

Customer Satisfaction

Welcome to watch DEFU factory PPT

We see the future parts

COMPANY CONFIDENTIAL





Wuhu Factory





General Information (Wuhu):

- 2007 : Wuhu factory was established
- Registered Capital: 6.4 M dollars
- Factory area: 30300 sqm
- Employee: 300
- ◆ 2015: Public in Chinese domestic stock market



Yuhuan Factory





General Information (Yuhuan):

- 2003: Started to produce Power Steering Pump.
- Registered Capital: 4.5 M dollars
- 2015: Yuhuan New factory was built
- Factory area: 10000 sqm
- Employee: 180



Factories Location









Market Situation:









OE Business Situtation:







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DEFU Engineering Capability

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Design Software:

- 2D software: AUTOCAD
- 3D software: Pro/E & UG
- CNC machining software: UG



















Technical Improvement:



OE-Ford Application

Design is complicated, very hard to control the product's reliability. Vane can hurt thrust plate easily and cause noisy

Our Advantage:

After improving the Cam pack design, The vanes do not need to be pressed by external force, it can tough the Cam Ring profile easily when RPM starts and will not hurt the thrust plate and avoid noisy problem .

Validation:

Noise Test: -3dB Life Test: 50K up to 100K cycles

DEFU ALERING Y



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DEFU Production Process

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Production :







- Pump Body
- Back Cover
- Thrust Plate





CNC machine center:

38PCS Harding Brand CNC machines from USA











CNC machine center :



2PCS Automatic CNC machines from Germany, put alloy casting inside

,come out with finished products, and all the sizes are

constantly.



CNC machine center :



DEFU ATTENING PUT



All machining Tools are MAPA brand from Germany for key features



Advantage of using MAPA Tools

- 1: High precision
- 2: High dimensional stability
- 3: high processing efficiency
- 4: Long life Use.







Cam Ring & Rotor Production:





CAM Ring & Rotor Production

Double-sides grinding machine







Washing Machine:



Ultrasonic Automatic Washing Machine

2 times washing process on the machining parts



Wash Outsourcing parts again before assembly



Clean Assembly Room:





1 is

5 Assembly automatic, Lines:

another 4 are manual









Press pulley and flange on:



Automatic pulley and flange fitted machine

Laser machine







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DEFU Quality Control







Testing Center:













Chemical Analysis:





(800x, high power)







Hardness Inspection:



HB-3000 Brinell hardness tester



3D Measuring:



ZEISS 3-D measuring instrument from Germany





Leakage Test:



100% Tested

5 Bar Air pressure

Keep 10 Seconds-no bubble in test liquid





100% performance testing:

- 1: Pressure Stability
- 2: Flow rate at different RPM
- 3: Efficiency Test





Cleanness Inspection:

















Max. pressure at different RPM to verify the noise level based on standard from GB & QC/T299.2-2014





Salt Fog Test:





Temperature and Material Test:



Constant temperature & humidity test



Material pulling force test



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5 Ton

Simulate the pump on the car condition.

100K times lock test at maximum pressure for 2 seconds and then pump has to pass EOL test again.







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DEFU Future

Electric Power Steering

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Image: Ima

DEFU Japanese Branch - ARJ :



4 Japanese EPS experts, 3 are retired from TOYOTA

Mr. Akira has been working on EPS area for more than 30 years in KAYABA-Japan. Led the development and design of Steering System and suspension for car manufacturer like TOYOTA, HONDA, Ferrari, and F1 .

Still providing technical analysis for EPS OE factory in Japan.



EPS Assembly Lines:





EPS Test:





Products Catagory:









- Reliable products.
- Competitive pricing.
- Full Vehicle Applications, more than 1000 applications available, still keep developing without any condition.
- ◆ Fast Leadtime. Delivery Rate -- 98%
- No MOQ requirement for exsiting Refs.
- Service goal Customer Satisfaction. Experienced sales team knows how to provide best service.





Customer Satisfaction

Thanks for giving the chance



