

FINEHOPE

FREE

DMF/ A report

3D Design

Mould

Product Inspection Standard Setting

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.



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- 圖樣規格: 國際標準化組織 ISO
- 圖樣尺寸: 671*546*66mm
- 圖樣類型: 標準圖樣
- 圖樣數量: 100-800 圖樣 / 冊 3
- 圖樣: 標準圖樣 圖樣
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2002 年，日本经济新闻 对日本 100 家大企业进行了调查，调查主题是“你认为 2002 年最重要的经营课题是什么？”调查结果显示，排在第一位的是“提高生产率”，其次是“提高产品质量”，第三位是“降低生产成本”。

从调查结果可以看出，日本企业最关注的是生产效率和产品质量。这与日本企业的传统经营理念是一致的。日本企业一直强调“工匠精神”，追求产品的完美和生产的效率。

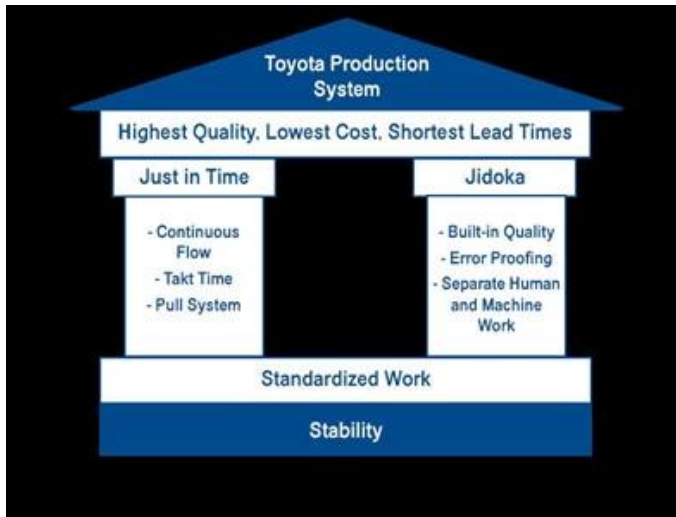
在提高生产率方面，日本企业采取了许多措施，如精益生产、自动化生产等。在提高产品质量方面，日本企业实施了严格的质量管理体系，如全面质量管理（TQM）。

降低生产成本也是日本企业关注的重点。通过优化生产流程、提高资源利用率，日本企业有效地降低了生产成本，提高了竞争力。

日本企业之所以如此重视生产效率和产品质量，这与日本企业的文化背景密切相关。日本企业深受儒家文化的影响，强调集体主义和精益求精的精神。

此外，日本企业所处的市场环境也促使它们不断提高生产效率和产品质量。日本是一个高度发达的工业国家，企业之间的竞争非常激烈。为了在竞争中脱颖而出，企业必须不断提升自身的核心竞争力。

总的来说，日本企业通过不断优化生产流程、提高产品质量、降低生产成本，实现了生产效率和产品质量的双重提升。这为其他国家的企业提供了宝贵的经验和借鉴。



精益生产（Lean Production）是一种旨在减少浪费、提高效率的生产方式。它起源于日本丰田汽车公司，现已成为全球制造业的标杆。

精益生产的核心思想是“在正确的时间，以正确的方式，生产正确数量的产品”。为了实现这一目标，企业需要不断优化生产流程，消除一切不必要的浪费。

精益生产的主要工具包括：5S（整理、整顿、清扫、清洁、素养）、看板管理、准时制生产（JIT）等。这些工具帮助企业实现了生产过程的透明化和可控化。

通过实施精益生产，企业可以显著降低库存、缩短交货周期、提高产品质量。这不仅增强了企业的市场竞争力，也为客户提供了更好的服务体验。

精益生产不仅是一种生产方式，更是一种企业文化。它要求企业全体员工共同参与，持续改进。只有建立起这种文化，精益生产才能真正发挥作用。

在当今这个竞争激烈的市场环境中，企业必须不断学习和创新。精益生产为企业提供了一个有效的框架，帮助它们不断提升管理水平，实现可持续发展。

Famous customer

Cooperation experience

Engineering
Vehicle



Medical
Equipment



Baby
Supplies



Fitness
Equipment



Other



Customer list

1. What are the main products of the customer?

The customer is a large company that produces various types of vehicles, including trucks, buses, and cars. The customer is also a leading manufacturer of medical equipment, including hospital beds, wheelchairs, and other medical devices. The customer is also a leading manufacturer of baby supplies, including strollers, car seats, and baby furniture. The customer is also a leading manufacturer of fitness equipment, including treadmills, elliptical machines, and other exercise equipment. The customer is also a leading manufacturer of other products, including home appliances, office furniture, and other consumer goods.

2. What are the main products of the customer?

- 1) The customer is a large company that produces various types of vehicles, including trucks, buses, and cars.
- 2) The customer is also a leading manufacturer of medical equipment, including hospital beds, wheelchairs, and other medical devices.
- 3) The customer is also a leading manufacturer of baby supplies, including strollers, car seats, and baby furniture.
- 4) The customer is also a leading manufacturer of fitness equipment, including treadmills, elliptical machines, and other exercise equipment.
- 5) The customer is also a leading manufacturer of other products, including home appliances, office furniture, and other consumer goods.
- 6) The customer is also a leading manufacturer of other products, including home appliances, office furniture, and other consumer goods.
- 7) The customer is also a leading manufacturer of other products, including home appliances, office furniture, and other consumer goods.

3. What are the main products of the customer?

- 1) The customer is a large company that produces various types of vehicles, including trucks, buses, and cars.
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- 3) The customer is also a leading manufacturer of baby supplies, including strollers, car seats, and baby furniture.
- 4) The customer is also a leading manufacturer of fitness equipment, including treadmills, elliptical machines, and other exercise equipment.

>>> 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 15 日荣获 2019-2020 年度 厦门市成长型中小微企业 称号。该称号是厦门市工业和信息化局根据《厦门市成长型中小微企业认定办法》的规定，对公司进行认定后颁发的。该称号旨在表彰在厦门市成长型中小微企业中表现突出的企业，鼓励企业创新发展，提高核心竞争力。

公司荣获 2020-2022 年度 厦门市专精特新中小企业

公司于 2020 年 8 月 10 日荣获 2020-2022 年度 厦门市专精特新中小企业 称号。该称号是厦门市工业和信息化局根据《厦门市专精特新中小企业认定办法》的规定，对公司进行认定后颁发的。该称号旨在表彰在厦门市专精特新中小企业中表现突出的企业，鼓励企业创新发展，提高核心竞争力。

公司荣获 2019-2022 年度 厦门市科技小巨人领军企业

公司于 2019 年 12 月 15 日荣获 2019-2022 年度 厦门市科技小巨人领军企业 称号。该称号是厦门市科学技术局根据《厦门市科技小巨人领军企业认定办法》的规定，对公司进行认定后颁发的。该称号旨在表彰在厦门市科技小巨人领军企业中表现突出的企业，鼓励企业创新发展，提高核心竞争力。



本公司 2019 年度 成长型中小微企业

本公司 2020-2022 年度 专精特新中小企业

本公司 2020 年度 科技小巨人领军企业

2018 年度 成长型中小微企业
2019 年度 成长型中小微企业
2020 年度 成长型中小微企业
2021 年度 成长型中小微企业
2022 年度 成长型中小微企业
2023 年度 成长型中小微企业
2024 年度 成长型中小微企业
2025 年度 成长型中小微企业
2026 年度 成长型中小微企业
2027 年度 成长型中小微企业
2028 年度 成长型中小微企业
2029 年度 成长型中小微企业
2030 年度 成长型中小微企业

2020 年度 专精特新中小企业
2021 年度 专精特新中小企业
2022 年度 专精特新中小企业
2023 年度 专精特新中小企业
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2029 年度 专精特新中小企业
2030 年度 专精特新中小企业

2020 年度 科技小巨人领军企业
2021 年度 科技小巨人领军企业
2022 年度 科技小巨人领军企业
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2028 年度 科技小巨人领军企业
2029 年度 科技小巨人领军企业
2030 年度 科技小巨人领军企业



福建省排污许可证

Verified Supplier Certificate

[illegible][illegible]



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

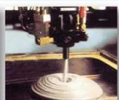
Key Dates

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	Size/NG	Size/NG	6	B	● Staff negligence ● Failure for bad ● Failure for bad	4	● Make the operation standard book ● Make maintenance standards, regular maintenance ● Make the operation standard book	● Visual inspection ● Finished 100% full inspection ● Visual inspection	6	144	● Pre-service training of staff ● Regular maintenance ● Make inspection checklist for future			6	3	4	72
Clamping is not in place	Welding error, leak welding, affect the assembly or use function	Welding error, leak welding, affect the assembly or use function	8	A	● Staff negligence ● Failure for bad ● Failure inaccurate ● Failure 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	Affect product strength or influence the assembly	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	Influence assembly	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	Lack of strength, affect the use of function	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.



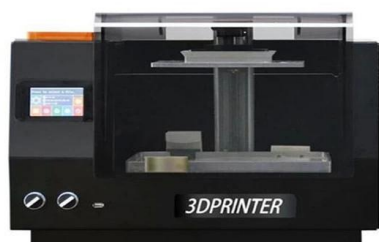
Mould Release Agent Painting Robot



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