



| FREI                                                                                                                            |                                                                                  |                                            |                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DFM/A Report                                                                                                                    | Free 3D Design                                                                   | Frei Mould Opening                         | Free Product Inspection Standard Setting                                                                                                                                                        |
| Finehope. will show details and solutions of manufacturability and assemblability through PPT to help customers reduce trouble. | Finehope help customer design the desired product or modify the design for free. | Großauftrag quantity with mould cost free. | 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. |



## ISO 9001 Certificate

Finehope has obtained ISO 9001 certificate continuously since 2003.



Größerer Wert. Therefore, it is a reliable long-term partner of many Fortune 500 companies and leading companies in the industry.



2.

### **PU raw material research and development capabilities**

Since 2002, Finehope has been committed to the design and manufacture of PU moulded foam products. Independent research and development of formula materials and stable production capacity are the basis for quality assurance. [China Küchenmatten Fabrik](#)

Finehope can adjust the product formula at any time according to the customized needs of customers' personalized products, such as the requirements for hardness, elasticity, support, feel, density, color and other physical and chemical properties, and can make formulation requirements in compliance with the laws and regulations of various countries. Of course, a good formula must also consider the best Preis-Leistungsverhältnis. For new projects, the ability to develop PU formulations is a key condition for ensuring product development quality, delivery time and cost.



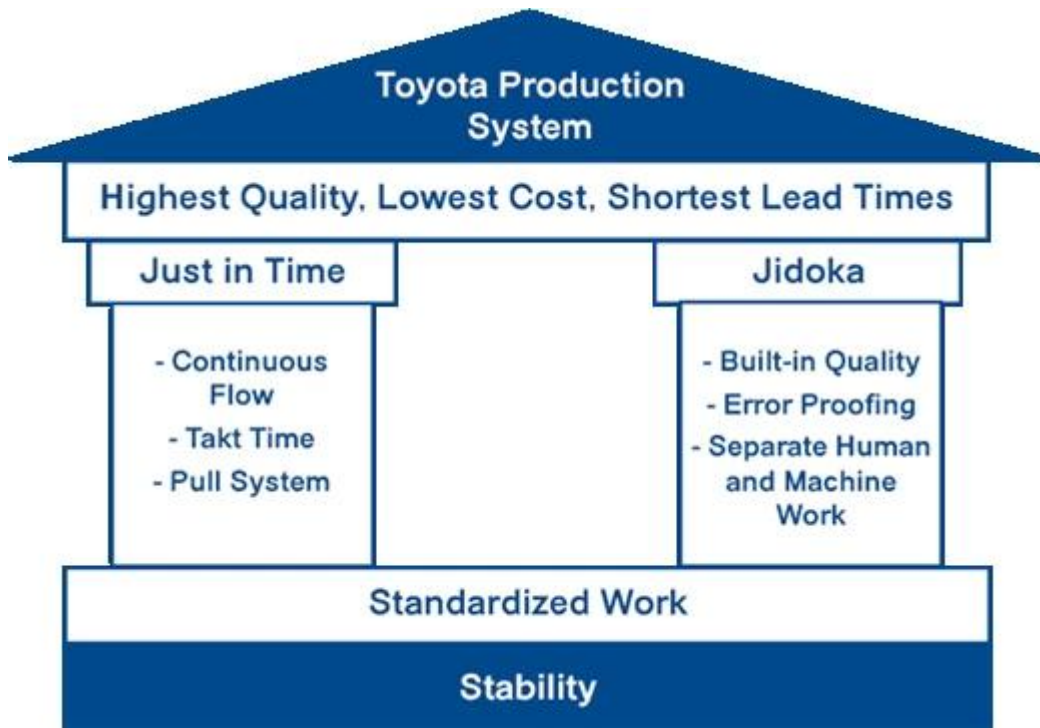
3

### **Wissenschaftliches Management Fähigkeit**

Finehope emphasizes the importance of the Toyota Production System and Corporate Coaching Model to optimize management efficiency. Continuous improvement the efficiency and quality of all employees, management and production personnel have been effectively and continuously improved, management and production costs have been continuously reduced, but more important than efficiency and cost is the cultivation of employee growth through continuous improvement, Because this is the core of corporate sustainable development.[China Dekorativer Anti-Ermüdungsmatten-Hersteller](#)

Finehope 's refinement reduces the trouble for customers, because it reduces the negligence on the human process system and the ability to continuously accumulate professional experience, which can ensure that all new projects are completed in the shortest time.





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4

#### Enterprise Digital. Fähigkeiten

Finehope hat investiert stark in der Forschung und Entwicklung von Softwaresystemen zur Digitalisierung Geschäftsprozessmanagement und Industriefertigung. Digital Transformation

ermöglicht den Finehope, neue Technologien zu verwenden, um Kunden an zu ermöglichen haben eine positive Erfahrung, während die Arbeitslast der Gesellschaft reduziert wird Mitarbeiter und letztendlich die Kosten reduzieren.

## 7 Aspects Define a Digital Enterprise



## Famous customer

### Cooperation experience



## FAQ

### 1. Warum wählen Sie Finehope?

Finehope ist der professionellste PU-Hersteller in China, der über ein professionelles F & E-Team, fortschrittliche PU-Produktionsanlagen, professionelles Testgeräte und ein perfektes Qualitätsmanagementsystem verfügt. Wir haben 12-jährige Kooperationen mit Katze, Fiat, TVH, GGP und anderen berühmten Unternehmen. Wir bieten ihnen einen einstufigen Service von R & D bis zur Produktion, um ihre Anpassungsanforderungen zu erfüllen.

### 2. Was sind die Vorteile der Wahl von Finehope?

- 1) Produktqualitätssicherung, Lieferungsgarantie, guter After-Sales-Service.
- 2) Kostengünstiger, schneller Entwicklungseffizienz, professioneller Betrieb mit Integrität.
- 3) Finehope führt alle Testanalyse durch und erarbeiten dann Testnormen, um den Qualitätsstandardstreit zwischen Kunden und Herstellern zu reduzieren.
- 4) MAN-Produktionsmanagement-Modus.
- 5) Helfen Sie Kunden, neue Produkte zu entwickeln und zu gestalten.
- 6) hat reiche Erfahrungen in der Gestaltung und Verarbeitung von PU-Produkten.
- 7) Finehope ist ein High-Tech-Enterprise in China mit inländischer und verfügbarer der erfindungsgemäßen Patent-Technologie und das geistige Eigentum.

### 3. Was ist der Unterschied zwischen Finehope- und Inlands-Kollegen?

- 1) Qualitätssicherung: Erweiterte Qualitätsplanung (APQP).
- 2) Finehope verfügt über reiche Erfahrung mit internationalen Großunternehmen.
- 3) hat ein professionelles wissenschaftliches Forschungsteam von Polyurethanmaterial.
- 4) hat unabhängige Design-, Fertigungs- und Innovationsfähigkeit von Produktionsanlagen und Formen.

5) Hat das Engineer-Team, das für das Qualitätssicherungssystem und die Qualitätskontrolle verantwortlich ist.

#### 4. Was sind die Unterschiede zwischen Finehope und Europäischen und US-Kollegen?

- 1) hat eine perfekte und reife Stützversorgungskette.
- 2) niedrigere Formkosten.
- 3) Hohe Effizienz der Entwicklungs- und Designfähigkeit und der kurzen Prozesszeit.
- 4) Kostenvorteil und gute Serviceeinhaltung.

#### 5. Was sind die Anwendungen von PU-Produkten?

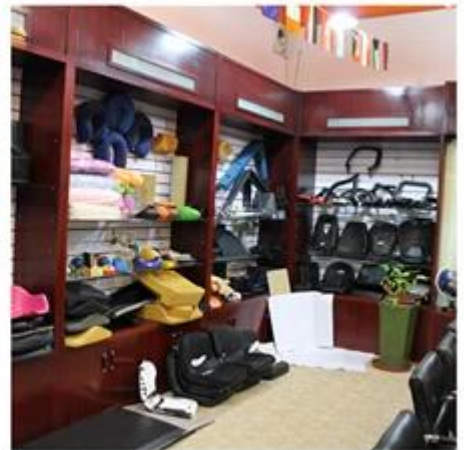
Auto, Ingenieurmaschinen, Sportfitnessgeräte, medizinische Maschinen und tägliche Haushaltsgegenstände usw.

### Über uns



Sekretariat





Probe Zimmer



## Aktivität

## Unser Zertifizierung



## Alibaba verifizierter Lieferant. Zertifikat

Seit 2007, Finehope hat die TÜV-Zertifizierung kontinuierlich bestanden und ist zu einem Alibaba geworden Überprüfter Lieferant.

Verifiziert Lieferant ist ein qualitativ hochwertiger Anbieter, der von der autorisierten Stärke von überprüft ist Alibaba-Plattform. Durch Online- und Offline-Audits, die Händler Unternehmensqualifikationen, Produktqualifikationen, Corporate-Funktionen und Andere umfassende Stärken werden überprüft und überprüfen.



## Integration von Informations- und Industrialisierungsmanagement-Systemzertifikat

Das Zertifikat ist. bewertet von der männischen Regierung der Xiamen und von der Shanghai-Akademie herausgegeben der Qualitätsmanagementwissenschaft. Dieses Zertifikat spiegelt das Niveau von wider Finehope Tiefe Integration von Informatisierung und Industrialisierung. Finehope wird weiterhin einen neuen Weg der Industrialisierung annehmen. Informationen verwenden. Technologie als Unterstützung, um traditionelle kinetische Energie umzusetzen und zu aktualisieren, Kultivieren Sie neue kinetische Energie und verfolgen Sie ein nachhaltiges Entwicklungsmodell.





### **Xiamen Wachstumsorientierte Mikro-, kleine und mittlere Unternehmen**

Finehope has been rated als "Xiamen Wachstumorientierte Micro, kleine und mittlere Unternehmen" seit 2019. Es ist das Ergebnisergebnis der städtischen Regierung Xiamen, die auf Finehope basiert verschiedene umfassende Indikatoren, Wachstumsmodelle, Markenstärke in der Industrie und guter Unternehmensrückführung, dann erstellen Sie dieses Zertifikat. Es ist ein proof that Finehope stands out among thousands of small and medium-sized enterprises in the city.





## Arbeitssicherheit Standardization Certificate

Manufacturing safety is important to prevent or lessen the risk of workplace injury, illness, and Tod.

Finehope General Manager Tiger Side: "Only those manufacturing facilities which continue to emphasize safety as a top-level issue will remain highly productive and competitive in today's marketplace."

Finehope must be proactive about employee safety. Without a focus on safety, can place their employees at risk, cause fire and face expensive property damagend and affect delivery.



## Xiamen Science And Technology Little Giant Leading Enterprise

Since 2019, Finehope has been selected as the leading company of Xiamen Science and Technology Little Riese. This certificate was jointly issued by five departments of the Xiamen Municipal Regierung. The selection criteria focus on strategic emerging industries such as new generation information technology, high-end equipment, new materials, new energy, biology and new medicine, energy saving and environmental protection, and marine high-tech. Winning this honor shows that Finehope is at the forefront of the industry in new information technology and new materials.



## Fujian Province Pollution Discharge Permit

Pollution discharge permits are the "identity cards" of all entities involved in the discharge of pollutants and are issued by the Xiamen Municipal Environmental Protection Bureau.

General Secretary Xi Jinping emphasized that "the ecological environment should be protected like the eyes, and the ecological environment should be treated like life." Premier Li Keqiang said: "Environmental pollution is a hazard to the people's livelihood and the pain of the people's hearts. It must be dealt with an iron fist." The Chinese government's determination to improve the environmental quality of the atmosphere, water bodies, and soil cannot be ignored. Pollution permits are an important factor that must be considered in international procurement. Otherwise, the factory has hidden dangers and will be ordered to stop production, which will affect the delivery

date.

Man kann sehen, dass Finehope is a manufacturer with long-term cooperation and stable delivery.



### **Xiamen Specialized, Refining, Differentiate, Innovative SMEs**

Finehope has been rated as "Xiamen Specialized, Refining, Differentiate, Innovative SMEs" since 2020. "Specialized, Refining, Differentiate, Innovative" refers to SMEs with outstanding main business, strong professional capabilities, strong R&D and innovation capabilities, and development potential. Mainly concentrated in the new generation of information technology, high-end equipment manufacturing, new energy, new materials, biomedicine and other mid-to-high-end industries.

Leading in the same industry in terms of market, quality, efficiency or development, with advanced and exemplary.

Through this certificate, the government emphasizes and recognizes finehope 's "specialization, special innovation" is to encourage innovation and achieve specialization, reform, and specialization.

Finehope should continue to take "specialization, special innovation" as the direction, focus on their main business, practice hard work, strengthening innovation, and build the company into a "single champion" or "supporting expert" with unique skills.



**Fiscal Year 2020  
CERTIFICATION OF REGISTRATION**

This certifies that:

**Finehope (Xiamen) New Material Technology Co., Ltd.**  
NO. 466 Jiu-tian-hu Road Ninglin , Jimei, XIAMEN, Fujian, 361022,  
CHINA  
has completed the FDA Establishment Registration (as manufacturer , foreign exporter,  
contract manufacturer ) and Device Listing with the US Food & Drug Administration,  
through

U.S. Agent for FDA Communications: SUNGO TECHNICAL SERVICE INC.  
6050 W EASTWOOD AVE APT 201, CHICAGO,  
ILLINOIS 60630, USA  
Telephone: +1 455-957-7779 / E-mail: [sungogroup@yahoo.com](mailto:sungogroup@yahoo.com)

**Registration Number: 3014535570**

**Device Listing: See annex**

*SUNGO Technical Service Inc. will confirm that such registration remains effective upon request and presentation of this certificate until the end of the calendar year stated above, unless said registration is terminated after issuance of this certificate. SUNGO Technical Service Inc. makes no other representations or warranties, nor does this certificate make any representations or warranties to any person or entity other than the named certificate holder, for whose sole benefit it is issued. This certificate does not denote endorsement or approval of the certificate-holder's device or establishment by the U.S. Food and Drug Administration. SUNGO Technical Service Inc. assumes no liability to any person or entity in connection with the foregoing.*

*Pursuant to 21 CFR 807.39, "Registration of a device establishment or assignment of a registration number does not in any way denote approval of the establishment or its products. Any representation that creates an impression of official approval because of registration or possession of a registration number is misleading and constitutes misbranding." The U.S. Food and Drug Administration does not issue a certificate of registration, nor does the U.S. Food and Drug Administration recognize a certificate of registration. SUNGO Technical Service Inc. is not affiliated with the U.S. Food and Drug Administration.*



Executive Director  
Issued: Dec. 19 2019  
Cert. No.: 200608756529  
Expiration Date: Dec. 31 2020

SUNGO CHINA OFFICE Tel: 021-68628052 Email: [Shago2006@126.com](mailto:Shago2006@126.com) Website: [www.sungoglobal.com](http://www.sungoglobal.com)  
Add: 13<sup>th</sup> Floor, No.1000 Century Avenue, Shanghai 200122, P.R.China

## FDA certification

Food and Drug Administration (FDA) established in 1906 is a government agency under the passage of the Federal Food and Drugs Act. The FDA Certification is mandatory for placing the products in the USA.

This major responsibility of FDA is protecting and managing public health and related authorities by assuring the safety and security of human and biologically generated product. The FDA regulates products including biological products, medical services, cosmetics, prescription drugs and non-prescription drugs, Tierarzneimittel, Tabak- und andere Strahlenemissionen.

Finehope ist bestanden. FDA certification every year since 2018. FDA approval means that the products Produziert von Finehope haben ausländische Regierungszertifikate (CFG) und Kann den globalen Markt reibungslos betreten.



**Qualität Sicherheit**





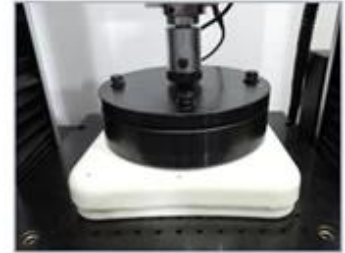
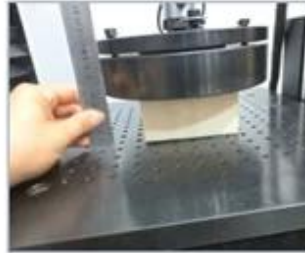
### Tensile Test



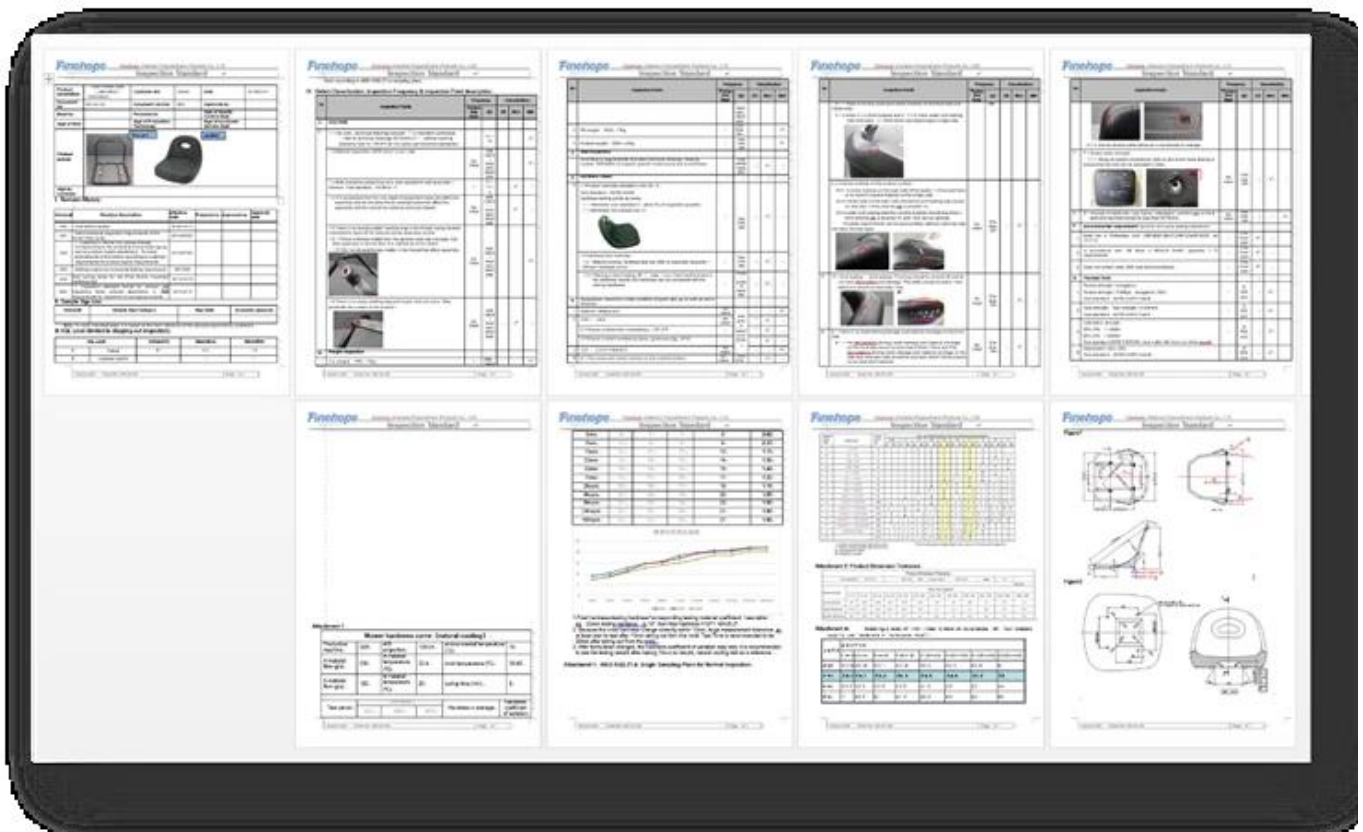
### Tear Resistance Test



### Compressive Strength



### Indentation Force Deflection





| APQP Deliverable                                                      | Finehope APQP Reference Only | G<br>Y<br>R | Project Need Date | Supplier Timing Date | Actual Closure Date | Supplier Lead Resp Initials | Finehope Acceptance Complete | Remarks or Assistance Required |
|-----------------------------------------------------------------------|------------------------------|-------------|-------------------|----------------------|---------------------|-----------------------------|------------------------------|--------------------------------|
| <b>AIAG APQP Phase 2 - Product Design and Development</b>             |                              |             |                   |                      |                     |                             |                              |                                |
| 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                                                        | 2030                         | 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)                  | 2230                         | 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                     | /                              |
| <b>AIAG APQP Phase 3 - Process Design and Development</b>             |                              |             |                   |                      |                     |                             |                              |                                |
| 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                    | /                              |
| <b>AIAG APQP Phase 4 - Product and Process Validation</b>             |                              |             |                   |                      |                     |                             |                              |                                |
| 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                    | /                              |
| <b>AIAG APQP Phase 5 - Feedback, Assessment and Corrective Action</b> |                              |             |                   |                      |                     |                             |                              |                                |
| 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                    | /                              |

Viele Kunden wählen Finehope ist ihr Partner, weil Finehope dem APQP-Prozess folgt, Ermöglicht, dass sie während des gesamten Prozesses am Projekt teilnehmen können, immer den Fortschritt des Projekts und die Qualitätssicherung von jedem sehen Verknüpfung.

## Fehler-Modus und Effekte Analyse (FMEA).

Die FMEA wird von beiden verwendet Design- und Produktionsingenieure (DFMMEA und Pfmea), um potenzielle Probleme zu betrachten Mit einem Design oder einem Prozess bestimmen Sie die Schwere des Problems, die Frequenz kann auftreten und ob das Problem erkannt werden kann oder nicht Jeder. Wenn die FMEA-Analyse abgeschlossen ist, sind dann die hohen Bewertungsfragen Überprüft und entweder korrigiert oder Schritte werden gemacht, um diese Risiken zu mindern.

Finehope-Projektmanager. Wan sagte: "FMEA hilft dem Projekt, viele Fehler zu vermeiden und den Kunden zu helfen Speichern Sie den neuen Projektentwicklungszyklus ".



## 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

Project 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/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                                                                              |
|---------------------------------|---------------------------|----------------------------|--------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------|-----------------------------------|---------------|-----|-------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------|
| 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 |
| 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                                     |
| 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 tilt, 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   |

H-R-P-001-1

## Process Failure Mode and Effects Analysis (PFMEA)

FMEA No.FMEA20150325-01

Page 3

Maker:Wenrong-Huang

FMEA Date (Original):2015.03.25

Item:Welding Improvement

项目:焊接改善

Process Responsibilities: Production welding group

过程职责: 生产组焊接组

Model year/project

型号年/项目

Key Dates

关键日期

| Item<br>项目                                                                                  | Potential failure mode<br>潜在失效模式                                                               | Potential consequences of failure modes<br>失效的后果/潜在后果            | Severity<br>严重度 | Grade<br>等级 | Potential causes of failure<br>失效的潜在原因                                                         | Occurrence degree<br>发生度 | Current process control and Prevention<br>现行过程控制/预防                                                                                                                | Current process control detection<br>现行过程控制检测                              | Detection rate<br>检测率 | RPN | Suggest measures<br>建议措施                                                                                                                                    | Responsibility and target completion date<br>职责及目标/计划完成日期 | Measure results<br>措施结果 |
|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------|-------------|------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------|
| Clamping (clamping required is in place, no missing or wrong loaded)<br>锁紧 (锁紧需到位, 无漏装, 错装) | Clamping is not in place<br>锁紧不到位                                                              | Size NG<br>尺寸NG                                                  | 6               | B           | ● Staff negligence<br>人员作业疏忽<br>● Fixture for bad<br>夹具定位不良                                    | 4                        | ● Make the operation standard book<br>制定作业标准书<br>● Make maintenance standards, regular maintenance<br>制定保养标准, 定期保养, 维护                                             | ● Visual inspection<br>目视检查<br>● Finished 100% full inspection<br>完成100%全检 | 6                     | 144 | ● Pre-service training of staff<br>人员岗前培训<br>● Regular maintenance<br>工器具定期维护                                                                               |                                                           | 6 3 4 72                |
|                                                                                             | Welding error, leak, deviation, affect the assembly or use function<br>焊接错误, 漏装, 偏差, 影响装配或使用功能 |                                                                  | 8               | A           | ● Staff negligence<br>人员作业疏忽<br>● Fixture for bad<br>夹具定位不良<br>● Fixture inaccurate<br>夹具定位不准确 | 4                        | ● Make the operation standard book<br>制定作业标准书<br>● Make maintenance standards, regular maintenance<br>制定保养标准, 定期保养, 维护<br>● Regular checking of fixture<br>对夹具定期点检 | Visual inspection<br>目视检查                                                  | 6                     | 192 | ● Pre-service training of staff<br>人员岗前培训<br>● Regular maintenance<br>工器具定期维护<br>● Make inspection checklist for fixture<br>制定夹具点检表                         |                                                           | 8 3 4 96                |
|                                                                                             | Attachment missing<br>附件漏装                                                                     | Affect product strength or influence the assembly<br>影响产品强度或影响装配 | 8               | A           | Staff negligence<br>作业人员疏忽                                                                     | 3                        | Make the operation standard book<br>制定作业标准书                                                                                                                        | Visual inspection<br>目视检查                                                  | 4                     | 96  | Final inspection personnel do 100% full inspection for each bead with mark<br>最终人员100%全检, 并做标识                                                              |                                                           | 8 2 2 32                |
|                                                                                             | Attachment error<br>附件错装                                                                       | Influence assembly<br>影响装配                                       | 7               | A           | No mistake proofing fixture<br>并无防错装置                                                          | 3                        | Make the operation standard book<br>制定作业标准书                                                                                                                        | Visual inspection<br>目视检查                                                  | 5                     | 126 | ● Increase the mistake proofing devices<br>增加防错装置<br>● Inspection for final inspection tools<br>对最终检验工具                                                     |                                                           | 7 2 4 56                |
| False welding<br>假焊                                                                         | Lack of strength, affect the use of function<br>强度不足, 影响使用功能                                   |                                                                  | 9               | A           | Current, voltage, welding angle, speed setting is not reasonable<br>电流, 电压, 焊接角度, 速度设定不合理      | 4                        | ● Welding process guidance making<br>制作焊接工艺指导书<br>● Condition confirmation check<br>加工条件确认表<br>● Confirm the failure test on a regular basis.<br>定期进行失效条件确认        | Destructive testing<br>破坏性试验检测                                             | 8                     | 288 | After the procedure is set up to confirm the processing conditions, the execution and marking of the failure test is performed.<br>流程设置完成后需确认加工条件, 并做失效条件确认 |                                                           | 9 3 4 108               |





Reaction Injection Molding (RIM)  
High Pressure Machine  
KRAUSS MAFFEI  
Made in Germany!



### **Krauss Maffei.**

Finehope hat. sukzessive führte viele der fortschrittlichsten deutschen KraussMaffei der Welt ein Hochdruckspritzmaschinen seit 2010.



### **Selbst erfunden Vollautomatische Produktionslinie**

Finehope hat. unabhängig entwickelte eine Reihe vollautomatischer PU-Injektionsproduktion Linien seit 2010. Diese Produktionslinien reduzieren die Produktionskosten und treffen sich Anforderungen an den Kunden.

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## **Schweißroboter**

Seit 2016 hat Finehope kaufte weiterhin Schweißroboter und automatische Fixture Turntables für Schweißen von Metallteilen. Die unabhängige Verarbeitung von Zubehör spart das Wartezeit- und Beschaffungskosten der Outsourcing-Verarbeitung.





## CNC-Maschine

Finehope ist weiterhin weiter Kaufen Sie CNC-Geräte seit 2016. CNC (Computer numerisch gesteuert) Die Bearbeitung ist ein Herstellungsprozess, in dem die vorprogrammierte Computersoftware vorprogrammiert ist Diktiert die Bewegung von Fabrikwerkzeugen und Maschinen. Mit dieser Art von Maschine versus manuelle Bearbeitung kann zu einer verbesserten Genauigkeit führen, erhöht Produktionsgeschwindigkeiten, verbesserte Sicherheit, erhöhte Effizienz und vor allem, Helfen Sie Kunden, Kosten zu sparen und die Produktqualität zu verbessern.



## Formtrennmittel Lackierroboter



Seit 2019 hat Finehope gekaufte Roboter zum Sprühen von Trennmittel auf Wasserbasis, um das Arbeiten zu verbessern Umwelt, verbessern Sie die Spritzqualität und die Materialauslastung und reduzieren Sie Arbeitskosten.



### **3D Drucker**

Finehope begann zu Kaufen Sie 3D-Drucker im Jahr 2015. Der 3D-Druck kann den schnellen Nachweis von Neuen realisieren Produktprototypen und -vorlagen für Harzformen und können auch verwendet werden Schnellere und günstigere kleine Chargenproduktion.

### **ZUSÄTZLICH**

Zusätzlich zum oben genannten, Wir haben auch leistungsfähigere 19-jährige Supply Chain Management-Funktionen mit Unterstützende Verarbeitungsgeräte und -funktionen, die nicht oben aufgeführt sind. Wir haben strikte Vorschriften und Anforderungen für ihre Qualifikationsprüfung, Qualitätskontrollplan und eingehende Qualitäts-Batch-Management.

Wir können Kohlefaser machen, Glasfaser, Holzprodukte, Hardware usw. In großen Mengen haben wir Lieferanten mit stabiler Qualität und Leistung zur Zusammenarbeit.

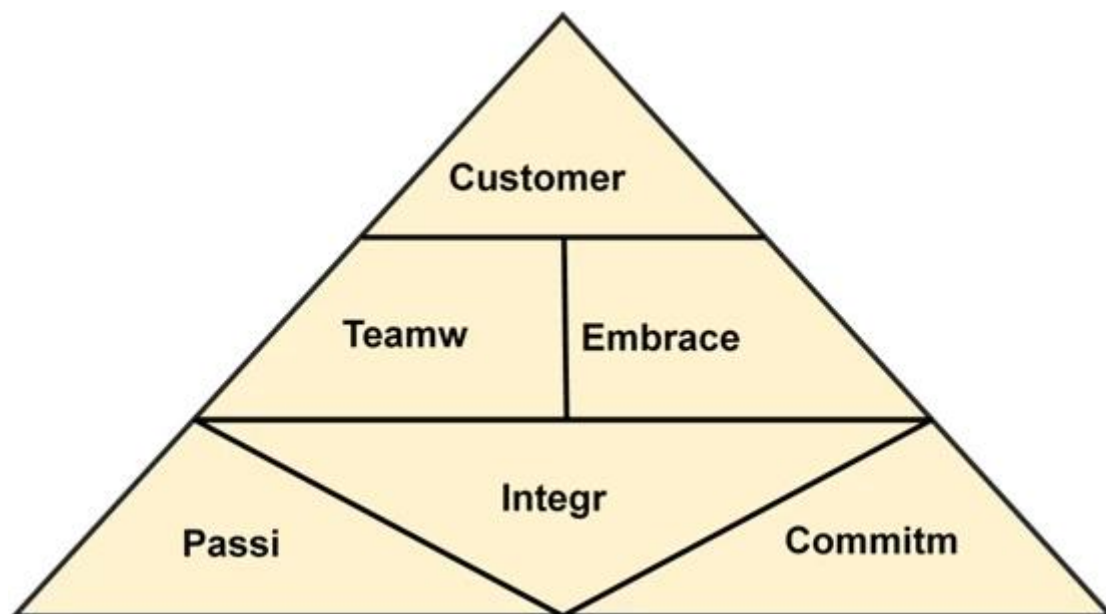
### **Sozial Verantwortung**

- Strictly follow SA8000
- public-spirited



Voluntary tree planting after Super Typhoon Meranti 2016

## EIN Wertbasierte Firma



PolyurathanSchaumProduktebrauchen,willkommenKontaktuns.

Amanda



Finehope (Xiamen) New Material Technology Co., Ltd.  
No. 466 Jiutianhu Road, Xingbei Industry Area, Jimei District, Xiamen, China  
Post code: 361022  
Email: [Amanda@finehope.com](mailto:Amanda@finehope.com)  
Tel: 86-592-66617667  
Mob: 86-18050099072