



# INTRODUCTION TO TROLEX ENGINEERING



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## OUR HISTORY - CELEBRATING 40 YEARS

### 公司历史 – 40周年纪念

Started in 1975, Trolex Engineering pioneered the first electrical flameproof slip ring for use on pedestal cranes in offshore applications – the 100/9.

始于1975年，Trolex首创生产了应用于海上钻井平台起重机的电气防火滑环箱。

The company designed, machined, assembled, certified and delivered this first slip ring – which is still in service today!

公司当年设计、加工、装配、认证和交货的第一台滑环箱，至今还在使用！

Following this, an Ex d Slip Ring was designed for an ROV winch, adapted for wireline and logging, which included a shaft encoder to determine well depth.

随后，设计出了用于ROV（遥控）卷扬机的Ex d 防爆滑环，与安装在卷扬机轴上的编码器相连，用于检测和记录油井深度。



## ABOUT US / 关于我们



Trading since 1975  
始于1975年



Family Business  
家族企业



Specialists in the design and manufacture  
of electro-mechanical machinery  
专业从事于机电设备的设计与生产



Average length of service is 10  
years  
(员工) 平均服务年限超过10年



1 in 5 staff have been employed  
for more than 25 years!  
1/5的雇员工龄超过25年

# TROLEX

Close links with Trolex Ltd –  
manufacturers of detection products  
for hazardous areas  
与危险区域设备制造业保持密切联系

# TROLEX ENGINEERING

## DEVELOPMENTS 2013-2016 / 13-16年间的发展



Purchase of new premises  
购买了新的工厂



Introduction of Apprenticeship Scheme  
引进了培训生计划



Introduction of Knowledge-Share Scheme  
引进了知识共享计划



Operations Manager Employed  
雇用经理人管理



Marketing Executive Employed  
雇用市场营销主管

## KEY MARKETS / 主要市场



Marine - Offshore  
海运业 - 钻井平台



Marine - Dockside  
海运业 - 码头设备



FPSO's  
浮式生产储油卸油系统



Food & Pharmaceutical  
食品和制药工业



General Industry  
常规工业



Nuclear  
核工业

## APPLICATIONS / 应用



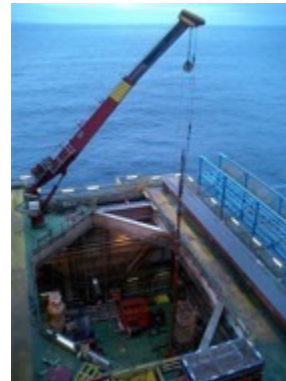
Coil Tubing  
卷筒



Winches  
卷扬机



Cranes  
起重机



Wireline/Logging  
测井电缆/数据记录



ROV  
遥控潜水器

## SPECIFICATION AND CERTIFICATION / 技术规格和专业认证

We can offer rotary solutions to support the following specifications: 我们能够提供旋转机构方案满足以下技术规范要求:

- EN/IEC 60079 Standards | EN/IEC 60079 标准
- ATEX Directive 2014/34/EU | 欧洲防爆规范
- IECEx | 国际电工学会防爆规范
- Explosion Protected | 防爆保护
- Weather Protected | 气候防护
- Gas Protection | 气体防护
- Dust Protection | 粉尘防护
- Ingress Protection (up to IP68) | 入口防护 (可达到IP68)
- SGS Baseefa/Certification Management Ltd | SGS Baseefa 公司提供认证
- UL Certification | (美国) UL 认证



## SLIP RINGS / 滑环

Slip Ring Units have been a major part of our company product portfolio since incorporation. Each type has been designed and manufactured with maximum consideration for the application – many being for the mining, offshore and petrochemical industries where Explosion Protected equipment is necessary.

自成立以来，滑环箱即成为我公司产品系列中的主要部分。每种型号产品的设计和制造都最大限度地考虑应用的需要 – 很多用在矿业、离岸开采和石油化工工业等必须采用防爆设备的环境中。





## Fibre Optic Rotary Joints (FORJ's) / 光纤旋转连接器

We can supply FORJs which are usually incorporated into a more complex interface, such as slip rings.

我们能够提供通常集成在比较复杂滑环箱内的FORJ - 光纤旋转连接器。

- Non-contact optical interface | 非接触光接口
- No signal interference | 无信号干扰
- Certified for use in hazardous areas | 危险区域应用认证
- Low insertion loss | 低插入损失

FORJs are widely used in remotely operated vehicles (ROVs), oil drilling systems, sensing systems, cranes and many other applications where a twist-free fibre cable is essential.

FORJ 被广泛应用于遥控操作设备、石油钻探系统、传感系统、起重机和许多其他类应用。



## Ex d CONNECTORS / Ex d 接头

-Versatile, high quality multi-pin connectors for offshore and petrochemical plants.

通用的、高质量的多芯接头，用于离岸开采和石油化工厂。

-Explosion protection Group II certified for hazardous area, maintaining full Ex d rating even when disconnected.

危险区域 Group II 防爆认证，即使接头分离状态仍可保证原有的Ex d 防爆等级。

-No special tools are required to mate, so connection is simple.

连接简单，不需要特殊工具。

-For hazardous area applications and 1.5kV isolation, used for Wireline and Logging.

危险区域和1.5kV 绝缘条件，可用于测井电缆和记录数据（传输）。



## CABLE REELS / 电缆卷筒

Robust devices designed specifically for use on electric powered vehicles for use in hazardous areas. They allow, in conjunction with a suitable drive, the supply cable to be paid out and reeled in automatically with vehicle movement. The cable reels incorporate a flameproof slip ring and termination enclosure.

专为危险区域电动车辆设计。结合适当的机构，随着车辆移动，可以使动力电缆进行自动收放。这个电缆卷筒内安装了一个防爆滑环箱和接线盒。

For use in / 应用于：

- High pressure off-loading tankers for control and grounding / 高压卸油罐的控制和接地
- Crane boom extensions / 起重机臂架延伸机构
- Mast extensions, hydraulic or electrical / 桅杆延伸，液  
压油或电力（传输）



## JUNCTION BOXES / 接线箱

Our range of Junction Boxes encompass Ex d models (TX6900 & TX6910), which all have 316 Stainless Steel housings as standard, but have an option of Coated Mild Steel.

我们的接线箱系列包括Ex d 型号（TX6900和TX6910），标准产品箱体材料为316不锈钢，也可选用涂装低碳钢。



## FLUID/GAS SWIVEL | 流体/气体旋转接头

Our range of fluid/gas swivels are stainless steel and suitable for Offshore Winches. Available with up to 15 separate passes and double-sealed, preventing leaks to atmosphere.

我们的流体/气体旋转接头系列为不锈钢材料，适用于钻井平台卷扬机等应用。可达15个独立通路，双密封以防泄漏。



## OUR CUSTOMERS / 我们的客户



Weatherford



HALLIBURTON



Schlumberger



bluewater



LIEBHERR



**TROLEX**  
ENGINEERING



QUESTIONS?  
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