

**Finehope**

This product is customized for the customer, not for sale



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# Finehope

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forklift



forklift



excavator



sweeper



Tower crane  
construction  
equipment



crane

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本公司於 2003 年 通過 ISO 9001 國際標準認證

**IATF16949 國際認證：**

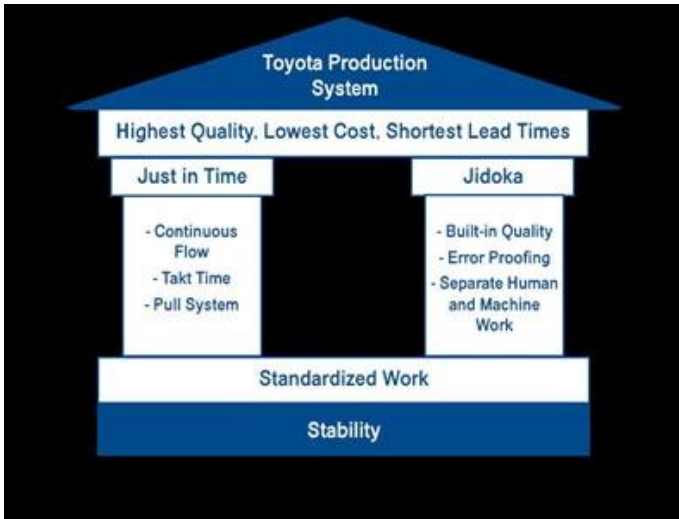
本公司於 2021 年 通過 IATF16949 國際標準認證。該認證是針對汽車行業的質量管理體系標準，要求比 ISO 9001 更嚴格。通過此認證，表明我們的生產過程和產品質量符合國際汽車行業的嚴格要求。此外，我們還於 2007 年 通過了 ISO 14001 環境管理體系認證，確保我們的生產活動符合環保要求。

## Our Advantages



本公司於 2002 年 通過 ISO 9001 國際標準認證。這標誌著我們在質量管理方面的卓越成就。我們的生產過程受到嚴格監控，確保每一批產品都符合國際標準。此外，我們還擁有先進的生產設備和技術，這使我們能夠生產出高品質、高性能的工業產品。我們的研發團隊不斷進行技術創新，以滿足客戶不斷變化的需求。通過這些優勢，我們能夠為客戶提供優質的生產服務和產品。

我們的生產設備先進，技術力量雄厚。我們擁有一流的生產線和先進的工藝技術，這使我們能夠生產出高品質、高性能的工業產品。此外，我們還擁有豐富的生產經驗和專業技術人才，這使我們能夠為客戶提供優質的生產服務和產品。我們的生產過程受到嚴格監控，確保每一批產品都符合國際標準。通過這些優勢，我們能夠為客戶提供優質的生產服務和產品。此外，我們還擁有先進的生產設備和技術，這使我們能夠生產出高品質、高性能的工業產品。



Toyota Production System (TPS) is a manufacturing system that aims to maximize efficiency and quality. It is based on the principles of Just in Time (JIT) and Jidoka. JIT focuses on reducing inventory and waste, while Jidoka emphasizes quality control and error proofing. Standardized Work is a key component of TPS, ensuring consistency in production processes. Stability is the foundation of TPS, providing a reliable and predictable manufacturing environment.

The S.M.A.R.T. goal formula is a framework for setting effective goals. It consists of five criteria: Specific, Measurable, Attainable, Relevant, and Time-bound. Each criterion provides a clear guideline for how to define and achieve a goal. For example, a specific goal would be 'Increase sales by 10% in the next quarter', while a time-bound goal would be 'Complete the project by the end of the month'.

## Famous customer <<<

Cooperation experience

<p><b>Engineering Vehicle</b></p> <p><b>BOYD CORPORATION</b> <b>TVH</b> <b>AIXAM</b></p> <p><b>Honeywell</b> <b>TIGA</b> <b>CAT</b></p>	<p><b>Medical Equipment</b></p> <p><b>Hill-Rom</b> <b>INVACARE</b> <b>MAQUET GETINGE GROUP</b></p> <p><b>DrPosture</b> <b>Ki Mobility</b></p>
<p><b>Baby Supplies</b></p> <p><b>Bumbo Nuby</b> <b>bugaboo</b> <b>chicco</b></p> <p><b>Hatch Baby</b> <b>GRACO</b></p>	<p><b>Fitness Equipment</b></p> <p><b>STAR TRAC</b> <b>BOWFLEX</b></p> <p><b>IB&amp;G BUILDING PRODUCTS</b> <b>ergoDRIVEN</b> <b>NUVA</b></p> <p><b>Other</b></p> <p><b>PANDORA</b> <b>CubeFit</b> <b>Knoll</b></p>

Customer list and cooperation experience

### 1. What are the main reasons for customer cooperation?

The main reasons for customer cooperation are the high quality and reliability of the products, the excellent customer service, and the competitive prices. The cooperation with CAT is a key factor in the success of the company.

FIAT, TVH, STIGA ၀၀ ၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀ ၀၀၀ 12 ၀၀၀ ၀၀ ၀၀၀၀၀ ၀၀၀၀၀ ၀၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀၀၀ ၀၀၀၀၀၀၀၀၀၀၀ ၀၀ ၀၀၀၀ ၀၀၀၀ ၀၀ ၀၀၀ ၀၀၀၀၀၀၀၀၀ ၀၀၀ ၀၀၀၀၀ ၀၀ ၀၀၀၀ ၀၀၀၀၀၀၀၀၀ ၀၀ ၀၀-၀၀၀၀၀ ၀၀၀၀ ၀၀၀၀၀၀ ၀၀၀၀ ၀၀၀၀

**2. ၀၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀ ၀၀ ၀၀၀၀ ၀၀၀၀၀ ၀၀၀?**

- 1) ၀၀၀၀၀၀၀ ၀၀၀၀၀၀၀၀ ၀၀၀၀၀၀၀, ၀၀၀၀၀ ၀၀၀၀၀၀၀, ၀၀၀၀၀ ၀၀၀၀၀၀ ၀၀ ၀၀၀ ၀၀၀၀၀
- 2) ၀၀၀၀ ၀၀၀၀၀၀၀, ၀၀၀၀ ၀၀ ၀၀၀၀၀ ၀၀၀၀၀၀, ၀၀၀၀၀၀၀၀ ၀၀ ၀၀၀ ၀၀၀၀၀၀ ၀၀၀၀၀၀
- 3) ၀၀၀၀၀၀၀ ၀၀၀ ၀၀၀၀၀၀၀ ၀၀၀၀၀၀၀၀ ၀၀၀၀၀ ၀၀ ၀၀၀ ၀၀၀၀၀၀၀၀၀ ၀၀၀၀ ၀၀၀၀၀ ၀၀ ၀၀ ၀၀၀၀ ၀၀ ၀၀ ၀၀၀၀ ၀၀ ၀၀ ၀၀၀၀၀၀၀၀ ၀၀၀၀၀၀ ၀၀ ၀၀၀ ၀၀၀၀၀
- 4) ၀၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀၀၀
- 5) ၀၀၀၀၀၀၀၀ ၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀၀၀၀၀ ၀၀၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀၀၀ ၀၀၀ ၀၀၀ ၀၀၀၀၀
- 6) ၀၀၀၀ ၀၀၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀၀၀၀၀ ၀၀၀ ၀၀၀၀၀၀ ၀၀၀၀၀ ၀၀၀
- 7) ၀၀၀၀၀၀၀ ၀၀၀ ၀၀၀ ၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀၀၀၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀၀၀၀၀ ၀၀၀၀၀၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀ ၀၀၀ ၀၀ ၀၀၀၀ ၀၀၀၀၀ ၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀၀၀

**3. ၀၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀ ၀၀၀၀၀၀၀၀ ၀၀ ၀၀၀ ၀၀၀၀ ၀၀၀၀ ၀၀၀?**

- 1) ၀၀၀၀၀၀၀၀ ၀၀၀၀၀၀: ၀၀၀၀၀ ၀၀၀၀၀၀၀၀ ၀၀၀၀၀ (၀၀၀၀၀၀၀၀၀)၀
- 2) ၀၀၀၀၀၀၀ ၀၀ ၀၀၀ ၀၀၀၀၀၀၀၀၀၀၀၀ ၀၀၀ ၀၀၀၀၀၀၀ ၀၀ ၀၀၀၀ ၀၀၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀၀၀၀ ၀၀၀
- 3) ၀၀၀၀၀၀၀၀၀၀ ၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀ ၀၀၀၀၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀ ၀၀
- 4) ၀၀၀၀၀၀၀ ၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀၀ ၀၀၀၀၀, ၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀ ၀၀၀၀၀ ၀၀
- 5) ၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀ ၀၀ ၀၀ ၀၀၀၀၀၀၀ ၀၀၀၀၀၀ ၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀ ၀၀ ၀၀၀၀၀၀၀၀

**4. ၀၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀ ၀၀၀ ၀၀၀၀ ၀၀၀၀ ၀၀?**

- 1) ၀၀၀၀ ၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀ ၀၀၀၀ ၀၀၀၀၀၀ ၀၀၀၀၀၀၀ ၀၀
- 2) ၀ ၀၀၀၀ ၀၀၀၀
- 3) ၀၀၀၀ ၀၀ ၀၀၀၀၀ ၀၀၀၀၀ ၀၀ ၀၀၀ ၀၀၀၀၀ ၀၀ ၀ ၀၀၀၀၀၀၀၀ ၀၀
- 4) ၀၀၀ ၀၀ ၀ ၀၀၀၀ ၀၀ ၀၀၀၀

**5. ၀၀၀ ၀၀၀၀၀၀၀ ၀၀ ၀၀၀၀၀၀၀၀ ၀၀၀ ၀၀?**

၀၀, ၀၀၀၀၀၀၀၀၀၀ ၀၀၀၀, ၀၀ ၀၀၀၀၀ ၀၀၀, ၀၀၀၀၀၀၀ ၀၀၀၀၀ ၀၀ ၀၀၀၀ ၀၀၀၀ ၀၀၀ ၀၀၀၀၀







## 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 月荣获“厦门市成长型中小微企业”称号，这是对公司近年来在技术创新、市场开拓、品牌建设等方面取得显著成就的肯定。公司将继续秉承“创新驱动、质量为本”的经营理念，不断提升核心竞争力，为行业发展做出更大贡献。

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 月荣获“厦门市专精特新中小企业”称号，这是对公司技术创新能力、专业化水平、精细化管理等方面的高度认可。公司将持续加大研发投入，深化产学研合作，不断提升自主创新能力，打造具有核心竞争力的专精特新企业。

公司荣获 2019 年度 厦门市科技小巨人领军企业

2019 年，公司荣获“厦门市科技小巨人领军企业”称号，这是对公司科技创新能力、市场竞争力等方面的高度肯定。公司将继续坚持创新驱动发展战略，加大科技投入，提升自主创新能力，打造具有国际竞争力的科技领军企业。



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

厦门市科技小巨人领军企业

2018年，公司荣获“厦门市成长型中小微企业”称号。2020-2022年度，公司荣获“厦门市专精特新中小企业”称号。2021年，公司荣获“厦门市科技小巨人领军企业”称号。公司始终坚持以技术创新为驱动，不断提升核心竞争力，为行业发展做出积极贡献。

公司通过了SAQM两化融合管理体系评定，证书编号为：SAQM-2021-001。该体系旨在提升企业两化融合水平，增强企业核心竞争力。公司高度重视两化融合工作，通过持续投入和不断优化，实现了生产过程的智能化、数字化，提高了生产效率和产品质量。

公司荣获“厦门市科技小巨人领军企业”称号，这是对我公司在科技创新领域取得成就的肯定。我们将继续加大研发投入，突破关键技术，推动产业升级，为厦门市乃至全国新材料产业的发展做出更大贡献。



福建省排污许可证

Verified Supplier Certificate

2007 年, 中国共产党第十七次全国代表大会在北京举行。大会高举中国特色社会主义伟大旗帜, 为全面建设小康社会, 开创中国特色社会主义事业新局面而奋斗。大会通过的《中国共产党章程 (修正案)》, 是中国共产党在全面建设小康社会、开创中国特色社会主义事业新局面的关键时期, 召开的一次十分重要的代表大会。大会通过的《中国共产党章程 (修正案)》, 是中国共产党在全面建设小康社会、开创中国特色社会主义事业新局面的关键时期, 召开的一次十分重要的代表大会。大会通过的《中国共产党章程 (修正案)》, 是中国共产党在全面建设小康社会、开创中国特色社会主义事业新局面的关键时期, 召开的一次十分重要的代表大会。

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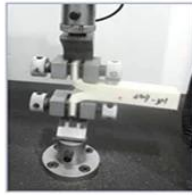
# Quality Assurance



UNIVERSAL TESTING MACHINE(UTM)



Tensile Test



Tear Resistance Test



Compressive Strength



Indentation Force Deflection

## INSPECTION STANDARD

## MATERIAL PERFORMANCE TEST REPORT

**Finehope**  
**Test Report** No. 00201457201 Date: 20140723 Page 1/4  
 Customer: CUSTOMER SERVICE DEPARTMENT

The following samples were submitted and identified by/on behalf of the client as:

Sample Description: UHMW and MHD (underdevelopment)  
 Material No.: 1  
 Other info.: 1  
 Sample Processing Date: 20140724  
 Working Process: 20140723

**Test Method**

- 001 ASTM D2574-2011 Test of Density, Test Agency
- 002 ASTM D2574-2011 Test of Density, Test Agency
- 003 ASTM D2574-2011 Test of Density, Test Agency
- 004 ASTM D2574-2011 Test of Density, Test Agency
- 005 ASTM D2574-2011 Test of Density, Test Agency
- 006 ASTM D2574-2011 Test of Density, Test Agency
- 007 ASTM D2574-2011 Test of Density, Test Agency
- 008 ASTM D2574-2011 Test of Density, Test Agency
- 009 ASTM D2574-2011 Test of Density, Test Agency
- 010 ASTM D2574-2011 Test of Density, Test Agency
- 011 ASTM D2574-2011 Test of Density, Test Agency
- 012 ASTM D2574-2011 Test of Density, Test Agency
- 013 ASTM D2574-2011 Test of Density, Test Agency
- 014 ASTM D2574-2011 Test of Density, Test Agency
- 015 ASTM D2574-2011 Test of Density, Test Agency
- 016 ASTM D2574-2011 Test of Density, Test Agency
- 017 ASTM D2574-2011 Test of Density, Test Agency
- 018 ASTM D2574-2011 Test of Density, Test Agency
- 019 ASTM D2574-2011 Test of Density, Test Agency
- 020 ASTM D2574-2011 Test of Density, Test Agency

**Finehope**  
**Test Report** No. 00201457201 Date: 20140723 Page 2/4  
 Customer: CUSTOMER SERVICE DEPARTMENT

**Test Result**

No.	Test Item	Unit	Test Standard	Customer Requirement	Customer Sample group			Customer Sample Unit		
					1	2	3	1	2	3
1	Density	g/cm <sup>3</sup>	ASTM D2574	0.93	0.93	0.93	0.93	0.93	0.93	0.93
2	Hardness	HR	ASTM D2574	80	80	80	80	80	80	80
3	Strength	MPa	ASTM D2574	10	10	10	10	10	10	10
4	Impact	kJ/m <sup>2</sup>	ASTM D2574	10	10	10	10	10	10	10
5	Modulus	GPa	ASTM D2574	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	Creep	%	ASTM D2574	0.5	0.5	0.5	0.5	0.5	0.5	0.5
7	Relaxation	%	ASTM D2574	0.5	0.5	0.5	0.5	0.5	0.5	0.5

**FIG:**

- In order to make the strength of two steel rods can be compared, set of the test specimen in the same direction about stress and load axis in one side to do the tensile strength test comparison.
- For the specific grade value in the above test result, it is the value of specimen with size in one side, and the actual value of the whole sample.

**Finehope**  
**Test Report** No. 00201457201 Date: 20140723 Page 3/4  
 Customer: CUSTOMER SERVICE DEPARTMENT

**Sketch Picture**

1. This picture is only used with the Serial Report from Finehope.



Customer	
Location	New Zealand
Customer Code	G1019
Risk Assessment	
New:	Site <input type="checkbox"/> Technology <input type="checkbox"/> Process <input type="checkbox"/>
Other Risks	<input type="checkbox"/>

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.	
Yubin Lim	Vice G.M.	
Cindy Wu	Sales Manager	<a href="mailto:cindy@finehope.com">cindy@finehope.com</a>
Liangquan Wan	Project Manager	
Wendy Yang	Sales	<a href="mailto:wendy@finehope.com">wendy@finehope.com</a>

Build Level	Material Required Date	Quantity	No. Concurrent	
			SRs	Majors
Product Design and Develop	21-Jun-21	10		
Product and Process Validat	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 Inits	Finehope Acceptance Complete	Remarks or Assistance Required
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	20-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

Product Name: Injection moulding

Procedure responsible dept: Production Dept

Model year/vehicle types: CRV

Soybean Milk Maker

Important date: Nov.10th.2015

FMEA 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/mechanisms of failure	frequency (O)	Current prevention process control	Current detection process control	detection (D)	RPN	recommended measures	Responsibility and target completion date	action results				
													severity (S)	frequency (O)	difficult to check (D)	RPN	
scyphus	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
scyphus	warpage of scyphus 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
scyphus	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 球, 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 use egg cell methods to put the packing which do not squeeze each other	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

Maint:Wenhong-Huang

FMEA Date (Original):2015.03.25

Item:Welding Improvement

Process Responsibilities: Production welding group

Model year/project

Key Dates

Item 项目	Potential failure mode 潜在失效模式	Potential consequences of failure modes 失效的后果/潜在失效影响	Severity 严重度	Grade 等级	Potential causes of failure 失效的潜在原因	Occurrence degree 发生度	Current process control and prevention 现行过程控制/预防	Current process control detection 现行过程控制/检测	Detection rate 检测率	RPN	Suggest measures 建议措施	Responsibility and target completion date 责任及目标完成日期	Measure results/测量结果			
													Measures and effective date 措施及有效日期	Severity 严重度	Incidence rate 发生率	Detection degree 可检测度
	Clamping is not in place 夹具不在位	Welding error, leak, welding deviation, affect the assembly or use function 焊接错误、漏焊、焊接偏差, 影响装配或功能使用	8	B	● Staff negligence 人员疏忽 ● Failure for bad 夹具不在位	4	● Make the operation standard book 制定作业标准书 ● Make maintenance standards, regular maintenance 制定保养标准, 定期保养, 维护 ● Regular checking of fixture 夹具定期检查	● Visual inspection 目视检测 ● Finished 100% full inspection 完成100%全检	6	144	● Pre-service training of staff 岗前培训 ● Regular maintenance 定期保养维护		6	3	4	72
	Clamping (clamping required is in place, no missing or wrong loaded) 夹具不在位, 夹具装错, 夹具装反	Welding error, leak, welding deviation, affect the assembly or use function 焊接错误、漏焊、焊接偏差, 影响装配或功能使用	8	A	● Staff negligence 人员疏忽 ● Failure for bad 夹具不在位 ● Failure inaccurate 夹具定位不准确	4	● Make the operation standard book 制定作业标准书 ● Make maintenance standards, regular maintenance 制定保养标准, 定期保养, 维护 ● Regular checking of fixture 夹具定期检查	Visual inspection 目视检测	6	192	● Pre-service training of staff 岗前培训 ● Regular maintenance 定期保养维护 ● Make inspection checklist for fixture 夹具检查清单		8	3	4	96
	Attachments missing 附件缺失	Affect product strength or influence the assembly 影响产品强度或影响装配	8	A	Staff negligence 作业人员疏忽	3	Make the operation standard book 制定作业标准书	Visual inspection 目视检测	4	96	Final inspection personnel do 100% full inspection for each bead with man 每个工人100%全检, 双人		8	2	2	32
	Attachment error 附件错误	Influence assembly 影响装配	7	A	No mistake proofing fixture 夹具无防错	3	Make the operation standard book 制定作业标准书	Visual inspection 目视检测	6	126	● Increase the mistake proofing devices 增加防错装置 ● Inspection for final inspection tools 夹具最后检查		7	2	4	56
	False welding 假焊	Lack of strength, affect the use of function 强度不足, 影响使用功能	9	A	Current, voltage, welding angle, speed setting is not reasonable 电流、电压、焊接角度、速度设置不合理	4	● Welding process guidance making 制定焊接工艺指导书 ● Condition confirmation check 作业条件确认 ● Confirm the failure test on a regular basis 定期确认失效测试	Destructive testing 破坏性试验	8	288	After the procedure is set up to confirm the processing conditions, the execution and marking of the failure test is performed. 工序设置完成后确认加工条件		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

