静电粉末喷涂机

Electrostatic Powder Coating Gun

特点

Features

- 1、超高性价比
- 2、可以轻松完成窄深凹槽的喷涂
- 3、拥有粉末自动包覆功能
- 4、各种夹角均可使用自动喷涂功能
- 5、宽电压使用范围:AC100-240V自适应
- 6、支持24小时全天候不间断工作
- 7、主机不怕静电直接冲击

1. High cost performance
2. Narrow and deep grooves coating can be easily completed
3. With automatic cladding coating function
4. Automatic coating can be easily applied for various included angles
5. Wide voltage range: AC100-240V self-adaptive
6. Support 24hours continuous work
7. The control is safe from direct impact of static electricity



应用/Application

家电, 铝型材, 汽车配件, 工程机械, 通讯设备, 灯具, 电气柜, 家具, 健身器材, 工业货架, 自行车, 建筑材料等。

home appliances, aluminum profiles, auto parts, construction machinery, communication equipment, lamps, electrical cabinets, furniture, fitness equipment, industrial shelves, bicycles, building materials etc.



A5&A6

静电粉末喷涂机

Electrostatic Powder Coating Machine

特点

Features

- 1、结构紧凑,性价比高
- 2、可以轻松完成窄深凹槽的喷涂
- 3、拥有粉末自动包覆功能
- 4、各种夹角均可以使用自动喷涂
- 5、宽电压使用范围:AC100-240V自适应
- 6、支持24小时全天候不间断工作
- 7、主机不怕静电直接冲击
- 8、支持集成控制系统,在一块触摸屏上设置、控制所有喷枪
- 9、自动喷涂配方编程保存,针对不同零件保存所有喷枪的设置,一键调用
- 10、文丘里管寿命提示,保障喷涂质量
- 11、文丘里管磨损自动补偿,保持自动喷涂膜厚均匀
- 12、机柜集成度高:48路机柜尺寸H2060*W650*510,36路机柜尺寸H1920*W650*510

1. Compact design and high cost performance
2. Narrow and deep groove coatings can be easily completed
3. With automatic cladding coating function
4. Automatic coating can be easily applied to various included angles
5. Wide voltage range: AC 100-240V self-adaptive
6. Supports 24-hour continuous operation
7. The control is protected from direct static electricity impact
8. Supports an integrated control system, allowing you to set and control all spray guns on one touch screen
9. Automatically saves spraying formula programs, stores all spray gun settings for different parts, and exports them with one click
10. Venturi pipe service life reminder to ensure spraying quality
11. Venturi pipe wear is automatically compensated to maintain uniform film thickness during automatic spraying
12. High cabinet integration: 48-channel cabinet size H2060*W650*D510, 36-channel cabinet size H1920*W650*D510

应用/Application

家电, 铝型材, 汽车配件, 工程机械, 通讯设备, 灯具, 电气柜, 家具, 健身器材, 工业货架, 自行车, 建筑材料等。

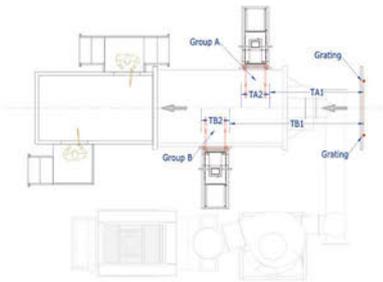
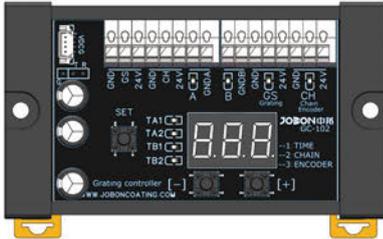
home appliances, aluminum profiles, auto parts, construction machinery, communication equipment, lamps, electrical cabinets, furniture, fitness equipment, industrial shelves, bicycles, building materials etc.



WORKPIECE DETECTION GRATING

GC-102光栅控制系统

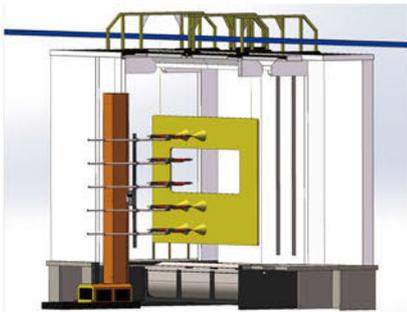
GC-102 Grating Control System



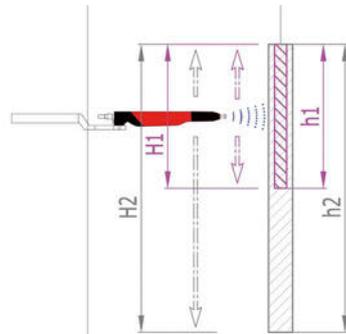
供电电源 Power Supply	AC100-240V, 50-60Hz AC100~240V,50~60Hz
额定功率 Rated Power	40W 40W
控制界面 Control Interface	LED数码管 LED Digital Tube
检测对象 Detection Object	工件有无 Whether the workpiece is present or not
控制对象 Control Object	喷枪的开停 Starting and stopping of the spray gun
功能 Function	没有工件时暂停喷涂 Pause spraying when there is no workpiece
意义 Significance	节省粉末涂料 Save powder

GC-202光栅控制系统

GC-202 Grating Control System



喷枪竖排



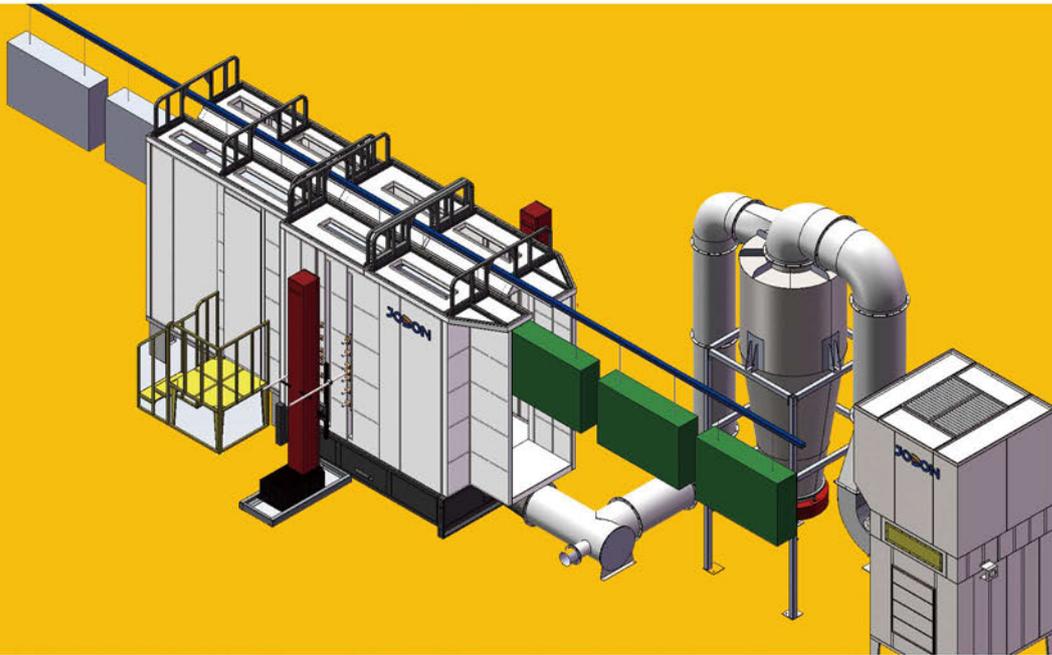
喷枪横排

供电电源 Power Supply	AC100-240V, 50-60Hz AC100~240V,50~60Hz
额定功率 Rated Power	30W 30W
控制界面 Control Interface	LED数码管 LED Digital Tube
检测对象(喷枪竖排) Detection Object (Vertical)	工件形状 Workpiece Shape
控制对象(喷枪竖排) Control Object (Vertical)	喷枪的开停 Starting and stopping of the spray gun
功能(喷枪竖排) Function (Vertical)	根据工件形状控制每把喷枪开停 Control each spray gun to start and stop according to the shape of the workpiece
检测对象(喷枪横排) Detection Object (Horizontal)	工件总高度 Total height of work piece
控制对象(喷枪横排) Control Object (Horizontal)	往复机行程 Reciprocator stroke
功能(喷枪横排) Function (Horizontal)	根据工件高度控制往复机行程 Control the reciprocator stroke according to the height of the workpiece
意义 Significance	节省粉末涂料 Save powder

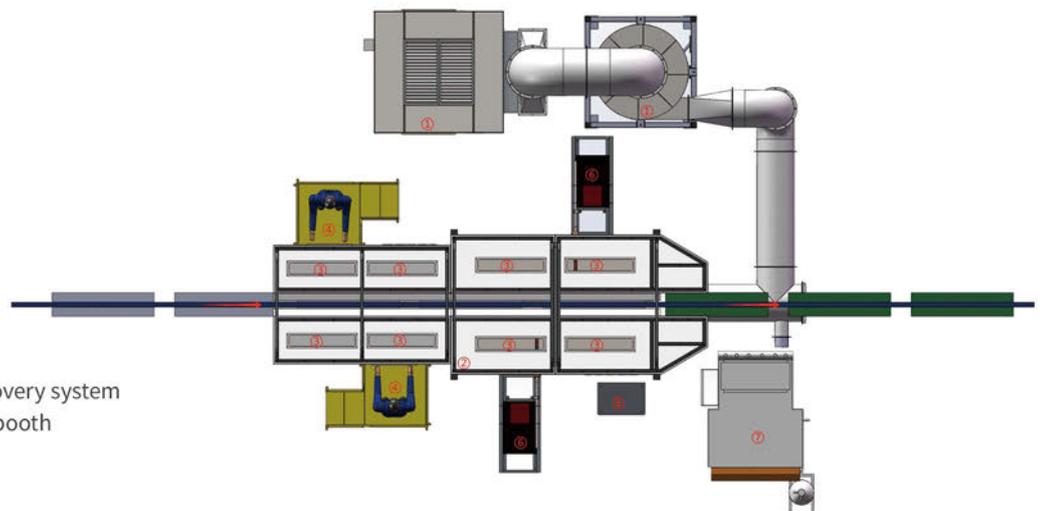
BOOTH

快换色自动喷房

PVC Automatic Booth / Sandwich Fast Color Change Booth



- (1) 大旋风二级回收系统
- (2) PVC快速换色自动喷房
- (3) 嵌入式LED照明
- (4) 手动检查补喷平台
- (5) 喷枪主机机柜
- (6) 自动往复机
- (7) 供粉中心



- (1) Mono cyclone with two stage recovery system
- (2) PVC fast color change automatic booth
- (3) Embedded LED lighting system
- (4) Manual Touch Up Station
- (5) Spray gun host cabinet
- (6) Automatic reciprocator
- (7) Powder supply center

BOOTH

PVC材质双工位喷房

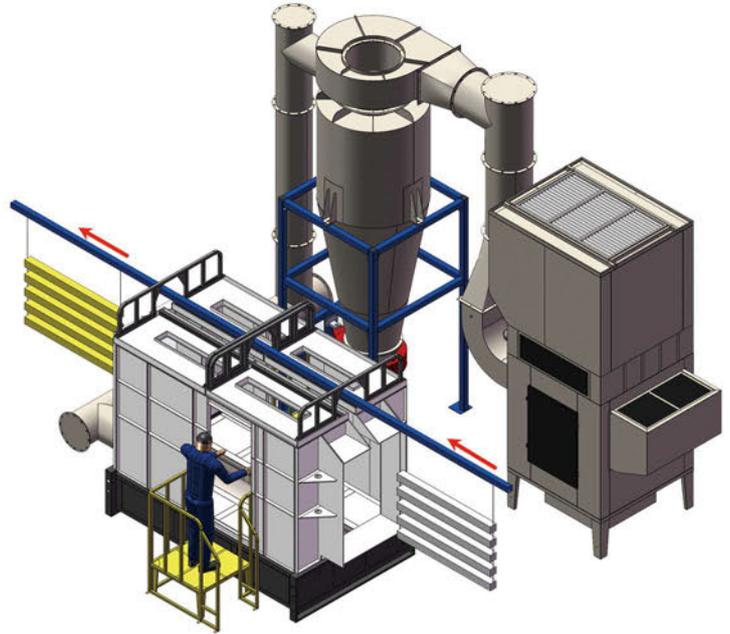
PVC Material Double Station Booth

喷房优势

Advantage

- (1) 易于清理
- (2) 快速换色
- (3) 室内排风
- (4) 换色不需要换滤芯

- (1) Easy to clean
- (2) Fast color change
- (3) Clean air exhaust
- (4) Change Color No Need Change Filter



BOOTH

金属材质双工位喷房

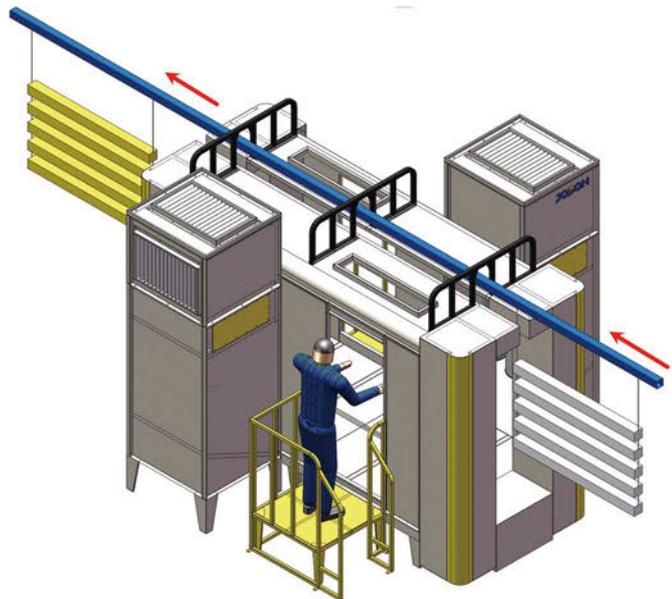
Electro Galvanized Steel Double Station Booth

喷房优势

Advantage

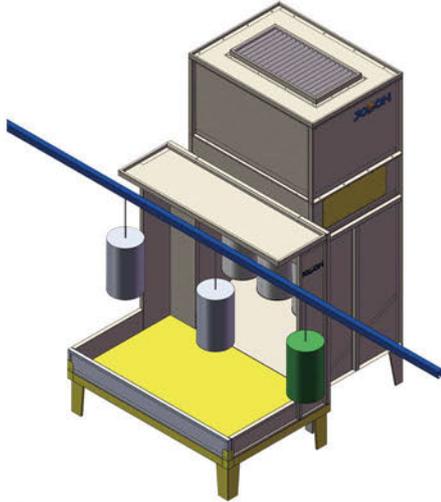
- (1) 静电粉末喷涂表面
- (2) 室内排风单级回收系统
- (3) 独立密封的LED照明
- (4) 单片机核心的数字脉冲程控仪控制

- (1) Electrostatic Powder Coated Surface
- (2) Single stage filter recovery system with clean air exhaust
- (3) Independent LED lighting system
- (4) The control of digital pulse program controller based on MCU



BOOTH

开放式单工位喷房
Open Style Single Station Booth



标准喷房尺寸

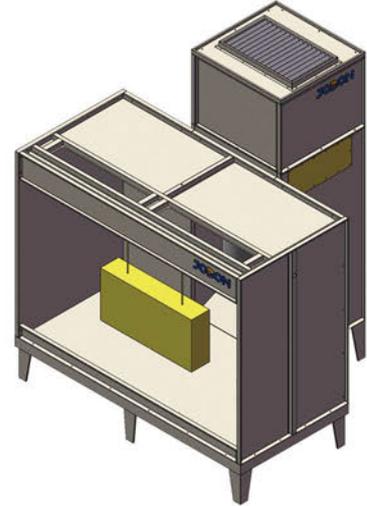
Standard Booth Dimension

1700mmW x 1600mmH x 1000mmDepth

2200mmW x 2000mmH x 1200mmDepth

BOOTH

单工位喷房
Single Station Booth



标准喷房尺寸

Standard Booth Dimension

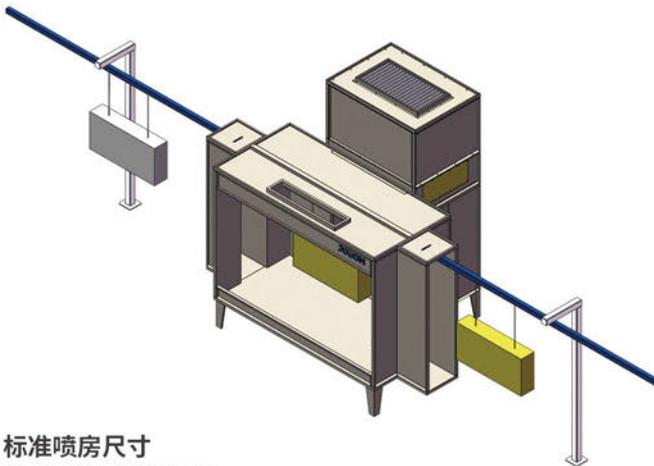
1100mmW x 1400mmH x 1000mmDepth (Inside 1700mmH)

1600mmW x 1400mmH x 1000mmDepth (Inside 1700mmH)

2800mmW x 1500mmH x 1400mmDepth (Inside 1800mmH)

BOOTH

侧进侧出的单工位喷房
Side In & Out Single Station Booth



标准喷房尺寸

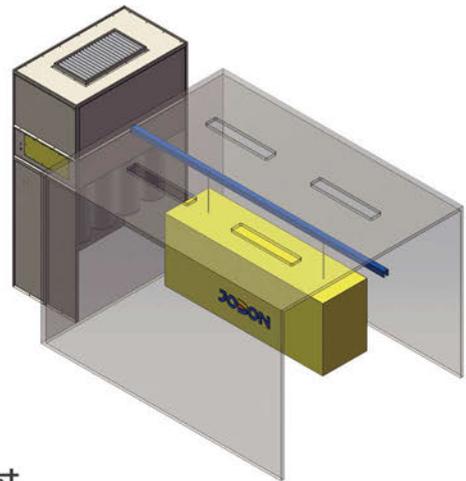
Standard Booth Dimension

1600mmW x 1400mmH x 1000mmDepth (Inside 1700mmH)

2400mmW x 1400mmH x 1000mmDepth (Inside 1700mmH)

BOOTH

落地进入喷房
Walk-In Booth



标准喷房尺寸

Standard Booth Dimension

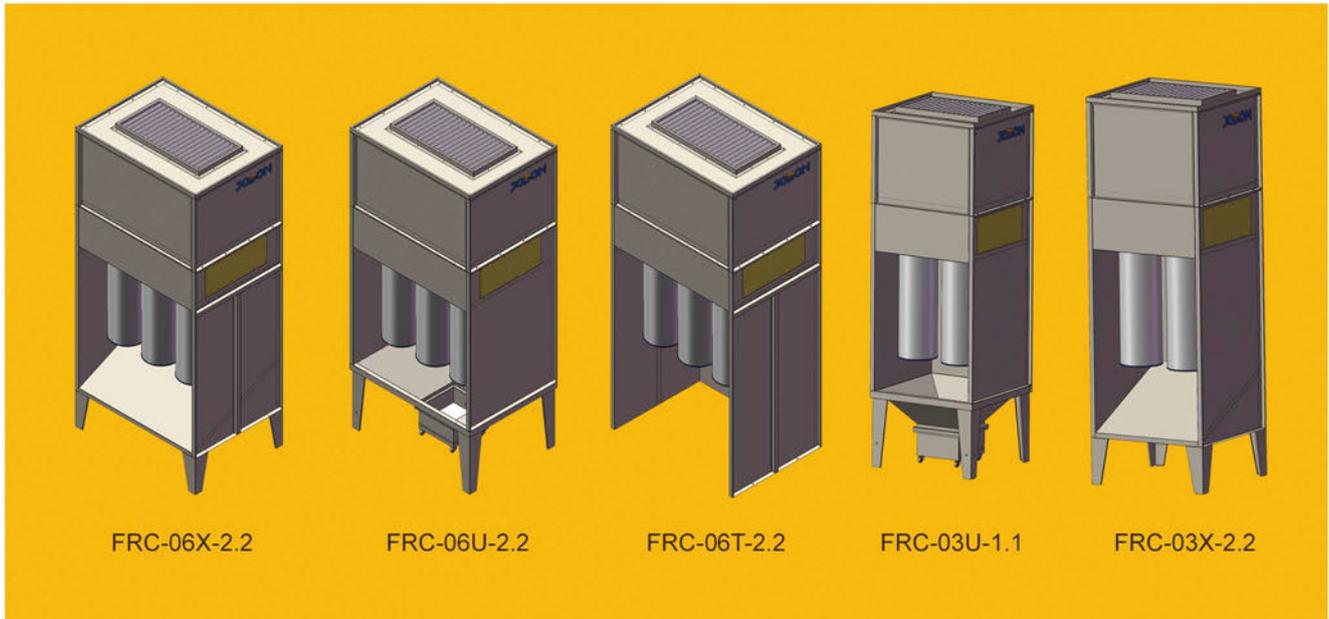
3000mmW x 2100mmH x 3000mmL (Inside 2400mmH)

3800mmW x 2100mmH x 3500mmL (Inside 2400mmH)

BOOTH

FRC系列滤芯回收系统 (净风排放)

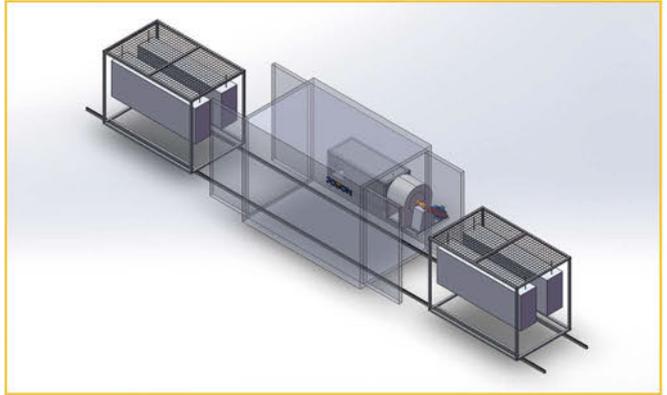
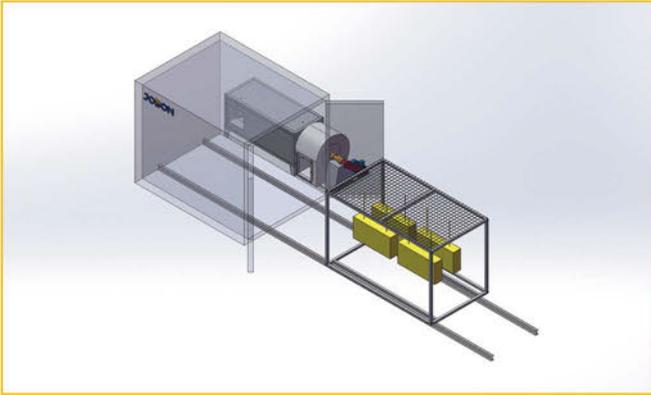
FRC Series Filter Recovery System (Clean Air Exhaust)



1	FRC-03X-1.1	1.1kW	3000m ³ /h	3pcs Filter, 325*900
2	FRC-03U-1.1	1.1kW	3000m ³ /h	3pcs Filter, 325*900
3	FRC-03X-2.2	2.2kW	4000m ³ /h	3pcs Filter, 325*900
4	FRC-03U-2.2	2.2kW	4000m ³ /h	3pcs Filter, 325*900
5	FRC-06X-2.2	2.2kW	6000m ³ /h	6pcs Filter, 325*900
6	FRC-06U-2.2	2.2kW	6000m ³ /h	6pcs Filter, 325*900
7	FRC-06T-2.2	2.2kW	6000m ³ /h	6pcs Filter, 325*900
8	FRC-08X-3.0	3.0kW	9000m ³ /h	8pcs Filter, 325*900
9	FRC-08U-3.0	3.0kW	9000m ³ /h	8pcs Filter, 325*900
10	FRC-08T-3.0	3.0kW	9000m ³ /h	8pcs Filter, 325*900
11	FRC-12U-4.0	4.0kW	13000m ³ /h	12pcs Filter, 325*900
12	FRC-12T-4.0	4.0kW	13000m ³ /h	12pcs Filter, 325*900

OVEN

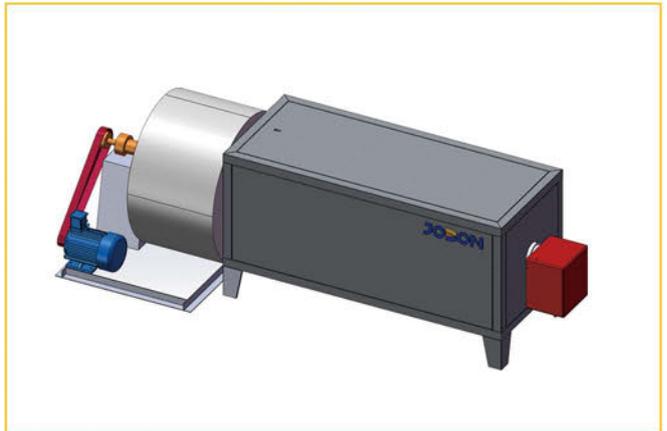
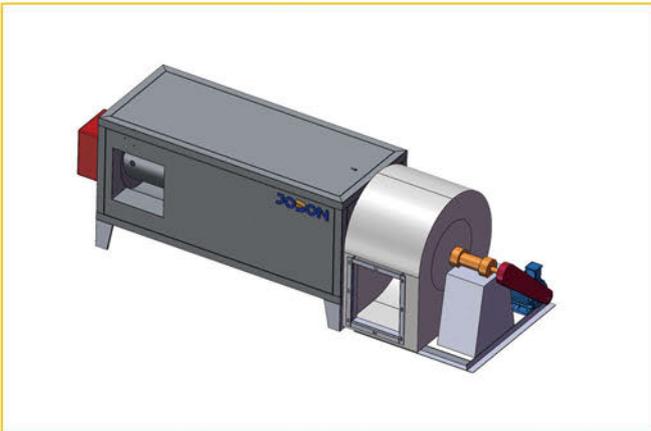
箱式固化炉
Batch Oven



1	1.9mL x 2.4mH x 2.3mW	24kW	/	/
2	2.85mL x 2.4mH x 2.3mW	39kW	ZB-Q10 Gas Heating System	ZB-Y20 Diesel Heating System
3	3.8mL x 2.4mH x 2.3mW	48kW	ZB-Q10 Gas Heating System	ZB-Y20 Diesel Heating System
4	4.75mL x 2.4mH x 2.3mW	63kW	ZB-Q20 Gas Heating System	ZB-Y20 Diesel Heating System
5	5.7mL x 2.4mH x 2.3mW	75kW	ZB-Q20 Gas Heating System	ZB-Y20 Diesel Heating System
6	6.65mL x 2.4mH x 2.3mW	90kW	ZB-Q20 Gas Heating System	ZB-Y20 Diesel Heating System

OVEN

燃气加热系统
GAS Heating System



OVEN

桥式烘道

Bridge Heat Insulation Tunnel Oven



OVEN

风幕保温烘道

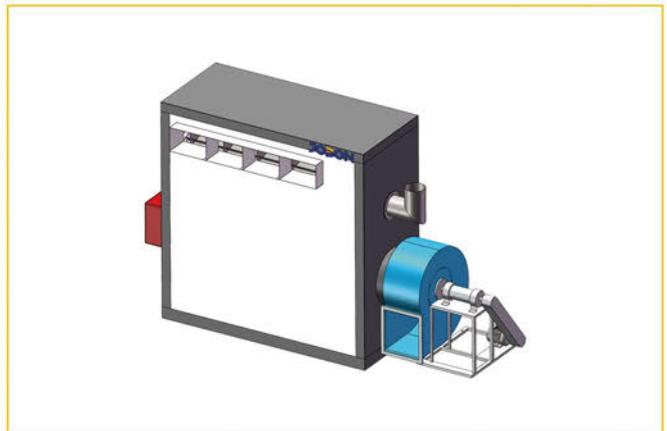
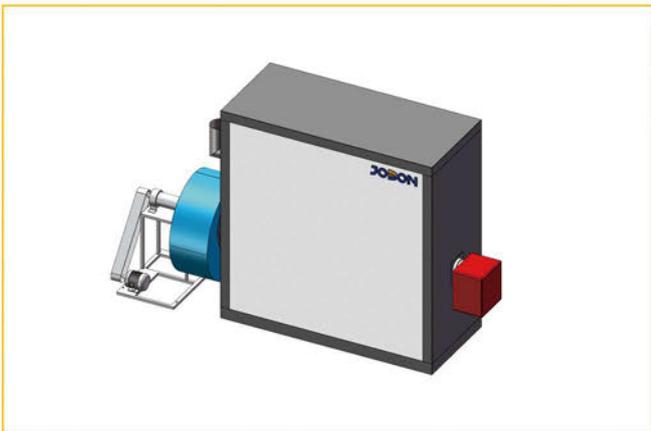
Air Curtain Heat Insulation Tunnel Oven



OVEN

燃油加热系统

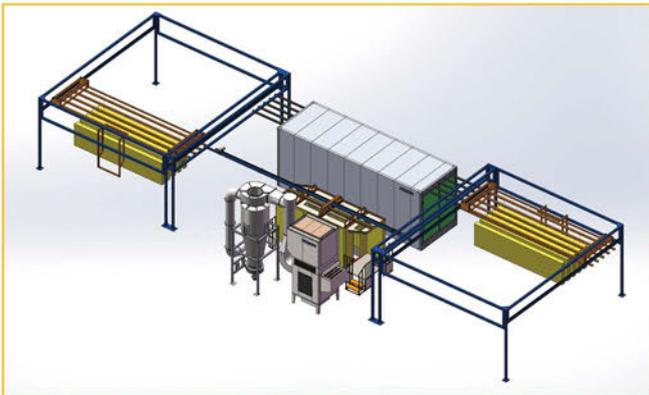
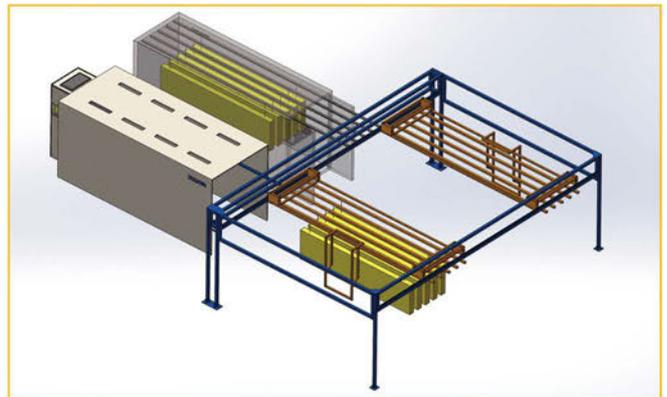
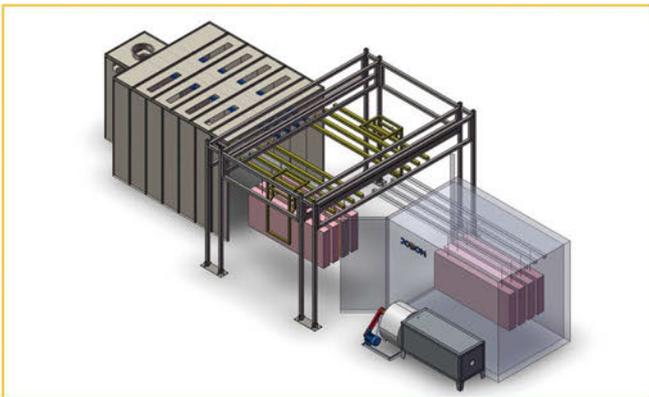
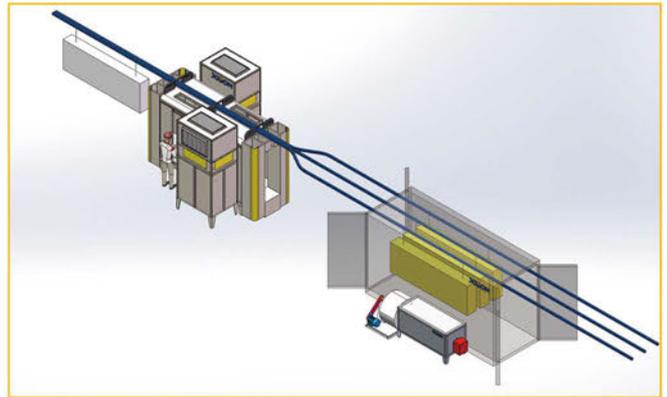
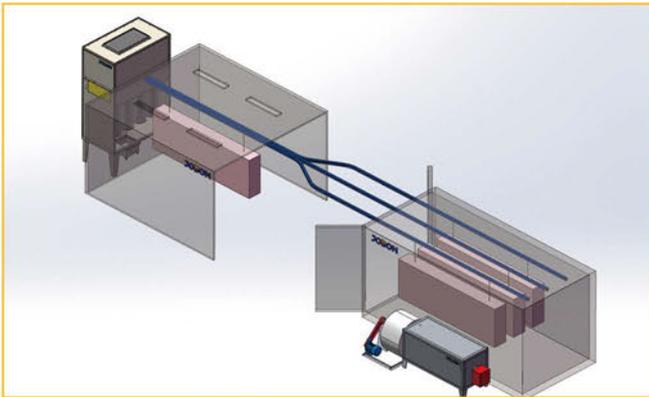
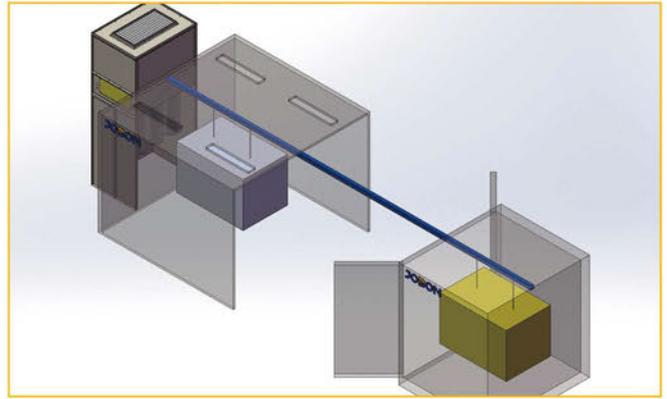
Diesel Heating System



手动喷涂线

Manual Powder Coating Line

POWDER COATING LINE 



直线横移喷涂线

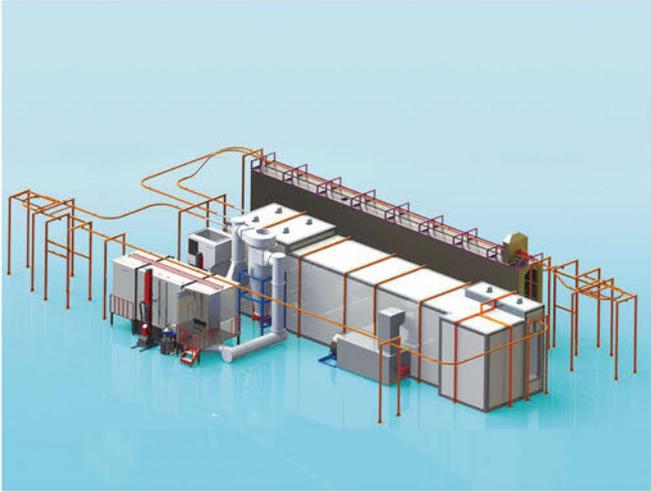
Transverse Conveyor System Powder Coating Line

POWDER COATING LINE 

POWDER COATING LINE

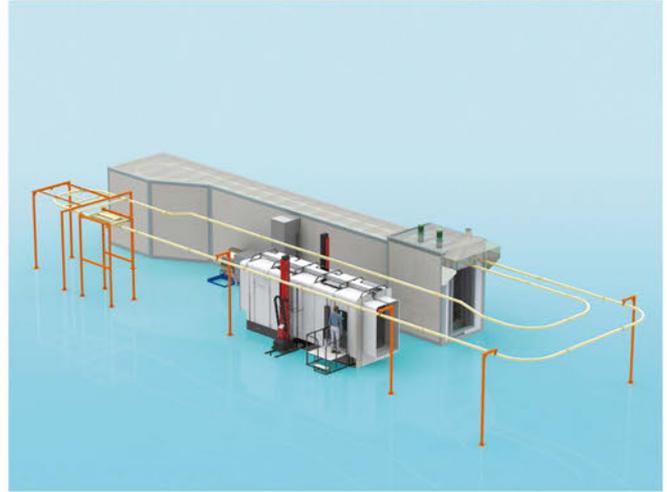
全自动输送链静电粉末喷涂线

Automatic Conveyor Powder Coating Line



全自动带喷淋喷涂线

Automatic Powder Coating Line with Spray Pre-treatment



全自动不带喷淋喷涂线

Automatic Powder Coating Line without Spray Pre-treatment



半自动喷涂线

Semi Automatic Powder Coating Line

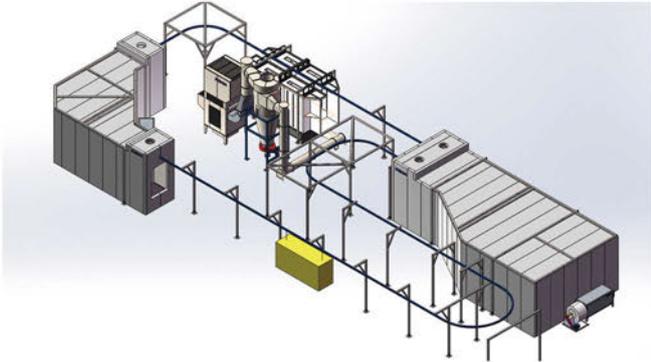


步进式粉末喷涂线

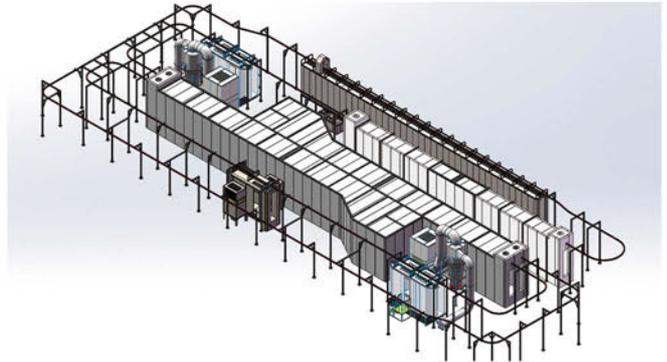
Stepping Powder Coating Line

POWDER COATING LINE

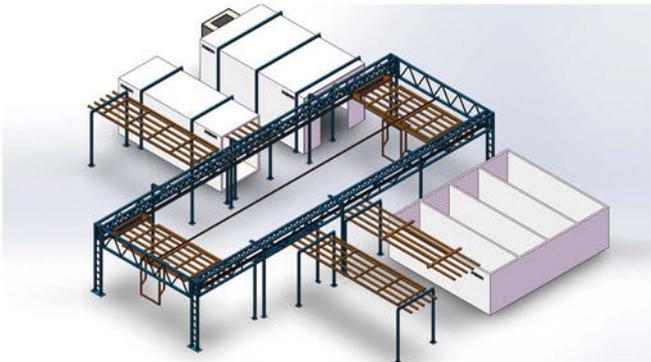
静电粉末喷涂线项目
Powder Coating Line Project



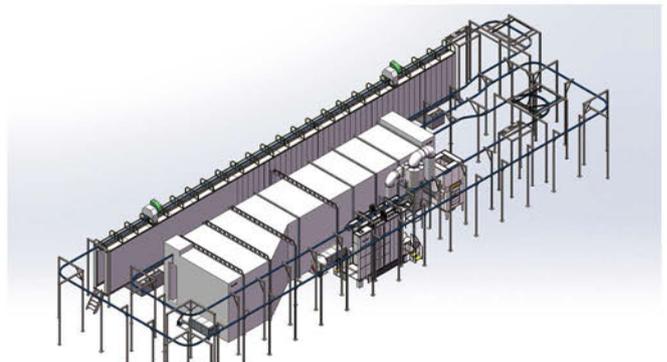
印度全自动喷涂线
Automatic Powder Coating Line in India



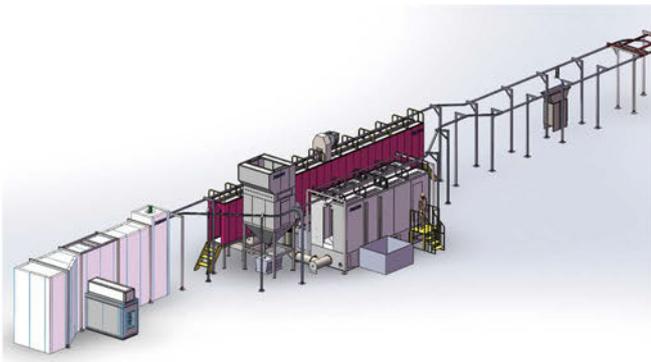
美国全自动喷涂线
Automatic Powder Coating Line in US



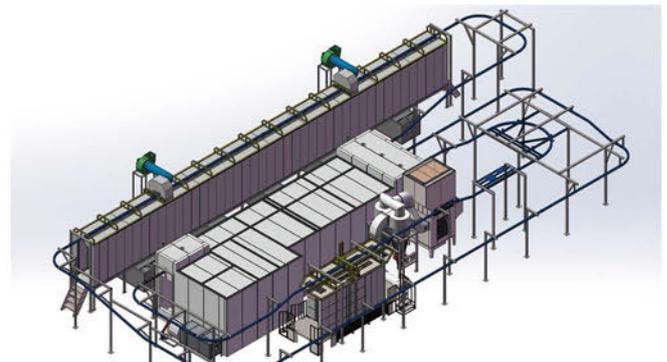
德国手动喷涂线
Manual Powder Coating Line in Germany



俄罗斯全自动喷涂线
Automatic Powder Coating Line in Russia



印尼全自动搪瓷喷涂线
Automatic Enamel Powder Coating Line in Indonesia



丹麦全自动喷涂线
Automatic Powder Coating Line in Denmark

POWDER COATING LINE

立式铝型材喷涂线

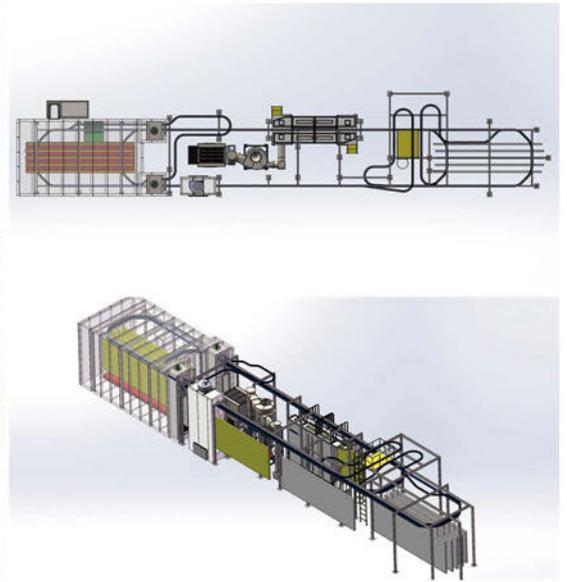
Vertical Aluminum Profile Powder Coating Line



POWDER COATING LINE

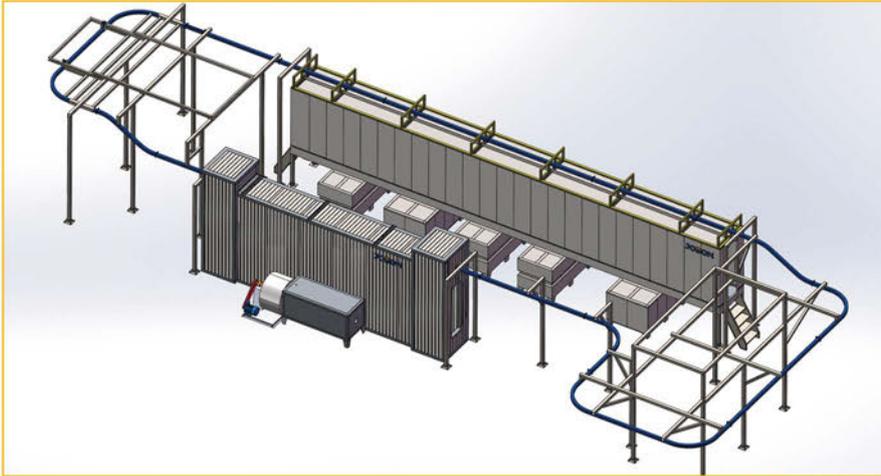
积放喷涂线

Power & Free Chain Powder Coating Line

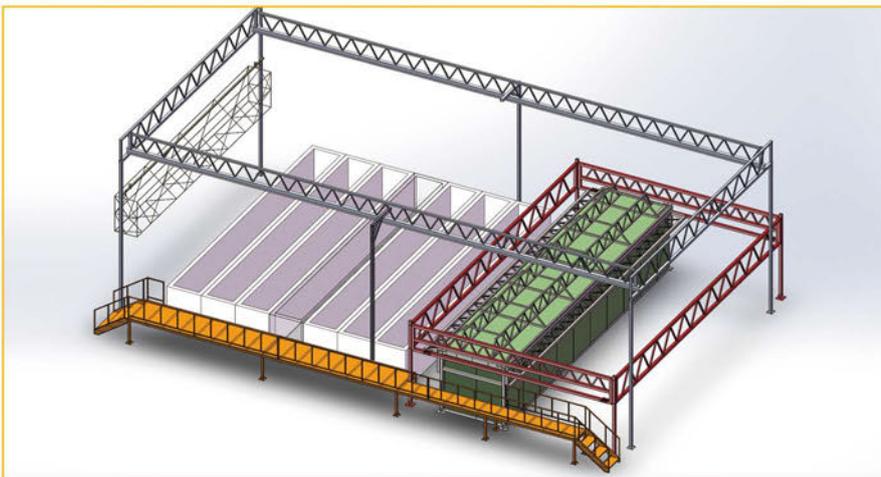


POWDER COATING LINE

前处理线
Pretreatment Line



全自动喷淋前处理
Automatic Spray
Wash Pretreatment



浸泡槽前处理
Dipping Tank Wash
Pretreatment

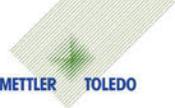
ACADEMIC PAPERS & INDUSTRY STATUS

学术成就及行业地位

- ▶ **美国芝加哥第二十四届国际搪瓷大会发表论文**
A paper was published at the 24th International Enamellers Congress in Chicago USA
- ▶ **第二届中国搪瓷工业新技术、新材料、新装备国际学术论文交流会发表论文**
Papers published at the 2nd International Academic Paper Exchange Conference on New Technologies, New Materials and New Equipment for the China Enamel Industry
- ▶ **日本京都第二十五届国际搪瓷大会发表论文**
A paper was published at the 25th International Enamellers Congress in Kyoto Japan
- ▶ **东华大学研究生培养基地**
Donghua University Postgraduate Training Base
- ▶ **中国表面工程协会理事单位**
The Governing Unit of the China Surface Engineering Association
- ▶ **中国搪瓷工业协会副理事长单位**
Vice Chairman Unit of China Enamel Industry Association
- ▶ **中国搪瓷装备工程技术研究中心**
China Enamel Equipment Engineering Technology Research Center
- ▶ **GB15607《涂装作业安全规程+粉末静电喷涂工艺》标准修订**
GB14773《手持式静电喷枪及其辅助装置安全技术要求》标准修订
Participated in the standard revision of GB15607 "Safety Regulations for Painting Operations + Powder Electrostatic Spraying Process"
Participated in the revision of the standard GB14773 "Safety Technical Requirements for Handheld Electrostatic Spray Guns and Auxiliary Devices"
- ▶ **荣获中国搪瓷40年“最具影响领军人物”奖**
Won the "Most Influential Leader" Award for China Enamel's 40 Years

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Electrostatic Enamel
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