

DMF/ A report

FREE

Mould

3D Design

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.



公司通过了 ISO9001 质量管理体系认证

交货期: 100% 现货

MOQ: 200

包装: 散装

付款方式: 电汇

语言: 中文

交货期: 现货 / 定制 30%, 定制 70%;

交货期: 定制 30%, 定制 70%;

交货期: 定制 30%, 定制 70%;

交货期: 定制 30%, 定制 70%;

交货期: 定制 30%, 定制 70%;



公司通过了 ISO9001 质量管理体系认证

交货期:

现货 / 定制 30%, 定制 70%;
交货期: 定制 30%, 定制 70%;
交货期: 定制 30%, 定制 70%;
交货期: 定制 30%, 定制 70%;
交货期: 定制 30%, 定制 70%;

Our Advantages



2002 年，日本政府正式提出“第四次工业革命”的概念，即通过引入人工智能、大数据、云计算等新一代信息技术，实现制造业的转型升级。这一战略旨在提升日本制造业的竞争力，应对全球化和贸易保护主义的挑战。

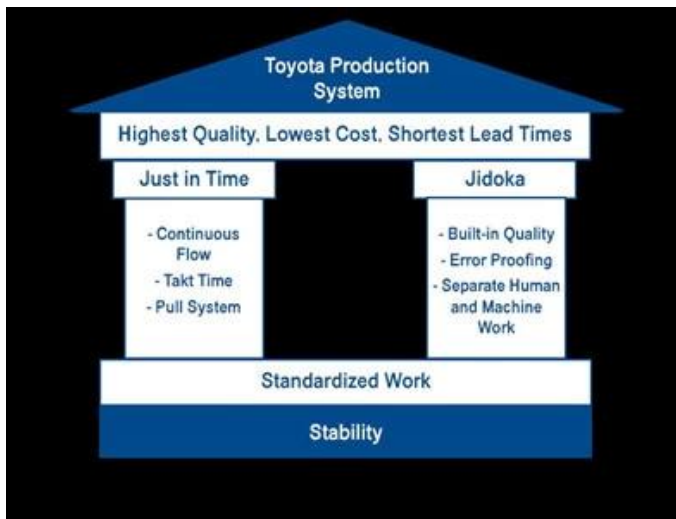
在实施过程中，日本政府采取了一系列措施，包括加大研发投入、推动产学研合作、培养高素质人才等。同时，企业也积极拥抱新技术，通过自动化改造和数字化转型，提高了生产效率和产品质量。

然而，日本制造业在转型升级过程中也面临一些挑战，如劳动力短缺、老龄化加剧、研发投入不足等。未来，日本需要进一步深化改革，加大创新力度，以实现制造业的高质量发展。

智能制造是制造业转型升级的关键。通过引入工业机器人、数控机床等先进设备，可以实现生产过程的自动化和智能化。这不仅提高了生产效率，还降低了人力成本，提升了产品质量。

此外，大数据和云计算技术的应用，使得企业能够实时监控生产过程，及时发现和解决问题。通过数据分析，企业还可以优化生产流程，降低能耗和物耗，实现绿色制造。

然而，智能制造的发展也带来了一些新的问题，如数据安全、隐私保护等。企业需要加强网络安全建设，确保生产数据的安全可靠。同时，政府也需要完善相关法律法规，为智能制造的发展提供有力的法律保障。



精益生产（Lean Production）是一种旨在减少浪费、提高效率的生产方式。它起源于丰田汽车公司，强调“Just in Time”和“Jidoka”原则。通过消除不必要的库存、缩短交货周期，企业可以降低运营成本，提高客户满意度。

精益生产的核心是“标准化工作”，这有助于确保生产过程的稳定性和可重复性。同时，通过持续改进（Kaizen），企业可以不断优化生产流程，提升产品质量。

然而，精益生产的实施需要企业具备较强的管理能力和员工素质。企业需要建立完善的培训体系，提高员工的技能水平。同时，政府也需要提供政策支持，鼓励企业采用精益生产方式。

在制定目标时，企业应遵循SMART原则，确保目标具有明确性、可衡量性、可实现性、相关性以及时限性。这有助于企业清晰地识别目标，并制定有效的实施计划。

例如，企业可以设定“在下一季度内，将生产线的良品率提高至99.5%”这样的SMART目标。通过分解任务、明确责任人，企业可以更有效地实现这一目标。

总之，SMART原则是企业制定目标的重要工具。通过科学合理地制定目标，企业可以更好地规划未来发展，提升核心竞争力。

Famous customer



Cooperation experience

<p>Engineering Vehicle</p>	<p>Medical Equipment</p>
<p>Baby Supplies</p>	<p>Fitness Equipment</p> <p>Other</p>

□□□□□□ □□□□□□

1. 此 客戶名單 有何 特點 呢?

客戶名單 既 多 且 廣 涵蓋 多個 行業 如 汽車 工業 醫療 設備 健身 器材 嬰兒 用品 等, 顯示 出 該 公司 具有 強大 的 市場 覆蓋 能力 及 廣泛 的 客戶 基礎, 此外 該 公司 與 多個 全球 知名 品牌 如 CAT, FIAT, TVH, STIGA 等 均有 合作 關係 顯示 出 該 公司 具有 豐富 的 合作 經驗 及 卓越 的 服務 質素 該 公司 亦 曾 與 多個 國際 知名 品牌 如 12 個 等 均有 合作 關係 顯示 出 該 公司 具有 卓越 的 服務 質素 及 豐富 的 合作 經驗

2. 該 客戶 名單 為 何 重要 呢?

- 1) 該 客戶 名單 為 該 公司 的 重要 資產, 顯示 出 該 公司 具有 強大 的 市場 覆蓋 能力
- 2) 該 客戶 名單 為 該 公司 的 重要 資源, 顯示 出 該 公司 具有 豐富 的 合作 經驗
- 3) 該 客戶 名單 為 該 公司 的 重要 競爭力, 顯示 出 該 公司 具有 卓越 的 服務 質素 及 豐富 的 合作 經驗
- 4) 該 客戶 名單 為 該 公司 的 重要 品牌 資產
- 5) 該 客戶 名單 為 該 公司 的 重要 市場 佔有 率, 顯示 出 該 公司 具有 卓越 的 服務 質素 及 豐富 的 合作 經驗
- 6) 該 客戶 名單 為 該 公司 的 重要 市場 佔有 率, 顯示 出 該 公司 具有 卓越 的 服務 質素 及 豐富 的 合作 經驗
- 7) 該 客戶 名單 為 該 公司 的 重要 市場 佔有 率, 顯示 出 該 公司 具有 卓越 的 服務 質素 及 豐富 的 合作 經驗

3. 該 客戶 名單 為 何 重要 呢?

- 1) 該 客戶 名單 為 該 公司 的 重要 資產: 該 客戶 名單 為 該 公司 的 重要 資產 (該 客戶 名單)
- 2) 該 客戶 名單 為 該 公司 的 重要 資源: 該 客戶 名單 為 該 公司 的 重要 資源 該 客戶 名單 為 該 公司 的 重要 資源
- 3) 該 客戶 名單 為 該 公司 的 重要 競爭力: 該 客戶 名單 為 該 公司 的 重要 競爭力 該 客戶 名單 為 該 公司 的 重要 競爭力
- 4) 該 客戶 名單 為 該 公司 的 重要 品牌 資產: 該 客戶 名單 為 該 公司 的 重要 品牌 資產 該 客戶 名單 為 該 公司 的 重要 品牌 資產



About us







TEAM
ACTIVITIES

Our Certification



公司自成立以来，始终秉承“以人为本、科技为先”的经营理念，不断提升企业核心竞争力，实现高质量发展。

公司自成立以来，始终秉承“以人为本、科技为先”的经营理念，不断提升企业核心竞争力，实现高质量发展。

公司自成立以来，始终秉承“以人为本、科技为先”的经营理念，不断提升企业核心竞争力，实现高质量发展。

2019年，公司荣获“厦门市成长型中小微企业”称号，这是对我公司近年来在技术创新、市场拓展等方面取得成绩的肯定。我们将继续加大研发投入，提升产品质量，为客户提供更优质的产品和服务。

2020年，公司荣获“厦门市专精特新中小企业”称号，这是对我公司在专业化、精细化、特色化、创新能力等方面取得突出成绩的肯定。我们将继续深耕专业领域，提升核心竞争力，实现高质量发展。

2019年，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、成果转化等方面取得突出成绩的肯定。我们将继续加大研发投入，提升创新能力，实现高质量发展。



公司荣获多项荣誉，体现了公司在技术创新、质量管理、安全生产等方面取得的卓越成就。

公司通过了ISO 9001质量管理体系认证、ISO 14001环境管理体系认证、ISO 45001职业健康安全管理体系认证，并获得了SAQM安全质量管理体系认证。

公司还获得了福建省高新技术企业、厦门市专精特新中小企业、厦门市科技小巨人领军企业等荣誉称号。

2018年，公司荣获福建省高新技术企业称号。2020年，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。这些荣誉的获得，充分体现了公司在技术创新、质量管理、安全生产等方面取得的卓越成就，也彰显了公司在行业内的领先地位和核心竞争力。

公司始终坚持以技术创新为驱动，不断提升产品质量和管理水平。通过引入先进的质量管理体系，公司实现了生产过程的标准化、规范化和精细化。同时，公司还高度重视安全生产，建立了完善的安全生产管理体系，确保了生产活动的安全、稳定和可持续发展。这些举措不仅提升了公司的综合竞争力，也为公司的长期发展奠定了坚实的基础。

未来，我们将继续秉承“创新驱动、质量为本、安全至上”的经营理念，不断提升技术创新能力，优化产品质量，强化安全生产管理，为客户提供更加优质、可靠的产品和服务。我们将以更加饱满的热情和更加坚定的信心，为实现公司的宏伟目标和推动行业高质量发展而努力奋斗。



公司还获得了福建省排污许可证，确保了生产活动的合法合规和环保达标。

此外，公司还获得了第三方机构颁发的供应商认证证书，进一步提升了公司的信誉和竞争力。

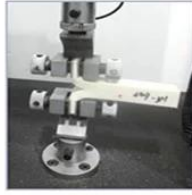
Quality Assurance



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 D2014-2011 Test of Density, Test Agency
- 002 ASTM D2014-2011 Test of Density, Test Agency
- 003 ASTM D2014-2011 Test of Density, Test Agency
- 004 ASTM D2014-2011 Test of Density, Test Agency
- 005 ASTM D2014-2011 Test of Density, Test Agency
- 006 ASTM D2014-2011 Test of Density, Test Agency
- 007 ASTM D2014-2011 Test of Density, Test Agency
- 008 ASTM D2014-2011 Test of Density, Test Agency
- 009 ASTM D2014-2011 Test of Density, Test Agency
- 010 ASTM D2014-2011 Test of Density, Test Agency
- 011 ASTM D2014-2011 Test of Density, Test Agency
- 012 ASTM D2014-2011 Test of Density, Test Agency
- 013 ASTM D2014-2011 Test of Density, Test Agency
- 014 ASTM D2014-2011 Test of Density, Test Agency
- 015 ASTM D2014-2011 Test of Density, Test Agency
- 016 ASTM D2014-2011 Test of Density, Test Agency
- 017 ASTM D2014-2011 Test of Density, Test Agency
- 018 ASTM D2014-2011 Test of Density, Test Agency
- 019 ASTM D2014-2011 Test of Density, Test Agency
- 020 ASTM D2014-2011 Test of Density, Test Agency
- 021 ASTM D2014-2011 Test of Density, Test Agency
- 022 ASTM D2014-2011 Test of Density, Test Agency
- 023 ASTM D2014-2011 Test of Density, Test Agency
- 024 ASTM D2014-2011 Test of Density, Test Agency
- 025 ASTM D2014-2011 Test of Density, Test Agency
- 026 ASTM D2014-2011 Test of Density, Test Agency
- 027 ASTM D2014-2011 Test of Density, Test Agency
- 028 ASTM D2014-2011 Test of Density, Test Agency
- 029 ASTM D2014-2011 Test of Density, Test Agency
- 030 ASTM D2014-2011 Test of Density, Test Agency
- 031 ASTM D2014-2011 Test of Density, Test Agency
- 032 ASTM D2014-2011 Test of Density, Test Agency
- 033 ASTM D2014-2011 Test of Density, Test Agency
- 034 ASTM D2014-2011 Test of Density, Test Agency
- 035 ASTM D2014-2011 Test of Density, Test Agency
- 036 ASTM D2014-2011 Test of Density, Test Agency
- 037 ASTM D2014-2011 Test of Density, Test Agency
- 038 ASTM D2014-2011 Test of Density, Test Agency
- 039 ASTM D2014-2011 Test of Density, Test Agency
- 040 ASTM D2014-2011 Test of Density, Test Agency
- 041 ASTM D2014-2011 Test of Density, Test Agency
- 042 ASTM D2014-2011 Test of Density, Test Agency
- 043 ASTM D2014-2011 Test of Density, Test Agency
- 044 ASTM D2014-2011 Test of Density, Test Agency
- 045 ASTM D2014-2011 Test of Density, Test Agency
- 046 ASTM D2014-2011 Test of Density, Test Agency
- 047 ASTM D2014-2011 Test of Density, Test Agency
- 048 ASTM D2014-2011 Test of Density, Test Agency
- 049 ASTM D2014-2011 Test of Density, Test Agency
- 050 ASTM D2014-2011 Test of Density, Test Agency
- 051 ASTM D2014-2011 Test of Density, Test Agency
- 052 ASTM D2014-2011 Test of Density, Test Agency
- 053 ASTM D2014-2011 Test of Density, Test Agency
- 054 ASTM D2014-2011 Test of Density, Test Agency
- 055 ASTM D2014-2011 Test of Density, Test Agency
- 056 ASTM D2014-2011 Test of Density, Test Agency
- 057 ASTM D2014-2011 Test of Density, Test Agency
- 058 ASTM D2014-2011 Test of Density, Test Agency
- 059 ASTM D2014-2011 Test of Density, Test Agency
- 060 ASTM D2014-2011 Test of Density, Test Agency
- 061 ASTM D2014-2011 Test of Density, Test Agency
- 062 ASTM D2014-2011 Test of Density, Test Agency
- 063 ASTM D2014-2011 Test of Density, Test Agency
- 064 ASTM D2014-2011 Test of Density, Test Agency
- 065 ASTM D2014-2011 Test of Density, Test Agency
- 066 ASTM D2014-2011 Test of Density, Test Agency
- 067 ASTM D2014-2011 Test of Density, Test Agency
- 068 ASTM D2014-2011 Test of Density, Test Agency
- 069 ASTM D2014-2011 Test of Density, Test Agency
- 070 ASTM D2014-2011 Test of Density, Test Agency
- 071 ASTM D2014-2011 Test of Density, Test Agency
- 072 ASTM D2014-2011 Test of Density, Test Agency
- 073 ASTM D2014-2011 Test of Density, Test Agency
- 074 ASTM D2014-2011 Test of Density, Test Agency
- 075 ASTM D2014-2011 Test of Density, Test Agency
- 076 ASTM D2014-2011 Test of Density, Test Agency
- 077 ASTM D2014-2011 Test of Density, Test Agency
- 078 ASTM D2014-2011 Test of Density, Test Agency
- 079 ASTM D2014-2011 Test of Density, Test Agency
- 080 ASTM D2014-2011 Test of Density, Test Agency
- 081 ASTM D2014-2011 Test of Density, Test Agency
- 082 ASTM D2014-2011 Test of Density, Test Agency
- 083 ASTM D2014-2011 Test of Density, Test Agency
- 084 ASTM D2014-2011 Test of Density, Test Agency
- 085 ASTM D2014-2011 Test of Density, Test Agency
- 086 ASTM D2014-2011 Test of Density, Test Agency
- 087 ASTM D2014-2011 Test of Density, Test Agency
- 088 ASTM D2014-2011 Test of Density, Test Agency
- 089 ASTM D2014-2011 Test of Density, Test Agency
- 090 ASTM D2014-2011 Test of Density, Test Agency
- 091 ASTM D2014-2011 Test of Density, Test Agency
- 092 ASTM D2014-2011 Test of Density, Test Agency
- 093 ASTM D2014-2011 Test of Density, Test Agency
- 094 ASTM D2014-2011 Test of Density, Test Agency
- 095 ASTM D2014-2011 Test of Density, Test Agency
- 096 ASTM D2014-2011 Test of Density, Test Agency
- 097 ASTM D2014-2011 Test of Density, Test Agency
- 098 ASTM D2014-2011 Test of Density, Test Agency
- 099 ASTM D2014-2011 Test of Density, Test Agency
- 100 ASTM D2014-2011 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 (pass)	Customer Sample (fail)
1	Thickness	mm	ASTM D2014-2011	1.5	1.5	1.5
2	Hardness	HRB	ASTM D2014-2011	50	50	50
3	Impact	J/m²	ASTM D2014-2011	100	100	100
4	Strength	MPa	ASTM D2014-2011	10	10	10
5	Modulus	GPa	ASTM D2014-2011	1.0	1.0	1.0
6	Resilience	J/m³	ASTM D2014-2011	1.0	1.0	1.0

FIG. 1. In order to make the strength of two steel rods can be compared, set of the test specimen in the same thickness (about 10mm) and test area in one side to do the tensile strength test comparison.
 2. 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

100 pictures in this report will be the same 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	cindy@finehope.com
Liangquan Wan	Project Manager	
Wendy Yang	Sales	wendy@finehope.com

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/潜在失效模式	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	SizeNG 尺寸NG		6	B	● Staff negligence 人员疏忽 ● Failure for bad 夹具不到位	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	● 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 工器具定期维护		6	3	4	72
Clamping (clamping required is in place, no missing or wrong loaded) 夹具不在位,无漏装/错装	Welding error, leak, welding deviation, affect the assembly or use function 焊接错误,漏焊,焊接偏差,影响装配或使用功能		8	A	● Staff negligence 人员疏忽 ● Failure for bad 夹具不到位 ● 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 夹具定期点检	Visual inspection 目视检测	6	192	● Pre-service training of staff 岗前培训 ● Regular maintenance 工器具定期维护 ● Make inspection checklist for fixture 夹具点检表		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 终检人员100%全检,并 增加目视检查		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 终检工具点检		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 制定焊接工艺指导书 ● Condition confirmation check 加工条件确认书 ● Confirm the failure test on a regular basis 定期开展失效试验	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		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



