



contents



Corporation Histroy	03		Testing Center	- 21
Organizational Structure	04	-	Warehouse	22
Sales Network	05	_	Logestic Center	23
Production Base	06	_	OEM Product	24
Production Categories	07	-0	Testing Equipments	25-26
Sales Ratio	08	-0	Technology	27
Growth	09		Research and Develop	28
Company Status	10		Dry Gas Seal	29
Certification	11-12		FFKM and Spring Energized Seal	30
Test Report	13		Bearing Isolator	- 31
Sample Room	14		Coating Technology	32
Office	15	_	Supplier	- 33
Production Line	16		Customer	34-35
Production Line	17-18		Footprint	36
Workshop	19-20		Exhibition	37-38

High Efficient, Clean and Green

History



•	1998	Establish Wenzhou Trisun Seal Manufacture Co., Ltd
•	1999	Pass IS09001:2000 Certificate

- 2002 Establish Shanghai Trisun 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
- 2008 Pass TS16949:2009 Certificate





2009





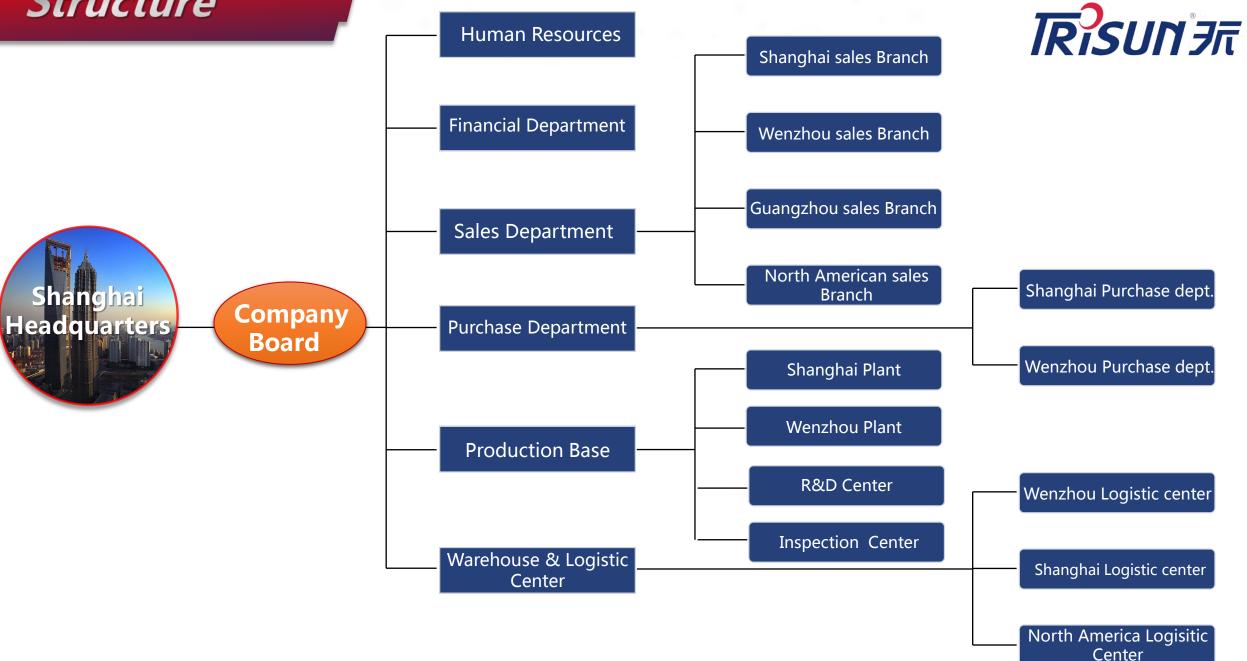
• 2010	Manufacture high-quality PPS impeller, and relocate Sales
	Headquarters to Lujiazui Financial Center

• 2011 The production ability of Wenzhou plant exceeded 1 million sets per month and Shanghai plant moved to the new building

Develop the high technology product — dry gas seals

- 2013 Pass FDA and WRAS Certificates, Establish North American Sales
 & Logistics Center
- Pass API Certificate for cartridge seals, and set up Shanghai R&D and Logistics Center
- 2016 Wenzhou new production building is completed
- 2017 Build E-commerce sales platform
- 2019 Develop coating seal ring and shaft

Structure

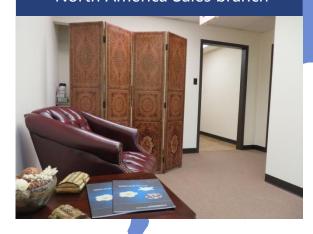


Network





North America Sales branch





Shanghai Sales Headquarters







Wenzhou Sales branch

Production Base









Shanghai Trisun Production Base: 10000 m² and 36 employees

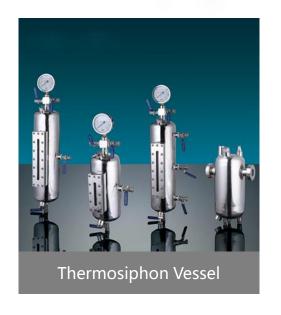
Wenzhou Trisun Production Base: 30000 m² and 160 employee



Products

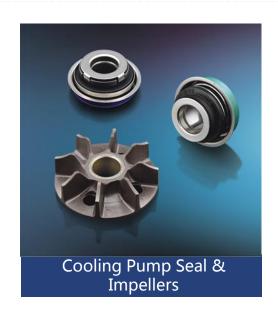














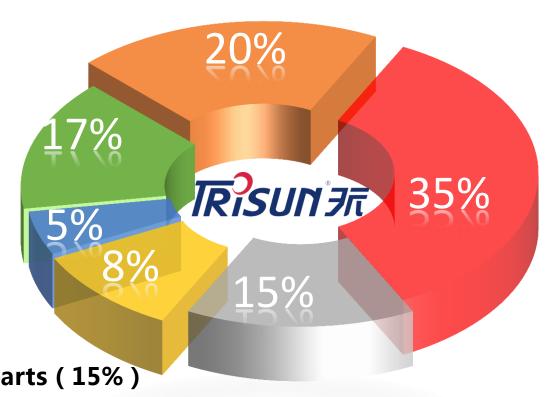




Sales Ratio

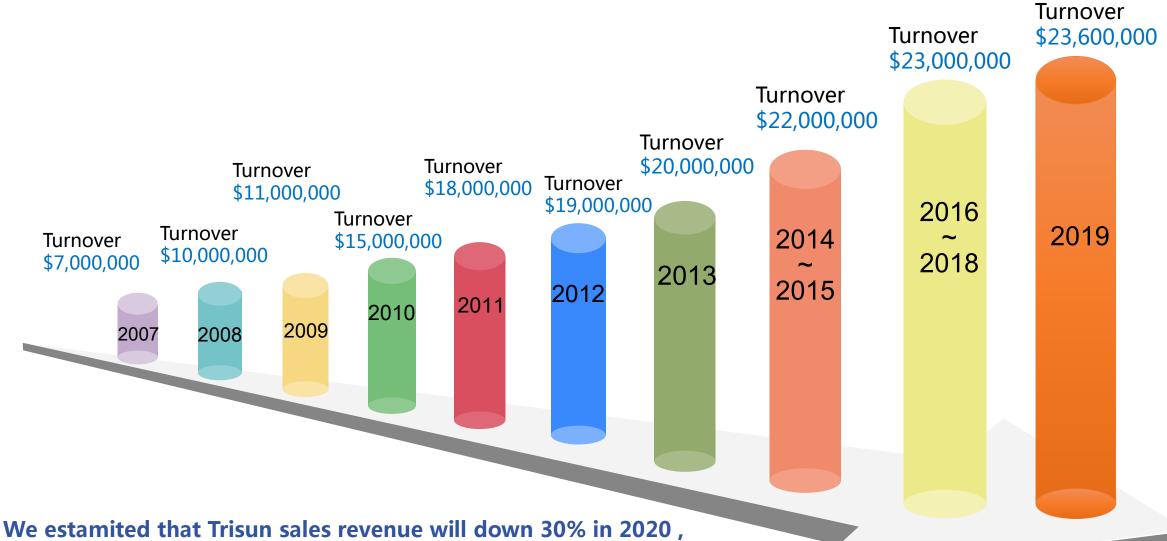


- Single-Spring Mechanical seals(35%)
- Metal Bellow seal 、Cartridge Seal & vessel tank、Dry Gas Seal (20%)
- Auto Cooling Pump Seal (17%)
- A/C Compressor Seal & Valve (8%)
- Impeller and Nozzel(5%)
- Test machine, Lapping machine and other parts (15%)



Growth





however we confidence will recovery in 2022.

Company Status



TRISUNJA

温州市天成密封件制造有限

Trisun Seal Manufacture Co. Lie

• Annual Turnover: \$23,600,000

Total 236 employees

20 R&D personnel

15 Quality Checkers

4 Process Engineers

15 Salesmen

5 Purchasers

162 Workers

5 Financial Staff

10 administration Staff

Mechanical seals: 10,000,000 pcs/Year

Impellers: 2,000,000 Pcs/Year

Control Valves: 300,000 Pcs/Year

Metal Bellows : 24,000 pcs/Year

Cartridge Seals: 6,000 pcs/Year

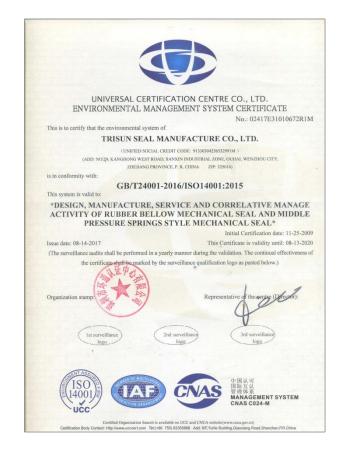
Thermosiphon Vessels: 5,000 pcs/Year

Certification









ISO9001

IS16949

ISO14001

Certification









FDA

API

WRAS

Test Report



Products TÜVRheinland® Test Report No.: 0244219513a 001 Shanghai Trisun Parts Manufacture Co.,Ltd Room 3005-06, Sino-Life Tower, No.707 Zhangyang Rd Pudong Dist.Shanghai. China. Buyer's name: Manufacturer's name: Resin Impregnated Carbon Graphite Identification / Model No(s): 2020-02-28 to 2020-03-06 **Testing Period:** Test specification: Test conclusion: Selected test(s) by client: Specific Release of Metals Other Information Sample Photo Selected test condition by client. For and on behalf of TÜV Rheinland (Shanghai) Co., Ltd. 0 Sven Posselt 2020-03-09 Sven Posselt / Technical Head Name / Position Test result is drawn according to the kind and extent of tests performed. This test report relates to the a.m. test sample. Without permission of the test center this test report is not pe extracts. This test report does not entitle to carry any safety mark on this or similar products. TÜV Rheinland (Shanghai) Co., Ltd. Shanghai TÜV Rheinland Building, No. 177, Lane 777, West Guangzho Shanghai 200072, P.R. China Tel.: +86 21 6108 1188 Fax: +86 21 6108 1099 Mail: info@shg.chn.tuv.com Web: www.tuv.com

报告编号: TS19040490	日期: 2019-44-16 第1 页/ 共 11 页 检测报告		
委托方	温州市天成密封件制造有限公司		
地址	浙江省温州市瓯海区三漠工业区康宏西路 29 号		
样品名称	石墨材料		
型号	Of the set of the set of the set of		
材质/颜色	Carbon/black		
其他信息	Part No.: Sealing ring series; Item/LotNo.: MK		
样品接收日期	2019-04-10		
測试周期	2019-04-10~ 2019-04-16		
测试要求	根据欧盟法规(EC) No 1907/2006 (即REACH 法规) 所列明的 197 项高关注度物质(SVHC) 清单 (质量百分浓度不得超过 0.1%), 检测样品中 SVHC 含量。		
测试方法	CIRS-TC-SVHC001, CIRS-TC-SVHC002, CIRS-TC-SVHC003, CIRS-TC-SVHC004, CIRS-TC-SVHC005, CIRS-TC-SVHC006		
测试结果	委托方产品中检出的当前 REACH 法规第 57 条规定的 197 项高关注物质质量百分浓度少于 0.1%(重量比)。		
編制: 採泉外 检單冰	事核: 建宝峰 投幣: 不完美 历品酶 授权签字人		



TUV EU1935

REACH Certification

ROSH Certification

Sample Room







Office







Production Line







Production Line











Production Line







Workshop







Workshop







Testing Center









Warehouse







Logestic Center







OEM Product





Dust Free Workshop



Automatic Retainer Healing



Automatic Leakage Testing

Auto cooling pump seal, dish-washing seal, sanitary pump seal

Trisun assemble 7 million mechancial seals annually, We always aims to OEM market . In order to match the strict requirments of Food Manufacturing and Sanitary Industry, Our mateiral also have FDA, NSF, WARS and TUV1935 certification. Trisun OEM standard seal will have 100% air static testing before shipment.

Testing Equipments















Testing Equipments















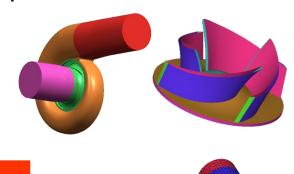
Technology

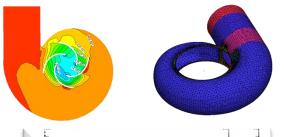


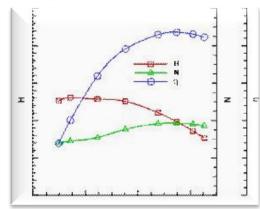
Our R & D team members :
 PhD supervisor:1 person , PhD: 3 persons, Senior engineer:2 persons,
 5 years working experience engineer(fluid industry, polymer materials): 6 persons

- 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

- (National "South-to-North water diversion" project)
- Chemical axial pump's numerical analyze and optimization
- (National Natural Science Foundation)
- Chemical axial pump's numerical simulation and performance and prediction (One domestic famous pump factorys project)
- The Research & develop of the centrifugal pump with inlet guide vane.
- Centrifugal pump's cavitation performance prediction.





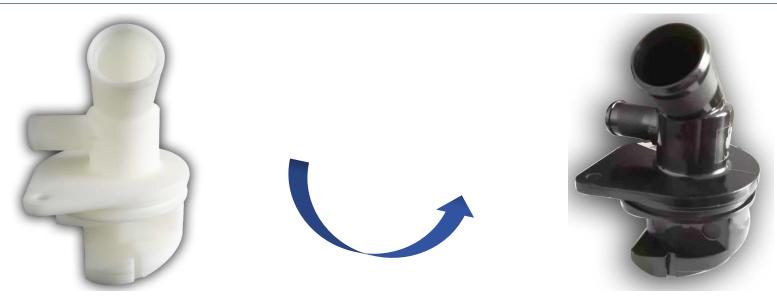


Research and Develop



3D Printing applied in the tooling design and new products development

• We use 3D printing technology in industrial product design and development process (such as pump housing, thermostat, pulley, impeller, etc.). Designers can use this method to quickly convert the computer graphics to physical model in order to improve the accuracy of design and shorten the product development cycle.



Nozzel Prototype by 3D printing

Final Products by Tooling

Dry Gas Seal



State-of-the-art Technology

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

Advanced Processing Techniques

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

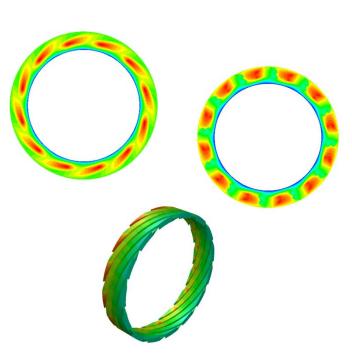
Abundant Product Models

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

The First-class R&D Team

• R&D team is composed of Masters and PHD. Meanwhile, we have close cooperation with famous universities and institutions.





FFKM and Spring Energized Seal







Dupont-Kalrez and FFKM

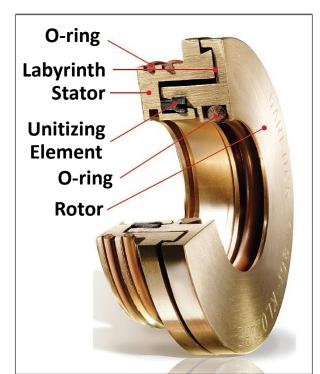
Spring energized seal

Bearing Isolator

TRISUN'3

Bearing Isolator, also named Bearing Protector, It consists of a rotor and a stator, which are unitized by an O-ring. The two components interact to keep the pollutants





Features of Bearing Isolator

- Non-contact , No wear to the shaft
- Zero energy consumption
- Block moisture enter the bearing housing when equipment
- Shaft speed up to 60m/s
- More than 40,000 hours lifetime

- Split design available
- emperature range: -35 °C~204°C

Coating Technology



Trisun developed the coating technology for pump shaft and mechaincal seal rings.

There are Aluminimu base , Chromium Trioxide (Cr_2O_3) base and Diamond base coatings The coating thickness from 0.2mm to 1~mm .



Coating technology will efficiently improve pump life. These insulation coating-material will down the pump temperature when pump under the dry run or high-speed operation. Pump will also enhance the wear and corrosion resitant by coating technology.

Supplier



Carbon



Germany-SGL



QUPOND

UK-MORGAN

The miracles of science

American DUPONT



Germany Schunk



American METCAR

METCAR*



American Dow



Japan Zeonex

Rubber



Japan DAIKIN



Uniroyal Chemical Inc

SIC



SAINT- GOBAIN

meccanotecnica umbra **PTFE** schanical Face Seals

Italy-MTU

Spring



Japan GMB

Other







Japan Polyplastics

TRISUN 3

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



上海乾通汽车 附件有限公司



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



美国三电



中国上海三电



广州动源压缩机



汉钟精机股份





上海甘森利汽车配件



意大利富士豪



美国四季



Chemical Industry















Pump



GMB



Procon pumps



ANDRITZ
ANDRITZ
TECHNOLOGIES



KUBOTA Corporation



EBARA



Flowserve Corportation



Germany SIHI Pump





NETZSCH Pump

Footprint



Trisun Mechanical Parts Manufacture **Company Footprint UK** Denmark Germany **South Korea** Turkey A Pakistan India Thailand Egypt **South Africa** Malaysla Indonesia Venezuela Brazil Australia Chile **New Zerland** Argentina

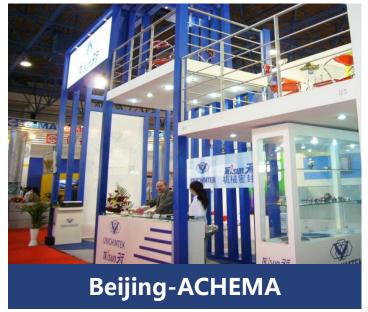
Exhibition











Exhibition









Italy-EIMA show



Turkey - ISK-SODEX



Add: No 3005-07 ,Sino-Life Tower,No 707 Zhangyang

Rd, Pudong Shanghai China 20020

Tel: 0086-21-58355541 58353145 50102677

Fax:0086-21-5858353141

http//www.trisunltd.com

