



# **Shanghai DE Industrial Co., LTD.**

## **---Precision Casting Factory**



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## Company profile

DE is a growing industrial company with multiple platforms, supplying for global terminal market. It takes leading share of the market and owns highly credited brand.

DE is a manufacturing group integrating research, design, production and sales together. Its top manufacturing factories supply a wide range of products, from various components to finished assemblies.

Annual sales: 16.5 Million US\$.

## Company Size

Fixed Assets: US\$4.2 Million .

Factory Size : 29100 Square Meters .

Building Size: 16800 Square Meters .

Employee: 232 people.

Precision Gear Factory has 94 staff. Precision Valves Factory has 74 staff.

Precision Foundry has 42 staff (5 technical quality engineers and 3 management staff) .

Machinery Processing Factory has 22 staff.



## Main products:

- **Gears** accounting for 39% of sale amount
- **Valves** accounting for 27% of sale amount
- **Precision aluminum castings**  
accounting for 21% of sale amount
- **Other machinery products** accounting for 12% of sale amount

## Management Philosophy:

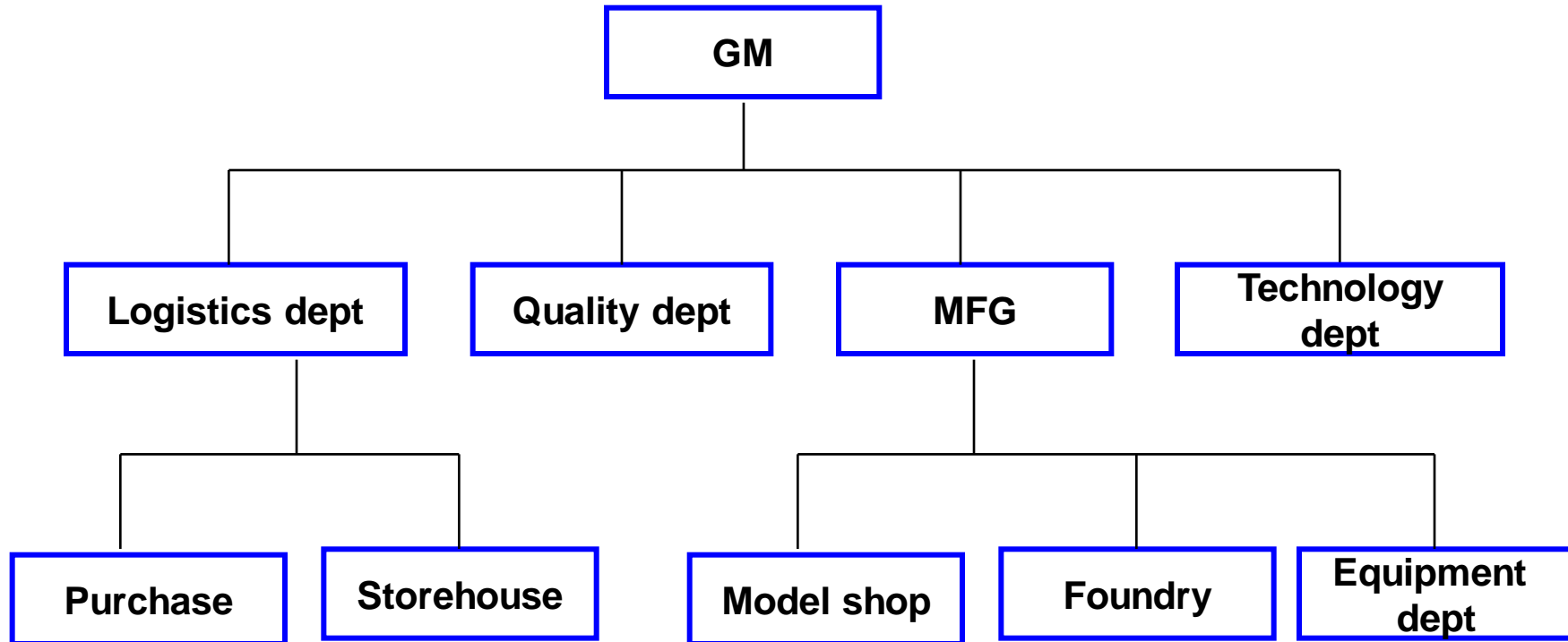
**Quality-oriented ,**  
**Innovation as the power ,**  
**Agility get opportunity.**



## DE organizational structure



## The organizational structure of precision casting factory



## Management mode and system

To promote the management is our continuous objective;

We carry out the institutionalized、standardized、normalized operational management;

Fully use the chance of cooperating with overseas companies to upgrade our quality and management.

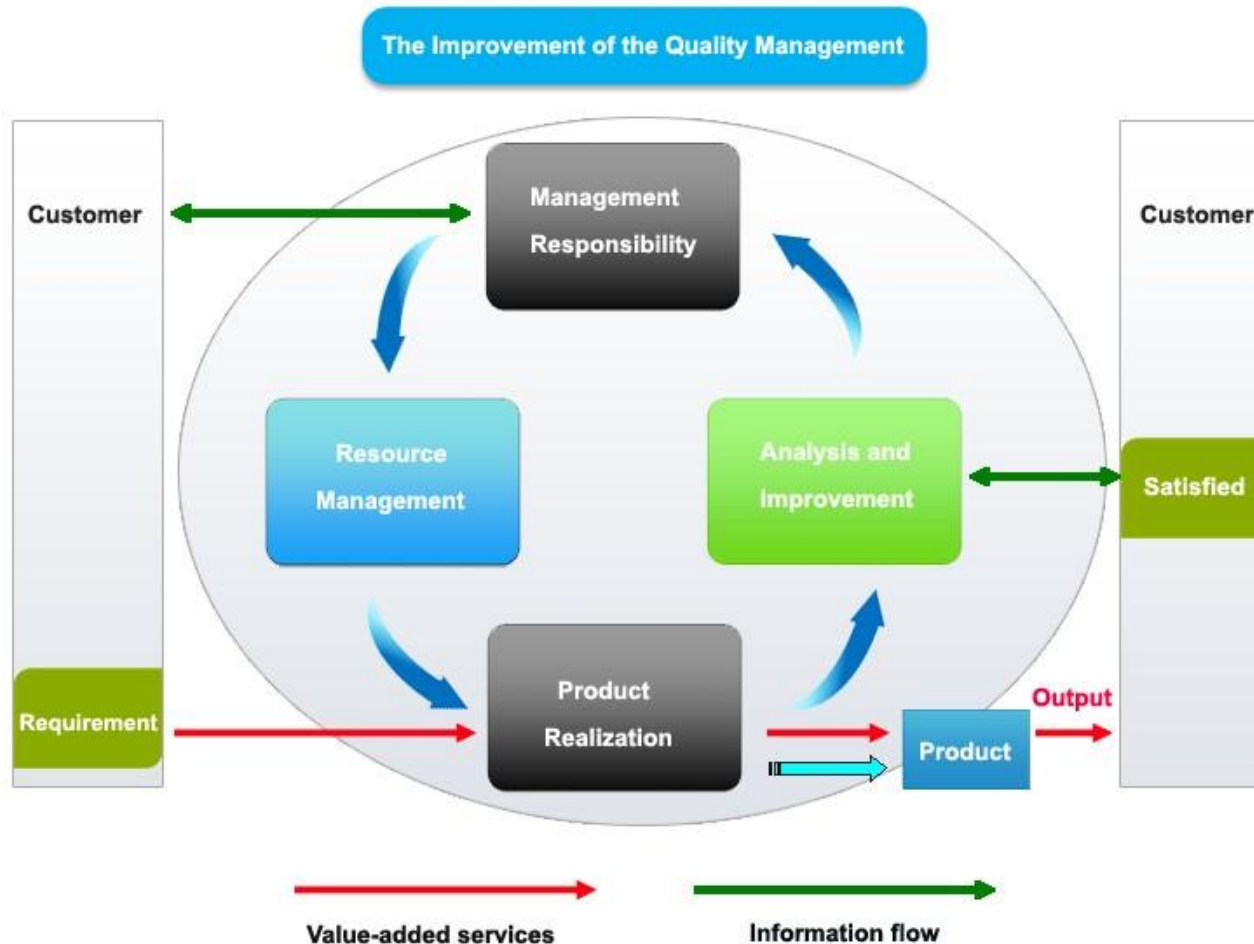


We use ISO 9001:2008 quality system, and pass the system certification by TÜV Rheinland Group. (Certificate number: 01100064733).



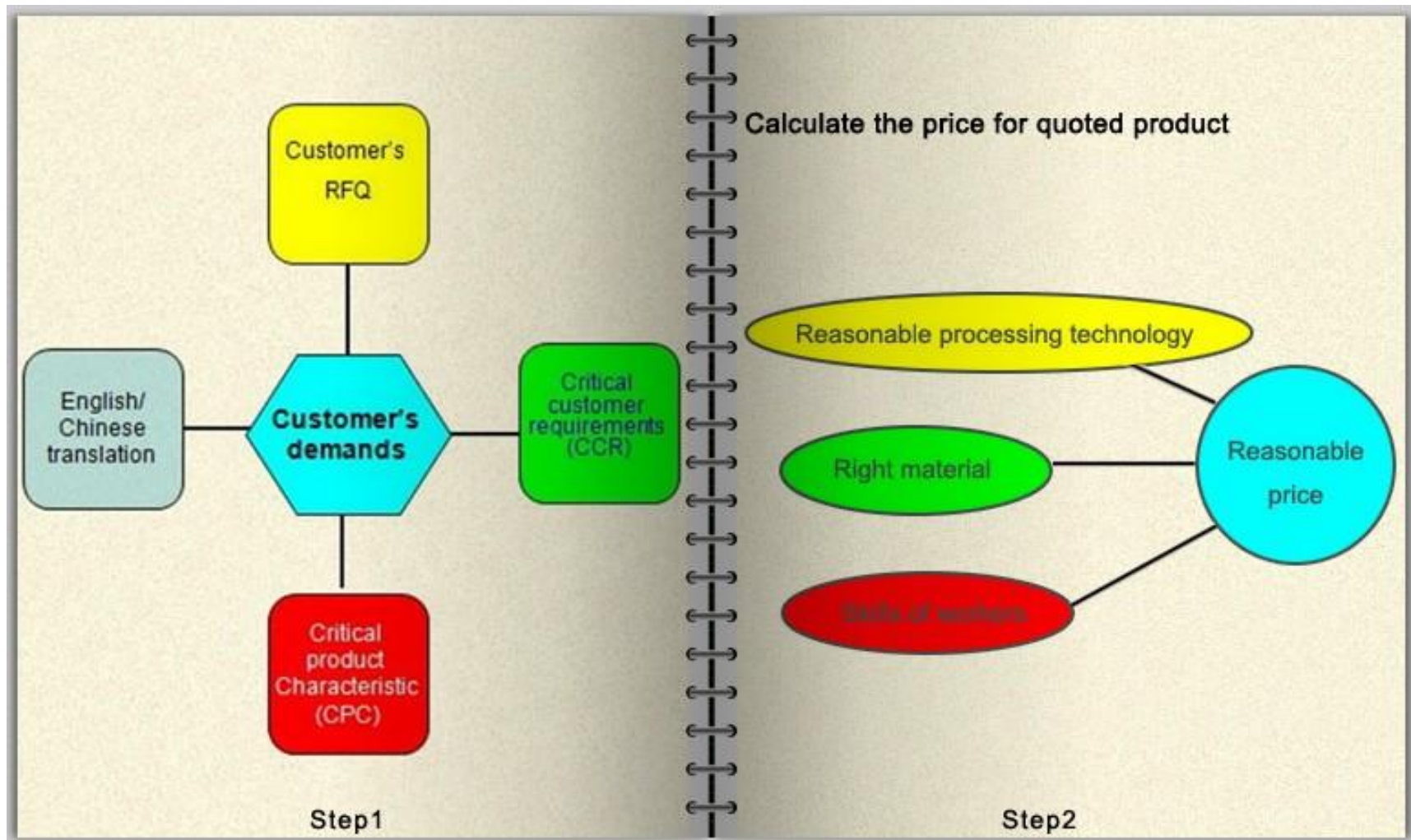
## Management mode and system

We insist on the principle of PDCA continuous cycle improvement, to ensure the system's effectiveness, suitability and adequacy, to meet or exceed customer requirements of the system running effect, in order to meet the customer's product quality.

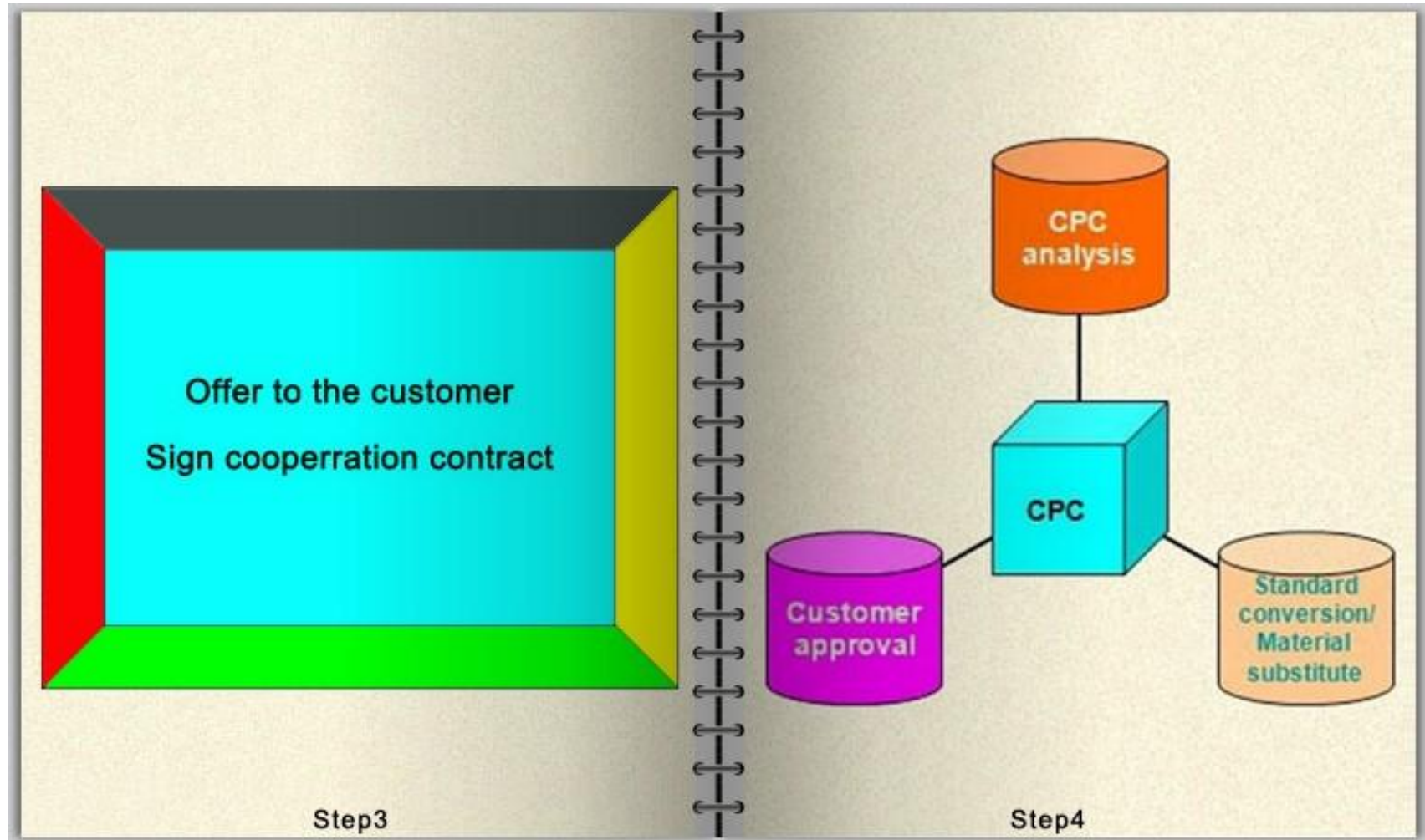




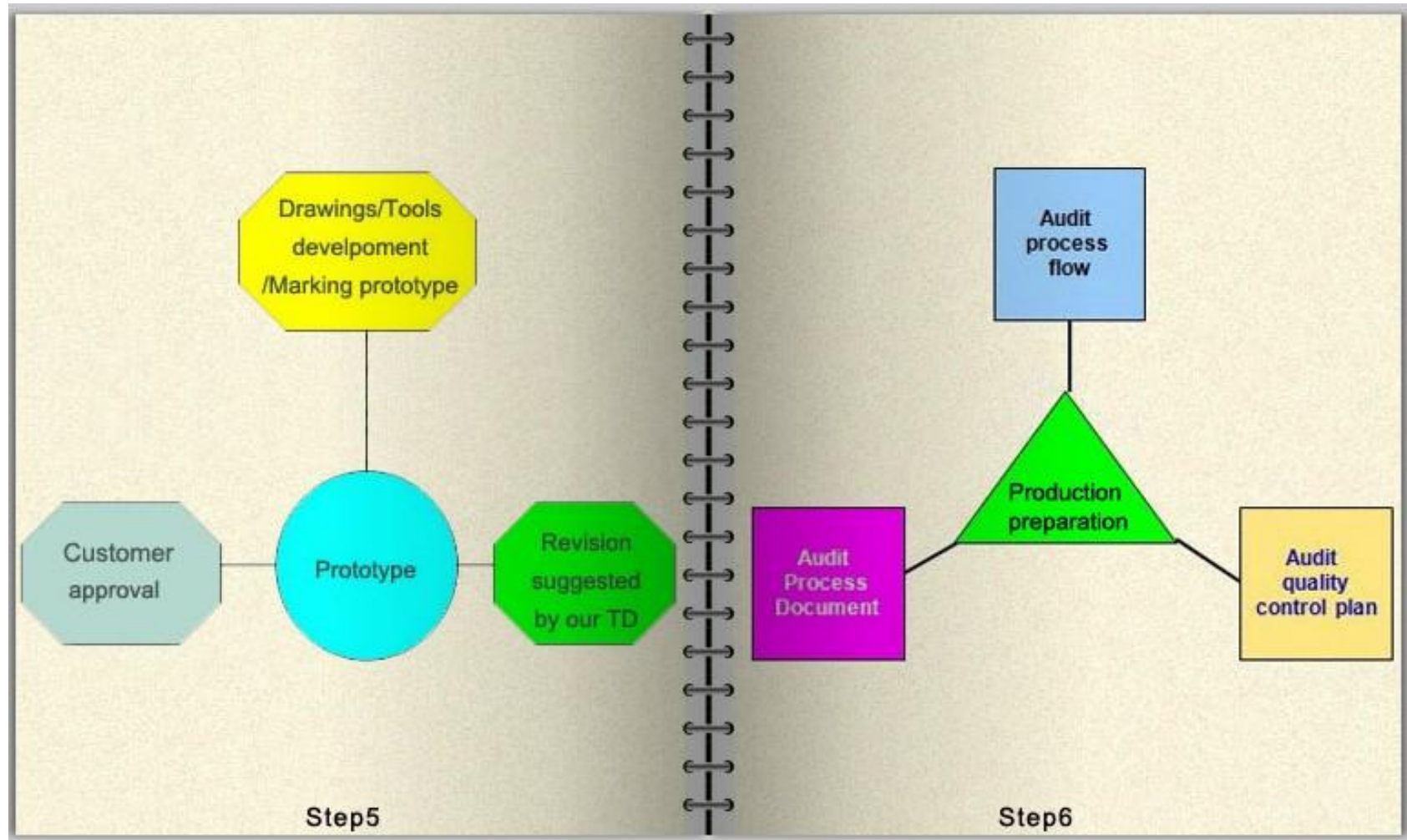
## Project management



## Project management

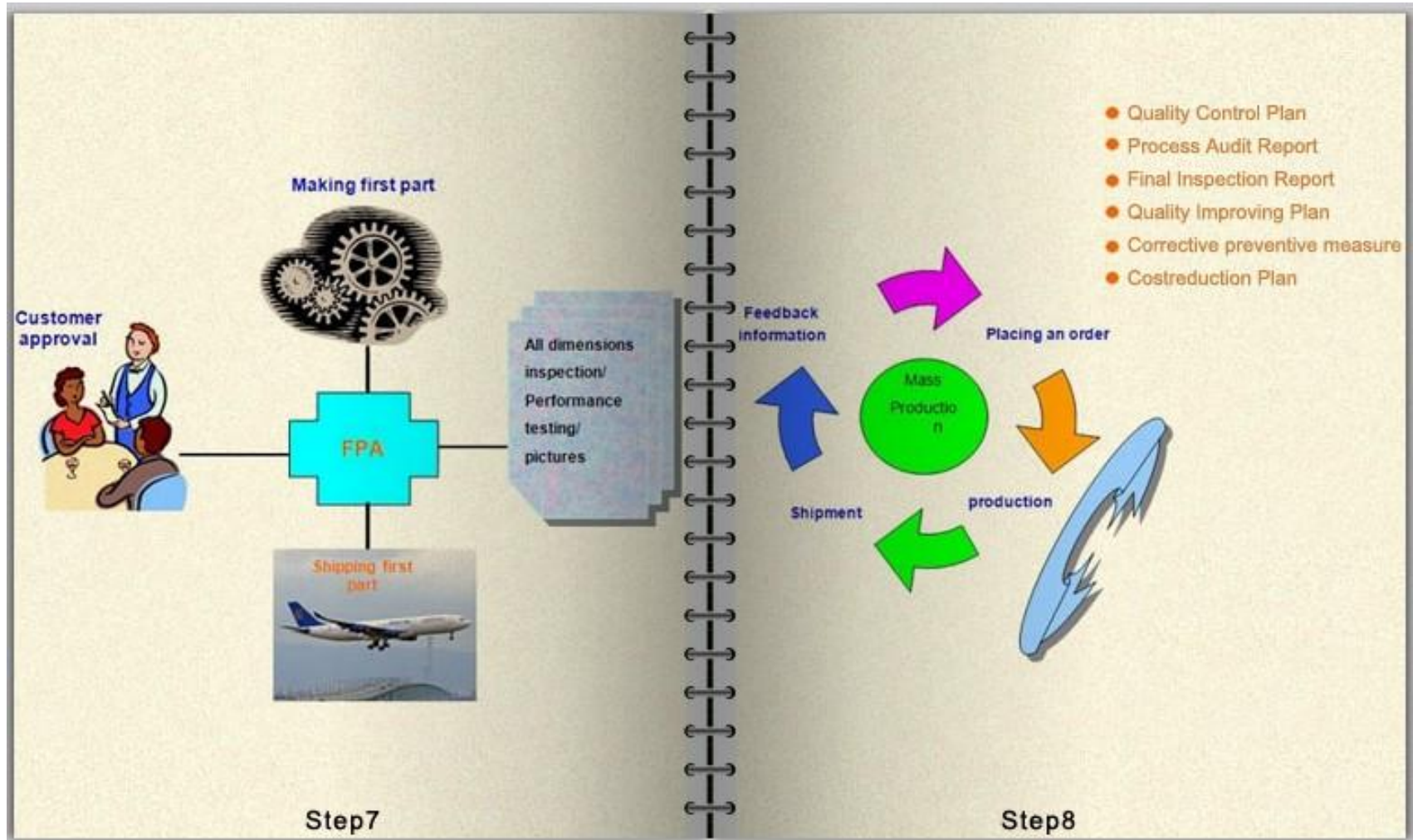


## Project management





## Project management



## The precision casting workshop





## The precision casting workshop



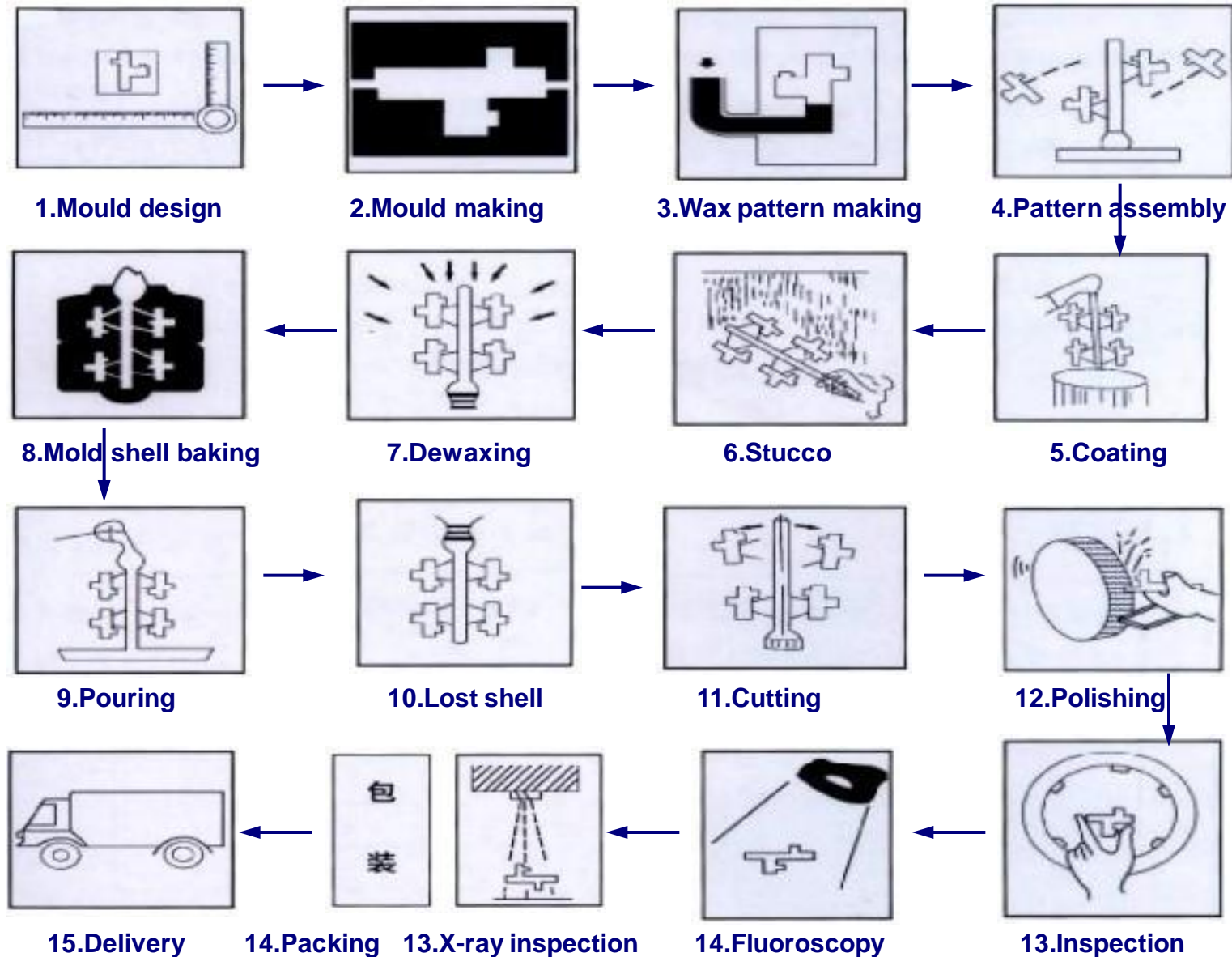


## The precision casting workshop





## Precision aluminum castings--Technical process and process control



## Precision aluminum castings-- Our technical advantage

Designers can focus to  
the function objectives  
of the parts

Casting the combinations,  
whole parts,  
instead of  
welding or assembly

Manufacture  
the complex parts  
that other processes  
can't produce

Maximum increase the similarity  
between the parts and rough

Surface roughness up to 1.6

Min size less than 10mm  
Max size 1000mm×800mm×600mm  
Tolerance up to 0.13mm

Weight reduction

Save processing cost

Improve shock resistance and rigidity

## Precision aluminum castings-- Product pictures

※ Aerospace industry

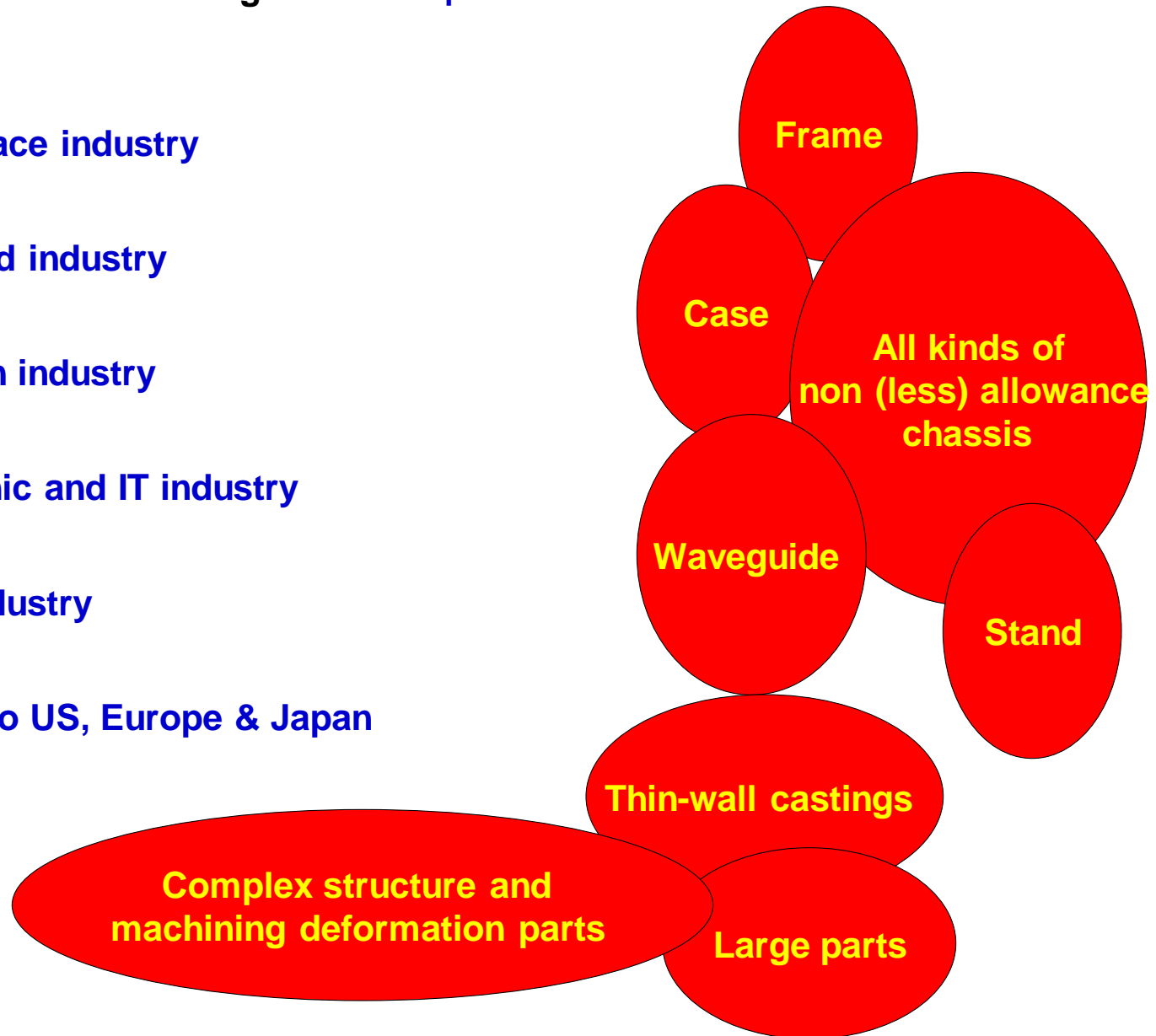
Ø Shipyard industry

※ Weapon industry

Ø Electronic and IT industry

※ Auto industry

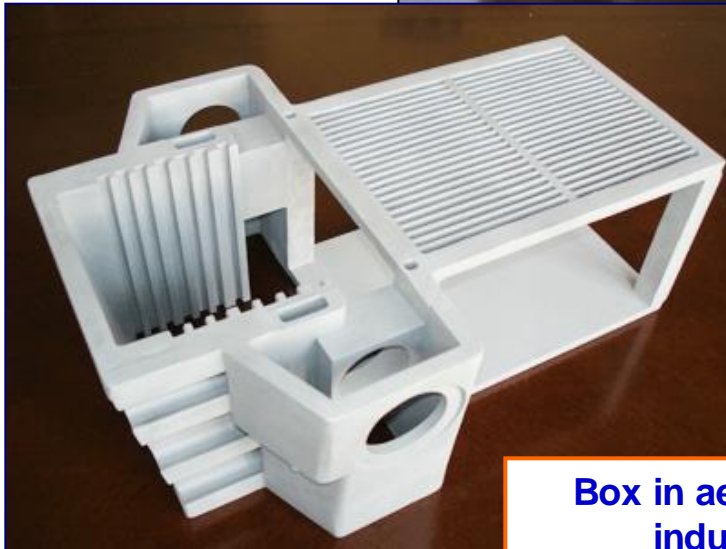
Ø Export to US, Europe & Japan



## Precision aluminum castings-- Product pictures



**Complex structure parts  
for aerospace industry**



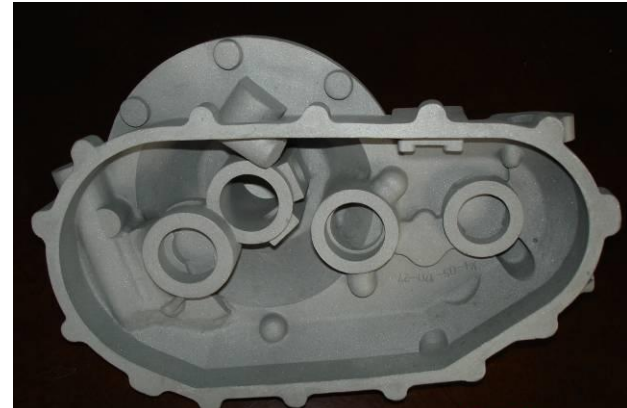
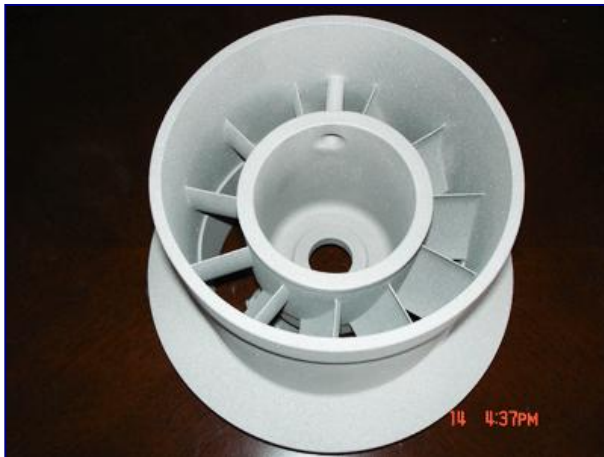
**Box in aerospace  
industry**



## Precision aluminum castings-- Product pictures



**Impellor**

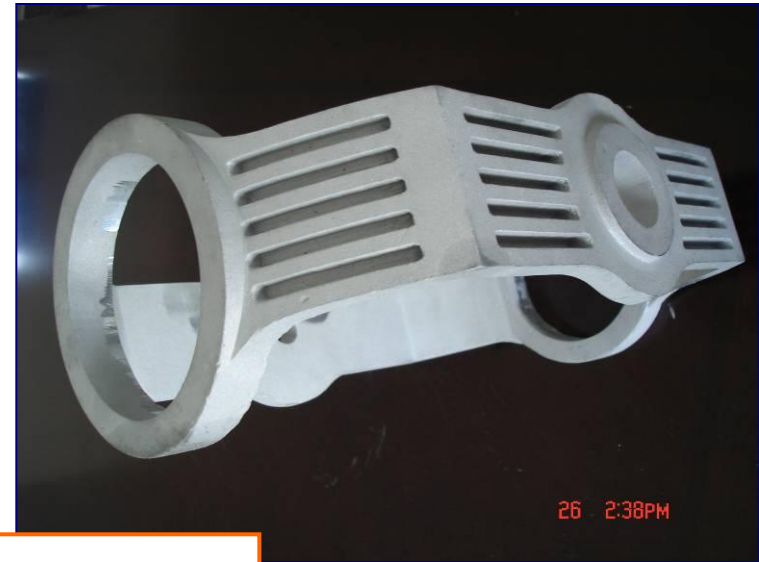


**Box with Complex structure**



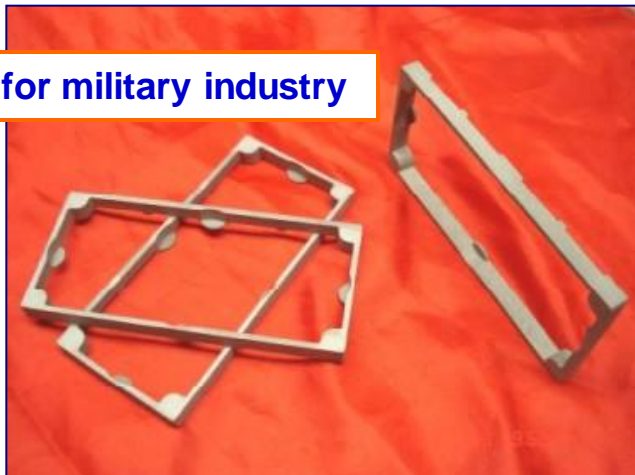


## Precision aluminum castings-- Product pictures



Frame for military industry

Bulkhead for military industry



## Precision aluminum castings-- Product pictures



**thin-wall  
castings**



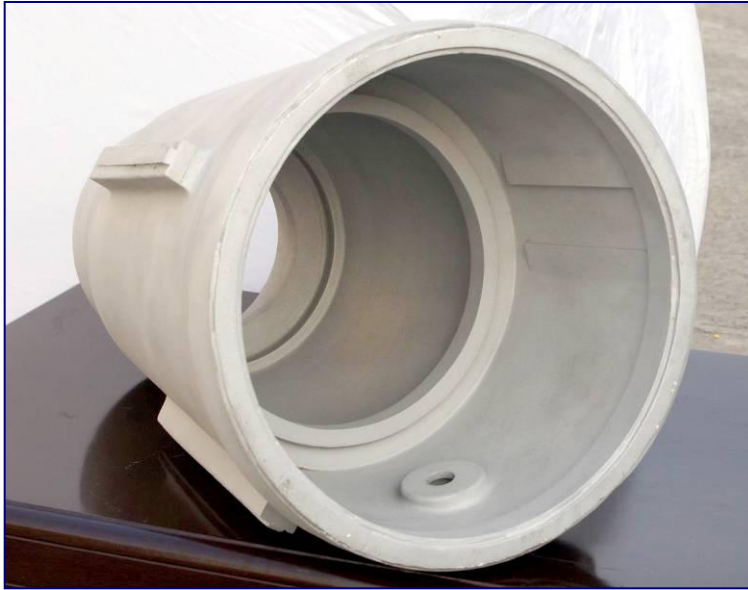


## Precision aluminum castings-- Product pictures

**Parts for  
electronic equipment**



Precision aluminum castings-- Product pictures



**Electric cabin for  
aerospace industry**

## The main production equipments for precision aluminum castings



**LZ-56KW 铝合金固熔炉**  
**Aluminum alloy solid melting pot**

**LZ-27KW 铝合金时效炉**  
**Aluminum alloy aging furnace**



## The main production equipments for precision aluminum castings



**Trolley mould shell baking furnace**  
台车式模壳焙烧炉

## The main production equipments for precision aluminum castings



**DRT type Electro-heating dewaxing kettle**  
电热脱蜡釜

## The main production equipments for precision aluminum castings



**Aluminum melt furnace**  
铝合金熔化炉





## The main production equipments for precision aluminum castings



**FYY10-1**  
**Horizontal wax injector**  
卧式液压蜡模压注机



## The main production equipments for precision aluminum castings

### DYZ-50T Single position wax injector 单工位蜡模压注机



## The main production equipments for precision aluminum castings



**Wax molding 蜡模成型**

## The main production equipments for precision aluminum castings



**Mould perfecting** 修模



**Mould & dies** 各种模具



**SWJ-8 3-dimension revising machine**  
三维校正机



## Process equipments





**High precision cylindrical grinding**



**Honing machine**

## Heat treatment equipment



(Nitriding 、 Thermal refining )





## The main production equipments lists

1. 铝合金固熔炉	Aluminum alloy solid melting pot	
2. 台车式模壳焙烧炉	Trolley mould shell baking furnace	
3. 铝合金熔化炉	Aluminum melt furnace	
4. 电热脱蜡釜	Electro-heating dewaxing kettle	
5. 50T单工位压注机	Single position wax injector	
6. 卧式液压蜡模压注机	Horizontal wax injector	
7. L-型涂料搅拌机	L - type paint mixer	
8. 氩弧焊机	TIG welding machine	
9. 带锯机	Band saw Machine	
10. 双头磨光机	Double-headed grinder	
11. 浮砂机	Floating sand	
12. 铝液净化机	Aluminum liquid purification machine	
13. 双工位喷砂机	Double sandblasting machine	
14. 空气压缩机	Air compressor	
15. SWJ-8	3-dimension revising machine	三维校正机
16. Machining center	加工中心	4 sets
17. CNC Lathe	数控车床	11 sets
18. Lathe	车床	20 sets
19. Drilling machine/ Boring machine / Milling machine		9 sets
20. Gear-making machine	齿轮加工机床	16sets
21. Grinding machine	磨床	5 sets
22. Pit-type nitriding furnace	气体渗氮炉	3 sets
23. High frequency induction heating equipment		2 sets
高频感应加热设备		
24. Wheel-type furnace	台车炉	2 sets
25. Box-type furnace	箱式炉	2 sets

## The main testing equipments for precision aluminum castings



**FC-100F Fluorescence detecting lamp**  
荧光探伤灯



**QXG-1205 X-rays detector**  
射线玻璃探伤



**Metallographic test、Hardness、Physical and chemical inspection**



**Projection detector**

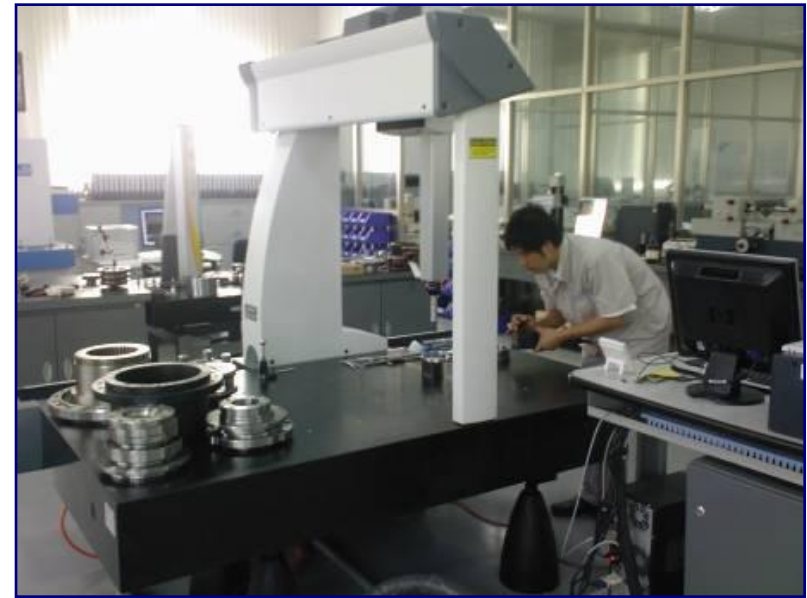


**Spectroanalysis instrument**



**UT**





**CMM**



**Universal tensile testing machine**



**Dynamic balancing machine**

## The main testing equipments list

- 1.X-ray glass detection machine X射线玻璃探伤机
2. FC-100F Fluorescence detecting lamp 荧光探伤灯
- 3.Three-coordinates Measuring Machine 三坐标 1set
4. Spectral Analysis 光谱分析 1set
5. Metallographic Analysis 金相分析 1set
6. Projecting Apparatus 投影仪 1set
7. X-rays apparatus 射线机 1 set
8. Tensile Test Machine 拉伸试验机 1 set
9. Ultrasonic flaw detector 超声波探伤仪 1 set
- 10.Hardness tester 硬度计 1 set
- 11.Dynamic balance machine 动平衡试验机 1 set
12. Spectrophotometer 721 分光光度计 1 set







Thanks for Your Attention!

