

Grand-Pro Introduction

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Grand-Pro Profile

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Grand-Pro SEA Strategy

➤ China Factory

➤ Vietnam Factory



- **Found:** March, 2010
- **Headquarters:** Changsha, Hunan, China
- **Factories:** Chenzhou, China & Haiphong, Vietnam
- **Office:** Shenzhen, China & Haiphong, Vietnam

◆ **Factories**

China Factory: Chenzhou, Hunan (2010)

Area : ~65,000 m², Staff 750+,

Vietnam Factory: Hai Phong (2022)

Area: 22,000 sqm, Staff 650+,

Annual turnover: \$55 Million (SN)



❖ Grand-Pro Vietnam



Address: Nam Ting Wu Industrial Zone, Sha Hai Economic Zone, Hai An County, **Hai Phong City**, Vietnam

Traffic: **10** minutes to Haiphong port, 5km
30 minutes to **Haiphong Airport**, 13km
2.5 Hrs to Ho Chi Minh City, 800nmi



◆ 智能机器人和吸尘器
Intelligent Robot & VC



- ◆ **KEY PRODUCTS:** 55% Robot + V.Cleaner, 35% Battery, 10% Antenna
- ◆ **MAJOR MARKET:** 60% for US, 25% for EMEA + UK, 15% for Asia
- ◆ **DESIGN CAPABILITY:** Both OEM and ODM; R&D team: China & Vietnam
- ◆ **PRODUCTION CAPACITY 2024:**

Factory China, 18 lines (6 Robots+ 9 battery + 3 Antenna)

Factory Vietnam, 6 lines (4 Robots+ 1 VC + 1 battery)

● Rechargeable Batteries
LiFePO4 Li-ion & Li-Po battery and BMS SYSTEM



NIMH HT and High Power Battery Series





■ Grand-Pro Vietnam

Factory X1 :

38 sets injection moldings

Back-Up 1#: **2** lines are ready for new business

Factory X2 :

- ✓ Warehouse, IQC room, office building #1 and #2, Lab
- ✓ workshop for: **3** main lines (Robot: 2, VC :1)
- ✓ PSI room, OQC area were ready for using.

Vertical-Integration

- Tooling modification
- Plastic Injection
- PCBA
- Battery
- Robot & Others

X1 & X2 Factory
(22,000 M2)

Plastic, PCBA, Battery, Robot VC (680 staff)



Plastic Injection



Hot Stamping



Dock Line



Robot Line



Robot Assembly Line



Tooling & Shelf



Tooling Repairing



SMT & PCBA



Battery Pack

- Vertical Integration for Effective Manufacturing

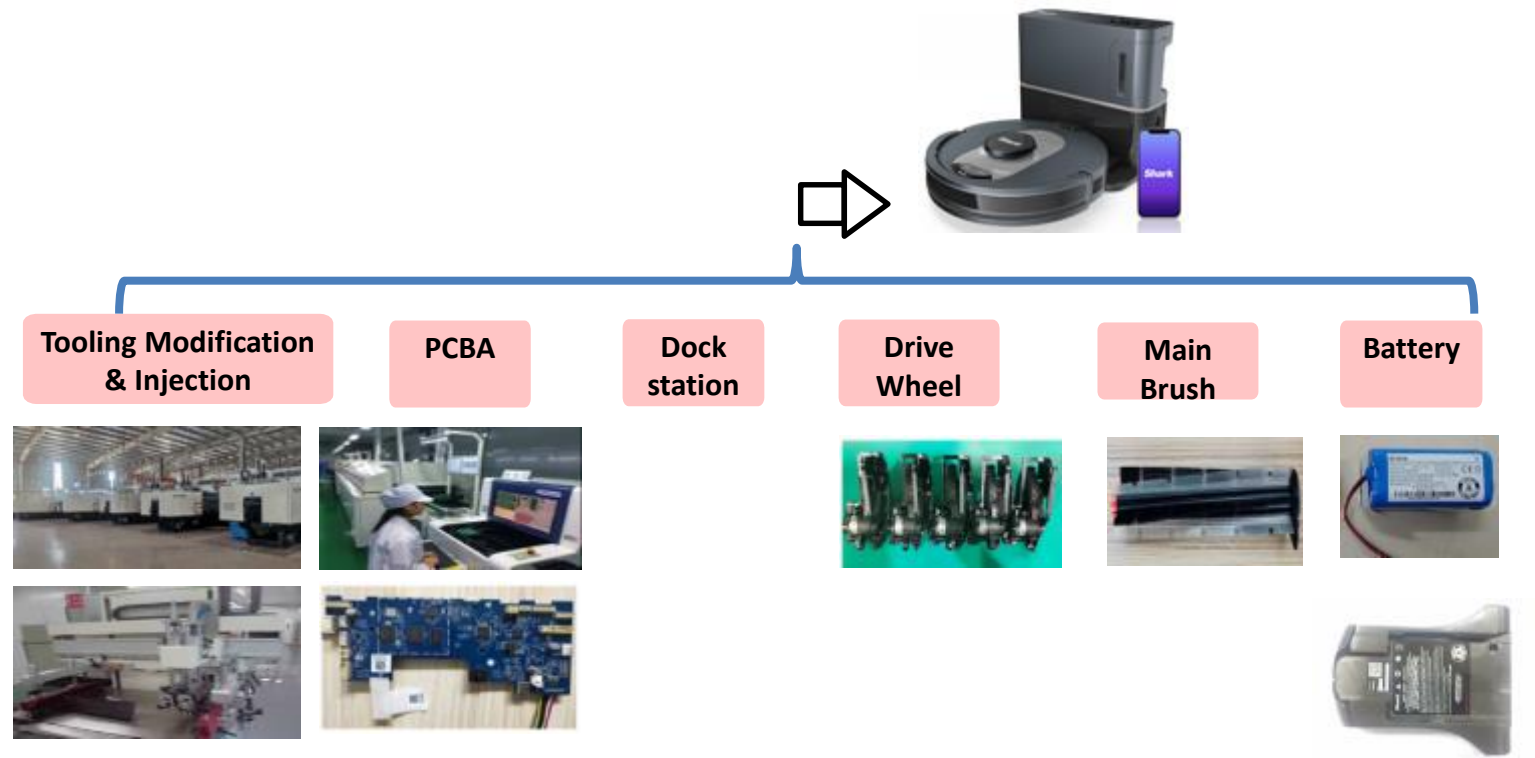
- ✓ Grand-Pro capability and resource:

- 12 years of Robot manufacturing experience

- Vertical-Integration production Chain

- The production scale can support flexible capacity, 2.8 M Million units/year

- ① 5S
- ② MMA
- ③ Vega audit
- ④ Forward process audit
- ⑤ Training (3 4 3)
- ⑥ Critical station focus
- ⑦ Safe launch
- ⑧ FAI
- ⑨ RCA
- ⑩ IPQC Check list



Core mission : To be most trustworthy
Achieve Value for our customer.



➤ **Awarded by customer & government**



◆ Certificates



CCC Certificated

ISO9001

ISO14001

SMETA

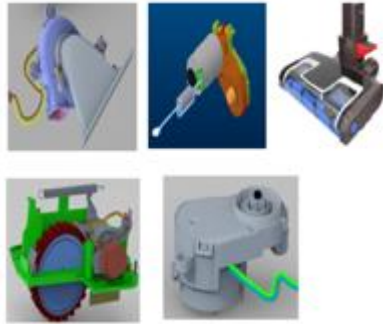
TUV Audit

Vietnam
ISO9001 & ISO14001

IML & Plastic Parts



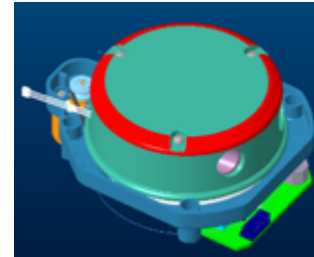
Transmission Components



PCBA



LDS



Antenna



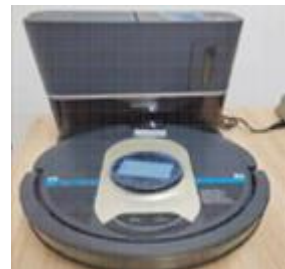
Water Clean Machine



Cargo Delivery Robot



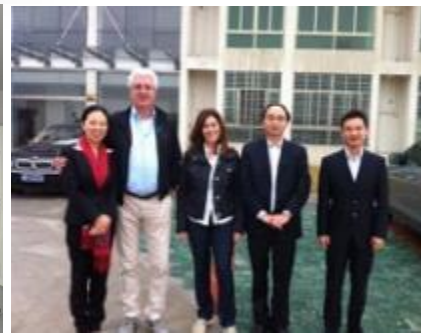
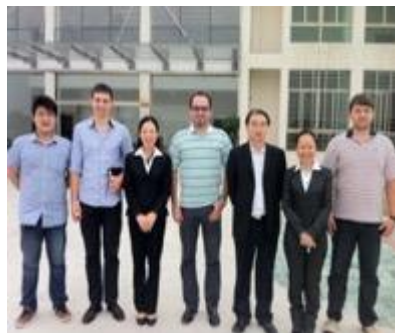
- ◆ **Robot manufacturing**
Started in **2012**;
Has **robot technology base** and it's accessories for **12 years**.



◆ Culture:

Achieve Value for our customer.
成就客户

Market Distribution:
USA, Europe, UK,
Southeast Asia.



Key Customers



Efficiency - Manufacturing Value

The cost can be controlled:

Continuous Product Innovation

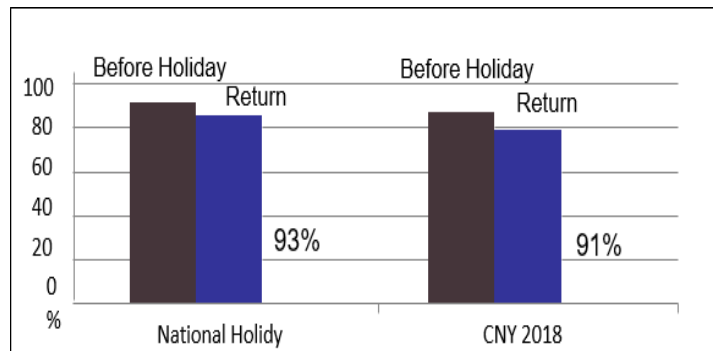
- We have **14** years of experience in the **design and manufacturing of electrical appliances** (Robot, vacuum cleaners), lamps and the matching battery packs; and more than **30** professional technical team has consistently focused on the power design of electrical appliances;
- Based on a team of around **80** R&D engineers, we provide services and products to our important customers, including not limited: Shark, Neato, Philips, etc.

Product Cost Reduction and Efficiency

- Battery, PCBA, Plastic Case internal supply, transfer together with the Robot, reduce the middle stages, remove the costs of packaging & transportation.
- We provide system solutions covering related applications, ensure product performance;
- Improve production efficiency & Administrative personnel integration to reduce costs

- Chenzhou, China

Labor Stable: Holiday Labor Return Rate



- Haiphong, Vietnam

- ✓ Labor: Have trained 650+ Skilled and trained young operators
- ✓ Has build local supply chain and partner source
- ✓ Acceptable Cost burden Made in Vietnam VS China

① Transportation

China to Haiphong: Flexible by **Truck or By Sea**

- **By Truck: 5** working days (Grand-Pro factory);
- **By Sea: 10~12** days from GP factory.

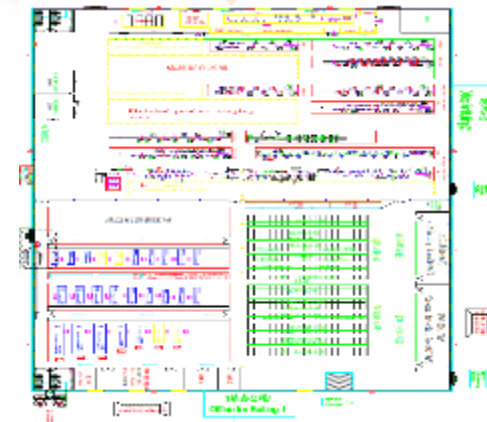
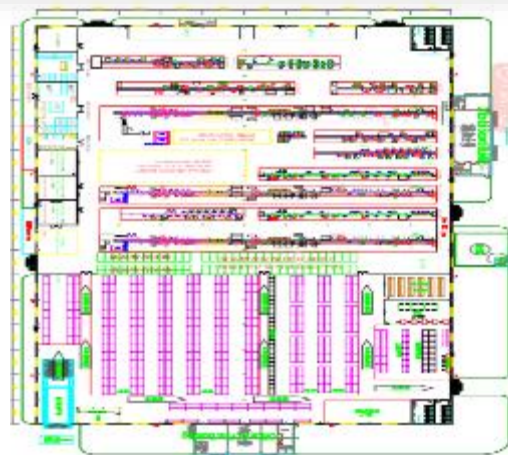
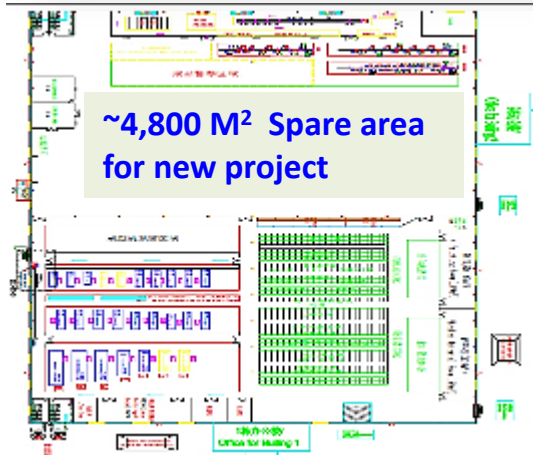
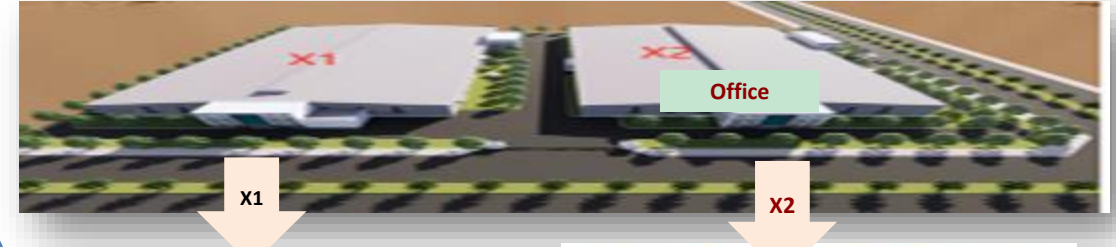
Haiphong Port: the largest port of North Vietnam



➤ SEA Capacity Plan

Current capacity: Daily **3,600** /day

Proposed capacity in Q3' 2024: **6,000** /Day



Plastic Injection +Battery Pack + SMT

L1+L2+ L3: Assembling lines

Spare area: Line 4 + Line 5

Item	Proposed capacity	Timeline
Factory Layout-Assembly workshop	10,320 M ²	2024/8
Factory Layout-Warehouse	6,640 M ²	2024/9
Factory lines	5 lines	2024/9

➤ Capacity Plan

We will have more capacity in Q4 2025:

Line	2024	Q3' 2024	Q4' 2024	Q4' 2025
Lines	3 + Spare area	3 + 2 = 5	6	12
Monthly Capacity	Current	120 K	150K	300 K

- **Short term plan:** Rent new Available WH : **5,000 m2**, 5 mins to GP VN
- **Long term plan:** New factory



Build new factory:

- **30,000 m2**,
- **8 mins away** from current factory



Thank You!

Your comments, suggestions and guidance are highly appreciated!