

***Finehope***

This product is customized for  
the customer, not for sale



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本公司於 2003 年 通過 ISO 9001 國際標準認證

IATF16949 國際標準認證：

本公司於 2021 年 通過 IATF16949 國際標準認證，認證範圍包括：50 餘種 鑄造車輪 的生產過程，包括：鑄造、鑄造後處理、裝配、檢驗、包裝、發貨等過程。

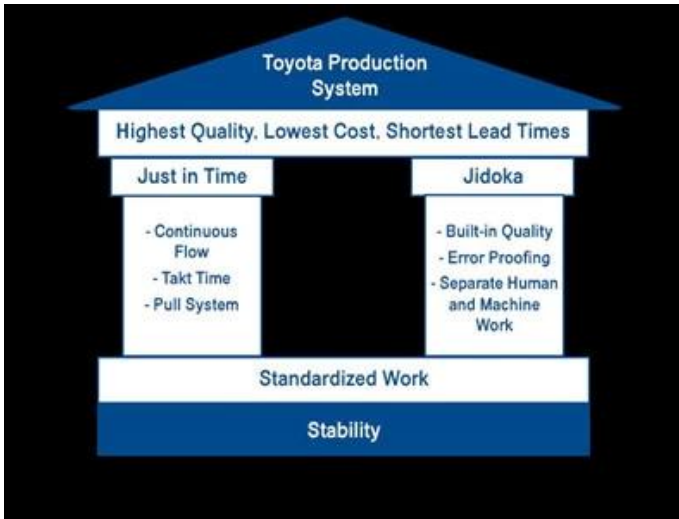
2007 年 通過 ISO 9001 國際標準認證，認證範圍包括：鑄造、鑄造後處理、裝配、檢驗、包裝、發貨等過程。2010 年 通過 ISO 14001 國際標準認證，認證範圍包括：鑄造、鑄造後處理、裝配、檢驗、包裝、發貨等過程。

## Our Advantages



本公司於 2002 年，通過 ISO 9001 國際標準認證，認證範圍包括：鑄造、鑄造後處理、裝配、檢驗、包裝、發貨等過程。2010 年 通過 ISO 14001 國際標準認證，認證範圍包括：鑄造、鑄造後處理、裝配、檢驗、包裝、發貨等過程。2015 年 通過 ISO 45001 國際標準認證，認證範圍包括：鑄造、鑄造後處理、裝配、檢驗、包裝、發貨等過程。

本公司於 2021 年 通過 IATF16949 國際標準認證，認證範圍包括：50 餘種 鑄造車輪 的生產過程，包括：鑄造、鑄造後處理、裝配、檢驗、包裝、發貨等過程。2007 年 通過 ISO 9001 國際標準認證，認證範圍包括：鑄造、鑄造後處理、裝配、檢驗、包裝、發貨等過程。2010 年 通過 ISO 14001 國際標準認證，認證範圍包括：鑄造、鑄造後處理、裝配、檢驗、包裝、發貨等過程。



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 that tasks are performed consistently. Stability is the foundation of the system, allowing for continuous improvement and adaptation to changing market conditions.

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

**Engineering Vehicle**

BOYD CORPORATION, TVH, AIXAM, Honeywell, TIGA, CAT

**Medical Equipment**

Hill-Rom, INVACARE, MAQUET GETINGE GROUP, DrPosture, Ki Mobility

**Baby Supplies**

Bumbo Nuby, bugaboo, chicco, Hatch Baby, GRACO

**Fitness Equipment**

STAR TRAC, BOWFLEX, I&B BUILDING PRODUCTS, ergoDRIVEN, nuva

**Other**

PANDORA, CubeFit, Knoll

Customer list

### 1. How do you cooperate with customers?

Cooperation with customers is essential for success. It involves understanding their needs, providing high-quality products, and offering excellent customer service. For example, we have worked with CAT, a leading manufacturer of heavy machinery, to develop innovative solutions that meet their specific requirements.









## 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、绿色发展”的理念，不断提升核心竞争力，为行业发展做出更大贡献。

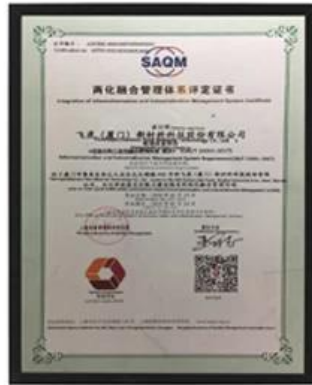
公司荣获 2020-2022 年度 厦门市专精特新中小企业

公司于 2020 年 12 月荣获“厦门市专精特新中小企业”称号，这是对公司专业化、精细化、特色化、创新能力显著提升的肯定。公司将持续加大研发投入，突破关键技术，提升产品质量，打造行业标杆企业。

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、品牌影响力等方面取得突出成就的肯定。公司将持续加大研发投入，提升自主创新能力，引领行业创新发展。





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，公司荣获福建省成长型中小微企业称号。2020年，公司荣获福建省专精特新中小企业称号。2021年，公司荣获福建省科技小巨人领军企业称号。2022年，公司荣获福建省专精特新中小企业称号。

公司通过了SAQM（安全质量管理体系）认证，符合ISO 9001和ISO 45001标准。认证范围包括：新材料的研发、生产和销售。

公司通过了安全生产标准化二级企业认证，符合《安全生产标准化基本规范》（GB/T 33000-2016）的要求。认证范围包括：新材料的生产。



福建省排污许可证

Verified Supplier Certificate

2007 年，中国共产党在全面建设小康社会的关键时期和中国特色社会主义伟大旗帜下，召开了党的十七大。大会高举中国特色社会主义伟大旗帜，深入贯彻落实科学发展观，对推进我国改革开放和社会主义现代化建设作出了重要部署。大会通过的《中国共产党第十七次全国代表大会报告》指出，科学发展观是马克思主义关于发展的世界观和方法论的集中体现，是坚持以人为本、全面协调可持续发展的基本要求。报告强调，要坚持以科学发展观统领经济社会发展全局，切实把科学发展观贯穿到现代化建设的各个方面，贯穿到改革开放和现代化建设的各个领域，贯穿到发展中国特色社会主义的全过程。报告还提出，要坚持以人为本，树立全面、协调、可持续的发展观，促进经济社会和人的全面发展。报告指出，科学发展观的第一要义是发展，核心是以人为本，基本要求是全面协调可持续，根本方法是统筹兼顾。报告强调，要坚持以科学发展观统领经济社会发展全局，切实把科学发展观贯穿到现代化建设的各个方面，贯穿到改革开放和现代化建设的各个领域，贯穿到发展中国特色社会主义的全过程。报告还提出，要坚持以人为本，树立全面、协调、可持续的发展观，促进经济社会和人的全面发展。报告指出，科学发展观的第一要义是发展，核心是以人为本，基本要求是全面协调可持续，根本方法是统筹兼顾。

2007 年，中国共产党在全面建设小康社会的关键时期和中国特色社会主义伟大旗帜下，召开了党的十七大。大会高举中国特色社会主义伟大旗帜，深入贯彻落实科学发展观，对推进我国改革开放和社会主义现代化建设作出了重要部署。大会通过的《中国共产党第十七次全国代表大会报告》指出，科学发展观是马克思主义关于发展的世界观和方法论的集中体现，是坚持以人为本、全面协调可持续发展的基本要求。报告强调，要坚持以科学发展观统领经济社会发展全局，切实把科学发展观贯穿到现代化建设的各个方面，贯穿到改革开放和现代化建设的各个领域，贯穿到发展中国特色社会主义的全过程。报告还提出，要坚持以人为本，树立全面、协调、可持续的发展观，促进经济社会和人的全面发展。报告指出，科学发展观的第一要义是发展，核心是以人为本，基本要求是全面协调可持续，根本方法是统筹兼顾。

# 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
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- 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, see the test specimen in the same thickness (about 10mm) and two rods 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 total 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	warping 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

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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 检测度
Clamping is not in place 夹紧不到位	SizeNG 尺寸NG		6	B	● Staff negligence 人员疏忽 ● Failure for bad 器具/物料不良	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) 夹紧(夹紧要求在位,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 器具/物料不良 ● Failure inaccurate 器具定位不准确	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 工装定期点检	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 工装点检清单		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 每粒人工100%全检,确认		8	2	2	32
Attachment error 附件错误	Influence assembly 影响装配		7	A	No mistake proofing fixture 无防错器具	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 工装点检		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



CUSTOMER FIRST

TEAMWORK

EMBRACE CHANGES

PASSION

INTEGRITY

COMMITMENT

