

**DMF/ A  
report**

**FREE**

**Mould**

**3D Design**

**Product Inspection  
Standard Setting**

**Free Product Inspection Standard Setting:**  
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.

**Free Mould Opening:**  
Large order quantity with mould cost free.

**Free 3D Design:**  
Finehope help customer design the desired product or modify the design for free.

**Free DFM/A Report:**  
Finehope will show details and solutions of manufacturability and assemblability through PPT to help customers reduce trouble.



## Capacete de poliuretano de espuma Teakondow Martial Art Protect Head Guard

Categoria: CAPACETE PU

Material: Poliuretano PU - Espuma de Pele Integral

Densidade: 200-250kg / m3

Forma: de acordo com os requisitos do cliente para design de produto e molde personalizado

Cor: Preto, Cinza e Outras cores podem ser personalizadas sob consulta.

Aplicação: Assento de chão para crianças Sit Help

Embalagem: CAIXA PADRÃO

Condições de pagamento: Depósito de 30%, Pagamento e Entrega.

MOQ: 200pcs

Local de envio: China • Fujian • Xiamen

Conheça a certificação: Rosh, Reach, EN71-3, Phthalic 6P

Outros: fábricas de processamento e OEM chinesas, especializadas na produção de produtos de plutônio,

Incluindo Acessórios (Ferro, Madeira, Plásticos, etc.).



**A Finehope OBTEVE O Certificado ISO 9001 Continuamente DESDE 2003.**

### **Certificação IATF16949:**

[Fornecedor de chapelaria médica de poliuretano para rúgbi da China](#) A

Finehope passou na certificação de sistemas de gerenciamento de qualidade automotiva IATF16949 em 2021. Mais de 50 documentos garantem o progresso do desenvolvimento de novos produtos, a qualidade, o tempo de entrega e o custo dos produtos de teste e produção em massa.

Desde a cooperação entre a Finehope e a Caterpillar em 2007, a Finehope usou o sistema de gerenciamento de qualidade automotiva para a introdução de novos produtos, usando as cinco ferramentas de SPC, MSA, FMEA, APQP e PPAP, que ganharam elogios dos executivos da Caterpillar e estabeleceram uma parceria de longo prazo que eu conheço.

»»» Our Advantages



### Recursos de pesquisa e desenvolvimento de material bruto PU

DESDE 2002, a Finehope ESTÁ COMPROMETIDA com o Projeto e Fabricação de Produtos de Espuma Moldada Pu. Pesquisa independente e desenvolvimento de materiais de fórmula e capacidade de produção estável são a base para a garantia de qualidade.

A Finehope PODE AJUSTAR A FÓRMULA DO PRODUTO A QUALQUER MOMENTO DE ACORDO COM AS NECESSIDADES PERSONALIZADAS DOS CLIENTES "Produtos personalizados, como os requisitos de dureza, elasticidade, suporte, toque, densidade, cor e outras propriedades físicas e químicas, e pode fazer requisitos de formulação em conformidade com as leis e regulamentos de vários países. Claro, em uma boa fórmula também deve considerar o melhor desempenho de custo. Para novos projetos, a capacidade de desenvolver formulações de PU é uma condição fundamental Para garantir a qualidade do desenvolvimento do produto, tempo de entrega e custo.



### Capacidade de Gestão Científica

Finehope enfatiza a importância do Sistema Toyota de Produção e do Modelo de Coaching Corporativo para Otimizar a Eficiência Gerencial. Melhoria Contínua A eficiência e qualidade de todos os funcionários, pessoal de gerenciamento e produção foram melhorados de forma eficaz e contínua, os custos de gerenciamento e produção foram continuamente reduzidos, mas mais importante que a eficiência e o custo é o cultivo do crescimento dos funcionários por meio da melhoria contínua, porque esse é o núcleo do desenvolvimento sustentável corporativo.



### Recursos de design e fabricação de equipamentos de automação

[China protetor de cabeça taekwondo fábrica](#) A capacidade da Finehope de projetar e fabricar equipamentos de automação é rara na indústria. Ao participar do projeto de novos equipamentos de mistura de injeção de PU e da transformação de automação da linha de produção, para garantir que, sob a concorrência da China, o dividendo demográfico seja reduzido e os custos de mão de obra continuem a aumentar, a eficiência da produção também pode ser melhorada, os custos de mão de obra e material podem ser reduzidos. Além disso, as capacidades contínuas de design e fabricação de equipamentos essenciais, como acessórios, equipamentos especiais e moldes automáticos, também são as razões pelas quais a Finehope está em uma posição de liderança em todos os aspectos.

A capacidade da Finehope de reduzir custos continuamente e inovar produtos pode ajudar os clientes a agregar maior valor. Portanto, a TI É um parceiro confiável de longo prazo de muitas empresas da Fortune 500 e empresas líderes do setor.



O refinamento da Finehope reduz o problema para os clientes, porque reduz a negligência no sistema de processo humano e a capacidade de experiência profissional continuamente acumulada, o que pode garantir que todos os novos projetos sejam concluídos no menor tempo possível.



# Famous customer

Cooperation experience

Engineering  
Vehicle

BOYD  
CORPORATION

TVH



Honeywell

STIGA

CAT

Medical  
Equipment

Hill-Rom

INVACARE  
Yes, you can.

MAQUET  
GETINGE GROUP

DrPosture

KiMobility

Baby  
Supplies

Bumbo Nuby

bugaboo

chicco

Hatch  
Baby

GRACO

Fitness  
Equipment

STAR TRAC  
expect different.

BOWFLEX

IB&G  
BUILDING PRODUCTS

ergoDRIVEN

NUVA

Other

PANDORA  
UNFORGETTABLE MOMENTS

Cubefit

Knoll

## Perguntas frequentes

### 1. Por que você escolheu Finehope?

[China fabricante de capacetes](#) Finehope é o fabricante de PU mais profissional da China, que possui uma equipe profissional de P & D, equipamento avançado de produção de PU, equipamento de teste profissional e sistema de gerenciamento de qualidade perfeito. Temos 12 anos de experiência em cooperação com Cat, Fiat, TVH, Stiga e outras empresas famosas. Nós fornecemos a eles um serviço de uma etapa, de P & D à produção, para satisfazer suas necessidades de personalização.

### 2. Quais são as vantagens de escolher Finehope?

- 1) garantia de qualidade do produto, garantia de entrega, bom serviço pós-venda.
- 2) Eficiência de desenvolvimento rápida e econômica, operação profissional com integridade.
- 3) A Finehope conduzirá todas as análises de teste e, em seguida, elaborará os padrões de teste para reduzir a disputa de padrão de qualidade entre Clientes e Fabricantes.
- 4) Modo de gerenciamento de produção enxuta.
- 5) Ajude os clientes a desenvolver e projetar novos produtos.
- 6) tem uma rica experiência em design e processamento de produtos pu.
- 7) Finehope é uma empresa de alta tecnologia na China com patentes de invenção doméstica e internacional e tecnologia intelectual propriedade.

### 3. Quais são as diferenças entre Finehope e pares domésticos?

- 1) Garantia da Qualidade: Planejamento Avançado da Qualidade (APQP).
- 2) Finehope tem uma rica experiência em servir grandes empresas internacionais.

- 3) Possui Equipe de Pesquisa Científica Profissional de Material de Poliuretano.
- 4) Possui capacidade independente de design, fabricação e inovação de equipamentos e moldes de produção.
- 5) POSSUI EQUIPE DE ENGENHEIROS RESPONSÁVEIS PELO SISTEMA DE GARANTIA DA QUALIDADE E CONTROLE DA QUALIDADE.

#### **4. Quais são as diferenças entre o Finehope e os pares europeus e americanos?**

- 1) Possui cadeia de suprimentos de suporte perfeita e madura.
- 2) Menores custos de molde.
- 3) Alta eficiência de desenvolvimento e capacidade de design e tempo de processo curto.
- 4) Vantagem de custo e boa atitude de serviço.

#### **5. Quais são as aplicações dos produtos Pu?**

Carro, máquinas de engenharia, equipamentos de ginástica esportiva, máquinas médicas e utensílios domésticos diários e assim por diante.



## 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 (unit)	Customer Sample (unit)	
				1	2	Average	
1	Density	g/cm <sup>3</sup>	ASTM D2014	1.10	1.10	1.10	1.10
2	Hardness	HR	ASTM D2014	50	50	50	50
3	Strength	MPa	ASTM D2014	10	10	10	10
4	Impact	J/m <sup>2</sup>	ASTM D2014	10	10	10	10
5	Modulus	GPa	ASTM D2014	1.0	1.0	1.0	1.0
6	Strength	MPa	ASTM D2014	1.0	1.0	1.0	1.0
7	Strength	MPa	ASTM D2014	1.0	1.0	1.0	1.0
8	Strength	MPa	ASTM D2014	1.0	1.0	1.0	1.0
9	Strength	MPa	ASTM D2014	1.0	1.0	1.0	1.0
10	Strength	MPa	ASTM D2014	1.0	1.0	1.0	1.0

FIG. 1. In order to make the strength of two steel rods can be compared, set of the test specimen in the same thickness (about 5mm) and test area in one side to do the tensile strength test comparison.  
 2. For the specific grade value in the above test result, it is the value of specimen with size in one side, and the actual value of the whole sample.

**Finehope**  
**Test Report** No. 00201457201 Date: 20140723 Page 3/4  
 Customer: CUSTOMER SERVICE DEPARTMENT

**Sketch Picture**

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	cindy@finehope.com
Liangquan Wan	Project Manager	
Wendy Yang	Sales	wendy@finehope.com

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

APQP Deliverable	Finehope APQP Reference Only	G Y R	Project Need Date	Supplier Timing Date	Actual Closure Date	Supplier Lead Resp Inits	Finehope Acceptance Complete	Remarks or Assistance Required
1. Project Timeline (Synchronized w/Production Time Plan)	2030	G	20-Jun-21	21-Jun-21	21-Jun-21	22-Jun-21	23-Jun-21	/
2. Customer Inputs / Requirements	2030	G	23-Jun-21	24-Jun-21	24-Jun-21	25-Jun-21	26-Jun-21	/
3. Warranty & Quality Mitigation Plan	2030	G	24-Jun-21	25-Jun-21	25-Jun-21	26-Jun-21	27-Jun-21	/
4. Customer Specific Requirements	2030	G	25-Jun-21	26-Jun-21	26-Jun-21	27-Jun-21	28-Jun-21	/
5. Design FMEA	2080	G	26-Jun-21	27-Jun-21	27-Jun-21	28-Jun-21	29-Jun-21	/
6. Preliminary Bill of Materials (BOM)	2030	G	27-Jun-21	28-Jun-21	28-Jun-21	29-Jun-21	30-Jun-21	/
7. Prototype Control Plans	2110	G	28-Jun-21	29-Jun-21	29-Jun-21	30-Jun-21	1-Jul-21	/
8. Prototype Builds	2110	G	29-Jun-21	30-Jun-21	30-Jun-21	1-Jul-21	2-Jul-21	/
9. Design Verification Plan & Report (DVP&R)	2120	G	30-Jun-21	1-Jul-21	1-Jul-21	2-Jul-21	3-Jul-21	/
10. Design / Process Review	2130	G	1-Jul-21	2-Jul-21	2-Jul-21	3-Jul-21	4-Jul-21	/
11. Team Feasibility Commitment	2130	G	2-Jul-21	3-Jul-21	3-Jul-21	4-Jul-21	5-Jul-21	/
12. APQP Status Sub-Supplier	2130	G	3-Jul-21	4-Jul-21	4-Jul-21	5-Jul-21	6-Jul-21	/
13. Production Drawing & Specifications	2220	G	4-Jul-21	5-Jul-21	5-Jul-21	6-Jul-21	7-Jul-21	/
14. Subcontractor Purchase Orders (Customer Tooling)	2220	G	5-Jul-21	6-Jul-21	6-Jul-21	7-Jul-21	8-Jul-21	/
15. Facilities, Equipment, Tools and Gages	2260	G	6-Jul-21	7-Jul-21	7-Jul-21	8-Jul-21	9-Jul-21	/
AIAG APQP Phase 3 - Process Design and Development								
16. Product/Process and Quality System Review	3030	G	9-Jul-21	10-Jul-21	10-Jul-21	10-Jul-21	11-Jul-21	/
17. Manufacturing Process Flow Chart	3040	G	11-Jul-21	12-Jul-21	12-Jul-21	12-Jul-21	13-Jul-21	/
18. Process FMEA	3100	G	13-Jul-21	14-Jul-21	14-Jul-21	14-Jul-21	15-Jul-21	/
19. Pre-Launch Control Plan	3110	G	15-Jul-21	16-Jul-21	16-Jul-21	16-Jul-21	17-Jul-21	/
20. Process Work Instructions	3120	G	17-Jul-21	18-Jul-21	18-Jul-21	18-Jul-21	19-Jul-21	/
21. Measurement Systems Evaluation	3130	G	19-Jul-21	20-Jul-21	20-Jul-21	20-Jul-21	21-Jul-21	/
22. Packaging Specifications & Approvals	3160	G	21-Jul-21	22-Jul-21	22-Jul-21	22-Jul-21	23-Jul-21	/
23. Manufacturing Team Training	3170	G	23-Jul-21	24-Jul-21	24-Jul-21	24-Jul-21	25-Jul-21	/
AIAG APQP Phase 4 - Product and Process Validation								
24. Subcontractor PPAP Approval	4005	G	9-Jul-21	10-Jul-21	10-Jul-21	10-Jul-21	11-Jul-21	/
25. Production Control Plan	4008	G	11-Jul-21	12-Jul-21	12-Jul-21	12-Jul-21	13-Jul-21	/
26. Production Readiness Review (PRR)	4009	G	13-Jul-21	14-Jul-21	14-Jul-21	14-Jul-21	15-Jul-21	/
27. Production Trial Run (PTR)	4010	G	15-Jul-21	16-Jul-21	16-Jul-21	16-Jul-21	17-Jul-21	/
28. Process Capability Studies	4030	G	17-Jul-21	18-Jul-21	18-Jul-21	18-Jul-21	19-Jul-21	/
29. Production Validation Plan & Report (PV&R)	4090	G	19-Jul-21	20-Jul-21	20-Jul-21	20-Jul-21	21-Jul-21	/
30. Production Part Approval (PPAP)	4110	G	21-Jul-21	22-Jul-21	22-Jul-21	22-Jul-21	23-Jul-21	/
AIAG APQP Phase 5 - Feedback, Assessment and Corrective Action								
31. Initial Production Shipment	5005	G	20-Jul-21	30-Jul-21	30-Jul-21	30-Jul-21	31-Jul-21	/
32. Production Ramp-up Plan	5005	G	31-Jul-21	2-Aug-21	2-Aug-21	2-Aug-21	3-Aug-21	/
33. Full Production Date	5005	G	5-Aug-21	7-Aug-21	7-Aug-21	7-Aug-21	8-Aug-21	/
34. Conduct Lessons Learned	5005	G	8-Aug-21	10-Aug-21	10-Aug-21	10-Aug-21	11-Aug-21	/

## Design Failure Mode and Effects Analysis (Design FMEA)

FMEA No.:  
DFMEA-001

Page: page 1, totally 3 pages  
Made: Xiaodong Qiu

Product Name: Injection moulding

Procedure responsible dept: Production Dept

Model year/vehicle types: CRV

Soybean Milk Maker

Important date: Nov.10th,2015

FMEA Date: Nov.10th,2015

People participated: Develop dept:GaoLin Wei

Sales:Haiyan Wu

PC:Jiannan Yan

Technology Dept:Jianyu Zhou

Purchaser:Yuanyuan Gou

Production dept:Shuwen Dong

QC:Bingxiang Zheng

procedure function requirements	Potential failure mode	Potential effects analysis	severity (S)	grade	potential causes/mechanisms of failure	frequency (O)	Current prevention process control	Current detection process control	detection (D)	RPN	recommended measures	Responsibility and target completion date	action results				
													severity (S)	frequency (O)	difficult to check (D)	RPN	
scyphus	size changes of handle	handle cover fall off	6	A	PP size change	6	By adjusting the product of the injection molding process, and measure or test the clasp of product size	measure and test product size	3	108	Add the number of button bit in handle design, in order to keep the connection strength	Xiaodong Qiu 2015/08/25	By adjusting the product of the injection molding process, and measure or test product size	6	1	1	6
scyphus	warping of scyphus handle	Poor appearance break	4	C	high handle wall	6	Add the stiffener to handle wall to prevent deformation	measure and test product size	2	48	if this problem appears, make improvement by Adding the stiffener	Xiaodong Qiu 2015/09/30	Add the stiffener to handle wall to prevent deformation	4	2	1	8
scyphus	Deformation of cup-mouth	Micro switch without power	8	A	PP material deformation, Resulting in a perpendicular direction to connect the cup and handle inward deformation, So that both sides of the 球, the micro switch column opposite sink., and	3	Adjust the injection molding process, to prevent extrusion	measure and test cup-mouth size	3	72	in the cup packing control the direction of the lateral dimension of no force, stipulate the way of packing	Xiaodong Qiu 2015/09/10	stipulate the cup use egg cell methods to put the packing which do not squeeze each other	8	1	3	24

H-R-P-001-1

## Process Failure Mode and Effects Analysis (PFMEA)

### 潜在失效模式和后果分析

FMEA No.FMEA20150325-01

Page 3

Maintainer:Wenhong-Huang

FMEA Date (Original):2015.03.25

Item:Welding Improvement

Process Responsibilities: Production welding group

Model year/project

Key Dates

Item 项目	Potential failure mode 潜在失效模式	Potential consequences of failure modes 失效后果	Severity 严重度	Grade 等级	Potential causes of failure 失效原因	Occurrence 发生频度	Current process control and prevention 现行过程控制/预防	Current process control detection 现行过程控制/检测	Detection rate 检测率	RPN	Suggest measures 建议措施	Responsibility and target completion date 负责人及目标日期	Measure results 措施结果			
													Measures and effective date 措施及有效日期	Severity 严重度	Incidence rate 发生率	Detection degree 可检测度
Clamping (Clamping required is in place, no missing or wrong loaded) 夹紧 (夹紧到位, 无漏装, 错装)	Clamping is not in place 夹紧不到位	SizeNG 尺寸不良	6	B	● Staff negligence 人员疏忽 ● Failure for bad 器具/物料不良	4	● Make the operation standard book 制定作业标准书 ● Make maintenance standards, regular maintenance 制定保养标准, 定期保养, 维护 ● Make the operation standard book 制定作业标准书	● Visual inspection 目视检测 ● Finished 100% full inspection 完成100%全检	6	144	● Pre-service training of staff 岗前培训 ● Regular maintenance 定期保养/维护		6	3	4	72
	Clamping required is in place, no missing or wrong loaded	Welding error, leak, welding deviation, affect the assembly or use function 焊接错误, 漏焊, 焊接偏差, 影响装配/使用功能	8	A	● Staff negligence 人员疏忽 ● Failure for bad 器具/物料不良 ● Failure inaccurate 器具定位不准确	4	● Make the operation standard book 制定作业标准书 ● Make maintenance standards, regular maintenance 制定保养标准, 定期保养, 维护 ● Regular checking of fixture 定期检查夹具	Visual inspection 目视检测	6	192	● Pre-service training of staff 岗前培训 ● Regular maintenance 定期保养/维护 ● Make inspection checklist for fixture 制定夹具检查清单		8	3	4	96
	Attachme mis missing 附件漏装/错装	Affect product strength or influence the assembly 影响产品强度/影响装配	8	A	Staff negligence 作业人员疏忽	3	Make the operation standard book 制定作业标准书	Visual inspection 目视检测	4	96	Final inspection personnel do 100% full inspection for each bead with man 终检人员100%全检, 抽检		8	2	2	32
	Attachme not error 附件错误	Influence assembly 影响装配	7	A	No mistake proofing fixture 无防错夹具	3	Make the operation standard book 制定作业标准书	Visual inspection 目视检测	6	126	● Increase the mistake proofing devices 增加防错装置 ● Inspection for final inspection tools 终检工具检测		7	2	4	56
	False welding 假焊	Lack of strength, affect the use of function 强度不足, 影响使用功能	9	A	Current, voltage, welding angle, speed setting is not reasonable 电流, 电压, 焊接角度, 速度设置不合理	4	● Welding process guidance making 制定焊接工艺指导书 ● Condition confirmation check 加工条件确认书 ● Confirm the failure test on a regular basis 定期确认失效试验	Destructive testing 破坏性试验	8	288	After the procedure is set up to confirm the processing conditions, the execution and marking of the failure test is performed. 工序设置完成后确认加工条件, 确认		9	3	4	108



# Production Device

## KRAUSS MAFFEI

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



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



## Self-invented fully automatic production line

Finehope has independently developed a number of fully automatic P-U injection production lines since 2010. These production lines reduce production costs and meet customer delivery requirements.



## Welding Robots



Since 2016, Finehope has continued to purchase welding robots and automatic fixture turntables for welding metal parts. The independent processing of accessories saves the waiting time and procurement cost of outsourcing processing.

## CNC Machine

Finehope has continued to purchase CNC equipment since 2016. CNC (Computer Numerically Controlled) machining is a manufacturing process in which pre-programmed computer software dictates the movement of factory tools and machinery. Using this type of machine versus manual machining can result in improved accuracy, increased production speeds, enhanced safety, increased efficiency and most importantly, help customers save costs and improve product quality.



## Mould Release Agent Painting Robot



Since 2019, Finehope has purchased robots for spraying water-based release agents to improve the working environment, improve spraying quality and material utilization, and reduce labor costs.

## 3D printer

Finehope started to purchase 3D printers in 2015. 3D printing can realize rapid proofing of new product prototypes and templates for resin molds, and can also be used for faster and cheaper small batch production.





# Social Responsibility

- **Audited by Sedex**

(Supplier business ethics information exchange )

Labor standard · health and safety · Environmental protection · Business ethics practice

- **Public-spirited**



Voluntary tree planting after Super Typhoon Meranti in 2016

## A VALUE-BASED COMPANY



CUSTOMER FIRST

TEAMWORK

EMBRACE CHANGES

PASSION

INTEGRITY

COMMITMENT

**Necessidade de produtos de espuma de poliuretano, bem-vindo, entre em contato conosco.**

Amanda



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