



# Our Advantages



## Capacités de recherche et de développement de matières premières PU

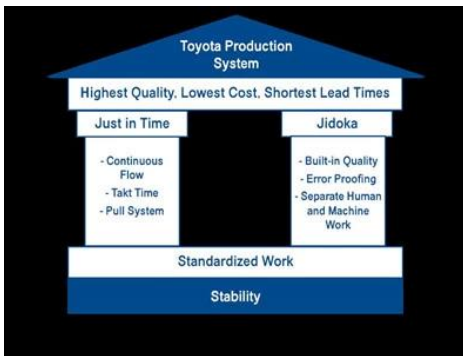
Depuis 2002, Finehope s'est engagé dans la conception et la fabrication de produits en mousse moulée PU. La recherche et le développement indépendants de matériaux de formule et une capacité de production stable sont la base de l'assurance qualité. Finehope peut ajuster la formule du produit à tout moment en fonction des besoins personnalisés des produits personnalisés des clients, tels que les exigences de dureté, d'élasticité, de support, de toucher, de densité, de couleur et d'autres propriétés physiques et chimiques, et peut établir des exigences de formulation conformes aux lois et réglementations de divers pays. Bien sûr, une bonne formule doit également tenir compte de la meilleure performance en termes de coûts.



## Capacités de conception et de fabrication d'équipements d'automatisation

La capacité de Finehope à concevoir et à fabriquer des équipements d'automatisation est rare dans l'industrie. En participant à la conception de nouveaux équipements de mélange d'injection de PU et à la transformation de l'automatisation de la ligne de production, pour s'assurer que sous la concurrence de la Chine, le dividende démographique est réduit et les coûts de main-d'œuvre continuent d'augmenter, l'efficacité de la production peut également être améliorée, les coûts de main-d'œuvre et de matériaux peuvent être réduits. De plus, les capacités continues de conception et de fabrication d'équipements clés tels que les montages, les équipements spéciaux et les moules automatiques sont également les raisons pour lesquelles Finehope occupe une position de leader dans tous les aspects.

La capacité de Finehope à réduire continuellement les coûts et à innover dans les produits peut aider les clients à apporter une plus grande valeur. Par conséquent, c'est un partenaire fiable à long terme de nombreuses entreprises Fortune 500 et des entreprises leaders du secteur.



## Capacité de gestion scientifique

Finehope souligne l'importance du système de production Toyota et du modèle de coaching d'entreprise pour optimiser l'efficacité de la gestion. Amélioration continue l'efficacité et la qualité de tous les employés, du personnel de gestion et de production ont été efficacement et continuellement améliorées, les coûts de gestion et de production ont été continuellement réduits, mais plus important que l'efficacité et le coût est la culture de la croissance des employés grâce à l'amélioration continue, Parce que c'est le cœur du développement durable de l'entreprise.



Le raffinement de Finehope réduit les problèmes pour les clients, car il réduit la négligence sur le système de processus humain et la capacité d'accumuler en permanence une expérience professionnelle, ce qui peut garantir que tous les nouveaux projets sont achevés dans les plus brefs délais.

# Famous customer

Cooperation experience

Engineering  
Vehicle

**BOYD**  
CORPORATION

**TVH**

**AIXAM**

**Honeywell** | **STIGA** **CAT**

Medical  
Equipment

**Hill-Rom**

**INVACARE**  
Yes, you can.

**MAQUET**  
GETINGE GROUP

**Dr Posture**

**Ki Mobility**

Baby  
Supplies

**Bumbo** **Nuby**

**bugaboo**

**chicco**

**Hatch  
Baby**

**GRACO**

Fitness  
Equipment

**STAR TRAC**  
expect different.

**BOWFLEX**

**IB&G**  
BUILDING PRODUCTS

**ergoDRIVEN**  
ergonomic solutions

**NUVA**

Other

**PANDORA**  
UNFORGETTABLE MOMENTS

**Cubefit**

**Knoll**

## FAQ

### 1. Pourquoi avez-vous choisi Finehope ?

Finehope est le fabricant de PU le plus professionnel en Chine, qui dispose d'une équipe de R&D professionnelle, d'un équipement de production de PU avancé, d'un équipement de test professionnel et d'un système de gestion de la qualité parfait. Nous avons une expérience de coopération de 12 ans avec CAT, FIAT, TVH, STIGA et d'autres entreprises célèbres. Nous leur fournissons un service en une étape de la R&D à la production pour satisfaire leurs besoins de personnalisation.

### 2. Quels sont les avantages de choisir Finehope ?

- 1) Assurance qualité du produit, garantie de livraison, bon service après-vente.
- 2) efficacité de développement rapide et rentable, fonctionnement professionnel avec intégrité.
- 3) Finehope effectuera toutes les analyses de test, puis élaborera des normes de test pour réduire les conflits de normes de qualité entre clients et fabricants.
- 4) Mode de gestion de la production au plus juste.
- 5) Aider les clients à développer et concevoir de nouveaux produits.
- 6) Possède une riche expérience dans la conception et le traitement de produits en PU.
- 7) Finehope est une entreprise de haute technologie en Chine avec une technologie de brevets d'invention nationale et internationale et intellectuelle propriété.

### 3. Quelle est la différence entre Finehope et ses pairs nationaux ?

- 1) Assurance qualité : planification avancée de la qualité (APQP).

- 2) Finehope possède une riche expérience au service des grandes entreprises internationales.
- 3) A une équipe de recherche scientifique professionnelle en polyuréthane.
- 4) Possède une capacité de conception, de fabrication et d'innovation indépendante des équipements de production et des moules.
- 5) A une équipe d'ingénieurs responsable du système d'assurance qualité et du contrôle qualité.

#### **4. Quelles sont les différences entre Finehope et ses homologues européens et américains ?**

- 1) A une chaîne d'approvisionnement de soutien parfaite et mature.
- 2) Réduction des coûts de moule.
- 3) Haute efficacité de la capacité de développement et de conception et temps de traitement court.
- 4) Avantage de coût et bonne attitude de service.

#### **5. Quelles sont les applications des produits PU ?**

Voiture, machines d'ingénierie, équipement de fitness sportif, machines médicales et articles ménagers quotidiens, etc.



## About us









Our Certification







### Alibaba Verified Supplier Certificate

Since 2007, Finehope has continuously passed TUV certification and has become an Alibaba Verified Supplier. 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.



### Integration of 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 industry, and good corporate reputation, then issue this certificate. It is a proof that Finehope stands out among thousands of small and medium-sized enterprises in the city.



### Work Safety Standardization Certificate

Manufacturing safety is important to prevent or lessen the risk of workplace injury, illness, and death. 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 damage 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 Giant. This certificate was jointly issued by five departments of the Xiamen Municipal Government. 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. It can be seen that 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 20-20. "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.



### 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, veterinary drugs, tobacco and other radiation emitting products. Finehope has passed 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.

# Quality Assurance



UNIVERSAL TESTING MACHINE(UTM)



Tensile Test



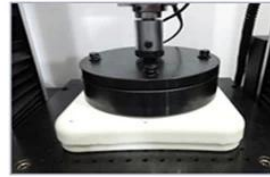
Tear Resistance Test



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 group | Customer Sample Unit |      |      |      |         |                    |
|-----|-----------|-------------------|---------------|----------------------|-----------------------|----------------------|------|------|------|---------|--------------------|
|     |           |                   |               |                      | 1                     | 2                    | 3    | 4    | 5    | Average | Standard Deviation |
| 1   | Density   | g/cm <sup>3</sup> | ASTM D2014    | 1.10                 | 1.10                  | 1.10                 | 1.10 | 1.10 | 1.10 | 1.10    | 0.00               |
| 2   | Hardness  | HRB               | ASTM D2014    | 80                   | 80                    | 80                   | 80   | 80   | 80   | 80      | 0.00               |
| 3   | Strength  | MPa               | ASTM D2014    | 10                   | 10                    | 10                   | 10   | 10   | 10   | 10      | 0.00               |
| 4   | Impact    | J/m <sup>2</sup>  | ASTM D2014    | 10                   | 10                    | 10                   | 10   | 10   | 10   | 10      | 0.00               |
| 5   | Modulus   | GPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 6   | Strength  | MPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 7   | Modulus   | GPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 8   | Strength  | MPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 9   | Modulus   | GPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 10  | Strength  | MPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 11  | Modulus   | GPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 12  | Strength  | MPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 13  | Modulus   | GPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 14  | Strength  | MPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 15  | Modulus   | GPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 16  | Strength  | MPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 17  | Modulus   | GPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 18  | Strength  | MPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 19  | Modulus   | GPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |
| 20  | Strength  | MPa               | ASTM D2014    | 1.0                  | 1.0                   | 1.0                  | 1.0  | 1.0  | 1.0  | 1.0     | 0.00               |

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 test specimen in the same background color. The blue rod is the test specimen in the same background color.

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.

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

|                          |            |
|--------------------------|------------|
| <b>Project</b>           |            |
| <b>Finehope Contact</b>  | Wendy Yang |
| <b>Part No.</b>          |            |
| <b>Part Name</b>         | G1019Y04   |
| <b>Change Level/Date</b> |            |
| <b>User Plant(s)</b>     | Finehope   |

| Core Team Members | Company/Title   | Phone/Fax/E-Mail   |
|-------------------|-----------------|--|
| Tiger Xu          | G.M.            |  |
| Yibin 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<br>Y<br>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<br>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<br>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 sink, 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<br>2015/09/10                | stipulate the cup use egg cell methods to put the packing which do not squeeze each other   | 8             | 1                      | 3   | 24 |

H-R-P-001-1

## Process Failure Mode and Effects Analysis (PFMEA)

### 潜在失效模式和后果分析

FMEA No.FMEA20150325-01

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Maint:Wenhong-Huang

FMEA Date (Original):2015.03.25

Item:Welding Improvement

Process Responsibilities: Production welding group

Model year/project

Key Dates

| Item<br>项目    | Potential failure mode<br>潜在失效模式  | Potential consequences of failure modes<br>失效的后果/潜在失效影响  | 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/预防                             | Detection rate<br>探测率 | RPN | Suggest measures<br>建议措施   | Responsibility and target completion date<br>责任及完成日期 | Measure results/测量结果                   |                 |                       |                         |
|---------------|---|--|-----------------|-------------|--|--------------------------|--|--|-----------------------|-----|--|--|--|-----------------|-----------------------|-------------------------|
|               |   |  |                 |             |  |                          |  |  |                       |     |  |  | Measures and effective date<br>措施及有效日期 | Severity<br>严重度 | Incidence rate<br>发生率 | Detection degree<br>探测度 |
| Request<br>项目 | Clamping is not in place<br>夹紧不到位   | Welding error, leak, welding deviation, affect the assembly or use function<br>焊接错误、漏焊、焊接偏差, 影响装配或使用功能 | 6               | B           | ● Staff negligence<br>人员疏忽<br>● Failure for bad<br>器具定位不准                                    | 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>岗前培训<br>● Regular maintenance<br>定期维护   |  | 6                                      | 3               | 4                     | 72                      |
|               | Clamping (clamping required is in place, no missing or wrong loaded)<br>夹紧(夹紧要求是在位, 无漏装、错装) | Welding error, leak, welding deviation, affect the assembly or use function<br>焊接错误、漏焊、焊接偏差, 影响装配或使用功能 | 8               | A           | ● Staff negligence<br>人员疏忽<br>● Failure for bad<br>器具定位不准<br>● Failure inaccurate<br>器具定位不准确 | 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>工装定期点检 | Visual inspection<br>目视检查  | 6                     | 192 | ● Pre-service training of staff<br>岗前培训<br>● Regular maintenance<br>定期维护<br>● Make inspection checklist for fixture<br>工装点检清单                    |  | 8                                      | 3               | 4                     | 96                      |
|               | Attachments missing<br>附件缺失   | 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 man<br>终检人员100%全检, 双人  |  | 8                                      | 2               | 2                     | 32                      |
|               | Attachment error<br>附件错误  | Influence assembly<br>影响装配   | 7               | A           | No mistake proofing fixture<br>无防错工装   | 3                        | Make the operation standard book<br>制定作业标准书  | Visual inspection<br>目视检查  | 6                     | 126 | ● Increase the mistake proofing devices<br>增加防错装置<br>● Inspection for final inspection tools<br>终检工装点检   |  | 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、速度设置不合理       | 4                        | ● Welding process guidance making<br>制定焊接工艺指导书<br>● Condition confirmation check<br>加工条件确认<br>● Confirm the failure test on a regular basis<br>定期开展失效试验          | Destructive testing<br>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.<br>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



**Besoin de produits en mousse de polyuréthane , bienvenue contactez-nous.**

Amanda



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