



| <b>LIBRE</b>                                                                                                                            |                                                                                             |                                                   |                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DFM / un rapport</b>                                                                                                                 | <b>Conception 3D gratuite</b>                                                               | <b>Libre Ouverture de moule</b>                   | <b>Réglage de la norme d'inspection du produit gratuit</b>                                                                                                                                                 |
| Finehope montrera les détails et les solutions de fabricabilité et d'assemblage Par PPT pour aider les clients à réduire les problèmes. | Finehope aide le client concevoir le désiré produit ou modifier la conception gratuitement. | Grosse commande Quantité avec le moulage gratuit. | En plus de la quantification habituelle de Propriétés physiques et normes d'apparence, nous allons ajouter la portée, RoHS, FDA, CA-65 ou CFC gratuitement aux normes en fonction des besoins des clients. |



## Certificat ISO 9001

Finehope a Obtenu Certificat ISO 9001 en continu depuis 2003.



La capacité de l'Finehope à réduire en permanence les coûts et innover les produits peuvent aider les clients à apporter plus grande valeur. Par conséquent, il s'agit d'un partenaire fiable à long terme de nombreuses fortunes 500 entreprises et principales entreprises du secteur.



2

## **Recherche en matière première et capacités de développement**

Depuis 2002, Finehope a été engagés dans la conception et la fabrication de produits mousses moulés en PU. Recherche et développement indépendant des matériaux de formule et de la production stable La capacité est la base de l'assurance de la qualité. [Fabricant de tapis debout debout en Chine](#)

Finehope peut ajuster la formule de produits à tout moment en fonction des besoins personnalisés des clients produits personnalisés, tels que les exigences relatives à la dureté, l'élasticité, soutien, sensation, densité, couleur et autres propriétés physiques et chimiques, et peut faire des exigences de formulation conformément aux lois et règlements de divers pays. Bien sûr, une bonne formule doit également considérer le meilleur Performance des coûts. Pour de nouveaux projets, la capacité de développer des formulations PU est une Condition clé pour assurer la qualité du développement de produits, le délai de livraison et le coût.



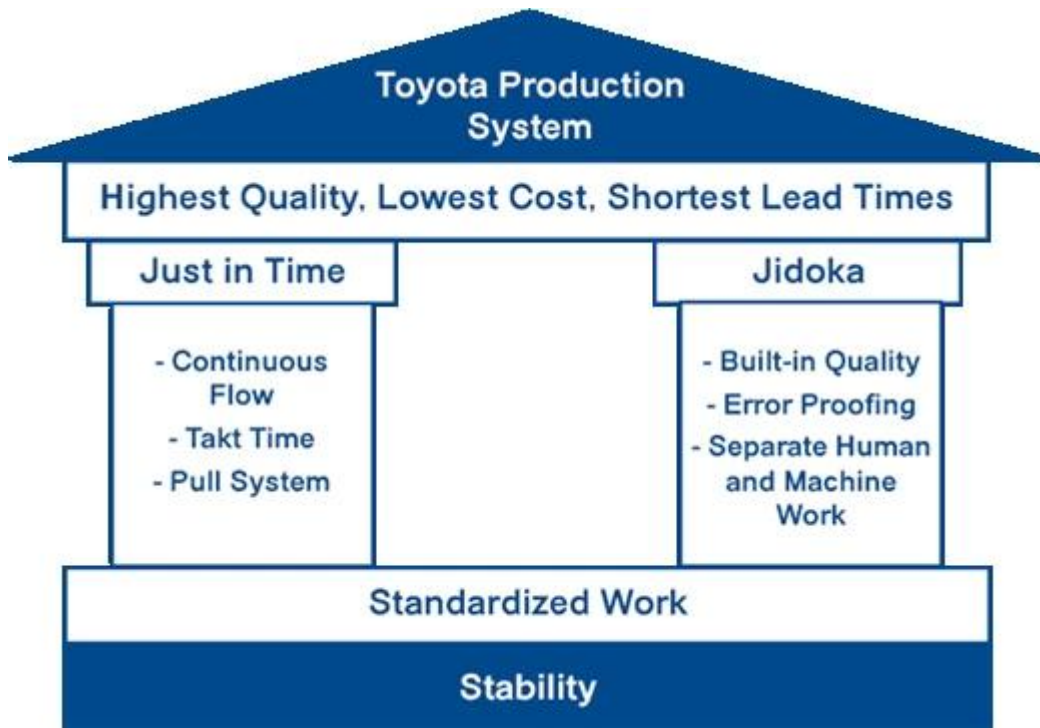
### 3

#### **Gestion scientifique capacité**

Finehope souligne la importance du système de production de Toyota et du modèle de coaching d'entreprise à Optimiser l'efficacité de la gestion. Amélioration continue de l'efficacité et La qualité de tous les employés, la gestion et le personnel de production ont été efficacement et continuellement amélioré, la gestion et les coûts de production ont été continuellement réduit, mais plus important que l'efficacité et le coût sont les la culture de la croissance des employés grâce à une amélioration continue, car c'est le noyau du développement durable des entreprises.[Chine Matte anti-fatigue polyuréthane usine](#)

Finehope 'S RÉFINIMENT réduit le problème des clients, car il réduit la négligence sur le Système de processus humain et la capacité d'accumuler continuellement professionnel expérience, qui peut garantir que tous les nouveaux projets sont terminés dans le temps le plus court.





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4

#### Enterprise digital capabilities

Finehope has invested heavily in the research and development of software systems to digitize business process management and industrial manufacturing. Numérique transformation allows

Finehope to use new technologies to enable customers to have a more positive experience, while reducing the workload of the company's employees and ultimately reducing costs.

## 7 Aspects Define a Digital Enterprise



## Famous customer

### Cooperation experience



## FAQ

### 1. Why you choose Finehope ?

Finehope is the most professional PU manufacturer in China, which has a professional R&D team, advanced PU production equipment, professional testing equipment and perfect quality management system. We have 12-year cooperation experience with CAT, FIAT, TVH, GGP and other famous enterprises. We provide them with one-step service from R&D to production to satisfy their customization needs.

### 2. What are the advantages of choosing Finehope ?

- 1) Product quality assurance, delivery guarantee, good after-sales service.
- 2) Cost-effective, fast development efficiency, professional operation with integrity.
- 3) Finehope will conduct all testing analysis and then work out testing standards to reduce quality standard dispute between customers and manufacturers.
- 4) Lean production management mode.
- 5) Help customers to develop and design new products.
- 6) Has rich experience in the design and processing of PU products.
- 7) Finehope is a high-tech enterprise in China with domestic and have international invention patents technology and intellectual property.

### 3. What are the difference between Finehope and domestic peers?

- 1) Quality assurance: advanced quality planning (APQP).
- 2) Finehope has rich experience in serving international large enterprises.
- 3) Has professional scientific research team of polyurethane material.
- 4) Has independent design, manufacturing and innovation ability of production equipment and molds.

5) Has engineer team who is responsible for the quality assurance system and quality control.

#### 4. What are the differences between Finehope and European and U.S peers?

- 1) Has perfect and mature supporting supply chain.
- 2) Lower mold costs.
- 3) High efficiency of development and design ability and short process time.
- 4) Cost advantage and good service attitude.

#### 5. What are the applications of PU products?

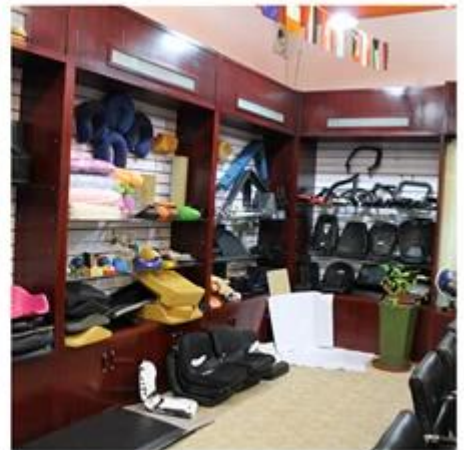
Car, engineering machinery, sports fitness equipment, medical machinery and daily household items and so on.

### À propos de nous



Bureau





Échantillon salle



## Activité

## Notre Certification



## Alibaba Verified Supplier Certificat

Depuis 2007, Finehope has continuously passed TUV certification and has become an Alibaba Fournisseur vérifié.

Verified Supplier is a high-quality supplier verified by the authoritative strength of Alibaba platform. Through online and offline on-site audits, the merchants' corporate qualifications, product qualifications, corporate capabilities, and other comprehensive strengths are reviewed and verification.



## L'intégration de Informationization and Industrialization Management System Certificate

The certificate is assessed by the Xiamen Municipal Government and issued by the Shanghai Academy of Quality Management Science. This certificate reflects the level of Finehope 's in-depth integration of informatization and industrialization. Finehope will continue to take a new path of industrialization; use information technology as the support to transform and upgrade traditional kinetic energy, cultivate new kinetic energy, and pursue a sustainable development model.





### **Xiamen Growth-oriented Micro, Small & Medium Enterprises**

Finehope has been rated as "Xiamen Growth-oriented Micro, Small & Medium Enterprises" since 2019. It is the scoring result of the Xiamen Municipal Government based on Finehope's various comprehensive indicators, growth models, brand strength in the Industrie et bonne réputation d'entreprise, puis émettez ce certificat. C'est un Preuve que Finehope se distingue par des milliers de petites et moyennes Entreprises dans la ville.





## La sécurité du travail Certificat de normalisation

La sécurité de la fabrication est important d'empêcher ou d'atténuer le risque de blessure au travail, de maladie et la mort.

Finehope General Manager Side Tiger: «Seules les installations de fabrication qui continuent à mettre l'accent sur la sécurité en tant que problème de niveau de haut niveau restera très productif et compétitif sur le marché actuel. »

Finehope doit être proactif sur la sécurité des employés. Sans se concentrer sur la sécurité, peut placer leurs employés à risque, causent le feu et le visage coûteux Damagenend et affecter la livraison.



## Xiamen science et Technology Petite entreprise principale géante

Depuis 2019, Finehope a été sélectionné comme la principale société de Xiamen Science et Technology Petit Géant. Ce certificat a été joint conjointement par cinq départements de la municipalité de Xiamen. Gouvernement. Les critères de sélection se concentrent sur les industries émergentes stratégiques telles que En tant que nouvelle technologie de l'information de génération, équipement haut de gamme, nouveaux matériaux, Nouvelle énergie, biologie et nouveau médicament, économie d'énergie et environnement Protection et marine haute technologie. Gagner cet honneur montre que Finehope est à La pointe de l'industrie dans les nouvelles technologies de l'information et les nouveaux matériaux.



## Pollution de la province fujie Permis de décharge

Déchargement de la pollution Les permis sont les "cartes d'identité" de toutes les entités impliquées dans la décharge de polluants et sont émises par l'environnement municipal de Xiamen Bureau de protection.

Secrétaire général XI Jinping a souligné que "l'environnement écologique devrait être protégé Comme les yeux, et l'environnement écologique doit être traité comme la vie. "Premier ministre Li Keqiang a déclaré:" La pollution de l'environnement est un danger pour les moyens de subsistance des gens et la douleur des cœurs du peuple. Il doit être traité avec un poing de fer. " La

détermination du gouvernement chinois à améliorer la La qualité de l'environnement de l'atmosphère, des masses d'eau et du sol ne peut pas être ignoré. Les permis de pollution sont un facteur important qui doit être considéré dans Achats internationaux. Sinon, l'usine a caché des dangers et la volonté être commandé pour arrêter la production, ce qui affectera la date de livraison.

On peut voir que Finehope est un fabricant avec une coopération à long terme et une livraison stable.



### **Xiamen spécialisé, Raffinage, différenciation, PME innovantes**

Finehope a été évalué comme "Xiamen spécialisé, raffinant, différencié des PME innovantes" depuis 2020. "Spécialisé, Raffinage, différenciation, innovante" fait référence aux PME avec le principal exceptionnel Affaires, fortes capacités professionnelles, solide R & D et innovation capacités et potentiel de développement. Principalement concentré dans le nouveau Génération de technologies de l'information, fabrication d'équipements haut de gamme, nouveau énergie, nouveaux matériaux, biomédecine et autres industries à mi-fin.

Menant dans le même industrie en termes de marché, de qualité, d'efficacité ou de développement, avec avancé et exemplaire.

À travers ce certificat, Le gouvernement souligne et reconnaît la spécialisation de l'finehope, Innovation spéciale "est d'encourager l'innovation et de la spécialisation, réforme et spécialisation.

Finehope devrait continuer prendre "spécialisation, innovation spéciale" comme direction, concentration sur leur entreprise principale, pratiquer le travail acharné, renforcer l'innovation et construire la société dans un "champion unique" ou "expert soutenant" avec des compétences uniques.



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.: 2006U8756529  
Expiration Date: Dec. 31 2020

SUNGO CHINA OFFICE Tel: 021-6828052 Email: [Shago2006@126.com](mailto:Shago2006@126.com) Website: [www.sungoglobal.com](http://www.sungoglobal.com)  
Add: 13<sup>th</sup> Floor, No.1500 Century Avenue, Shanghai 200122, P.R.China

## Certification de la FDA

Food and Drug Administration (FDA) établi en 1906 est une agence gouvernementale sous le passage de la Loi fédérale sur la nourriture et la drogue. La certification FDA est obligatoire pour placer la produits aux États-Unis.

Ce majeur La responsabilité de la FDA protège et gère la santé publique et la relation autorités en assurant la sécurité et la sécurité de l'homme et de la biologie produit généré. La FDA régule des produits, y compris des produits biologiques, services médicaux, cosmétiques, médicaments sur ordonnance et médicaments non ordonnances, médicaments vétérinaires, tabac et autres produits émettrices de radiations.

Finehope a passé FDA certification every year since 2018. FDA approval means that the products produced by Finehope have obtained foreign government certificates (CFG) and can enter the global market smoothly.



## Qualité Assurance





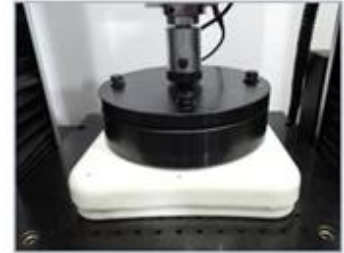
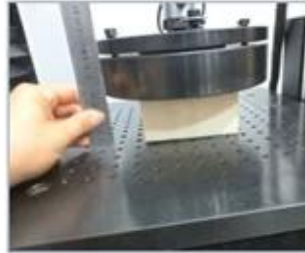
### Tensile Test



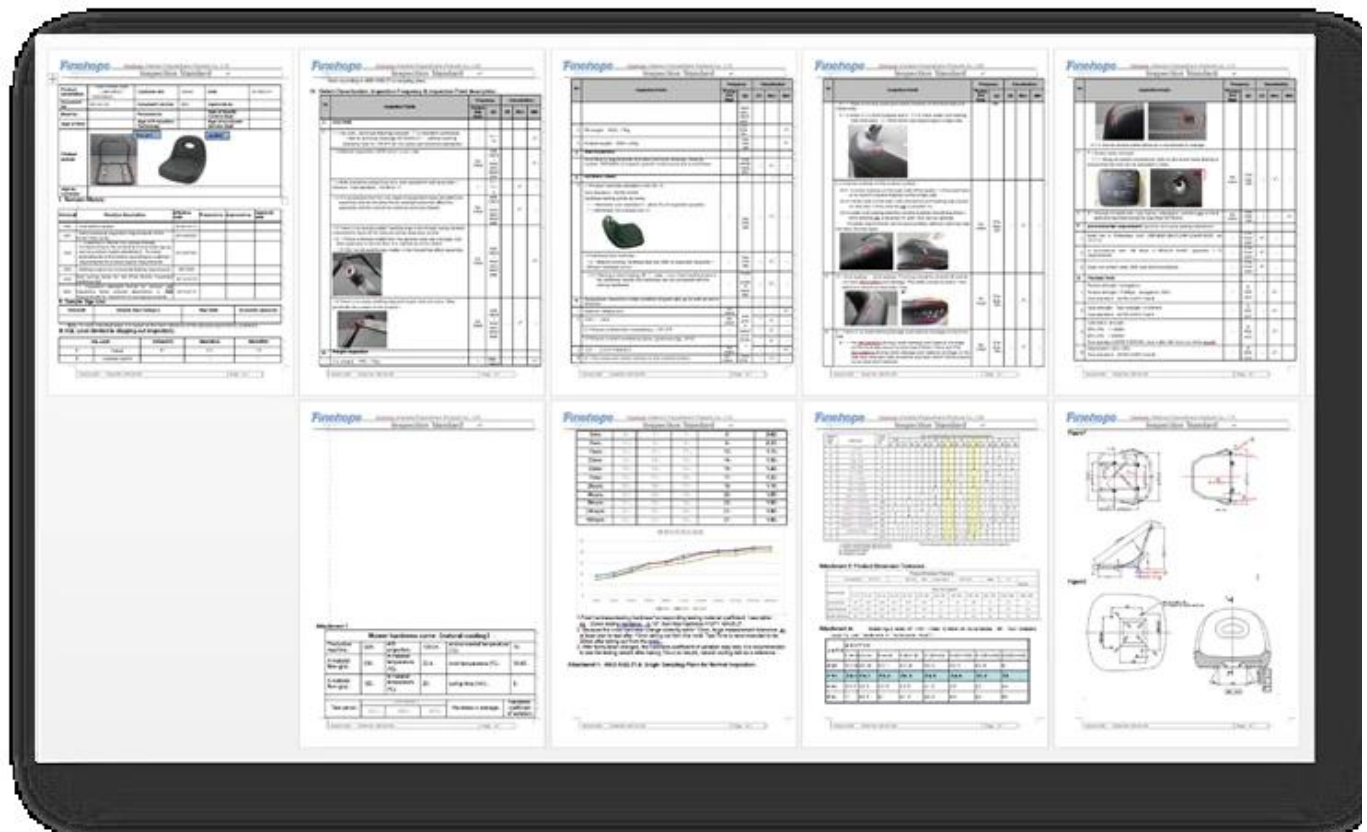
### Tear Resistance Test

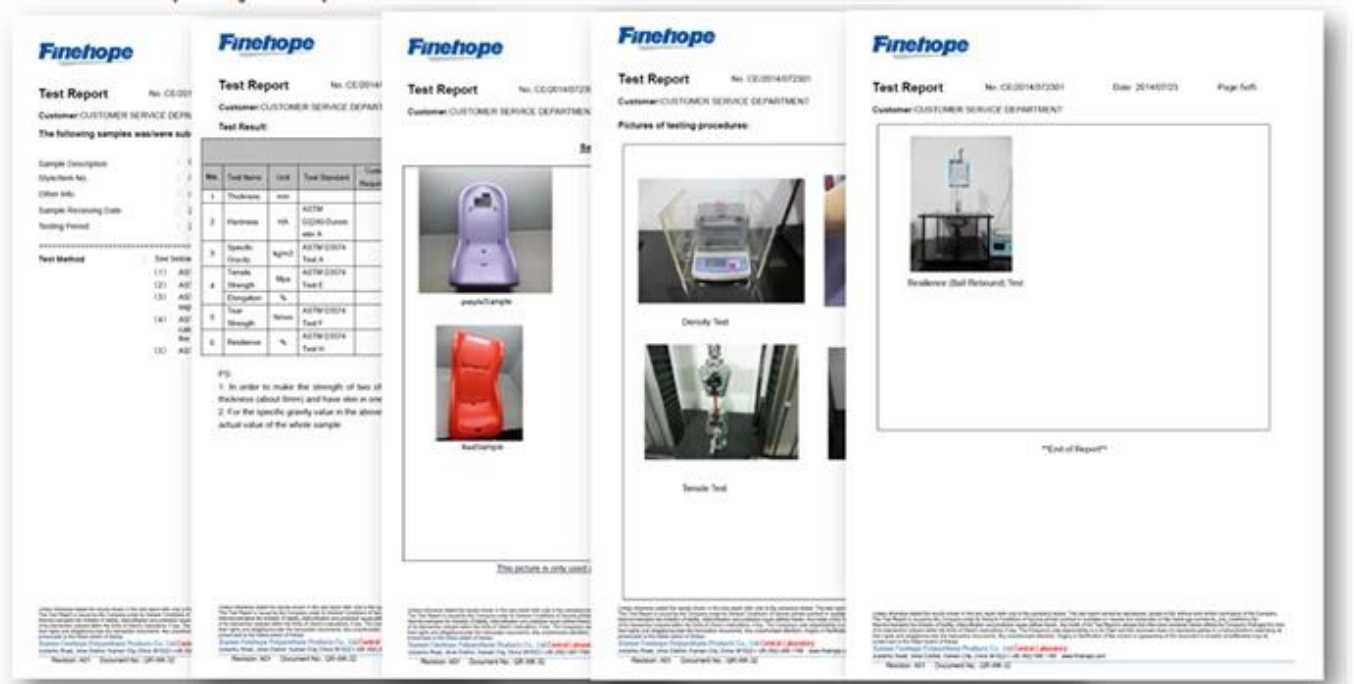


### Compressive Strength



### Indentation Force Deflection





## Advanced Product Quality Planning Process (APQP)

The APQP process provides consistency across the automotive industry and allows all tier suppliers to speak the same language during the development process. Without a common language Finehope designs would not be as efficient and we would be bogged down with numerous meetings trying to explain our work and what is needed. The APQP process gives Finehope the common tools and procedures we need to fully develop and launch a product with the automotive industry and meet all government conditions.



### Advanced Product Quality Planning

Date: 01-Oct-17

|                 |                                                                                                                                                  |  |  |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Customer        | [Redacted]                                                                                                                                       |  |  |
| Location        | New Zealand                                                                                                                                      |  |  |
| Customer Code   | G1019                                                                                                                                            |  |  |
| Risk Assessment | New: Site <input type="checkbox"/> Technology <input type="checkbox"/> Process <input type="checkbox"/><br>Other Risks: <input type="checkbox"/> |  |  |

|                   |            |
|-------------------|------------|
| Project           | [Redacted] |
| Finehope Contact  | Wendy Yang |
| Part No.          | [Redacted] |
| Part Name         | G1019Y04   |
| Change Level/Date |            |
| User Plant(s)     | Finehope   |

| Core Team Members | Company/Title   | Phone/Fax/E-Mail   |
|-------------------|-----------------|--------------------|
| Tiger Xu          | G.M.            | [Redacted]         |
| Yibin Lim         | Vice G.M.       | [Redacted]         |
| Cindy Wu          | Sales Manager   | cindy@finehope.com |
| Liangquan Wan     | Project Manager | [Redacted]         |
| Wendy Yang        | Sales           | wendy@finehope.com |

| Build Level                    | Material Required Date | Quantity | No. Concurrent SRCs | Majors |
|--------------------------------|------------------------|----------|---------------------|--------|
| Product Design and Development | 21-Jun-21              | 10       |                     |        |
| Product and Process Validation | 25-Jun-21              | 15       |                     |        |
|                                |                        |          |                     |        |
|                                |                        |          |                     |        |

| 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                    | /                              |

Many customers choose Finehope to be their partner because Finehope follows the APQP process, allowing them to participate in the project throughout the entire process, always seeing the progress of the project, and the quality assurance of each lien.

## Failure Mode and Effects Analysis (FMEA).

The FMEA is used by both design and production engineers (DFMEA and PFMEA) to look at potential issues with a design or process determine the severity of the issue, the frequency it can occur and whether or not the issue can be detected and applying scores to chacun. When the FMEA analysis is completed the high scoring issues are then reviewed and either corrected or steps are made to mitigate those risks.

Finehope project manager Wan said: "FMEA help the project avoid many mistakes and helped customers save the new project development cycle".



## 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

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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: 生产部焊接组

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/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>定期进行失效条件测试       | 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确认 |                                                         | 9 3 4 108               |



## Production Device <<<



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



### **KRAUSS MAFFEI**

Finehope a successively introduced many of the world's most advanced German KraussMaffei high-pressure injection machines since 2010.



### **Self-invented fully automatic production line**

Finehope a independently developed a number of fully automatic PU 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.





### **Machine cnc**

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**

Depuis 2019, Finehope a purchased robots for spraying water-based release agents to improve the



working environment, improve spraying quality and material utilization, and reduce les coûts de main-d'œuvre.



### **Imprimante 3D**

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.

### **EN OUTRE**

En plus de ce qui précède, we also have more powerful 19-year supply chain management capabilities, with supporting processing equipment and capabilities which not listed above. Nous have strict regulations and requirements for their qualification review, quality control plan and incoming quality batch management.

We can do carbon fiber, glass fiber, wood products, hardware, etc. In large quantities, we have suppliers with stable quality and output to cooperate.

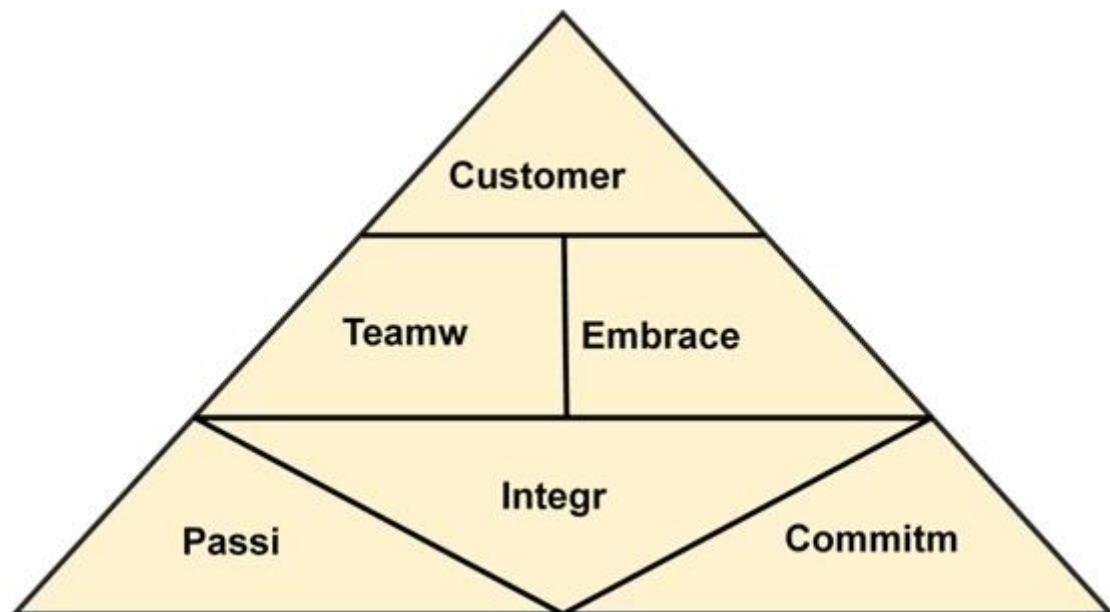
### **Social Responsabilité**

- Strictly follow SA8000
- public-spirited



Voluntary tree planting after Super Typhoon Meranti 2016

### UN Value-based Company



Polyurathanemoussedes produitsavoir besoin,bienvenueContacteznous.

Amanda



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