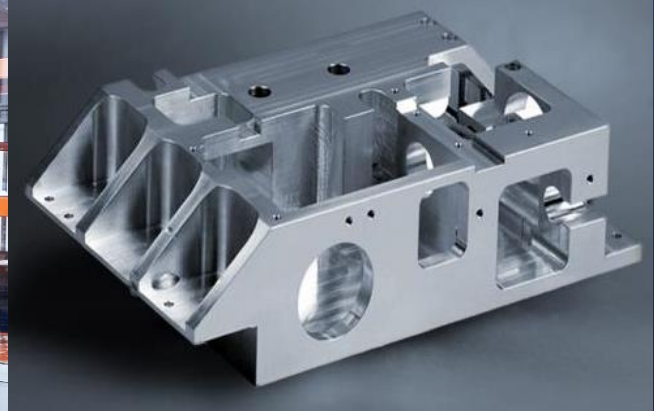
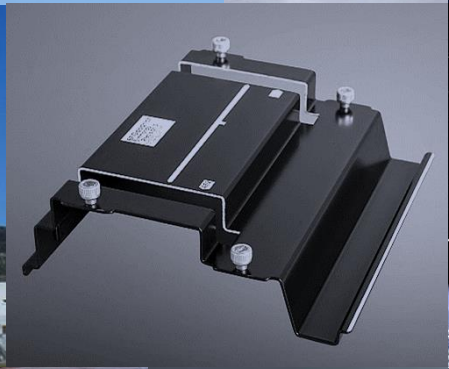




**Integrated**  
Engineering &  
Manufacturing

**TWSE:5284 jpp-KY**





**YOUR global partner**

Custom Mechanics  
High-Mix  
Low-Volume

Introductions



Finance



Product



Electric scooter



Aerospace



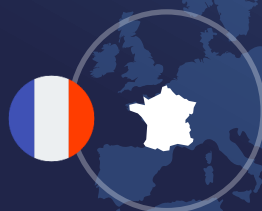
# Global

## 2 strategic poles

Year : 2022

	ASIA	EUROPE
	45M	9M
	1100	90
	1	3

EUROPE



**AGILITEAM**  
BY JINPAO

JINPAO



BANGKOK



# Introducing History & milestones



**AGILITEAM**  
BY JINPAO



# Engineering Services

## DESIGN, PROTOTYPING AND TESTING

In-house solution  
(included testing after integration)

- DFM Service
- Co-design
- CAD Systems  
(Autocad, CATIA, SolidWorks)
- Cyber Physical Simulations  
(PAM-Stamp)
- Paperless Hyper Document – PHD
- Project Management  
with FMEA risk analysis

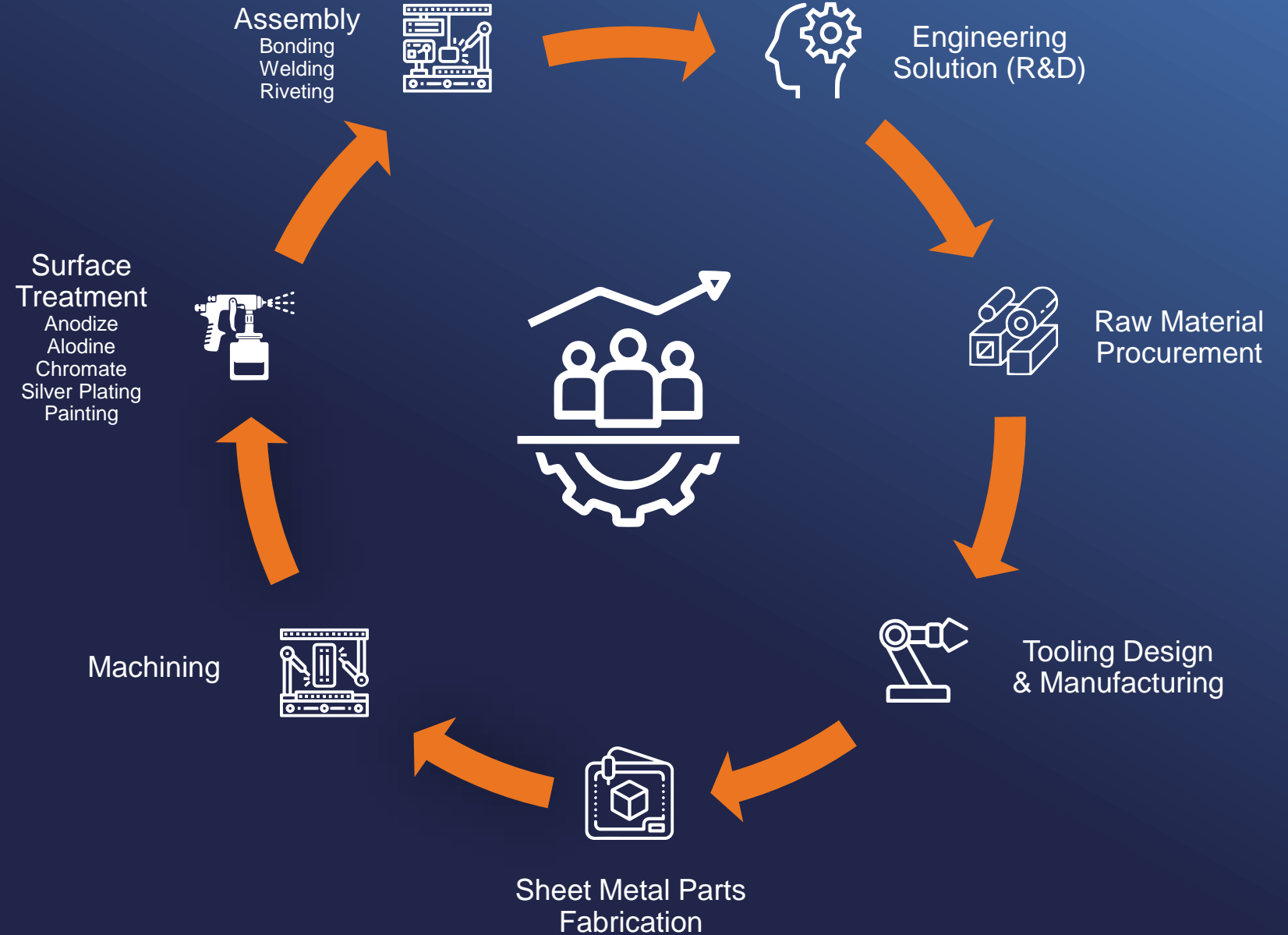


# Value proposition Integration

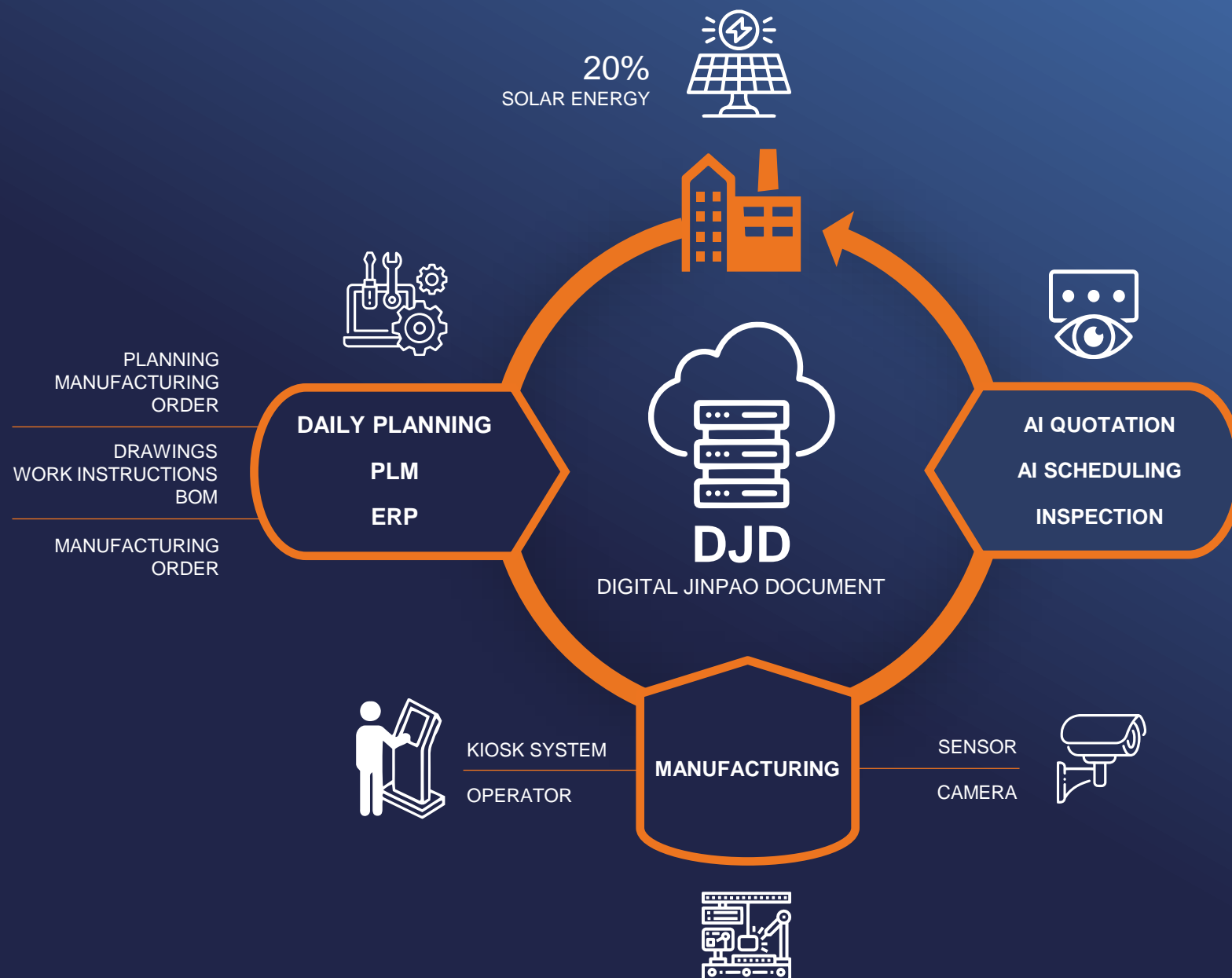
## MATERIAL TYPE

Aluminum, Stainless Steel,  
Inconel, Copper Alloys,  
Nickel Alloy, Titanium

Plate, Sheet, Bars, Extrusion, Die  
Casting



# Factory 4.0 Framework



## FACTORY 4D TOUR



# Manufacturing Processes

## OUR CERTIFICATIONS

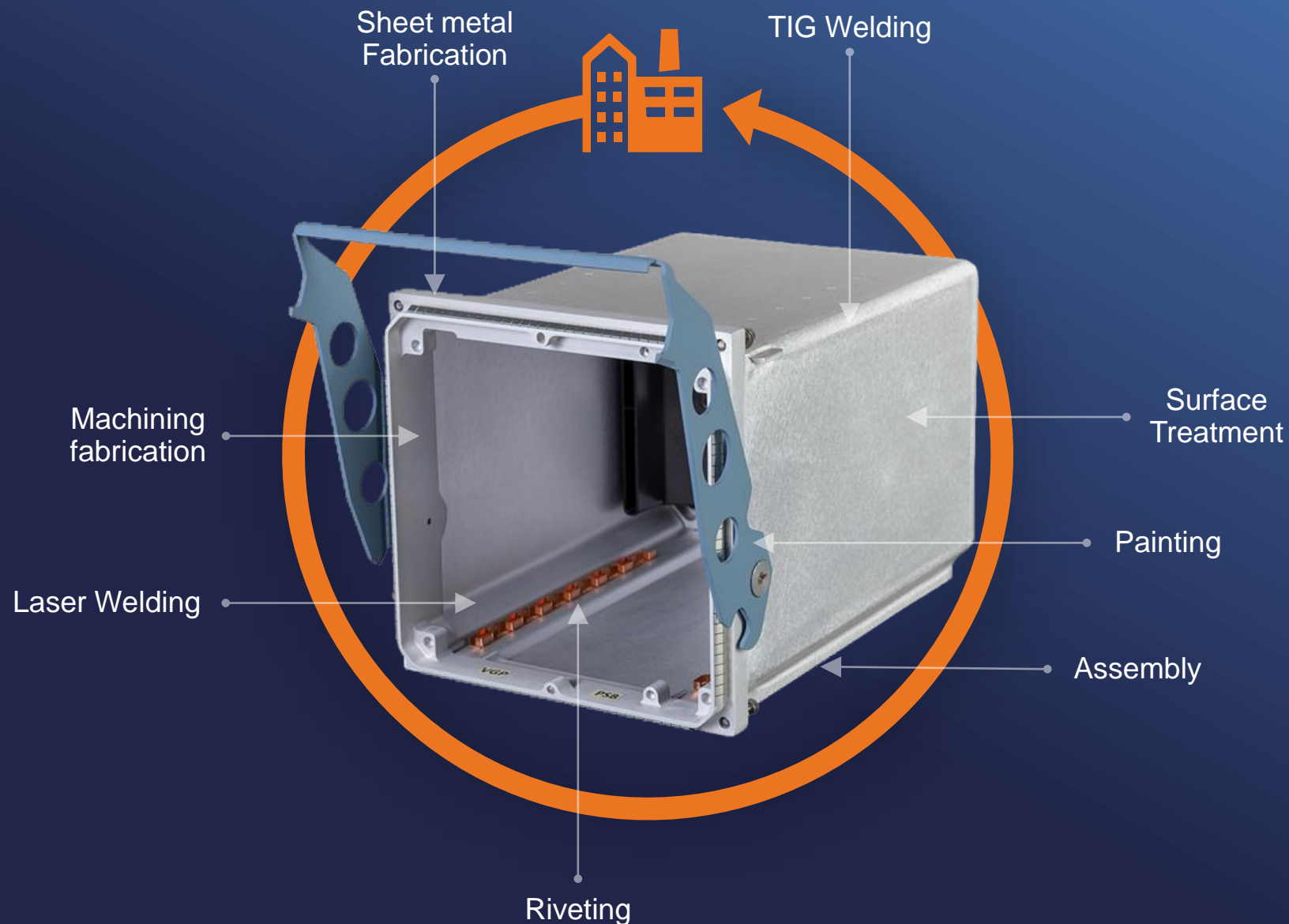


ISO 14001  
ISO /IATF 16949



Welding  
Chemical Processing  
Non-Destructive Testing  
Heat Treating

**New**







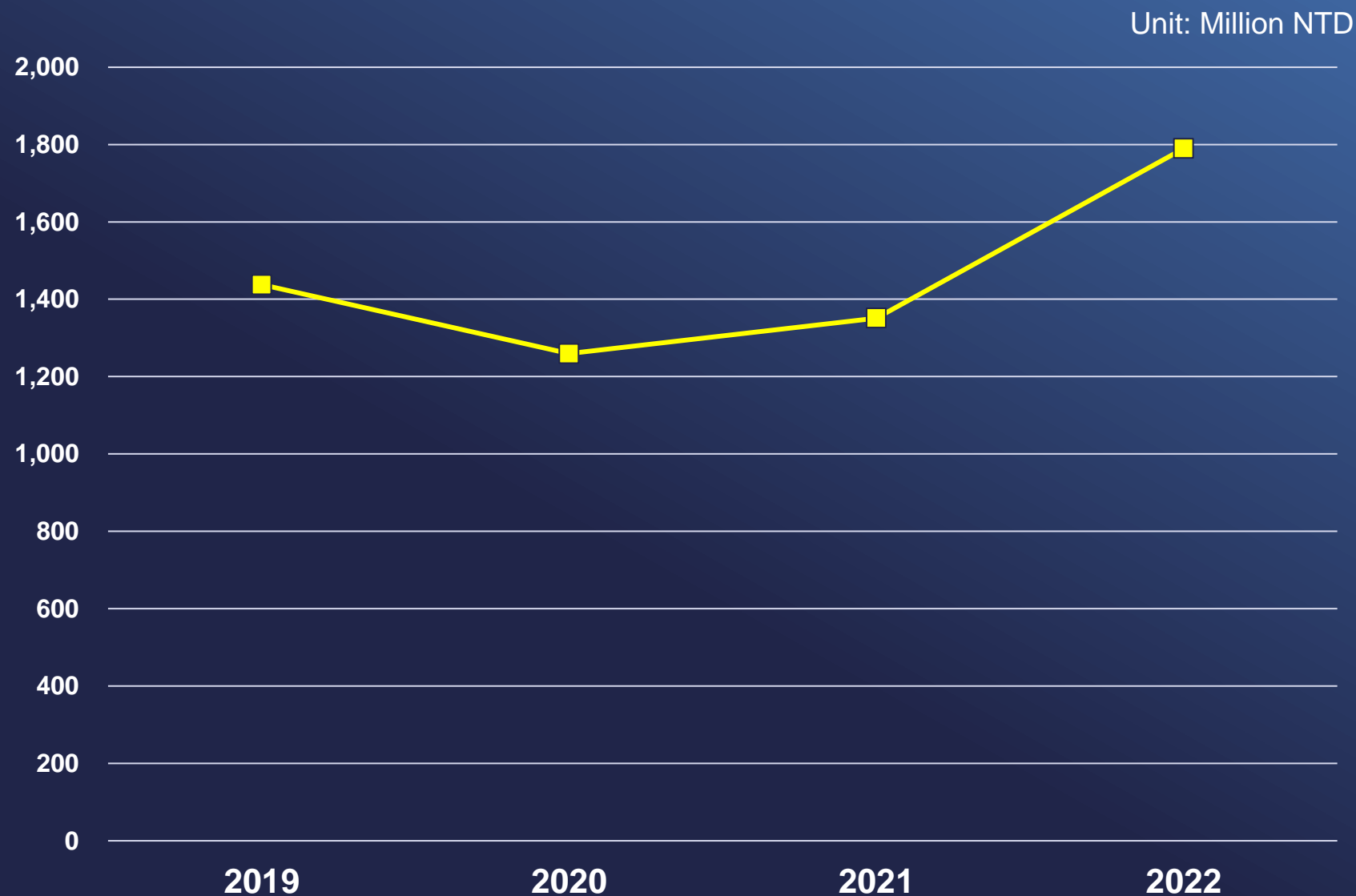
**YOUR global partner**

Custom Mechanics  
High-Mix  
Low-Volume

**Finance**



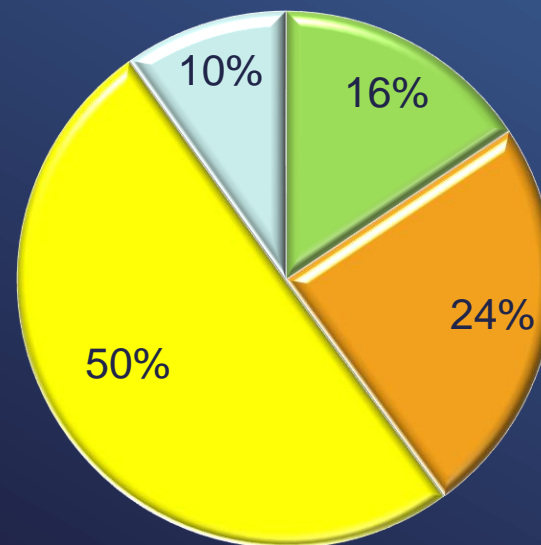
## 2019 – 2022 Sales Revenue



## Industry Distribution

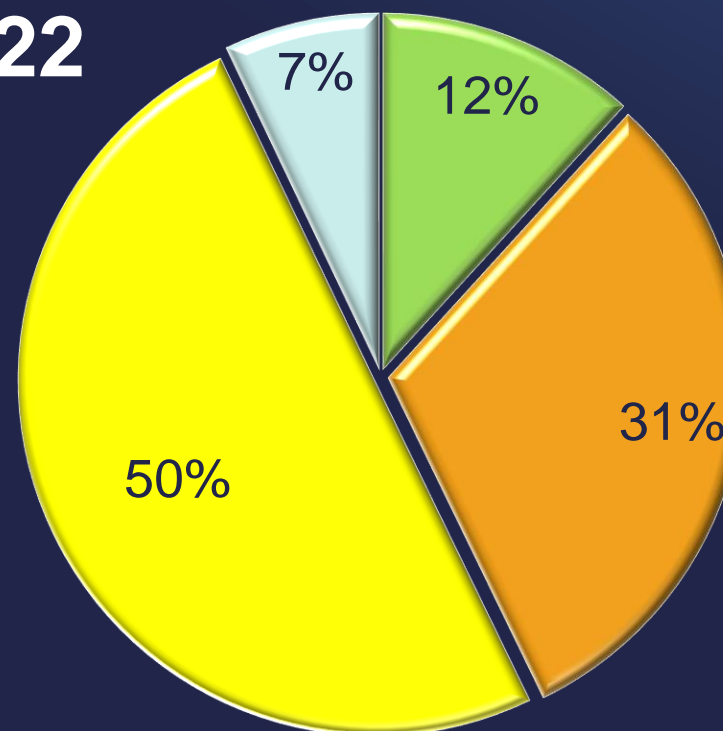
- Electronic
- Aerospace
- Telecommunication
- Others

2021



- Electronic
- Aerospace
- Telecom
- Other

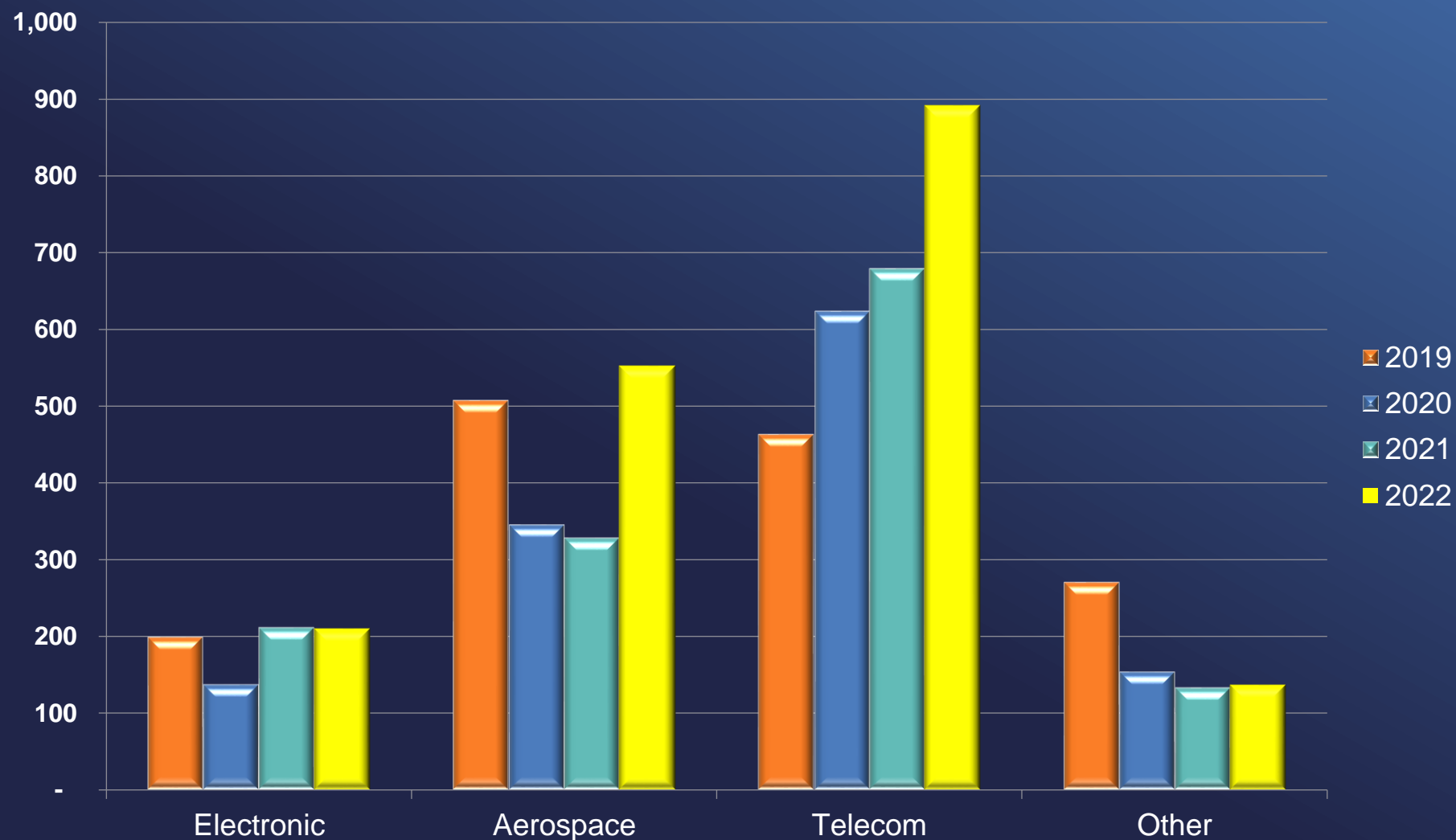
2022



- Electronic
- Aerospace
- Telecommunication
- Other

## Industry Distribution

- Electronic
- Aerospace
- Telecommunication
- Others



## GP & EPS

- 2019
- 2020
- 2021
- 2022

## GM % and EPS

— GM % — EPS







**YOUR global partner**

Custom Mechanics  
High-Mix  
Low-Volume

**Product**



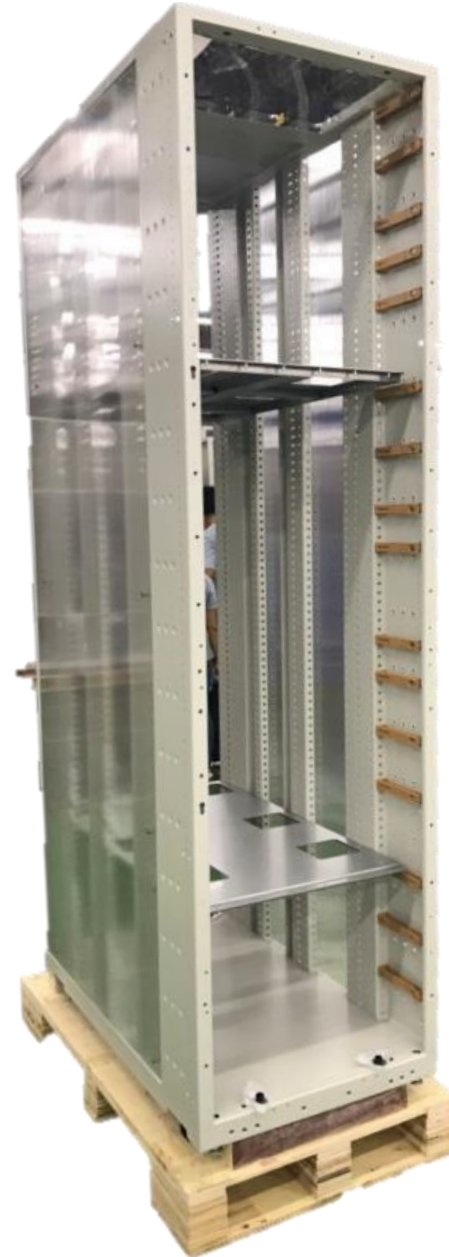
## Data Center

### -Rack

42U

48U

48U Open Rack



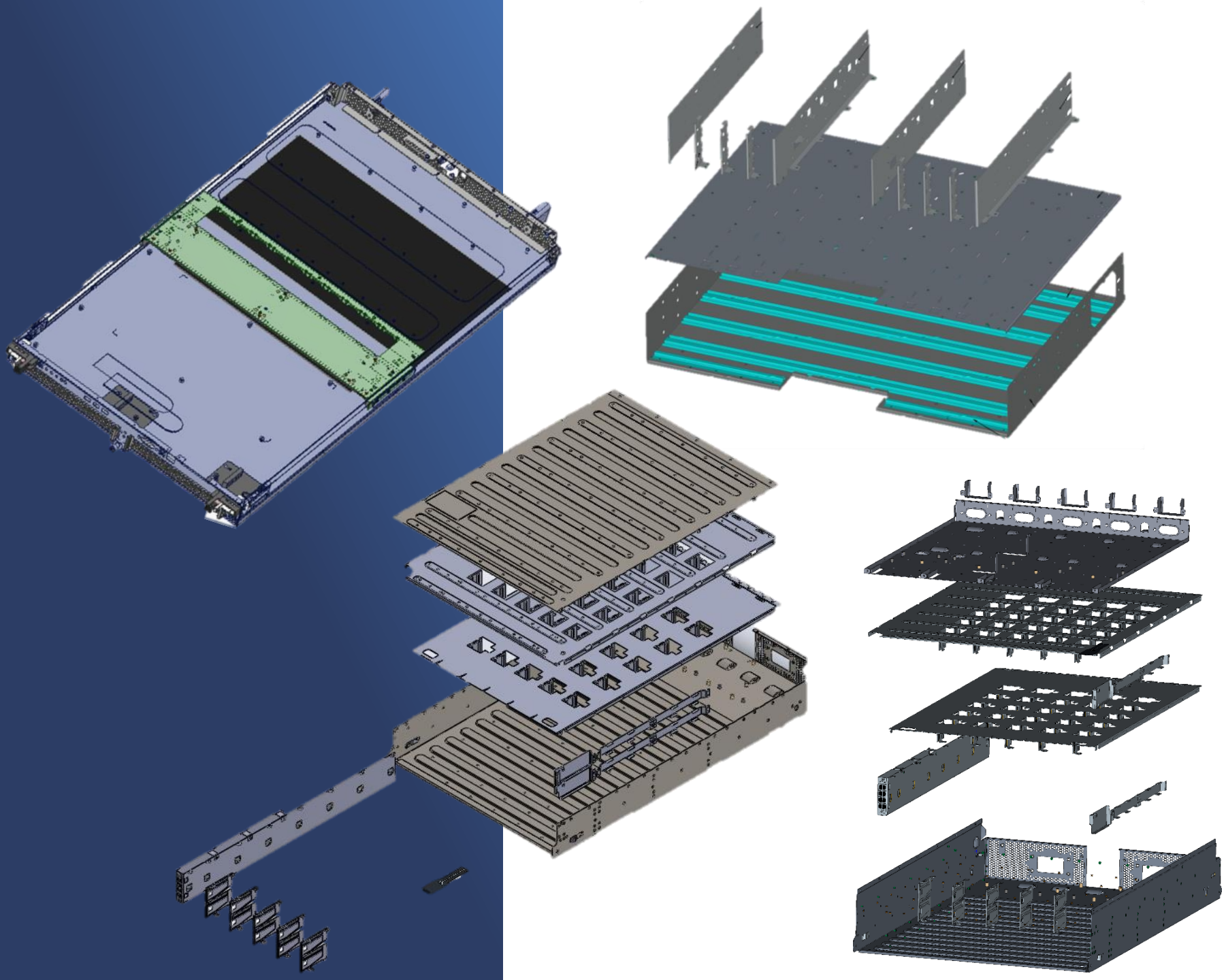
## Data Center

- Server

1U

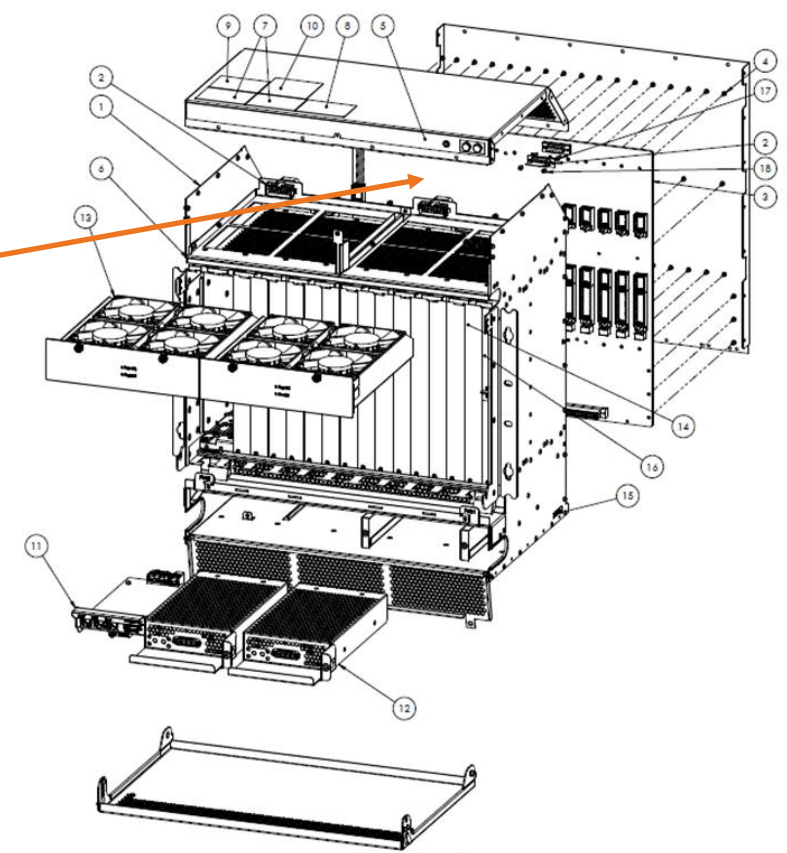
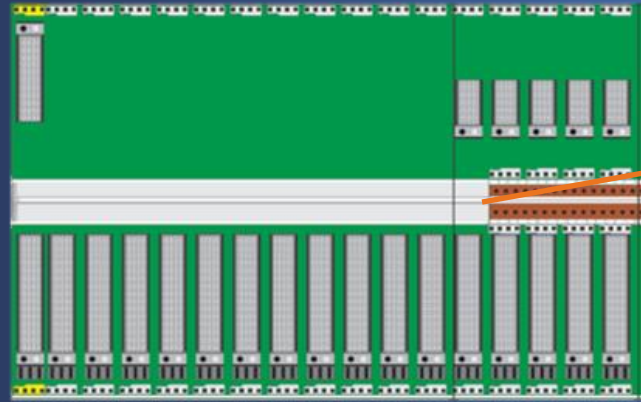
2U

3U





# Model PCB Assemble



# Manufacturing Equipment



## TECHNOLOGY AND FOOD SAFETY

JINPAO provide manufacturing of equipment for Automotive industry, included:

- food scanners
- vending machines
- X-Ray Metal Checker
- Automatic Combination Weightier
- Milk Analyzer

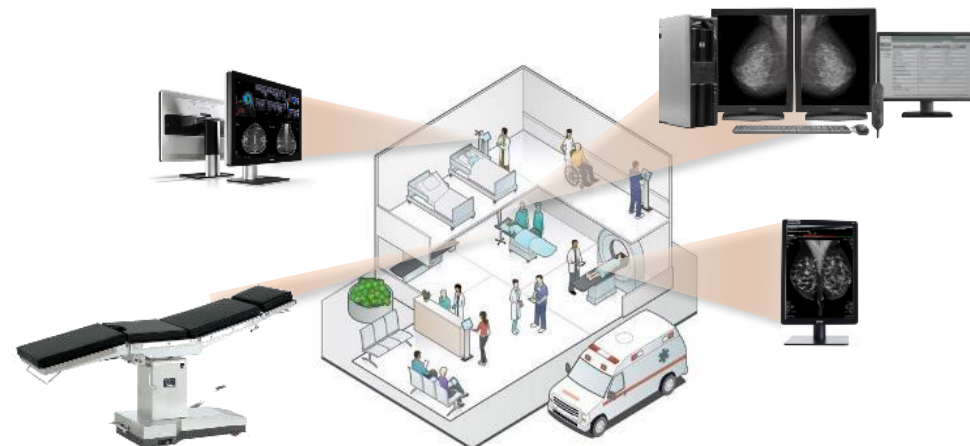




# All Product Application



# Medical Equipment





**YOUR global partner**

Custom Mechanics  
High-Mix  
Low-Volume

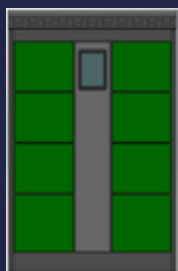
**Electric scooter**



# Introducing History & milestones

## JINPAO

- Concept
- Original Design Manufacturer



2021  
Feb

## JINPAO & Outsource

- R&D on battery related topics
- Design of electronic part
- Develop Application & Control



2021  
Mar

## JINPAO

- Assembly & Install to Cabinet.
- Cabinet.
- Wiring diagram.
- Built in program.



2021  
Apr

## JINPAO

- Test for the efficiency of charging the battery.
- Temperature.
- Cost of charge.



2021  
May

## JINPAO

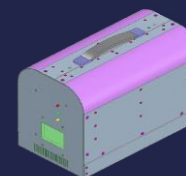
- API for creating platform.
- Payment.
- Parameter of Battery.



2021  
Jun

## JINPAO

- Battery charger development
- Low cost.
- Open parameter.
- Communicate in RS232 format.



2021  
Dec

## JINPAO & Outsource

- R&D on multi-voltage charge topics
- Design of electronic part
- Optimized by experts
- Design of electronic part
- Develop Application & Control



2022  
Feb Mar

## JINPAO

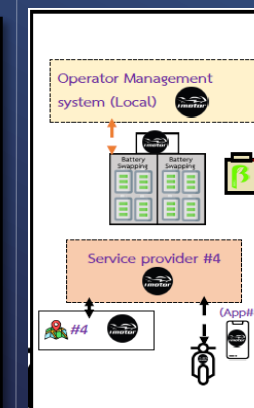
- API for creating platform.
- Payment.
- Parameter of Battery.
- Update display to show battery charging parameters
- Trial Run.



2022  
Jun

## JINPAO for NSTDA

- Concept
- Original Design Manufacturer
- Developed a multi-voltage battery charging system.



2022  
Jul Aug

2023



## Electric scooter



### Vapor

- Design in Thailand
- Made in Thailand

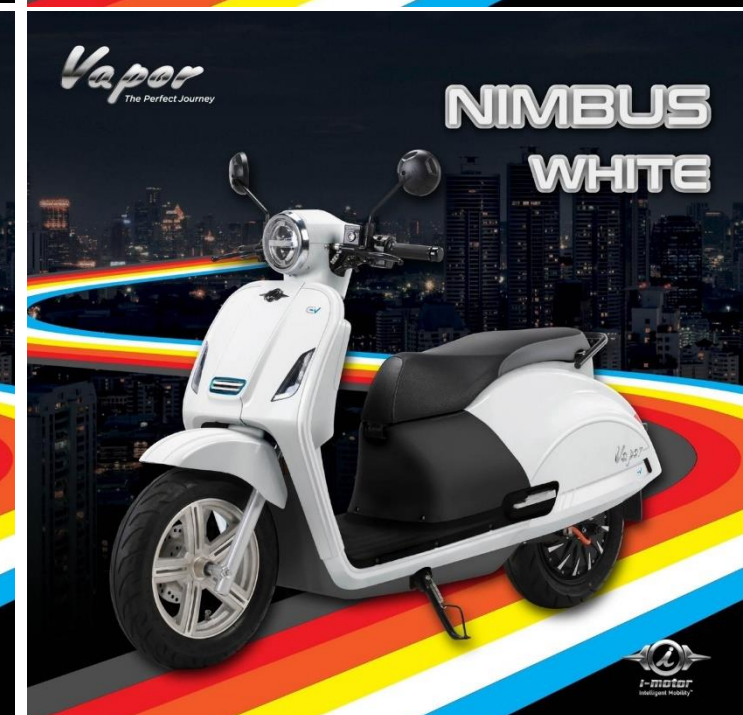
# Vapor

COLOR OPTIONS





# Electric scooter





## Electric scooter



## ● BIKE SPECIFICATION ●



# Vapor

**Electric Motor Power**  
3,000 W.

**Max Speed**  
100 km/h.

**Avg Speed**  
75 km/h.

**Net Weight**  
96 kg.

**Front Tire Size**  
100 / 90 - 12

**Vehicle Size**

(W)760 x (L)1,895 x (H)1,220 mm.



**Battery Type**  
Lithium - ion (NMC)

**Battery Specification**  
Non Swapable 72V 40 Ah.  
Swapable 72V 25Ah x2

**Charging Distance**  
120 km. / 1 Charged

**Brakeing System**  
Disc Brake FR&RR

**Rear Tire Size**  
130 / 70 - 12

**Gear Reverse**  
Yes



Battery Capacity



ELECTRIC POWER



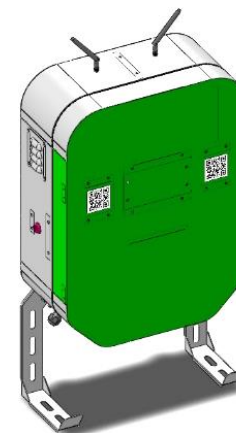
EV

# Charger and Swapping stations Energy



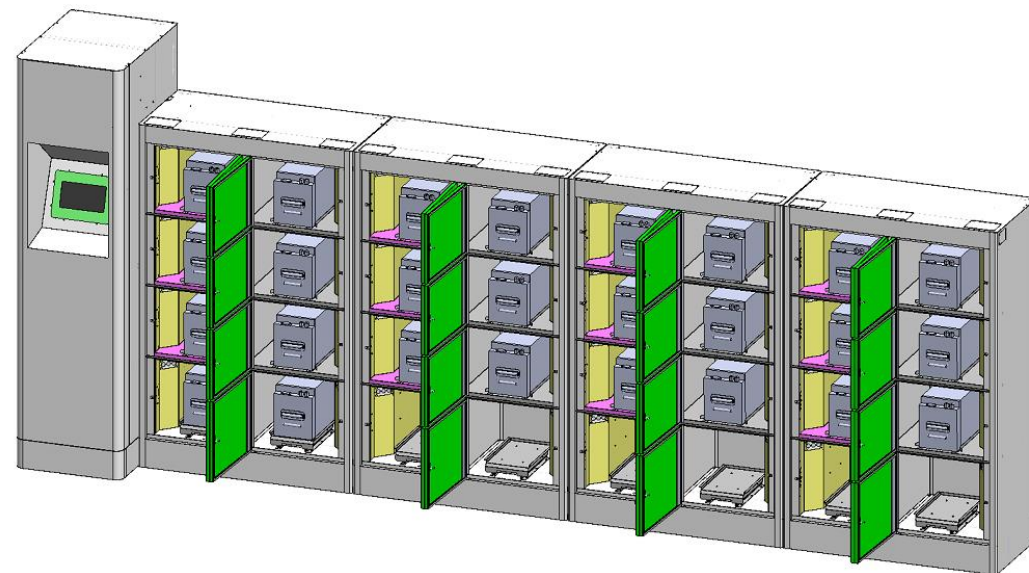
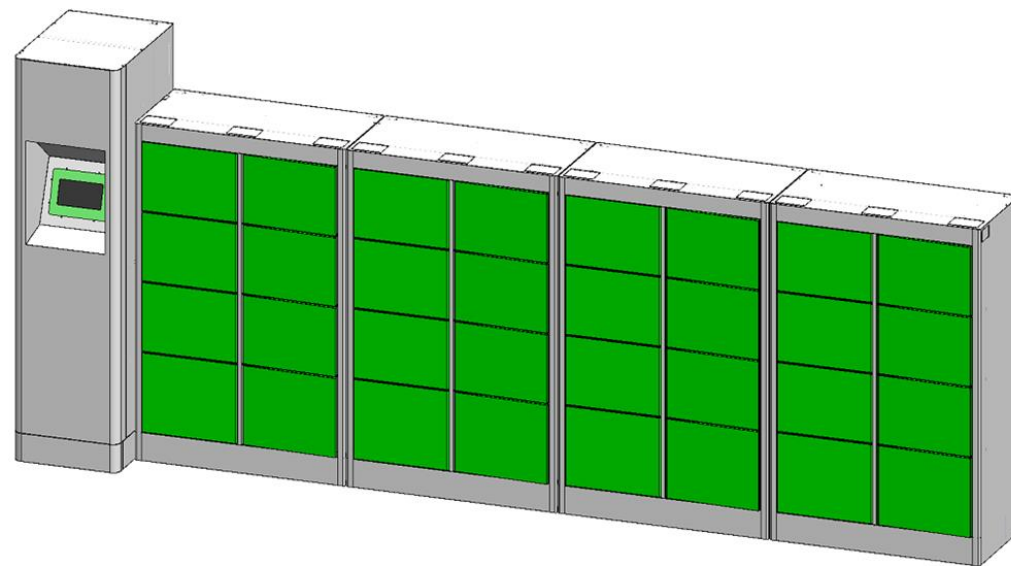
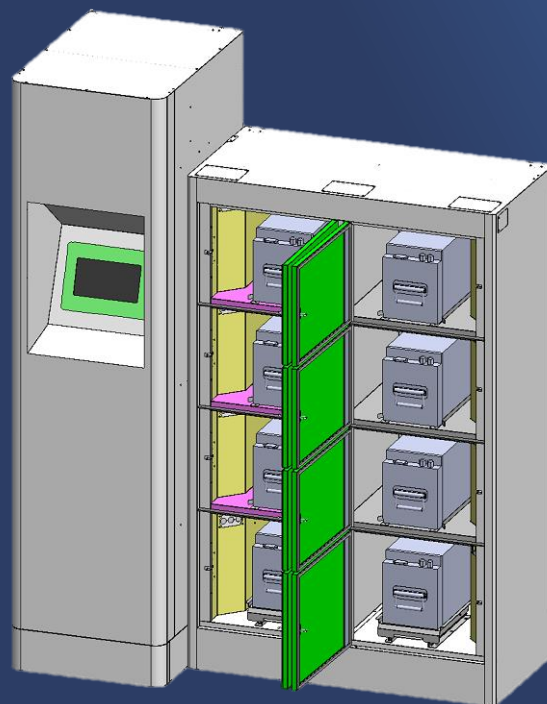
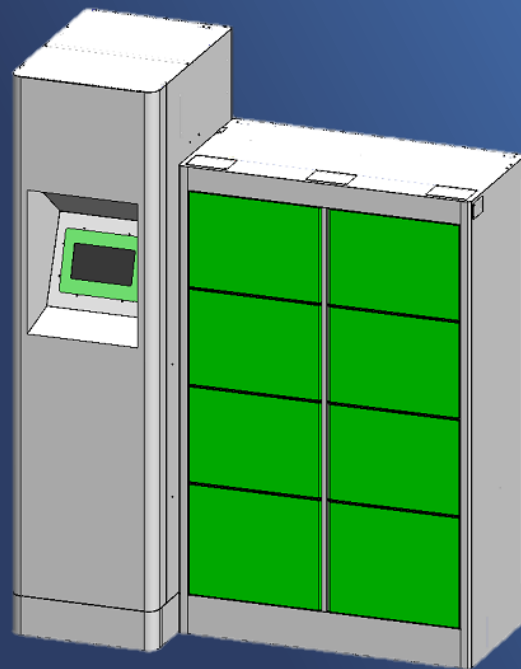
## FEATURE AND SPECIFICATION

RFID / Scan payment  
Full charging time : 1~5 hours  
(depend on type of battery)  
Charging power :  
72V 40A max 2880W  
Charge 2 battery / station  
Charge status indicator and alert  
sound.



# Swapping stations ( NSTDA )

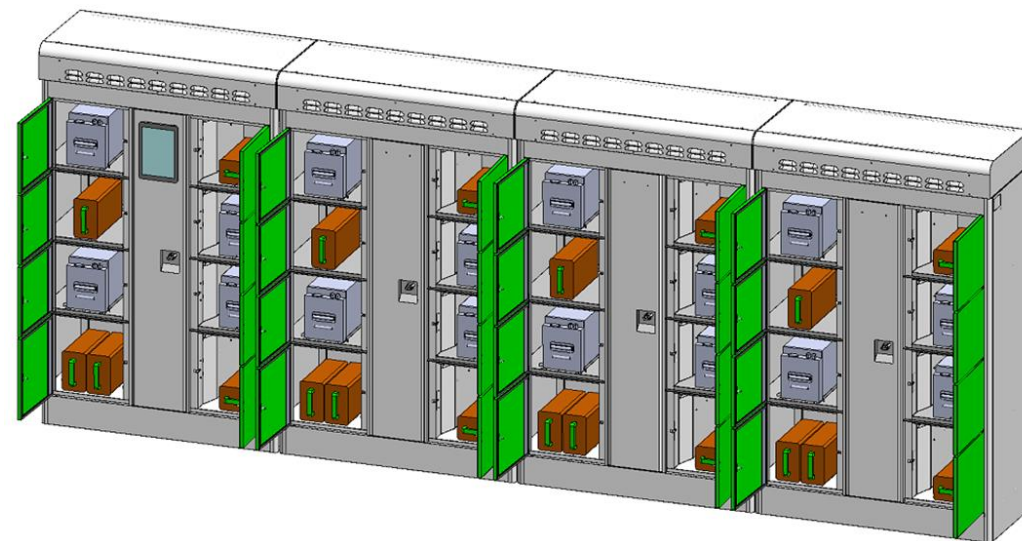
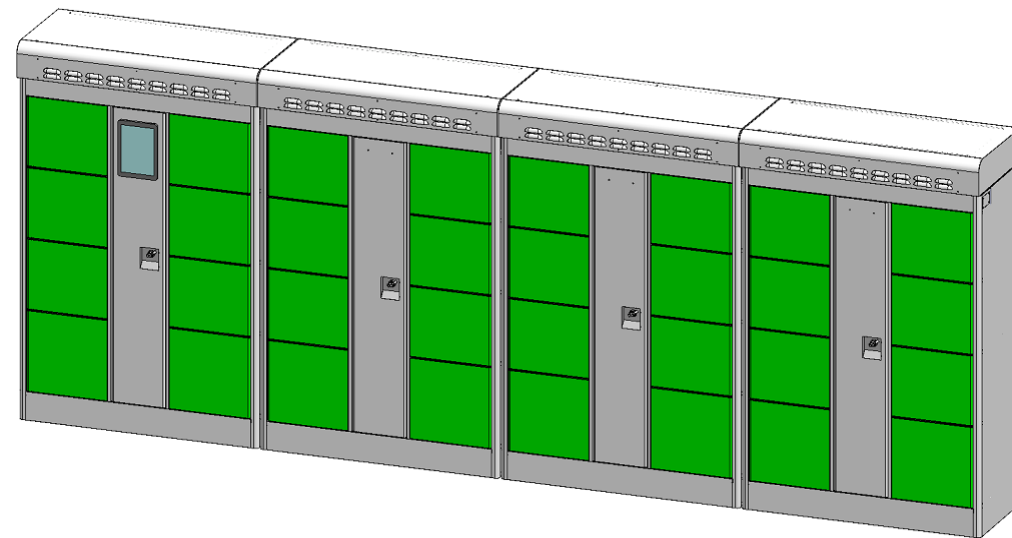
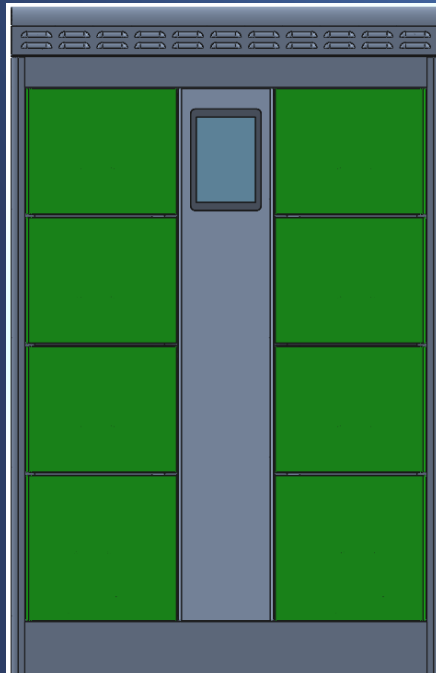
National  
Science and  
Technology  
Development  
Agency





# Swapping stations ( NSTDA )

National  
Science and  
Technology  
Development  
Agency





# Swapping stations ( NSTDA )

National  
Science and  
Technology  
Development  
Agency



# Swapping stations ( HONDA )

Global SPEC



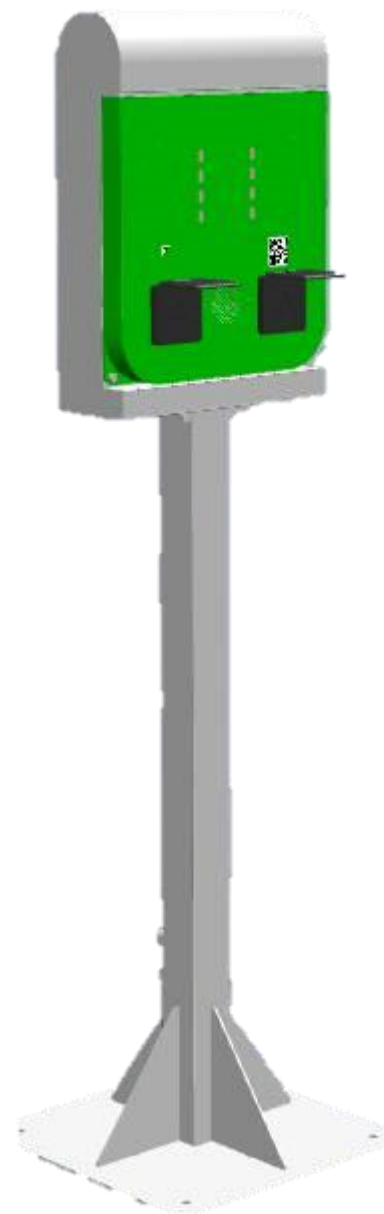
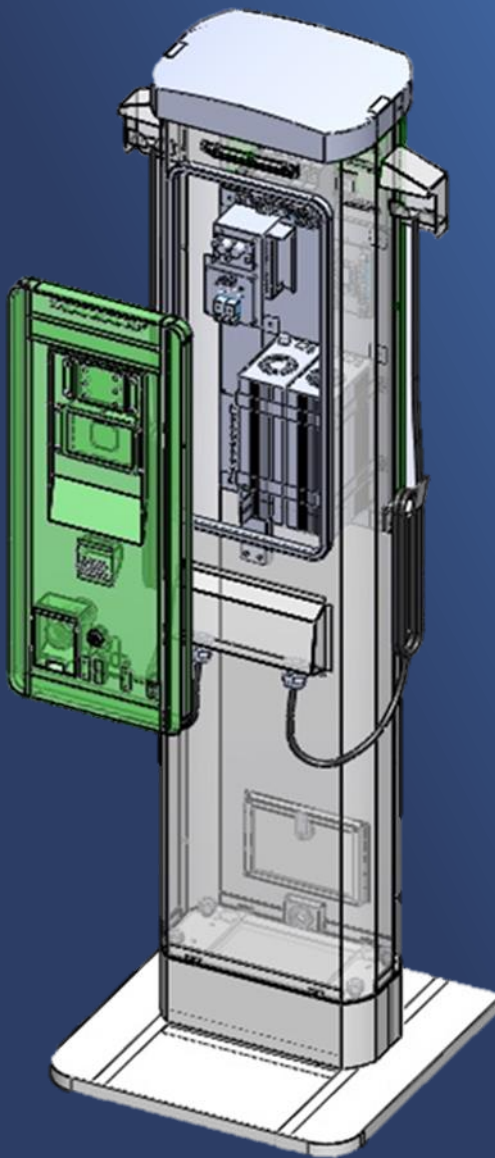


# Charger Energy

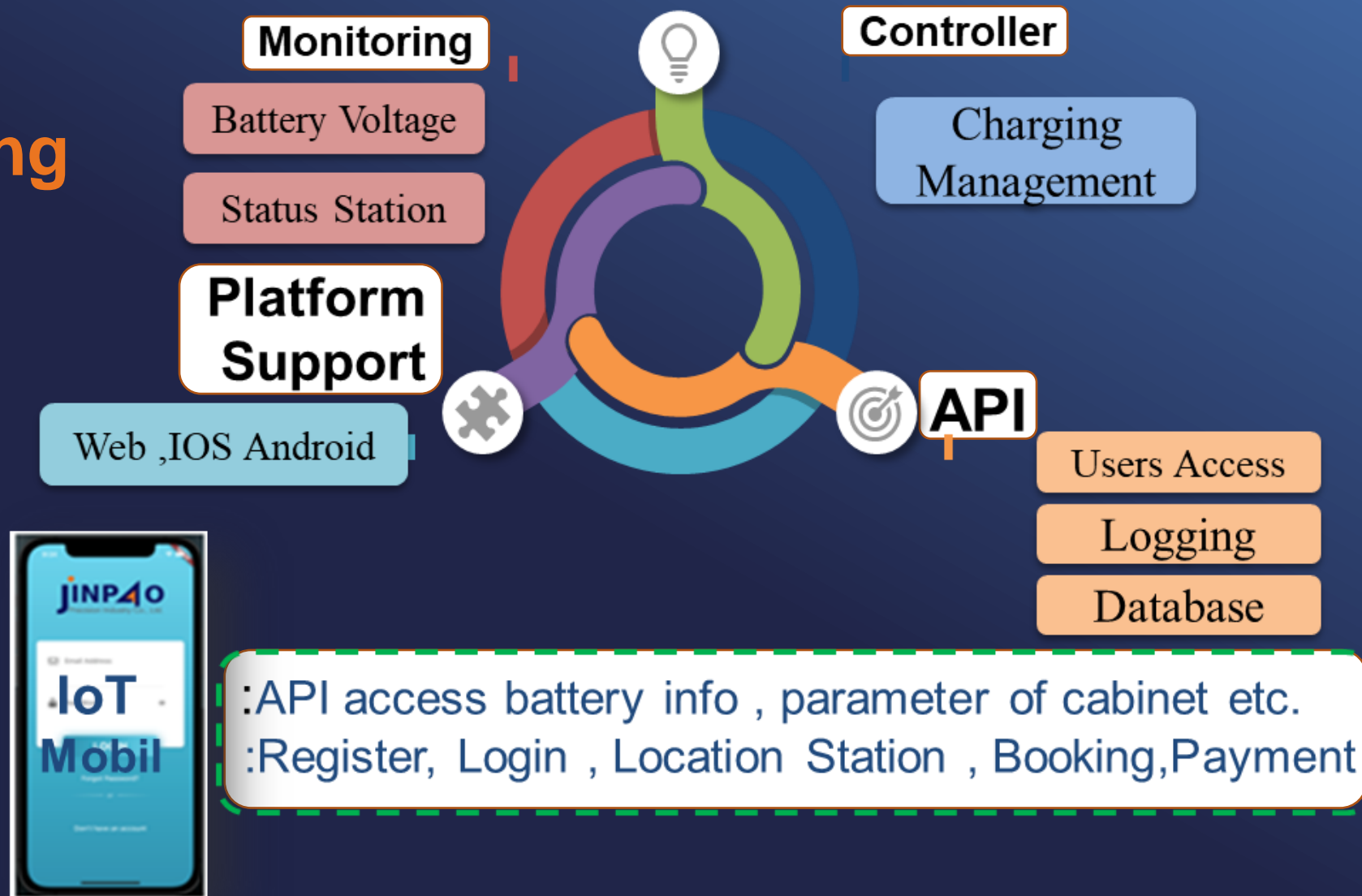


## FEATURE AND SPECIFICATION

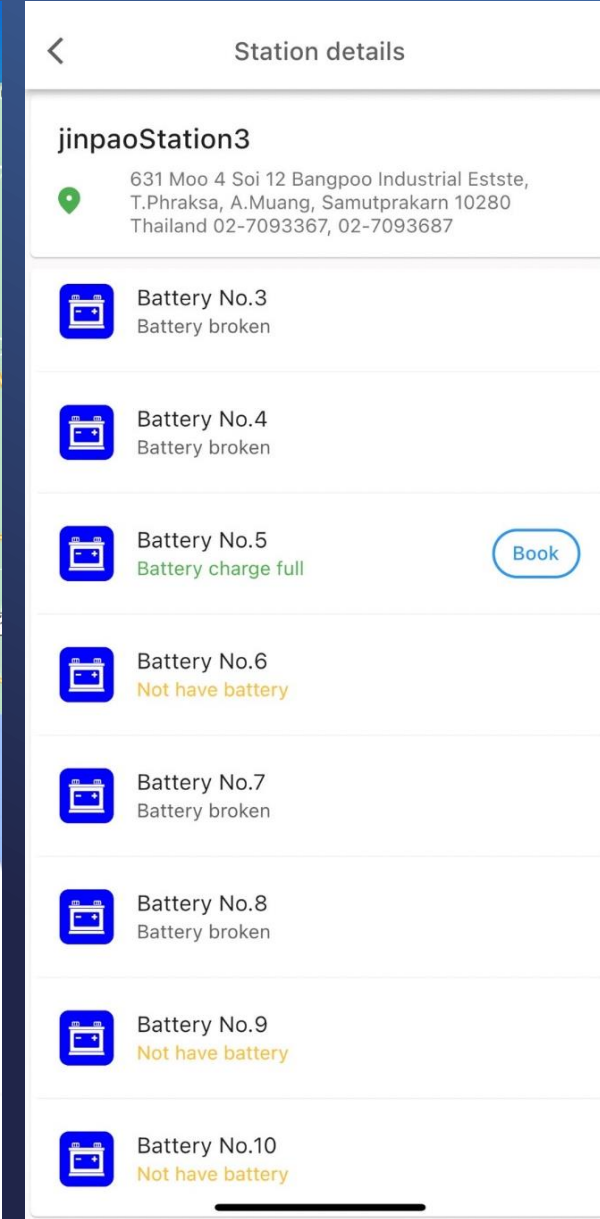
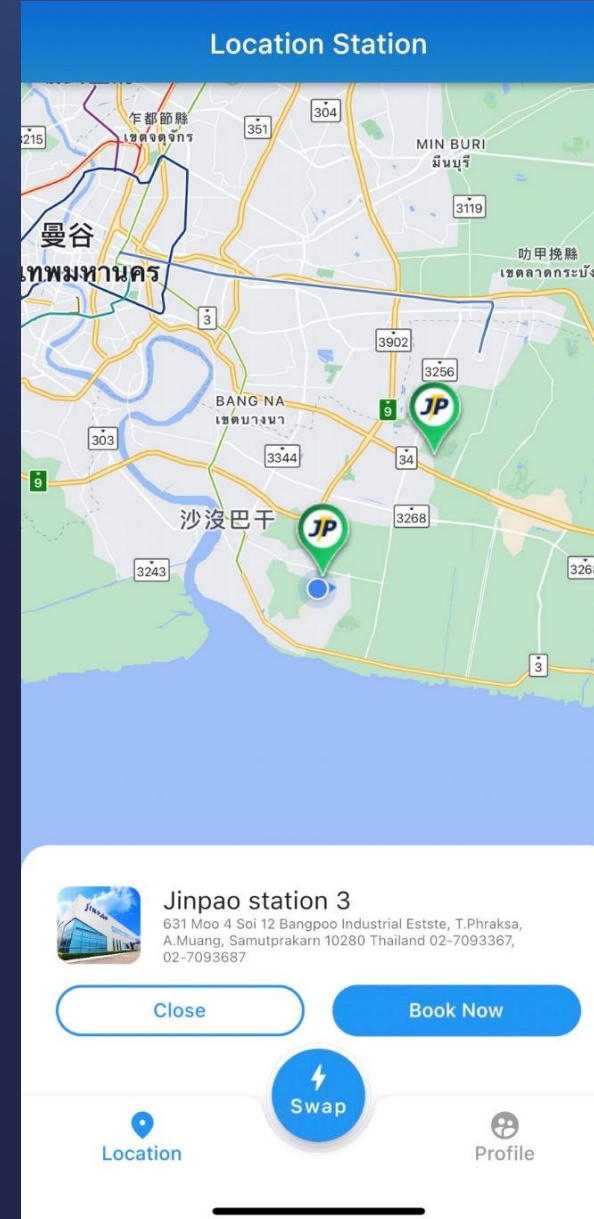
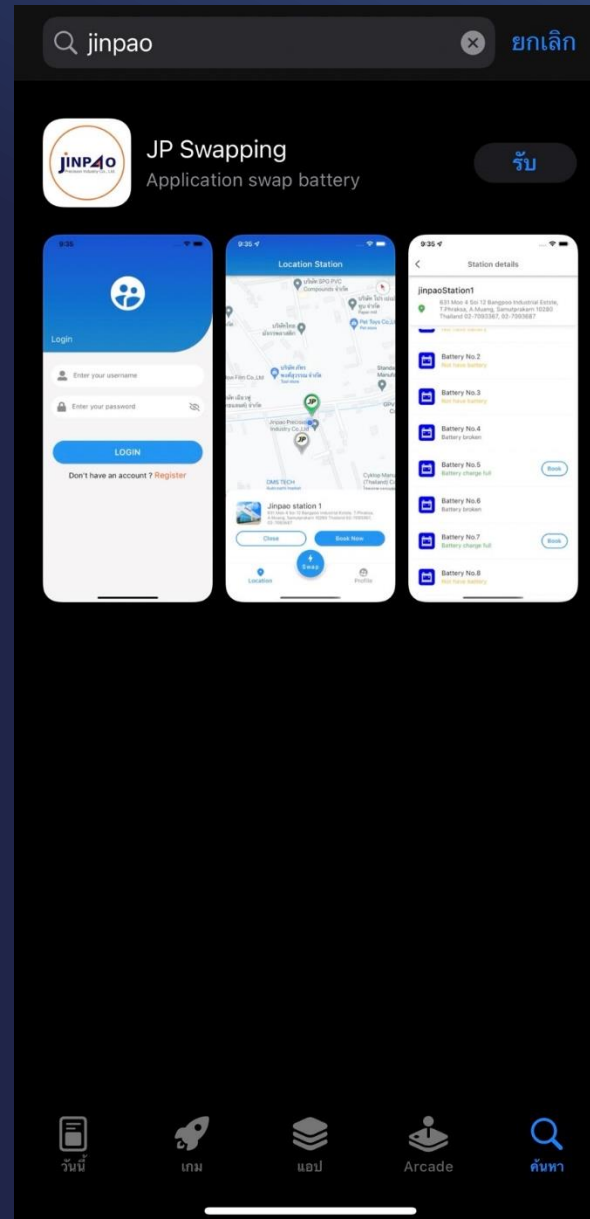
RFID / Scan payment  
Full charging time : 1~5 hours  
(depend on type of battery)  
Charging power :  
72V 40A max 2880W  
Charge 2 battery / station  
Charge status indicator and alert  
sound.



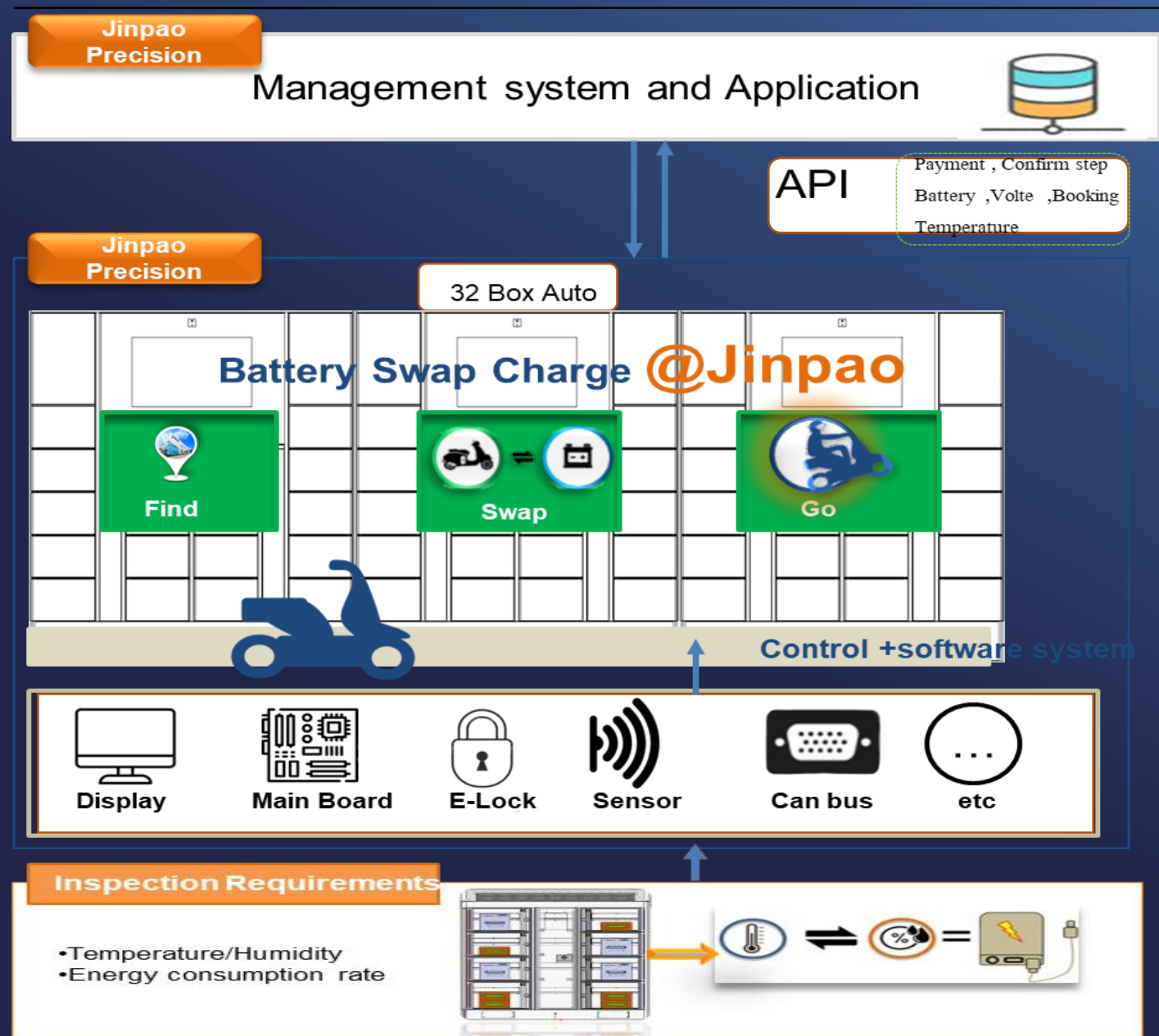
# Battery swapping Application



# JINPAO APP



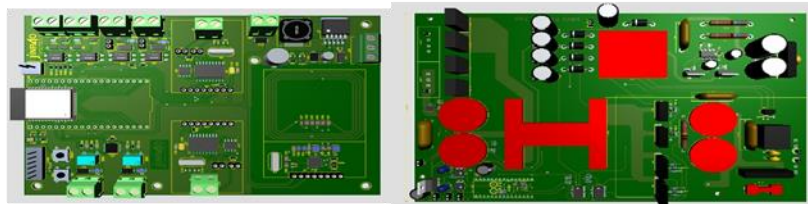
# JINPAO APP



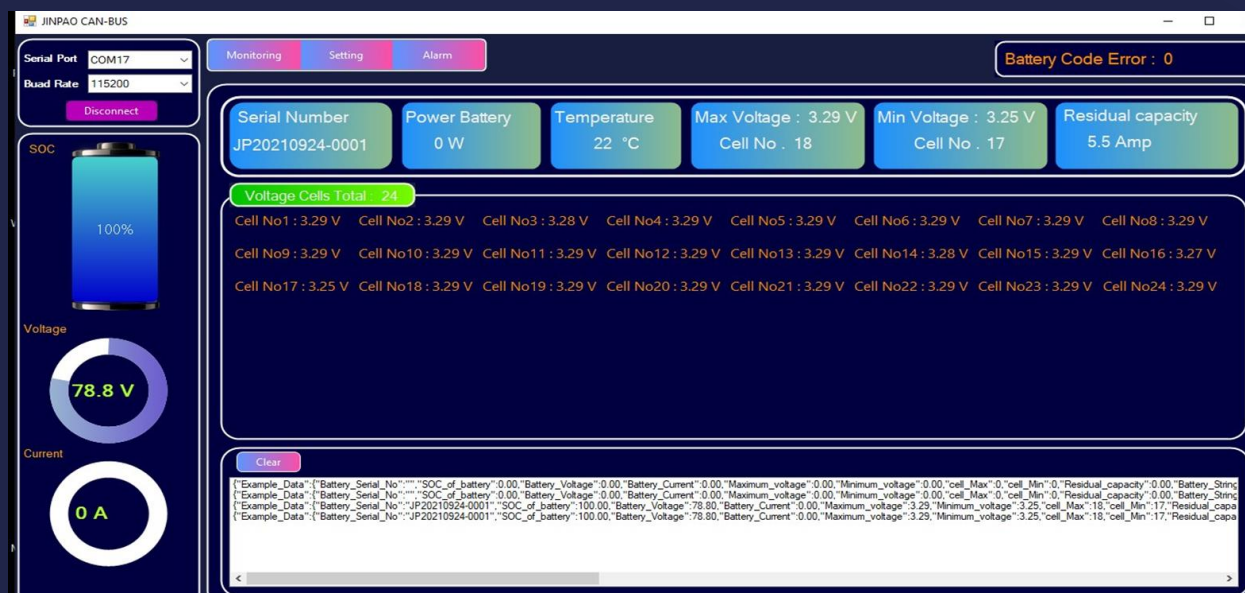


# JINPAO APP

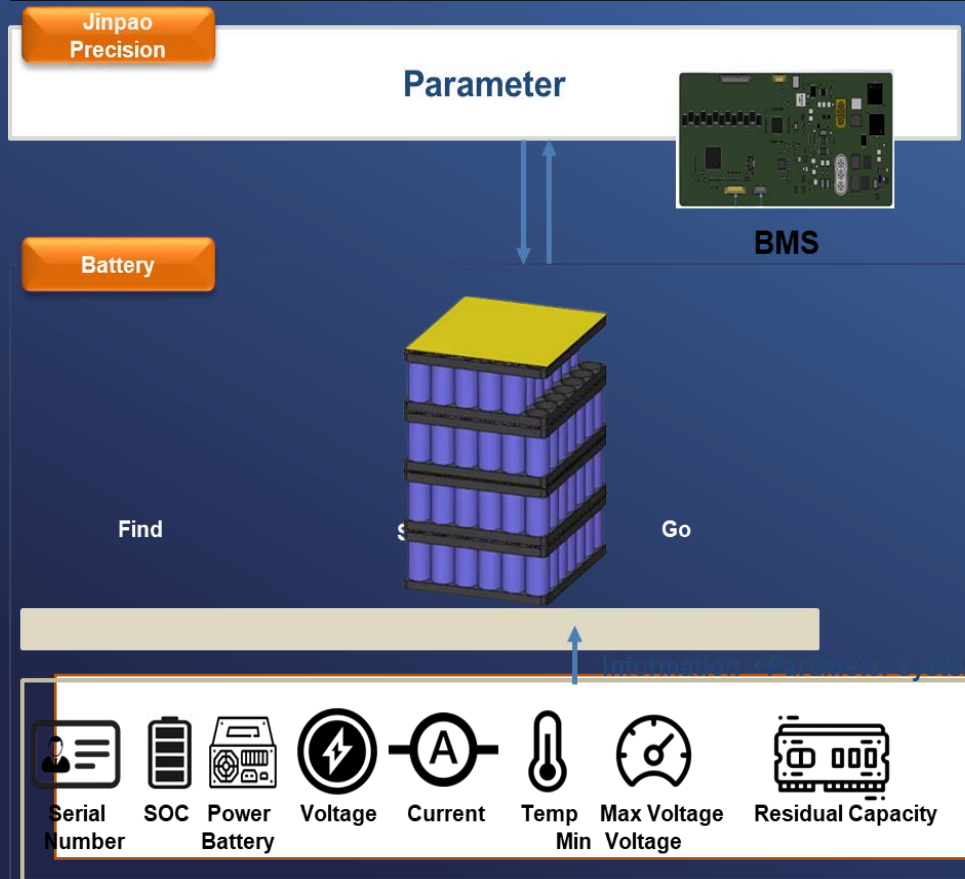
## Smart Charger Support



- Internal :CAN BUS PROTOCOL
- External :RS232
- Wireless :2.4 GHz(Optional)



## CAN BUS PROTOCOL @Jinpao

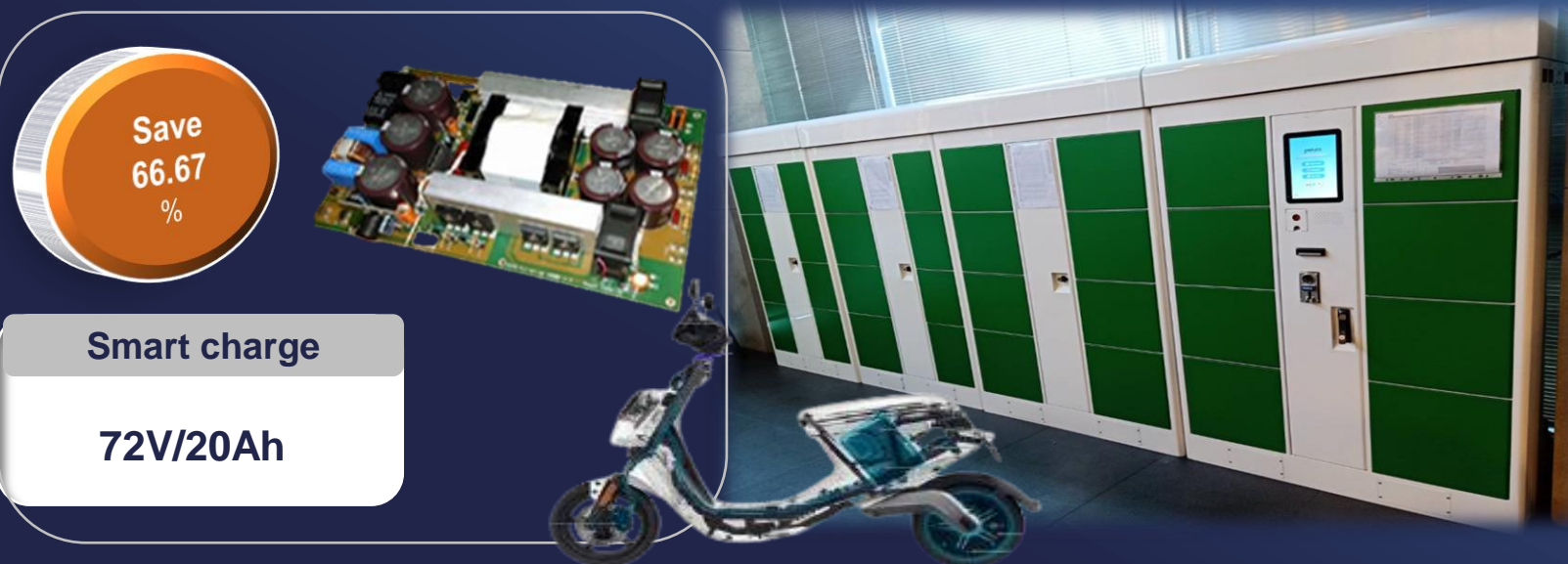




# Jinpao Smart Charge

Jinpao  
Precision

## Power Charger Board



Smart charge

72V/20Ah

48 V

60 V

72 V

48,64,72V/20 Ah  
Multi Voltage Charger



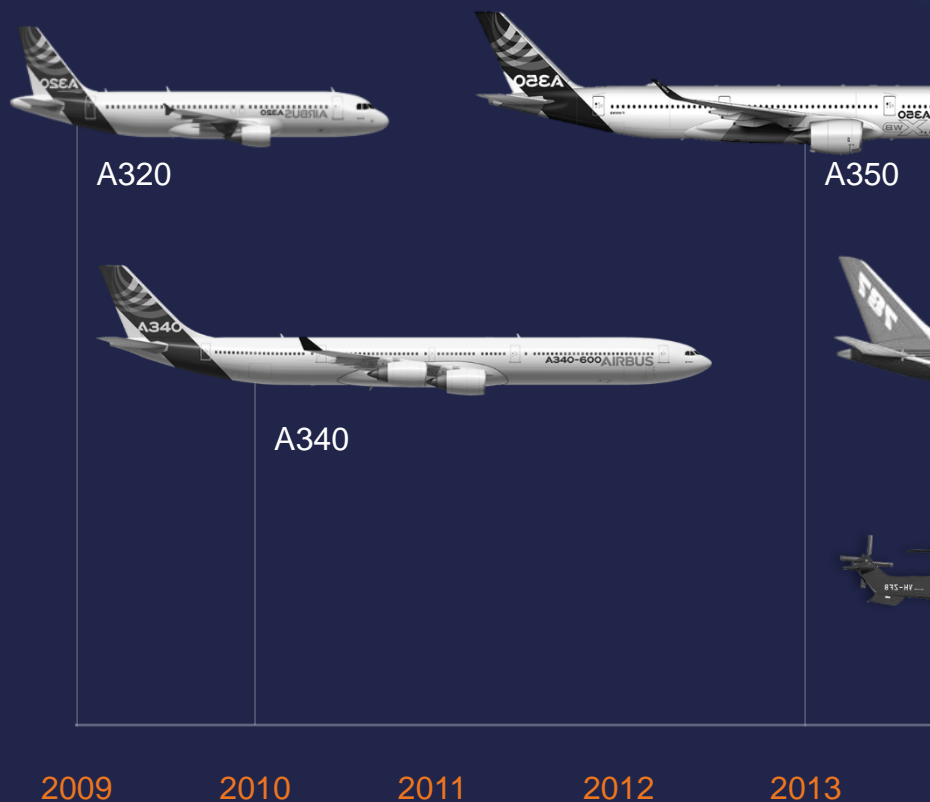
**YOUR global partner**

Custom Mechanics  
High-Mix  
Low-Volume

**Aerospace**



## Diversified Aerospace Program (Portfolio)



# Single Aisle program





# AIRBUS Program

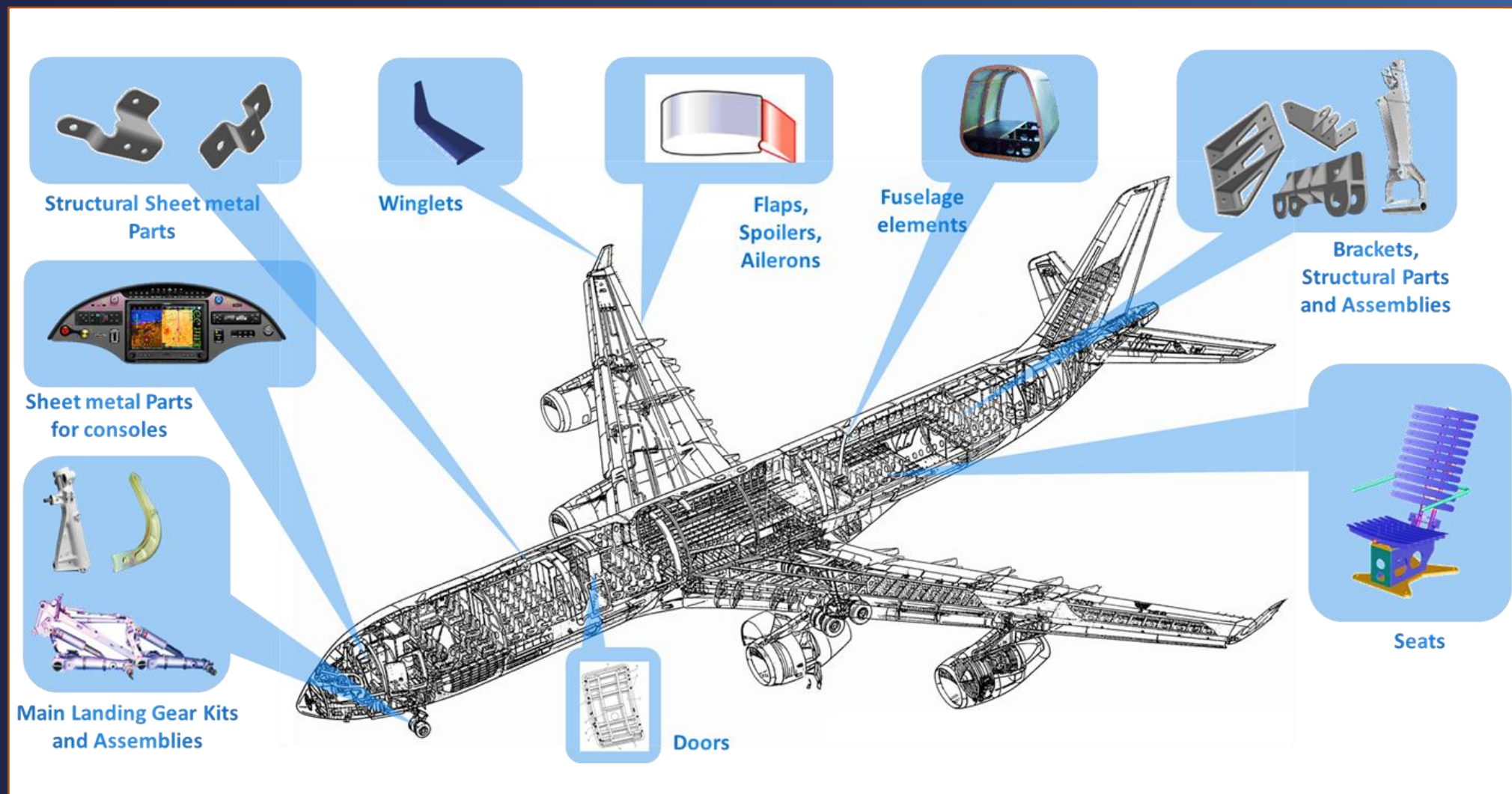


	Current Program	Current Rate per month	Planned Min/Max Rate per month	A/C st40* 2021	A/C st40* 2022	A/C st40* 2023	A/C st40* 2024
A320	DN	45	66 (Oct-2023)	488	596	731	Under investigation
A330	CP	2.2	2.8	22	25	31	30
A350XWB (St50)	V	5	6 (Jan-2023)	50	22	66	66

# Aeronautical Mechanical Parts



# Target Aviation product



# A320 and A330 Passenger to Freighter (P2F) Conversion



**3,000+ Parts**  
**Y2022: FA**  
**Y2023: MP**





**THANK YOU**