



WWW.CEMT.CN

COMPNAY PROFILE





**Since 1999
24 years**



200 employees

58 engineers



Highly level, Highly efficient management team
高层次、高效率的企业管理队伍

Professional sales team
专业的销售团队

Professional customer service team
专业的客户服务队伍

Excellent production team
优秀的产品制造队伍

High quality R&D team
高素质的研发队伍





Each machine has radio network gateway
每台设备配置无线网关

Engineer can guide the machine
running on line in China
工程师随时在线远程指导

China engineer team coming on site by
visa
国内工程师去现场服务

Training and hiring local service team
培训和雇佣服务团队



Company location



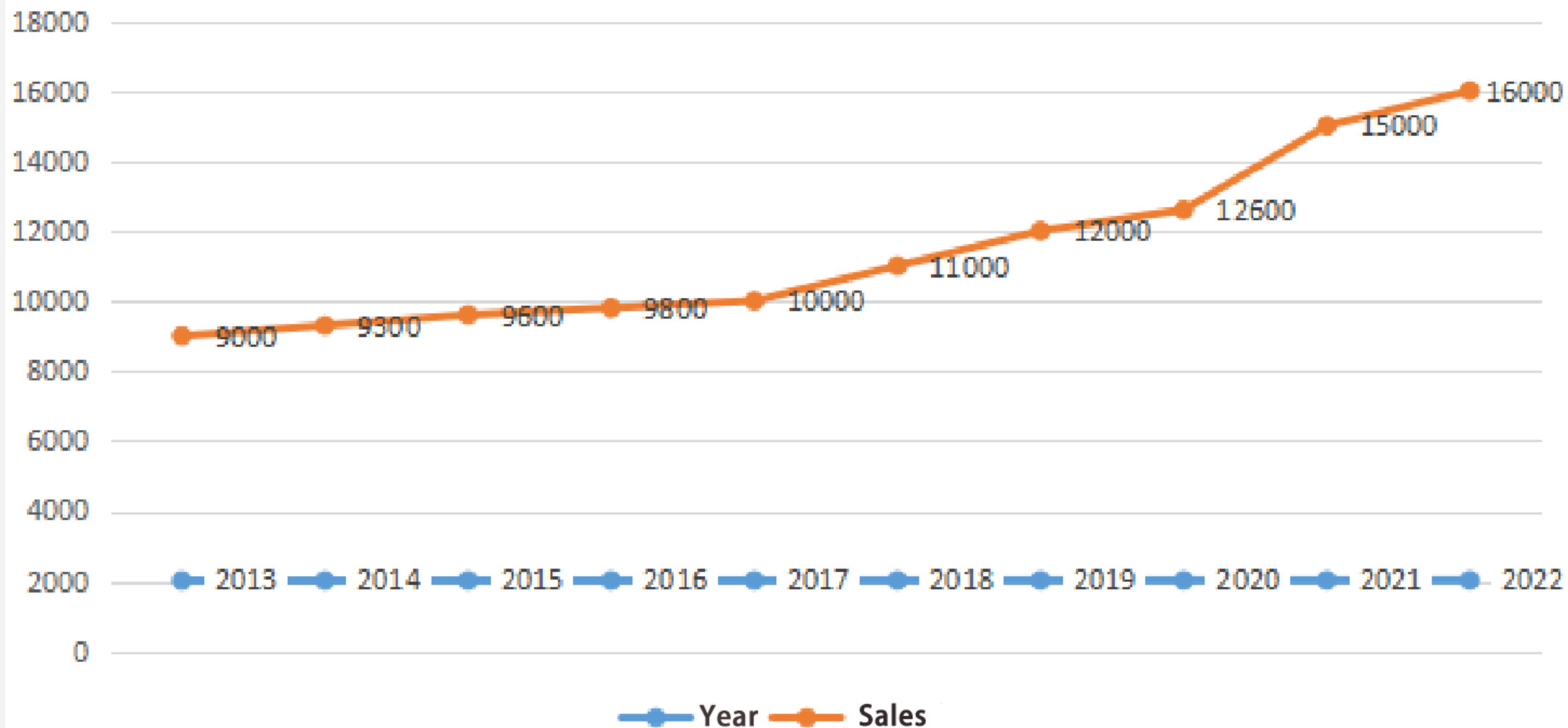
- SHANGHAI-NANJING, 1H by Train
- HONGKONG-NANJING, 2-2.5H by Air
- GUANGZHOU-NANJING, 2H by Air



**CEMT totally obtained 79 patents,
10 invention patents among them.**



Sales in the past decades (Unit: Ten thousand yuan)



Domestic customer



36 countries, 115 battery plants.

Asia

India



Iran



Bangladesh



Thailand



Indonesia



Vietnam



Asia

Pakistan



Korea



Kazakhstan

TOO "ZHERSU POWER"



South America

Brazil



Ecuador



Argentina



Colombia



Peru



Bolivia



Europe

Serbia



Macedonia



Bulgaria



Belarus



Russia



Ukraine



Poland



Turky



Africa

Algeria



Egypt



Sudan

Saria Industrial Complex factory

America

Mexico



OUR PRODUCTS

THREE TYPES



**PLATE
MAKING
EQUIPMENT**

极板生产设备



**ASSEMBLY
EQUIPMENT
FINISHING LINE
EQUIPMENT
FORMATION**

蓄电池装配后处理设备



CHARGER

充放电设备

Auxiliary Car Battery High-speed Assembly line

全新高速汽车电池数控装配线（车辆辅助小电池）

What Is an Auxiliary Battery?

Starting to appear in the early 2000s, some European automakers began designing and engineering their vehicle electrical systems to have a second, smaller battery in their vehicles. These batteries are designed to run as a backup to the starting battery and provide power to some essential equipment like engine start/stop and other systems that require power while the engine is off to put less strain on the main battery and alternator. The exact systems that will be powered by the auxiliary battery, or secondary battery, will depend largely on the make, model and trim level of your specific vehicle.

As automotive technology continues to evolve, electrical design needs to evolve as well. The more electrical equipment installed in new vehicles, the more strain on the starting battery. Flash forward a few years and auxiliary batteries are still fairly rare but you will now see secondary auxiliary batteries in many cars ranging from Mercedes Benz, BMW, Chrysler, Jeep and more.



- **Scope of application: To meet the demands of 12V20Ah ~ 12V 60Ah auxiliary battery production**

适用范围：满足12V20Ah~12V 60Ah辅助小电池生产需求

- **Capacity: 8pcs/min Rated power: 165KW 0.6Mpa 1.5M3/Min**

生产力：8只/分钟 额定功率：165KW 0.6Mpa 1.5M3/Min

- **Area:46×7m**

占地面积：长46米×宽7米

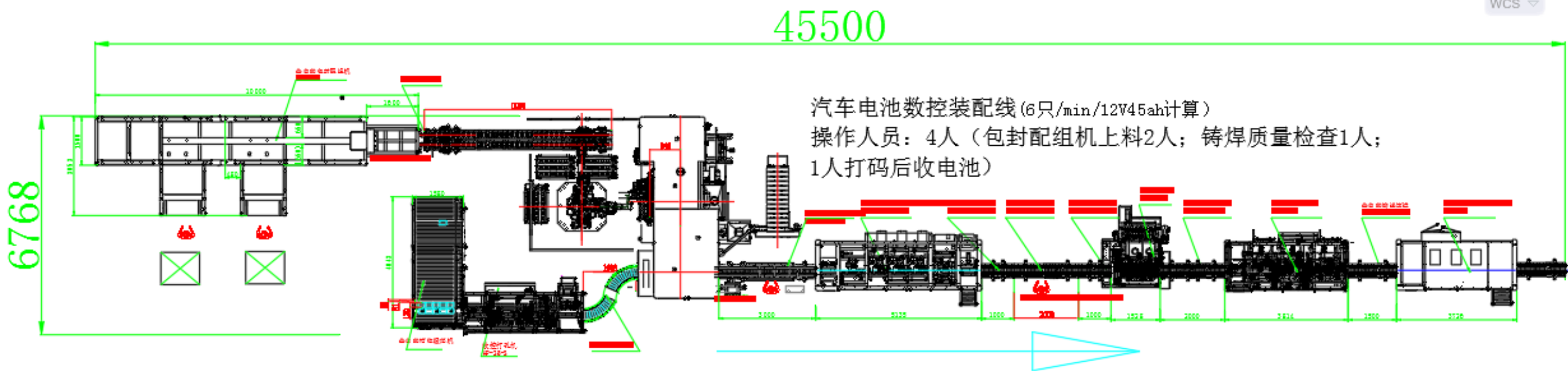
- **Number of personnel: 4 ((Enveloping: 1, cos: 2, inspection and release of accessory materials: 1)**

人员数量：4人（包封：1，铸焊：2，巡检放辅材：1）

- **Suitable for battery size (length×width×height) mm: Max: 240×175×225 Min:181×125×170**

适合电池尺寸（长×宽×高）mm：最大：240×175×225 最小：181×125×170

WCS ▾





Double Channel Enveloping and Stacking Machine
双通道包封配组机



Double Mould Cast On Strap Machine
双模铸焊机

Technological process 工艺流程



Double Channel Enveloping and Stacking Machine
双通道包封配组机



Double Mould Cast On Strap Machine
双模铸焊机



Hole Punching machine
打孔机



Intercell welding machine
高压短路穿壁焊内阻检测机



Heat sealing machine
热封机



Terminal Burning Height Testing machine
端子烧焊高度检测机



Leak Testing machine
气密性检测机

8PCS/min

Double Channel Enveloping and Stacking Machine 双通道包封配组机

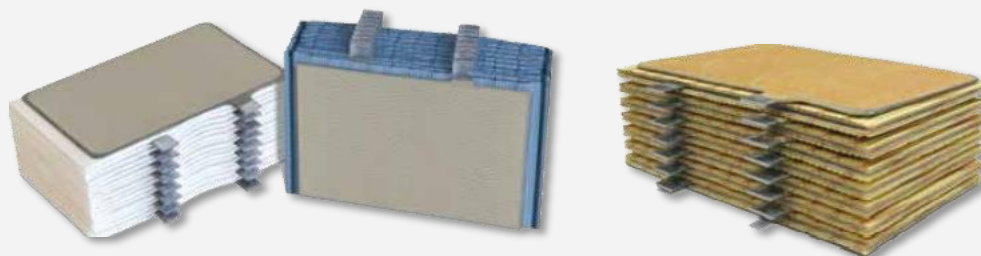


PE separator battery : 250-300 pcs enveloped plates /min

PE电池包封效率: 250-300片/min

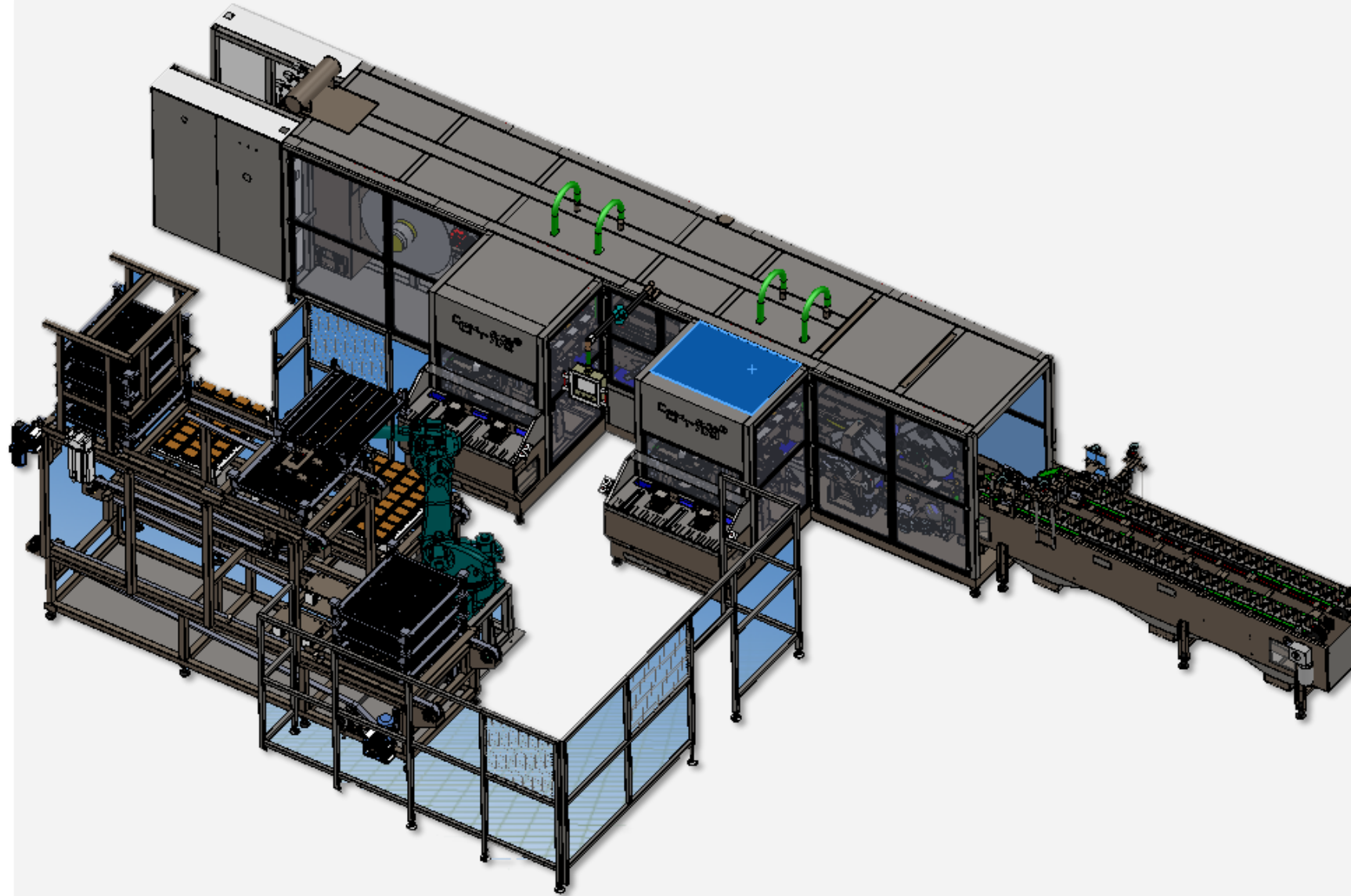
AGM separator battery : 150-200 pcs enveloped plates /min

AGM电池包封效率: 150-200片/min



Product effect
产品效果

Robot Plate loading system 机器人上极板系统



Double Mould Cast On Strap Machine 双模铸焊机

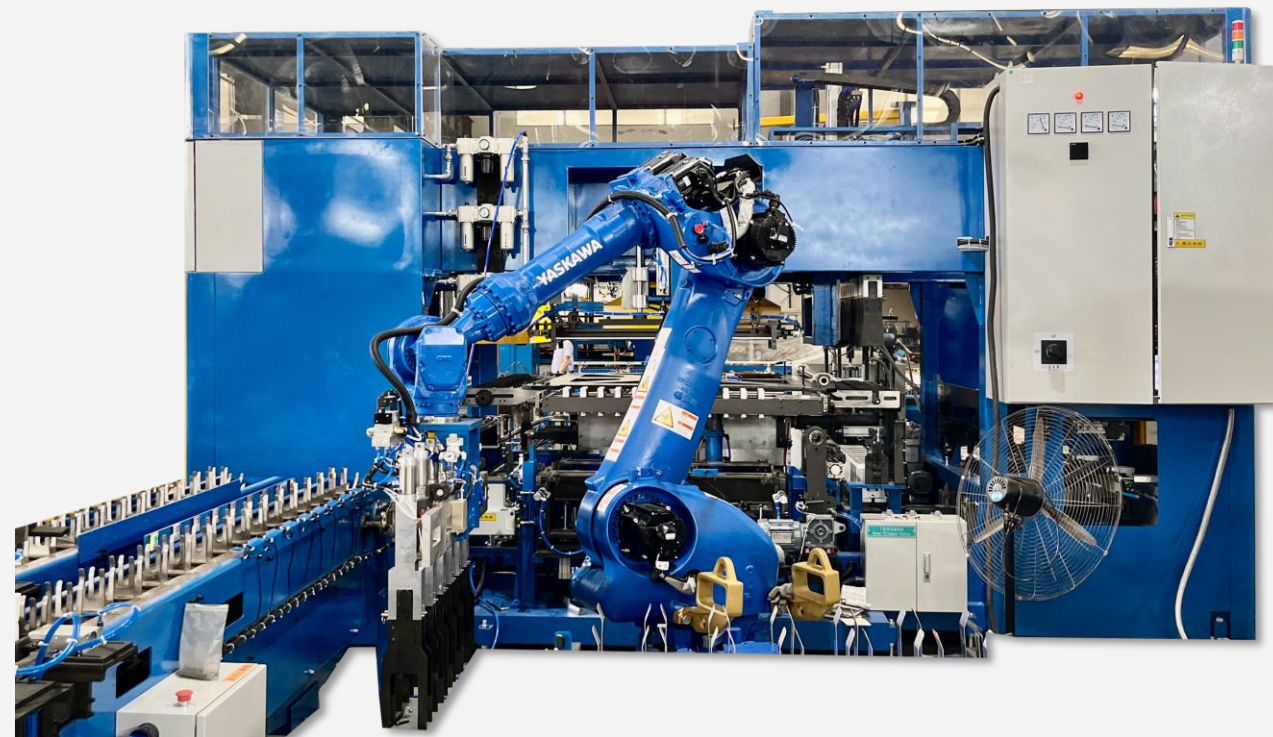


Adopt professional appearance design

采用专业外观设计

Capacity: 8pcs/min

生产力: 8只/分钟



Robot mechanism

机器人机构

Double mould

双模

Dust removal and side pole lug treatment 除尘及边极耳处理



**Fully enclosed structure design,
centralized dust removal**
全封闭结构，集中除尘



**Press side
lug**捏边极耳

Lug alignment
极耳整理

Robot plate groups loading system 机器人上集群组系统



NG Product cache

NG产品缓存



Robot pick up plate groups

机器人抓取极群组

plate group buffer system

极群组缓存机构

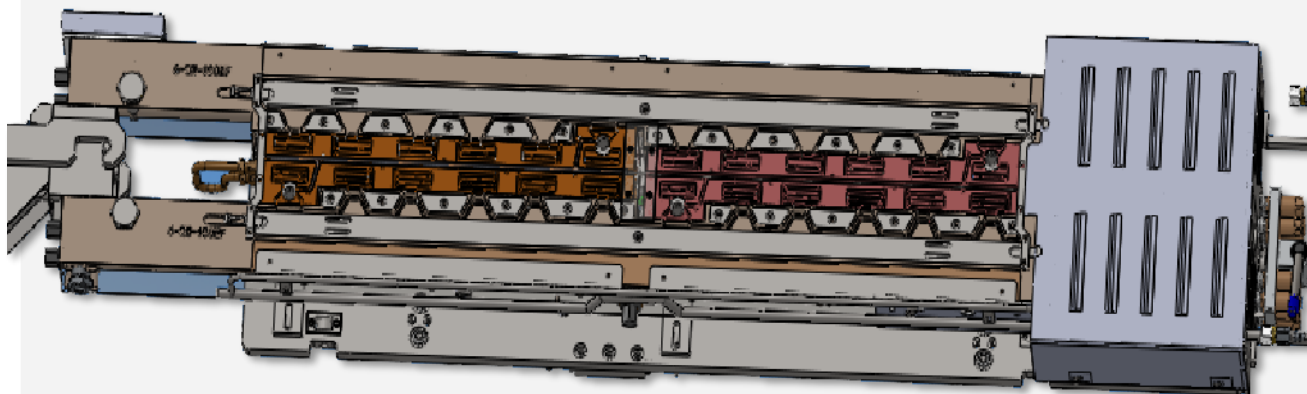
Double Mould Cast On Strap Machine--Important Structure 双模铸焊机--重要结构

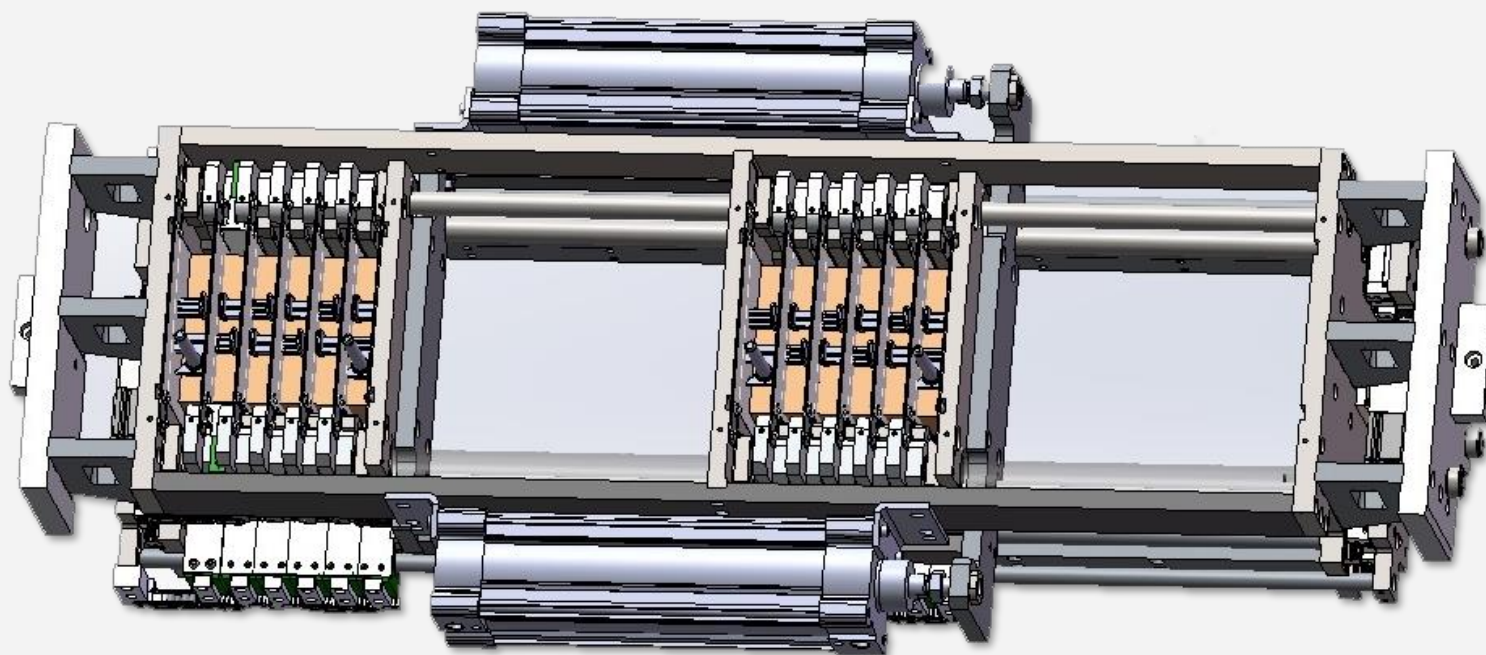


1 2 3 4 5 6 7 8 9 10 11 12



**Double Mould Cast On Strap
Fixture mechanism**
双模铸焊夹具机构





boxing fixture mechanism

入槽夹具机构

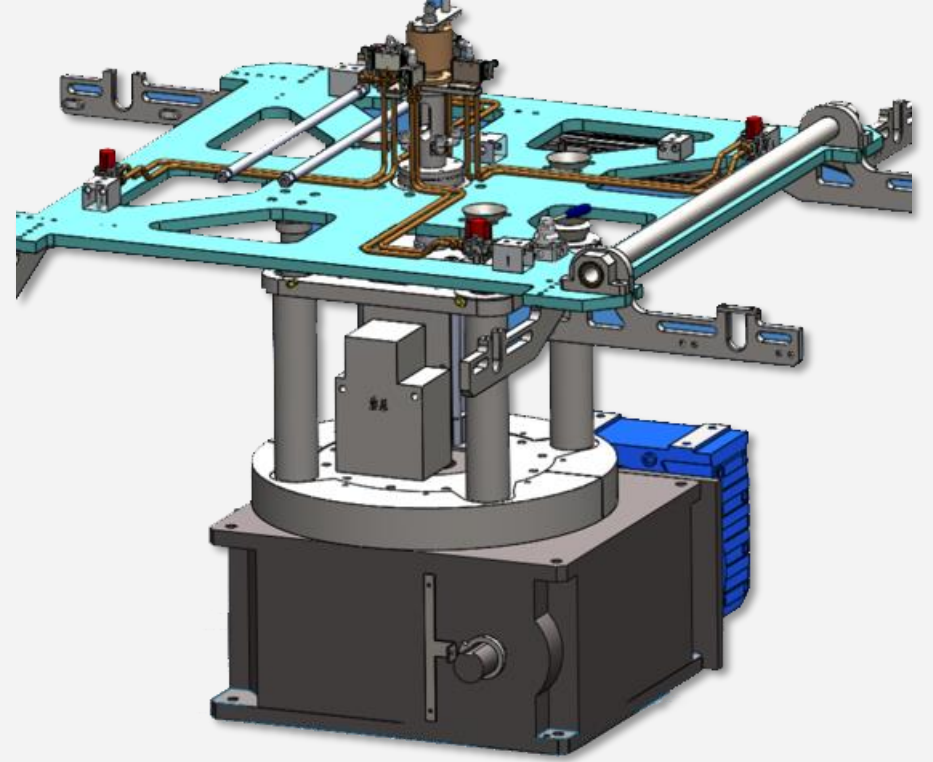
1×6 battery structure

1×6电池结构

Four-station rotating plate 四工位旋转大盘



self-lubrication
自动润滑



Large plate drive structure is stable

大盘驱动结构稳定

Continuous and smooth movement, no vibration and noise, near maintenance free

运动连续平稳、无振动和噪音、近于免维护

Laser coding and punching machine 激光打码打孔机



Dumping
倒废料

**hole
Punching**
打孔

Laser coding
激光打码



Laser coding effect
激光打码效果



punching effect
打孔效果

- **All-in-one function**
一体机功能
- **Side laser coding function**
侧面激光打码功能
- **hole punching function**
打孔功能

- **flash removing function**
去毛刺功能
- **waste materials dumping function**
倒废料功能



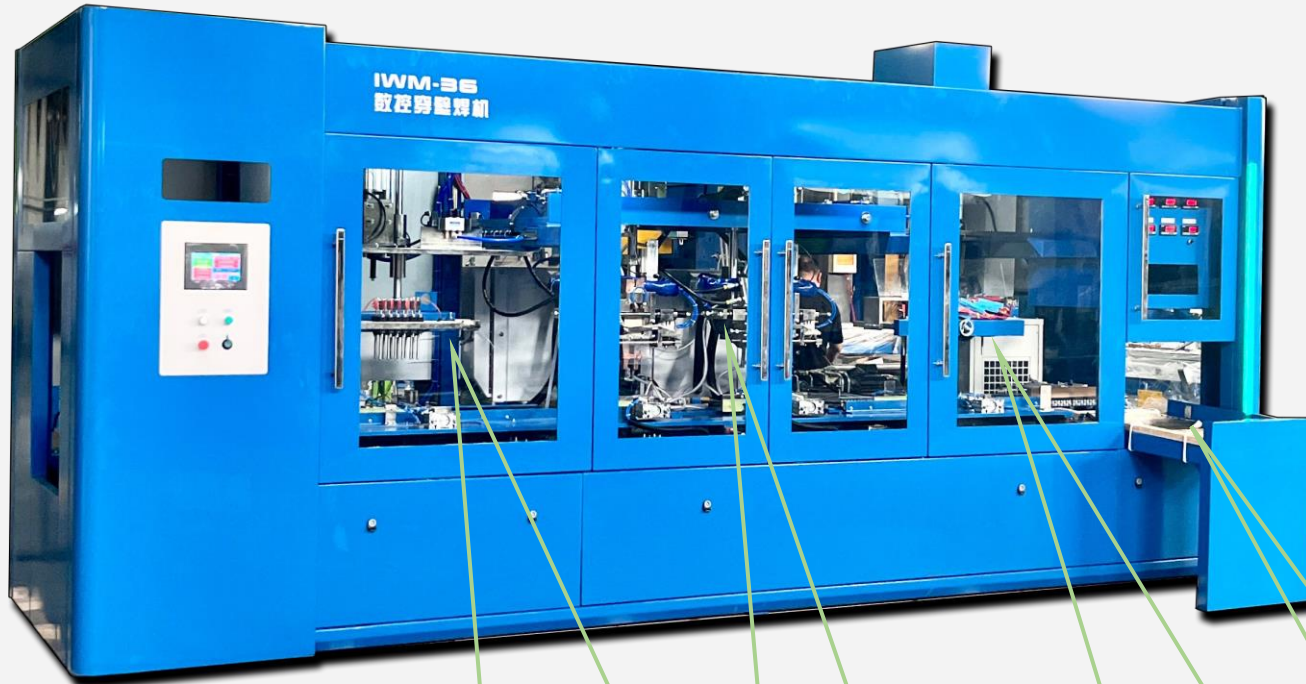
container buffer before punching machine

用于打孔机前槽体缓存

store more than 100 battery container

可存储100只以上电池槽体

Intercell welding machine 高压短路穿壁焊内阻检测机



- **Battery short circuit detection before intercell welding machine**
蓄电池穿壁焊前短路检测
- **lug intercell welding**
极耳穿壁焊接
- **Second short circuit detection after intercell welding**
穿壁焊接后二次短路检测
- **welding joints quality inspection**
焊点质量检测

Intercell welding
穿壁焊

Rejection
不合格剔除

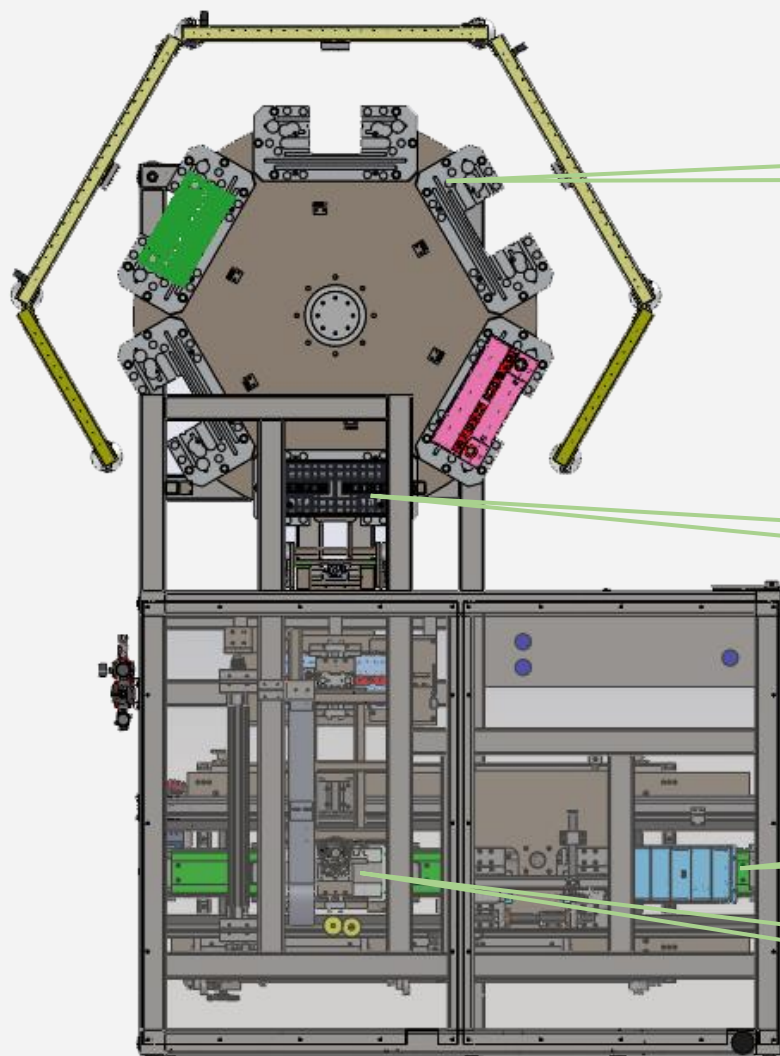
Short circuit detection before welding
焊前短路检测

Short circuit detection after welding
焊后短路检测



- **Used befor heat sealing**
用于汽车蓄电池槽盖热封前
- **Align the positive and negative battery posts**
对电池正负极柱校正
- **put the battery cover on the container**
并将电池盖放置在电池槽体上
- **One cover loading station**
一个放盖工位
- **Six cover storage stations**
6个储盖工位

Lid placing machine 放盖子机



Cover storage station

储盖工位

Grab cover station

抓盖工位

Conveyor

输送滚道

**Cover put on the
container station**

放盖工位

Three-station Heat sealing machine 三工位热封机



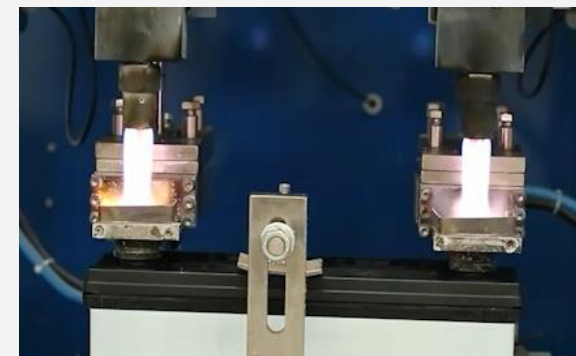
3 batteries with 1*6 structure can be sealed at a time

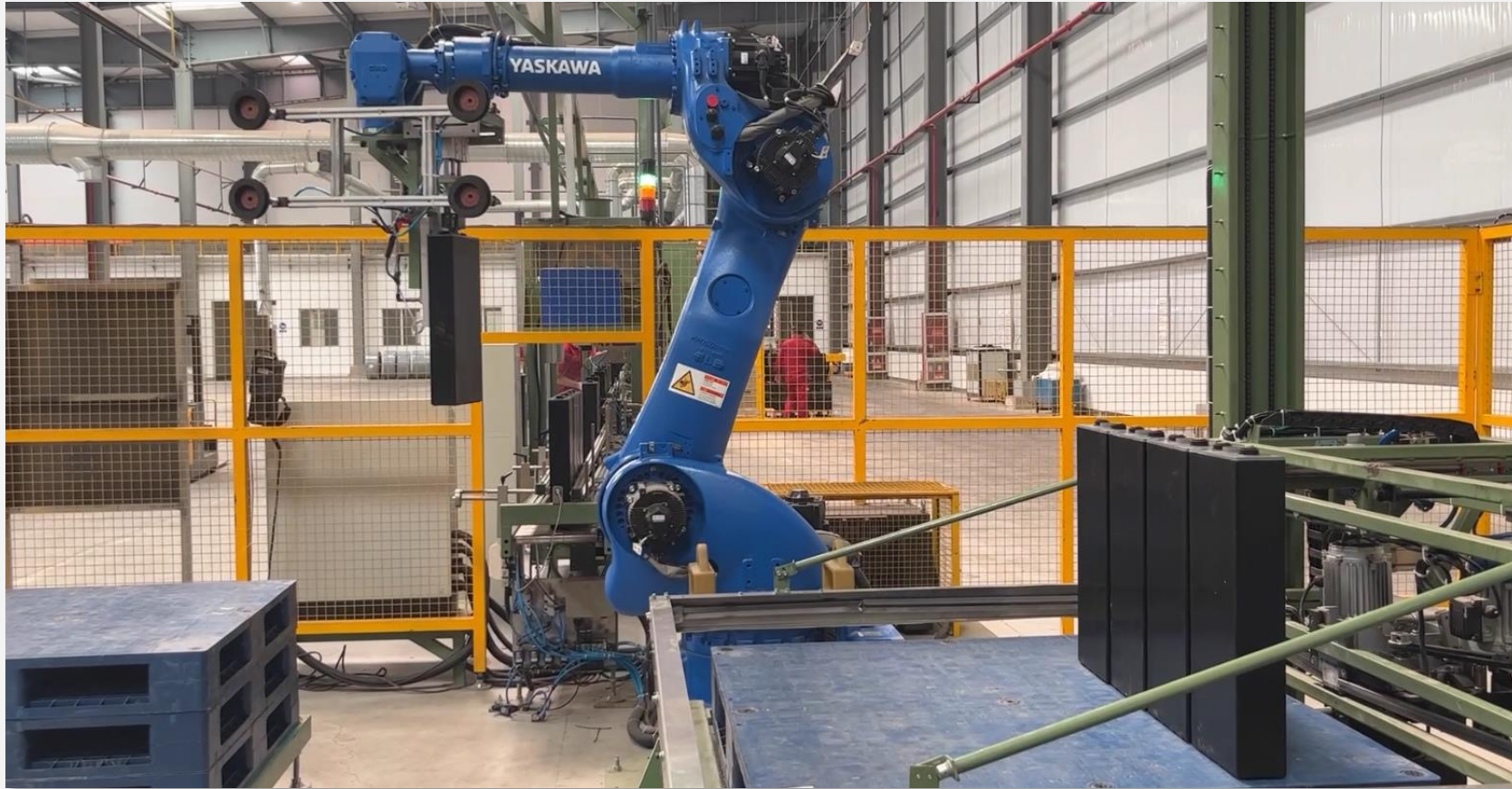
一次可封三只1*6规格电池

Three-station Terminal Burning Height Checking machine 三工位烧端子机



Terminal welding
烧端子





- **The battery is transported by the roller conveyor to the robot loading station. The blocking and positioning mechanism complete the positioning.**
电池由辊道输送,至机器人抓取工位有阻挡和定位机构完成定位
- **The robot grabs the finished battery consisting of a positioning block and a push cylinder.**
机器人抓取电池成品由定位阻挡块和推出气缸组成



New Car Battery High-speed Fully Automatic Assembly line (Auxiliary Battery)



Small VRLA Battery(motorcycle battery) Assembly Line

数控小密电池装配线

- **Scope of application: Small sealed 12V 7 ~ 20Ah lead acid battery**

适用范围：小型密封12V 7~20Ah铅酸电池用

- **Capacity: 24pcs/min (Calculated by 12V 20Ah 4+ 5-)**

生产力：24只/分钟（以 12V 20Ah 4+ 5-计算）

- **Area: 56.5 × 8m**

占地面积：长56.5米×宽8米

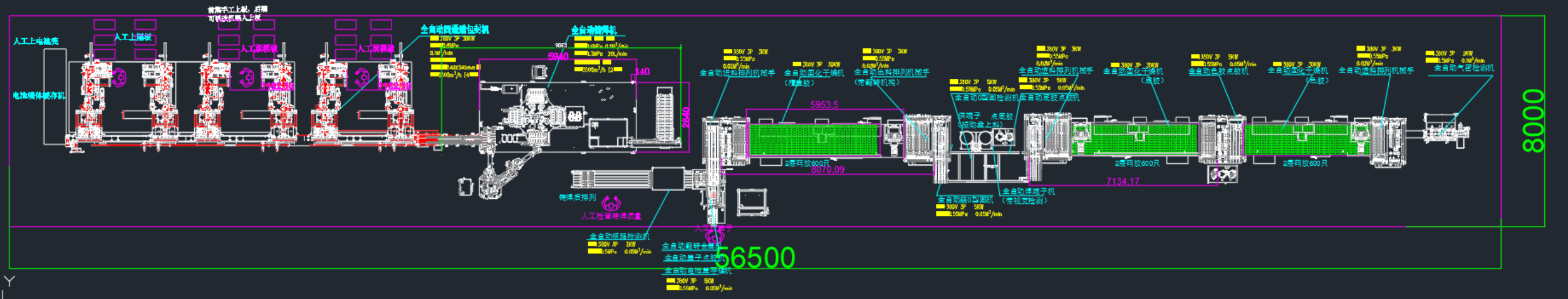
- **Number of personnel: 5 (plate feeding for Plate packing machine : 3、Quality inspection of casting and welding : 1、Discharge battery cover off-line and inspect: 1)**

人员数量：5人（包板机极板上料：3人、铸焊质量检查：1人、放电池盖下线及巡检：1人）

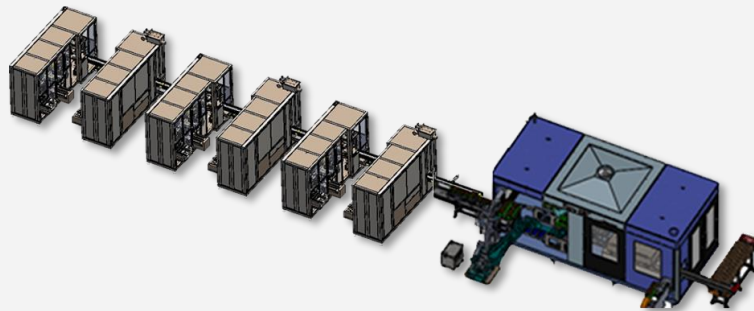
- **Suitable battery size (length × width × height) mm: Max: 205 × 130 × 180 Min: 150 × 50 × 90**

适合电池尺寸（长×宽×高）mm：最大：205×130×180最小：150×50×90

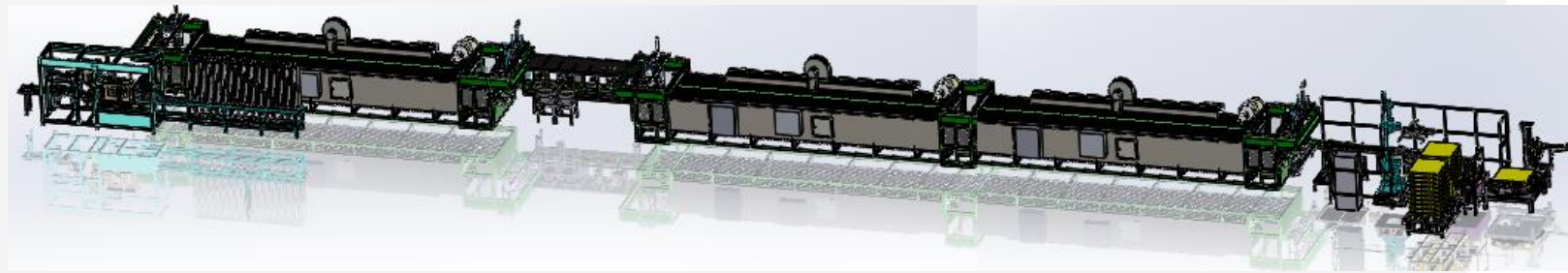
Capacity: 24pcs/min



Envoloper and stacker and cos 装配线前段

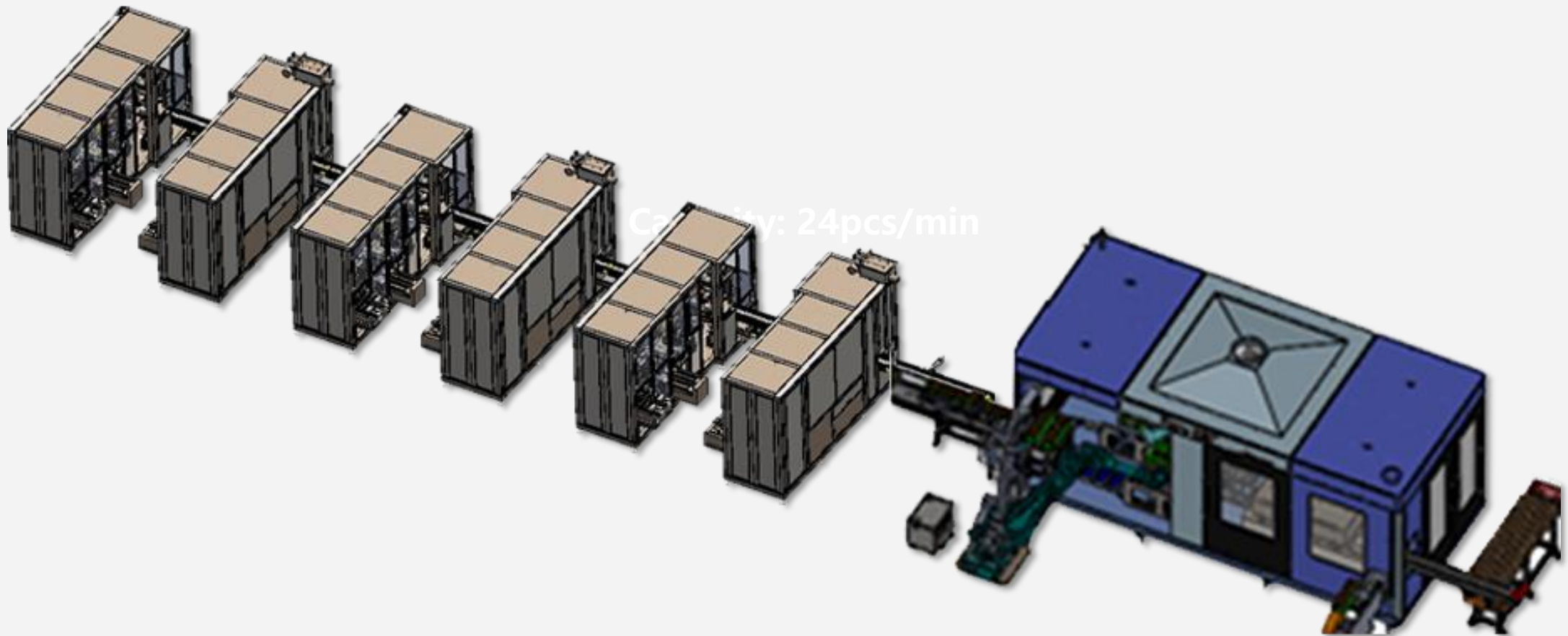


Assembly line 装配线后段



Six modules Enveloping and Stacking Machines are combined with Cast On Strap Machine
Capacity: 24pcs/min (Calculated as 12V 20Ah 4+ 5-)

1台6模块包封配组机接1台铸焊机
满足效率：24只/分钟（以12V 20Ah 4+5-计算）



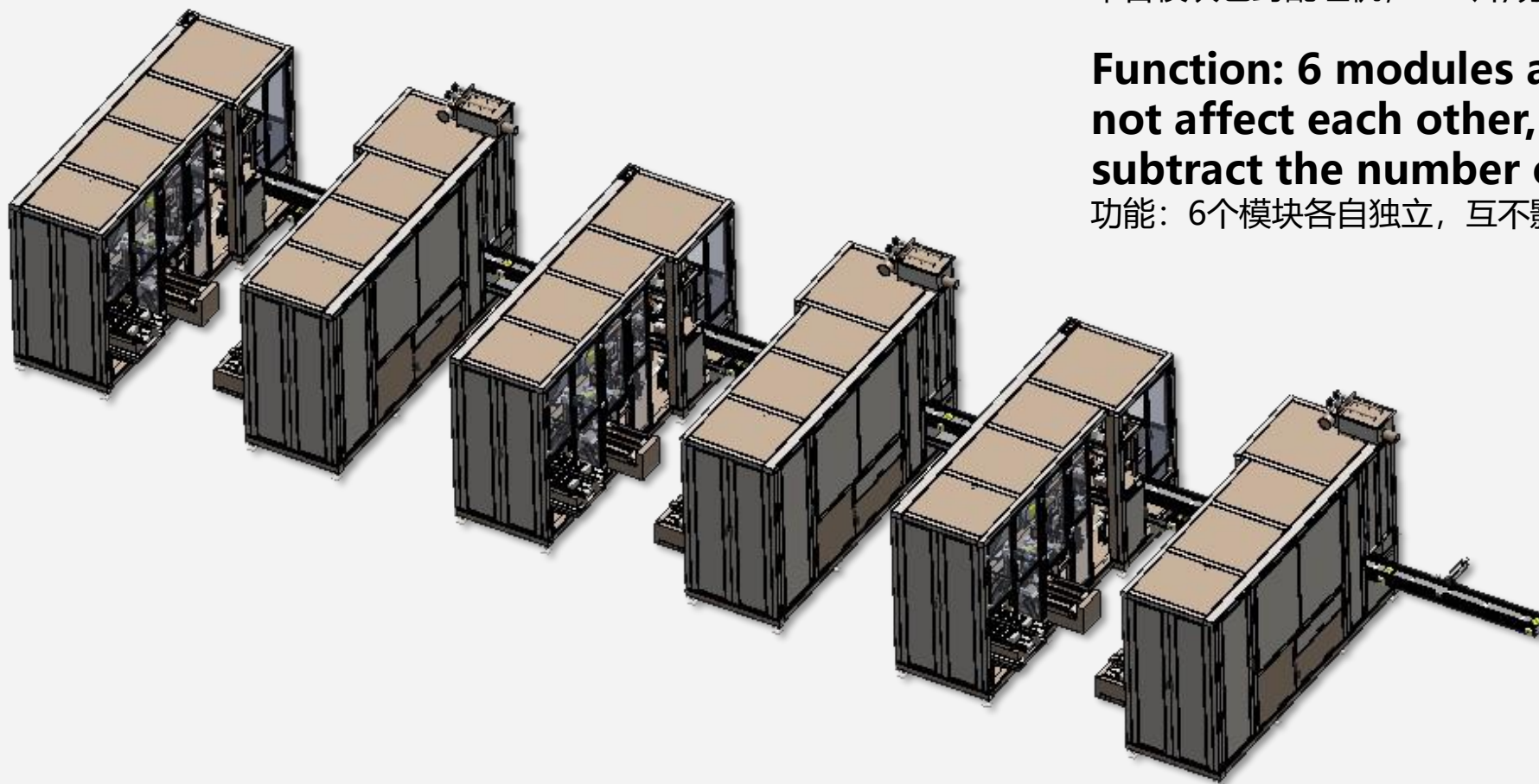
Single module Enveloping and Stacking Machine

150 pcs enveloped plates /min

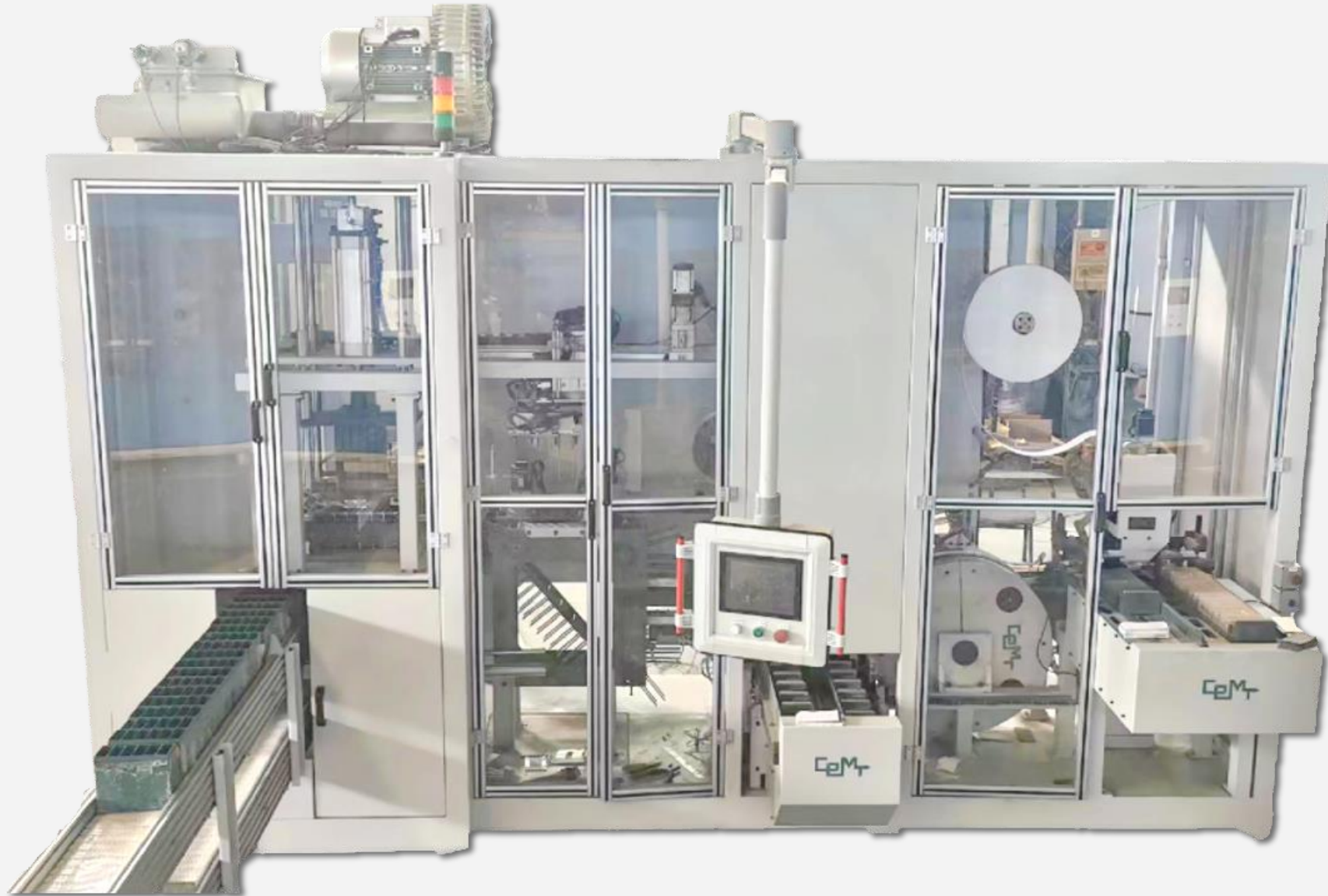
单台模块包封配组机, 150片/分钟

Function: 6 modules are independent, do not affect each other, able to add or subtract the number of stations

功能: 6个模块各自独立, 互不影响, 可以任意加减工位数量



Single module Enveloping and Stacking Machine 单模块包封配组机



Into the container 入槽机构

Plastic wrapping 包膜机构

Plate wrapping 包板机构

half thickness negative plate loading
边负板上料

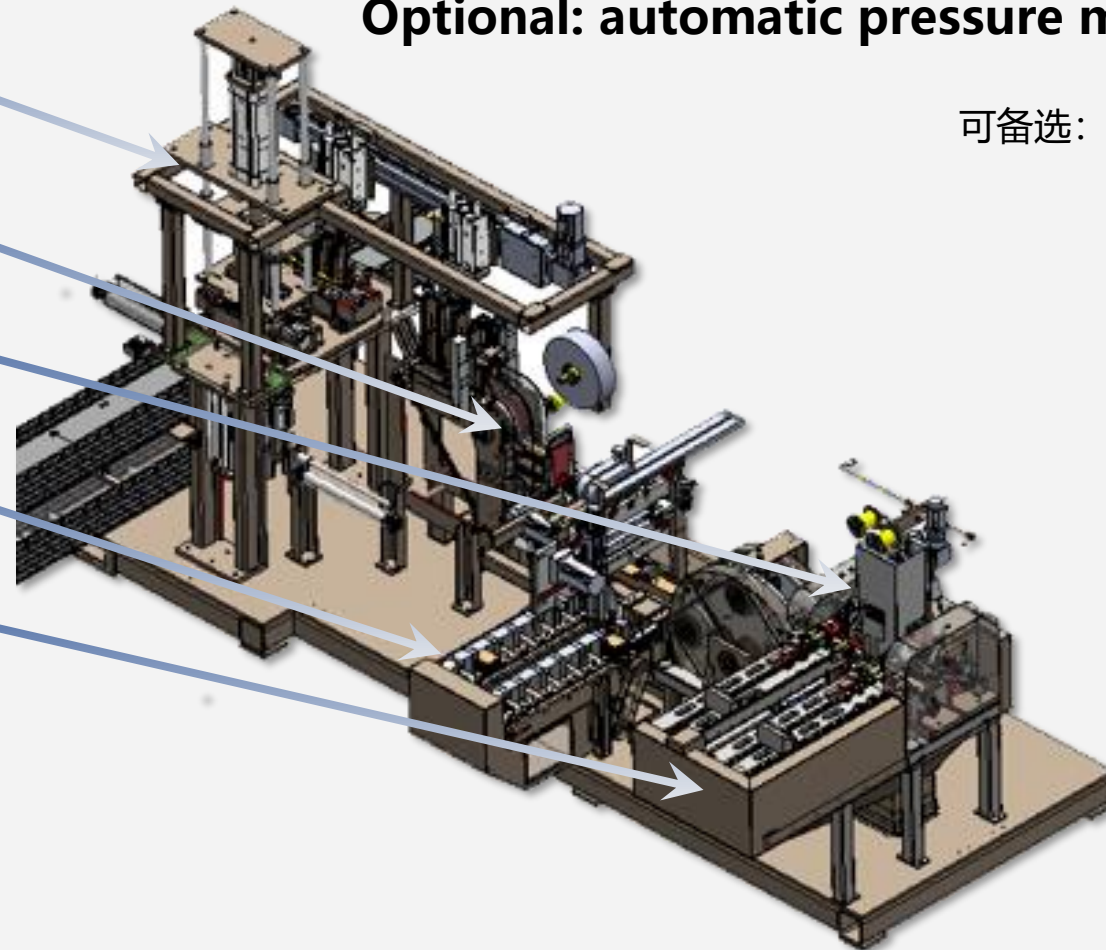
Positive and negative plate feeding
正负板上料

Grouping, plastic film wrapping , boxing combined

包板、包膜、入槽高度集中

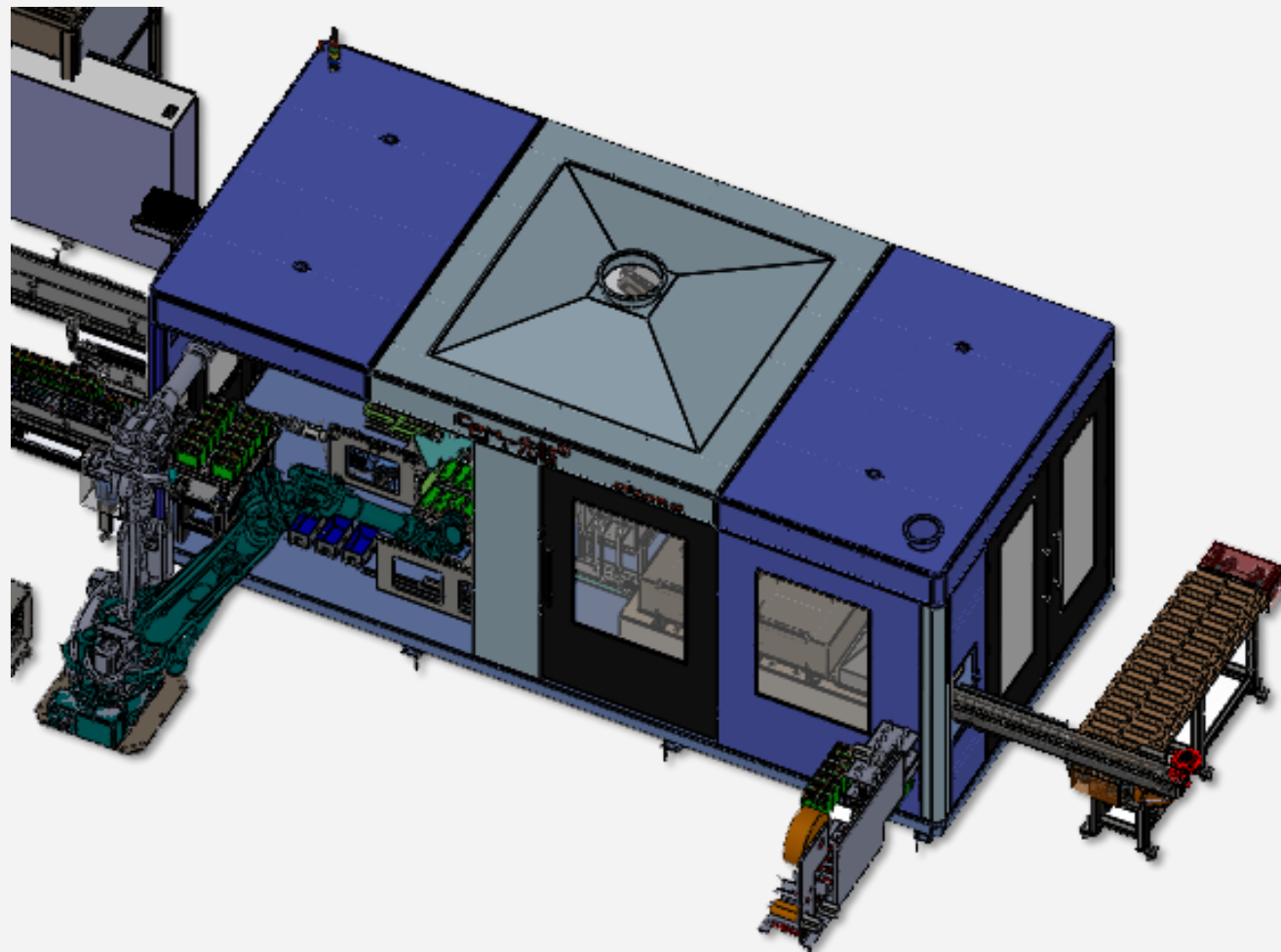
Optional: automatic pressure measuring function

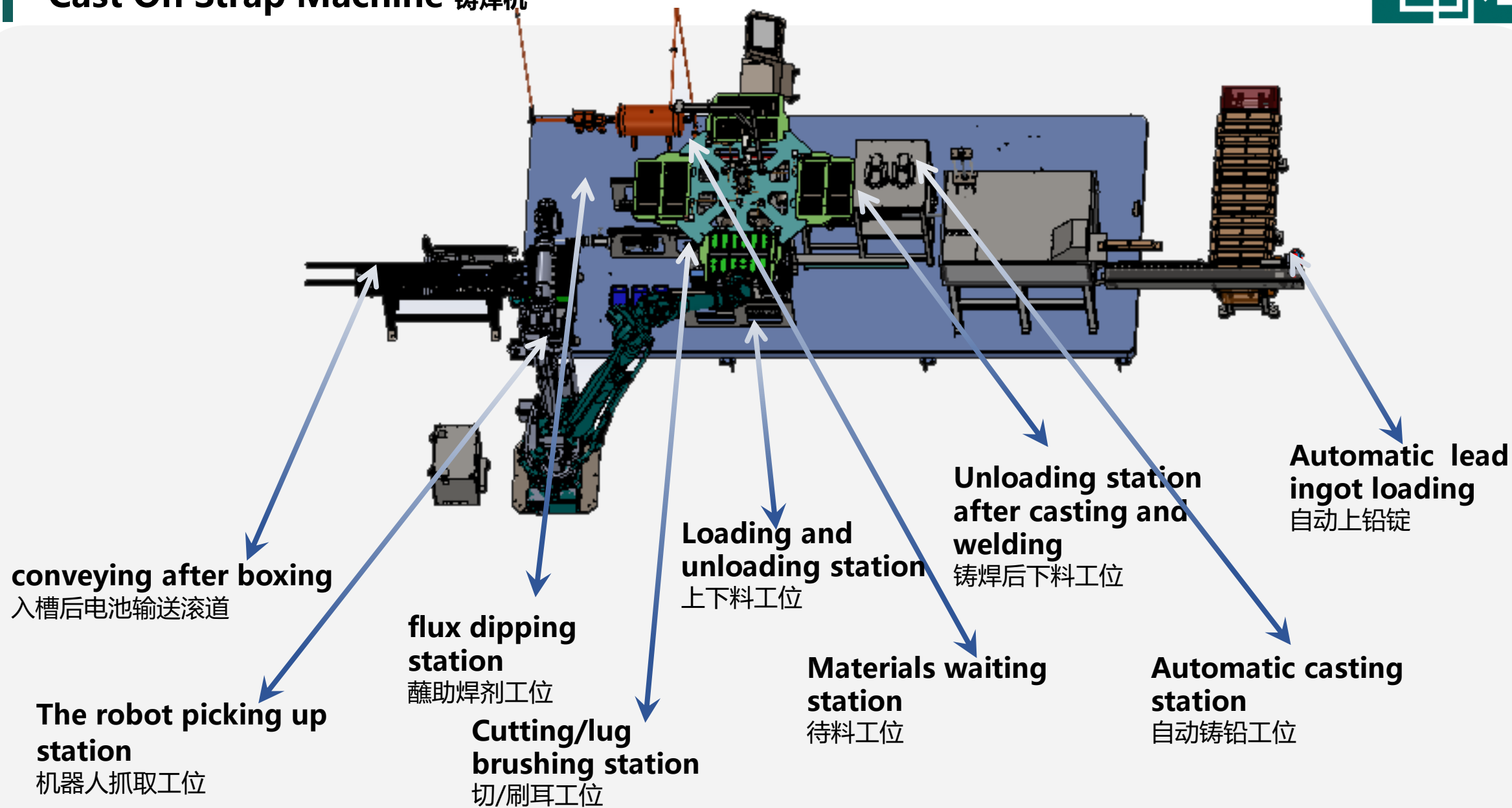
可备选：自动测压功能

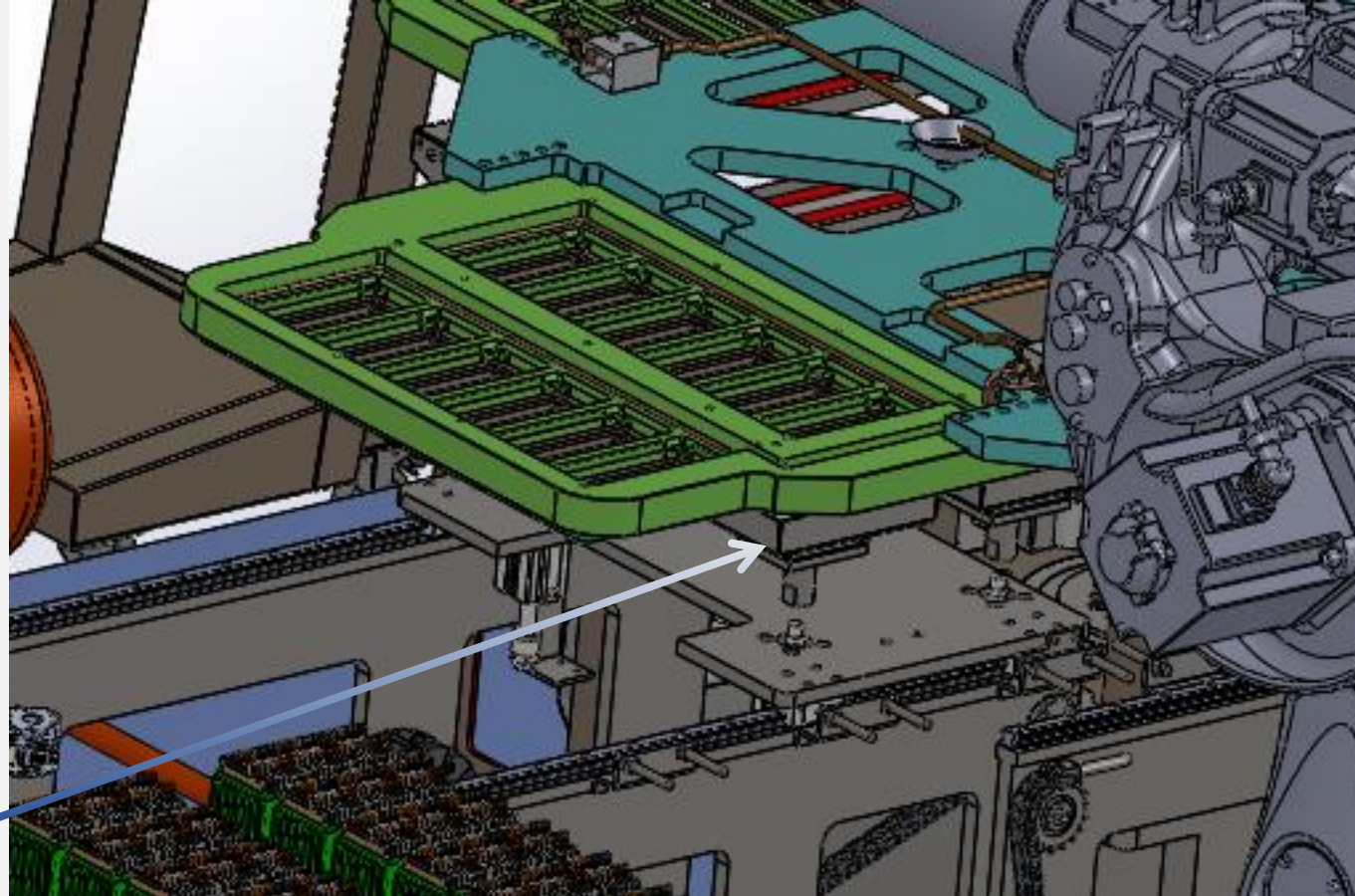


Cast On Strap Machine
24 pcs /min (12V20Ah)
8 batteries at one time, 3 cycles/min
铸焊机, 24只/分钟, 8只一次, 3个循环/分钟

**Totally enclosed design, and
environmental-friendly**
外观全封闭设计, 满足环保要求

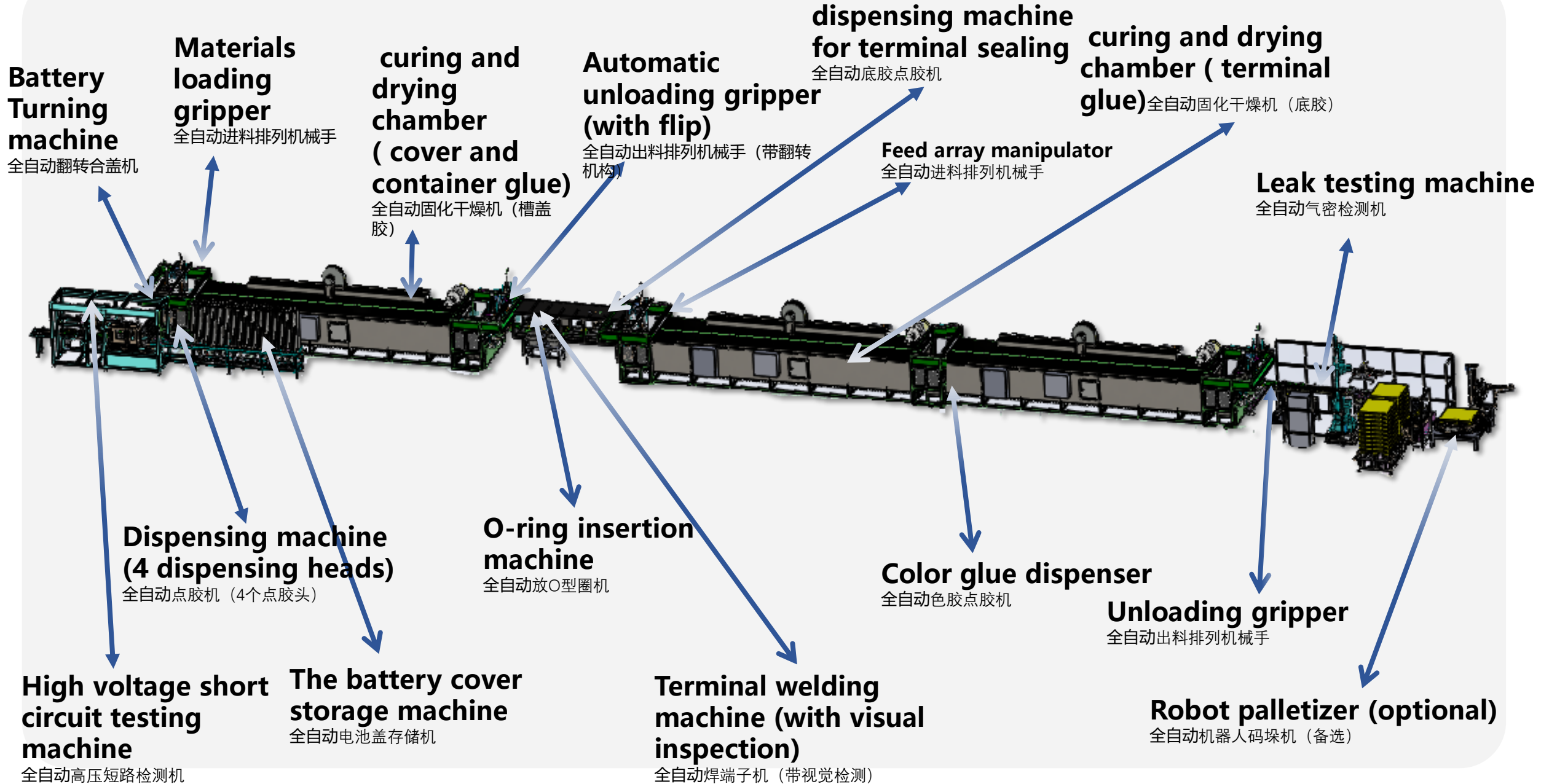






Dip flux station
蘸助焊剂工位

Assembly line layout 装配线后段布局





THANK YOU!
Welcome to visit
our booth No. 51



Jiangsu CEMT Intelligent
Equipment Co., Ltd.

ADD: NO.115,Xingmin South
Road,Jiangning,Science Park
Nanjing,P.R.China

E-mail : sales@cemt.cn

F-Sales Hotline: +86 25
87186082 87186061

Aftermarket Line: 400-8899-209

Fax: +86 25 87186081