

TRISUN 三兀

TRISUN *Mechanical* PARTS MANUFACTURE



Right For Efficient Clean Green

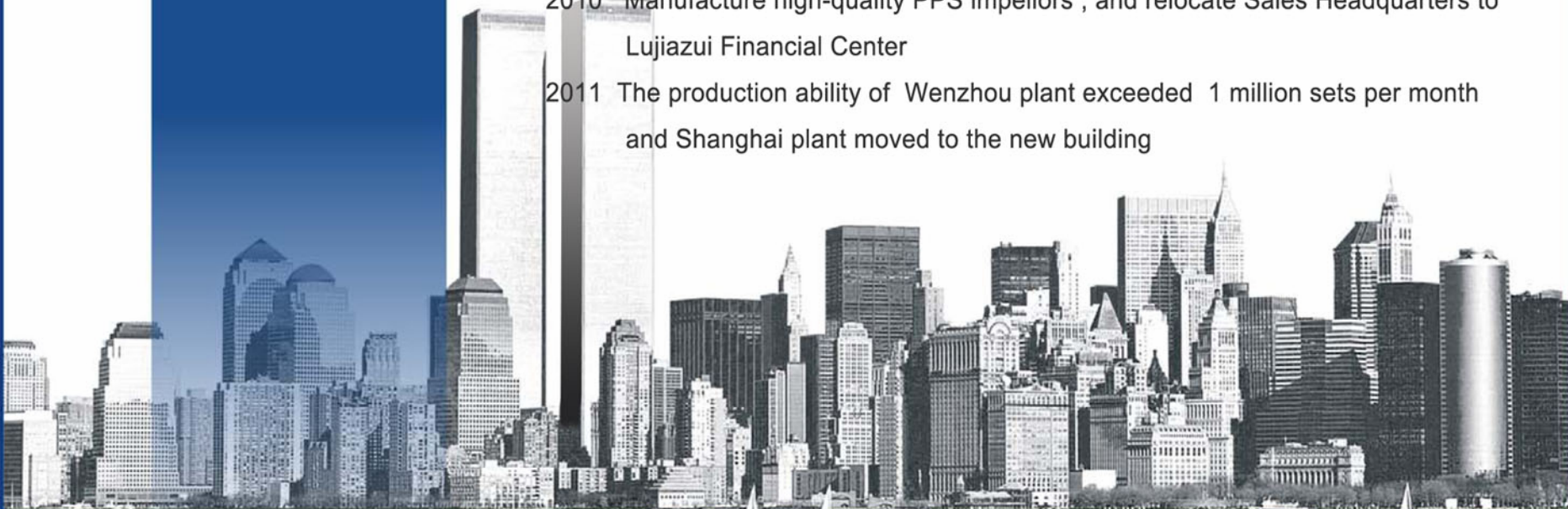
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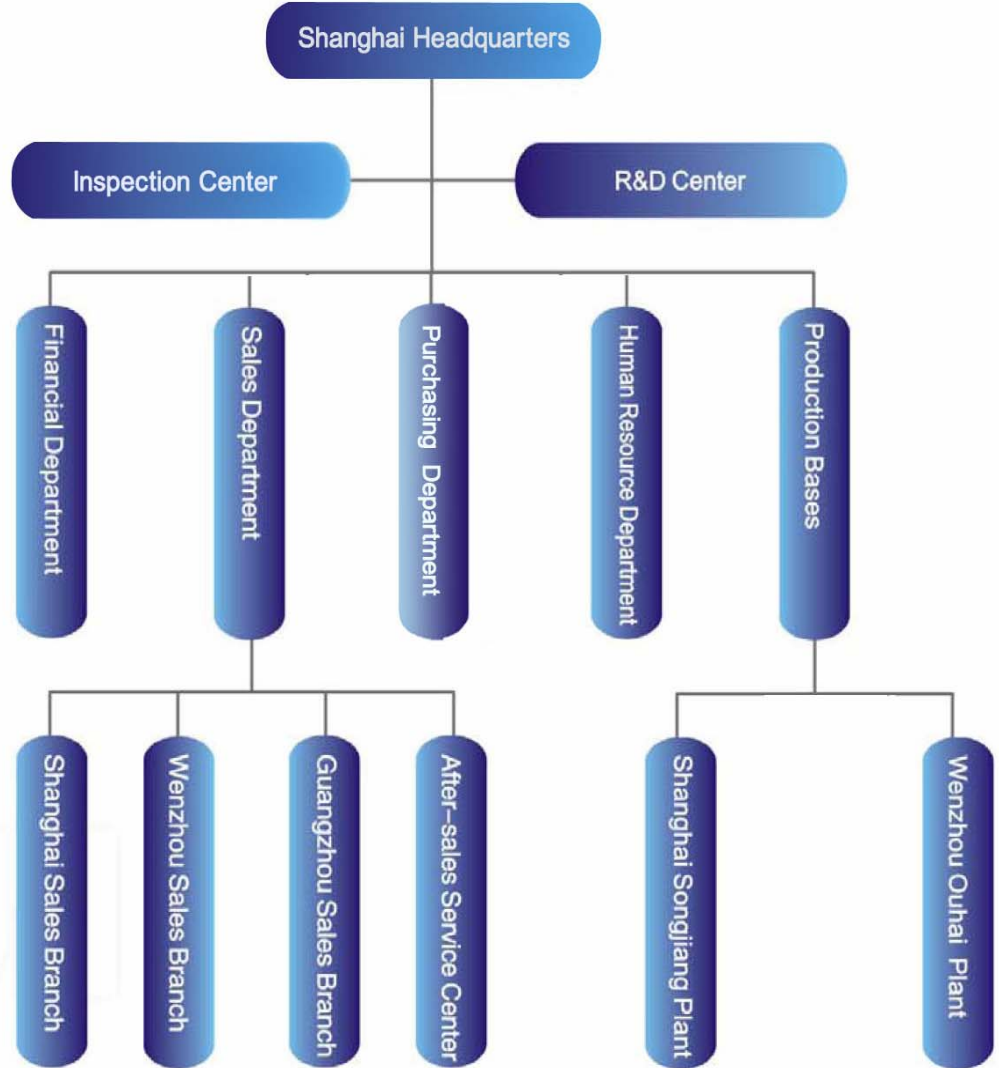


Corporation History

- 1998 Establish Wenzhou Trisun Seal Manufacture Co., Ltd.
- 1999 Pass ISO9001:2000 Certificate
- 2002 Establish Shanghai Trisun Mechanical Parts Manufacture Co., Ltd.
- 2003 Set up Guangzhou Sales Branch
- 2004 Pass TS14001:2004 Environment System Certificate
- 2005 Establish Shanghai Songjiang Plant and equip with the global famous Company
- 2006 Develop and manufacture the metal bellows and cartridge seals
- 2007 Set up the global sourcing center, and new plant in Wenzhou on stream
- 2008 Pass TS16949:2009 Certificate
- 2009 Develop the high technology product -- dry gas seals
- 2010 Manufacture high-quality PPS impellers , and relocate Sales Headquarters to Lujiazui Financial Center
- 2011 The production ability of Wenzhou plant exceeded 1 million sets per month and Shanghai plant moved to the new building



Organizational Structure



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Trisun Mechanical Parts Manufacture

Production and Development Base

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Shanghai Songjiang Plant Square: 30.000m² Employee: 50 person

Wenzhou Ou Hai Plant Square: 15.000m² Employee: 270 person

Trisun Mechanical Parts Manufacture

Sales Distribution



Shanghai Sales Headquarters



Wenzhou Sales Branch



Guangzhou Sales Branch

Trisun Mechanical Parts Manufacture

Products

TRISUN

Automotive



Auto Cooling Pump Seal



Impellers



Air-condition Compressor Seal



Auto Control Valve

Chemistry



Vacuum Welded Metal Bellows



Thermosiphon Vessel



Single-spring Seal

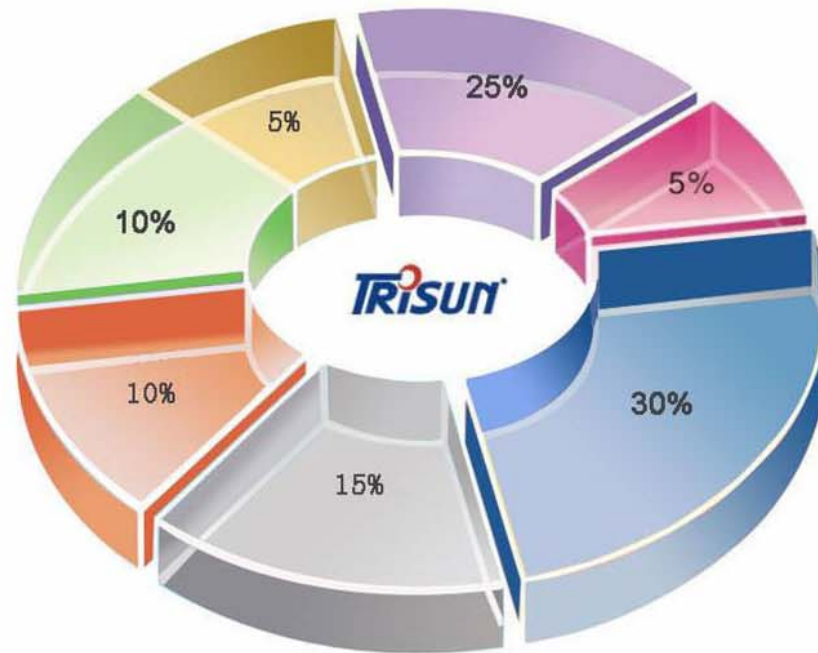


Metal Bellows and Cartridge Seal

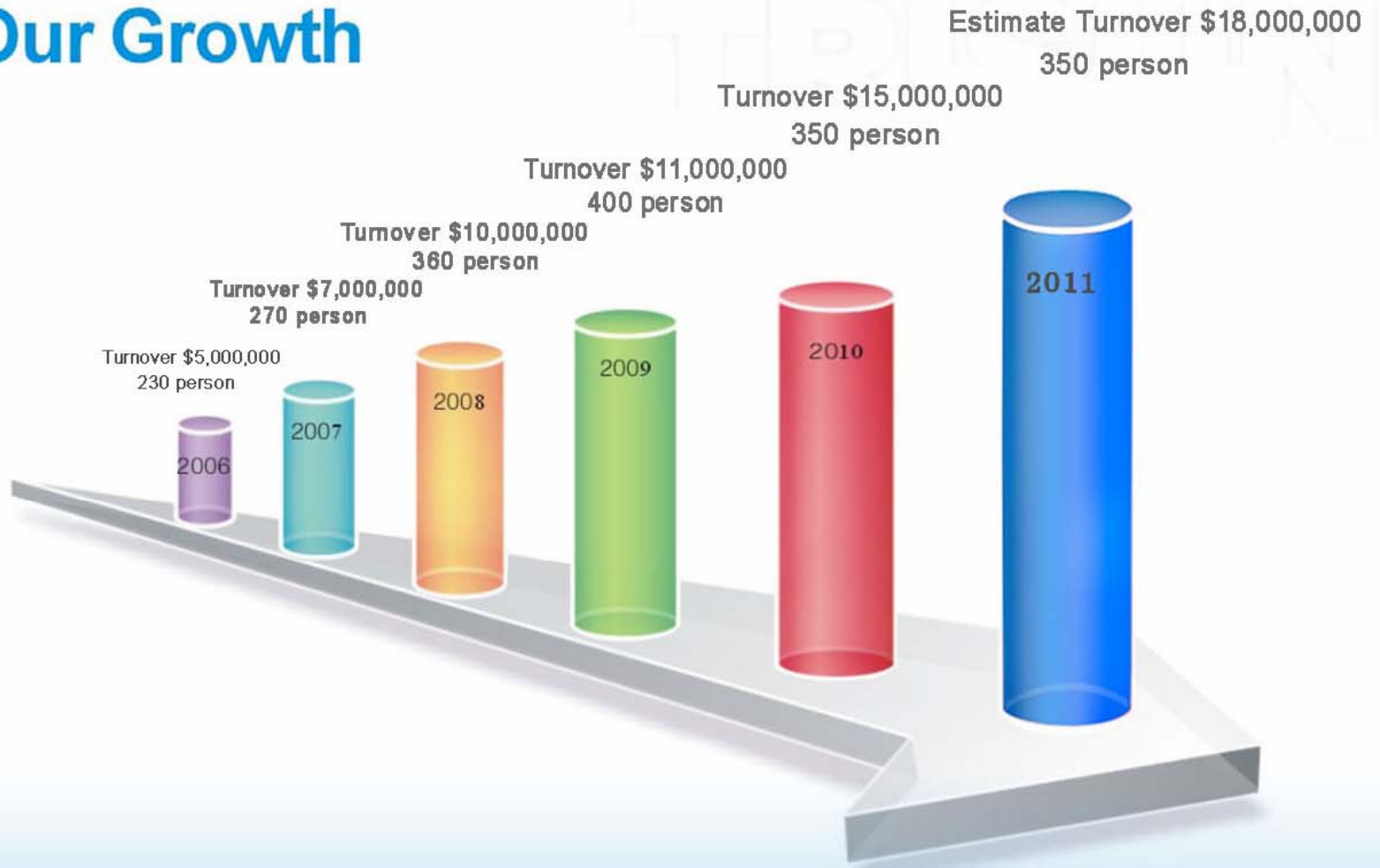
Sales Ratio

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- Auto Cooling Pump Seal (30%)
- Single-spring Seal (25%)
- Air-condition Compressor Seal (10%)
- Metal Bellows and Cartridge Seal (10%)
- Control Valves (5%)
- Impeller (5%)
- Others (15%)



Our Growth



Trisun Mechanical Parts Manufacture

Company Status

Company Size

Total Staff: 350 person, Technical Research : 17 person, Quality Checker: 20 person, PE Engineer: 3 person, Sales: 27 person, Purchasing: 7 person, workers: 260 person, Support Staff: 16 person.

Our capacity

Mechanical Seal: 10,000,000 sets per year

Impeller: 2,000,000 pieces per year

Control Valve: 300,000 pieces per year

Metal Bellows: 10,000 sets per year

Cartridge Seal: 5000 sets per year

Thermosiphon Vessel: 5000 sets per year

Trisun Mechanical Parts Manufacture

Certification



ISO9001 : 2000



ISO/TS16949 : 2009



ISO14001 : 2004

Trisun Mechanical Parts Manufacture

Production Process

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Metal Stamping



Workshop



Polishing



Metal Bellows Welding



Impeller Injection Molding Machine



Production Line



CNC Machining Center



Injection Molding Machine



Assembly



Warehouse

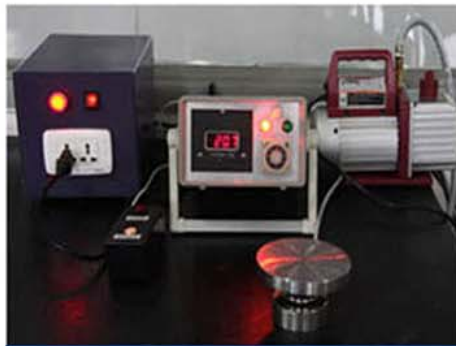
Trisun Mechanical Parts Manufacture

Quality Inspection

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Leakage Detector



Vacuum Leakage Detector



Inspection Center



Hardness measuring



Flatness Measuring

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Quality Inspection



Compressor Seal Test Bench



Seal Rotating Life Test Bench



Runout Detector



Alternating High and Low Temperature Test Center



Auto-cooling Pump Seal Test Center



Compressor Test Bench

Trisun Mechanical Parts Manufacture

Inspection Report



Felt (REACH)



99CE (SGS)



Rubber(CTI)



SUS304 (PONY)



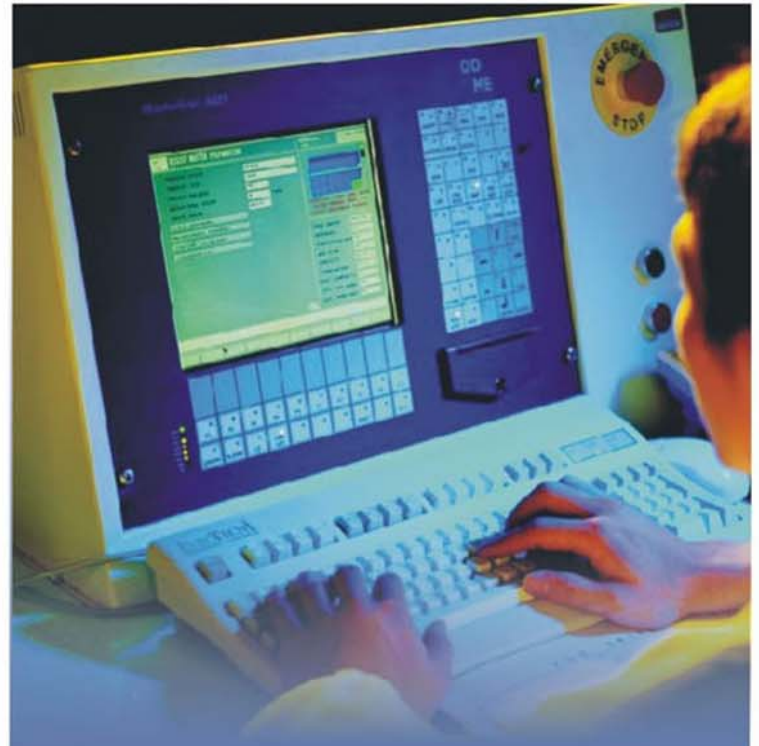
TC Ring(PONY)



Plastic Carbon(ROHS)



Plating Color (ROHS)



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R & D

Our R & D team members

PhD: 3 person, Senior engineer: 2 person,

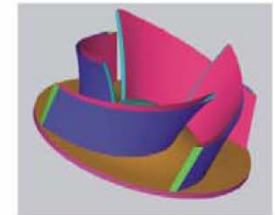
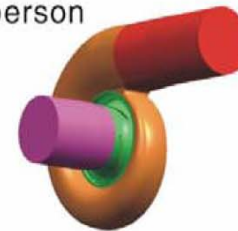
5 years working experience engineer(fluid industry, polymer materials): 6 person

Research & Development

Impeller hydraulic model design of centrifugal pump, mixed-flow pump, axial flow pump and other special pump

Performance optimization of all types of turbine and pump

Flow field numerical simulation and performance prediction of fluid machinery



Project Achievement

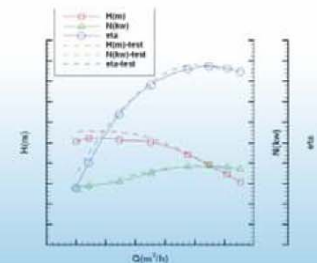
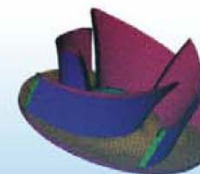
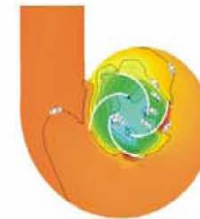
High Specific Speed Mixed-flow Pump's design & optimization
(National "South-to-North water diversion" project)

Chemical axial pump's numerical analyze and optimization
(National Natural Science Foundation)

Chemical centrifugal pump's numerical simulation and performance prediction.
(One domestic famous pump factory's project)

The Research & develop of the centrifugal pump with inlet guide vane.
(Beijing scientific and technological commission's energy saving project)

Centrifugal pump's cavitation performance prediction.
(One domestic famous auto-pump factory's project)



Dry Gas Seal

The First-class R&D Team

R&D teams have professional Masters and Doctors ,Meanwhile , we have close cooperation with famous universities and institution.

State-of-the-art Technology

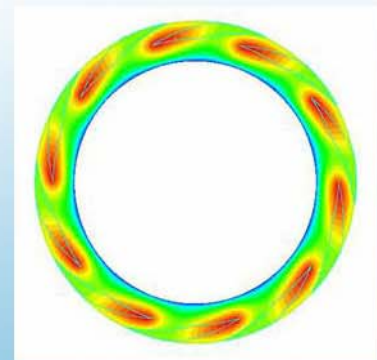
Through computer numerical simulation , we obtain the accurate parameters of mechanical and thermodynamic properties ,then design outstanding, stable and reliable dry gas seals.

Advanced Processing Techniques

The high-performance laser equipments can process all kinds of dynamic pressure grooves on the surfaces of the different material rings

Abundant Product Models

The product range covers pump seals; compressor seals and agitator seals. Besides our standard product models, we can also provide special design according to your requirements.



Carbon



Germany--SGL



Britain--MORGAN

Rubber



Japan DAIKIN



American DUPONT

DOW CORNING

American DOW Corning

日本ゼオン株式会社

Japan Zeonex

American
ROYALENE

Uniroyal Chemical Inc

SIC



Saintgobain

PTFE



Italy--MTU

Spring



Japan GMB

Other



Germany GPM

TORAY

Japan- TORAY

Polyplastics

Solution Platform for Engineering Plastics

Apan- POLYPLASTICS

Automotive



河南西峡汽车
水泵股份有限公司



一汽富奥汽车零部件
有限公司(辽泵)



上海乾通汽车
附件有限公司



南京南汽金鼎汽车
零部件有限公司



洛拖集团
(中国一拖集团有限公司)



韩国 KIA(起亚)
OEM 配套



伊朗标致
OEM 配套



南非大众

河北宏业机械股份有限公司
泊头宏扬阀业分公司

北京京威



美国三电



中国上海三电



动源
Jiayuan
广州动源
压缩机有限公司



汉钟精机股份有限公司



上海甘森利汽车配件有限公司



开利·全球空调专家

美国开利



意大利富士豪制冷压缩机

TRISUN 客户

合作伙伴：(排名不分先后)

Chemical industry



巴基斯坦国家炼油厂



加拿大石油公司

Scomi

Scomi Group BHD

Bisoton power
Generation



ICL FERTILIZERS GROUP



IRAN ALUMINA COMPANY



上海电气集团



Wartsila

Pump



GMB



日本工进公司

Kubota

KUBOTA Corporation



EBARA



Flowserve Corporation

PROCON

Procon pumps



ANDRITZ
TECHNOLOGIES LTD.

STERLING

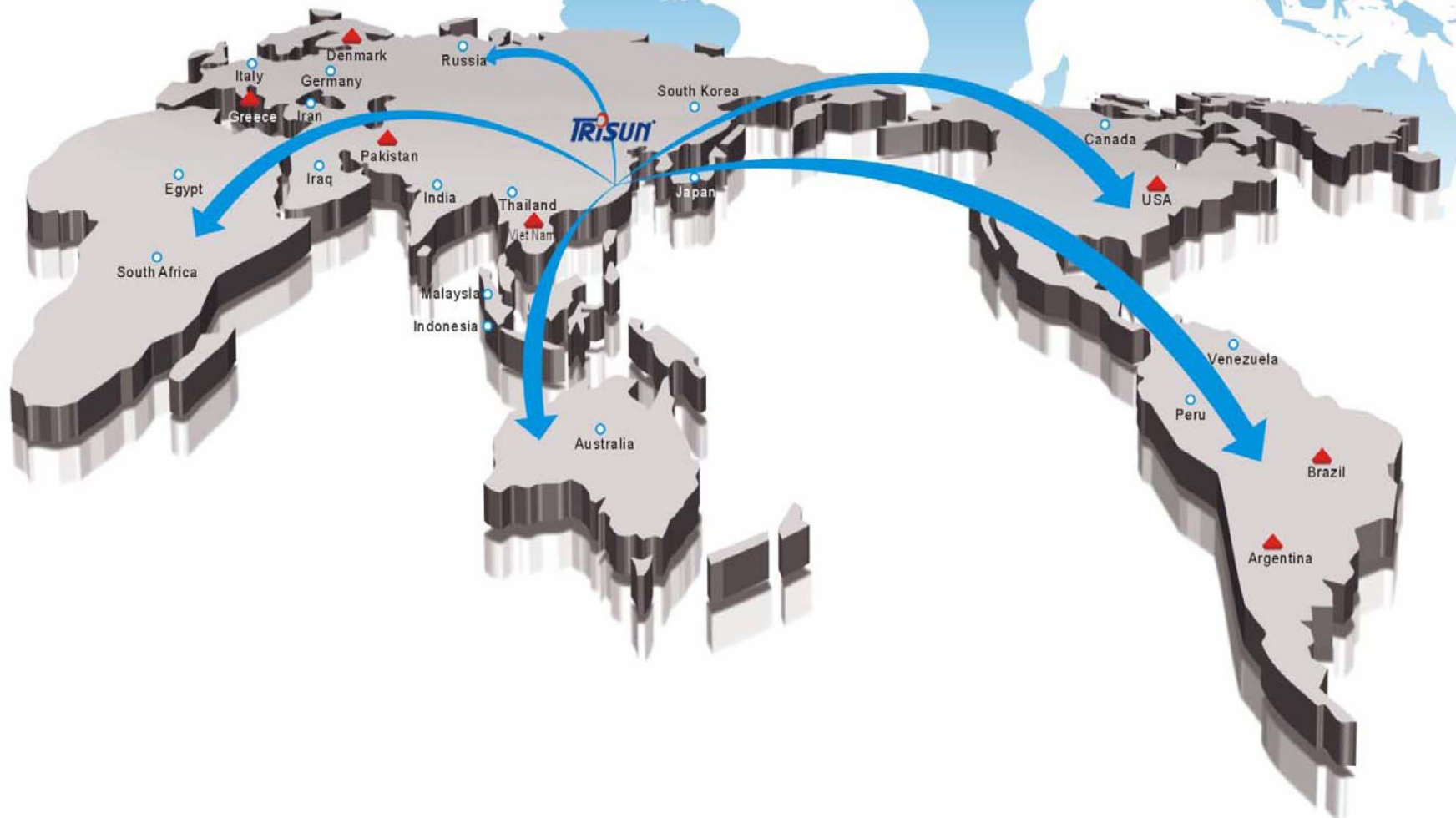
Germany SIHI Pump



Wilo Germany

Trisun Mechanical Parts Manufacture

Company Footprint



Exhibition Information



Beijing Chemistry Show



Shanghai Gehua Air-condition Show



Shanghai Auto Show



Vietnam Show



Air-condition Compressor Show

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谢 谢

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