



 **Nitrans**

Vitrans Automation Equipment Co., Ltd / Company Profile



Area

25000m²



Employees

190+



Projects

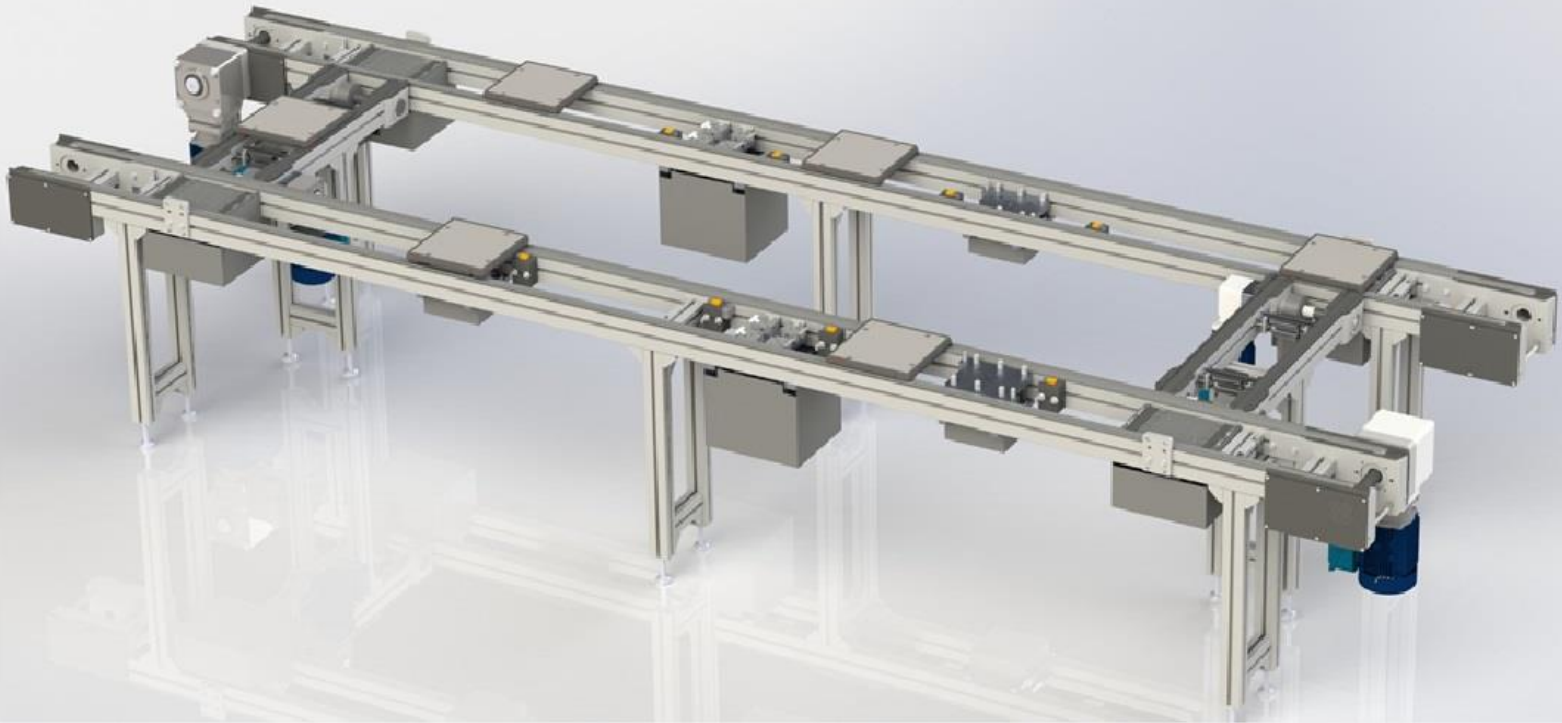
500+



Vitrans Automation
Wuxi Branch

Dongguan Vitrans
Automation





Pallet Conveyor System

A Toothed Belt Conveyor



B Flat Belt Conveyor



C Roller Chain Conveyor



D Plastic Roller Chain Conveyor



E Flat top Chain Curve Unit



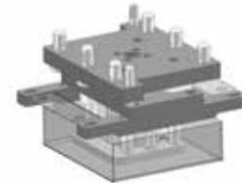
F Servo Lifer



G Cylinder Lifer



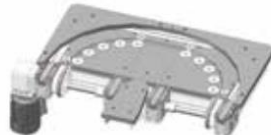
H Positioning Unit



I Lift Transverse Unit



J Round Belt Curve Unit



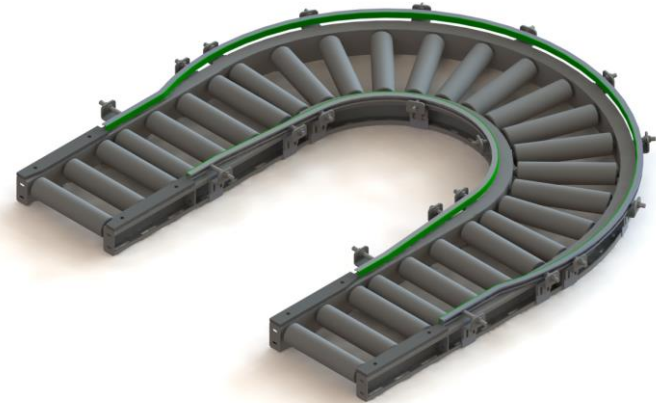
K Rotate Unit



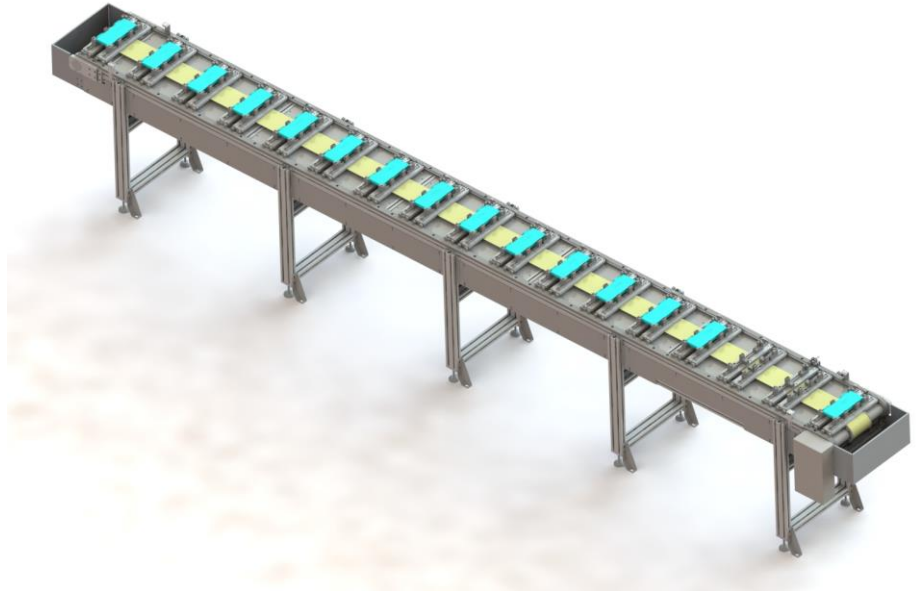
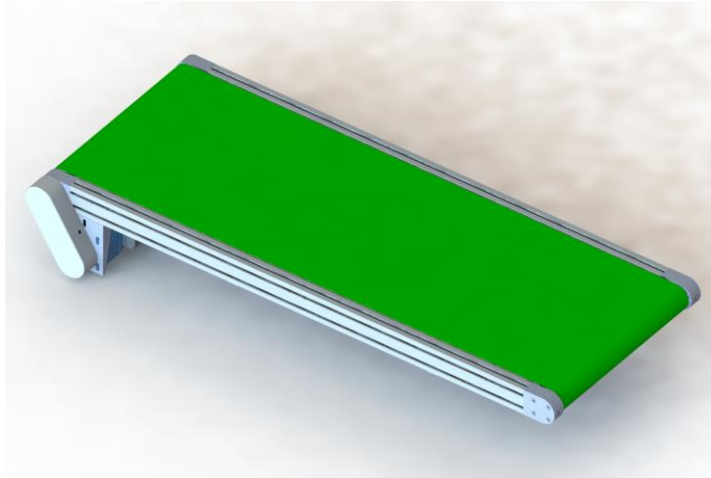
L



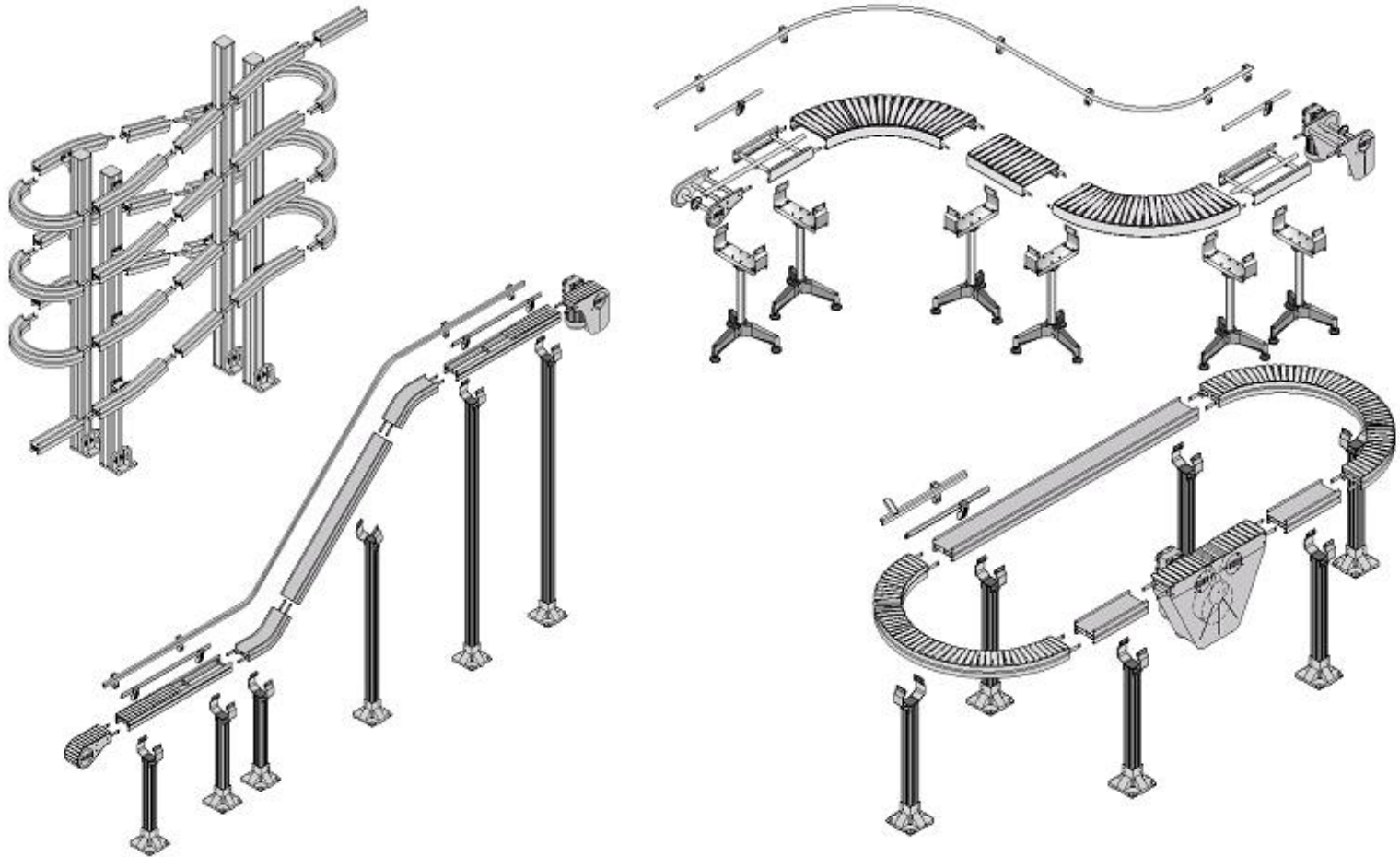
Pallet Conveyor System



Roller Conveyor System



Belt Conveyor & Attachment Conveyor



Vairo Flow Conveyor System

ALUMINUM PROFILE



Industrial Assembly Technology

Modular design

- ① Easy to assemble and disassemble
- ② Compact structure to save space

Stable quality

- ① Long term testing in our lab
- ② Used in a large number of projects

Low cost

- ① Parts produced by molding process
- ② Bath order for cost saving
- ③ Rich supply chain resource
- ④ Structure optimize

Short leadtime

- ① 3-4weeks ready for shipping

Easy maintaining

- ① Simple cleaning and maintenance
- ② Easy to change spare parts

Support customized

- ① Flexibly respond to various situations

Automotive Components



New Energy



3C



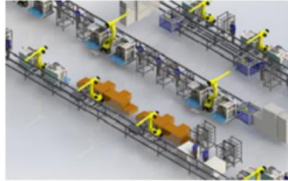
Household Electrical Appliances



Other Industry



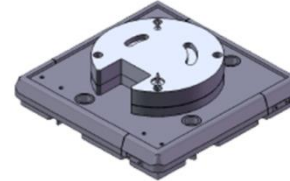
Comprehensive Supporting Services with Transportation System as the Core



Whole line planning



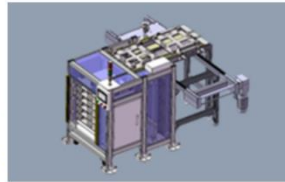
Loading and unloading of the manipulator



Tooling design and processing



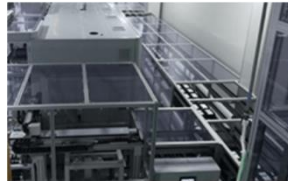
Lift unit



Material caching appliance



Air conveyor platform



Dust cover



Dust removal device



High temperature conveying



Electrical standardization



Other non-standard conveying devices



On-site construction

Customers

International Customer

Domestic Customers



Suppliers

SIEMENS



FESTO



SICK

SEW
EURODRIVE

OMRON

AirTAC

INOVANCE

KEYENCE



Panasonic

A Nidec Group Company
SHIMPO

CKD

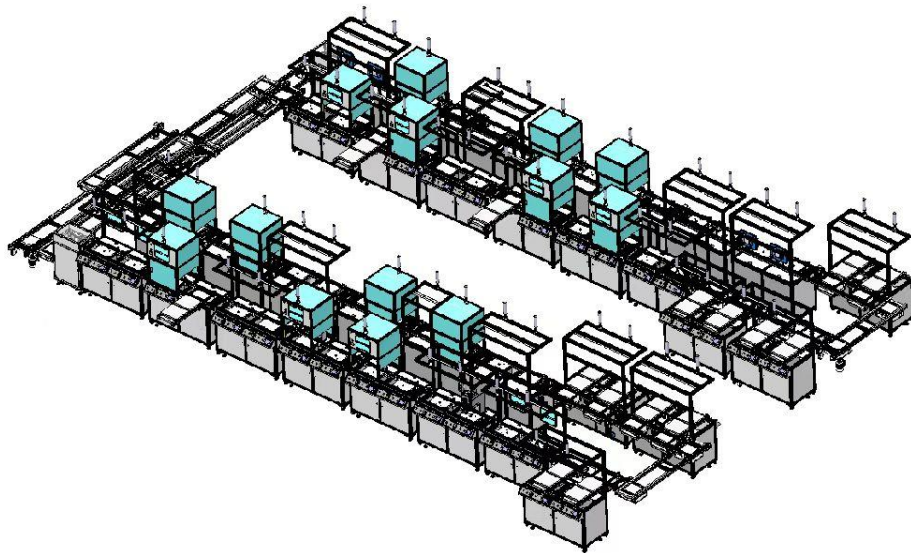
SUMITOMO

THK

Case-Air Blower

Assembly for Air Blower

1. The line body adopts the combination of Timing belt and flat belt line body
2. The total length is about 90 meters, with a total of 34 workstations



Caes-Sweeping Robot

Sweeping Robot

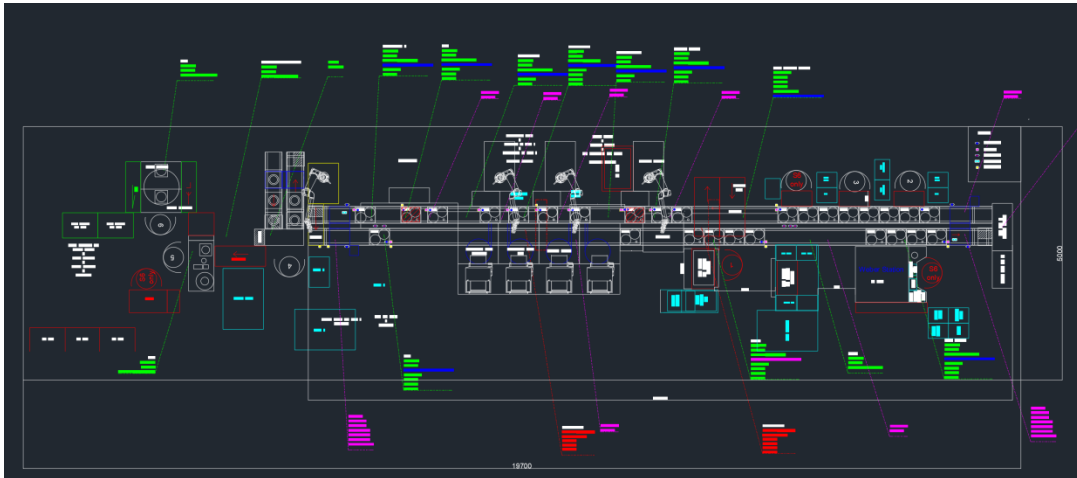
1. The line body adopts the combination of Timing belt and flat belt line body
2. The total length is about 70 meters, with a total of 30 workstations



Case-Vacuum Cleaner

Vacuum Cleaner Assembly

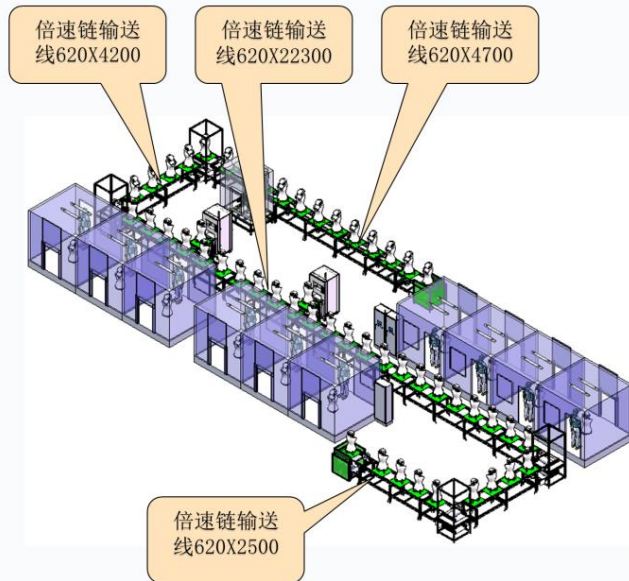
1. Adopting a circular belt line design to achieve semi-automatic assembly
2. The total length of the wire body is about 46 meters, with a total of 21 workstations



Case-Service Robot

Service Robot Line

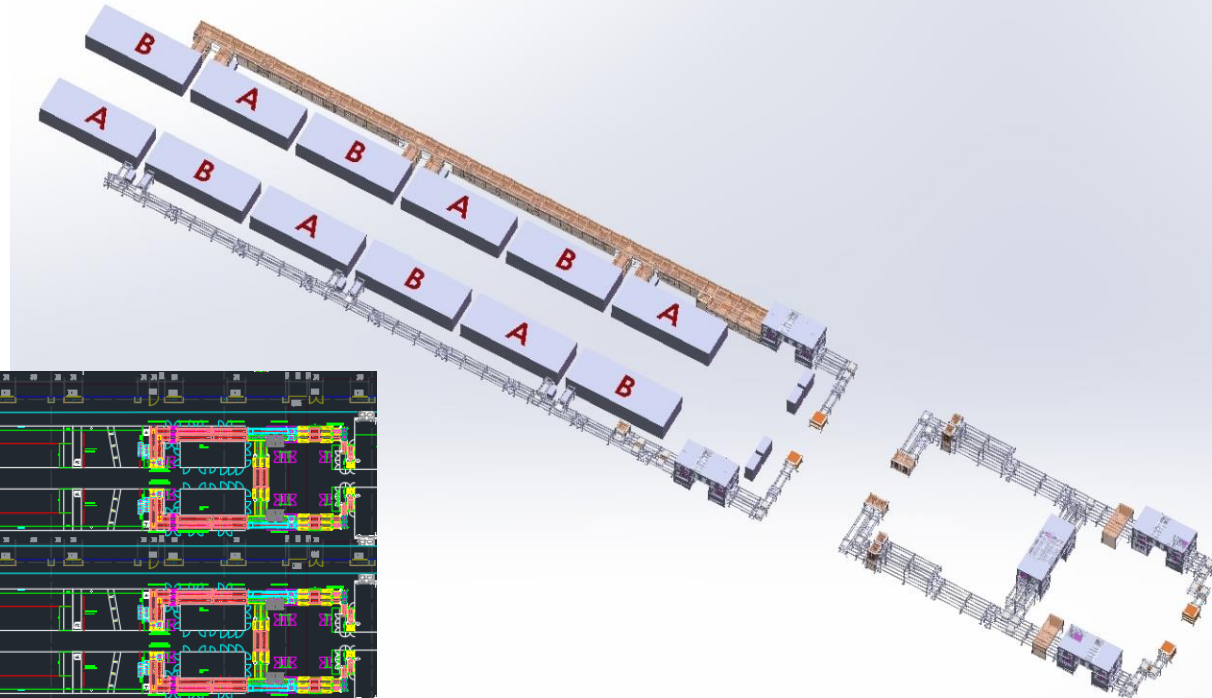
1. The wire body adopts 08B speed chain wire body, and the entire project is divided into 10 segments, including robot head assembly, left and right arm assembly, machine assembly, machine aging testing section, packaging section, etc
2. The total length is about 600 meters, with a single pallet load of about 90kg on the robot assembly line



Case—Assembly of new energy battery cells

Cell assembly

1. Single line 24PPM
2. Fully automated production, modular design



Case—Assembly of new energy battery cells

Cell assembly

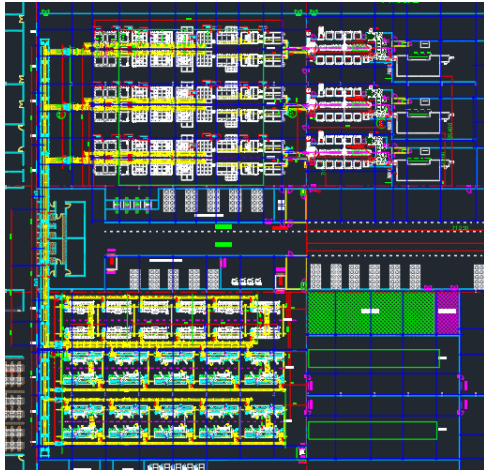
1. Single line 30PPM
2. Fully automated production, modular design



Case—Assembly of new energy battery cells

Cell assembly

1. Single Line36PPM
2. Fully automated production, modular design



Case—Module and Pack Segments

PACK test line for energy storage batteries

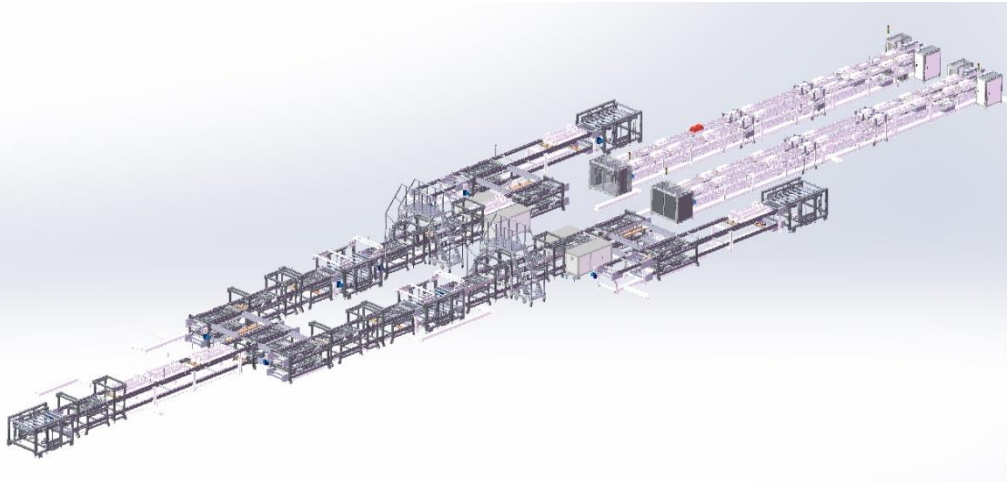
1. Adopting an integrated drum conveyor line
2. Single pallet load 450KG
3. Implement battery PACK testing
4. Including 21 workstations for heavy lifting positioning, lifting lateral movement, and lifting rotation



Case—Module and Pack Segments

Battery module assembly testing line

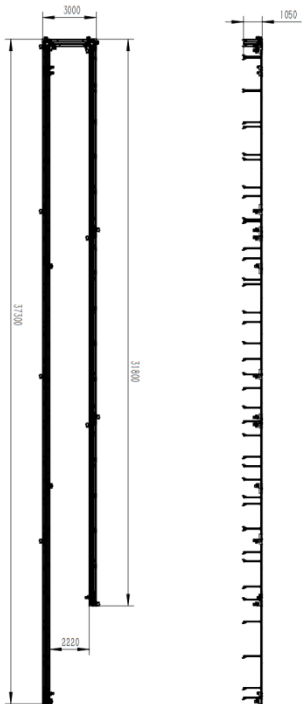
1. Using heavy-duty double speed chain (12B) conveyor line
2. Single pallet load 300KG
3. Implement battery module assembly and testing
4. Including 14 non-standard devices for heavy-duty lifting positioning, lifting lateral movement, lifting machine, and lifting rotation



Case-Motor Assembly

Motor Assembly

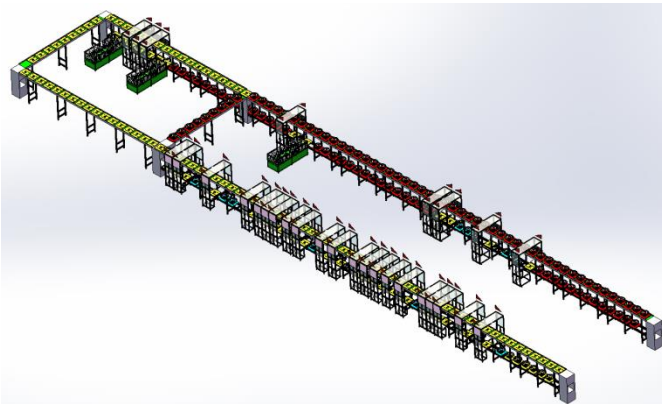
1. The entire line is 40 meters long
2. Adopting a U-shaped layout
3. Fully automated production, ultimately used by Mexican factories



Case-Car Audio

Car Audio

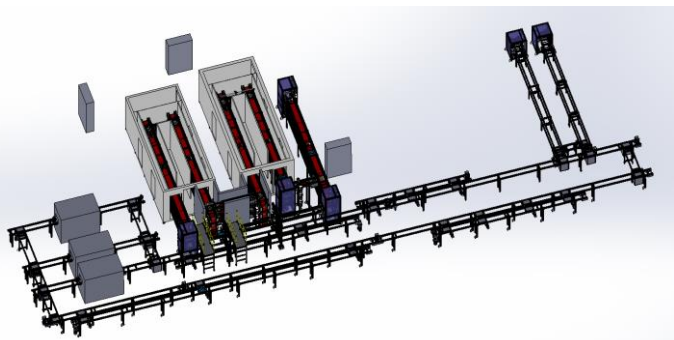
1. 22 automatic workstations and 7 manual assembly workstations
2. Adopting a two-layer reflux mode with a U-shaped layout
3. Production rhythm: 4 minutes



Case-Automotive Component Assembly

Automotive Component Assembly

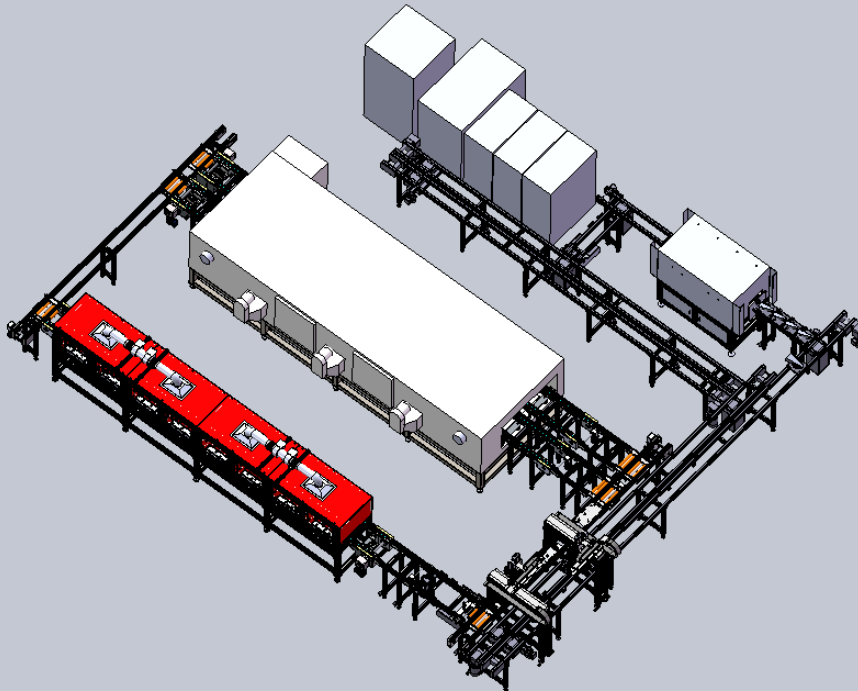
1. Including motor assembly and transportation to gluing and high-temperature furnace, elevator and loading and unloading manipulator
2. Motor assembly uses Timing belt and flat belt conveyor line
3. The temperature inside the high-temperature furnace reaches 150 °C, and the insulation time is 20 minutes
4. High temperature resistant double speed chain conveyor is used for conveying in the furnace



Case- Automotive component assembly

Automotive Component Assembly

1. PCBA assembly, butt welding, vacuum gluing, drying, cooling and other fully automatic connections, with a full line speed of 15 seconds
2. Online drying requirements: 150 ± 10 °C, 8-minute insulation
3. The entire line adopts a multi-layer wire body and elevator structure. The assembly section is a belt type structure, and the high-temperature section is a double speed chain.



Case- Automobile shock absorber assembly

Automobile Shock Absorber Assembly

1. The total length of the wire body is 46 meters
2. A total of 16 assembly stations
3. Upper and lower level design with small footprint



Thank You!

Dongguan Vitrans Automation Equipment Co., Ltd

