

# TST Seal Co., Ltd

Leading Technology | Independent Innovation  
Creating National Brands

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**TST Seal**

# Enterprise Profile

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- ◆ **Product system:** Industrial penetration modular sealing system, special signal cables, and precision temperature sensors.
- ◆ **Industry position:** We are a global leading enterprise in the temperature measurement system for large power generation units, a pioneer in the industrial penetration module sealing system in the hydropower industry, and the only domestic supplier of signal cables for high-speed trains in China.
- ◆ **Market directions:** State Grid, large power plants (hydroelectric, thermal, nuclear, and wind power), rail transit, shipbuilding, ocean engineering, energy and chemical engineering, military industry, machinery manufacturing, public buildings (hospitals, data centers, airports), etc.
- ◆ **Core team:** More than 100 team members, of which 1/3 are scientific and technological personnel, mostly from the military industry.
- ◆ **Organizational structure:** Shenzhen headquarters, Shenzhen factory, Hanzhong factory, Dongguan workshop, Chengdu branch, Beijing office, Xi'an operation center.
- ◆ Testeck has two national high-tech enterprises and over 130 patents, making it a “specialized, refined, and innovative” enterprise in Guangdong Province.

# Enterprise Honors



National High-tech Enterprise  
(Testeck Technology)



Specialized, Refined, and  
Innovative Enterprise of  
Guangdong Province



National High-tech Enterprise  
(Testeck Cable)



Member of Insulating Material Division of  
China Electrical Equipment Industrial  
Association



Member of Shenzhen  
National Defense Industrial  
Association



Member Units of China  
Instrument Manufacturer  
Association

# Industrial penetration modular sealing system

- ◆ Hanzhong Testeck Technology Co., Ltd., a wholly-owned subsidiary of Shenzhen Testeck Technology Co., Ltd., specializes in the R&D, production, sales, and service of cable/pipeline insulation sealing systems. With over 30 independent intellectual property rights and core patent technologies, Hanzhong Testeck is a leading brand in leading domestic innovation of variable diameter module sealing system technology **and a pioneer in the industrial wall modular sealing system, water and electricity, rail transit industry.**
- ◆ **Products:** Cable and pipeline penetration sealing system, sealed terminal box, large generator unit oil tank outlet device. The product is made of low smoke, halogen-free, and high-performance EPDM material.
- ◆ **Characteristics:** It has such properties pf non-toxic, flame-retardant, fire-resistant, low smoke, rodent and ant resistant, high and low temperature resistant, aging resistant, and voltage impact resistance. According to environmental requirements, it can manufacture explosion-proof (EX), electromagnetic interference resistant (EMC), fireproof, and waterproof sealing modules that meet different performance requirements. The modular and variable diameter technology allows flexible arrangement according to the number and diameter of cables and pipelines, and meets the requirements of the International Maritime Organization's A-60 to A-0 class specifications, and possess **a type approval certificate of CCS classification society.**

# Pioneer in the modular wall penetration and sealing system in the hydropower and rail transit industry

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- ◆ **Application:** State Grid and Southern Power Grid (substations, converter stations); **Power plants** (hydroelectric, thermal, nuclear, wind, offshore); We provide a complete set of solutions for cable and pipeline insulation and sealing for industry clients in areas such as rail transit, shipbuilding, offshore engineering, energy and chemical engineering, and new energy.
- ◆ **Management:** The company implements an advanced production management model, a strict quality management system, and a complete after-sales service network. It has established departments such as product R&D, marketing, production and manufacturing, quality management, and after-sales service.
- ◆ **Concept:** The company has more than 100 employees, **of which over 50% are senior technical and skilled talents from military manufacturing system**, providing strong technical support for product R&D.
- ◆ **Performance:** Currently, we have provided over **3,000 sets** of domestically produced cable and pipeline insulation and sealing solutions for over **1,000** listed companies, state-owned enterprises, and central enterprises in the energy sector, including State Grid, China Southern Power Grid, Huadian Group, Datang Group, Three Gorges Group, and Daduhe Group, as well as China Railway Construction Corporation, high-speed rail, subway, and other well-known enterprises in the rail transit industry.



## R&D

Testeck has a technology R&D team from the military industry, with over 50% of senior technical and skilled talents. It has also invested a huge amount of funds in R&D, providing strong support for innovation and development.

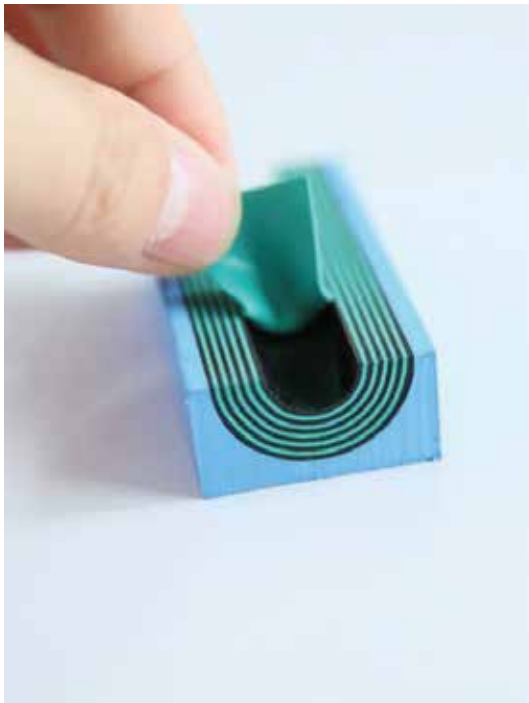


## Production

We strictly control the entire production process from the material end to the production end to the shipping end, and conduct strict testing and testing on the products. We adhere to zero quality defects and create high-quality products that satisfy the owners.



# Modular wall penetration and sealing system



- ◆ Variable diameter - suitable for pipelines of  $\varnothing$



- ◆ Combined structure No need to dismantle pipelines for later renovation



- ◆ Pipelines of multi specifications that are arranged in a rectangular metal frame



# Product Series

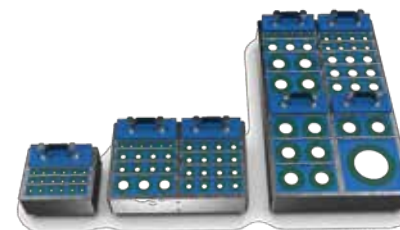
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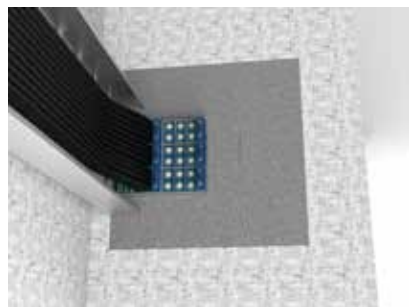
**Single circular penetration sealing system**



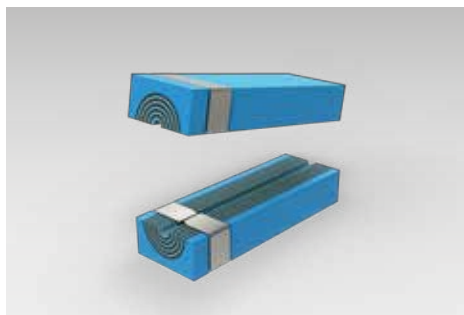
**Multiple circular penetration sealing system**



**Rectangular penetration sealing system**



**Explosionproof (EX) penetration sealing system**



**EMC penetration sealing system**



**Cabinet penetration sealing system**

# Product components

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**Circular sleeve series**



**Rectangular frame series**



**Circular frame series**



**Partition**



**Tensioner**



**Loading and unloading tools**

# Product features

## Fire resistance

The sealing element should meet the fire protection requirements of R22/R23 materials in EN 45545 standard, and meet the hazard level HL3 of fire occurrence risk.

## Water tightness performance

The airtight pressure is 0.2MPa; The normal temperature water tight pressure is 0.4MPa, and the low temperature water tight pressure is 0.05MPa.

## Safe and non-toxic

The product is non-toxic and safe, and complies with the provisions of the ROHS on the Table of Standard Restricted Substance Limit. It is resistant to high temperature, low temperature, impact, vibration, and humidity, and meets the requirements of the General Specification for Ships.

## Electromagnetic compatibility performance EMC

Passed the test assessment according to the requirements of GB/T 12190-2006 Method for measuring the shielding effectiveness of electromagnetic shielding enclosures.

## Protection level

After vibration impact according to IEC 61373 or GB/T 21563, the sealing element can achieve a sealing protection level of IP68.

## Explosion proof performance

Comply with the requirements of IEC 60079 "Explosive Atmospheres".

## Easy installation

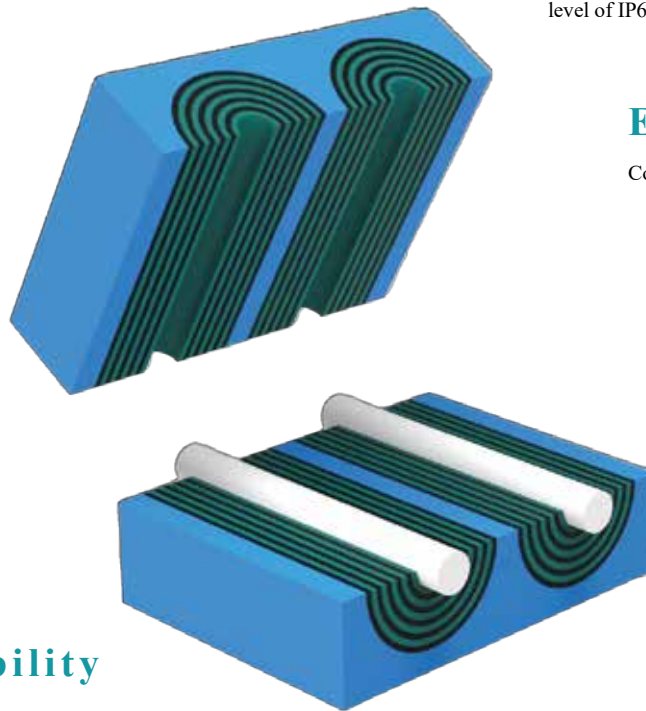
The flexible variable diameter design makes it easy to install products used in different occasions

## Low maintenance cost

Support redundant design, with low cost for later upgrades and renovations.

## Longer service life

The service life lasts for 30 years



# Professional service

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Technical personnel, sales personnel, and after-sales personnel provide product consultation, technical guidance, installation training, and provide customers with a "turnkey" project, saving time and effort for customers.



**7 \* 24-hour  
timely response**



**One-to-one  
product guidance**



**Security risk assessment**



**Provide door-to-door  
installation guidance**



**Short lead time**



**Comprehensive after-sales  
service**

### Application in ships



### Application in the field of hydropower



### Application in the field of wind power





**Application in the  
petrochemical industry**



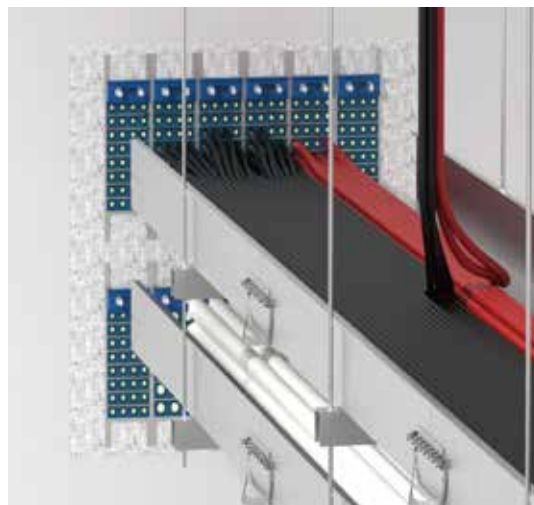
**Application in medical buildings**



**Application in rail transit**



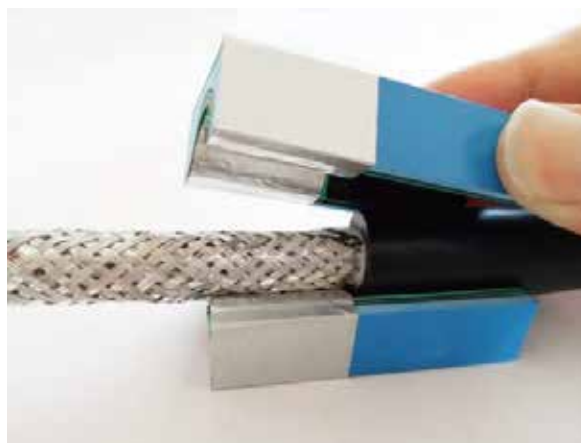
### Application in the nuclear industry



### Application in the data center

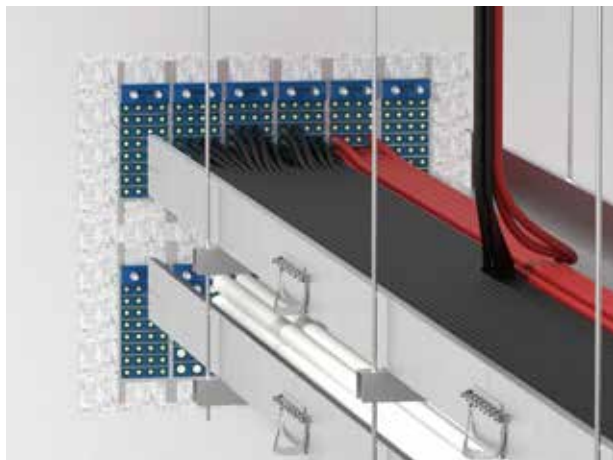


### Application in military industry





# Application scenarios for cable penetration



Cable tray sealing



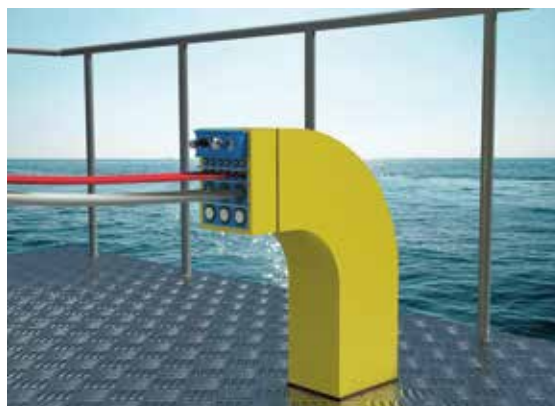
Sealing for cables horizontally penetrating the wall



Terminal box sealing



Sealing for cables vertical penetrating the wall



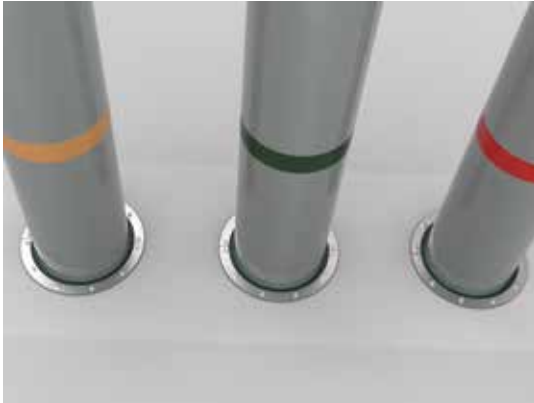
Sealing for the cable passing through the partition deck



Sealing for cable through wall

# Application scenarios for pipeline penetration

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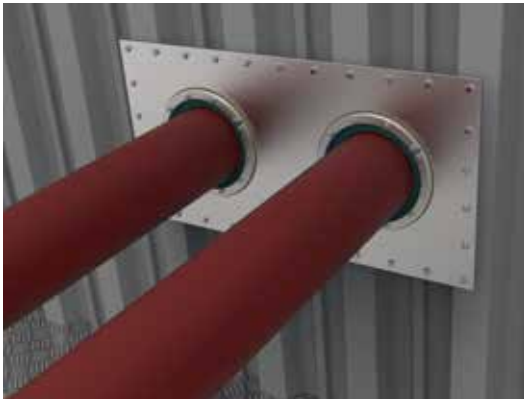
Sealing for the penetration of enclosed busbars



Sealing for the penetration of bulkhead



Sealing for the penetration of pipeline



Sealing for the penetration of deck



Sealing for the penetration of pipeline



Sealing for the penetration of pipeline

# Construction site of modular penetration sealing system

**GIS**



Before renovation



After renovation

**Cables vertically passing through the floor slab**



Before renovation



After renovation

**Raceway**



Before renovation



After renovation



# Construction site of modular penetration sealing system

**Cable into households**



Before renovation



After renovation

**Electrical box**

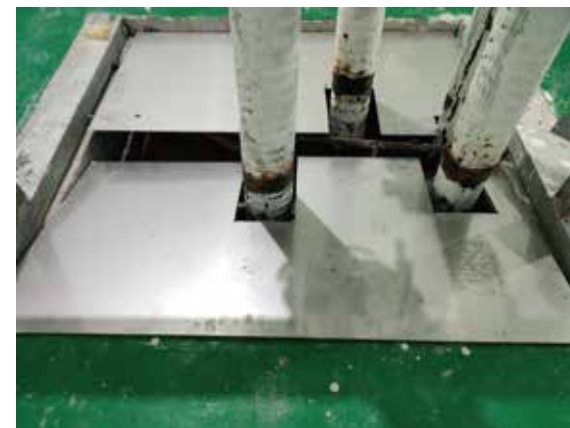


Before renovation

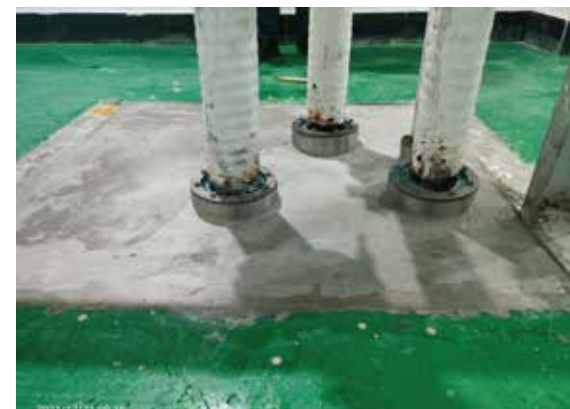


After renovation

**High voltage cable**



Before renovation



After renovation

# Construction site of modular penetration sealing system

**Cabinet**



Before renovation



After renovation

**Oil, water and gas pipeline**



Before renovation



After renovation

**Main and auxiliary power houses**



Before renovation



After renovation

# Qualification Certificates

Rigorous detection and testing: chemical analysis, aging experiments, vertical combustion experiments, acetic acid salt spray experiments, toxicity testing, water tightness and airtightness performance testing, electrical strength testing, dust and vibration resistance testing, corrosion resistance testing, fire and flame retardant performance testing, noise resistance performance testing, etc.



CCCF certificate



China Classification Society (CCS) for Pipeline Penetration Devices



China Classification Society (CCS) for Cable Penetration Devices



# Qualification Certificates

**检测报告**

报告编号: **TC.21.12.005774**

日期: **2022-01-05**

申请方: **深圳市泰士特科技股份有限公司**

申请方地址: **深圳市宝安区西乡街道铁岗社区铁岗工业园3栋4楼**

样品描述:

样品	描述	照片
001	样品描述: 橡胶密封件 材料: EPDM/75%, 填料: TBC-MMO 用途用途: 车辆电缆密封 生产厂家: 深圳市泰士特科技股份有限公司 原产地: 中国	

样品检测日期: **2025-12-14**

测试执行日期: **2025-12-14 至 2025-12-21**

样品数量: **样品已由申请人提交并确认。**

结论:

No.	项目	测试标准	判定依据	评价
1	ROHS 2.0	IEC 62321-5:2013 IEC 62321-4:2013+AMD1:2017 IEC 62321-7:2017 IEC 62321-6:2019 IEC 62321-8:2017	欧盟 RoHS 指令 2011/65/EU (RoHS 2.0) 及 指令 2015/863 (EU 2015/863)	合格

备注: 此份报告是报告编号为 TC.21.12.005774 的中文译本。

注: 1. 本报告是依据国家认证认可监督管理委员会 (CMA) 和广东省质量技术监督局 (GDMA) 批准设立的检测机构 (CMA GDMA) 出具的, 其检测数据的有效性, 须经国家认证认可监督管理委员会 (CMA) 和广东省质量技术监督局 (GDMA) 批准设立的检测机构 (CMA GDMA) 批准。2. 本报告是依据国家认证认可监督管理委员会 (CMA) 和广东省质量技术监督局 (GDMA) 批准设立的检测机构 (CMA GDMA) 出具的, 其检测数据的有效性, 须经国家认证认可监督管理委员会 (CMA) 和广东省质量技术监督局 (GDMA) 批准设立的检测机构 (CMA GDMA) 批准。

**ROSH Test Report**

**中析研究所** 北京中析理化技术研究所 (材料实验室)  
Beijing Zhongxi Research Institute of Material Technology (Material Lab)

报告编号 (Report ID): **ZX210928-000301** 日期 (Date): **2021.11.14** 第 2 页 共 5 页

**研究测试报告**  
(Research Test Report)

研究测试结论 (Research Test Result):

序号 NO.	测试项目 Test Item	测试结果 Test Result	参考数值 Index	结论 Conclusion
1	常温气密性	压力未降低	0.2MPa, 保压 30min, 压力 不得降低	符合
2	常温水密性	压力未降低	0.4MPa, 保压 30min, 压力 不得降低	符合
3	低温水密性	压力未降低	-10℃, 加压至 0.05MPa, 保 压 30min, 压力不得降低	符合

以下空白

**Water and air  
tightness testing report**

**应急管理部四川消防研究所 (SCFRI)**  
**国家防火建筑材料质量检验检测中心 (NFCTC)**

**检验报告**

报告编号: **2023200736** 第 3 页 共 1 页

产品名称	规格	型号规格
密封件	密封件	T38400
委托单位	深圳市泰士特科技股份有限公司	商 标
生产单位	深圳市泰士特科技股份有限公司	检验类别
送检单位	深圳市泰士特科技股份有限公司	检验日期
检验项目	密封性能	检验日期
检验地点	实验室	检验日期
样品数量	1套	样品编号
检验依据	GB 23864-2009《防火门密封材料》	
检验项目	耐火性能	
检验结果	合格。该T38400型密封材料耐火性能为E 00%。(以下空白)	
备注		

检测: **王学龙** 审核: **王学龙** 编制: **王学龙**

**Fire resistance rating  
test report**

# Qualification Certificates





## Partners

