



陕西优耐特机械有限公司  
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**SHAANXI UNITED  
MECHANICAL CO.,LTD**  
陕西优耐特机械有限公司

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## 企业简介

陕西优耐特机械有限公司成立于2011年7月，注册资本1100万元，建筑面积15000余平方米。公司现有员工100余人，其中高级工程师3名，工程师8名，高级技师10名，各类机床熟练操作工50余名。专业的技术研发队伍和敬业的技能工人队伍为公司产品的高质量、高水准、高效率提供了重要保障。

公司于2013年通过了ISO9001质量管理体系认证，2016年通过了美国石油学会行业标准API-10D认证，先后获得5项国家级实用新型专利。

主要产品为固井用刚性扶正器，弓簧套管扶正器，ESP电缆保护器及与刚性扶正器和弓簧套管扶正器配套使用的止动环等。根据加工工艺不同，刚性扶正器分为焊接式刚性扶正器和整体成型式刚性扶正器，弓簧套管扶正器分为整体式弓簧套管扶正器和高性能整体式弓簧套管扶正器。已经批量生产的电缆保护器共有30个品种，200多个规格。产品在实际使用中具有快捷方便、质量可靠、安全环保等优点。

现有各类设备100余台（套），其中高精尖设备2台，有大尺寸数控激光切割机1台，数控焊接机床1台；大型剪板机、折弯机各1台，各型号冲床20余台，各种普通机床10余台，大型液压机6台。另有热处理设备4（台）套，喷塑生产线一条。高精尖的设备，人与机器的科学结合，为生产高水准、高质量的产品提供了有力的保障。

**公司目标：**通过专业、敬业、创新、和谐的团队为石油行业开发出更多更新更实用的高质量产品。

**公司宗旨：**精诚团结，努力创新！

## About Us

Founded in July 2011, Shaanxi United Mechanical Co., Ltd has the registered capital of RMB 5 million and covers an area of more than 15000 square meters. Currently the company has more than 100 employees, including 3 senior engineers, 8 engineers, 10 senior technicians and over 50 skillful operators for all kinds of machine tools. The professional team for technology research and development and dedicated team of technical workers guarantee the high quality, high standard and high efficiency of the products.

The company passed the quality management system certification of ISO9001 in 2013 and API-10D certification in 2016. It obtained 5 national patents of utility models successively.

The company mainly manufactures the cementing equipment such as rigid centralizers, spring centralizers, ESP cable protectors as well as the stop collars used for the rigid and spring centralizers. According to different processing technology, rigid centralizers can be classified into welded rigid centralizers and one-piece rigid centralizers, while spring centralizers consist of economical spring centralizers and high-performance spring centralizers. 30 kinds of cable protectors with more than 200 specifications are now available for bulk production. In the real use, our products have the advantages such as fast and convenience, reliable quality as well as safety and environmental protection.

Now the company has more than 100 equipment including 2 high-grade equipment which are one large-size NC laser cutting machine and one NC welding machine. It has one large plate shearer, one bending machine, more than 20 punch presses in different sizes, more than 10 ordinary machine tools and 6 large hydraulic presses. Also the company has 4 sets of heat treatment equipment and one production line of plastic spray. High-grade equipment and scientific combination of human and machines ensure the high standard and best quality of the products.

The objective of our company is to develop more, newer and more practical products with high quality for various enterprises in oil and other industry by our professional, dedicated, creative and efficient team.

The tenet of the company is solidarity and creativity.



# 企业荣誉

ENTERPRISE HONOR



- 实用新型专利证书  
整体式弹性扶正器2012/10
- 实用新型专利证书  
电缆保护器2015/12
- 实用新型专利证书  
整体式弹性扶正器2012/12
- 质量管理体系认证  
美国石油学会认证

## 主要产品 THE MAIN PRODUCTS



过接头电缆保护器  
Cross Coupling Cable  
Protector



扶正器式保护器  
Centrizer Cable  
Protector



中间电缆保护器  
Mid-Joint Cable Protector



过接头电缆保护器  
Cross Coupling Cable  
Protector Installation  
Instruction



双通道电缆保护器  
Dual Channel Cable  
Protector



高性能整体式弓簧套管扶正器  
High-performance One-piece  
Bow-Spring Casing Centrizer



整体式弓簧套管扶正器  
One-piece Bow-Spring  
Casing Centrizer



整体成型式刚性扶正器  
One-piece Rigid Centrizer



手动安装工具  
Manual Installation  
Tools



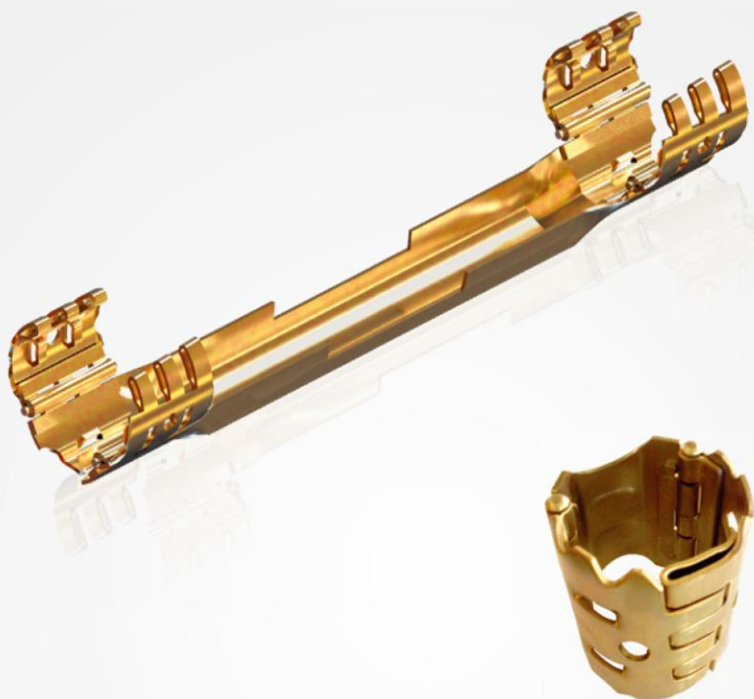
液压气动工具  
Hydraulic Pneumatic  
Installation tools



焊接螺旋式刚性扶正器  
Spiral Weld Rigid Centrizer



焊接直筋式刚性扶正器  
Straight Weld Rigid  
Centrizer



## 电缆保护器 Cable protectors

UMC电缆保护器可以将几乎任何尺寸的ESP电缆、控制线、化学品注入管、集成管束、密封管线等快速、安全地固定在钻井孔内的API油管上。

UMC cable protectors are ideal for securing virtually any size of ESP cables, control lines, umbilicals and encapsulated bundles on the API tubings in well-bores in a safe and efficient way.

# UMC

## 电缆保护器 Cable protectors

### 特点

所有电缆保护器采用双层防腐保护，抗腐能力更强；  
所有铰链采用电阻点焊，用来加强产品的总体完整性；  
弹性摩擦垫夹紧系统，可以实现最优夹持力；  
防滑、防旋转；  
无损夹持功能；  
产品设计可以消除由于挤压诱发的对ESP电缆等导体产生的损伤。

### Features

- All UMC cable protectors have double protection to resist corrosion.
- All hinges are spot-welded to enhance the overall integrity of the product.
- Spring friction pad gripping system for superior grip.
- Slip and rotation resistant.
- Non-destructive gripping action.
- Designed to eliminate compression-reduced damages to the conductors.

### 规格

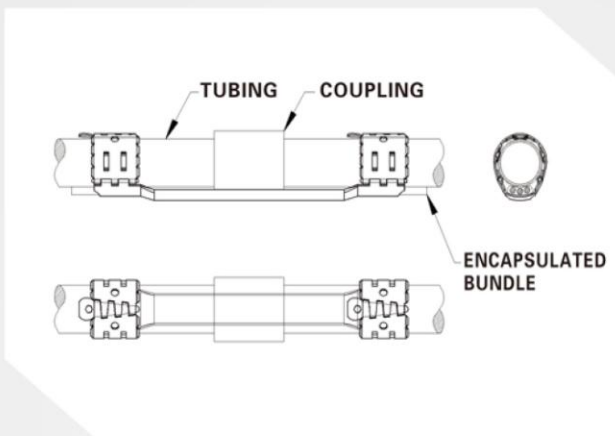
材料采用低碳钢或不锈钢；  
适用于过接头保护器和中间保护器；  
API油管外径范围2-3/8" 到7" ；  
设计适应于扁平形、圆形、方形电缆和化学注入管、集成线束等；  
多通道设计可以有效隔离多种管线；  
可以根据用户需求定制。

### Features:

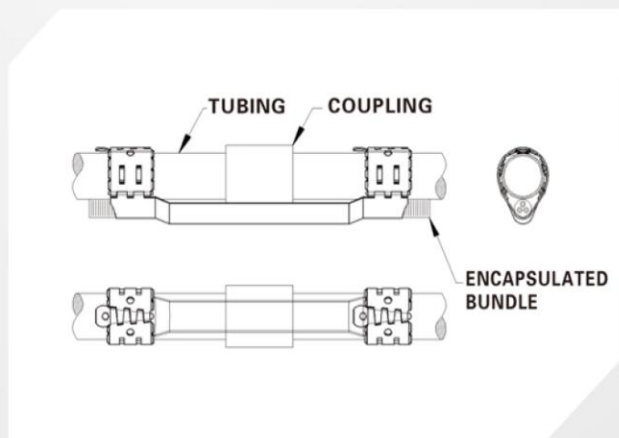
Design Specifications  
Manufactured of low carbon steel or stainless steel  
Available as cross-coupling and mid-joint protectors  
Suitable for API tubing sizes from 2-3/8" to 7"  
Configured for flat, round or square cables, chemical injection lines, umbilicals etc.  
Multichannel design is available to separate multiple lines  
Customized upon request



## 电缆保护器外形结构 Cable Protector Configuration



扁平形通道  
Flat Channel

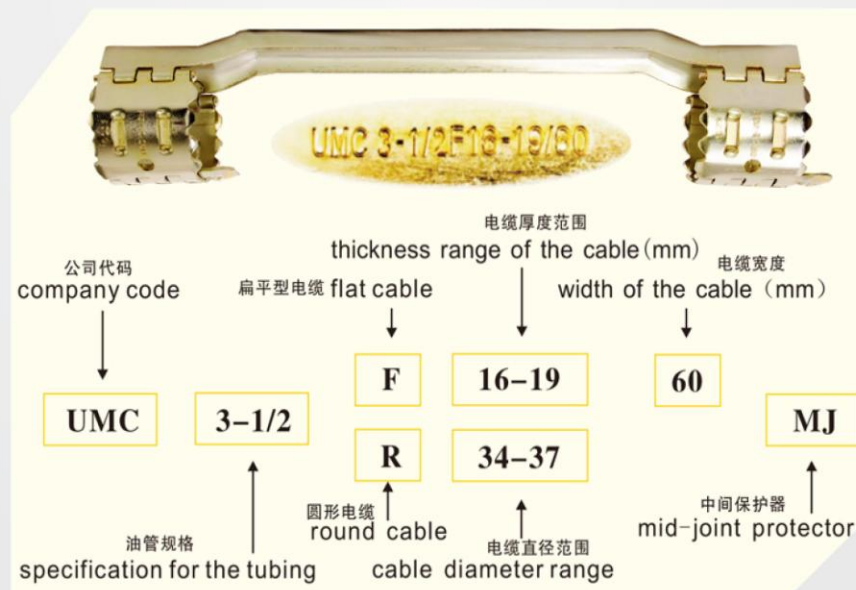


圆形通道  
Round Channel

## 电缆保护器 Cable protectors



## 规格说明 Specification Guide





电缆保护器示意图  
The Cable Protector Instruction



油管 TUBING	电缆保护器规格 Specifications for cable protectors					*(规格可根据客户要求定制) *(Special solutions are available upon request)			
	2-3/8"	UMC-2 3/8R6	UMC-2 3/8F11/34					UMC-2 3/8R32-34	
	UMC-2 3/8R6-MJ	UMC-2 3/8F11/34-MJ					UMC-2 3/8R32-34-MJ		
2-7/8"	UMC-2 7/8R6	UMC-2 7/8F11/34	UMC-2 7/8F16-19/56	UMC-2 7/8F16-19/70	UMC-2 7/8F11-16/56		UMC-2 7/8R30-33	UMC-2 7/8R34-37	
	UMC-2 7/8R6-MJ	UMC-2 7/8F11/34-MJ	UMC-2 7/8F16-19/56-MJ	UMC-2 7/8F16-19/70-MJ	UMC-2 7/8F11-16/56-MJ		UMC-2 7/8R30-33-MJ	UMC-2 7/8R34-37-MJ	
3-1/2"	UMC-3 1/2R6	UMC-3 1/2F11/34	UMC-3 1/2F16-19/60	UMC-3 1/2F16-19/70	UMC-3 1/2F11-16/60	UMC-3 1/2F19-23/60	UMC-3 1/2R30-33	UMC-3 1/2R34-37	UMC-3 1/2R38-42
	UMC-3 1/2R6-MJ	UMC-3 1/2F11/34-MJ	UMC-3 1/2F16-19/60-MJ	UMC-3 1/2F16-19/70-MJ	UMC-3 1/2F11-16/60-MJ	UMC-3 1/2F19-23/60-MJ	UMC-3 1/2R30-33-MJ	UMC-3 1/2R34-37-MJ	UMC-3 1/2R38-42-MJ
4-1/2"	UMC-4 1/2R6	UMC-4 1/2F11/34	UMC-4 1/2F16-19/60		UMC-4 1/2F11-16/56	UMC-4 1/2F19-23/60		UMC-4 1/2R34-37	UMC-4 1/2R38-42
	UMC-4 1/2R6-MJ	UMC-4 1/2F11/34-MJ	UMC-4 1/2F16-19/60-MJ		UMC-4 1/2F11-16/56-MJ	UMC-4 1/2F19-23/60-MJ		UMC-4 1/2R34-37-MJ	UMC-4 1/2R38-42-MJ
5-1/2"	UMC-5 1/2R6	UMC-5 1/2F11/34		UMC-5 1/2F16-19/70DUAL	UMC-5 1/2F11-16/56			UMC-5 1/2R34-37	
	UMC-5 1/2R6-MJ	UMC-5 1/2F11/34-MJ		UMC-5 1/2F16-19/70-MJ	UMC-5 1/2F11-16/56-MJ			UMC-5 1/2R34-37-MJ	
7"	UMC-7R6	UMC-7F11/34							
	UMC-7R6-MJ	UMC-7F11/34-MJ							



液压气动工具能够将电缆保护器安全可靠地安装在油管上，可以帮助一个有经验的操作者在30秒内将锥销放置在保护器的确切位置上。该工具由一个脚控制或者手控制气动液压泵，一个“C”形支架组合和一个气锤组成。

另外，UMC 还可提供简易的手动安装工具。

Hydraulic pneumatic tools can securely install the cable protectors on the tubings and help an experienced operator place the taper pin on the exact position of the protectors within 30 seconds. The tools consist of a foot-controlled or hand-controlled pneumatic hydraulic pump, a C-shaped holder assembly and a pneumatic hammer.

UMC can also supply simple manual installation tools.

### 液压气动工具 Hydraulic Pneumatic Tools



### 手动安装工具 Manual Installation Tools

### 整体式刚性扶正器

One-piece Rigid Centralizer



利用钢板冲压及卷压成型，产品精度高，节约成本。  
可提供螺旋旁翼及直形旁翼设计。

Molded by stamping and crimping the steel plates, the product is notable for its high precision and low cost.

Design of spiral and straight blades is available upon request.

### 焊接式刚性扶正器

Weld Rigid Centralizer



利用钢板冲压、卷压、焊接成型，适应于旁翼高度差较大的使用环境。

可提供螺旋旁翼及直形旁翼设计。

Molded by stamping, crimping and welding the steel plates, the product can be applied to the operating environment with big altitude difference of the blades.

Design of spiral and straight blades is available upon request.





### 整体式弓簧套管扶正器

One-piece Bow-Spring Casing Centralizer



#### 产品特点: Product Features:

1. 整体式钢板卷压成型, 无可分离的组件。从而彻底消除打捞的可能性, 免组装也可最大限度提高工作效率。
2. 加工精度高, 能适应各种井眼尺寸。
3. 极小的起动力, 低下放力, 低阻力。
4. 增强的套管居中回复力。
5. 高强度, 可靠性高, 其弹性可满足下入缩径井段要求。
6. 各项指标均超过API扶正器标准。

1. It's formed by rolling and pressing one-piece steel plate without separable components, thus thoroughly eliminating the possibility of salvage. Non-assembly feature can also maximize the working efficiency.
2. High machining accuracy. It can fit all sizes of the boreholes.
3. Tiny start force, low running force and low resistance.
4. Enhanced restoring force casing centering.
5. High strength and reliability. Its elasticity can meet the requirements of going down to the undergaged interval.
6. The index of this product exceed API standard for centralizers.

### 高性能整体式弓簧套管扶正器

High-performance One-piece Bow-Spring Casing Centralizer



#### 产品特点: Product Features:

1. 整体式钢板卷压成型, 无可分离的组件。从而彻底消除打捞的可能性, 免组装也可最大限度提高工作效率。
2. 加工精度高, 能适应各种井眼尺寸。
3. 极小的起动力, 低下放力, 低阻力。
4. 增强的套管居中回复力。
5. 高强度, 可靠性高, 其弹性可满足下入缩径井段要求。
6. 各项指标均超过API扶正器标准。
7. 设计有导向结构, 便于产品顺利の入井。
8. 改变了产品使用过程的受阻原理。

1. It's formed by rolling and pressing one-piece steel plate without separable components, thus thoroughly eliminating the possibility of salvage. Non-assembly feature can also maximize the working efficiency.
2. High machining accuracy. It can fit all sizes of the boreholes.
3. Tiny start force, low running force and low resistance.
4. Enhanced restoring force casing centering.
5. High strength and reliability. Its elasticity can meet the requirements of going down to the undergaged interval.
6. The index of this product exceed API standard for centralizers.
7. Designed with the guide structure which can make the product successfully run into the well.
8. The mechanical principle during the use of the product is changed.



高精度、微机控制的弓形弹簧套管扶正器综合性能试验设备, 确保了实验数据的精确性和直观性。

Our Bow Spring Casing Centralizer comprehensive performance test equipment which is notable for its high precision, ensuring the accuracy and intuition of the test data.



我公司严格按照API Spec 10D(第6版)弓形弹簧套管扶正器规范的要求, 进行试验操作和数据的采集。

When we are operating the test and acquisting the data, our company are strictly in accordance with the API 10D(the 6th edition) requirement of the Bow Spring Casing Centralizer.