

Cangzhou Huazhi Machinery Equipment Co., Ltd





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The technical team of Cangzhou Huazhi Machinery Equipment Co., Ltd. was established in 2008 as a high-tech enterprise specializing in the R&D and manufacturing of intelligent automated equipment and production lines. Its main products include intelligent warehousing systems, laser cutting machine automatic loading/unloading robotic arms, gantry-type heavy-duty loading/unloading robotic arms, industrial handling and palletizing robots, intelligent cutting and welding equipment, automated packaging equipment, as well as automated sheet metal production lines, intelligent packaging production lines, and intelligent warehousing production lines. The company holds dozens of invention and utility model patents, with extensive experience in the R&D, production, and commissioning of automated intelligent equipment.

Corporate Honors

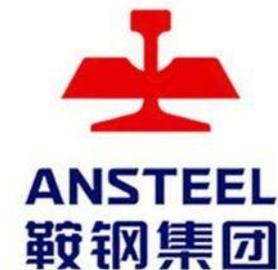
企业荣誉



strategic cooperation



Bystronic



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Baidu

strategic cooperation



Strong research and development capabilities, obtained dozens of patent certificates

The product has obtained dozens of patents of various types, fully reflecting the company's technological leadership and core competitiveness in the manufacturing industry



Overseas users come to the factory to place orders



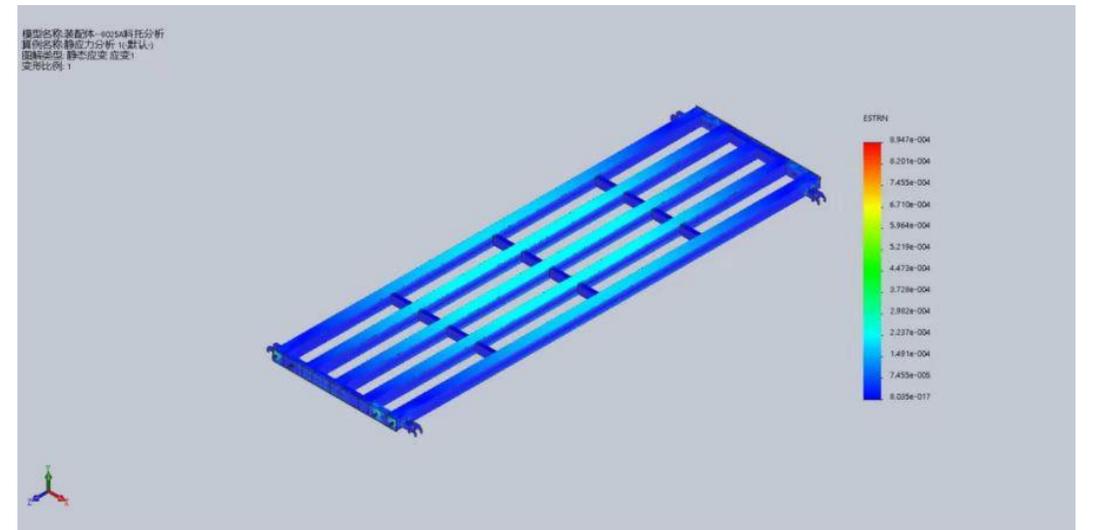
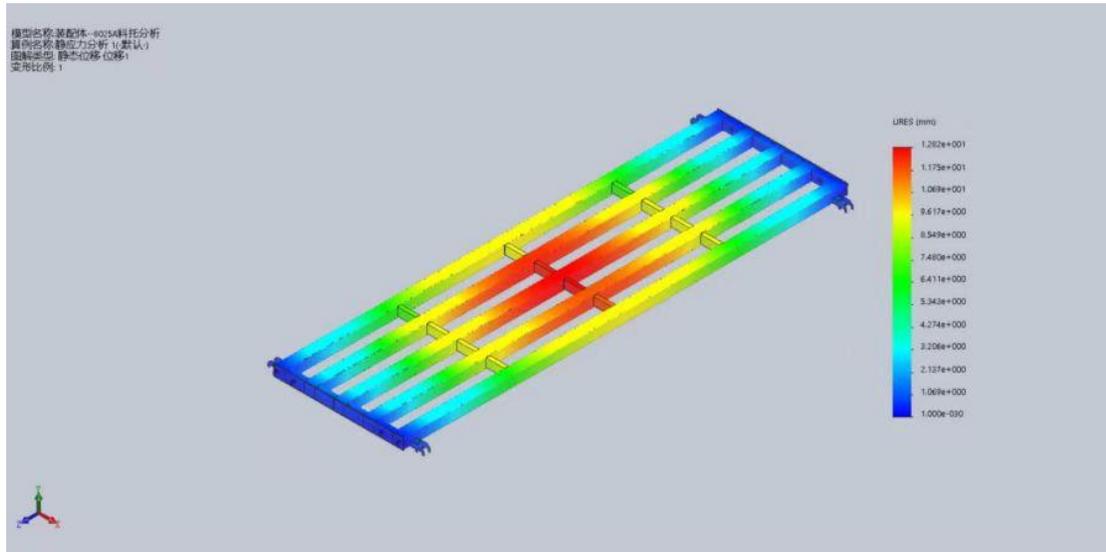
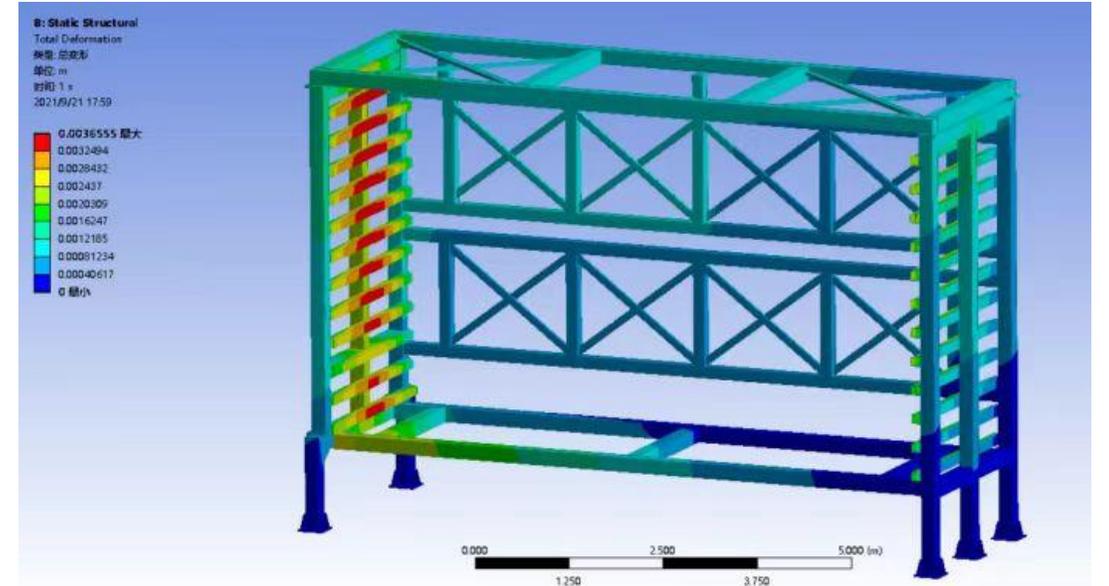
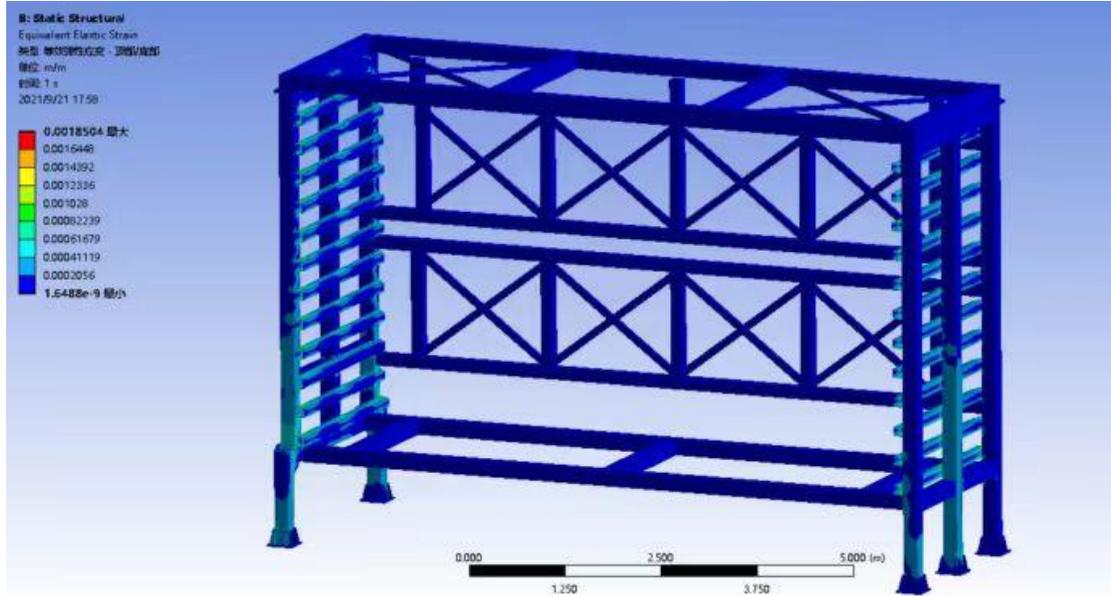
Production Workshop 1



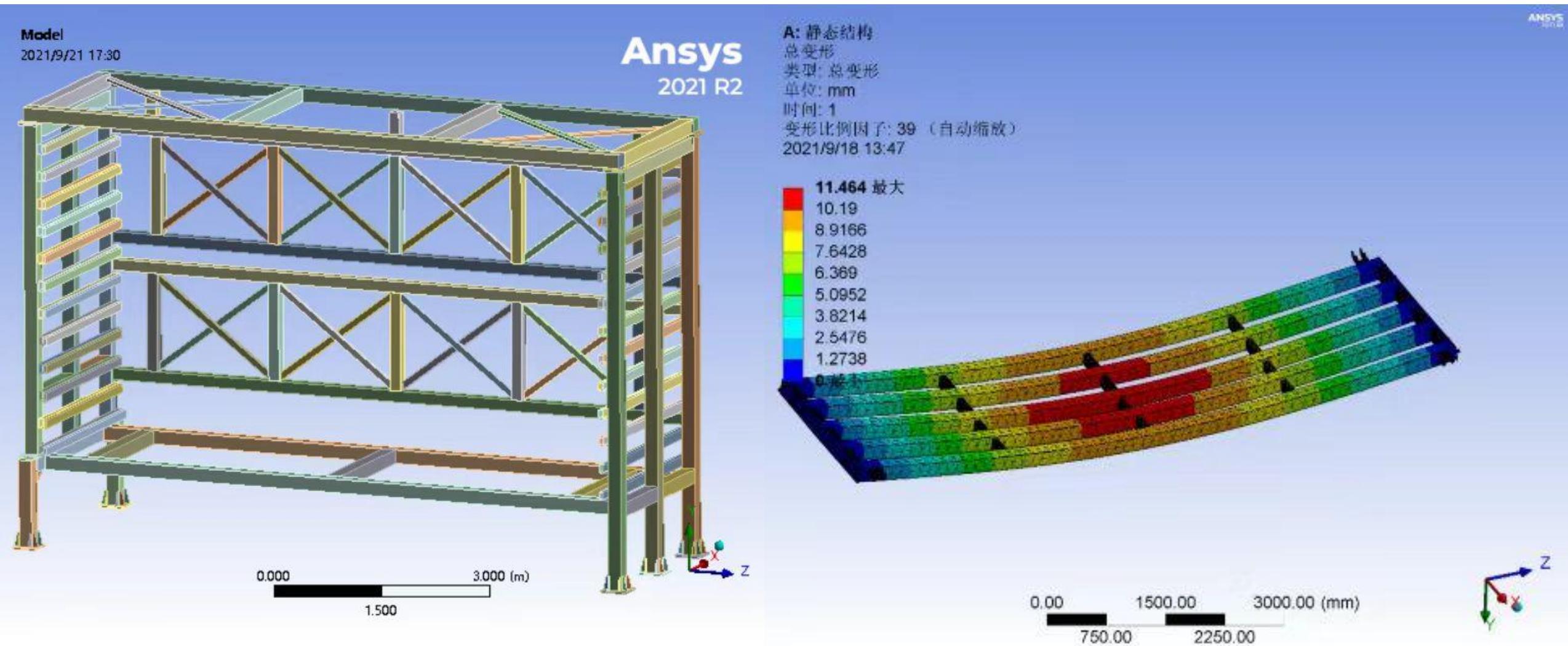
Production workshop 2



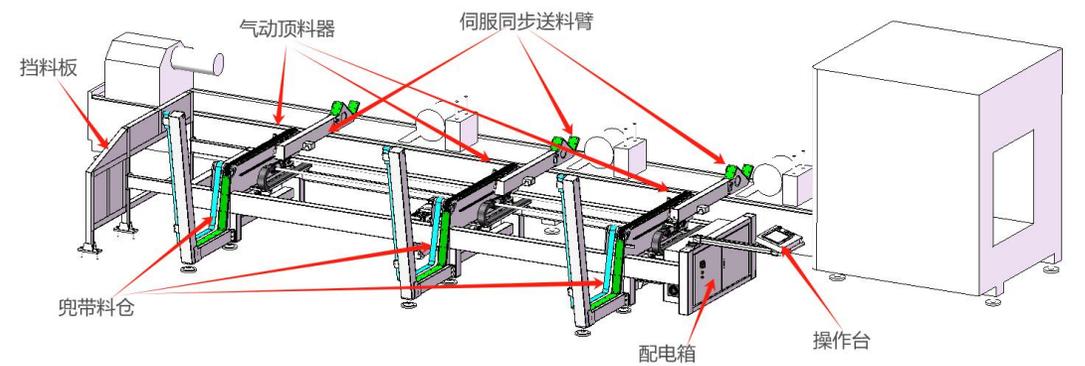
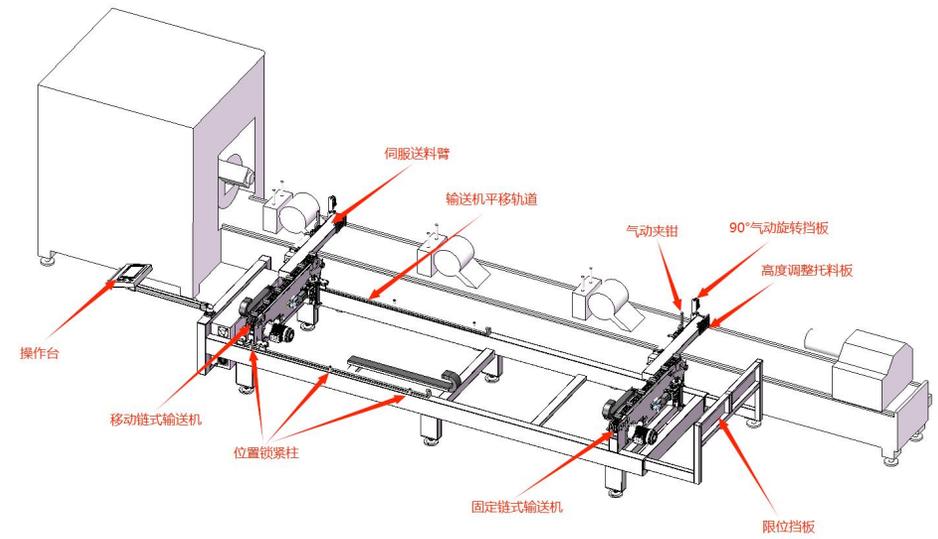
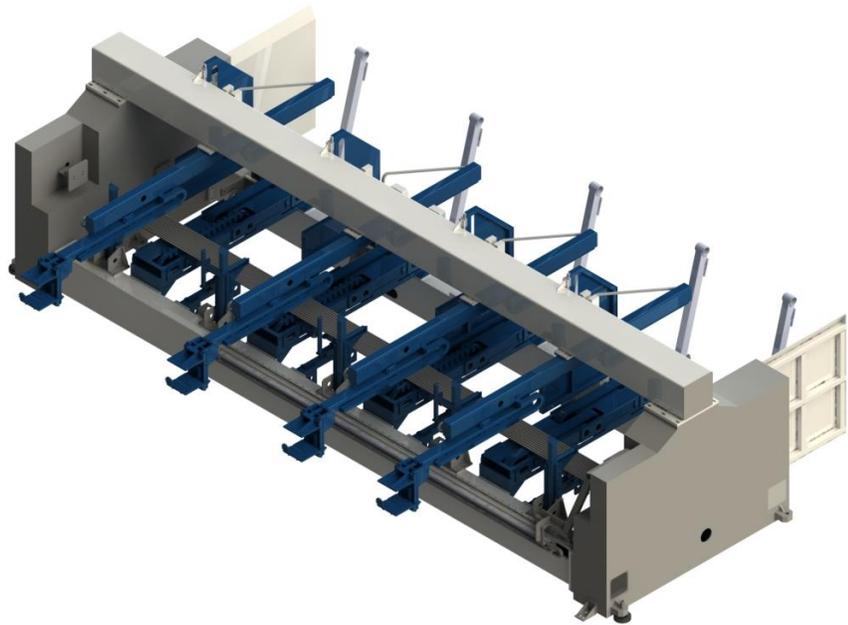
High frequency vibration aging stress relief treatment



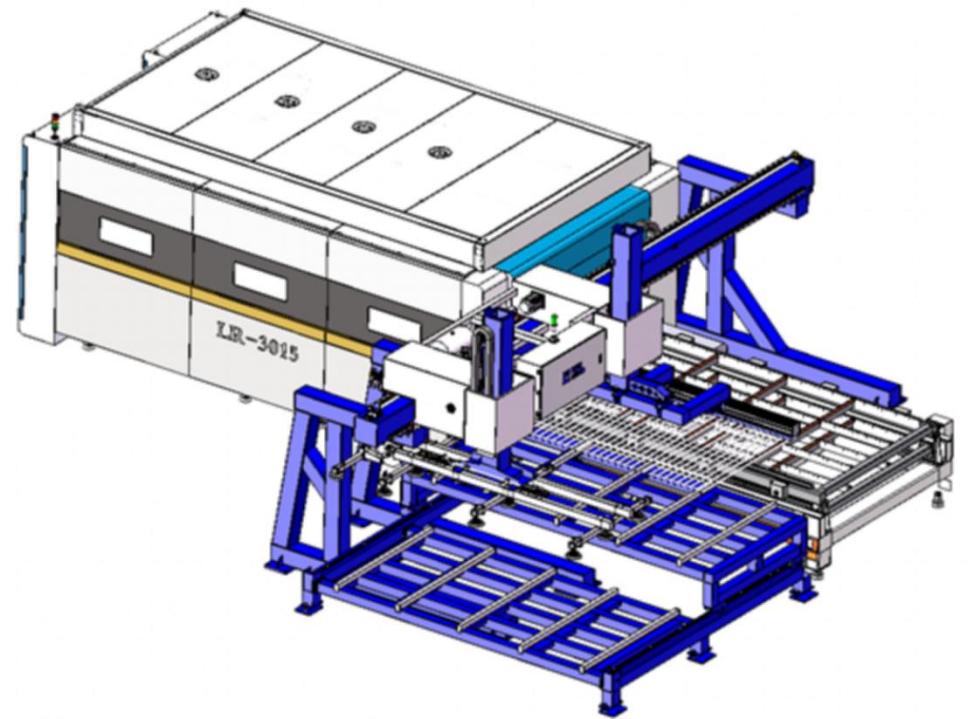
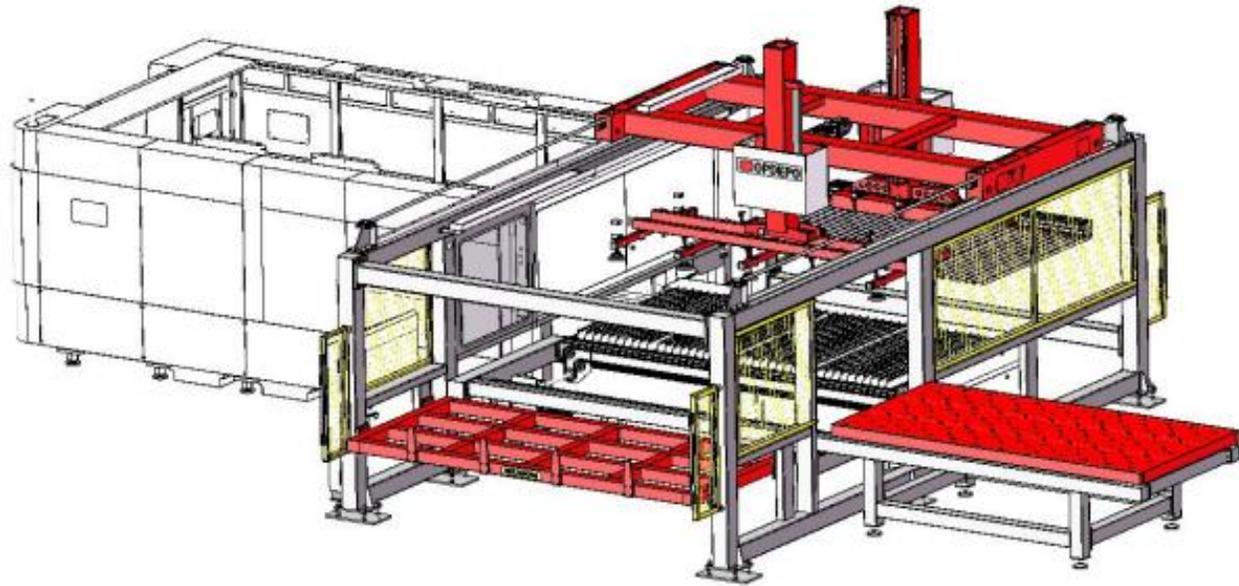
High frequency vibration aging stress relief treatment



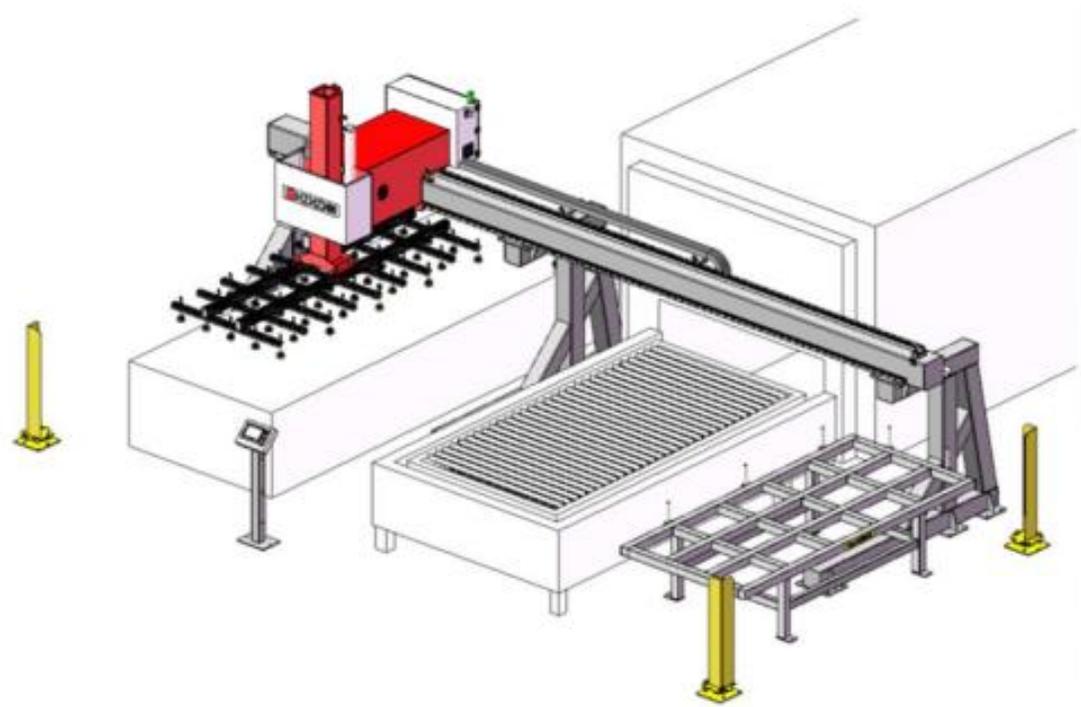
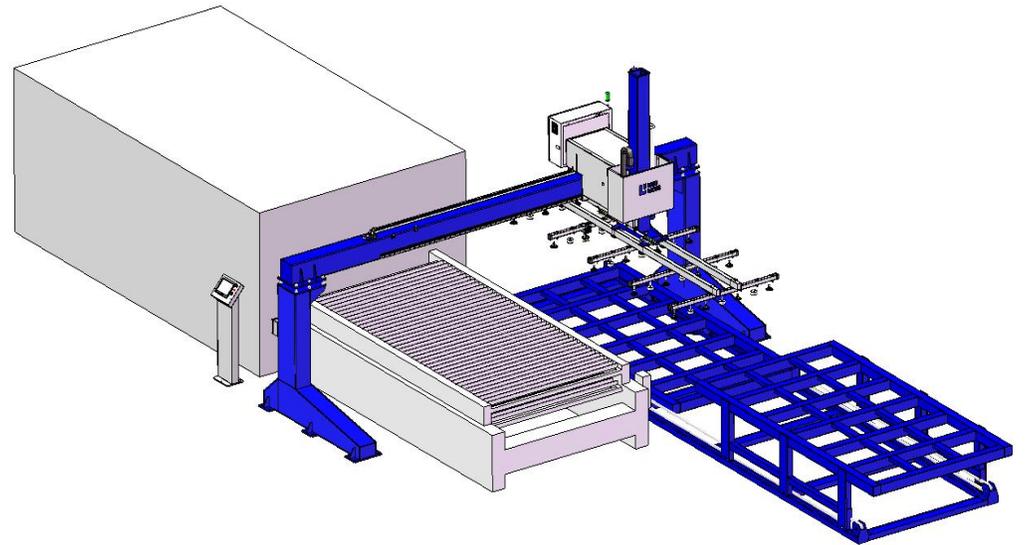
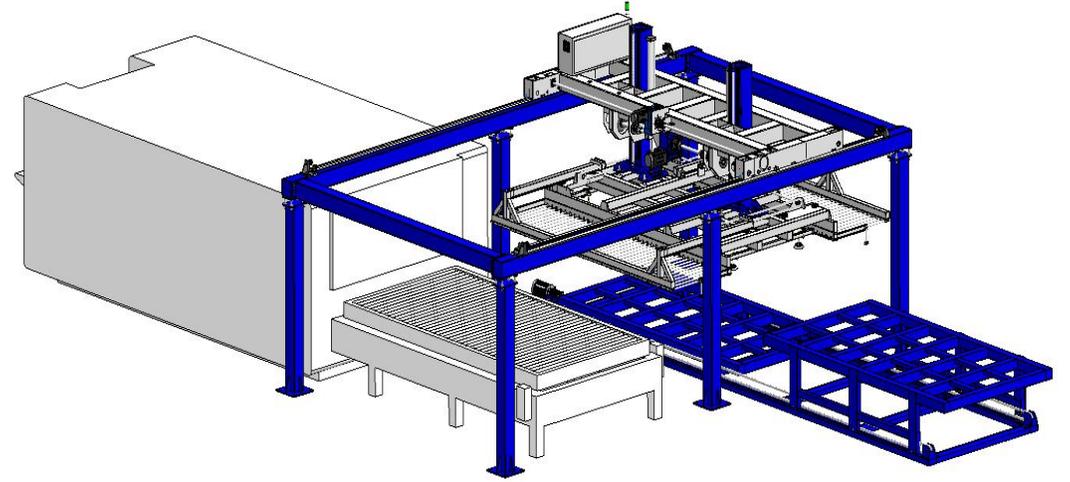
Pipe cutting and feeding machine series



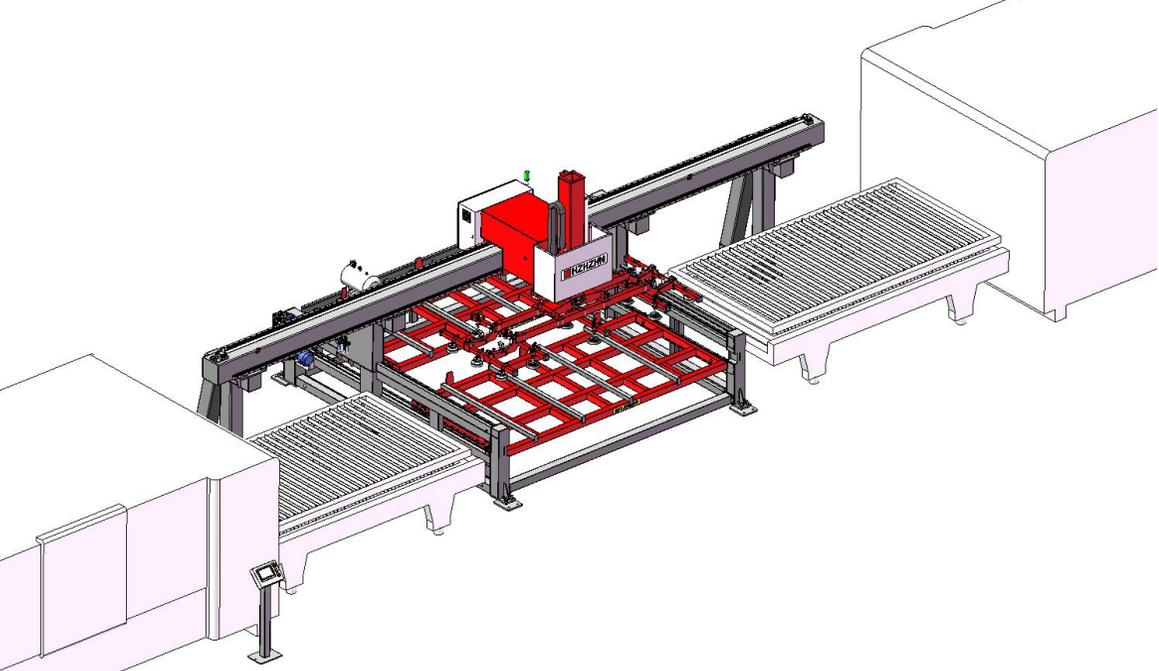
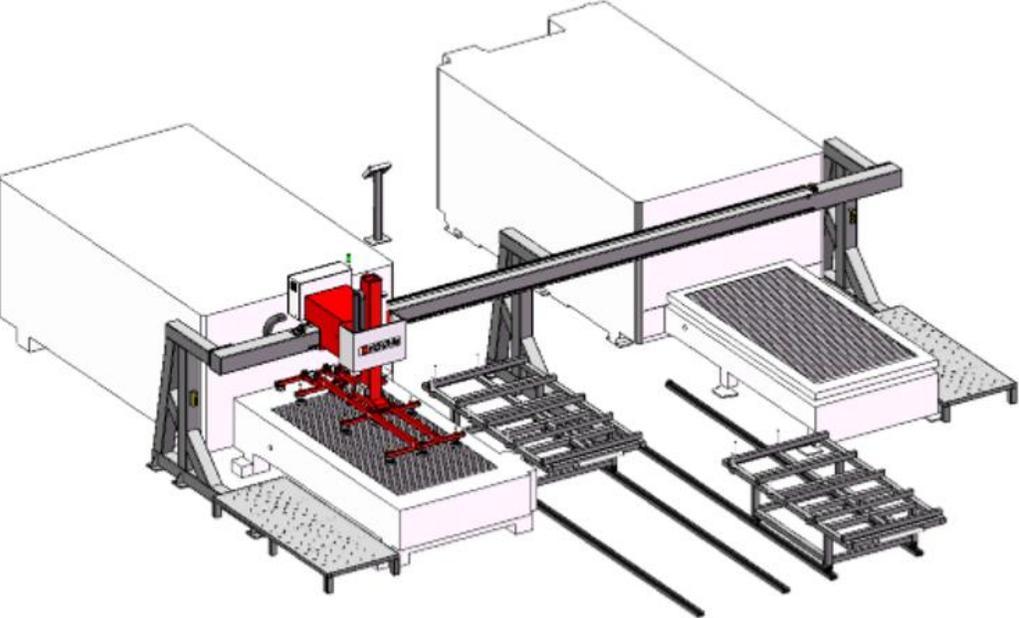
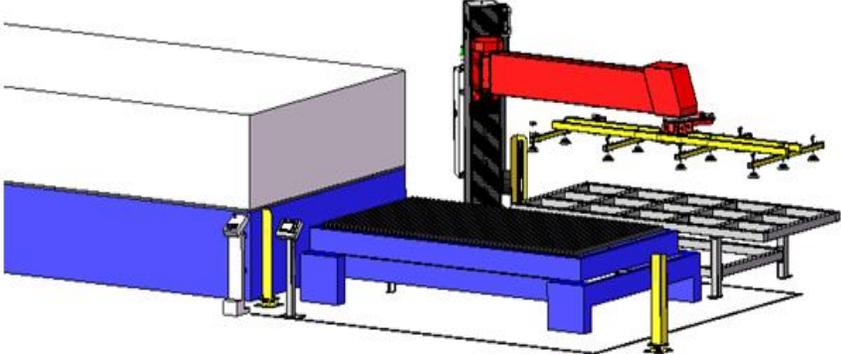
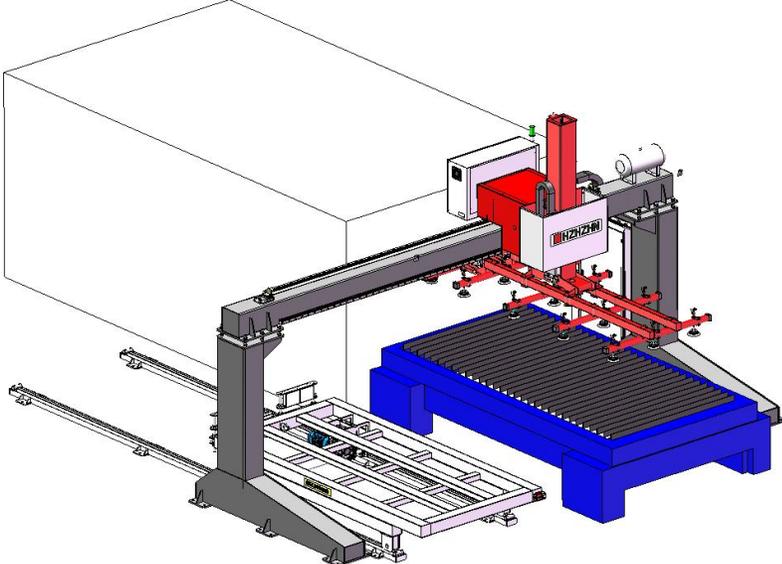
Single fork loading and unloading series



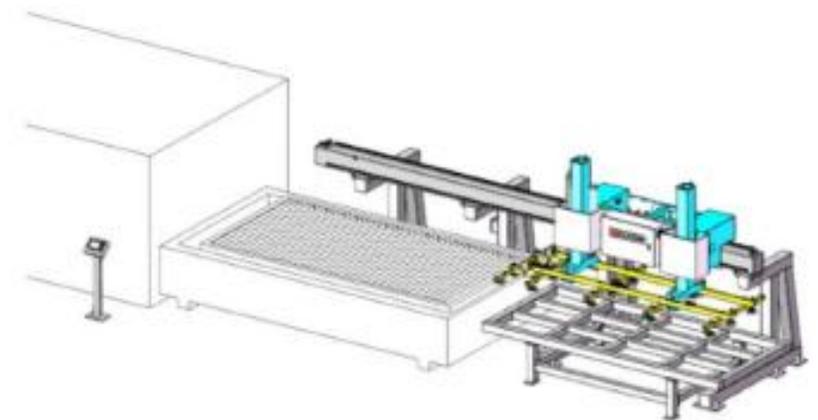
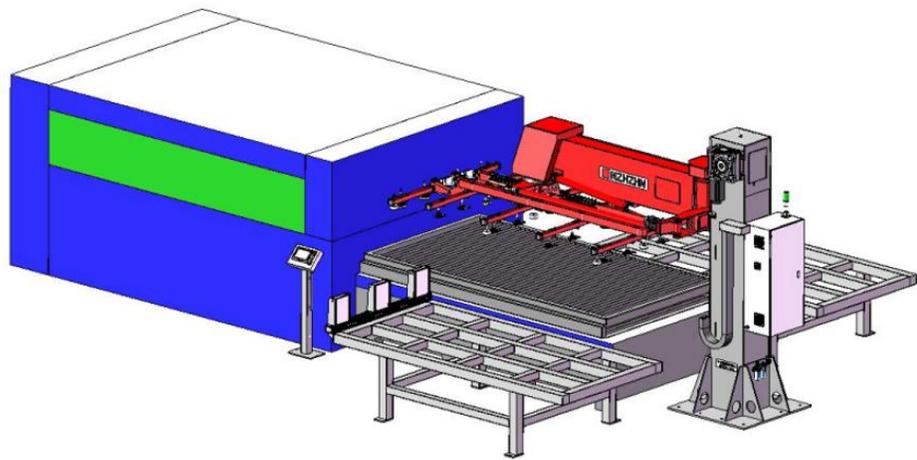
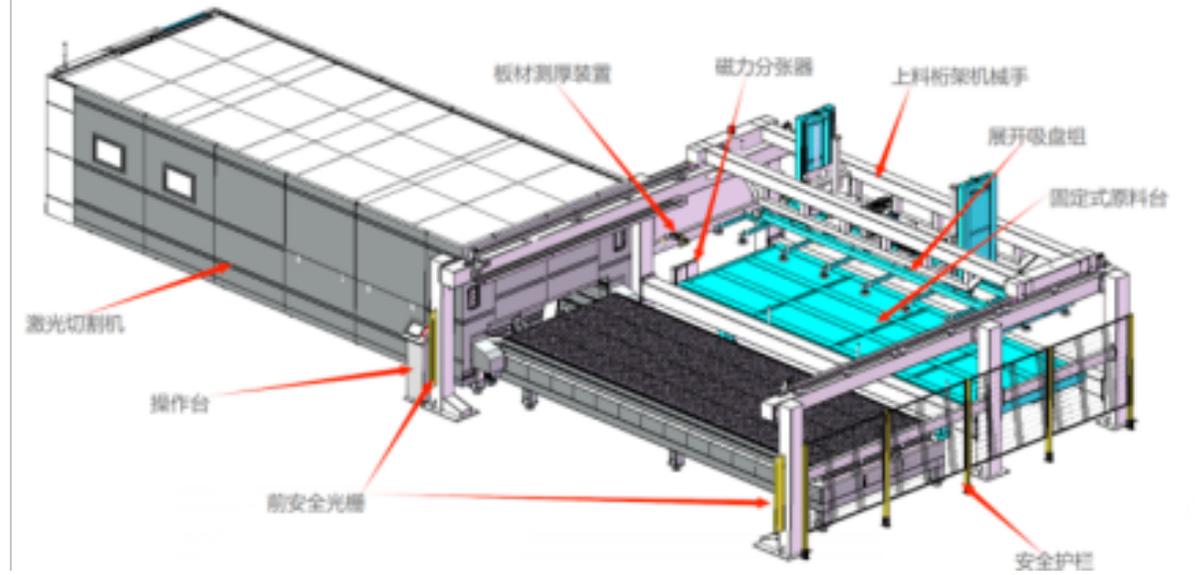
Loading and unloading series

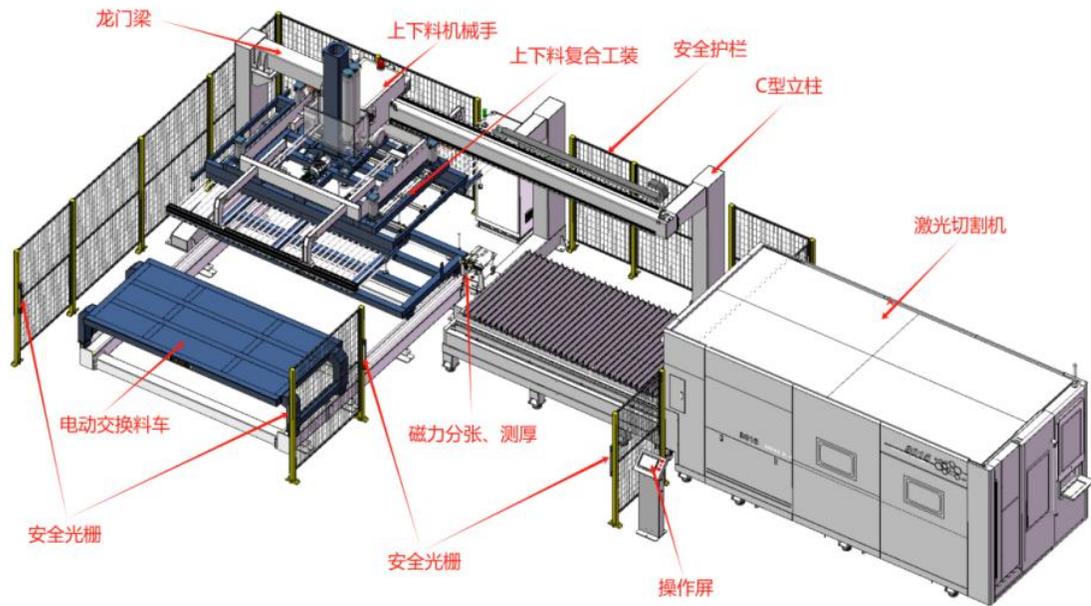


Loading series

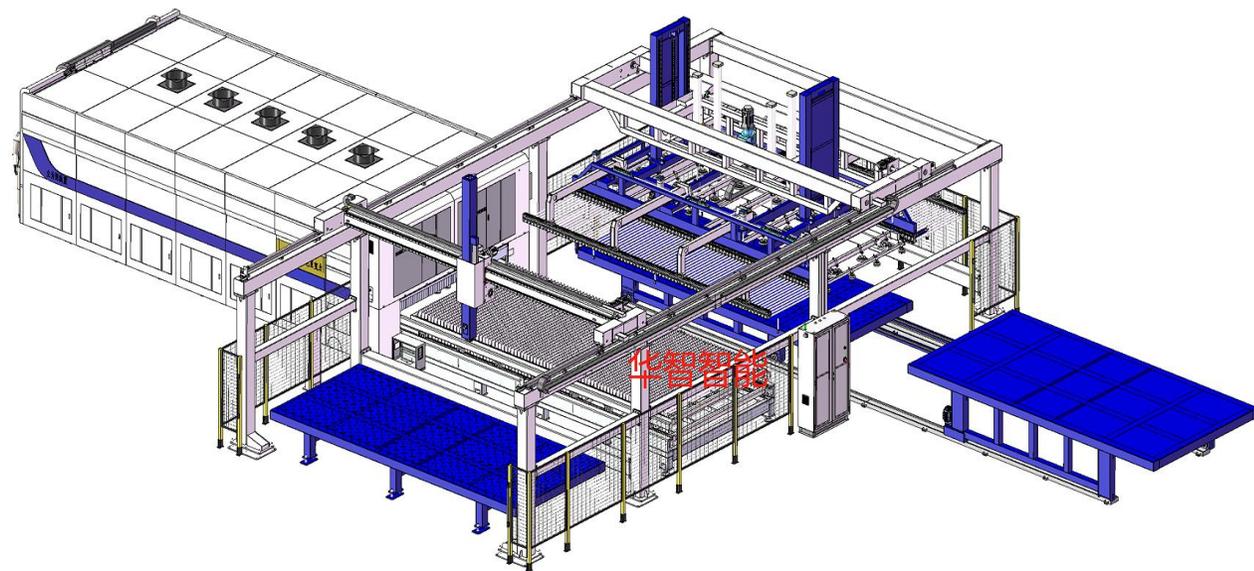


Loading series

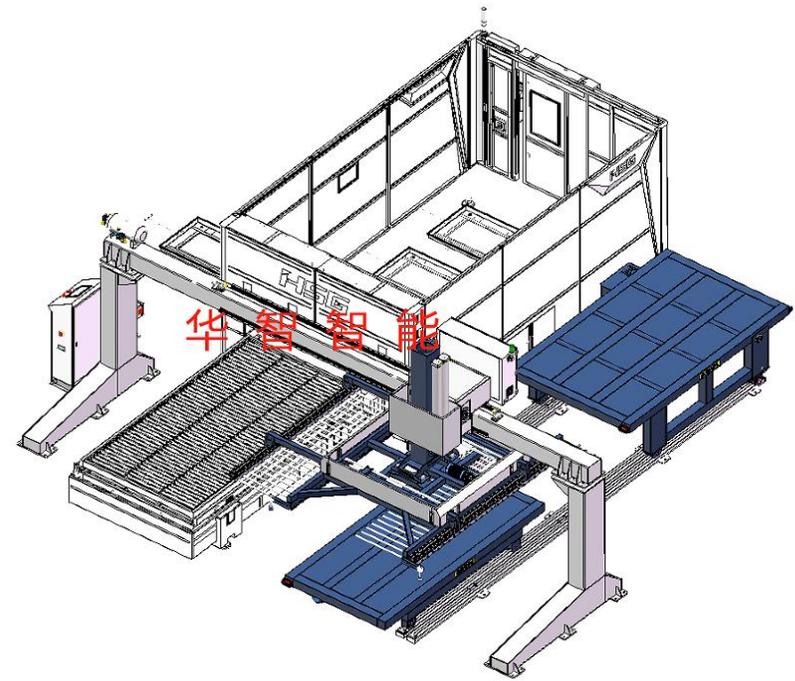
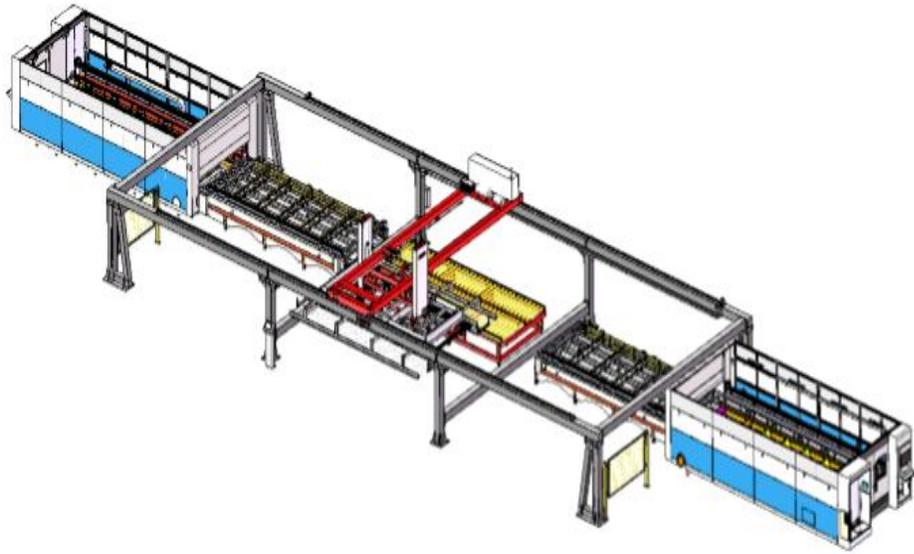




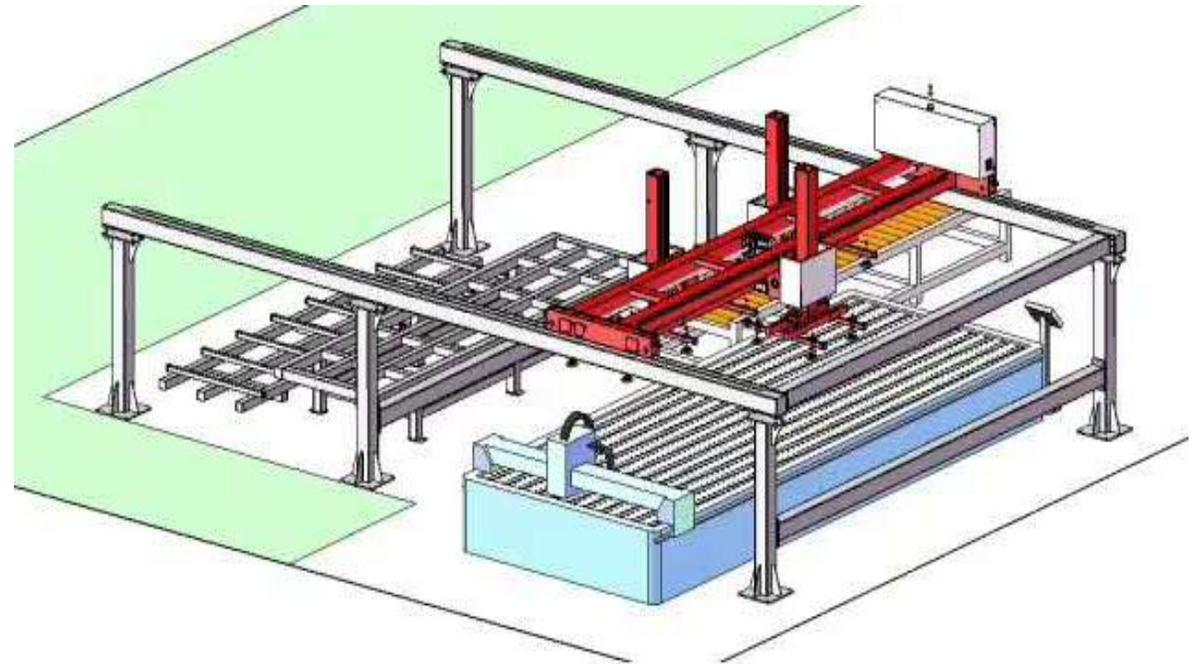
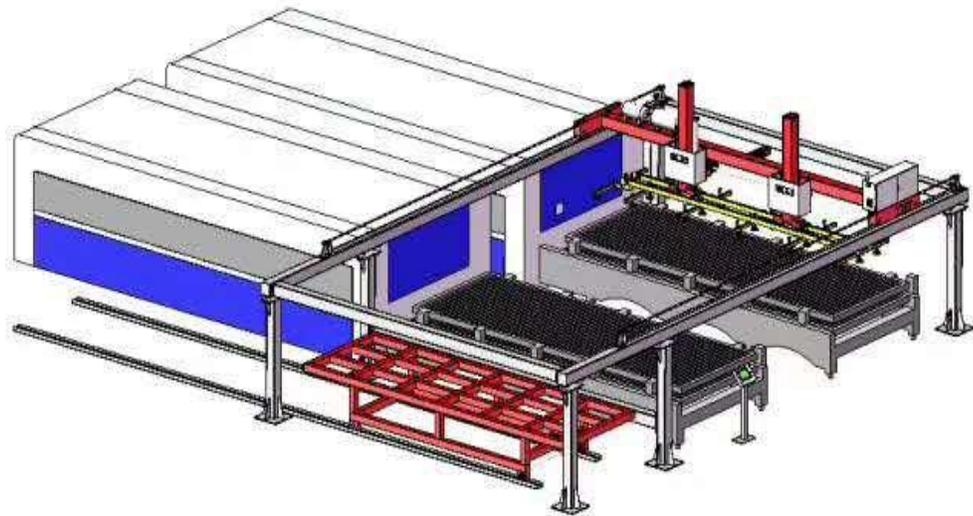
One to one loading and unloading series



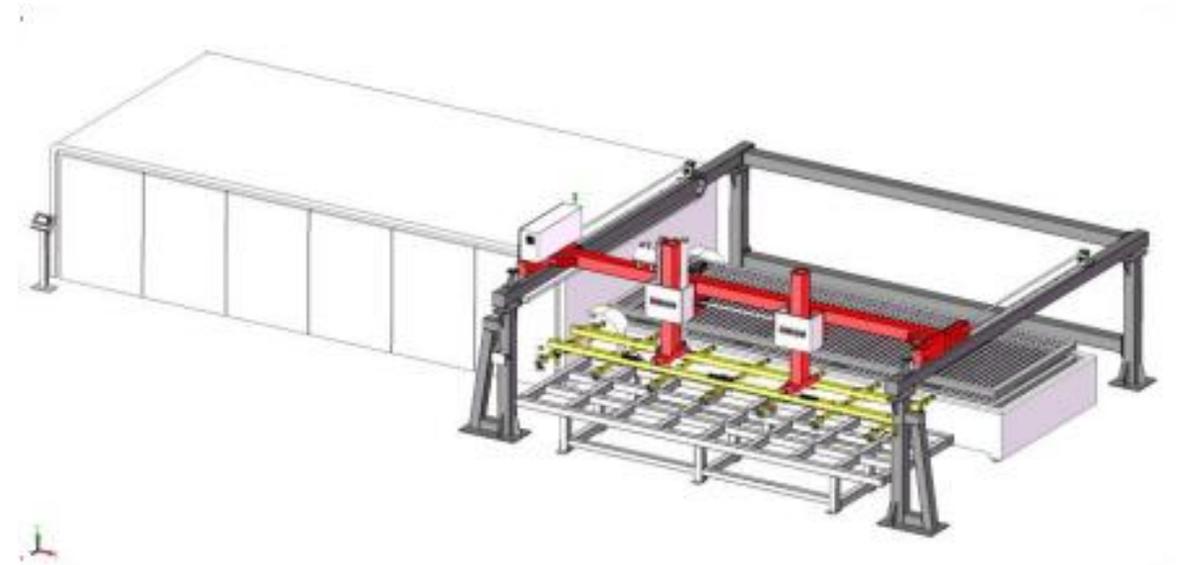
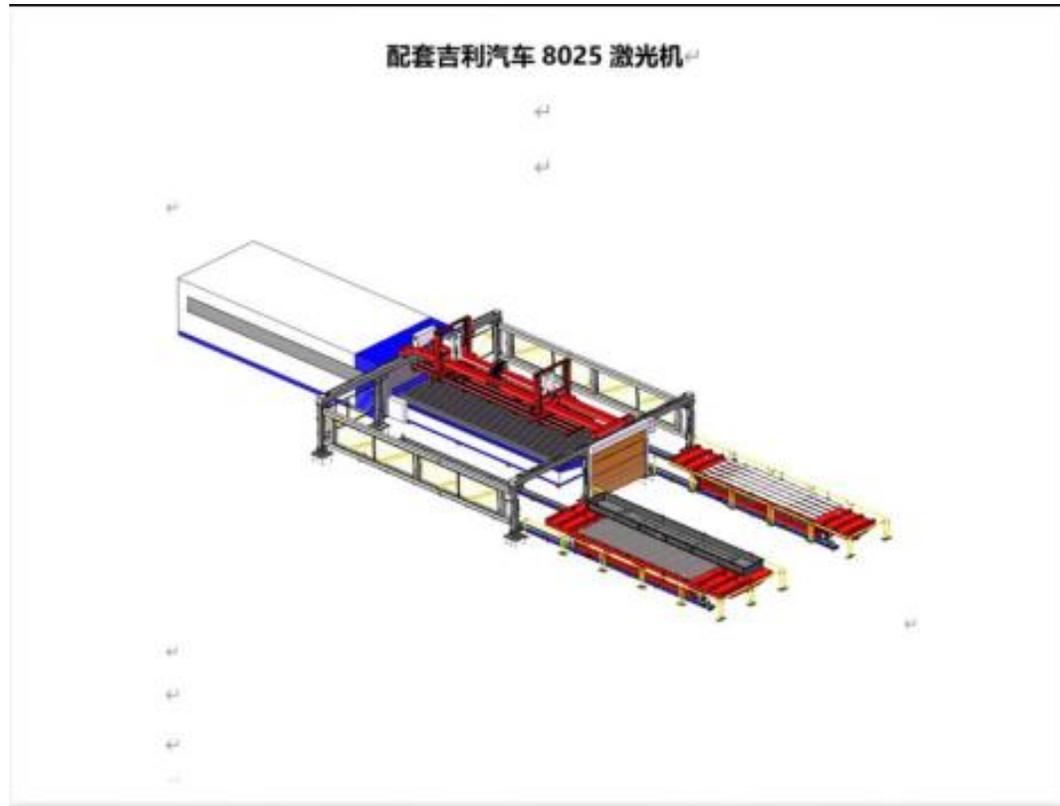
Loading and unloading series



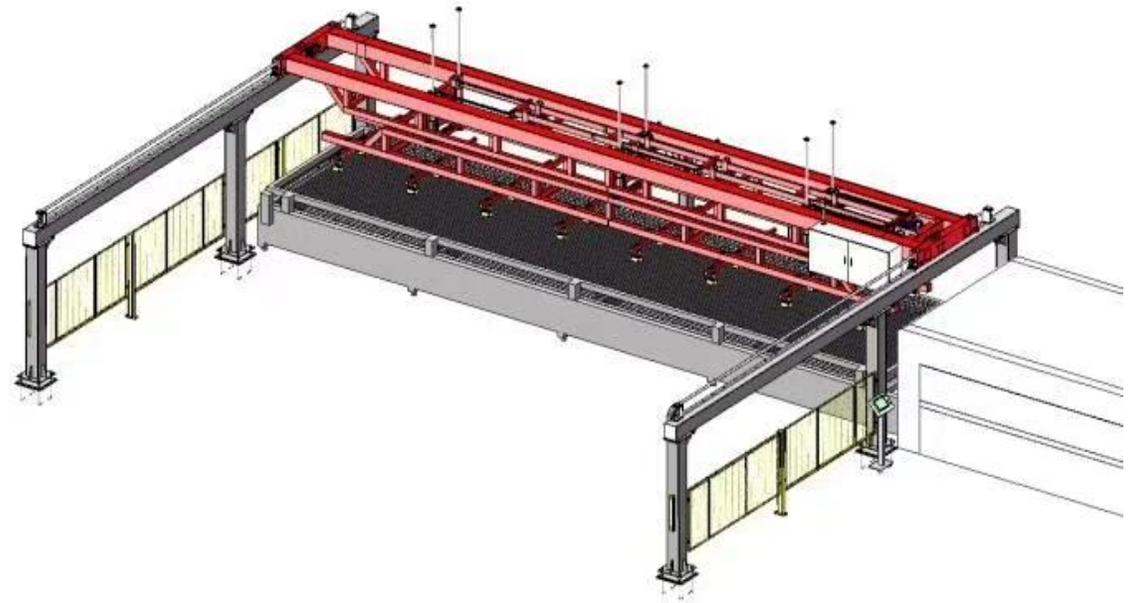
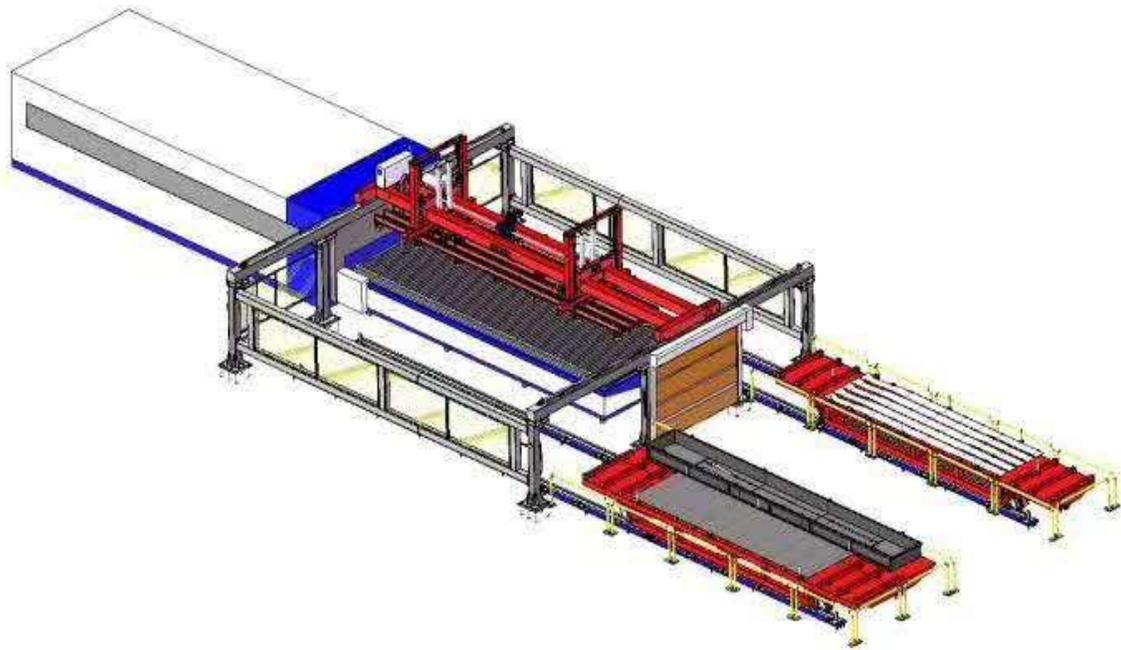
Electric permanent magnet loading and unloading



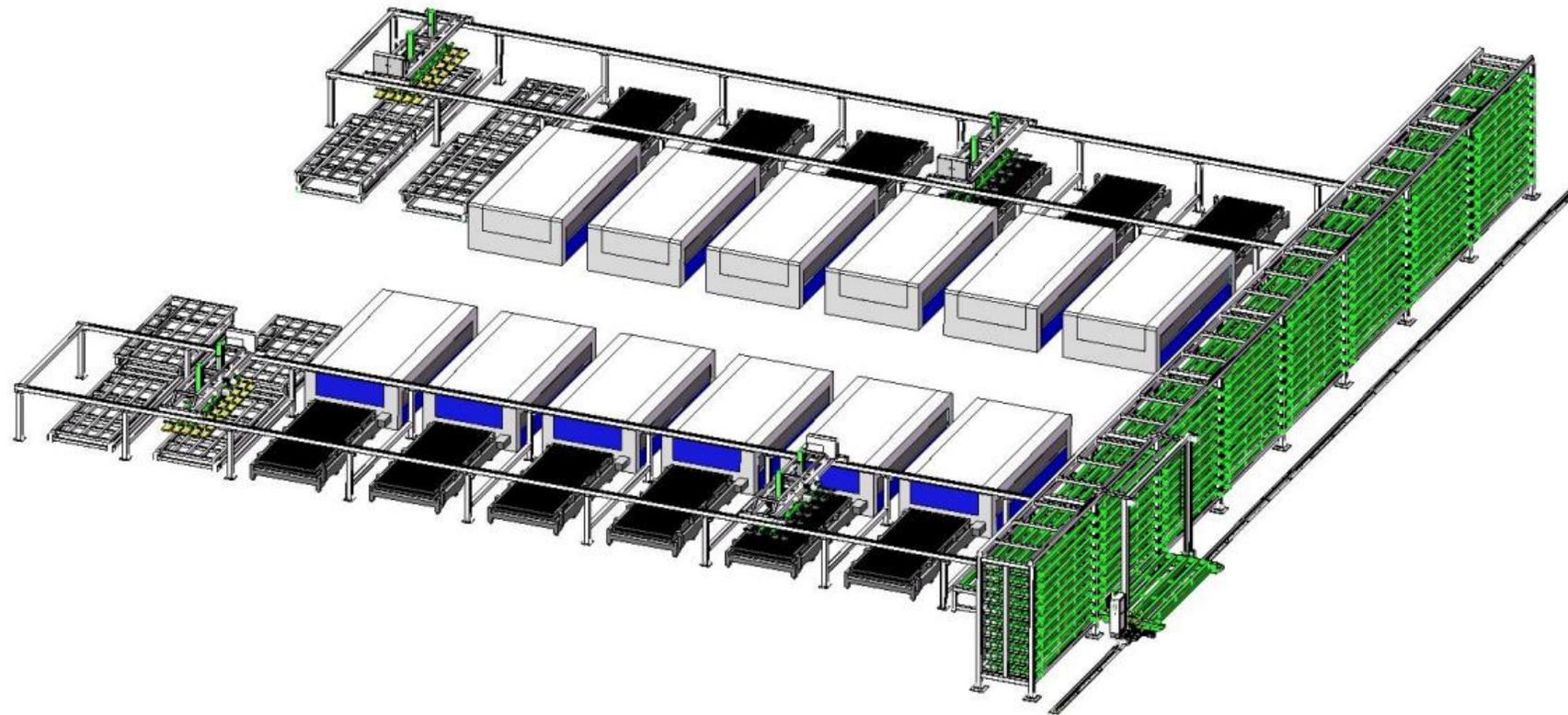
Frame style loading and unloading



Frame type electric permanent magnet loading and unloading



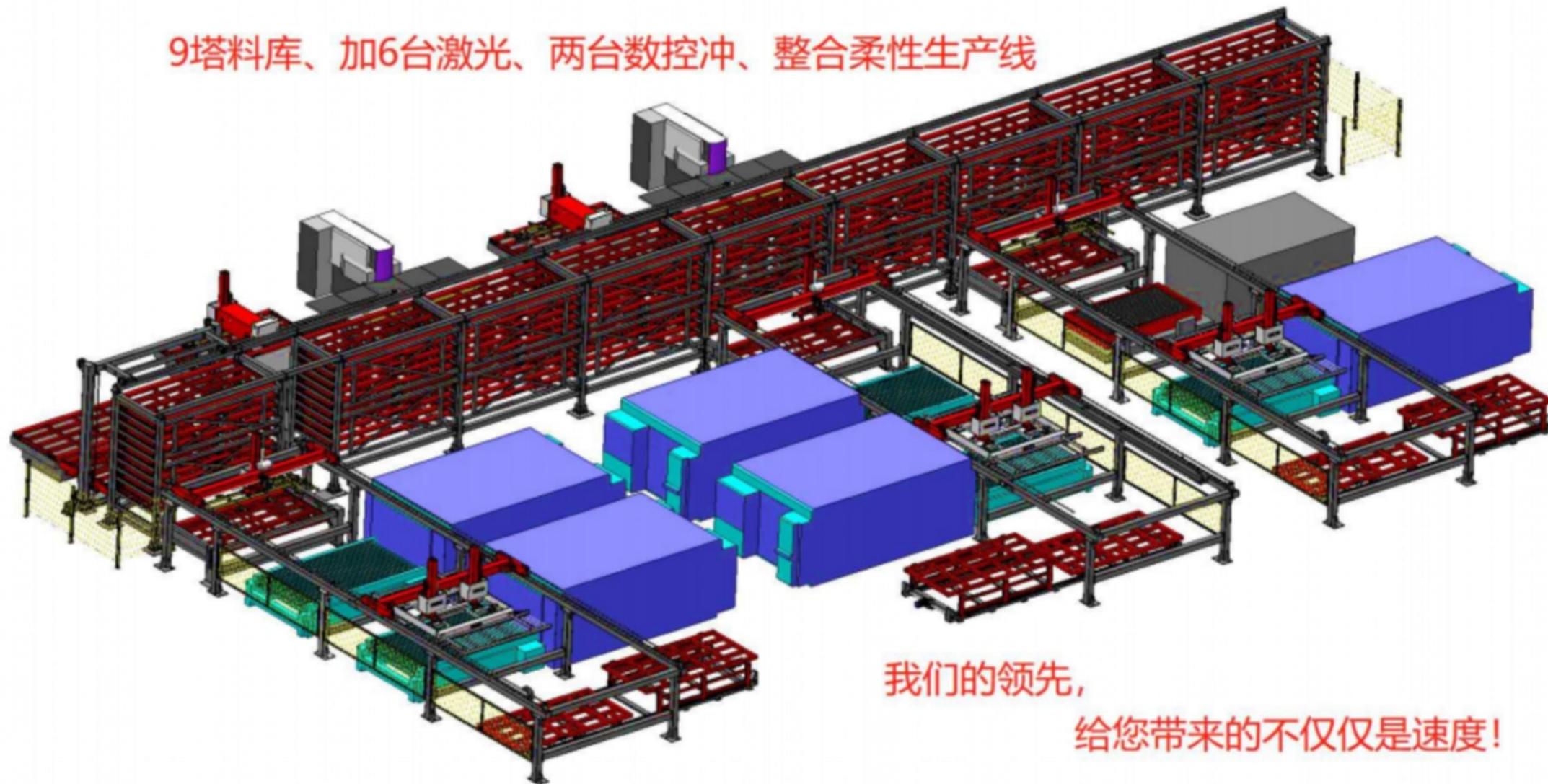
Multi row warehouse loading and unloading series



Multi row warehouse production line

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9塔料库、加6台激光、两台数控冲、整合柔性生产线



我们的领先,

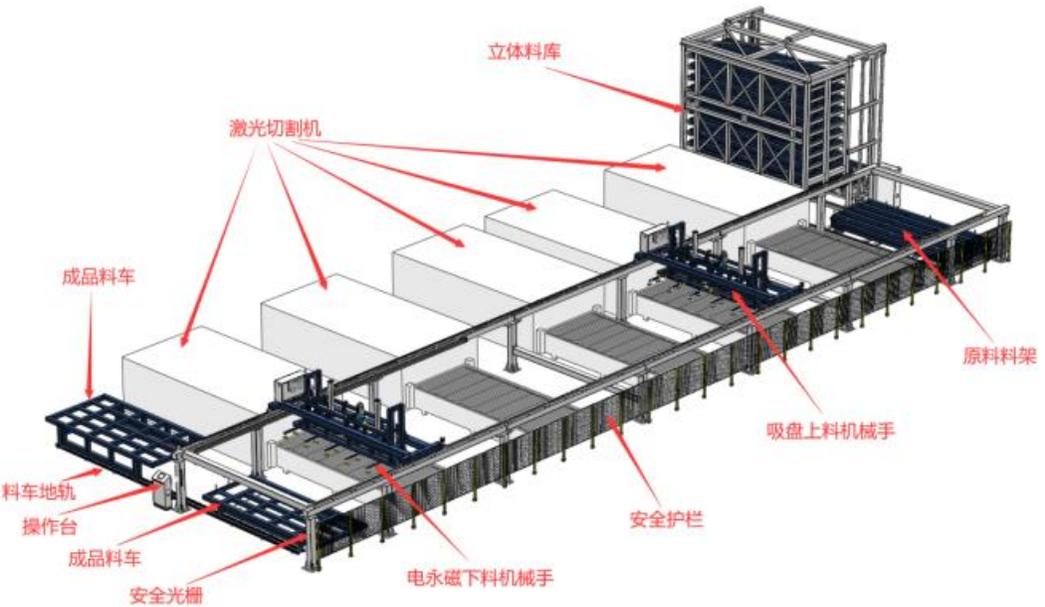
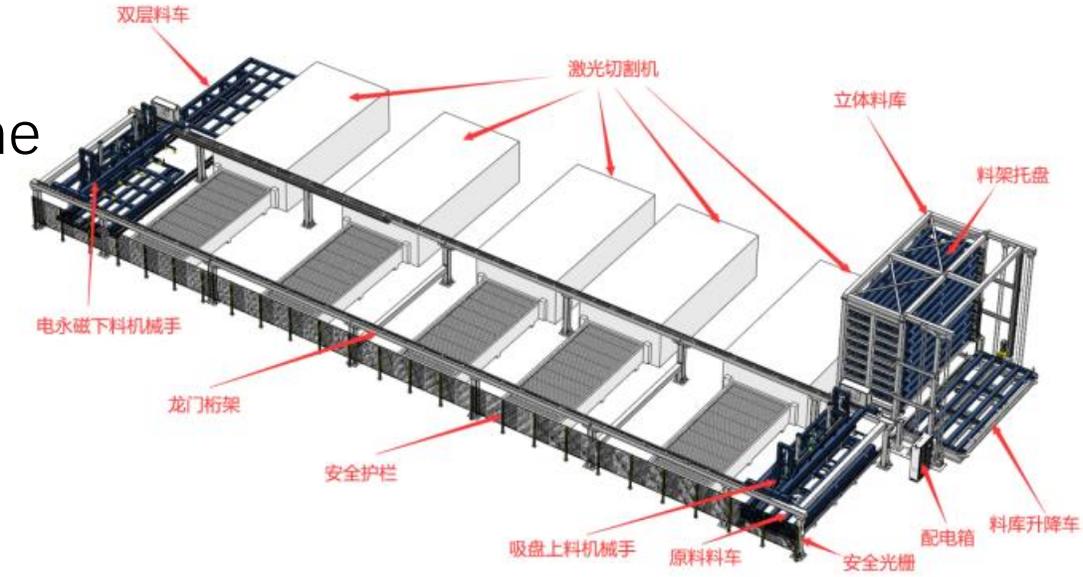
给您带来的不仅仅是速度!



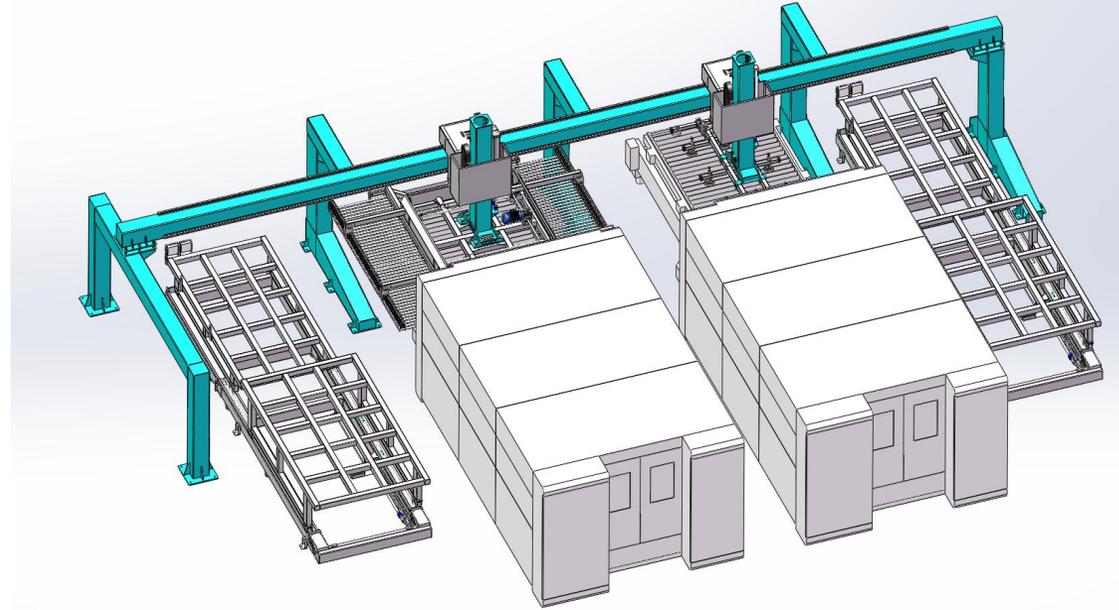
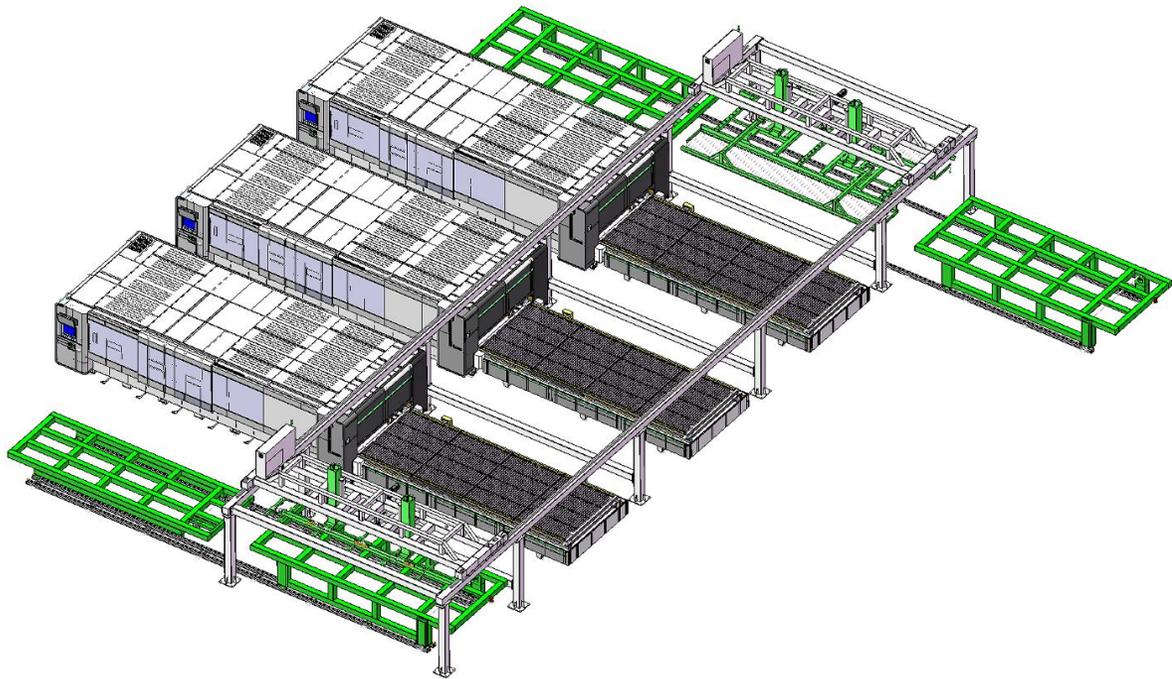
Double row and multi row warehouse



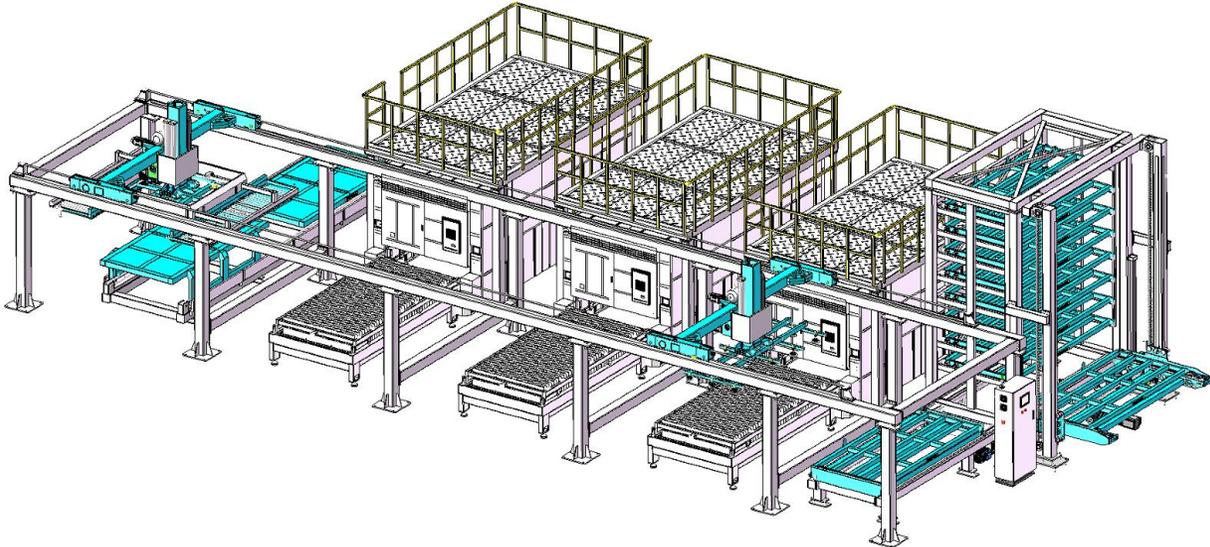
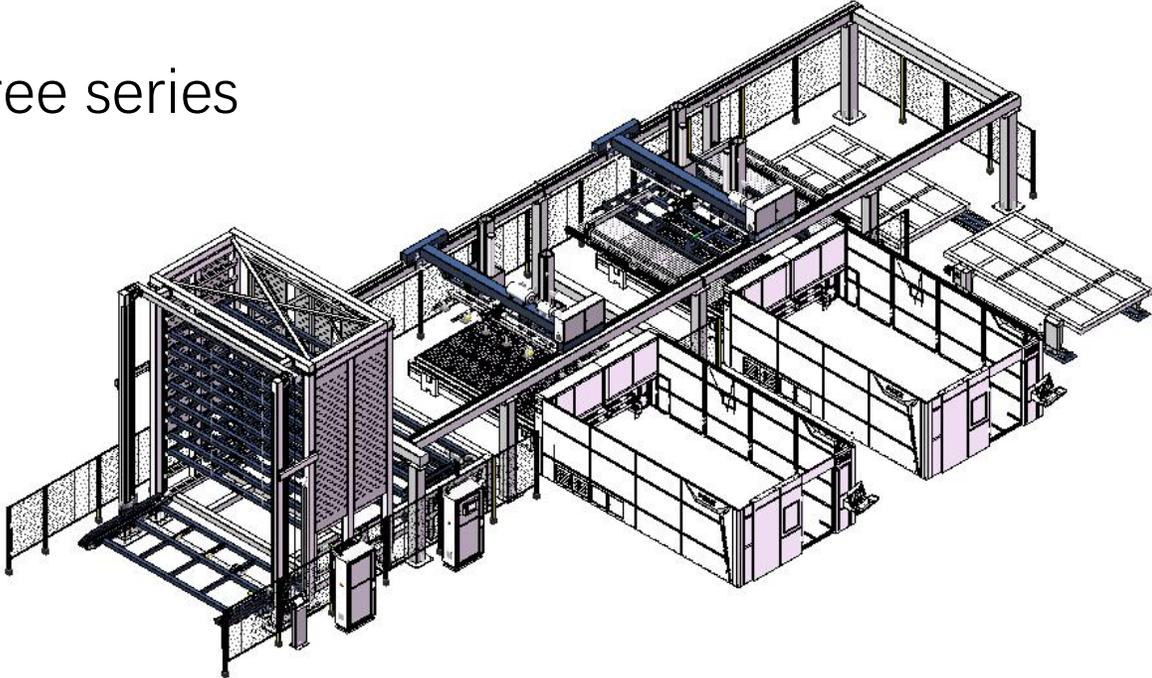
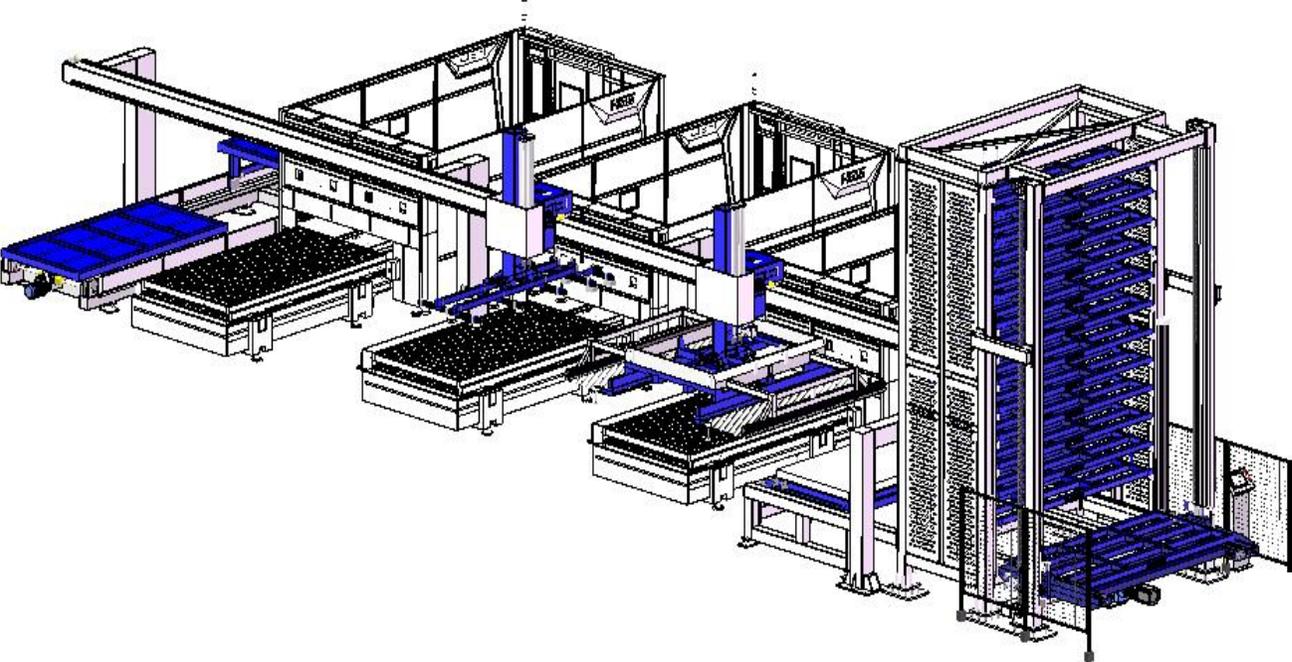
Large material warehouse with one to five loading and unloading



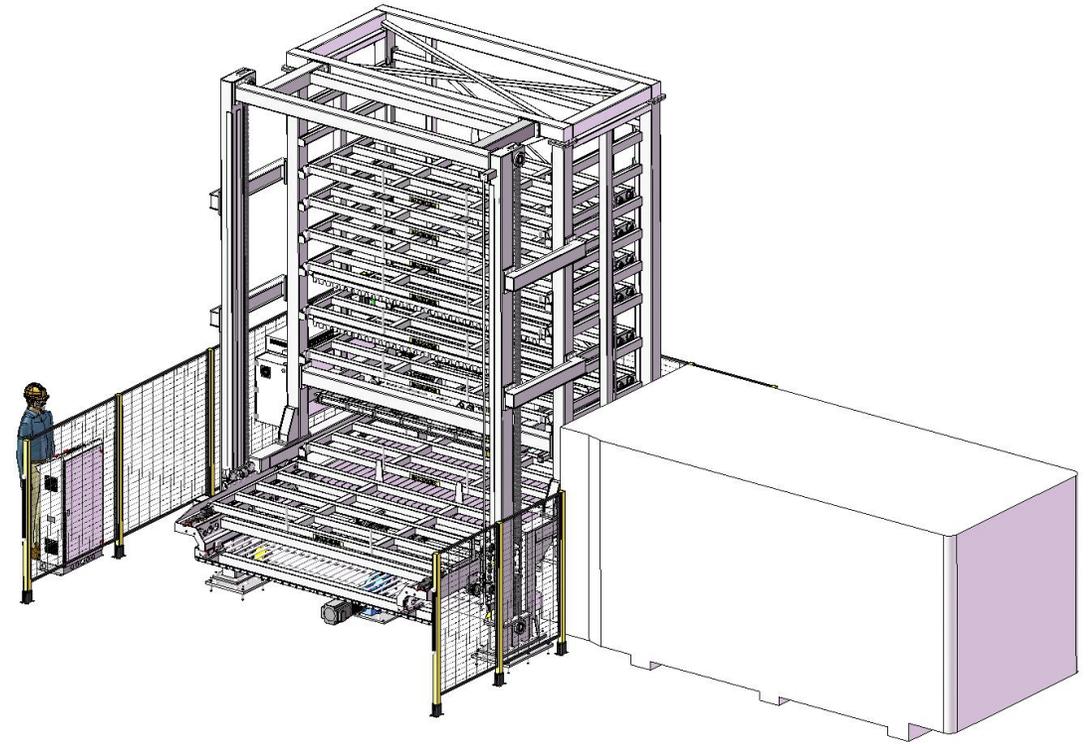
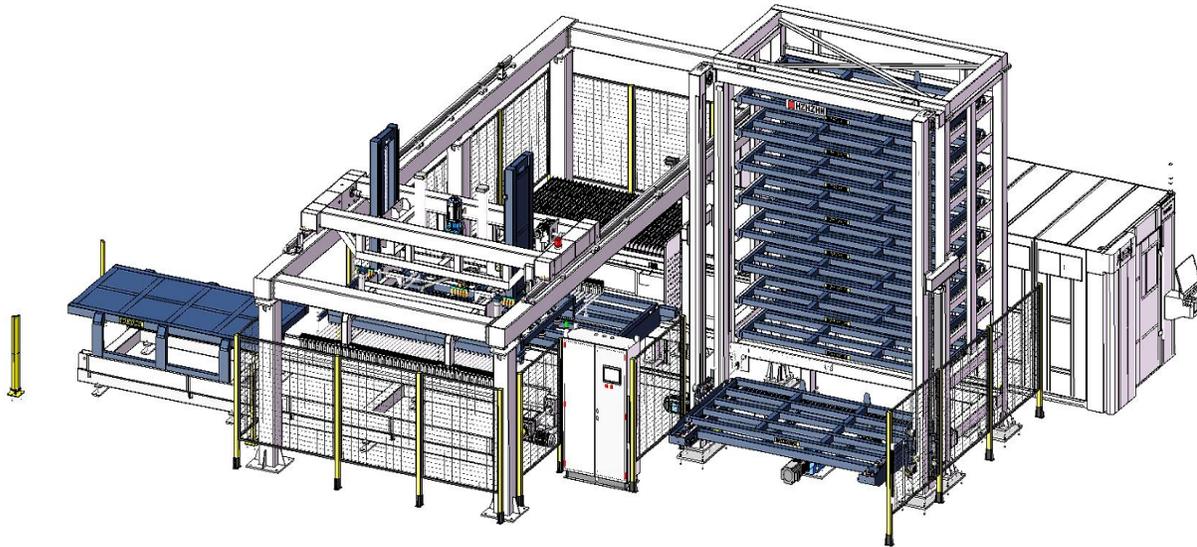
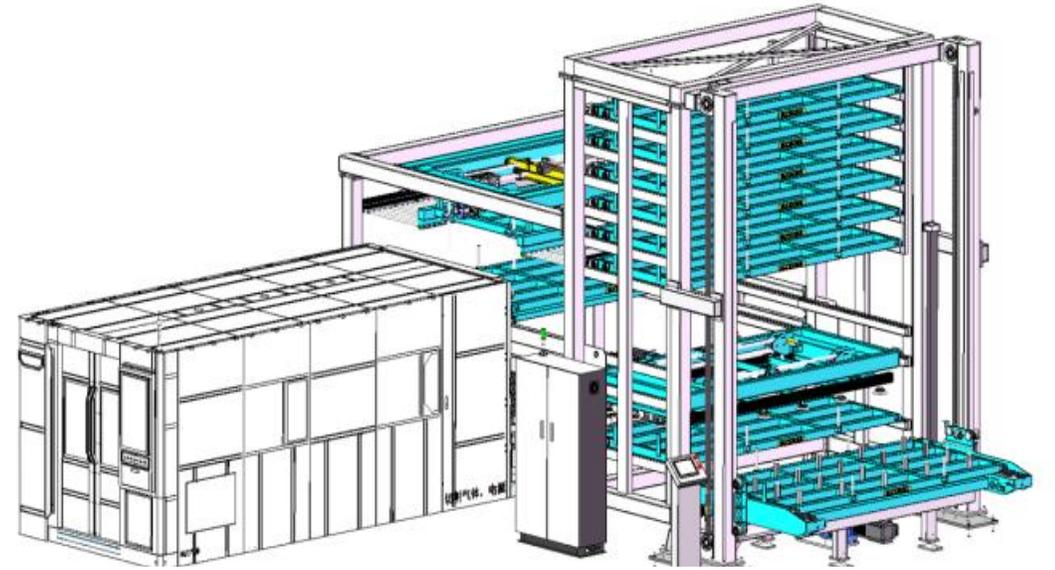
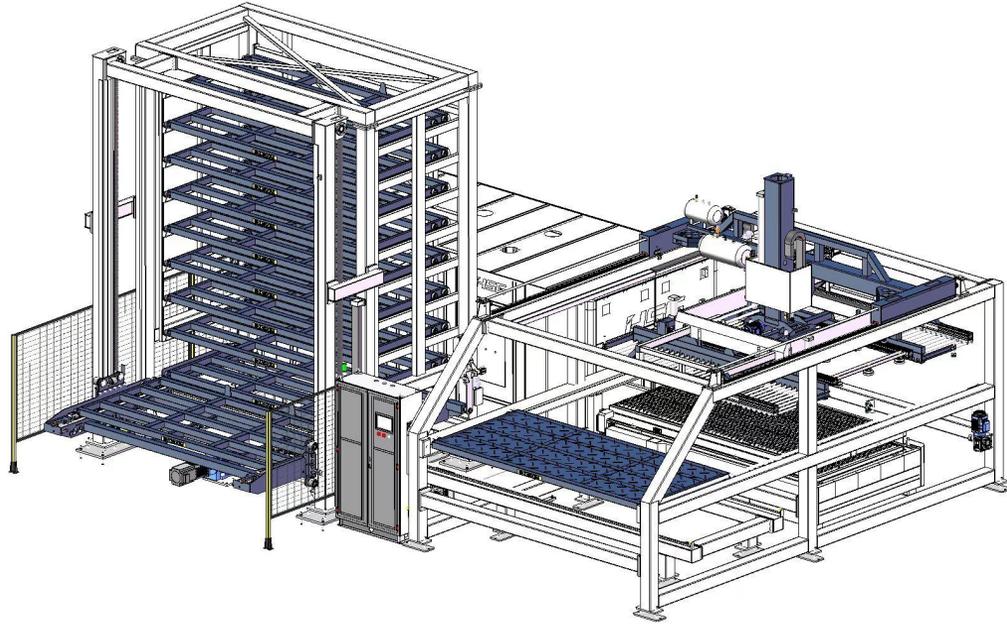
One to two, one to three series



Material warehouse one to two, one to three series



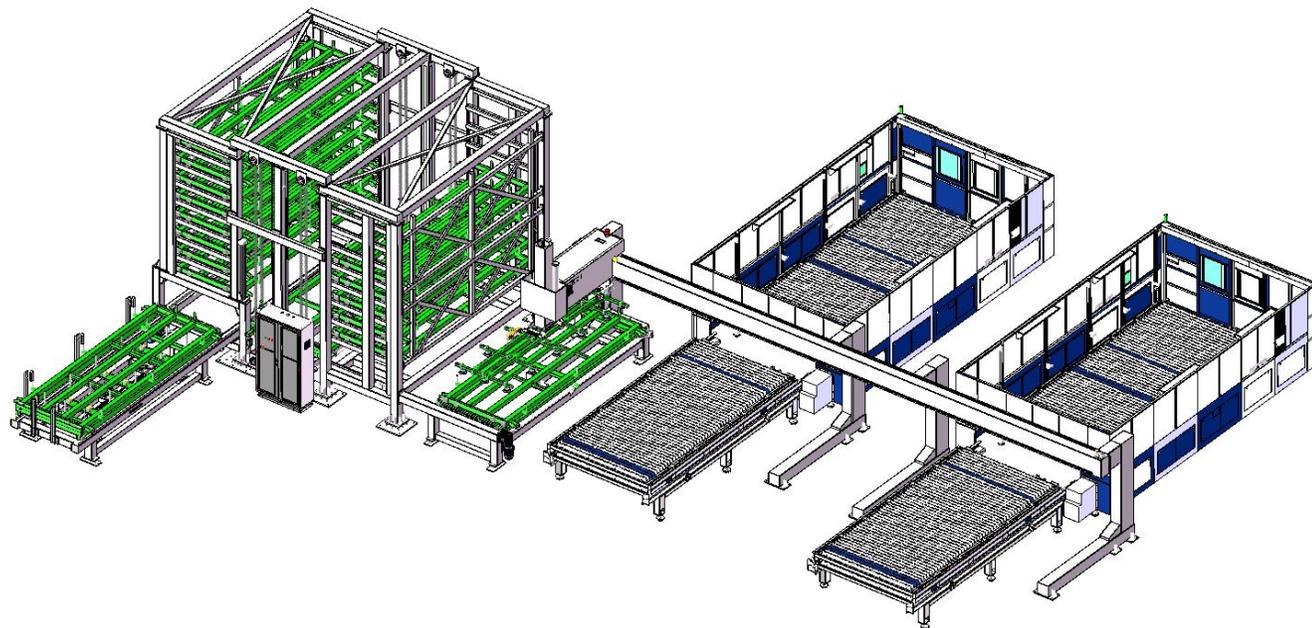
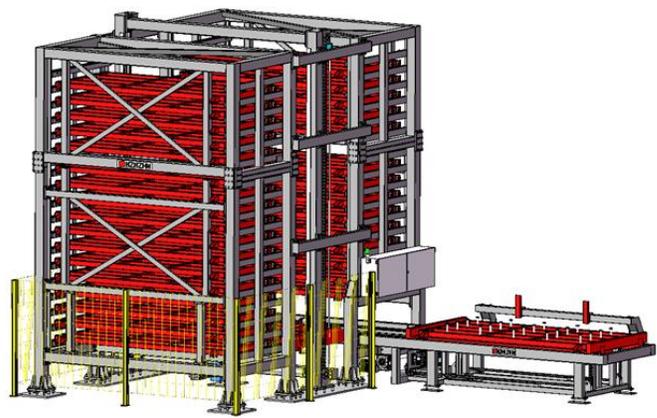
Compact material warehouse loading and unloading series



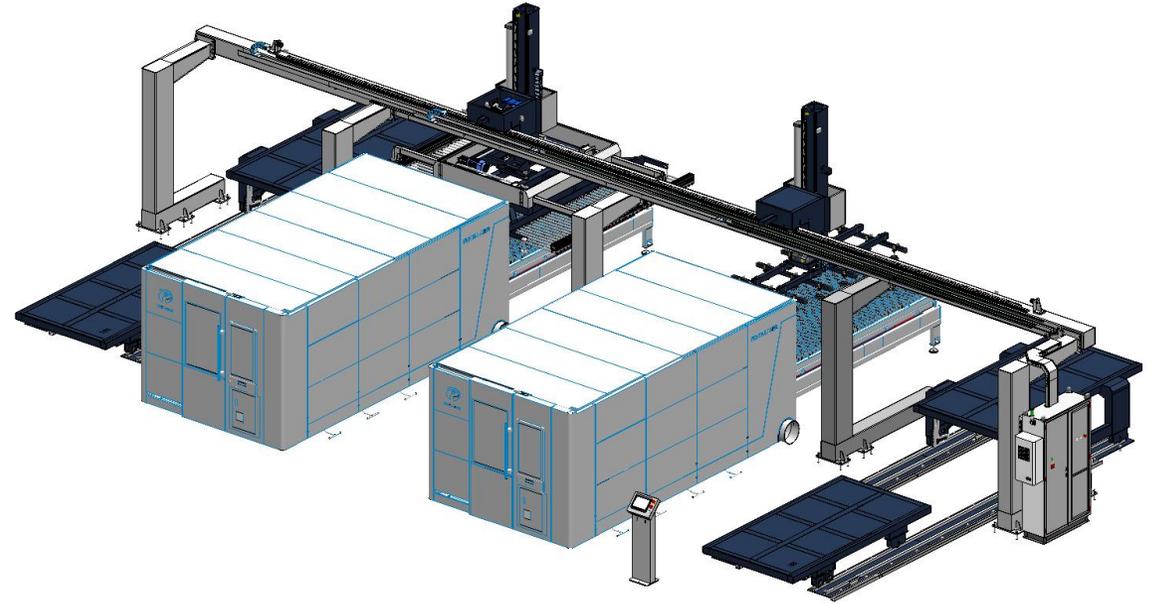
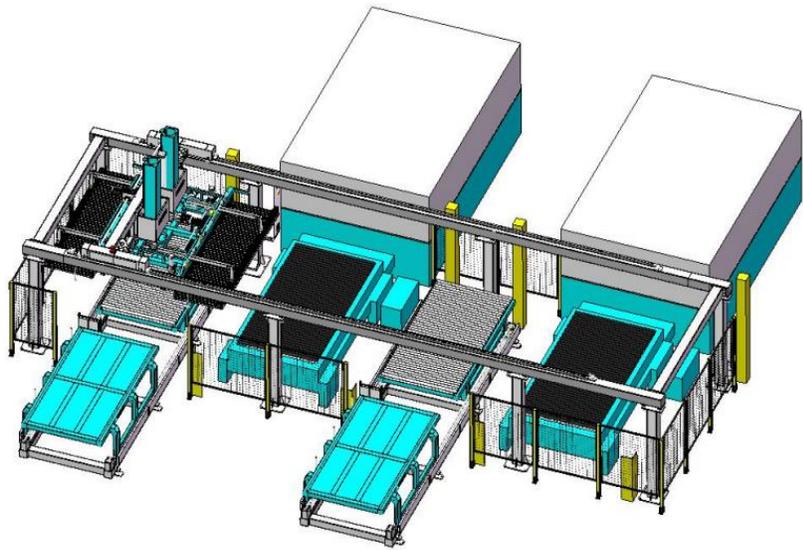
Double tower material warehouse loading and unloading series

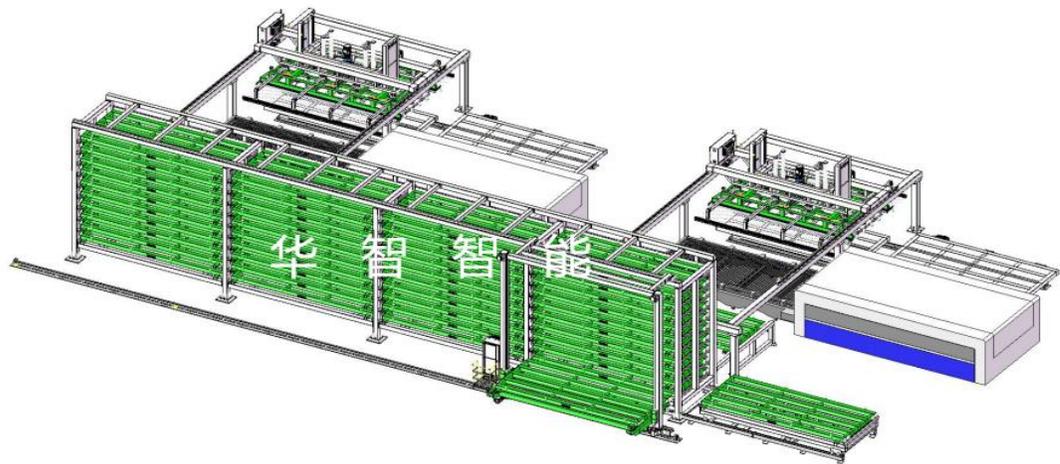
双塔立体料库

方案书

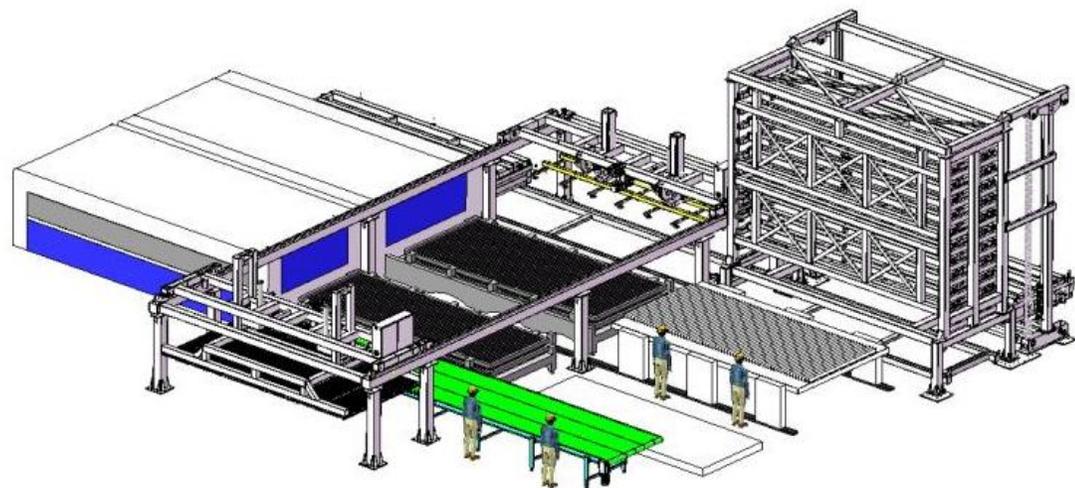
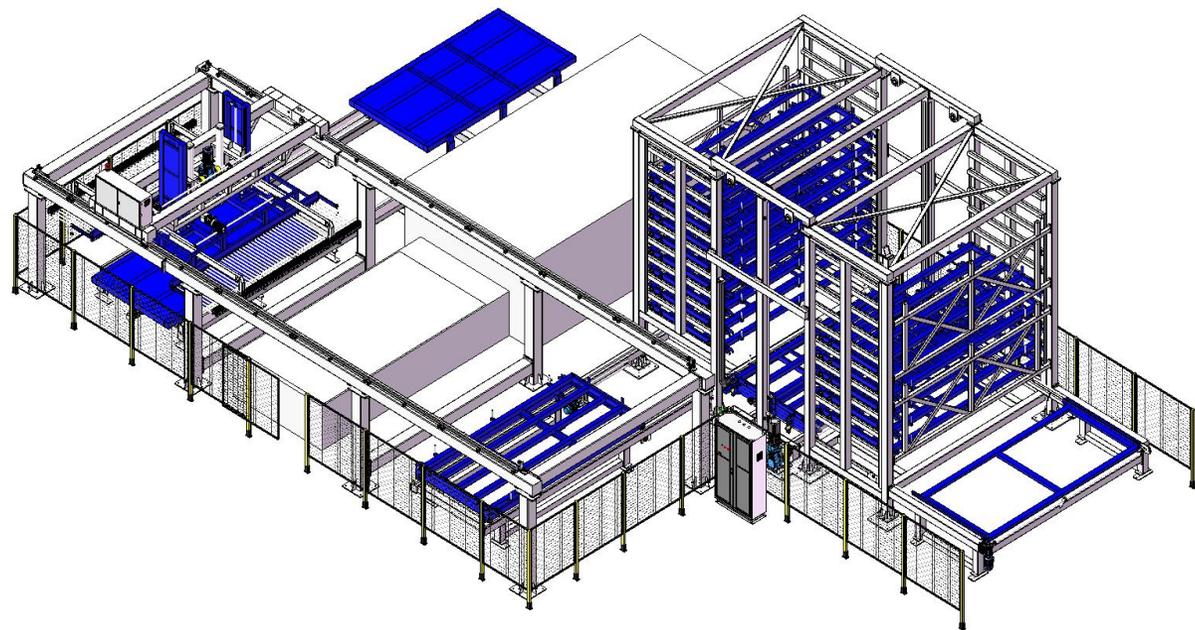


One to two loading and unloading series

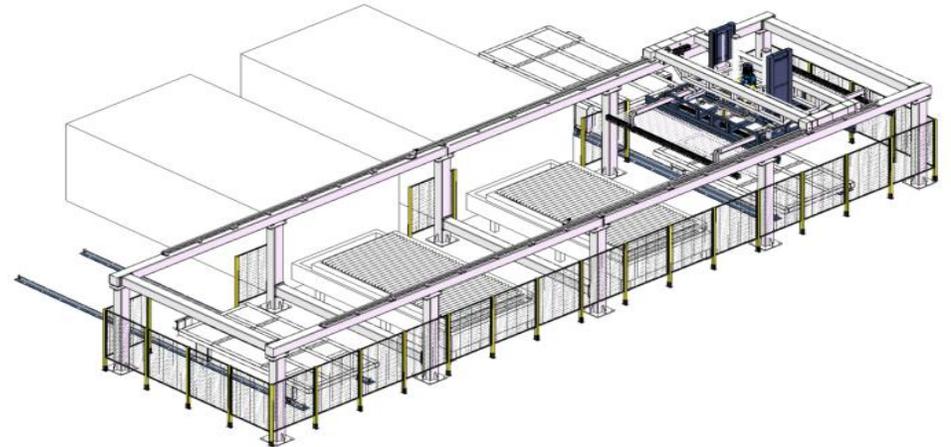
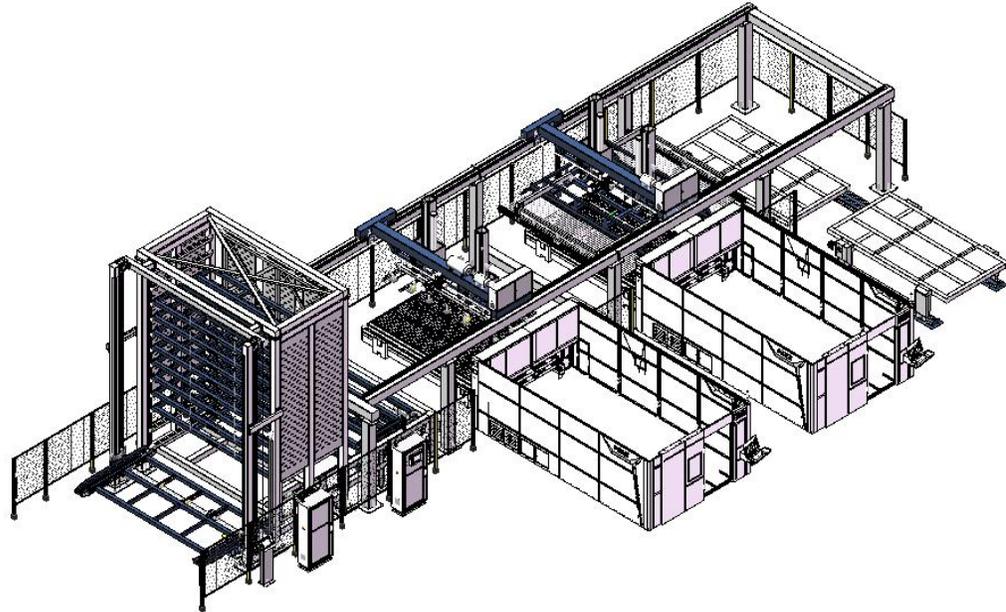
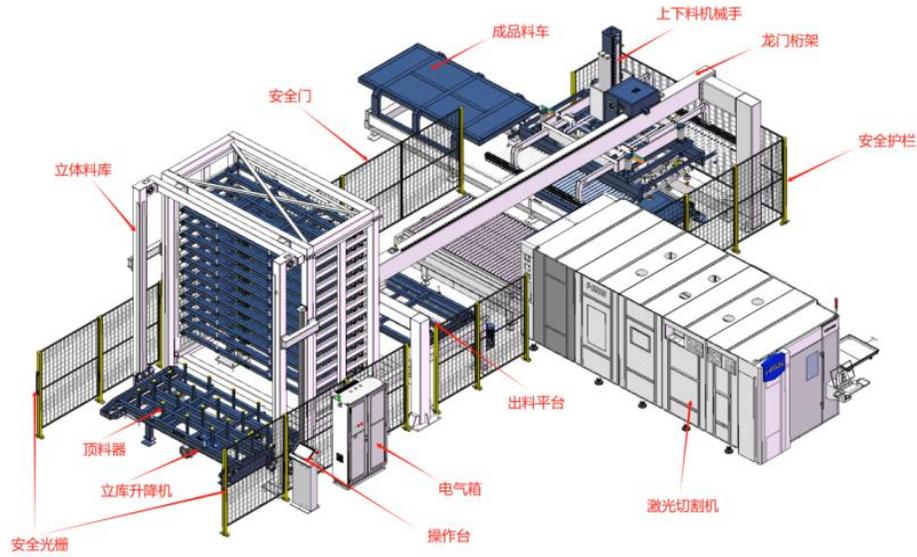




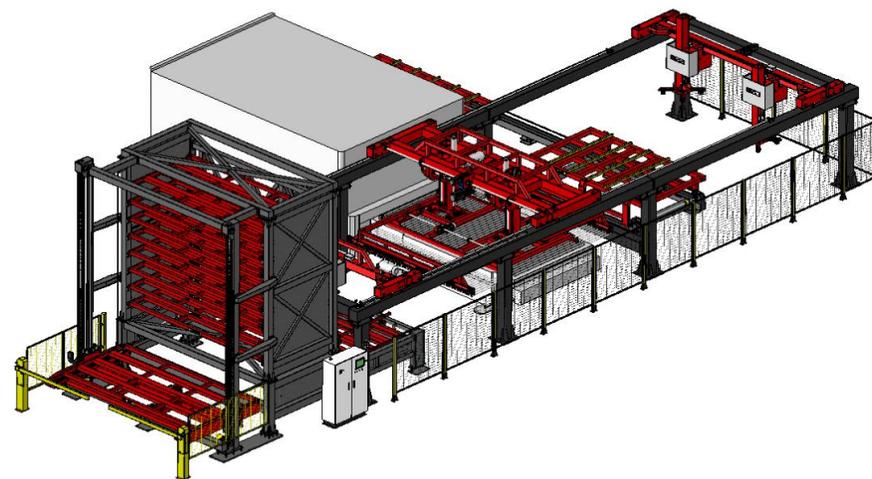
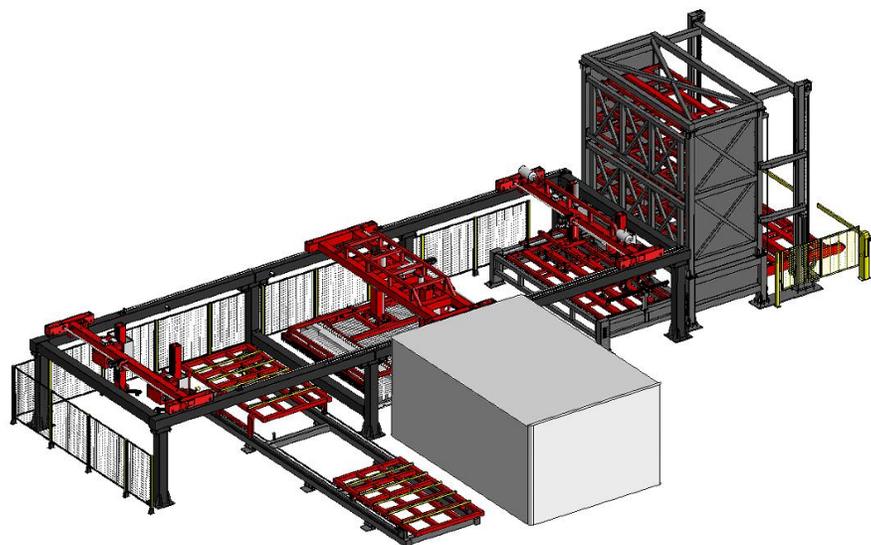
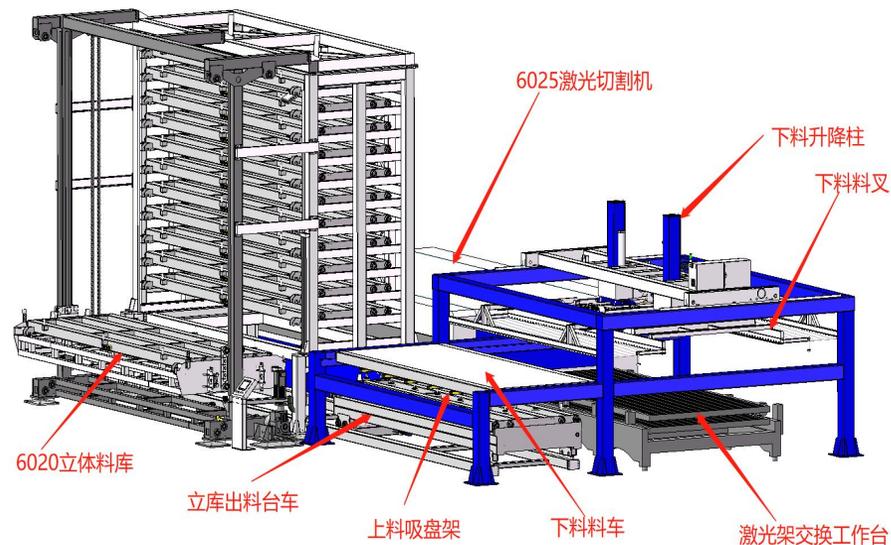
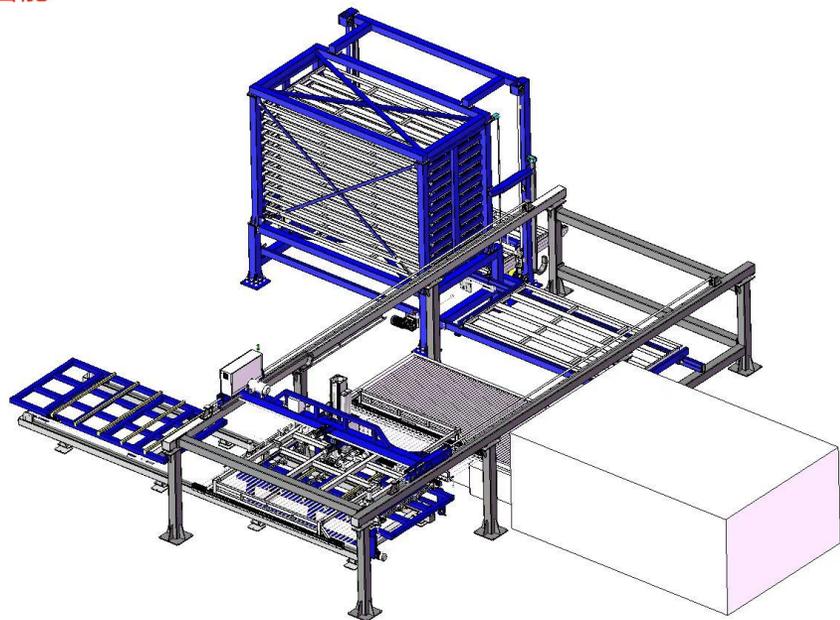
Material warehouse loading and unloading series



Material warehouse loading and unloading series

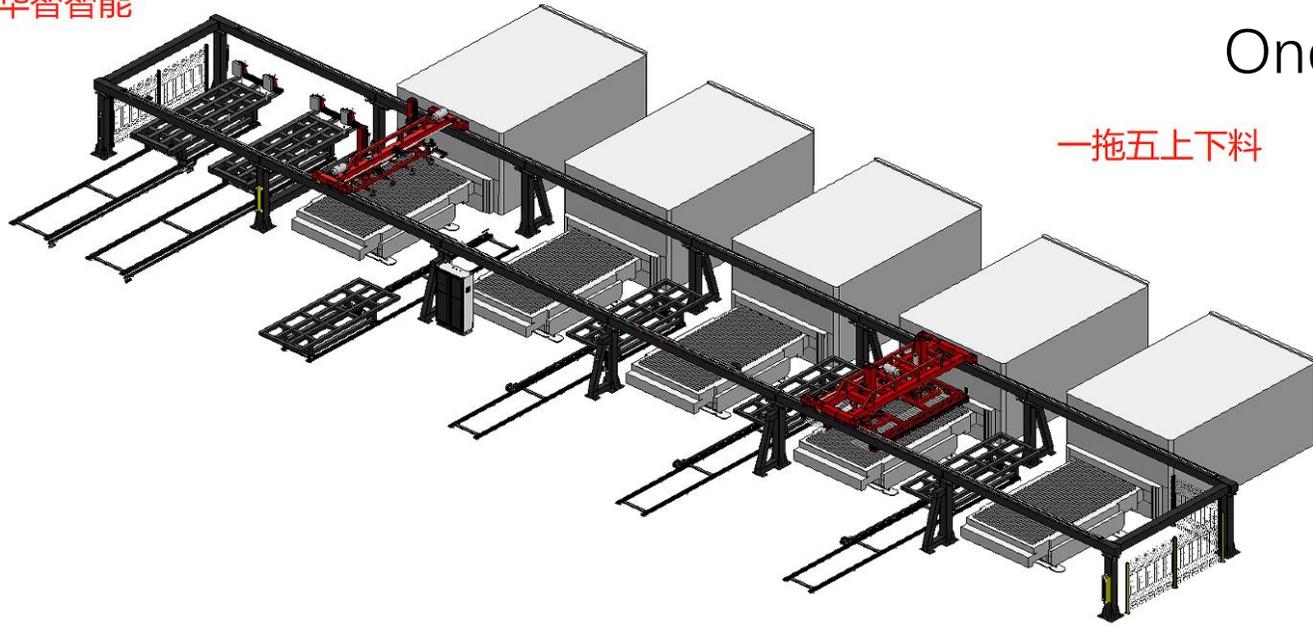


Material warehouse loading and unloading series

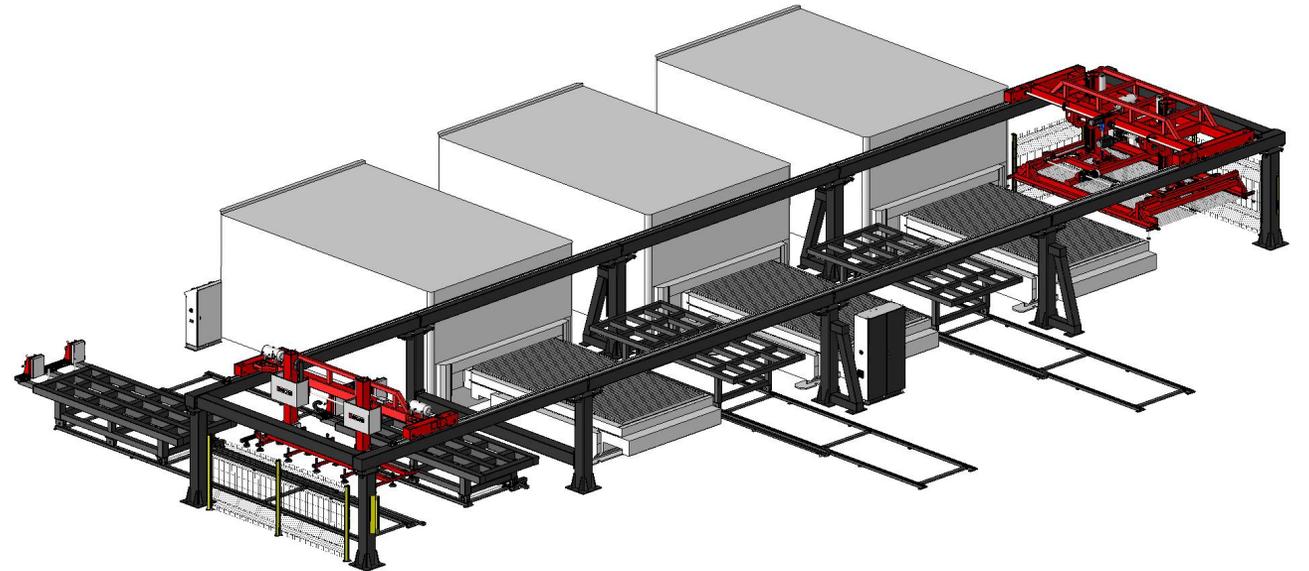


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One to three loading and unloading series

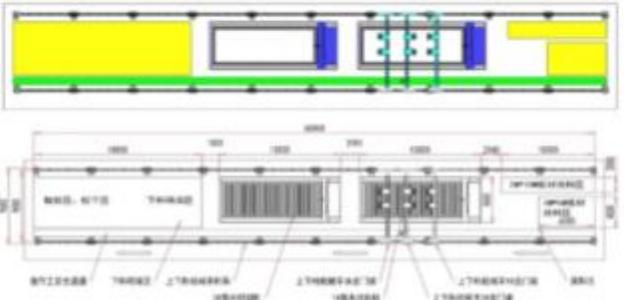


一拖五上下料



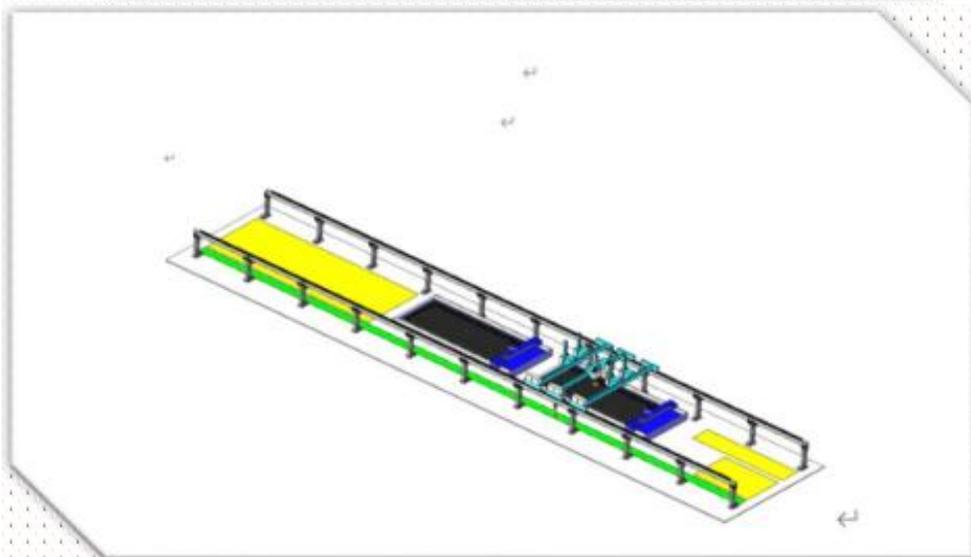
60 * 9-meter sorting for loading and unloading materials

整条设备占地长 60 米，宽 9.6 米，高 5.5 米，分为原料板材区、激光切割机加工区、下料码垛区和检验校正区。



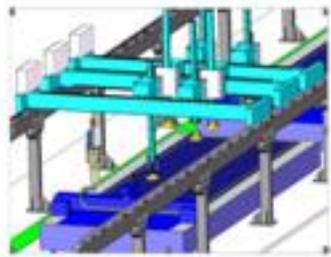
主体框架采用双龙门桁架式结构，耐久稳固。桁架内宽 9 米，外宽 9.65 米，高度 2.55 米。采用超高强度焊接，震动时效去应力处理。桁架梁与支腿立柱通过调节螺栓连接，便于调整龙门架的水平度。

2 德州宇新机械设备有限公司





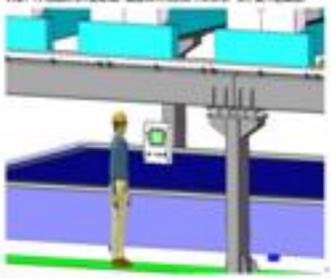
工作时，通过输送机将物料运送到指定位置，由人工进行分拣，分拣后的物料通过输送机运送到指定位置，由人工进行码垛。物料在码垛过程中，通过输送机运送到指定位置，由人工进行校正。



每秒钟可处理物料 100kg，每小时可处理 400kg 的物料。物料在码垛过程中，通过输送机运送到指定位置，由人工进行校正。



通过手持终端设备实现物料分拣和码垛，提高工作效率，降低人工成本。物料在码垛过程中，通过输送机运送到指定位置，由人工进行校正。



二、智慧仓储管理系统应用 -

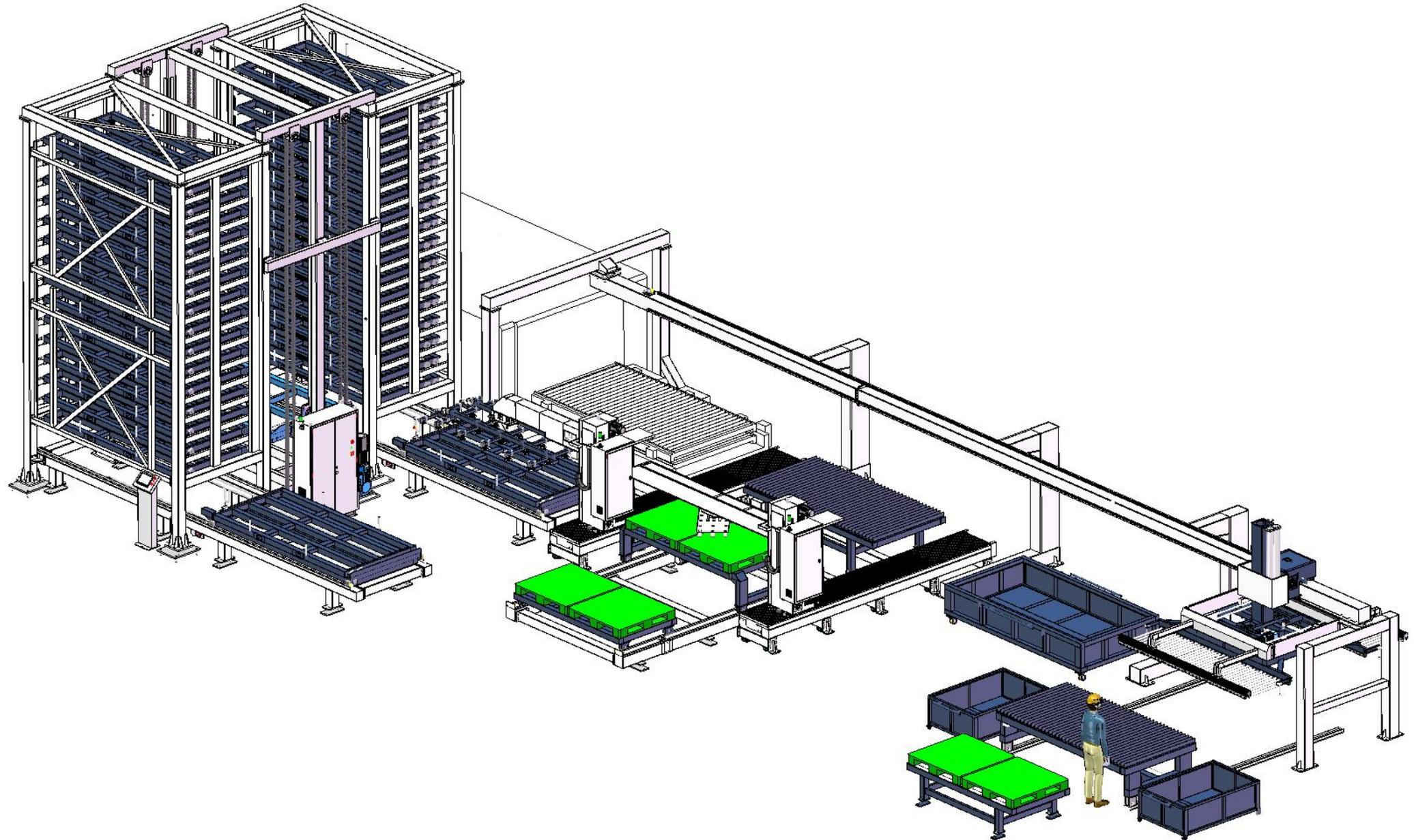
此次升级改造，智慧仓储管理系统，通过 WMS 系统，实现仓储管理。WMS 系统可以实现物料入库、出库、盘点、库存管理、报表生成等功能。通过 WMS 系统，可以实现物料入库、出库、盘点、库存管理、报表生成等功能。通过 WMS 系统，可以实现物料入库、出库、盘点、库存管理、报表生成等功能。



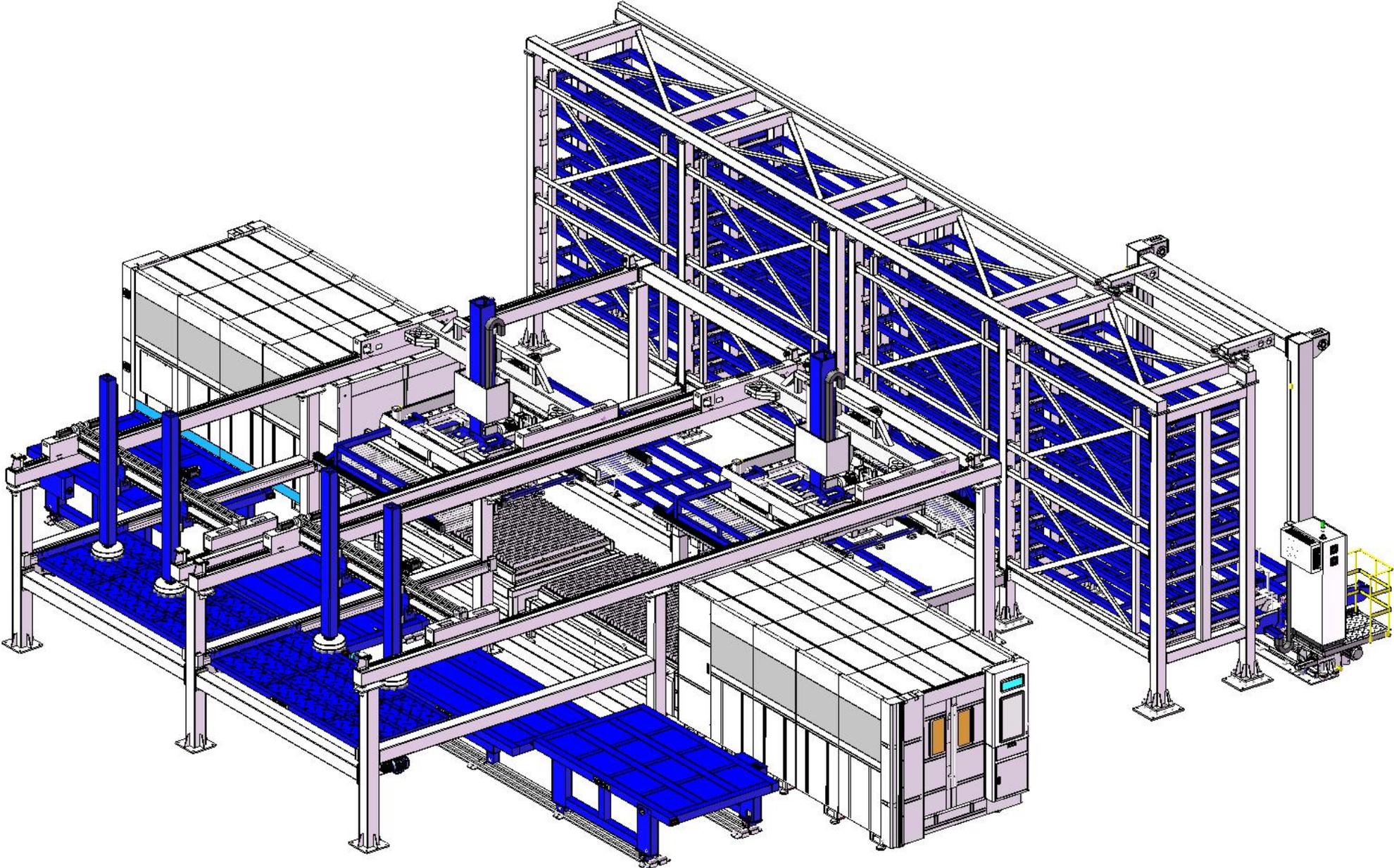
主要功能如下：

作业管理	报表管理	仓库管理	系统管理
<ul style="list-style-type: none"> • 物料入库 • 物料出库 • 库存盘点 	<ul style="list-style-type: none"> • 报表生成 • 报表查询 • 报表导出 	<ul style="list-style-type: none"> • 仓位 • 库存管理 • 库存盘点 • 库存查询 	<ul style="list-style-type: none"> • 用户管理 • 权限管理 • 系统维护 • 系统升级

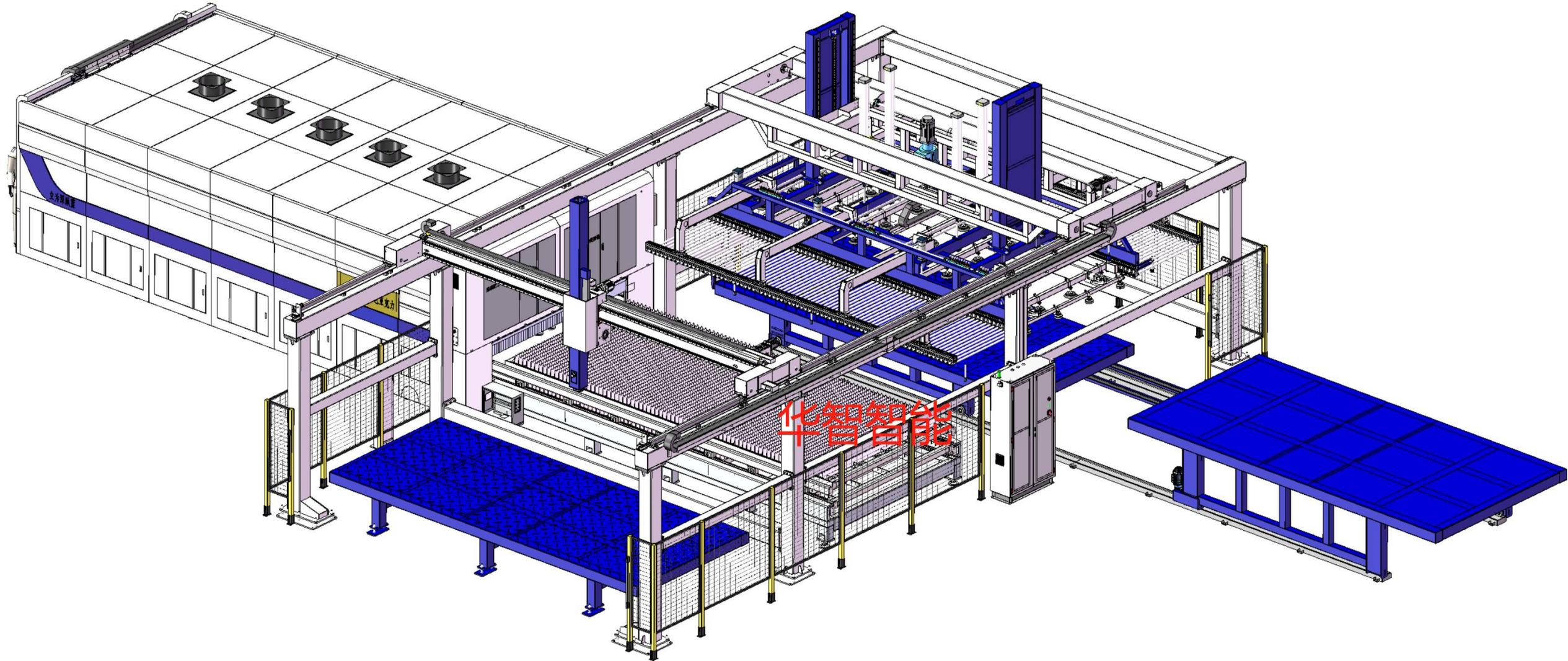
Double tower material warehouse sorting system



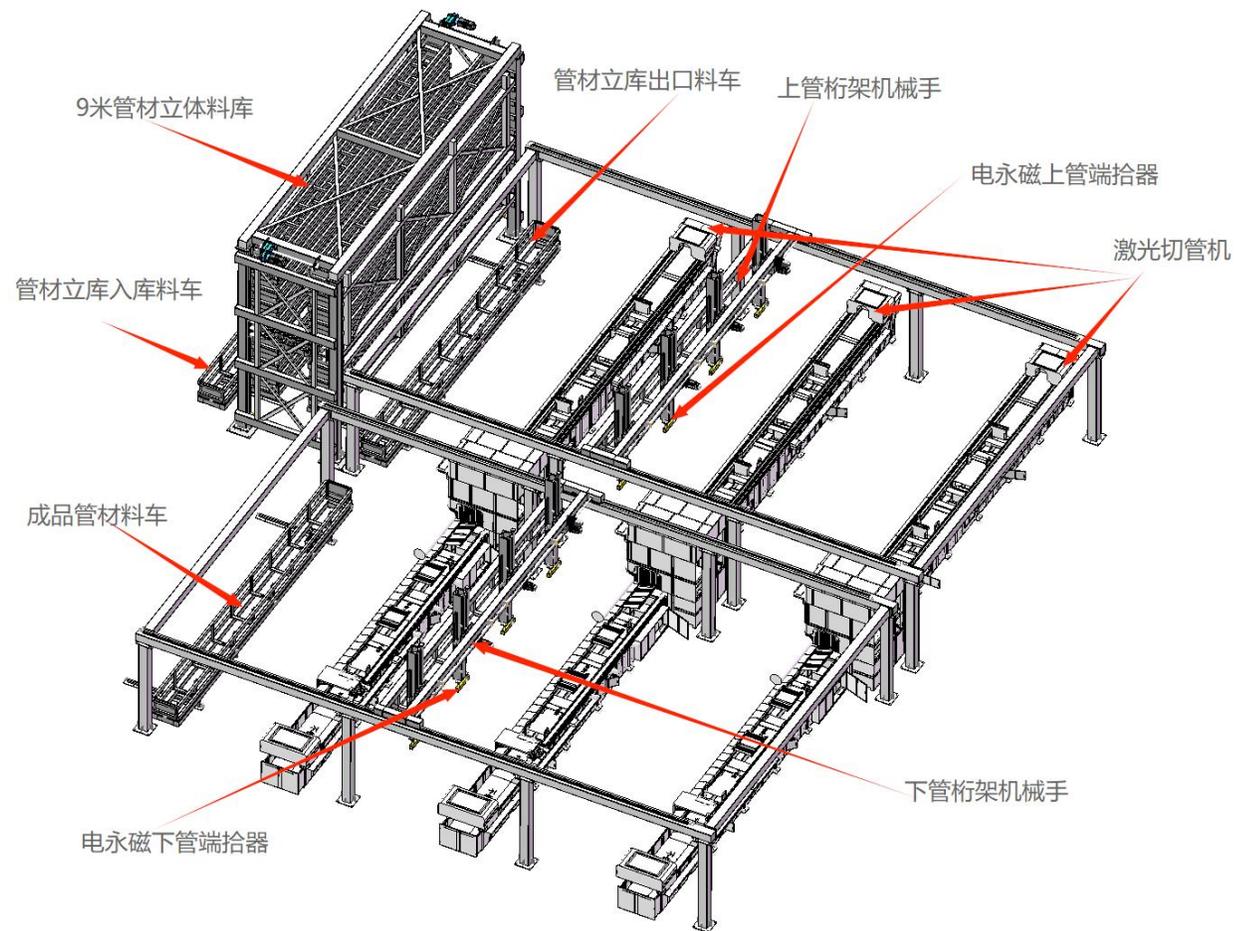
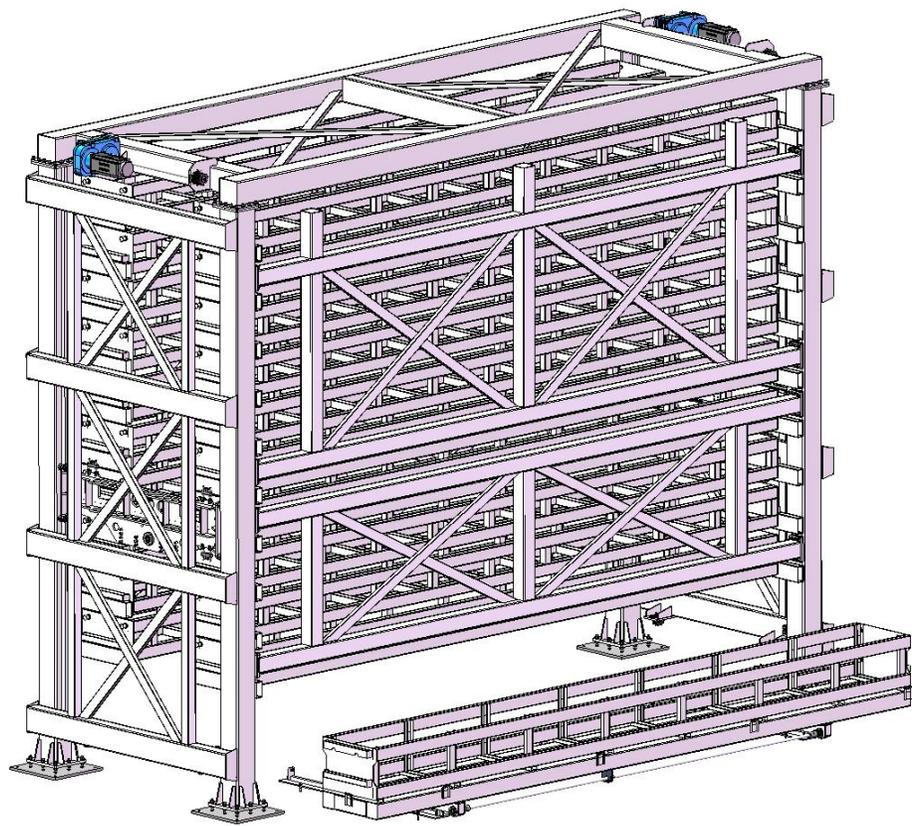
Four tower material warehouse one to two sorting system



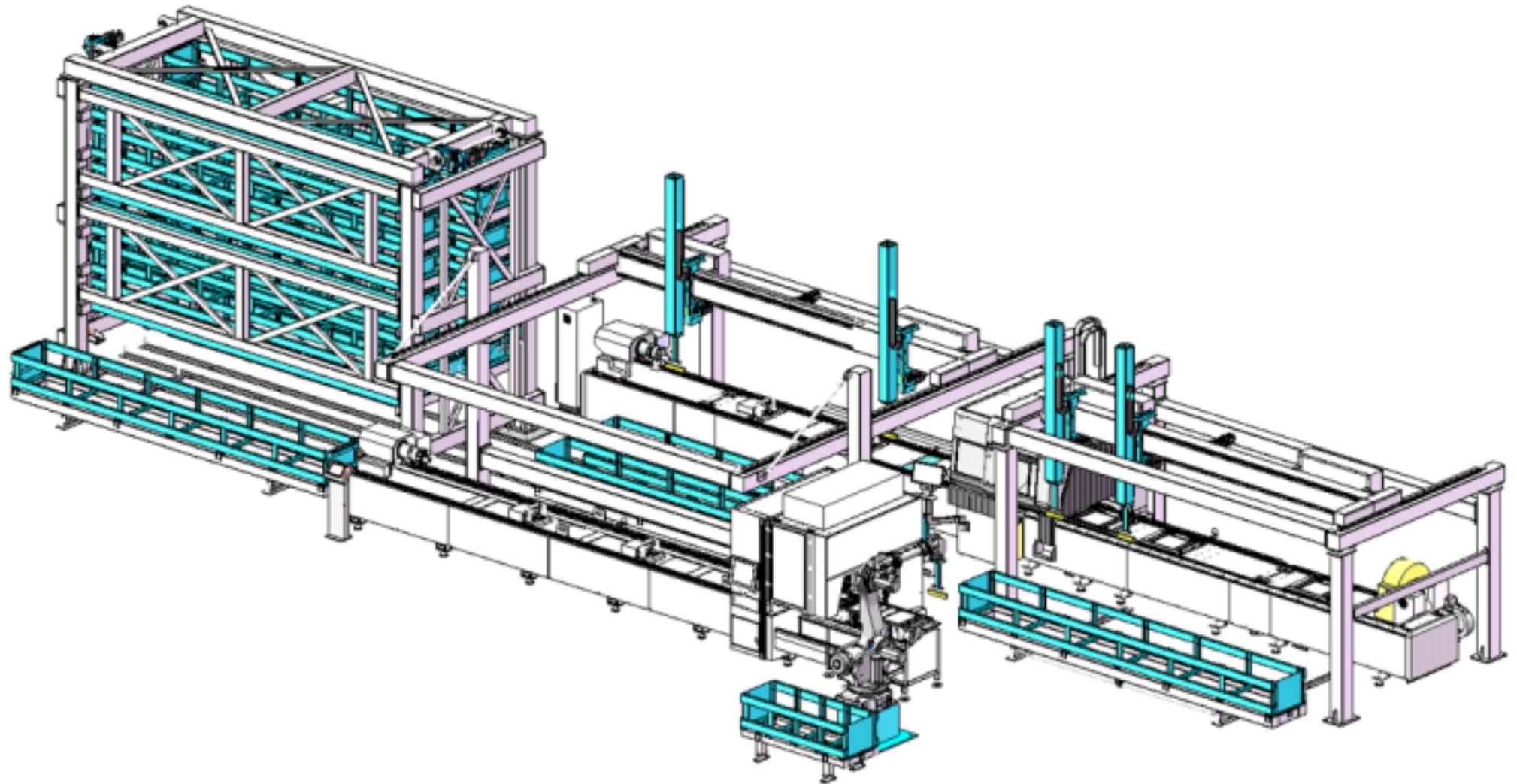
6025 loading and unloading sorting system



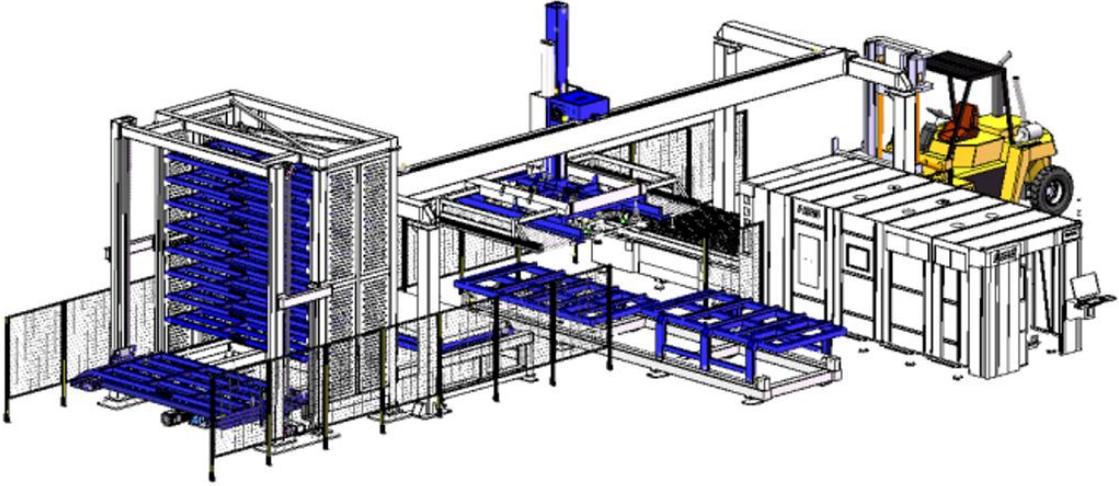
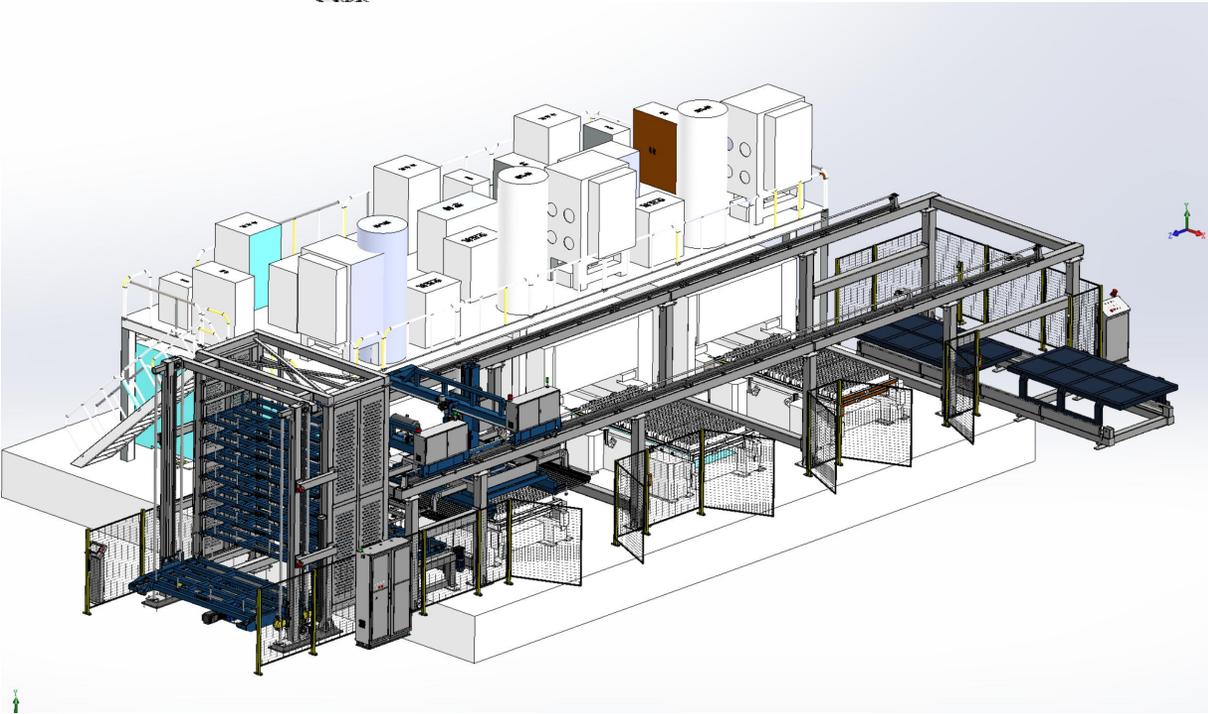
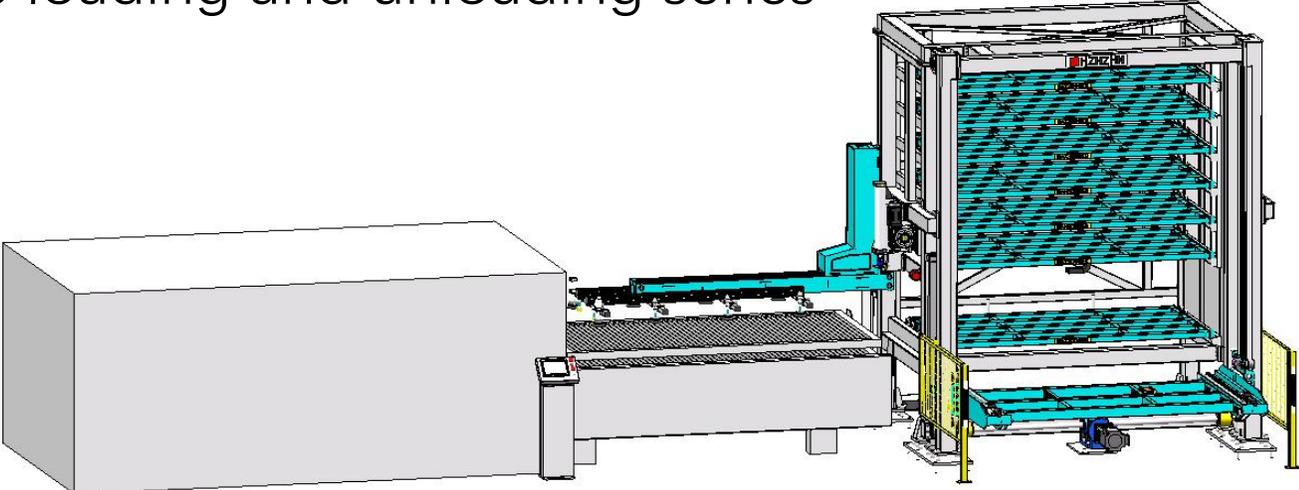
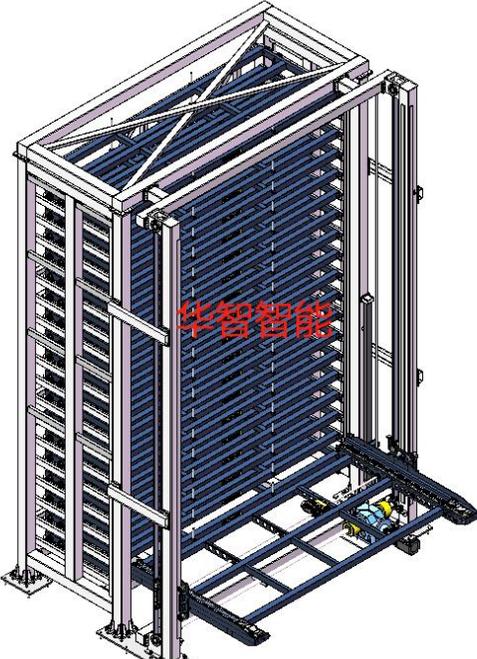
Pipe three-dimensional material warehouse series



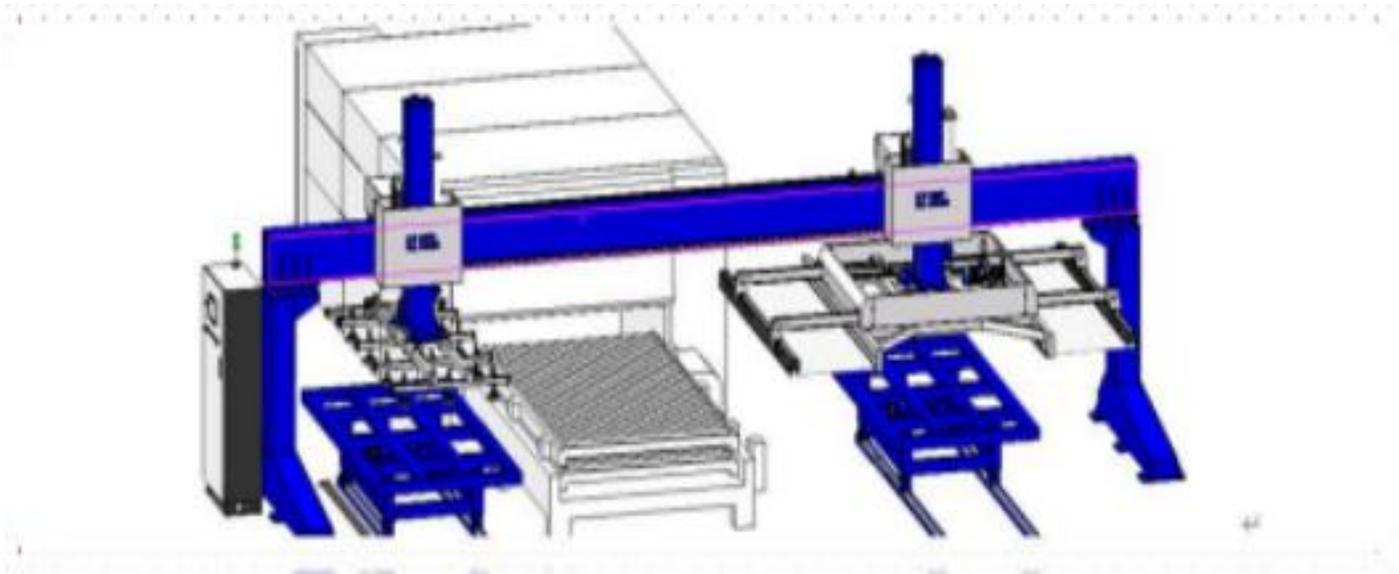
Pipe three-dimensional material warehouse+loading and unloading



Material warehouse loading and unloading series

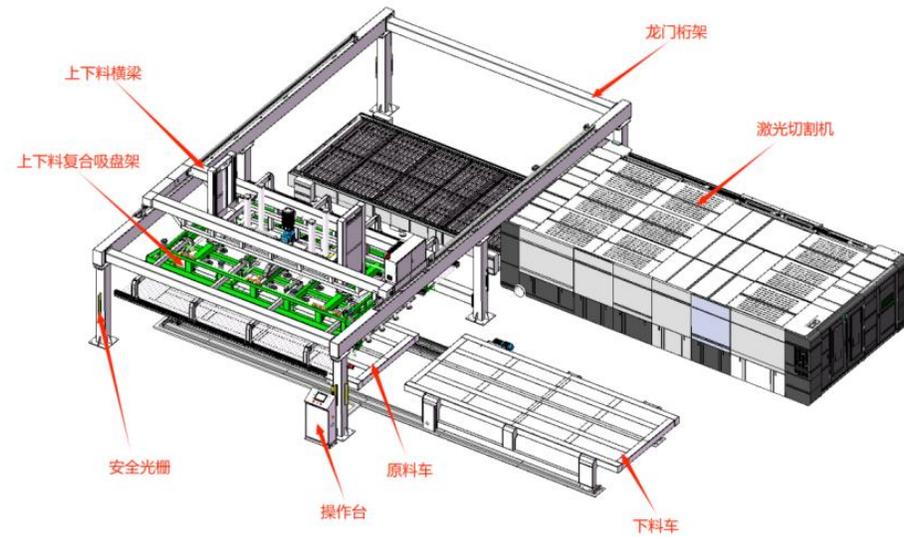
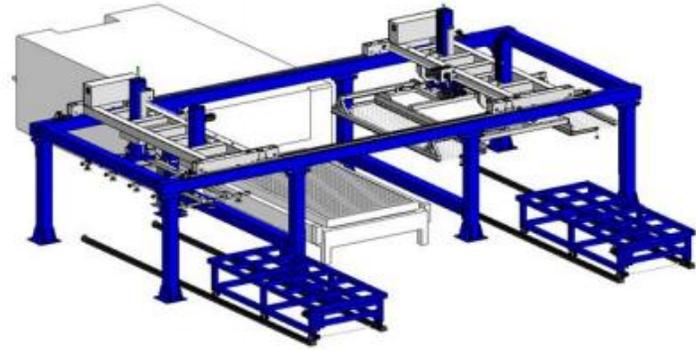
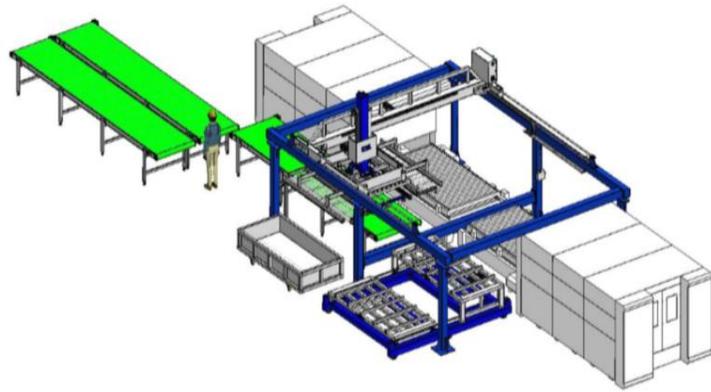


Fork tooth loading and unloading series

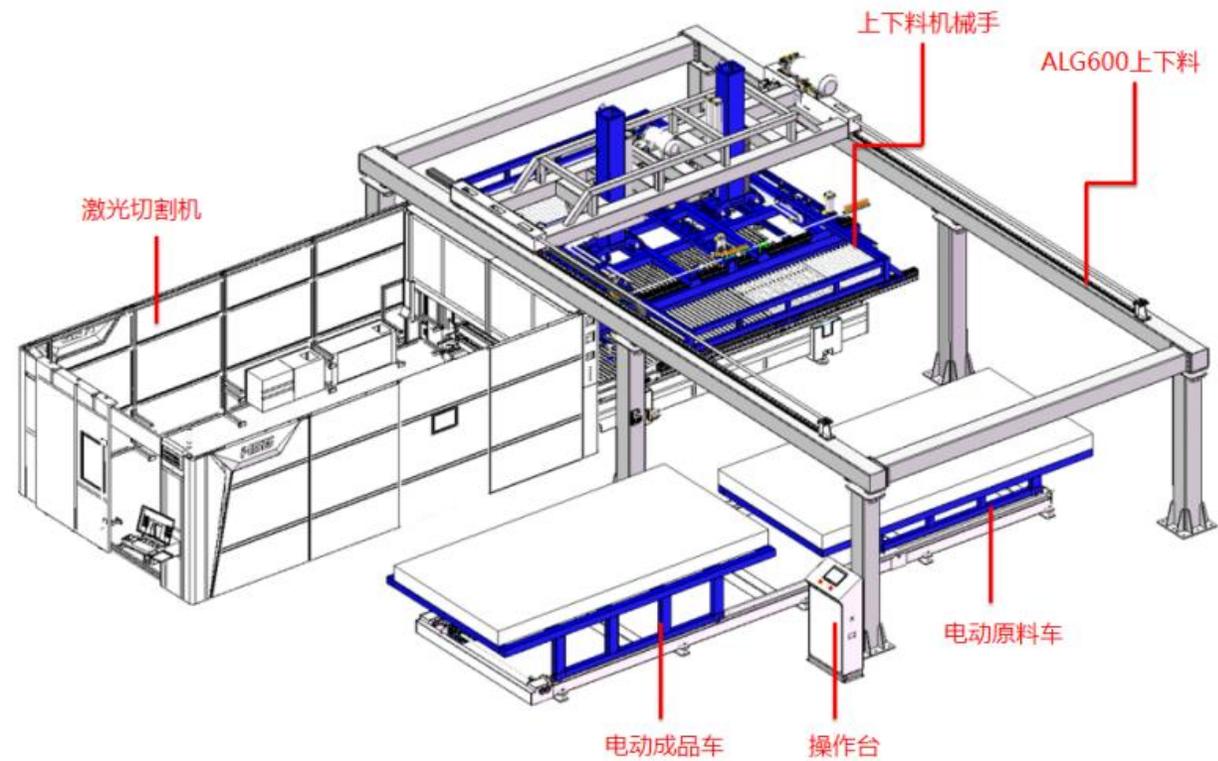
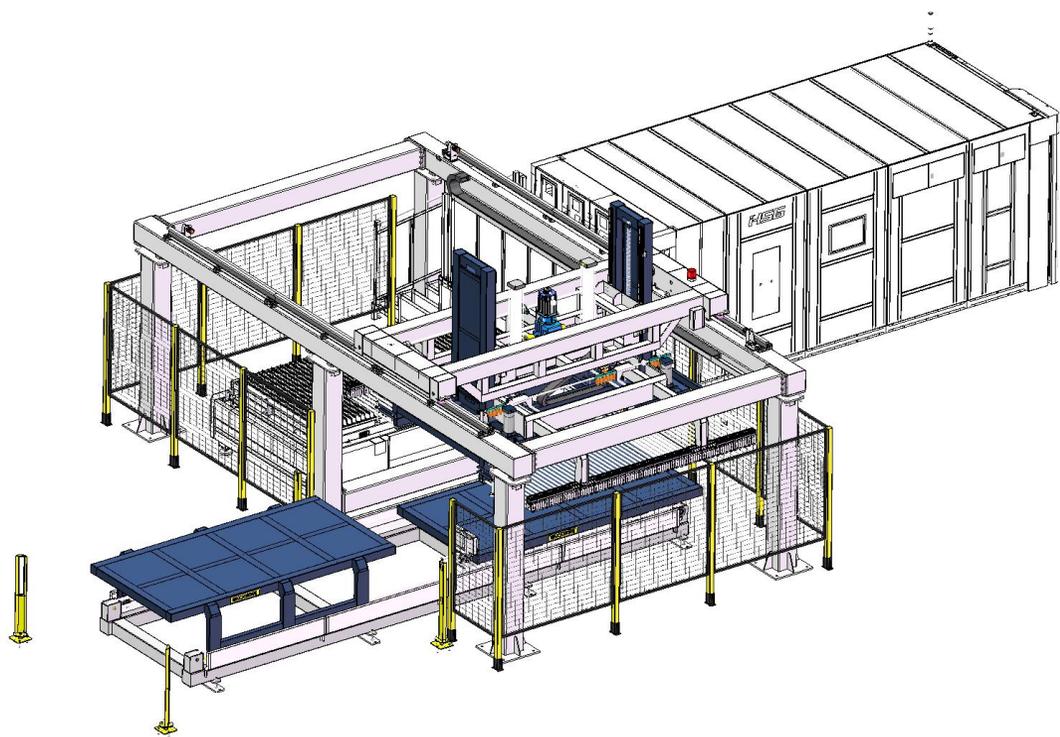


Large scale loading and unloading series

大型上下料系列



Fork teeth loading and unloading series



MES (Manufacturing Execution System), also known as the manufacturing execution system, is a production information management system designed for the execution layer of manufacturing enterprise workshops. MES provides enterprises with a comprehensive set of management modules, including manufacturing data management, production scheduling, production dispatch management, inventory management, quality management, human resource management, work center/equipment management, tooling management, procurement management, cost management, project kanban management, production process control, bottom-level data integration analysis, and top-level data integration decomposition. It enables enterprises to establish a robust, reliable, comprehensive, and practical manufacturing collaboration management platform.

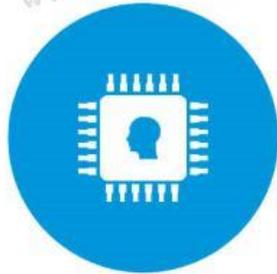
为制造型企业提供专业智能制造方案咨询、智能化新工厂规划建设、智能化改造升级、系统集成等服务

一站式智能制造解决方案平台



制造咨询
(精益思想)

+



智慧系统
(iME[®]-Suite)

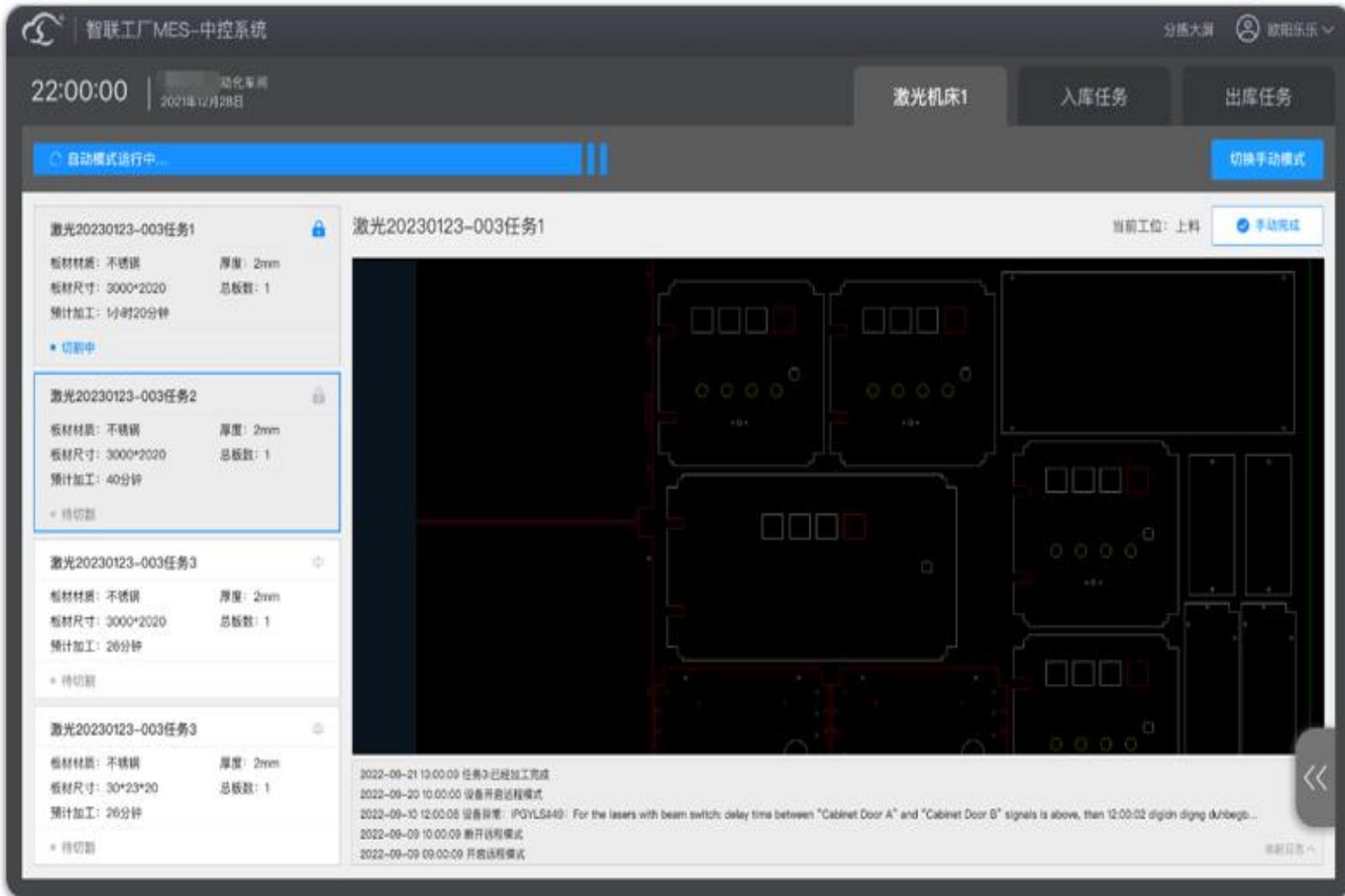
+



智能改造
(自动化改造)



Automated central control



系统支持自动与手动双模式加工

✓ 自动模式:

中控按队列自动执行叫料、上料、加工、下料、分拣动作

✓ 手动模式:

支持用户自己单独操控各个部分的设备执行动作, 方便处理插单、异常等场景



Large Multi-Rack Warehouse Practical Case Study



Actual case of multi row warehouse



Our sheet metal warehouse is highly popular among domestic companies such as Sany Heavy Industry, Xingbang Heavy Industry, CRRC, and military enterprises!

Overseas Cases



国际品质中国造，我们的领先，给您带来的不仅仅是速度！

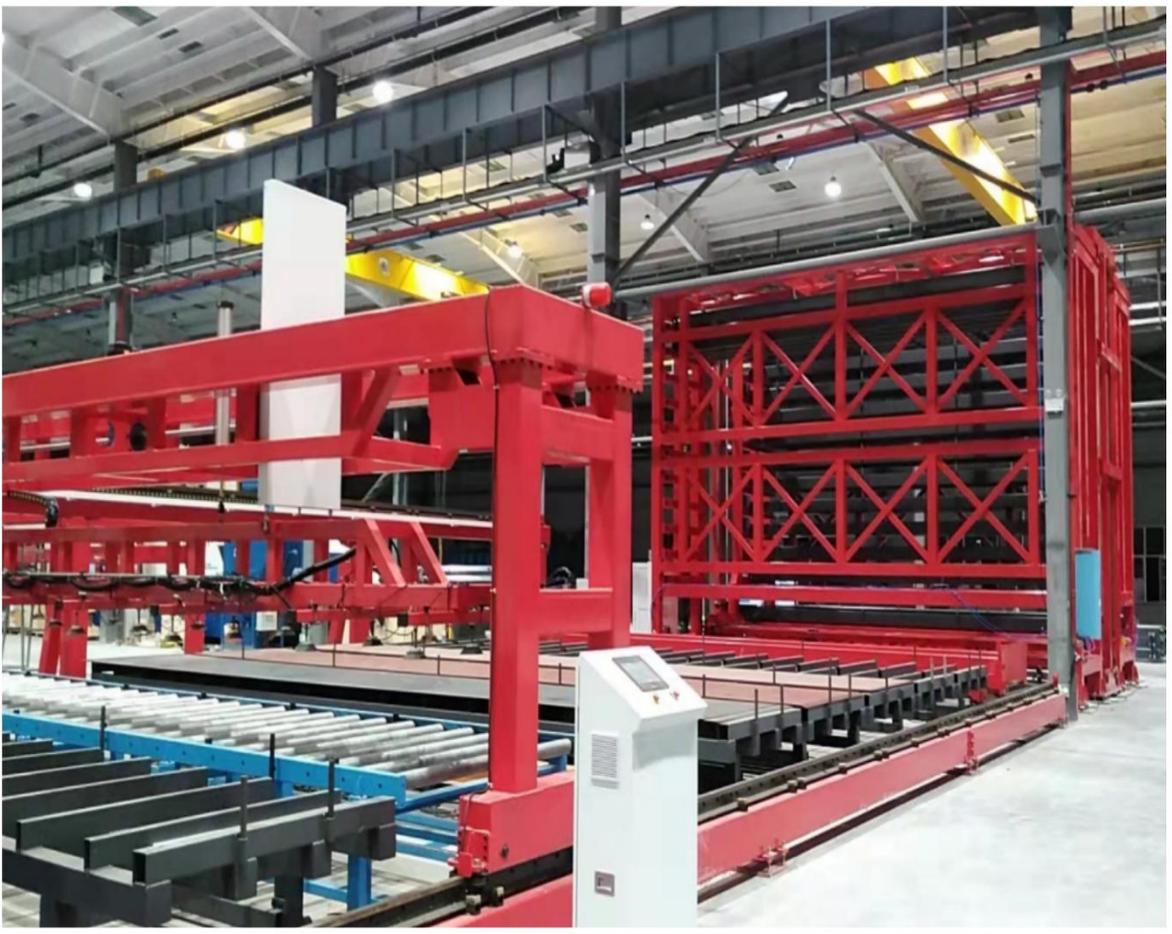




Overseas material warehouse detail case



Sany Heavy Industry Large 8025
Format Material Storage Series



Actual case of large-scale material warehouse





Actual case
of material
loading
and
unloading
in the
material
warehouse



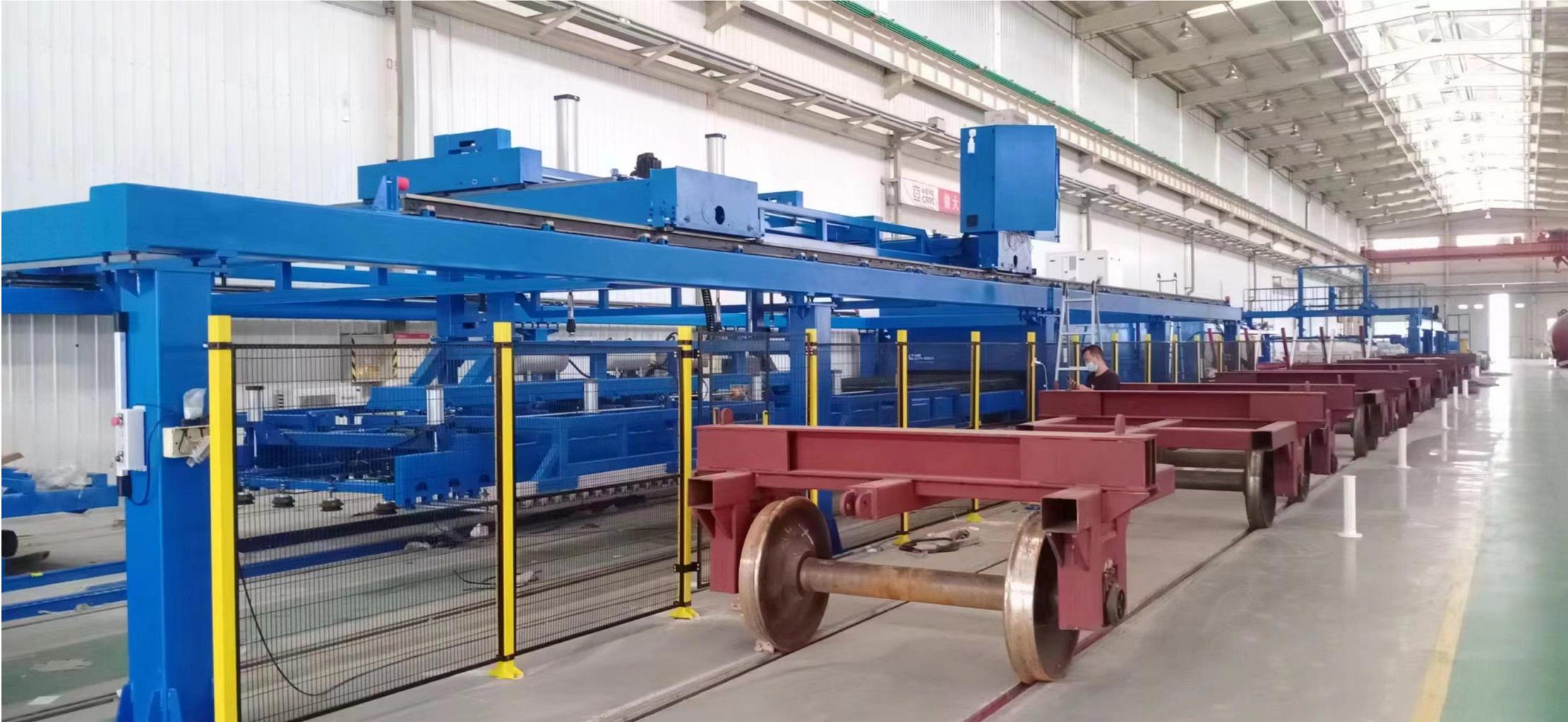
Large scale
14 meter 6-ton
loading and
unloading case
of Daming
Group



Geely Automobile Loading and Unloading



CRRC Group's 10 meter large loading and unloading system



Case Study of CRRC Group



Overseas large-scale loading and unloading sorting system



Loading and unloading of large 12 meter composite panels



Large state-owned enterprise dual tower material warehouse loading and unloading





Unilateral Longmen Actual Case





Actual case of material loading in the material warehouse



HONOR 200

Actual case of one to three loading and unloading in the material warehouse



HONOR 200



HONOR 200

Case study of material loading and unloading in the material warehouse



Actual case of loading and unloading materials



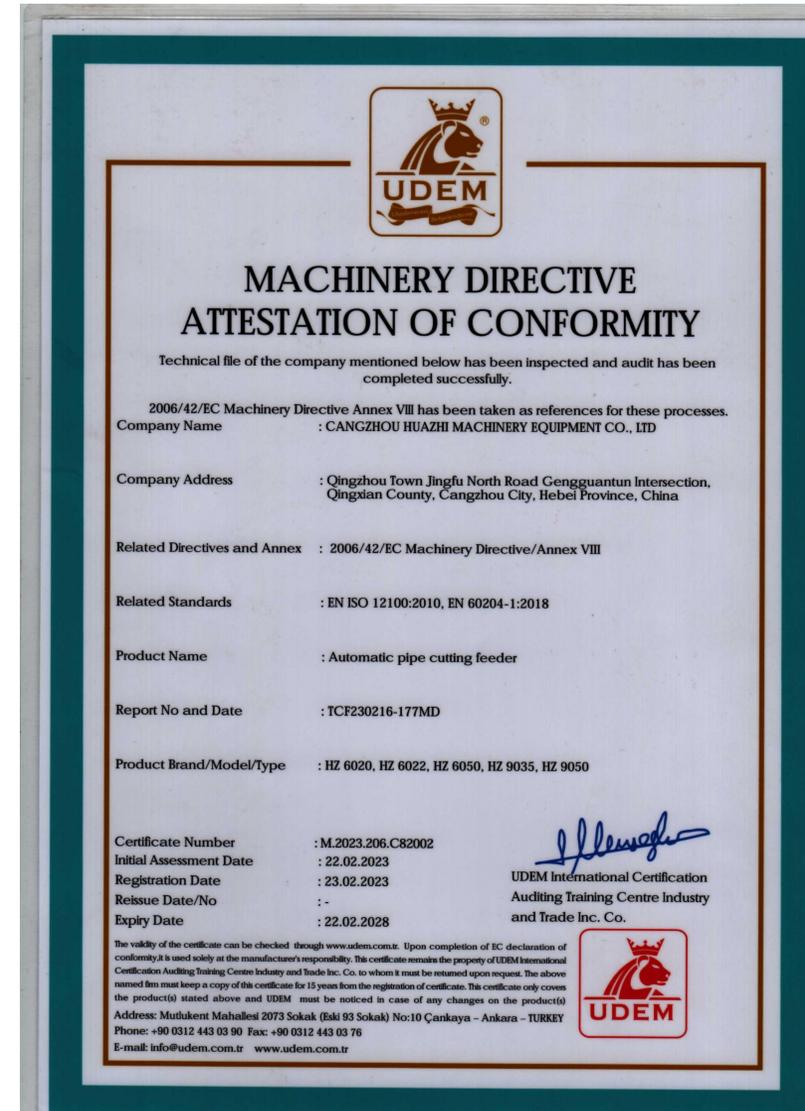
Actual case of composite board loading and unloading



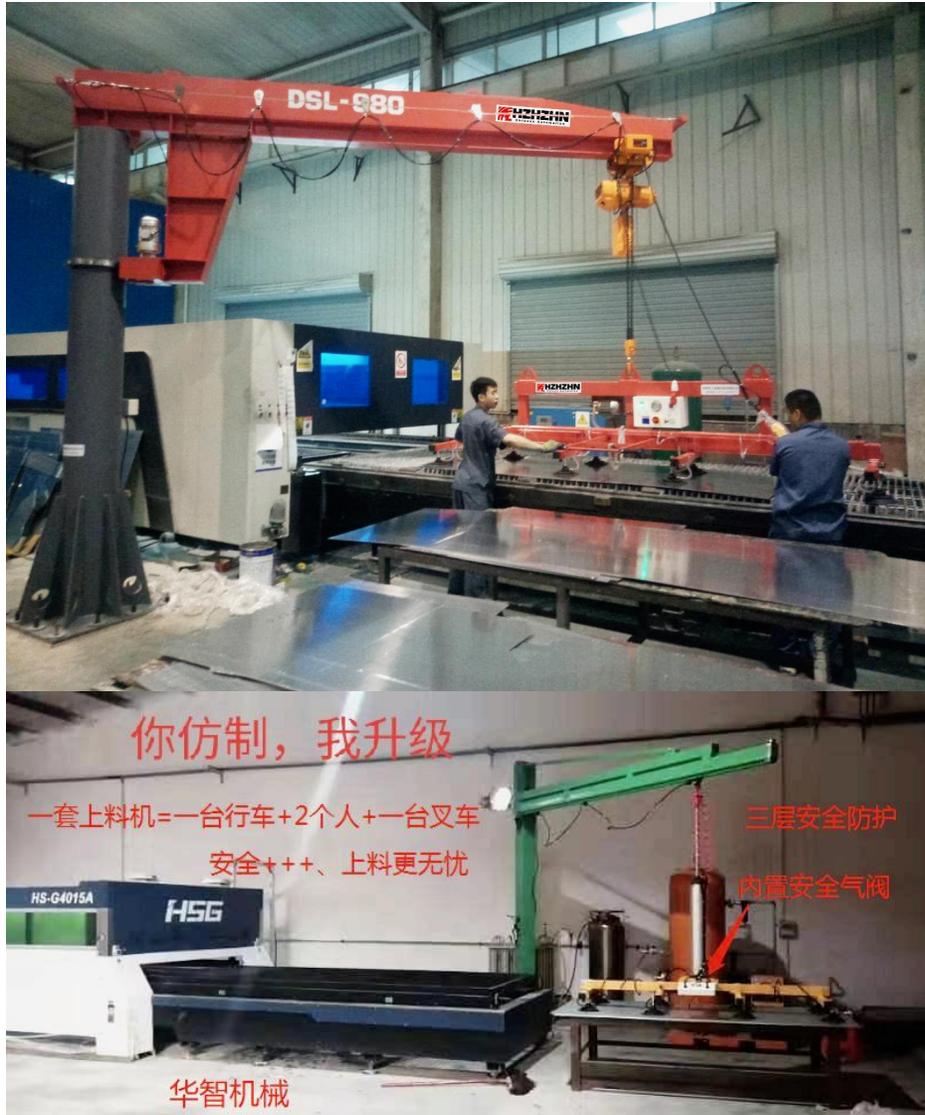
Semi automatic pipe cutting machine



Fully
automatic
pipe
cutting
and
feeding
machine



Manually assisted cantilever feeding



Actual case of material loading and unloading in the material warehouse



-The advantages that equipment brings to you-

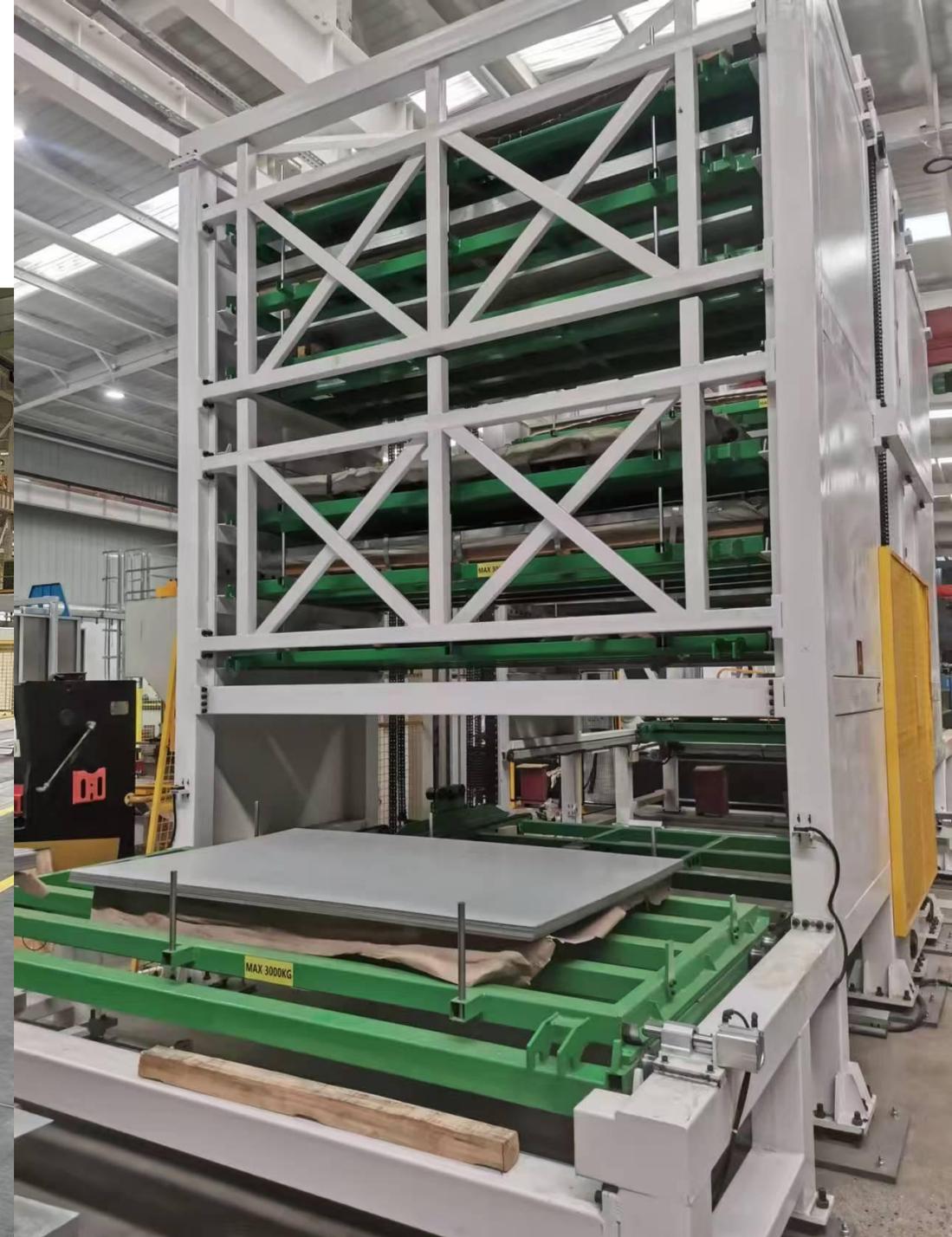
With the deepening development of industry, intelligent manufacturing has become the mainstream direction of manufacturing development. Machine tool processing is gradually showing a trend of precision, intelligence, and unmanned. The corresponding automated production system is gradually recognized and accepted by customers. The laser cutting machine is equipped with a series of self-developed automatic loading and unloading systems, which are fully automatic production systems suitable for elevator manufacturing, furniture and home appliances, and photovoltaic equipment. Various fields such as construction machinery. Our company adopts a series gantry structure for fully automatic loading and unloading, which meets the installation requirements of customers in small spaces. For different sites, we provide customers with professional and reasonable layout solutions. The feeding adopts high load vacuum suction cups, which can meet the feeding of different materials such as steel plates, aluminum plates, stainless steel, etc. At the same time, it is equipped with functions such as material splitting, thickness detection, and shaking, and multiple measures are taken to prevent excessive suction of raw materials; The cutting adopts a gripping and inserting claw structure. For special occasions where scratches are required on the surface of the board, an anti slip mechanism can be equipped to effectively reduce scratches on the board during cutting; The automatic material truck adopts a high and low platform form, saving space and complementing the independent operation of loading and unloading. The equipment can integrate a laser central control system, automatically issue tasks, and produce automatically.



Unique creativity, striving for excellence



Unique creativity, striving for excellence



Classic
local
details



OPPO Find X8s

HASSELBLAD

● 24mm f/1.8 1/105s ISO500



OPPO Find X8s

HASSELBLAD

● 24mm f/1.8 1/267s ISO320

To do good in one's work, We must first sharpen our tools



HuaZhi Intelligence

Advantages of Investing in Equipment	Disadvantages of Not Investing
1. Automated equipment can reduce labor and lower product costs.	1. Waste of significant manpower, greatly increasing labor costs.
2. Can increase production capacity.	2. Safety risks greatly increase; workplace injuries are unavoidable, leading to substantial compensation.
3. Reliable automated products are easier to manage than humans.	3. Production efficiency is slow and low.
4. Effectively improve product quality; using automated equipment enhances product consistency.	4. Personnel management costs increase significantly.
5. Safety is greatly improved, avoiding potential hazards.	5. Workshop and warehouse management becomes chaotic, causing waste and discrepancies in records.
6. Enhance the company's overall image and competitiveness.	6. Poor company image and low competitiveness.
Based on statistics from previous customer installations, the average annual direct cost savings are 550,000 yuan, production efficiency increases by 30%, and corporate image value improves by 80%.	

unique advantage



华智智能

自动化料库、上下料的优势

一、料库精度优势

- 1、料车升降采用大扭矩伺服电机驱动，定位精度更好。
- 2、自动升降机配备二次校准系统，双边重型起重链条，能保障升降、进出料长期运行的精准性。

二、速度优势

- 1、料车升降采用大扭矩伺服电机驱动，运行速度更快。
- 2、自动升降机的升降和出入料均为大惯量伺服电机+双边起重链条同步驱动，升降速度更快。（高出同行业的30%）
- 3、上下料机械手采用整体双边龙门式框架结构，上下两层运行模式，可交叉运动，公用双边龙门框架，上下料机械手可同时交替运行，节约上下料时间，工作效率高。（上下料运行周期不超过一分钟）

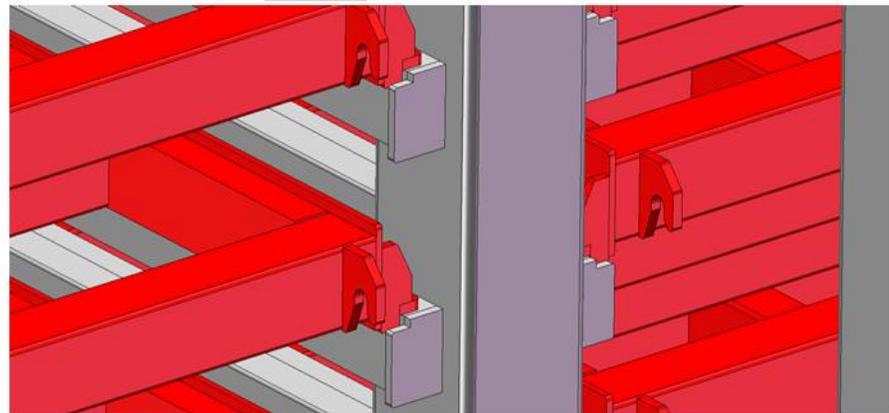
三、安全优势

- 1、立体料库每层均设有安全锁扣，防止料车意外滑出，有效避免安全事故。
- 2、料车升降配套能耗制动和电磁抱闸双重安全保护。
- 3、料车出料台安装独立的板材测厚装置每次为激光机上板时，先使用吸盘架上的气动分板器进行板材分张，再经过板材测厚校准，确保每次上板材均为单张，避免事故的发生。

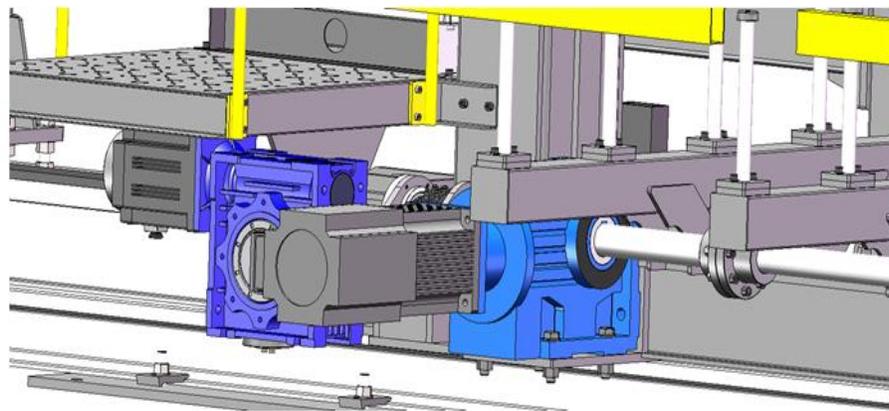
我们的领先，

给您带来的不仅仅是速度！

立体料库每层均由安全锁扣，防止料车意外滑出。有效避免安全事故。



料车升降采用大扭矩伺服电机驱动，运行速度快，定位精度高。并配套能耗制动和电磁抱闸双重安全保护。



自动升降机的升降和出入料均为大惯量伺服电机+双边起重链条同步驱动，升降速度快（比同行业高出30%），并配备二次校准系统，保障升降进料精准。

industry comparison

Speed Data Comparison					
HZHZHN					
No.	Item	Speed/ min	Item	Speed/ min	Speed Increase Rate
1	Loading/Unloading Horizontal Translation Speed	80	Loading/Unloading Horizontal Translation Speed	60	33.30%
2	Loading/Unloading Lifting Speed	13	Loading/Unloading Lifting Speed	6	117%
3	In/Out Material Cart Speed	13	In/Out Material Cart Speed	10	30%
4	Material Rack Lifting Speed	12	Material Rack Lifting Speed	10	100%
5	In/Out Material Speed	20	In/Out Material Speed	15	33%

Service delivery value



Thank you for watching, looking forward to working with you!



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Our leadership,
It's not just speed that brings you!

Cangzhou Huazhi Machinery Equipment Co., Ltd.
Non standard Business Unit

Chen Zhaolei - Consulting Engineer

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