

***Finehope***

This product is customized for  
the customer, not for sale



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本公司 Finehope 通過 ISO 9001 2003 及 IATF16949 認證。

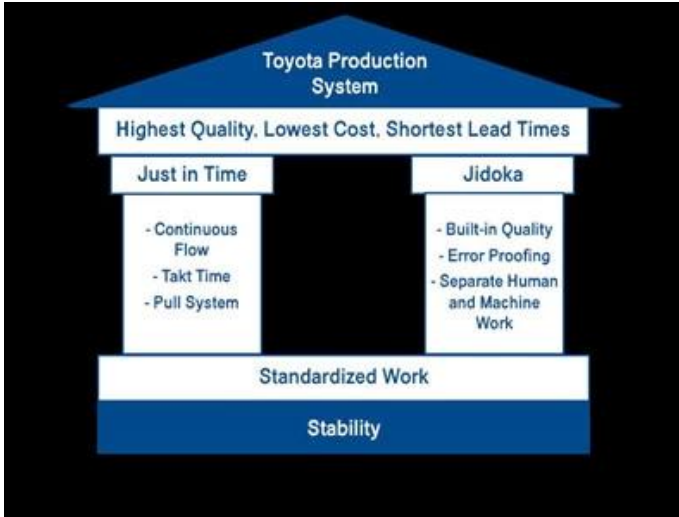
**IATF16949:** 本公司於 2021 年通過 IATF16949 50 認證。該認證是針對汽車行業的國際標準，要求比 ISO 9001 更嚴格。Finehope 工廠已於 2021 年 12 月 1 日正式獲得此項認證。該工廠生產的各種 PU 產品均符合此項認證的要求。此外，該工廠還通過了 ISO 9001 2003 認證，並獲得 2007 年 Caterpillar 認證。Finehope 工廠還通過了 SPC、MSA、FMEA、APQP、PPAP 等認證，並獲得 Caterpillar 認證。詳情請洽本公司。

## Our Advantages



本公司於 2002 年獲得 ISO 9001 認證。此外，我們還獲得 2007 年 Caterpillar 認證。我們擁有先進的生產設備和技術，確保產品質量。我們還提供完善的售後服務，確保客戶滿意。我們的產品廣泛用於汽車、建築、家具等行業。我們擁有豐富的行業經驗，能夠為客戶提供專業的解決方案。我們的生產工廠位於中國，交通便利，物流便捷。我們還擁有完善的質量管理體系，確保產品質量穩定可靠。歡迎各界人士垂詢。

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1. Toyota Production System  
 Toyota Production System (TPS) is a manufacturing system that aims to reduce waste and improve efficiency. It is based on the principles of Just in Time (JIT) and Jidoka. The system is designed to produce high-quality products at the lowest cost and in the shortest lead time. The key components of the TPS are:

- Just in Time (JIT):** This principle focuses on producing goods only when they are needed, reducing inventory and waste. It includes Continuous Flow, Takt Time, and the Pull System.
- Jidoka:** This principle emphasizes quality control and error proofing. It involves separating human and machine work to prevent defects.
- Standardized Work:** This involves creating consistent work procedures to ensure quality and efficiency.
- Stability:** This is the foundation of the TPS, ensuring that the system can maintain consistent performance over time.

Finehope is a company that specializes in providing engineering and manufacturing services. The company is committed to delivering high-quality products and services to its customers. Finehope has a strong track record of working with various industries, including automotive, medical equipment, fitness equipment, and baby supplies. The company's expertise lies in providing comprehensive solutions for its clients, from design and development to production and distribution.

## Famous customer

Cooperation experience

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

1. Toyota Production System

### 1. Toyota Production System

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**2. ᄀᄀᄀᄀᄀ ᄀᄀᄀᄀᄀ ᄀᄀ ᄀᄀ Finehopeᄀ**

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**4. ᄀᄀᄀ ᄀᄀᄀᄀᄀᄀᄀᄀᄀ ᄀᄀ ᄀᄀ Finehope ᄀᄀᄀᄀᄀᄀᄀᄀᄀᄀᄀ ᄀᄀᄀᄀᄀᄀᄀᄀᄀ ᄀᄀᄀᄀᄀᄀᄀᄀ**

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## About us











2019 年 11 月，厦门市工业和信息化局授予飞虎（厦门）新材料科技股份有限公司“厦门市成长型中小微企业”称号。2020 年 11 月，厦门市工业和信息化局授予飞虎（厦门）新材料科技股份有限公司“厦门市专精特新中小企业”称号。2021 年 11 月，厦门市工业和信息化局授予飞虎（厦门）新材料科技股份有限公司“厦门市科技小巨人领军企业”称号。

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2018 年 11 月，福建省安全生产监督管理局授予飞虎（厦门）新材料科技股份有限公司“安全生产标准化二级企业”称号。2019 年 11 月，福建省安全生产监督管理局授予飞虎（厦门）新材料科技股份有限公司“安全生产标准化二级企业”称号。

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公司所获得的福建省排污许可证

公司于2019年5月1日获得了福建省环境保护厅颁发的《福建省排污许可证》。该证书是公司在福建省内从事生产经营活动的必备条件。证书编号为：闽环证字第01201910001号。证书的有效期为2019年5月1日至2021年4月30日。证书的发证机关为福建省生态环境厅。

公司所获得的TUV认证

公司于2019年12月10日获得了TÜV Rheinland颁发的《Verified Supplier Certificate》。该证书是公司在阿里巴巴平台上进行贸易的必备条件。证书编号为：1948971-P-19。证书的有效期为2019年12月10日至2021年12月31日。证书的认证机构为TÜV Rheinland。

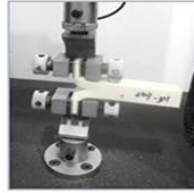
# Quality Assurance



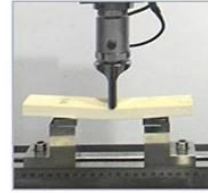
UNIVERSAL TESTING MACHINE(UTM)



Tensile Test



Tear Resistance Test

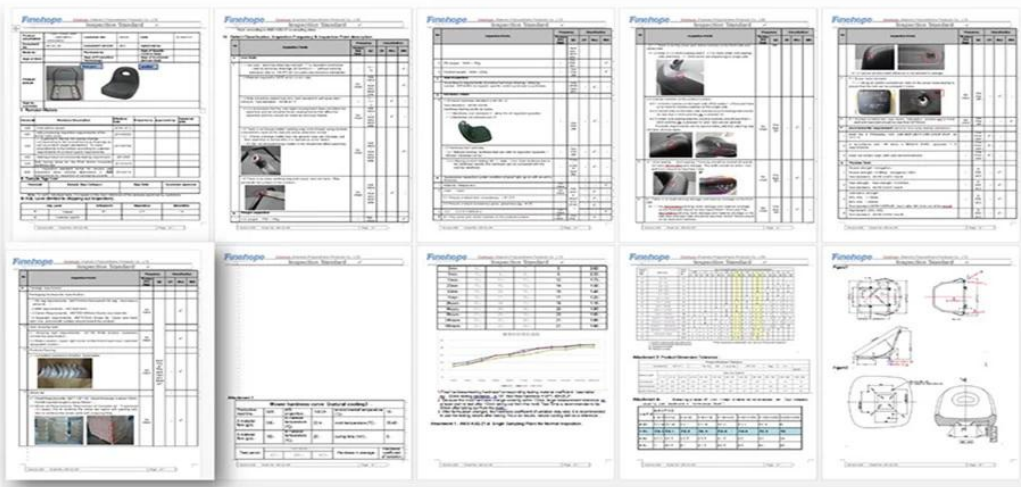


Compressive Strength



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

**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 (unit)	Customer Sample (unit)
1	2	3	4	5	6	7
1	Density	g/cm <sup>3</sup>	ASTM D2014	1.10	1.10	1.10
2	Strength	MPa	ASTM D2014	50	50	50
3	Impact	kJ/m <sup>2</sup>	ASTM D2014	10	10	10
4	Hardness	Shore D	ASTM D2014	70	70	70
5	Modulus	GPa	ASTM D2014	1.0	1.0	1.0
6	Creep	%	ASTM D2014	0.5	0.5	0.5
7	Resilience	J/m <sup>3</sup>	ASTM D2014	100	100	100

FIG. 1. In order to make the strength of two steel rods can be compared, see the test specimen in the same background color. The red rod is the specimen in the test, the blue rod is the specimen in the comparison.

FIG. 2. For the specific grade value in the above test result, it is the value of specimen with the same size 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	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

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 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,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 制定夹具检查清单		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 终检人员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 终检工具检查		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 加工条件确认书 ● Confirm the failure test on a regular basis 定期确认失效试验	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

