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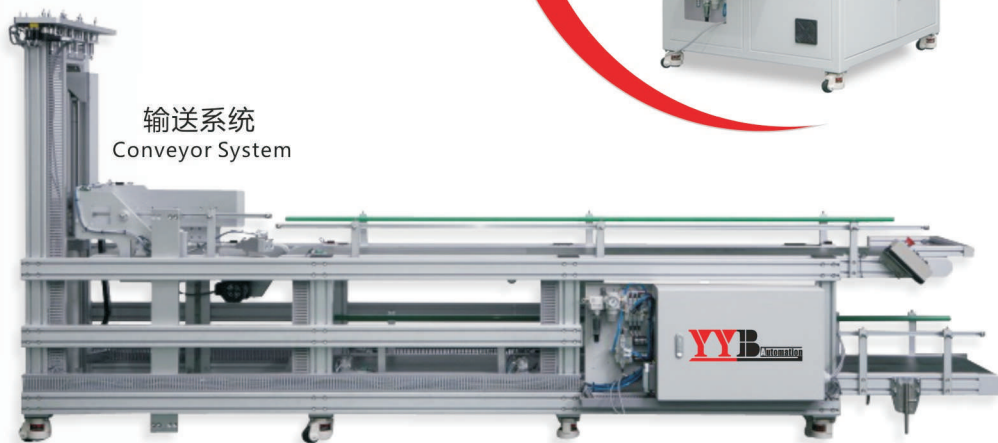
YYB Automation



夹具系统
Gripper System



自动化设备集成
Automation Equipment Integration



输送系统
Conveyor System

昆山永邦自动化设备有限公司

KUNSHAN YYB AUTOMATION EQUIPMENT CO.,LTD.



➔ 企业简介

COMPANY PROFILE

昆山永邦自动化设备有限公司成立于2009年，一直专注于注塑周边、自动化设计、开发、生产和销售为一体的生产厂家。拥有30项专利。以模块化理念让自动化设计更安全，更可靠、更简单、更灵活。企业一直推行ISO质量管理模式，以提供高性价比的解决方案服务于客户，创造客户价值。

Kunshan YYB automation equipment Co., Ltd. was founded in 2009, has been focusing on injection molding peripheral, automation design, development, production and sales as one of the manufacturers. It has 30 patents. With the modular concept, the automation design is safer, more reliable, simpler and more flexible. We have been implementing ISO quality management model to provide cost-effective solutions to serve customers and create customer value.



发展历程

DEVELOPMENT HISTORY

01 2009

成立 昆山永邦自动化设备有限公司
Set up Kunshan YYB Automation Ltd. in 2009

02 2015

获得 高新技术企业 **取得**ISO质量认证
Access to High-tech enterprises
ISO Quality Cetification

03 2016

设立 苏州希瑞格机器人科技有限公司
Set up Suzhou CRG Robotics Technology Co.,LTD

04 2017

设立研发中心
Set up Invention center in 2017

▶ **力量来自于凝聚**
STRENGTH COMES
FROM COHESION



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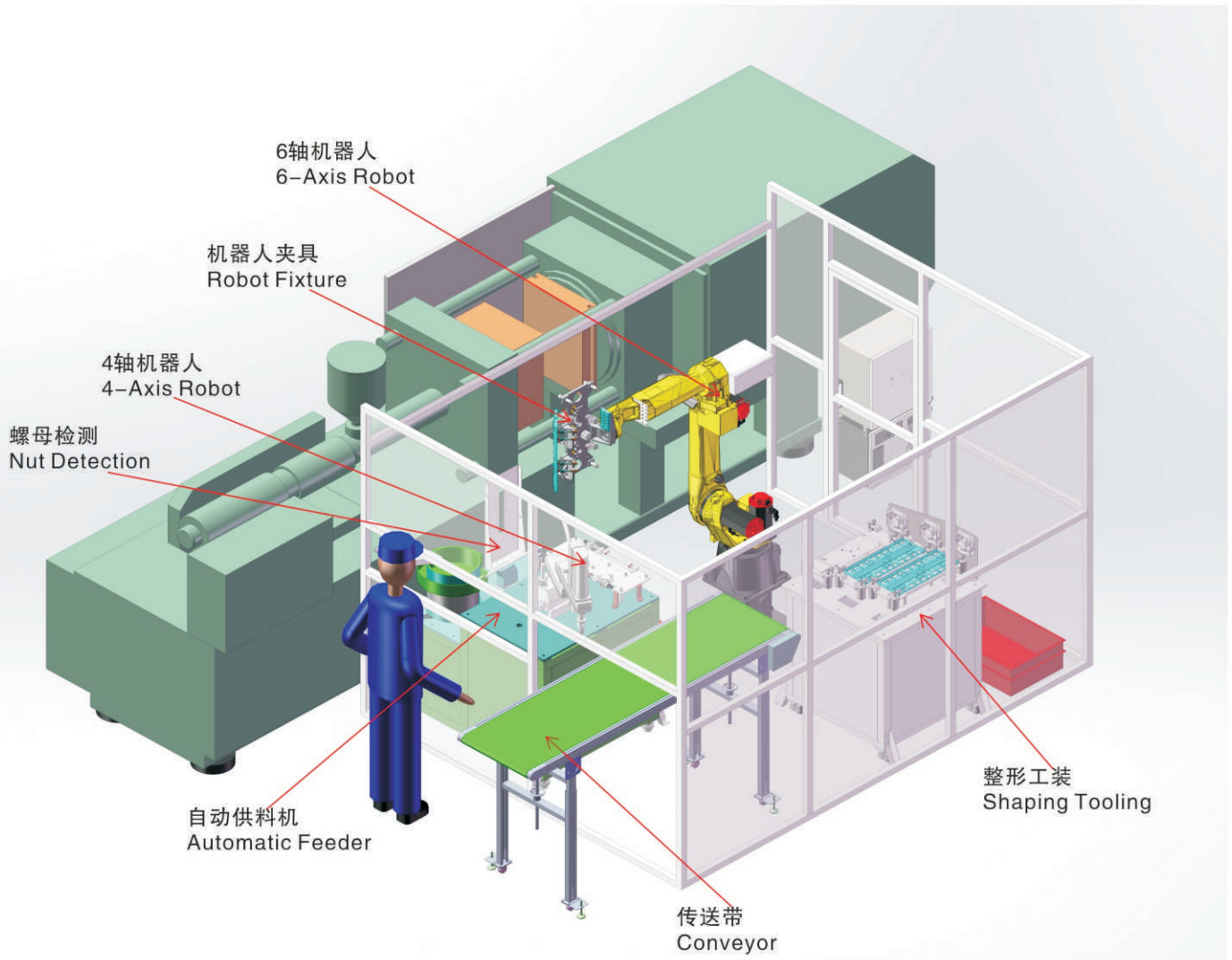


模内嵌件

INSERT MOLDING

➔ 汽车电瓶盖20pcs螺母埋入

Auto Battery Cover 20pcs Nuts Embedded



动作流程:

4轴机器人预摆放→6轴机器人一次性抓取螺母→螺母检测→取出产品→埋入螺母→螺母检测→产品整形→放置传送带

Acting Process:

4-axis robot pre placement → 6-axis robot grabs the nut once → nut detection → takes out the product → embeds the nut → nut detection → product shaping → places the conveyor belt



螺母 nuts

模内嵌件
Insert moulding

医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

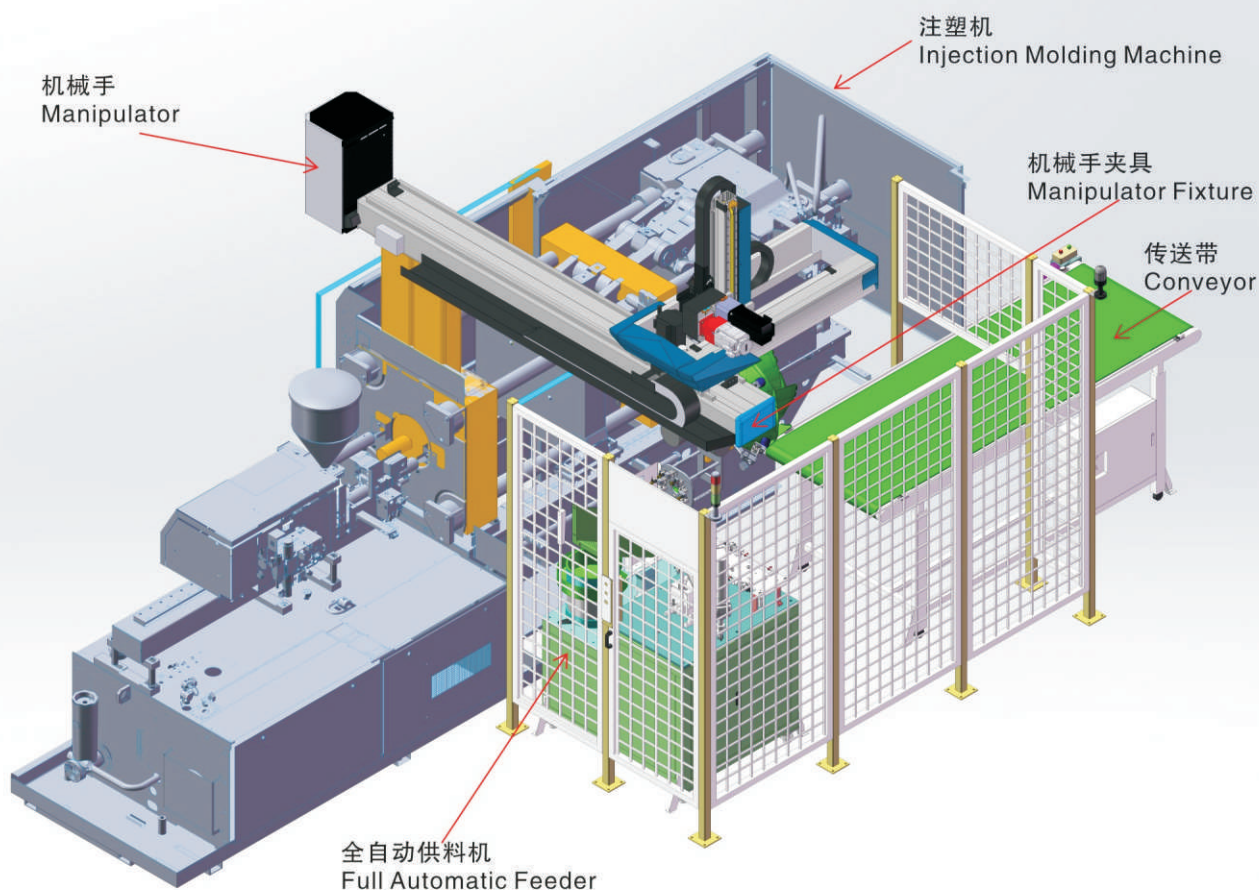
取出夹具&自动剪切
EOAT & Nipper

安全防护&洁净房
Safety & Clean Room

机器人末端工装夹具
CRG-EOAT

➔ 螺母衬套埋入7pcs (机械手)

Nut Bushing Insert 7pcs (Manipulator)



动作流程:

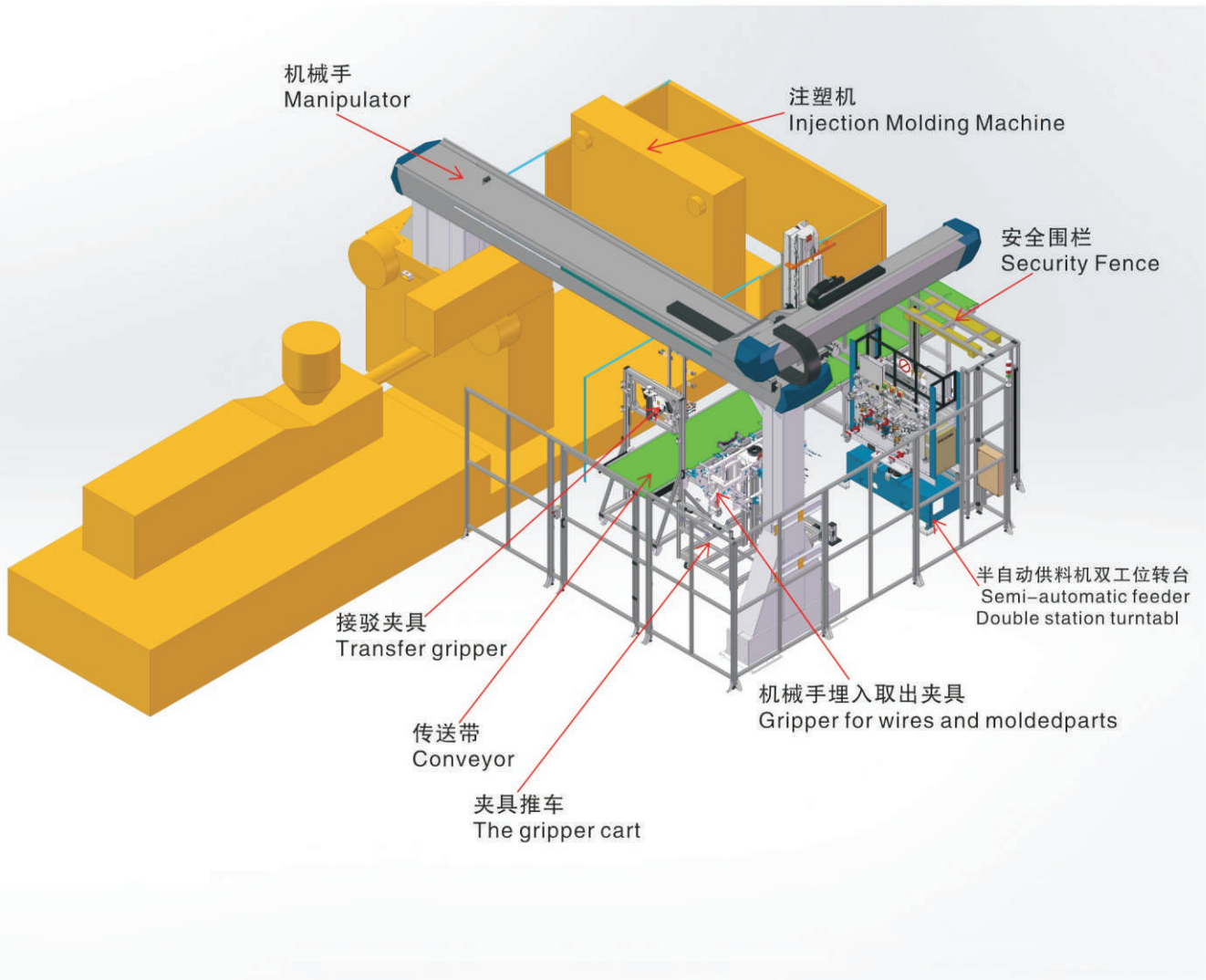
振动盘阵列定点送料→接驳机构将嵌件翻转→机械手夹具取嵌件→机械手运行至模具上方等待开模→注塑机注塑并开模→机械手下行→机械手前行植入嵌件→机械手后退取产品→机械手运行模外→合模注塑→机械手将产品放置输送线→依次循环

Acting Process:

Fixed point feeding of vibrating disk array → turning over the insert by the connecting mechanism → taking the insert by the manipulator fixture → moving the manipulator to the top of the mold and waiting for the mold to be opened → injection molding and mold opening by the injection molding machine → moving the manipulator downward → moving the manipulator forward to implant the insert → moving the manipulator backward to take the product → moving the manipulator out of the mold → mold closing and injection molding → placing the product on the conveyor line by the manipulator → circulates in turn

➔ 前端框架埋入取出 嵌件26pcs

Frame in the front embedded and take out, insert 26pcs



模内嵌件
Insert molding

医疗注塑自动化
Medical Automation

输送收集系统
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取出夹具&自动剪切
EOAT & Nipper

安全防护&洁净房
Safety & Clean Room

机器人末端工装夹具
CRG-EOAT



动作流程:

人工将三种嵌件放置对应位置→半自动材料机旋转180度→机械手移动至供料机→前行取钣金件→机械手后退移动→取铁圈件→机械手后退移动→取嵌件螺母→机械手运行至注塑机等待开模→注塑机开模→机械手下行→机械手移动取产品→机械手移动进入嵌件→机械手运行至模外→注塑机合模→机械手运行至输送线于对接工装对接产品→接驳工装接驳产品旋转放置产品→依次循环

Acting Process:

Manually place the three kinds of inserts in corresponding positions → rotate the semi-automatic material machine 180° → move the manipulator to the feeder → take the sheet metal parts forward → move the manipulator backward → take the iron ring parts → move the manipulator backward → take the insert nut → The manipulator runs to the injection molding machine and waits for the mold to be opened → the injection molding machine opens the mold → the manipulator descends → the manipulator moves to take the product → the manipulator moves to enter the insert → the manipulator moves to the outside of the mold → the injection molding machine closes the mold → the manipulator moves to the conveyor line to butt joint the product with the tooling → the connecting tooling connects the product and rotates to place the product → circulates in turn

➔ 电极针剪切埋入

Cutted And Embedded Electrode Needle

模内嵌件
Insert Moulding

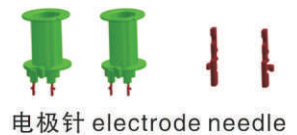
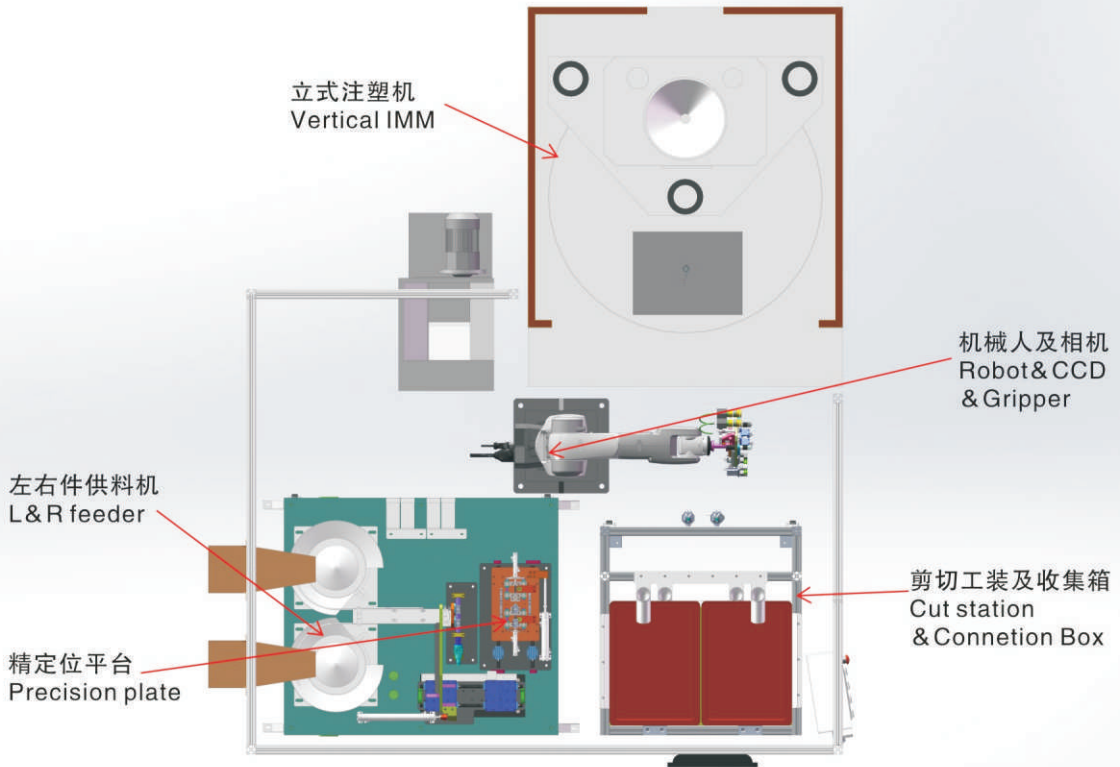
医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

取出夹具及自动剪切
EOAT & Nipper

安全防护及洁净房
Safety & Clean Room

机器人末端工装夹具
CRG EOAT



动作流程:

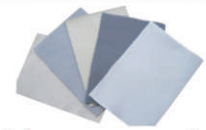
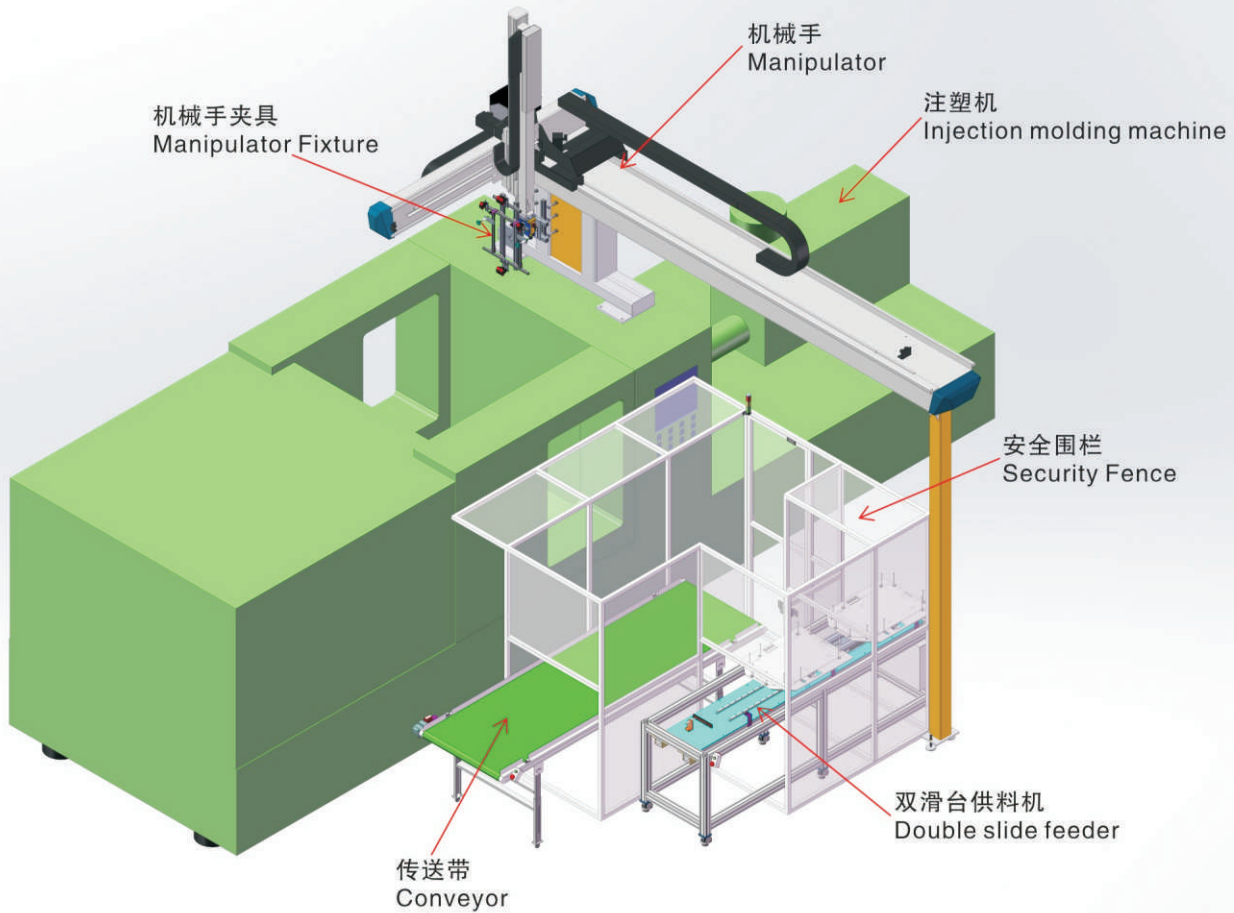
振动盘阵列出嵌件→搬运抓手台把嵌件搬运至精定位平台→机器人取嵌件→等待注塑机开模→注塑机开模旋转→机器人取出产品→机器人旋转进入嵌件→机器人将产品运行至CCD检测嵌件→OK品移动剪切工装剪切水口/(Ng品直接丢弃至不良品盒)→剪切OK后放置产品装箱→依次循环

Acting Process:

The vibration disk array outputs the insert → the handle platform transports the insert to the precise positioning platform → the robot takes the insert → waits for the injection molding machine to open the mold → the injection molding machine to open the mold and rotate → the robot takes out the product → the robot rotates to enter the insert → the robot runs the product to the CCD to detect the insert → the OK product moves to the cutting tool and the cutting nozzle/(ng products are directly discarded to the box of defective products) → after cutting OK, place the products in the box → circulates in turn

→ 无纺布取出埋入

Embedded And Taken Out Nonwoven Fabric



无纺布 non-woven fabric

动作流程:

双滑台供料机放入一定量无纺布→机械手取出无纺布→运行至注塑机等待开模→注塑机开模→机械手下行移动→埋入无纺布→移动取出产品→机械手运行至模外→放置产品至输送线→依次循环

Acting Process:

Put a certain amount of non-woven fabric into the double sliding table feeder → take out the non-woven fabric by the manipulator → run to the injection molding machine and wait for the mold to be opened → open the mold by the injection molding machine → move the manipulator downward → embed the non-woven fabric → move and take out the product → move the manipulator outside the mold → place the product to the conveyor line → circulates in turn

模内嵌件
Insert molding

医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

取出夹具&自动剪切
EOAT & Nipper

安全防护&洁净房
Safety & Clean Room

机器人末端工装夹具
CRG-EOAT

➔ 过滤网取出埋入集成

Embedded And Taken Out Filter Mesh

模内嵌件
Insert Moulding

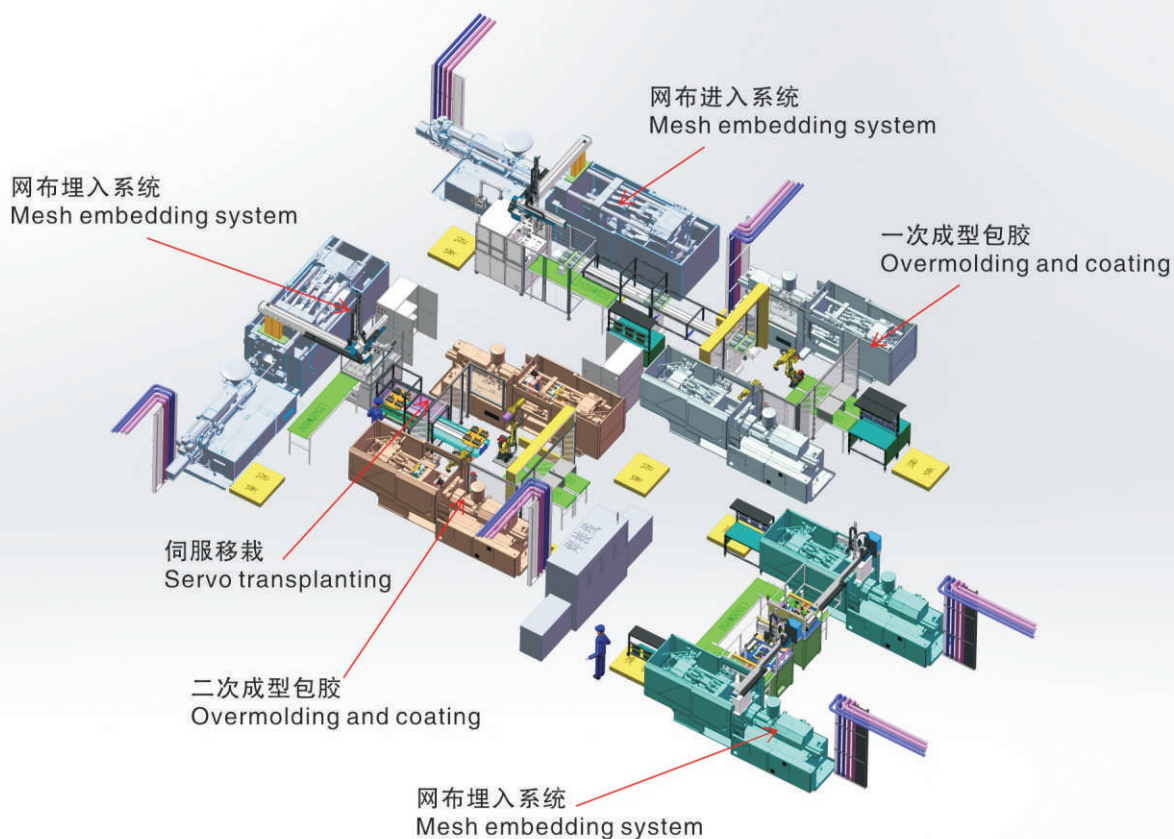
医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

取出夹具&自动剪切
EOAT & Nipper

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Safety & Clean Room

机器人末端工装夹具
CRG EOAT



网布 mesh



过滤网 filter mesh

动作流程:

人工将一定量网布放置供料机→机械手取出网布等待开模→开模→机械手下行移动取出产品→移动埋入网布→机械手运行模外→放置半成品至伺服移栽→伺服移栽滑移到二次成型包胶区→机器人取出半成品→等待注塑机开模→注塑机开模→机器人取出产品→埋入半成品→机器人将成品放置输送线→依次循环

Acting Process:

Manually place a certain amount of mesh on the feeder → take out the mesh by the manipulator and wait for the mold to be opened → open the mold → move the manipulator downward to take out the product → move and embed the mesh → move the manipulator outside the mold → place the semi-finished product to the servo transplanting → servo transplanting and sliding to the secondary molding area → take out the semi-finished product by the robot → wait for the injection molding machine Mold opening → injection molding machine mold opening → robot takes out the product → embeds the semi-finished product → robot places the finished product on the conveyor line → circulates in turn



➤ 医疗注塑自动化
Medical Automation

→ CT15/CT50自动包装线

CT15/CT50 Automatic Packing Line

模内嵌件
Insert Molding

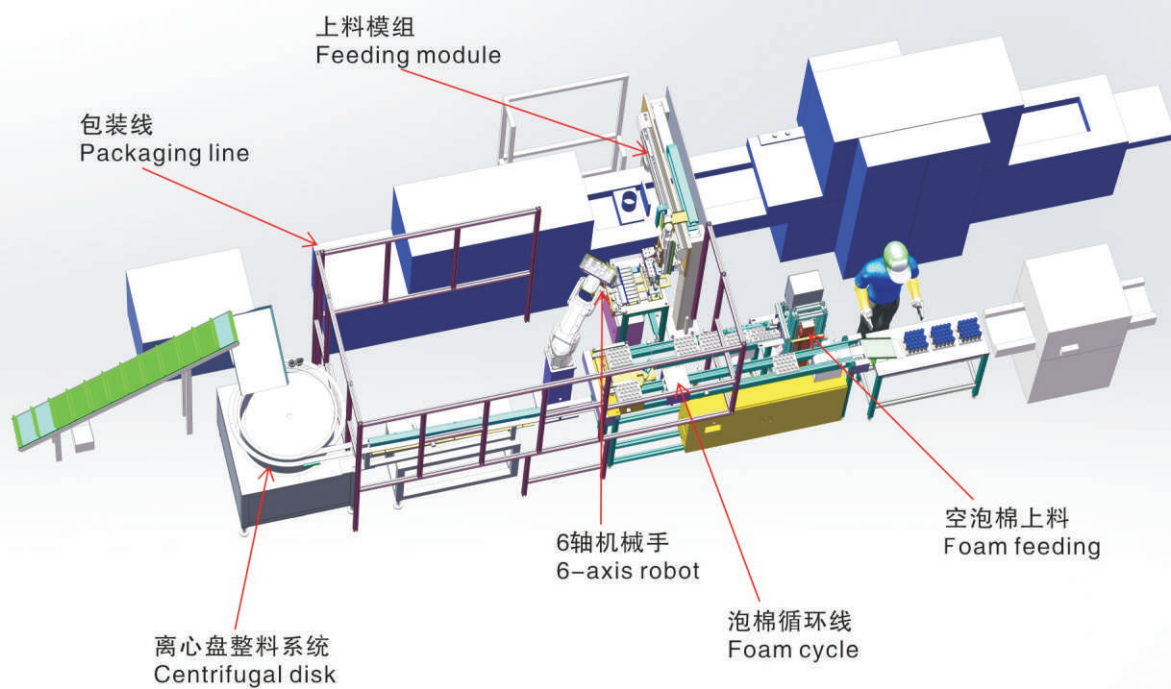
医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

取出夹具&自动剪切
FOAT & Nipper

安全防护&洁净房
Safety & Clean Room

机器人末端工装夹具
CRG FOAT



动作流程:

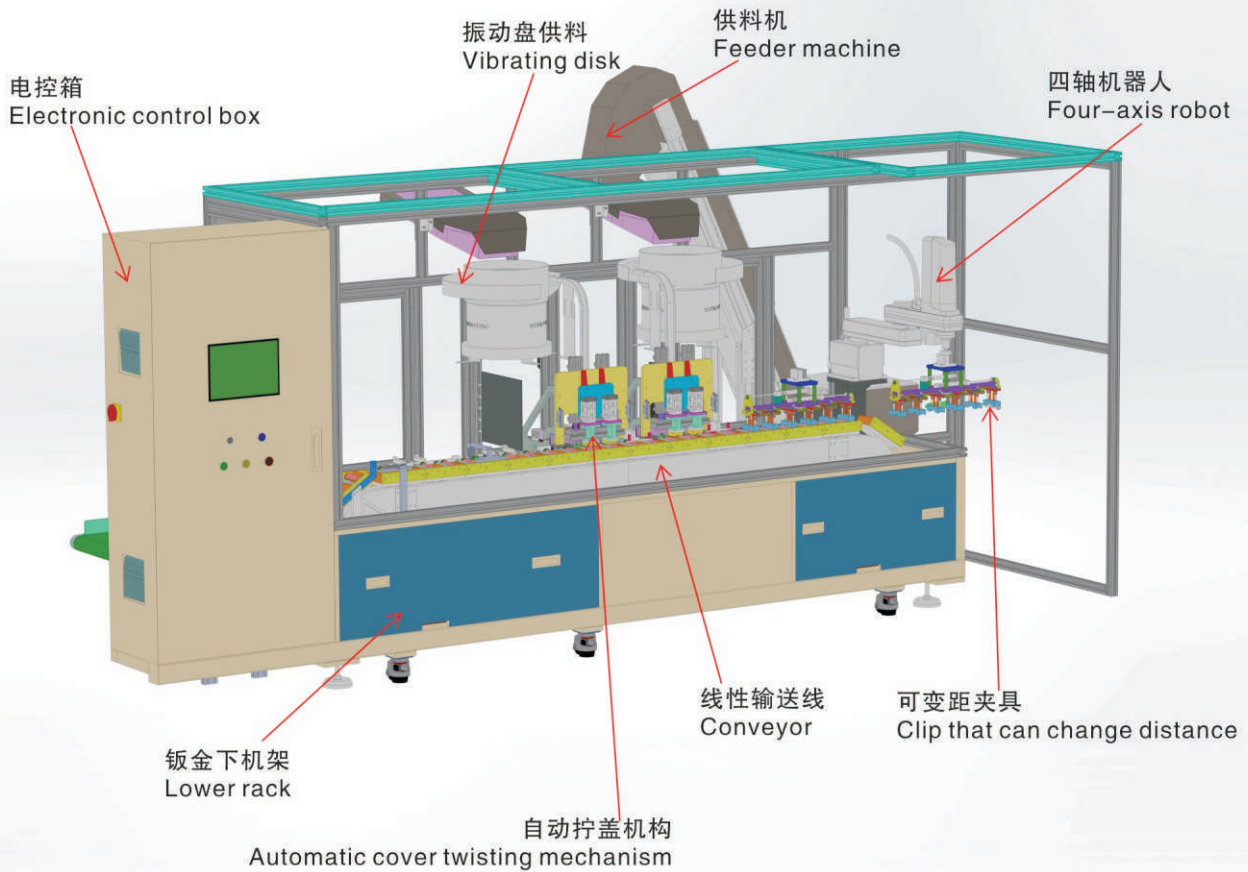
CT15/50瓶胚注塑取出→印刷→自动上盖→整列→包装

Acting Process:

taking out → printing → capping automatically → lining up → packaging

➔ CT15/CT50自动拧盖机

CT15/CT50 Automatic Cover Twisting Machine



动作流程:

印刷 → 四轴机器人上料 → 振动盘供盖 → 自动拧盖 → 检测

Acting Process:

printing → four axis robot feeding → vibrating plate feeding cover → automatic cover screwing → detection

模内嵌件
Insert molding

医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

取出夹具 & 自动剪切
EOAT & Nipper

安全防护 & 洁净房
Safety & Clean Room

机器人末端工装夹具
CRG-EOAT

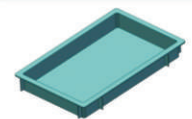
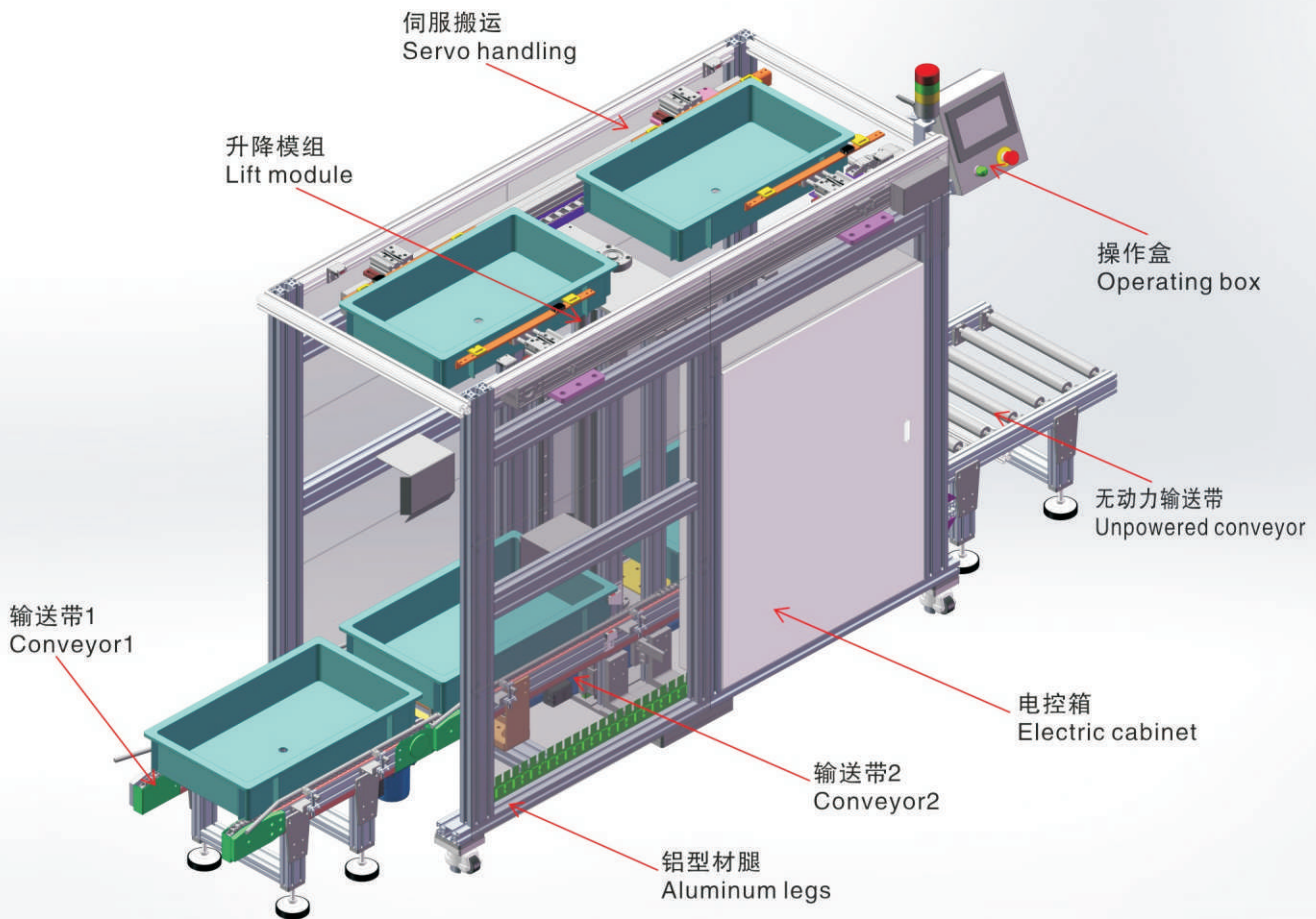


输送收集系统

CONVEYOR SYSTEM

伺服换箱机

Servo Changing Machine



周转箱 turnover box

产品描述:

空箱堆叠进料，电动升降供箱，伺服搬运箱子收料，满箱电动升降堆叠，满箱自动输出，非常适合在注塑机边工作，提高注塑机自动化无人生产时间，节省人员。

Product Description:

Empty box stacked, supply boxes by electric lifting, servo carrying box with products, full box electric lifting and stacking, full box automatic output. It is very suitable for working at the side of injection molding machine, improving the automatic production time of injection molding machine and saving personnel.

模内嵌件
Insert molding

医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

取出夹具 & 自动剪切
EOAT & Nipper

安全防护 & 洁净房
Safety & Clean Room

机器人末端工装夹具
CRG-EOAT

➔ 输送带式自动三工位排列机 标准款

Conveyor Belt Type Automatic Arranging Machine(three Stations) Standard

模内嵌件
Insert Moulding

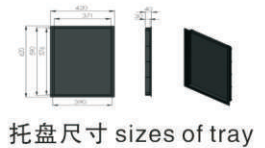
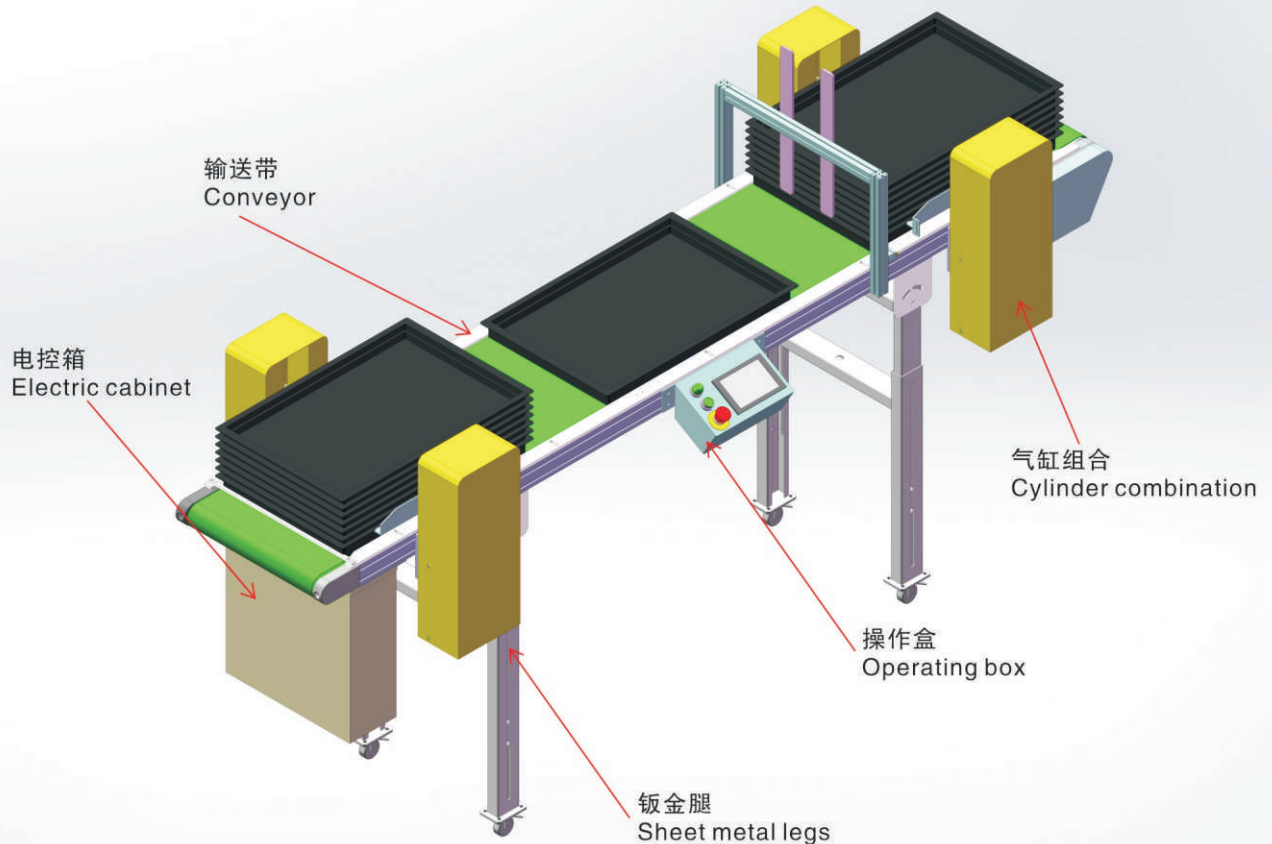
医疗注塑自动化
Medical Automation

输送带收集系统
Conveyor System

取出夹具&自动剪切
FOAT & Nipper

安全防护&洁净房
Safety & Clean Room

机器人末端工装夹具
CRG FOAT



产品描述:

电压、功率、负载

制作方法: ①自动放盘

②塑盘定位→收集产品或供料

③自动收盘

Product Description:

Voltage, power, load

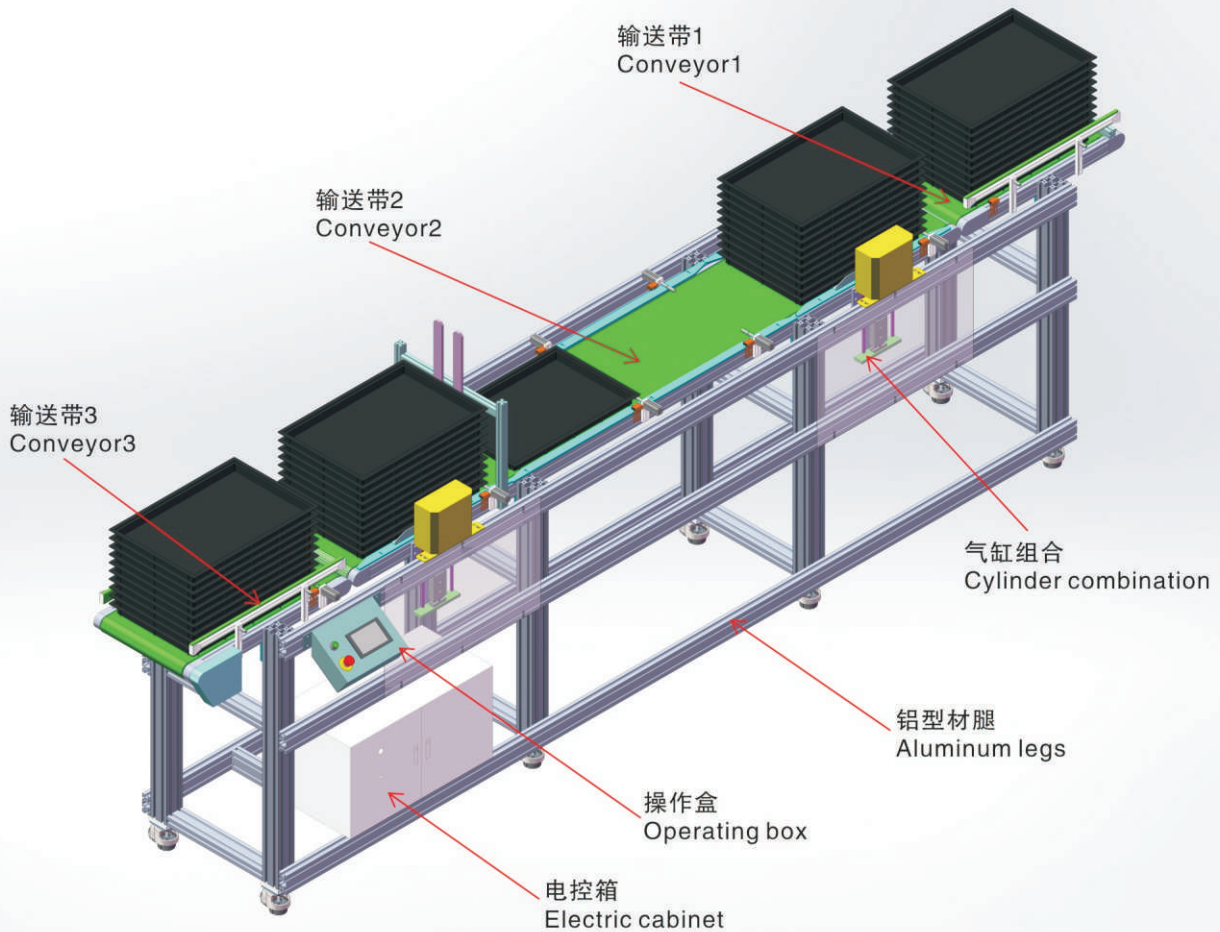
Method: ①play tray automatically

②Plastic disk positioning → collecting products or feeder

③collect tray automatically

→ 输送带式自动五工位排列机 标准款

Conveyor Belt Type Automatic Arranging Machine(five Stations) Standard



标准机为三工位，可扩展五工位、七工位

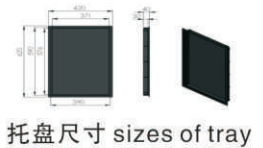
The standard machine has three stations, and can be expanded to five or seven stations

产品描述:

标准三工位的扩展应用;
增加送盘工位和收盘工位;
提高收集周转时间。

Product Description:

Expand the application of standard three stations;
increase the delivery station and closing station;
improve the collection turnaround time.



模内嵌件
Insert molding

医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

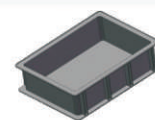
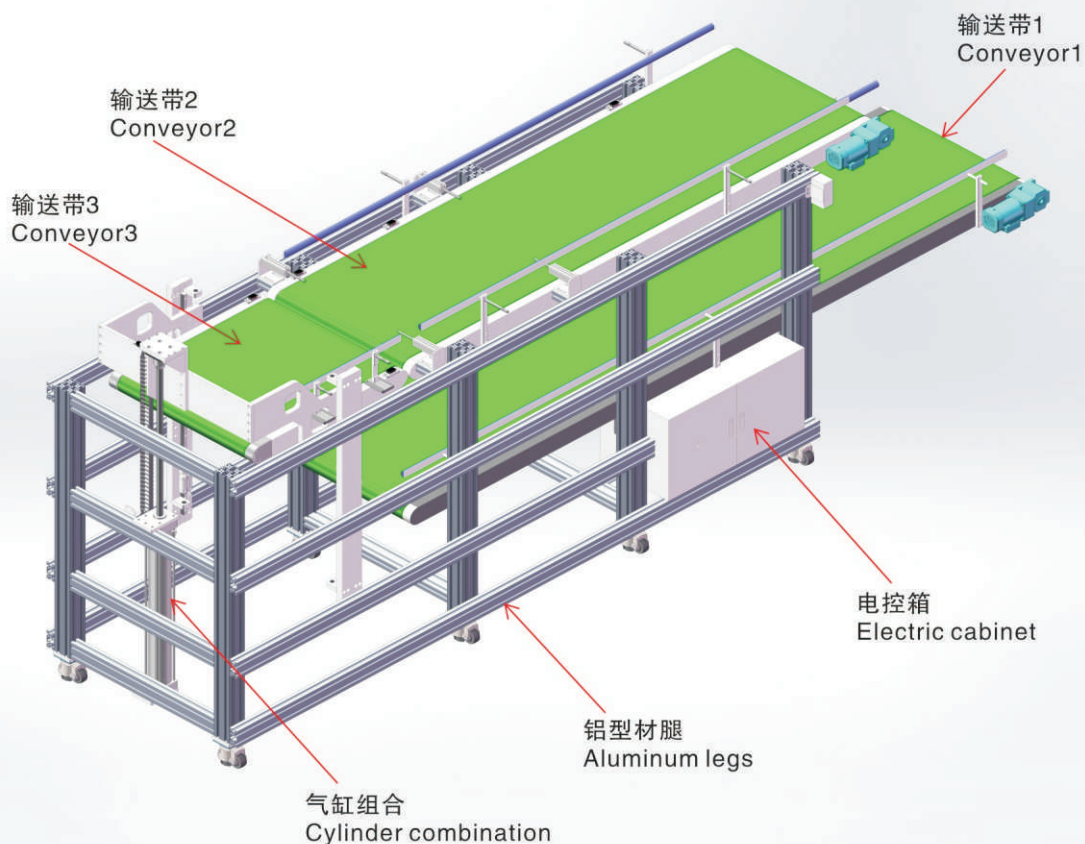
取出夹具&自动剪切
EOAT & Nipper

安全防护&洁净房
Safety & Clean Room

机器人末端工装夹具
CRG-EOAT

→ 双层输送带式换箱机 标准款

Double Layer Belt Type Case Changer Standard



周转箱 turnover box

产品规格描述:

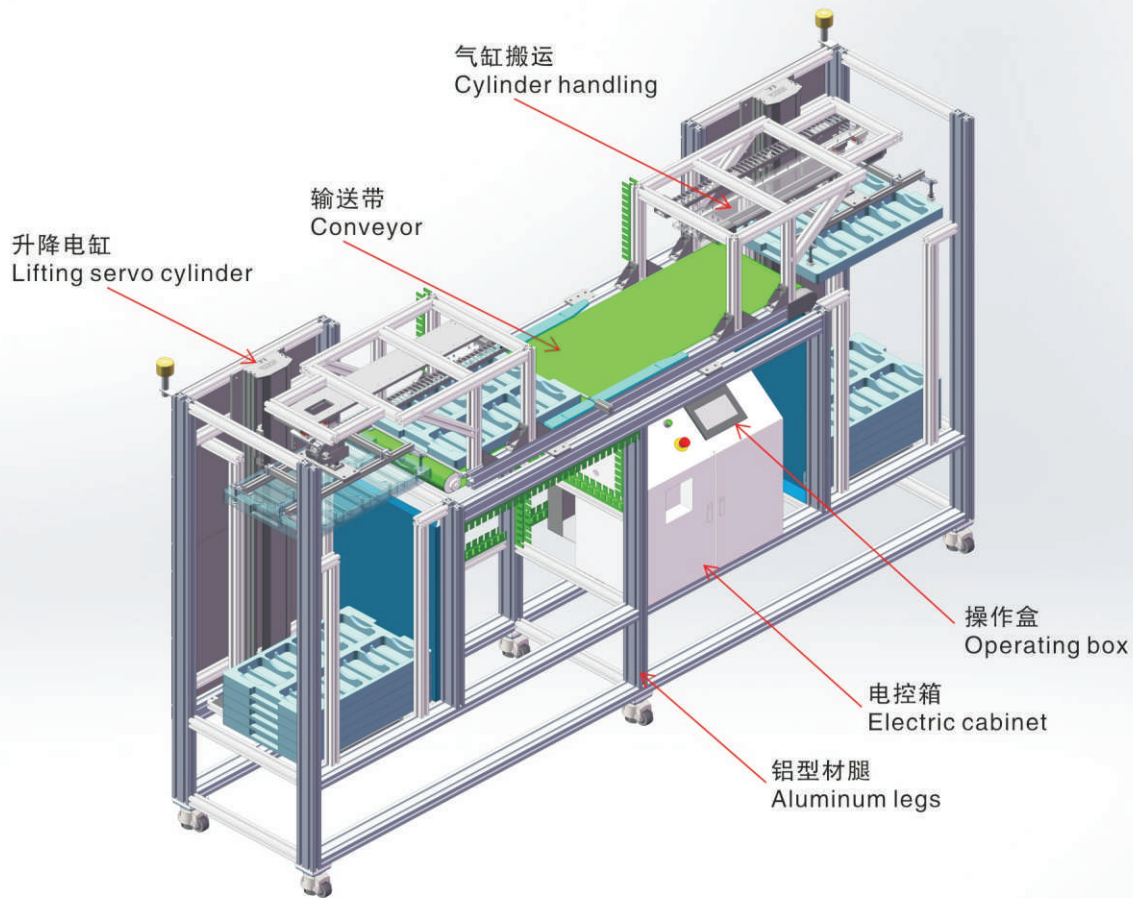
双层输送带分别进空箱或出满箱;
可升降输送带对接双层输送;
可用于纸箱、塑料箱等自动换箱产品收集应用, 非常适合在注塑机边工作, 也可集成在自动化项目中

Product Description:

The double-layer conveyor belt enters the empty box or leaves the full box respectively;
The lifting conveyor belt is connected to the double-layer conveyor;
It can be used in the collection and application of cartons, plastic boxes and other automatic case changing products. It is very suitable for working at the side of injection molding machine, and can also be integrated in the automation project

→ 搬运换箱机

Portable Box Changer



吸塑盘 suction cup

产品规格描述:

吸塑盘伺服升降供给，气动搬运吸塑盘至传送带，机械手产品释放位自动定位，满盘伺服升降收集，非常适合在注塑机边工作，提高注塑机自动化无人生产时间，节省人员

Product Description:

Servo lifting supply of suction cup, pneumatic conveying of suction cup to conveyor belt, automatic positioning of manipulator product release position, full servo lifting collection. It is very suitable for working at the side of injection molding machine, improving the automation of injection molding machine and saving time and personnel

模内嵌件
Insert molding

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取出夹具 & 自动剪切
EOAT & Nipper

安全防护 & 洁净房
Safety & Clean Room

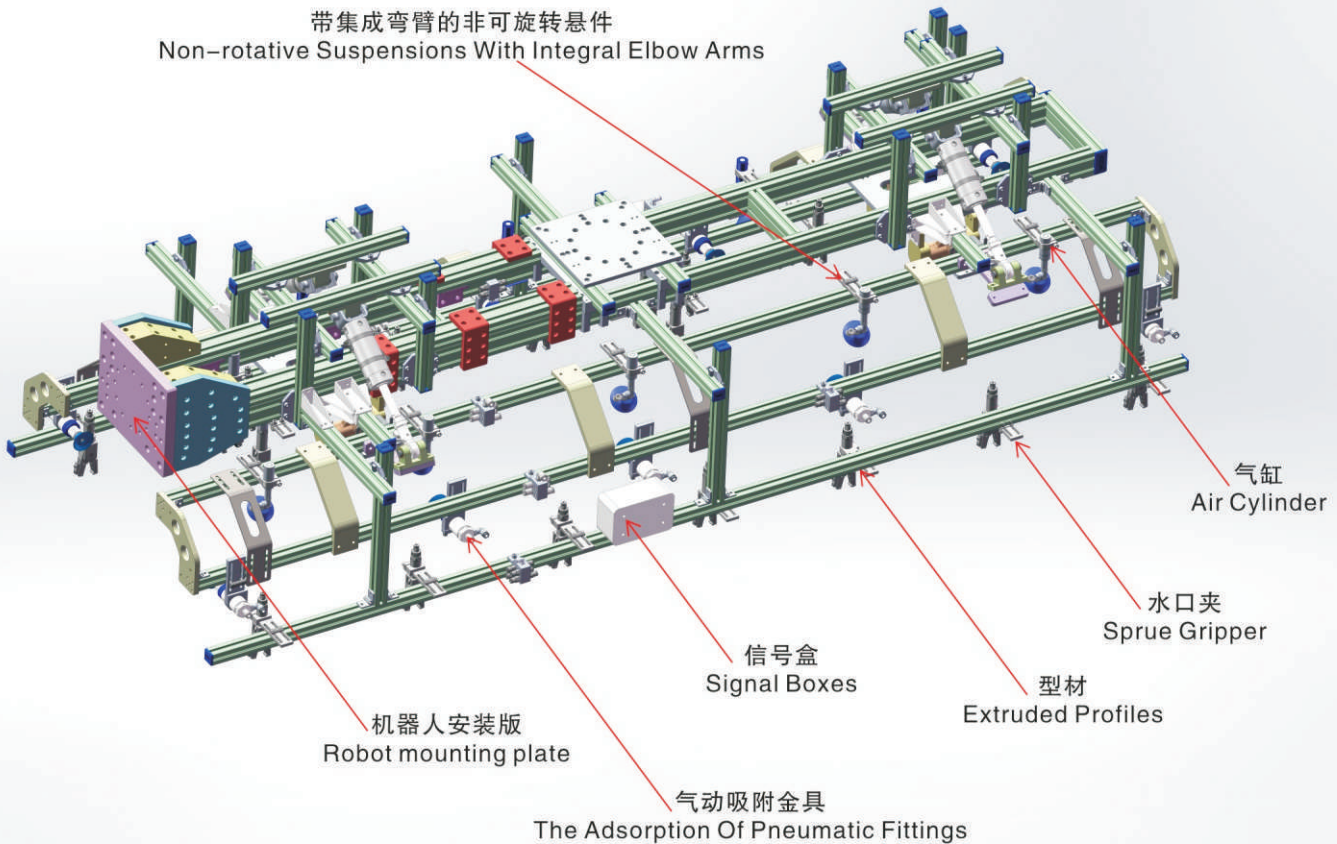
机器人末端工装夹具
CRG-EOAT



➤ 取出夹具&自动剪切
EOAT & NIPPER

➔ 汽车门槛条取出治具

Fixture Of Take Out For Car Threshold Strip



产品描述:

治具名称: 汽车门槛条取出治具

机台吨位: 2700T

治具重量: 80KG

料头数量: 14个

汽车门槛条分为左右件, 产品内有很长倒扣, 顶出后无法水平取出, 本产品采用无痕吸盘吸附, 夹具具备旋转功能, 可将产品顺利取出。

Product Description:

Tool Name: Fixture of take out for car threshold strip

Machine tonnage: 2700T

Weight of fixture: 80kg

Sprue quantity: 14

The car threshold strip is divided into left and right parts. There has long under-cut in the product which can not be taken out horizontally after being ejected. The product is absorbed by non-marking suction cup, and the fixture has the function of rotation, so the product can be taken out smoothly.

模内嵌件
Insert moulding

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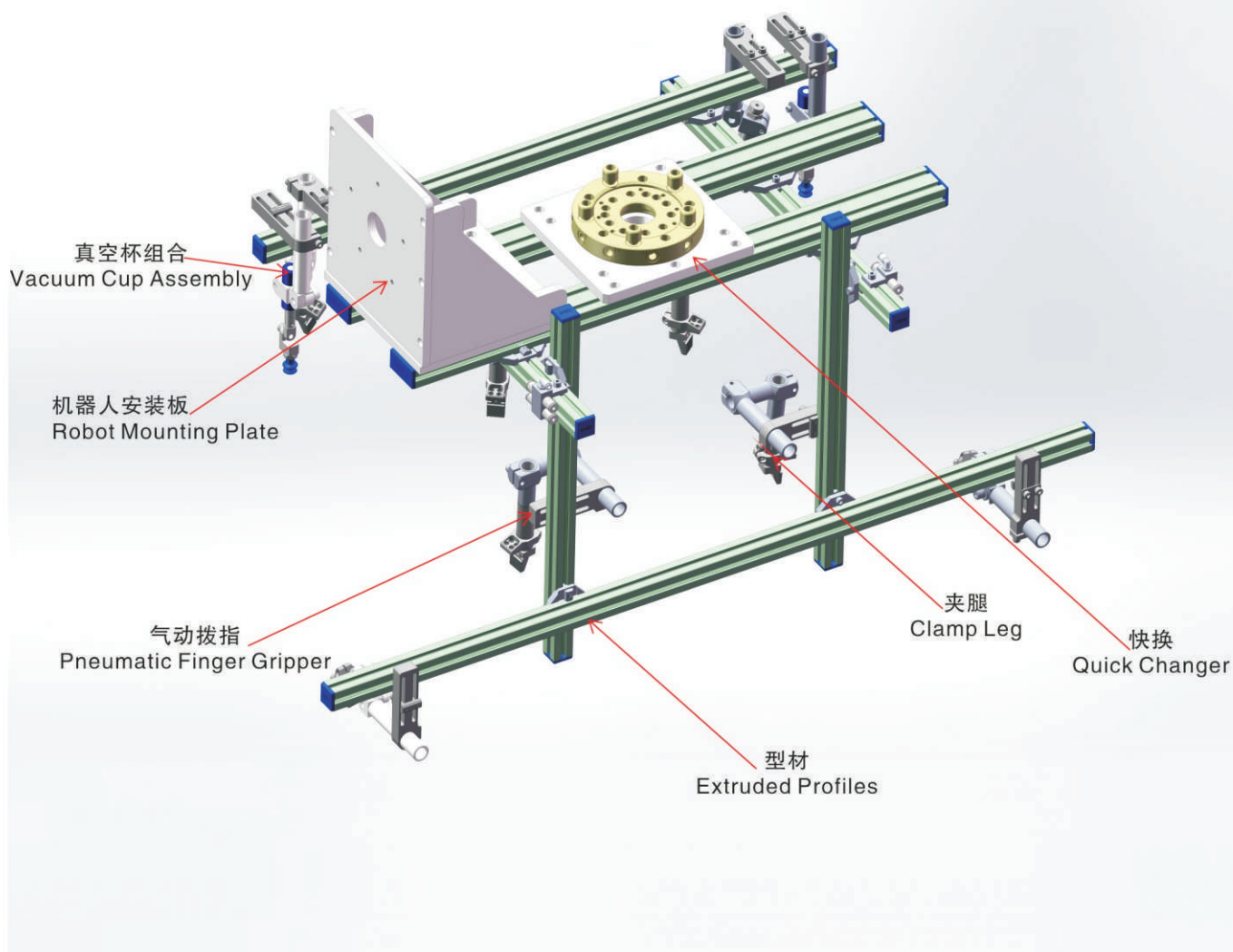
取出夹具 & 自动剪切
EOAT & Nipper

安全防护 & 洁净房
Safety & Clean Room

机器人末端工装夹具
CRG-EOAT

➔ 汽车车门配件取出

Fixture Of Take Out For Parts Of Car Door



产品描述:

治具名称: 汽车车门配件取出

机台吨位: 800T

治具重量: 20KG

主要特点: 此产品由于结构原因脱模需求力度大, 治具内采用了拔指辅助脱模

Product Description:

Name of fixture: Fixture of take out for parts of car door

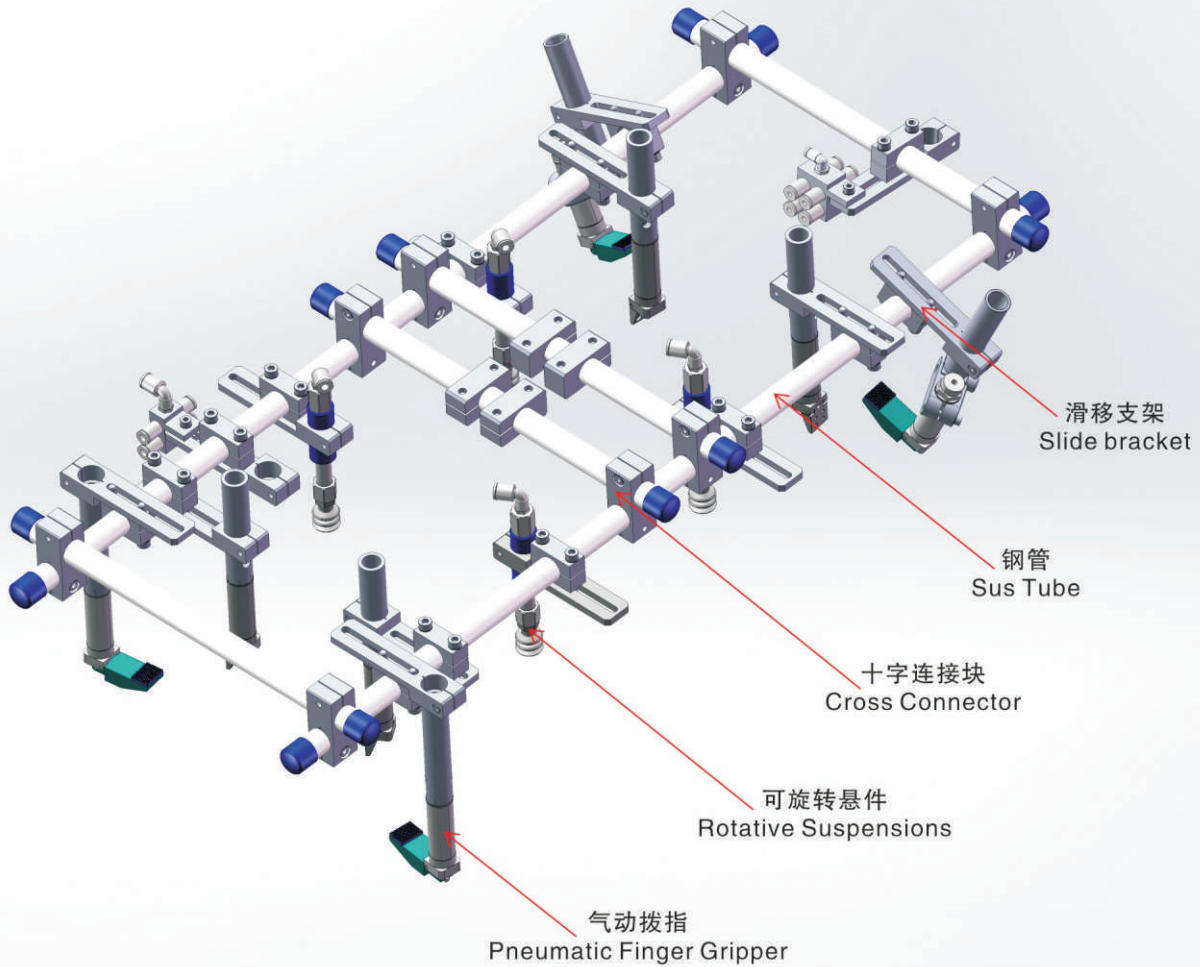
Machine tonnage: 800T

Weight of fixture: 20KG

Main feature: this product can't be demoulding smoothly because of the structure, and finger gripper is used to assist demoulding in the fixture

➔ 汽车内饰系取出治具

Fixture Of Take Out For Automotive Interior



产品描述:

治具名称: 汽车内饰系取出治具

机台吨位: 650T~800T

治具重量: 12KG

主要特点: 拔指辅助脱模, 吸盘确认, 钢棒结构更容易调整角度

Product Description:

Name of fixture: Fixture of take out for automotive interior

Machine tonnage: 650T~800T

Weight of fixture: 12KG

Main feature: finger gripper is used to assist demoulding; confirm product by vacuum cup; the structure of sus-tube is more easier to adjust

模内嵌件
Insert molding

医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

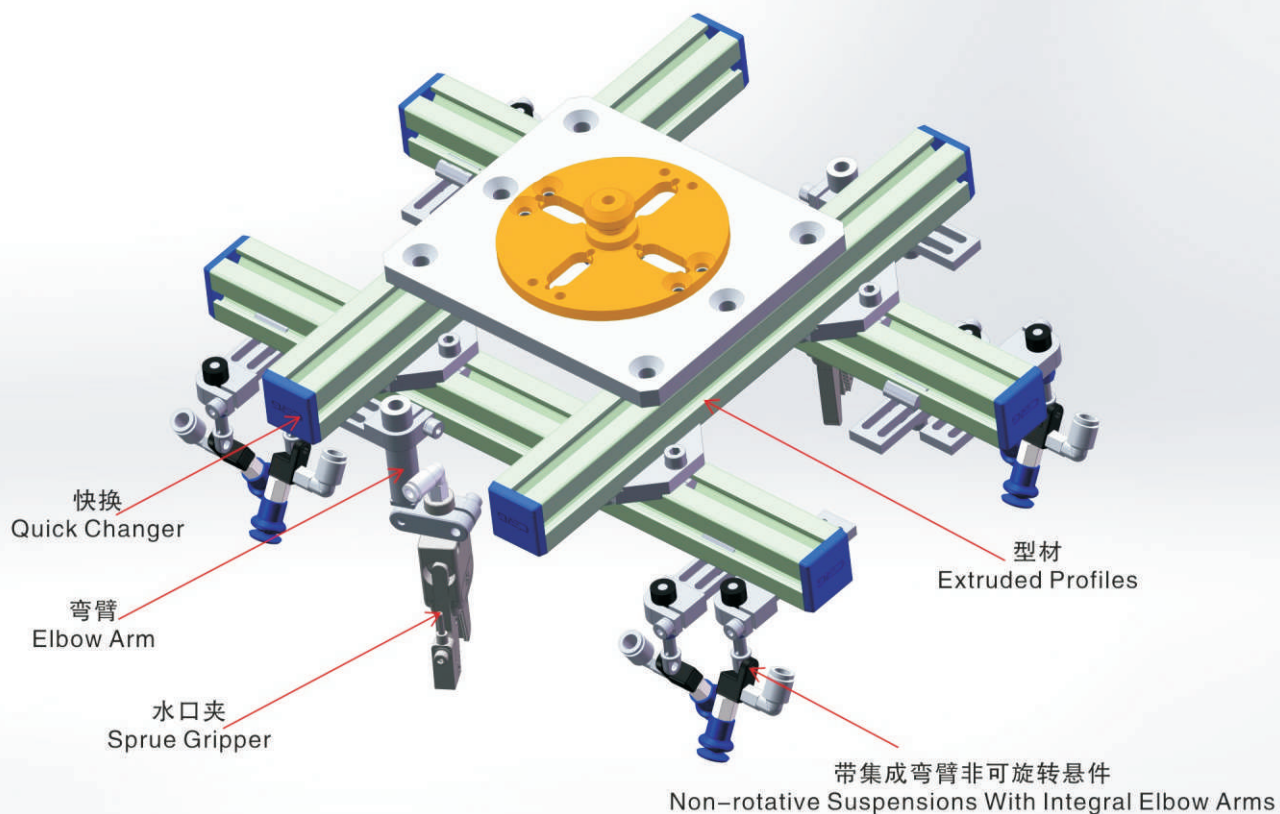
取出夹具 & 自动剪切
EOAT & Nipper

安全防护 & 洁净房
Safety & Clean Room

机器人末端工装夹具
CRG-EOAT

➔ 圆弧类电子产品取出

Fixture Of Take Out For Arc-shaped Electronic Product



产品描述:

治具名称: 圆弧类电子产品取出

机台吨位: 300T

治具重量: 6KG

料头数量: 2PCS

主要特点: 产品为圆弧产品, 需要吸盘角度可调, 所以夹具角度可调弯臂取出产品

Product Description:

Name of fixture: Fixture of take out for arc-shaped electronic product

Machine tonnage: 300T

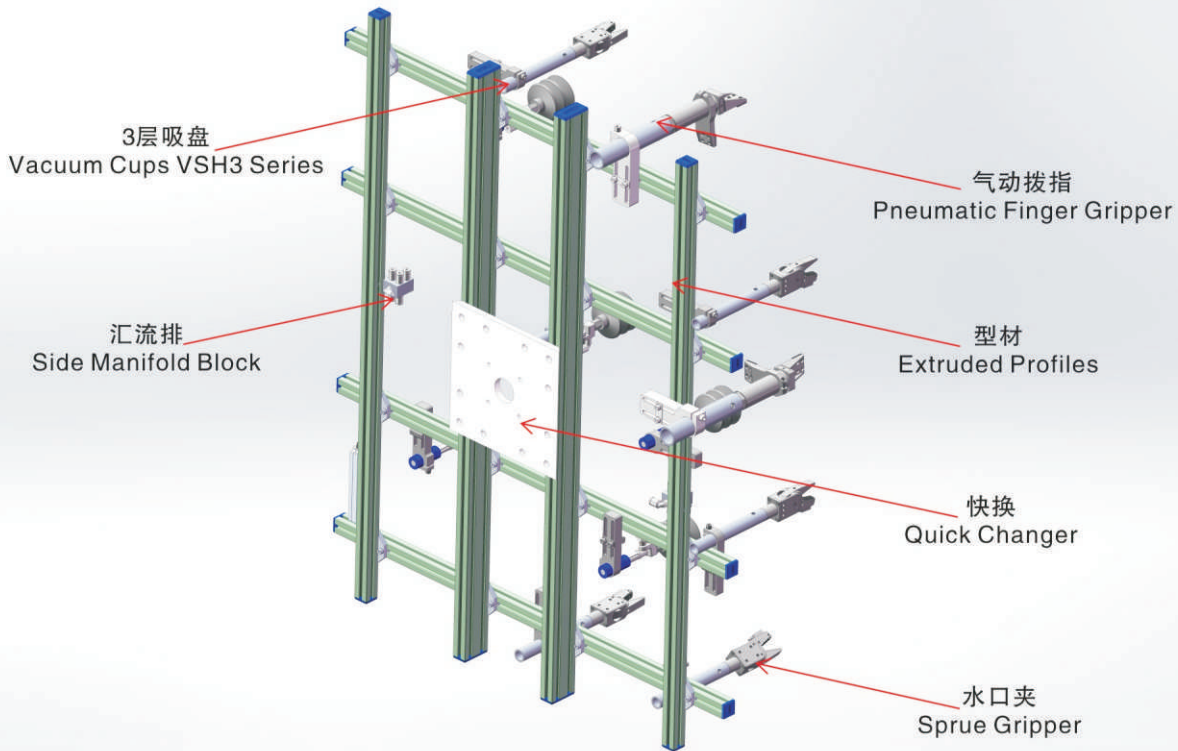
Weight of fixture: 6KG

Sprue quantity: 2PCS

Main feature: arc-shaped product requires the angle of suction cup can be adjusted, so the angle of the clamp is adjusted and the bending arm takes out the product.

➔ 汽车车门取出治具

Fixure Of Take Out For Car Door



汽车门 Auto door

产品描述:

治具名称: 汽车车门取出治具
机台吨位: 800T~1000T
治具重量: 14KG
料头数量: 8PCS

Product Description:

Name of fixture: Fixure of take out for car door
Machine tonnage: 800T-1000T
Weight of fixture: 14KG
Sprue quantity: 8PCS

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➔ 保险杠取出治具

Fixture Of Take Out For Bumper

模内嵌件
Insert Molding

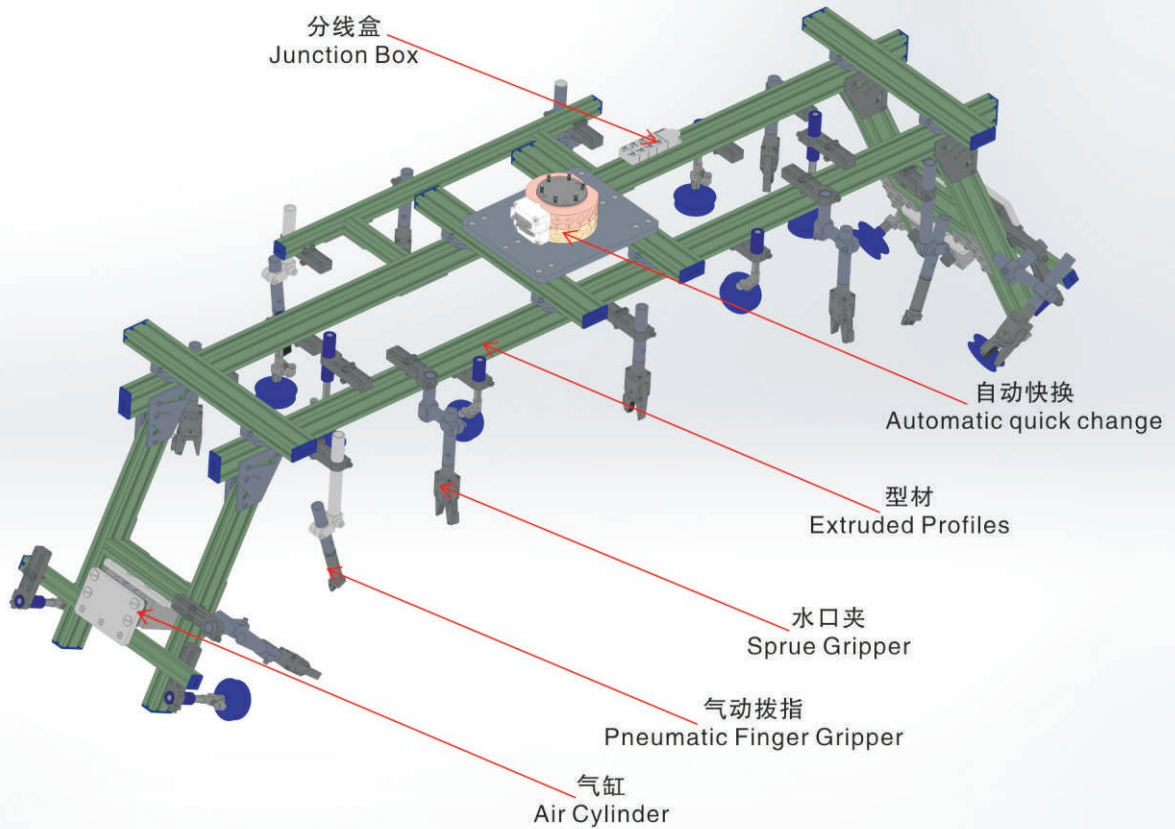
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Medical Automation

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Conveyor System

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CRG FOAT



保险杠 Bumper

产品描述:

治具名称: 保险杠取出治具

机台吨位: 1800T

治具重量: 20KG

料头数量: 8个

产品无法顺利脱模, 需配备气缸侧拉辅助, 产品接触面采用无痕吸盘, 夹持接触部位采用软胶垫, 并使用角度可调多功能弯臂完成夹取。

Product Description:

Fixture Name: Fixture of take out for bumper

Machine tonnage: 1800T

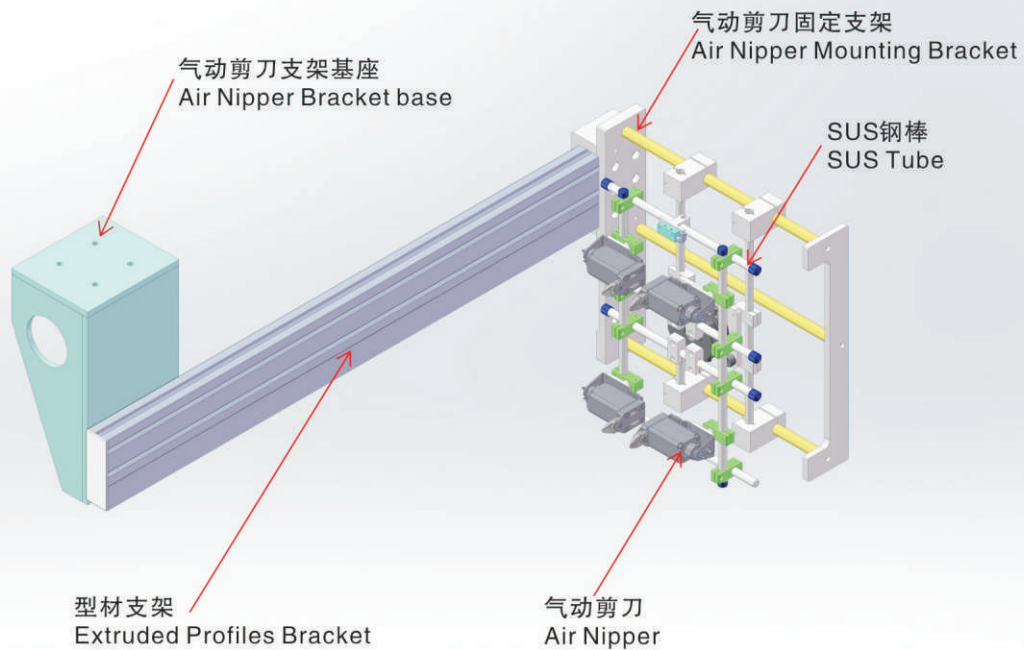
Weight of fixture: 20kg

Sprue quantity: 8

It needs to be equipped with cylinder to pulling from side because the product can't be demoulding smoothly. The contact surface of the product adopts non-marking suction cup, the clamp interface adopts soft rubber pad, and the angle can be adjust by multifunctional to make elbow arm complete the clamping.

→ NT剪刀系统

Nipper System



产品描述:

悬挂在机械手横梁上，气动剪刀自动剪切注塑件料头

Product Description:

Hanging on teh manipulator beam,Air nipper can cut the sprue of injection parts automatically

模内嵌件
Insert molding

医疗注塑自动化
Medical Automation

输送收集系统
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➔ 料头冲切机

Sprue Punching Machine

模内嵌件
Insert Moulding

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Conveyor System

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机器人末端工装夹具
CRG FOAT

冲切工装
Punching Tooling

电控触摸屏
Electronic Touch Screen

电控柜
Electric Control Cabinet



产品 Product

产品描述:

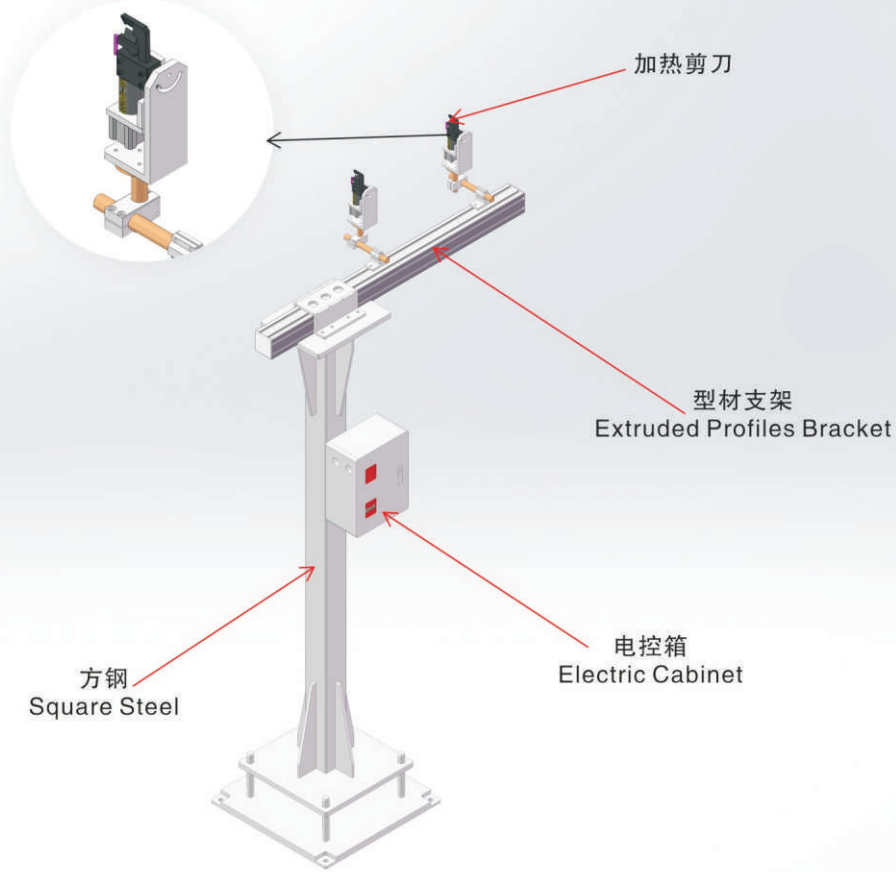
机械手将产品放置在冲切工装上，自动滑入，冲切落料，滑出机械手取走成品

Product Description:

The manipulator will place the product on the punching tool, automatically slide in, punching and blanking, slide out the manipulator to take the finished product

落地加热剪刀

Landing Heat Air Nipper



产品描述:

对剪刀头进行加热切割水口;
适用于PC类产品

Product Description:

Heating nipper blade to cut sprue;
Apply to PC products

模内嵌件
Insert molding

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Medical Automation

输送收集系统
Conveyor System

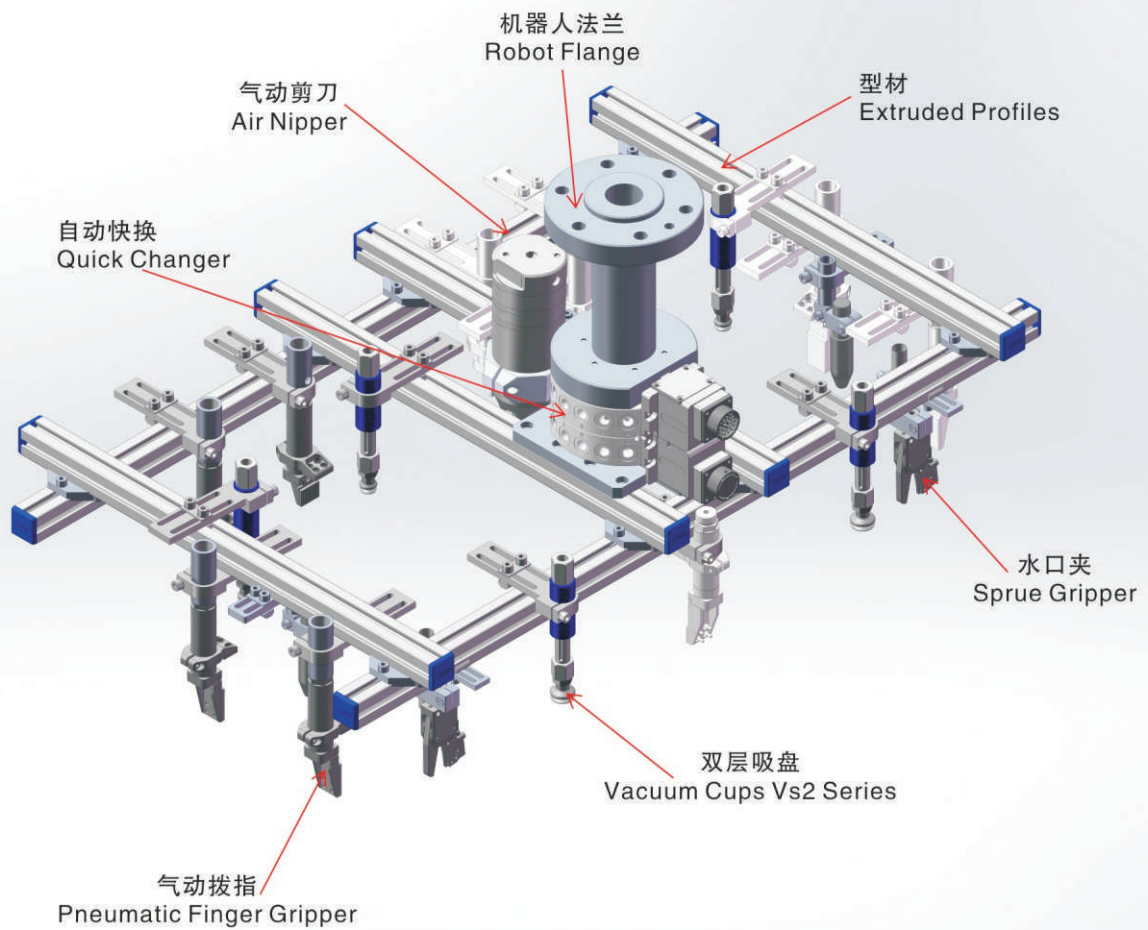
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机器人末端工装夹具
CRG-EOAT

➔ 夹具内剪刀治具

Cutting Fixture



产品描述:

治具名称: 夹具内剪刀治具

机台吨位: 600T-800T

治具重量: 16KG

主要特点: 客户需经常更换模具, 此治具安装了自动快换。可以自行切换治具, 并且此治具还包含了治具内剪切水口功能。

Product Description:

Name of fixture:

Machine tonnage: 600T-800T

Weight of fixture: 16KG

Main feature: Due to the mould changed frequently, the fixture installs with automatic quick change which the fixture can be switched by itself and contains the function of cutting sprue gate



安全防护&洁净房

SAFETY & CLEAN

→ IMM集尘罩

IMM Dust Hood

模内嵌件
Insert Molding

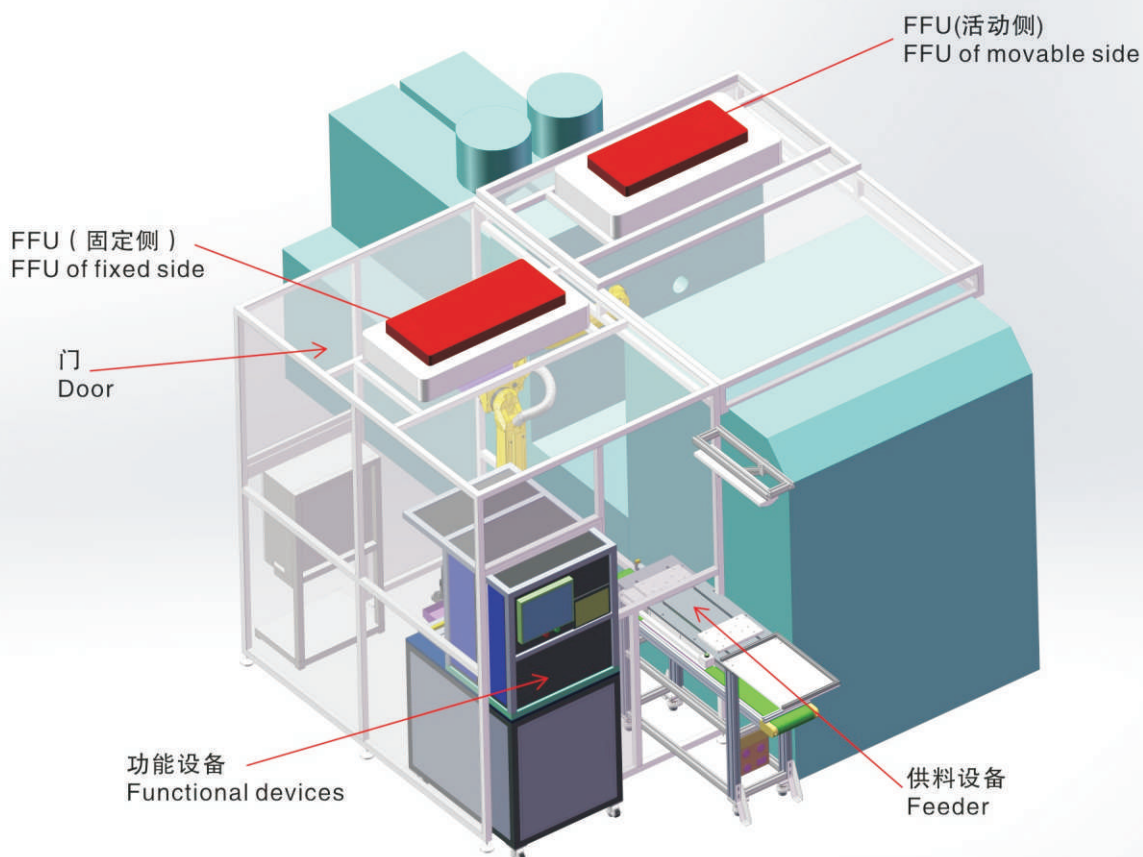
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机器人末端工装夹具
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产品描述:

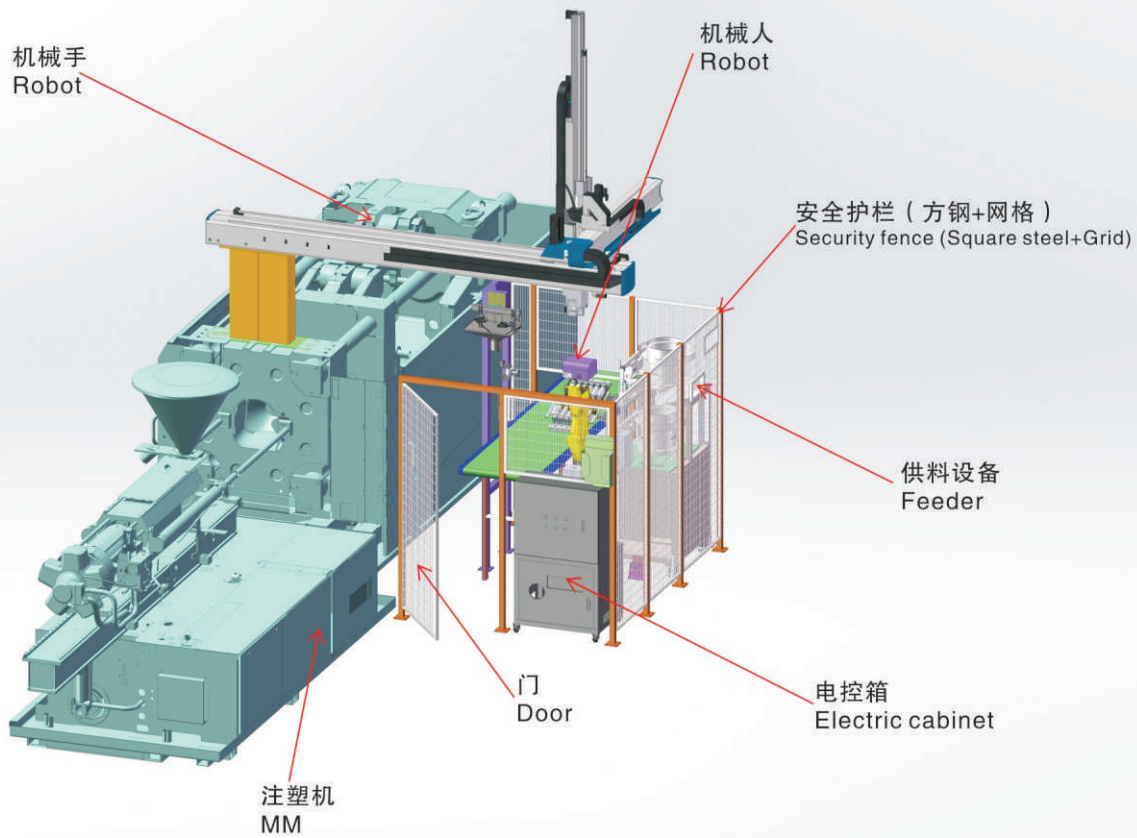
采用欧标型材及PC板定制护罩，利用FFU过滤空气并从底部排出，保持护罩内部空气洁净度。

Product Description:

The customized shield adopts European standard profile and PC board, and uses FFU to filter air and discharge from the bottom, keep the air clean inside the shield.

→ 铁网安全护栏

Safety Fence



动作流程:

振动盘阵列出嵌件→机器人将嵌件放置精定位工装→机械手取出嵌件等待开模→注塑机开模→机械手运行取出产品→机械手移动埋入嵌件→机械手运行至模外→合模→机械手将产品放置输送线→依次循环

Acting Process:

Vibration disc array out of the insert → the robot places the insert in the precise positioning tooling → the manipulator takes out the insert and waits for the mold to be opened → the injection molding machine opens the mold → the manipulator runs to take out the product → the manipulator moves to embed the insert → the manipulator runs to the outside of the mold → the mold is closed → the manipulator places the product on the conveyor line → circulates in turn

模内嵌件
Insert molding

医疗注塑自动化
Medical Automation

输送收集系统
Conveyor System

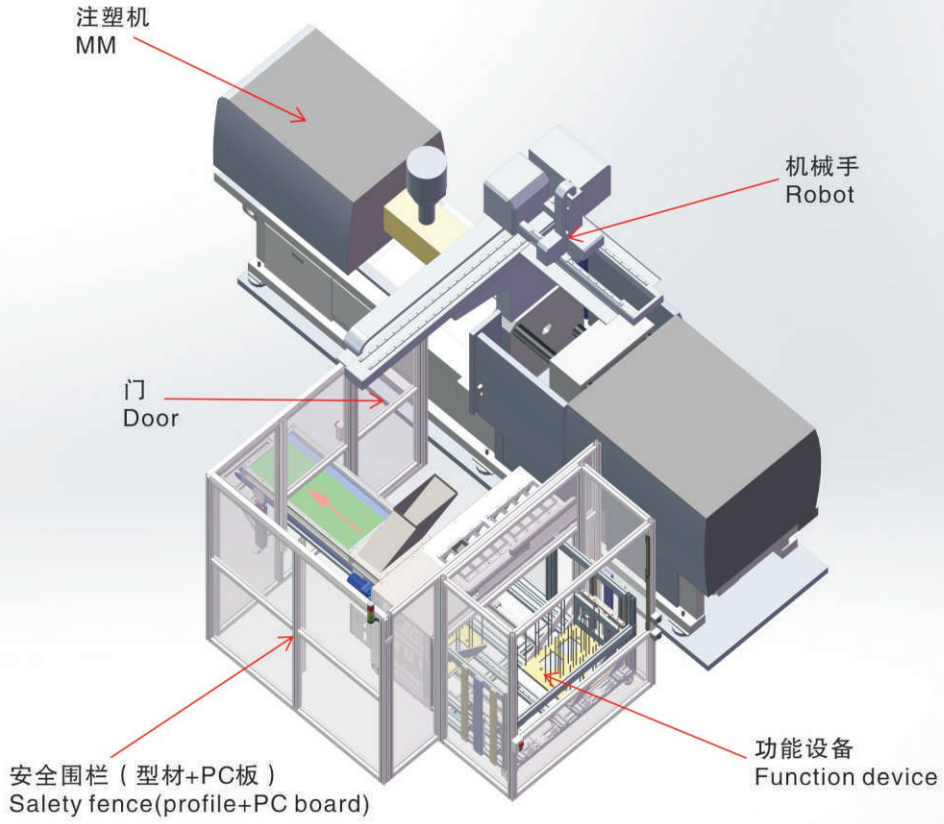
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Safety & Clean Room

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CRG-EOAT

→ PC安全护栏

PC Safety Fence



产品描述:

型材+PC 5
底钢+PC 8mm

Product Description:

Pofile+PC5
Bottom steel+PC8mm

模内嵌件
Insert Moulding

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➤ 机器人末端工装夹具 CRG-EOAT



➔ CRG夹具标准件产品线

CRG EOAT Standard Parts

大容量库存 Big Stock

最快当日发货 Quick Delivery

国内首家机器人末端组件供应商，诸多机器人、机械手战略合作伙伴；10年以上夹具设计应用及系统集成知识库，2000多件商品、跨行业、多类别，一站式采购，为客户提供便捷式的服务渠道，提供专业的EOAT解决方案。

The first robot end component supplier in China, many strategic partners of robot and manipulator; more than 10 years of fixture design application and system integration knowledge base, more than 2000 products, cross industry, multi category, one-stop procurement, to provide customers with convenient service channels and professional eoat solutions.



型材、钢棒
轻量化、高强度
Profile, sus
Tubelightweight,
High Strength



支架模组
多角度、多方位360°调节
Stents Module
Mutiangular Adjust



夹具组件
多元化、多功能夹持
Grip Module pluralise
and multi-functional



气动剪刀
注塑水口美工刀
Air Nipper



快换
快速换夹“零”点切换
Quick Changer



真空组件
低能耗、强吸附
Vacuum Module
low-energy-consuming
strong adsorption

CRG致力於机器人、机械手末端组件夹具 (EOAT)设计开发、销售及服务，专注于注塑自动化领域10年，以模块化理念让自动化设计更简单，更灵活、更可靠。

CRG has been involving in EOAT design, development, sale and service. We have been operating in the field of injection automation for more than ten years. Base on module design concept, to makes automation design simpler, more flexible and more reliable.

模内嵌件
Insert Moulding

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机器人末端工装夹具
CRG EOAT

→ CRG夹具标准件产品线

CRG EOAT Standard Parts



框架主体 Base Frame

型材 | 钢棒、铝棒 | T型螺母、双孔.. | 端盖、螺丝
Profile | Sus Tube、Aluminium Tube | T-Nuts | Plugs、Screws

气动剪刀 Air Nipper

剪刀本体 | 剪刀刀刃 | 加热推刀 | 引拔体、剪刀支架
Air Nipper Body | Blade | Bracket | Heat Air Nipper/Slide-Off Air Nipper

快速交换组件 Quick Changer

机械手快换 | 机器人快换 | 模具定位器 | 模块装置
Quick Changer | Mould Positioner

夹具组件 Grip Module

水口夹 | 平行、三爪夹 | 鼓胀器、针夹 | 拨指 | 缓冲支架
Sprue Gripper | Parallel、Three Jaws Gripper | Bulging Device、Needle Gripper | Finger Gripper | Buffer Support

真空组件 Vacuum Module

吸盘 | 缓冲悬件、吸着.. | 真空模组 | 吸盘座
Vacuum Cup | Suspensions、Suction Stems | Vacuum Module | Vacuum Cup Fitting

支架组件 Stents Module

框架链接件 | 固定支架 | 弯臂 | 汇流排 | 延长杆
Frame Connector | Mounting Bracket | Elbow Arm | Side Manifold Block | Extension Tube

附件 Accessory Components

信号分配器 | 气管、气管接头 | 金属头 | 其它
Signal Boxes | Hoses、Hose Fitting | Connector | Other

应用案例 Application Example

钢棒类夹具 | 型材类夹具
Fixture of Sus Tube | Profile

模内嵌件
Insert molding

医疗注塑自动化
Medical Automation

输送收集系统
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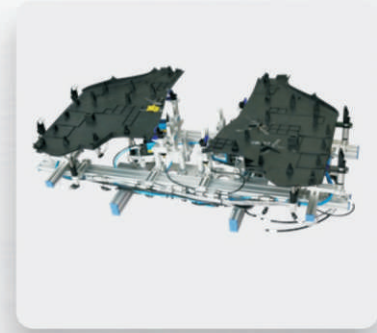
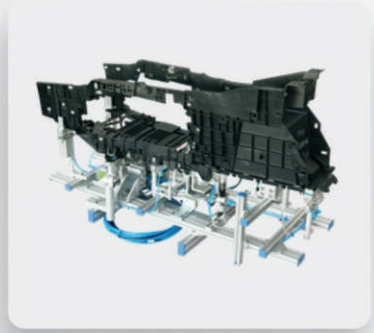
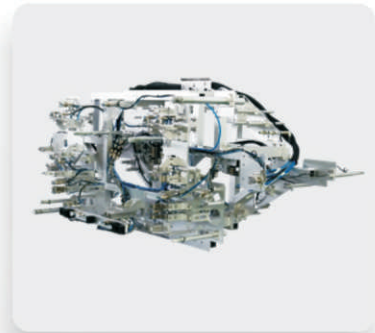
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CRG-EOAT

➔ 复杂夹具 轻松组建

Complex Gripper Flexible Assembly

夹具产品 Products of Fixture



CRG官网网站 (Official Website) <http://www.crg-eoat.com>

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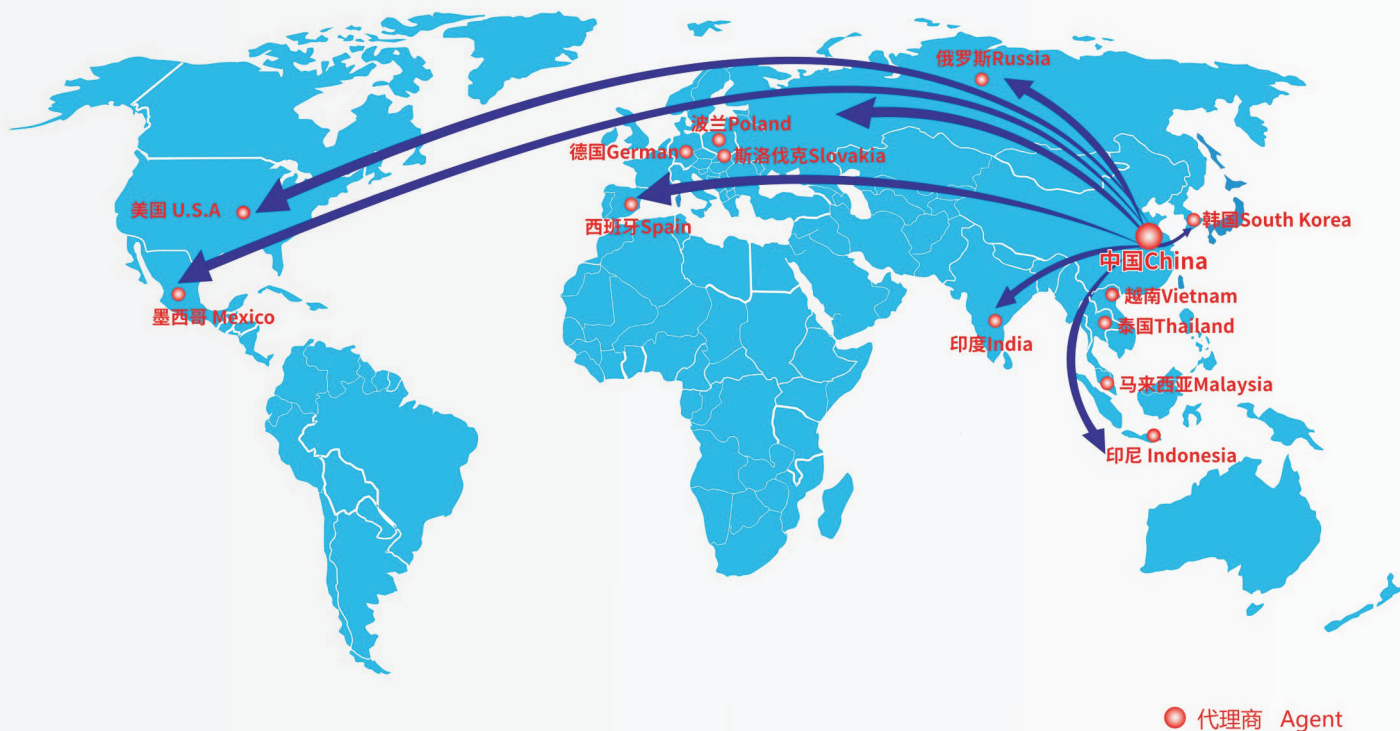
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Global network sales location



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邮编(P.C) : 215316

电话(Tel) : 0512-55101695

传真(Fax) : 0512-55101399

地址(ADD) : 江苏省昆山市新塘路777号麦杰柯产业园2号厂房

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