

DMF/ A report

3D Design

Product Inspection Standard Setting

Mould

FREE

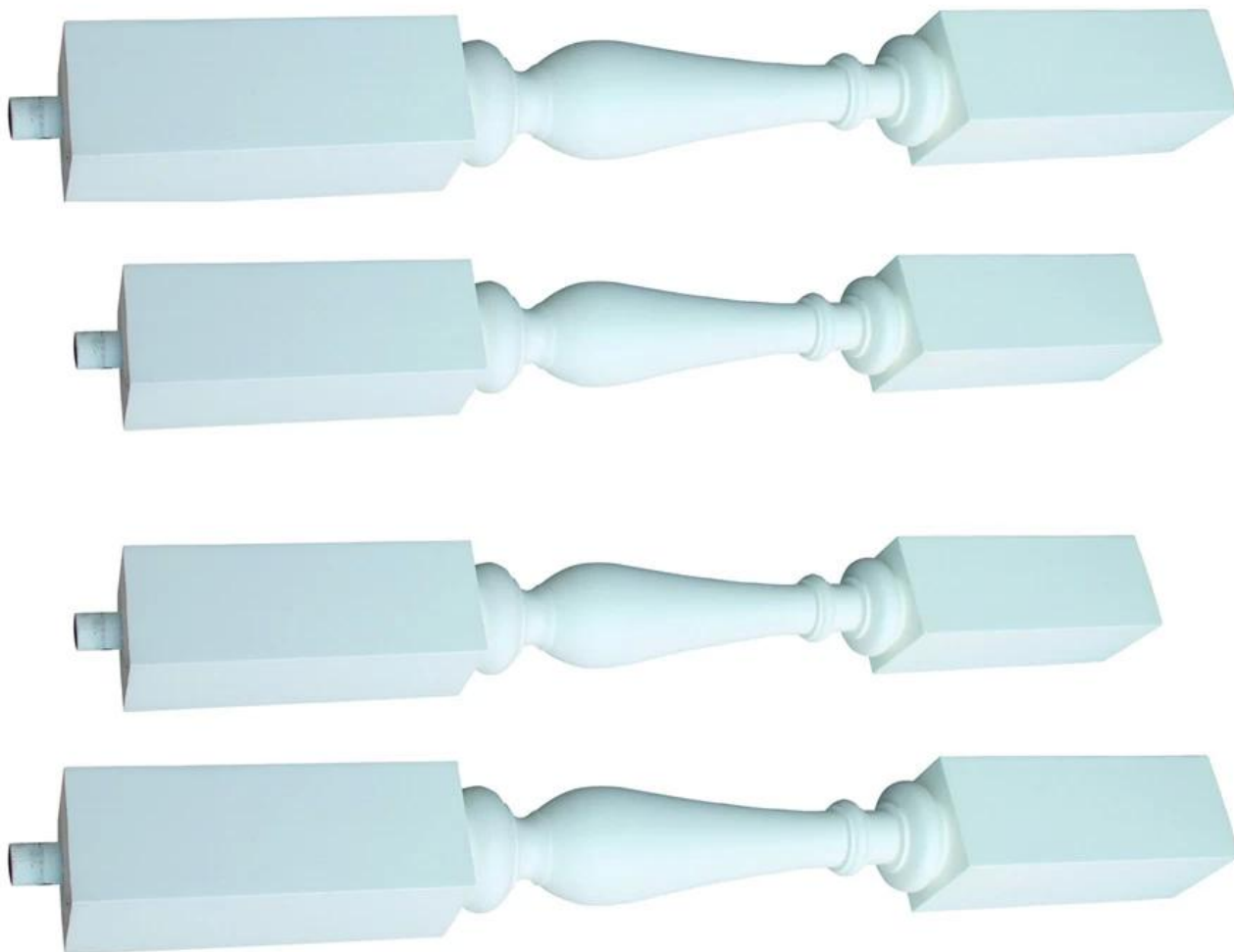
FINEHOPE

Free Product Inspection Standard Setting:
In addition to the usual quantification of product physical properties and appearance standards, we will add REACH, RoHS, FDA, CA-65, or CFC Free to the standards according to customer needs.

Free Mould Opening:
Large order quantity with mould cost free.

Free 3D Design:
Finehope help customer design the desired product or modify the design for free.

Free DFM/A Report:
Finehope will show details and solutions of manufacturability and assemblability through PPT to help customers reduce trouble.



MOQ:1000

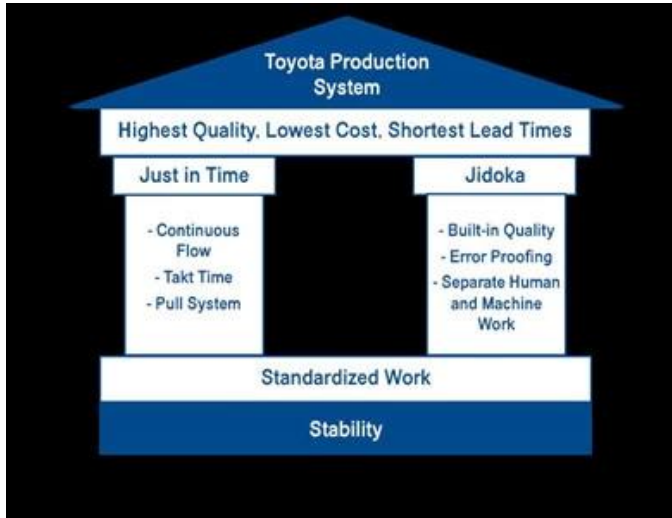
RoHS, REACH, EN71-3, CA65

[illegible]

Our Advantages



2002 年, 日本經濟團體聯合會 (Federation of Economic Organizations of Japan) 公佈了「2002 年日本企業競爭力調查」報告。報告指出, 日本企業在「品質、成本、交貨期」三大指標上表現優異, 這正是其競爭力的核心。報告強調, 日本企業的成功並非偶然, 而是其長期堅持「精益生產」(Lean Production) 的結果。精益生產是一種追求消除一切浪費、以最少的資源創造最大價值的生產方式。其核心思想是「Just in Time」(及時生產) 和「Jidoka」(自働化, 即帶人字旁的働)。精益生產的五大原則包括: 1. 確定價值 (Define Value); 2. 精簡流程 (Map the Value Stream); 3. 建立流動 (Create Flow); 4. 及時生產 (Make it Just in Time); 5. 追求完美 (Strive for Perfection)。精益生產不僅適用於製造業, 也廣泛應用於服務業。通過精益生產, 企業可以顯著降低庫存、縮短交貨期、提高品質, 從而提升客戶滿意度和企業競爭力。



精益生產的核心理念是「消除浪費」。在精益生產中, 浪費被定義為任何不增加產品價值的活动。浪費的七種類型包括: 1. 過量生產 (Overproduction); 2. 等待 (Waiting); 3. 搬運 (Transportation); 4. 庫存 (Inventory); 5. 動作 (Motion); 6. 加工 (Processing); 7. 缺陷 (Defects)。通過識別和消除這些浪費, 企業可以實現生產流程的持續改進 (Kaizen)。精益生產強調員工的參與和授權, 鼓勵員工發現問題並提出改進建議。這種「自下而上」的改進方式使得精益生產能夠不斷適應市場變化, 保持企業的競爭力。

精益生產的實施需要企業建立一套完整的管理体系。這包括: 1. 明確的戰略目標; 2. 完善的組織架構; 3. 嚴格的品質控制; 4. 高效的物流管理; 5. 持續的員工培訓。精益生產的成功關鍵在於「標準化」和「持續改進」。標準化確保了生產過程的一致性和可重複性, 而持續改進則確保了企業能夠不斷優化生產流程, 提高生產效率。精益生產不僅是一種生產方式, 更是一種管理哲學。它要求企業從內到外、從上到下地貫徹精益思想, 才能真正實現精益生產的目標。



設定 SMART 目標是成功的第一步。SMART 目標的特點是: 1. 具體 (Specific): 目標必須清晰明確, 不能含糊其辭。2. 可衡量 (Measurable): 目標必須可以用數據或具體的指標來衡量。3. 可達成 (Attainable): 目標必須是現實的, 具有挑戰性但並非不可能完成。4. 相關性 (Relevant): 目標必須與你的長期目標或使命相一致。5. 時間性 (Time-bound): 目標必須有明確的截止日期。

Famous customer

Cooperation experience

Engineering
Vehicle

BOYD
CORPORATION

TVH

AIXAM

Honeywell | STIGA CAT

Medical
Equipment

Hill-Rom

INVACARE
Yes, you can.

MAQUET
GETINGE GROUP

DrPosture

Ki Mobility

Baby
Supplies

Bumbo Nuby

bugaboo

chicco

Hatch
Baby

GRACO

Fitness
Equipment

STAR TRAC
expect different.

BOWFLEX

H&B
BUILDING PRODUCTS

ergoDRIVEN
All your environmental challenges

NUVA

Other

PANDORA
UNFORGETTABLE MOMENTS

CubeFit

Knoll

Customer list

1. What are the main products of the company?

The company is a leading manufacturer of automotive components, specializing in the production of engine parts, transmission parts, and other mechanical components. The company has a long history of cooperation with major automotive manufacturers, including CAT, FIAT, TVH, STIGA, and others. The company's products are used in a wide range of vehicles, from commercial trucks to passenger cars. The company's main products are engine parts, transmission parts, and other mechanical components.

2. What are the main markets of the company?

- 1) The company's main markets are in the automotive industry, particularly in the production of engine parts, transmission parts, and other mechanical components.
- 2) The company's main markets are in the automotive industry, particularly in the production of engine parts, transmission parts, and other mechanical components.
- 3) The company's main markets are in the automotive industry, particularly in the production of engine parts, transmission parts, and other mechanical components.
- 4) The company's main markets are in the automotive industry, particularly in the production of engine parts, transmission parts, and other mechanical components.
- 5) The company's main markets are in the automotive industry, particularly in the production of engine parts, transmission parts, and other mechanical components.
- 6) The company's main markets are in the automotive industry, particularly in the production of engine parts, transmission parts, and other mechanical components.
- 7) The company's main markets are in the automotive industry, particularly in the production of engine parts, transmission parts, and other mechanical components.

3. What are the main products of the company?

- 1) The company's main products are engine parts, transmission parts, and other mechanical components.
- 2) The company's main products are engine parts, transmission parts, and other mechanical components.
- 3) The company's main products are engine parts, transmission parts, and other mechanical components.
- 4) The company's main products are engine parts, transmission parts, and other mechanical components.

»»» About us







Our Certification



公司荣获 2019-2020 年度 厦门市成长型中小微企业

公司于 2019 年 12 月 11 日荣获 2019-2020 年度 厦门市成长型中小微企业 称号。该称号由厦门市工业和信息化局、厦门市中小企业发展促进会联合颁发。公司作为高新技术企业，在技术创新、产品研发、市场拓展等方面取得了显著成就，符合成长型中小微企业的评选标准。

公司荣获 2020-2022 年度 厦门市专精特新中小企业

公司于 2020 年 12 月 11 日荣获 2020-2022 年度 厦门市专精特新中小企业 称号。该称号由厦门市工业和信息化局、厦门市中小企业发展促进会联合颁发。公司作为高新技术企业，在技术创新、产品研发、市场拓展等方面取得了显著成就，符合专精特新中小企业的评选标准。

公司荣获 2019-2021 年度 厦门市科技小巨人领军企业

公司于 2019 年 12 月 11 日荣获 2019-2021 年度 厦门市科技小巨人领军企业 称号。该称号由厦门市科学技术局、厦门市中小企业发展促进会联合颁发。公司作为高新技术企业，在技术创新、产品研发、市场拓展等方面取得了显著成就，符合科技小巨人领军企业的评选标准。



2019-2020 年度厦门市成长型中小微企业

2020-2022 年度厦门市专精特新中小企业

厦门市科技小巨人领军企业

2018 年度厦门市成长型中小微企业
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2027 年度厦门市成长型中小微企业
2028 年度厦门市成长型中小微企业
2029 年度厦门市成长型中小微企业
2030 年度厦门市成长型中小微企业

2019-2020 年度厦门市成长型中小微企业
2020-2022 年度厦门市专精特新中小企业
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2028 年度厦门市成长型中小微企业
2029 年度厦门市成长型中小微企业
2030 年度厦门市成长型中小微企业



福建省排污许可证

Verified Supplier Certificate

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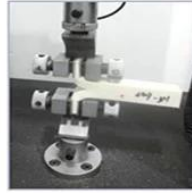
Quality Assurance



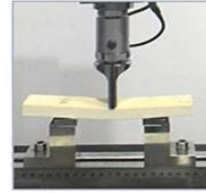
UNIVERSAL TESTING MACHINE(UTM)



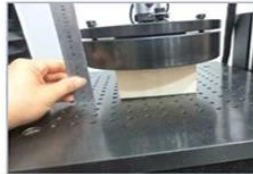
Tensile Test



Tear Resistance Test

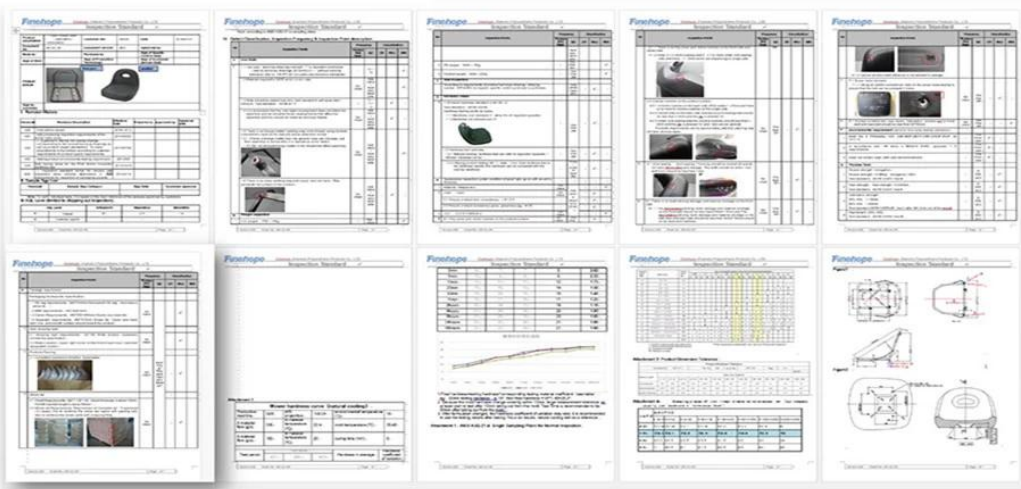


Compressive Strength



Indentation Force Deflection

INSPECTION STANDARD



MATERIAL PERFORMANCE TEST REPORT



Customer			
Location	New Zealand		
Customer Code	G1019		
Risk Assessment			
New:	Site ☐	Technology ☐	Process ☐
Other Risks	☐		

Project			
Finehope Contact	Wendy Yang		
Part No.			
Part Name	G1019Y04		
Change Level/Date			
User Plant(s)	Finehope		

Core Team Members	Company/Title	Phone/Fax/E-Mail
Tiger Xu	G.M.	
Yibin Lim	Vice G.M.	
Cindy Wu	Sales Manager	cindy@finehope.com
Liangquan Wan	Project Manager	
Wendy Yang	Sales	wendy@finehope.com

Build Level	Material Required Date	Quantity	No. Concurrent	
			SRCs	Majors
Product Design and Development	21-Jun-21	10		
Product and Process Validation	25-Jun-21	15		

APQP Deliverable	Finehope APQP Reference Only	G Y R	Project Need Date	Supplier Timing Date	Actual Closure Date	Supplier Lead Resp Initials	Finehope Acceptance Complete	Remarks or Assistance Required
AIAG APQP Phase 2 - Product Design and Development								
1. Project Timeline (Synchronized w/Production Time Plan)	2030	G	20-Jun-21	21-Jun-21	21-Jun-21	22-Jun-21	23-Jun-21	
2. Customer Inputs / Requirements	2030	G	23-Jun-21	24-Jun-21	24-Jun-21	25-Jun-21	26-Jun-21	
3. Warranty & Quality Mitigation Plan	2030	G	24-Jun-21	25-Jun-21	25-Jun-21	26-Jun-21	27-Jun-21	
4. Customer Specific Requirements	2030	G	25-Jun-21	26-Jun-21	26-Jun-21	27-Jun-21	28-Jun-21	
5. Design FMEA	2080	G	26-Jun-21	27-Jun-21	27-Jun-21	28-Jun-21	29-Jun-21	
6. Preliminary Bill of Materials (BOM)	2030	G	27-Jun-21	28-Jun-21	28-Jun-21	29-Jun-21	30-Jun-21	
7. Prototype Control Plans	2110	G	28-Jun-21	29-Jun-21	29-Jun-21	30-Jun-21	1-Jul-21	
8. Prototype Builds	2110	G	29-Jun-21	30-Jun-21	30-Jun-21	1-Jul-21	2-Jul-21	
9. Design Verification Plan & Report (DVP&R)	2120	G	30-Jun-21	1-Jul-21	1-Jul-21	2-Jul-21	3-Jul-21	
10. Design / Process Review	2130	G	1-Jul-21	2-Jul-21	2-Jul-21	3-Jul-21	4-Jul-21	
11. Team Feasibility Commitment	2130	G	2-Jul-21	3-Jul-21	3-Jul-21	4-Jul-21	5-Jul-21	
12. APQP Status Sub-Supplier	2130	G	3-Jul-21	4-Jul-21	4-Jul-21	5-Jul-21	6-Jul-21	
13. Production Drawing & Specifications	2220	G	4-Jul-21	5-Jul-21	5-Jul-21	6-Jul-21	7-Jul-21	
14. Subcontractor Purchase Orders (Customer Tooling)	2220	G	5-Jul-21	6-Jul-21	6-Jul-21	7-Jul-21	8-Jul-21	
15. Facilities, Equipment, Tools and Gages	2260	G	6-Jul-21	7-Jul-21	7-Jul-21	8-Jul-21	9-Jul-21	
AIAG APQP Phase 3 - Process Design and Development								
16. Product/Process and Quality System Review	3030	G	9-Jul-21	10-Jul-21	10-Jul-21	10-Jul-21	11-Jul-21	
17. Manufacturing Process Flow Chart	3040	G	11-Jul-21	12-Jul-21	12-Jul-21	12-Jul-21	13-Jul-21	
18. Process FMEA	3100	G	13-Jul-21	14-Jul-21	14-Jul-21	14-Jul-21	15-Jul-21	
19. Pre-Launch Control Plan	3110	G	15-Jul-21	16-Jul-21	16-Jul-21	16-Jul-21	17-Jul-21	
20. Process Work Instructions	3120	G	17-Jul-21	18-Jul-21	18-Jul-21	18-Jul-21	19-Jul-21	
21. Measurement Systems Evaluation	3130	G	19-Jul-21	20-Jul-21	20-Jul-21	20-Jul-21	21-Jul-21	
22. Packaging Specifications & Approvals	3160	G	21-Jul-21	22-Jul-21	22-Jul-21	22-Jul-21	23-Jul-21	
23. Manufacturing Team Training	3170	G	23-Jul-21	24-Jul-21	24-Jul-21	24-Jul-21	25-Jul-21	
AIAG APQP Phase 4 - Product and Process Validation								
24. Subcontractor PPAP Approval	4005	G	9-Jul-21	10-Jul-21	10-Jul-21	10-Jul-21	11-Jul-21	
25. Production Control Plan	4008	G	11-Jul-21	12-Jul-21	12-Jul-21	12-Jul-21	13-Jul-21	
26. Production Readiness Review (PRR)	4009	G	13-Jul-21	14-Jul-21	14-Jul-21	14-Jul-21	15-Jul-21	
27. Production Trial Run (PTR)	4010	G	15-Jul-21	16-Jul-21	16-Jul-21	16-Jul-21	17-Jul-21	
28. Process Capability Studies	4030	G	17-Jul-21	18-Jul-21	18-Jul-21	18-Jul-21	19-Jul-21	
29. Production Validation Plan & Report (PV&R)	4090	G	19-Jul-21	20-Jul-21	20-Jul-21	20-Jul-21	21-Jul-21	
30. Production Part Approval (PPAP)	4110	G	21-Jul-21	22-Jul-21	22-Jul-21	22-Jul-21	23-Jul-21	
AIAG APQP Phase 5 - Feedback, Assessment and Corrective Action								
31. Initial Production Shipment	5005	G	28-Jul-21	30-Jul-21	30-Jul-21	30-Jul-21	31-Jul-21	
32. Production Ramp-up Plan	5005	G	31-Jul-21	2-Aug-21	2-Aug-21	2-Aug-21	3-Aug-21	
33. Full Production Date	5005	G	5-Aug-21	7-Aug-21	7-Aug-21	7-Aug-21	8-Aug-21	
34. Conduct Lessons Learned	5005	G	8-Aug-21	10-Aug-21	10-Aug-21	10-Aug-21	11-Aug-21	

Design Failure Mode and Effects Analysis

(Design FMEA)

FMEA No.:
DFMEA-001

Page: page 1, totally 3 pages

Made: Xiaodong Qiu

FMEA Date: Nov.10th.2015

Product Name: Injection moulding

Procedure responsible dept: Production Dept

Model year/vehicle types: CRV

Soybean Milk Maker

Important date: Nov.10th.2015

People participated: Develop dept:GaoLin Wei

Sales:Haiyan Wu

PC:Jiannan Yan

Technology Dept:Jianyu Zhou

Purchaser:Yuanyuan Gou

Production dept:Shuwen Dong

QC:Bingxiang Zheng

procedure function requirements	Potential failure mode	Potential effects analysis	severity (S)	grade	potential causes/mechanism of failure	frequency (O)	Current prevention process control	Current detection process control	detection (D)	RPN	recommended measures	Responsibility and target completion date	Action Taken	severity (S)	frequency (O)	difficult to check (D)	RPN
scaphus	size changes of handle	handle cover fall off	6	A	PP size change	6	By adjusting the product of the injection molding process, and measure or test the clasp of product size	measure and test product size	3	108	Add the number of button bit in handle design, in order to keep the connection strength	Xiaodong Qiu 2015/08/25	By adjusting the product of the injection molding process, and measure or test product size	6	1	1	6
scaphus	warping of scaphus handle	Poor appearance break	4	C	high handle wall	6	Add the stiffener to handle wall to prevent deformation	measure and test product size	2	48	If this problem appears, make improvement by adding the stiffener	Xiaodong Qiu 2015/09/30	Add the stiffener to handle wall to prevent deformation	4	2	1	8
scaphus	Deformation of cup-mouth	Micro switch without power	8	A	PP material deformation, Resulting in a perpendicular direction to connect the cup and handle inward deformation, So that both sides of the bit, the micro switch column opposite sink, and	3	Adjust the injection molding process, to prevent extrusion	measure and test cup-mouth size	3	72	in the cup packing control the direction of the lateral dimension of no force, stipulate the way of packing	Xiaodong Qiu 2015/09/10	stipulate the cup packing control the direction of the lateral dimension of no force, stipulate the way of packing	8	1	3	24

H-R-P-001-1

Process Failure Mode and Effects Analysis

(PFMEA)

潜在失效模式和后果分析

FMEA No.FMEA20150325-01

Page 3

Maker:Wenhong-Huang

FMEA Date (Original):2015.03.25

Item:Welding Improvement

Process Responsibilities: Production welding group

Model year/project

Key Dates

Item	Potential failure mode	Potential consequences of failure modes	Severity	Grade	Potential causes of failure	Occurrence degree	Current process control and prevention	Current process control detection	Detection rate	RPN	Suggest measures	Responsibility and target completion date	Measure results	Severity	Incidence rate	Detection degree	RPN
Request	Request	Request	Request	Request	Request	Request	Request	Request	Request	Request	Request	Request	Request	Request	Request	Request	Request
Clamping is not in place	Clamping is not in place	Welding error, leak welding, affect the assembly or use function	8	A	● Staff negligence ● Future for bad	4	● Make the operation standard book ● Make maintenance standards, regular maintenance	● Visual inspection ● Finished 100% full inspection	6	144	● Pre-service training of staff ● Regular maintenance			6	3	4	72
Clamping required is in place, no missing or welding loaded	Clamping required is in place, no missing or welding loaded	Affect product strength or influence the assembly	8	A	● Staff negligence ● Future for bad ● Future inaccurate	4	● Make the operation standard book ● Make maintenance standards, regular maintenance ● Regular checking of future	Visual inspection	6	192	● Pre-service training of staff ● Regular maintenance ● Make inspection checklist for future			8	3	4	96
Attachmate missing	Attachmate missing	Affect product strength or influence the assembly	8	A	Staff negligence	3	Make the operation standard book	Visual inspection	4	96	Final inspection personnel do 100% full inspection for each bead with man			8	2	2	32
Attachmate error	Attachmate error	Influence assembly	7	A	No mistake proofing future	3	Make the operation standard book	Visual inspection	6	126	● Increase the mistake proofing devices ● Inspection for final inspection tools			7	2	4	56
False welding	False welding	Lack of strength, affect the use of function	9	A	Current, voltage, welding angle, speed setting is not reasonable	4	● Welding process guidance ● Condition confirmation check ● Confirm the failure test on a regular basis	Destructive testing	8	288	After the procedure is set up to confirm the processing conditions, the execution and marking of the failure test is performed			9	3	4	108

Production Device

KRAUSS MAFFEI

Finehope has successively introduced many of the world's most advanced German KraussMaffei high-pressure injection machines since 2010.



Reaction Injection Molding (RIM)
High Pressure Machine
KRAUSS MAFFEI
Made in Germany!



Self-invented fully automatic production line

Finehope has independently developed a number of fully automatic P-U injection production lines since 2010. These production lines reduce production costs and meet customer delivery requirements.



Welding Robots



Since 2016, Finehope has continued to purchase welding robots and automatic fixture turntables for welding metal parts. The independent processing of accessories saves the waiting time and procurement cost of outsourcing processing.

CNC Machine

Finehope has continued to purchase CNC equipment since 2016. CNC (Computer Numerically Controlled) machining is a manufacturing process in which pre-programmed computer software dictates the movement of factory tools and machinery. Using this type of machine versus manual machining can result in improved accuracy, increased production speeds, enhanced safety, increased efficiency and most importantly, help customers save costs and improve product quality.



Mould Release Agent Painting Robot



Since 2019, Finehope has purchased robots for spraying water-based release agents to improve the working environment, improve spraying quality and material utilization, and reduce labor costs.

3D printer

Finehope started to purchase 3D printers in 2015. 3D printing can realize rapid proofing of new product prototypes and templates for resin molds, and can also be used for faster and cheaper small batch production.





Social Responsibility

- **Audited by Sedex**

(Supplier business ethics information
exchange)

Labor standard · health and safety · Environmental
protection · Business ethics practice

- **Public-spirited**



Voluntary tree planting after Super Typhoon Meranti in 2016

A VALUE-BASED COMPANY

CUSTOMER FIRST

TEAMWORK

EMBRACE CHANGES

PASSION

INTEGRITY

COMMITMENT