

Holding up an oasis for the earth  
为全球托起一片绿洲

为生命造就一份光彩

Bring up a luster to our lives

### 新乡市华东制管厂

公司地址：河南新乡市凤泉区大块工业园  
电话：0373-5420586 5420929 5420918  
手机：(0)13707659555 (0)13503739736  
联系人：雷振宙 潘丽娜 传真：0373-5420106  
邮编：453000 邮箱：hdzg.com@163.com  
网址：<http://www.xxhdzg.com>

### HUADONG SCREEN CO.,LTD

Address:Dakuai Industrial Park, Fengquan District,  
Xinxiang City, Henan  
Tel :0086(0)373-3518376 5420929 5420586  
Fax:0086(0)373-3518279 5420106  
Phone: 008613707659555 008613503739736  
Contact: Lei Zhenzhou Pan Lina Fax :0373-5420106  
Post code: 453000 E-mail: hdzg.com @ 163.com  
Website: <http://www.xxhdzg.com>

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century



华东管业

Huadong Screen

HUADONG SCREEN CO.,LTD

中国国土资源部 中国水利部农水司  
二十一世纪推广产品



华东管业



### □ 关于华东

新乡市华东制管厂位于河南省新乡市西郊，交通便利，属高新企业密集区，占地15000平方米，总投资2000万元，是生产桥式滤水器、龙中笼过滤器的专业化厂家，是集生产、制造、销售、研制、设计、开发于一体的综合性专业化厂家，具有近二十年的生产历史，产品出口俄罗斯、蒙古、苏丹、阿尔及利亚和也门等多个国家，在国内外极具盛誉。

本厂全自动化设备，引进德国技术，具有雄厚的技术力量，革新研制的先进工艺，完善的检测手段，现已开发生产出六十多种产品，均达到国内领先水平，并多次获得名优产品和质量信得过产品称号。近年来，生产的桥式滤水器设计合理，外形美观、质量可靠，适用于水文地质、煤田地质、化工地质、冶金地质、地温空调、地基降水、水源地开发、城市供水等各行业的施工建设。我厂有一支专业化的生产及营销团队，欢迎各界朋友到我厂莅临指导，洽谈订购。

### About Huadong Screens

With the coverage of 15,000 square meters and the total investment of 20 million RMB, Huadong Screens, located in Xinxiang City of Henan province, has emerged as the leading screens manufacturer in China. Since established a decade ago. It is a professional complex combining scientific research, designing and developing, production, marketing. With sophisticated manufacturing facility, advanced technologies and perfect detection measures, we offer a wide variety of industrial screens applied in many different industries such as water wells, mining & mineral processing, municipal water supply, refining & petrochemical, water treatment, architecture and construction, etc.

Our screens, well recognized by industry professionals at home and abroad, have won the titles of Famous Brand and High Quality Products and Quality Trustworthy Products for many times. Based on their strength, precision and design flexibility together with unbeatable prices and professional service, our products have earned it a reputation in China and found their way into the international markets: Russia, Bolivia, Indonesia, Mongolia, Algeria, Morocco, to name just a few.

Our professional in sales and manufacturing will furnish you with the highest quality screening products whenever and wherever you need them. For more information, we invite you to explore our world of filtration products and to contact with us.



PRODUCTS  
产品展示  
龙中笼过滤器

### □ 龙中笼过滤器

一：龙中笼过滤器——几代人的成就

公司融节约、创新和灵活于一体，提供内容广泛形式多样的工业用过滤器解决方案，供应适用于不同领域的高效、耐用产品，公司员工能力出众，设计精准。

不论顾客所需过滤器的使用条件或加工过程如何困难，公司都能生产出最为理想、最划算的过滤器。

1. 严格按顾客要求设计

公司所接的每一个项目都专门设计，保证顾客100%满意。公司从项目的酝酿到项目的完成提供全程的指导和支撑。

2. 产品持久耐用

龙中笼的生产标准全行业最为严格。公司使用的是精密的V字形过滤器技术。这种过滤器极为耐用，且抗磨损、抗腐蚀、抗撞击能力强。

3. 维修少

公司产品采用高质量的材料制造，结构坚固，可长久使用，且较少维修。

4. 价格低

公司工作人员效率高，产品使用寿命长，维修少，自然降低了产品的实际成本。

### LongZhongLong Screens

LongZhongLong Screens enjoy decades of problem-solving success.

Having a history of providing efficient and long lasting products that will work in a variety of situations, we offer a combination of economy, innovation and flexibility to provide a wide variety of industrial screen solutions. Our engineering staff is fully capable of precision design to ensure that each requirement is met. Now with our broadened line of screen products you can specify the perfect, most cost-effective screen no matter how challenging your application or process.

1. Custom Designed and Engineered

Each project is specifically designed to ensure complete satisfaction. We provide guidance and support from project concept to completion.

2. Longer Lasting

Longzhonglong screens, whose manufacturing standards are the most stringent in the industry, are extremely durable and have high resistance to abrasion, corrosion and impact damage.

3. Lower Maintenance

The rugged construction and high quality of materials make possible a product that lasts longer and requires less maintenance.

4. Less Costly

Superior operating efficiency, extended service life and reduced maintenance needs combine to reduce the true cost of Longzhonglong screens to plant operators.



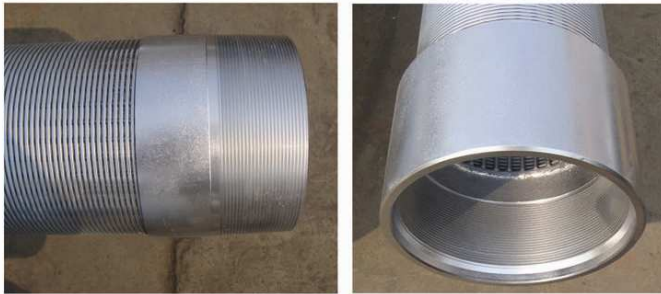
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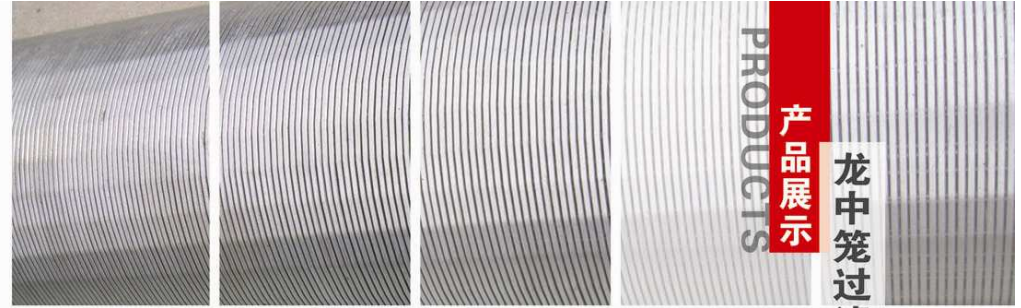
### 龙中笼过滤器系列产品成为全球企业的首选

1. 建筑师指定公司产品用做电灯器具, 算子地板, 遮阳纸, 墙盖板及许多其他装饰。
2. 深层取水法机井, 地热井取水, 采用公司的各种规格和多样式的过滤器。
3. 食品处理器上也多采用龙中笼产品, 因为它们耐热, 耐腐蚀, 易于确保通过美国食品及药物管理局的审核批准。
4. 麦芽糖生产厂使用龙中笼平板筛是因为翻转时能进行更加彻底的搅拌, 烘干时更易于通风。
5. 纸浆和纸张厂使用龙中笼筛管用于造纸机, 进行再循环, 脱水, 碎片排除, 烘干, 水的净化等。
6. 此外, 龙中笼产品还用于矿山加工机, 炼油机以及污水处理和供水系统。



### LongZhongLong(Johnson type) Screens, the First Choice of Industrials

1. Architects specify LongZhongLong screens for column and wall covers, grating floor, light fixtures, sun screens and various decorative applications.
2. Different kinds and specifications of screens are used in motor-pumped wells and geothermal wells.
3. Longzhonglong screens are used on food processors because they're heat and corrosion resistant and make it easier for FDA approval.
4. Malting plant operators find our flat panel screens provide a more thorough mixing during the turning phase, and better ventilation in the kilning phase.
5. Pulp and paper plants use our screens in the wood yard, paper machines, recycling, dewatering, debris removal, fiber fractionalization, drying, water purification and other processes.
6. LongZhongLong Screens are also applied in mineral processors, refiners, waste water treatment and water supply systems.



### 龙中笼过滤器用途广泛且持久耐用

龙中笼过滤器多是根据顾客需要定制生产, 用于离心分离机或类似的机器上。可将其设计为过滤衬垫安装于现有的框架上, 也能以整体支撑结构的形式做成。龙中笼过滤器可用于纸浆和纸张及矿产加工, 但必须特别坚硬以对抗高离心力和高温, 也需要具有特别的抗磨损性。龙中笼过滤器也可用于食糖加工, 但设计时要特别注意尽可能减少误差, 缝隙要细微。无论那种情况, 公司的设计工程师都能把产品的强度, 容量和抗磨寿命完美结合, 帮助客户投入最低的费用实现生产产量的增加。

### LongZhongLong Screens—Versatile and Durable

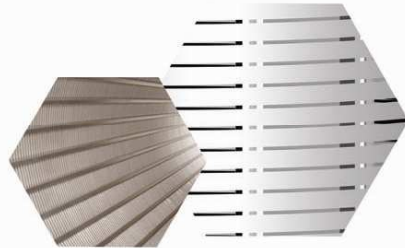
LongZhongLong screens are most often custom products installed in centrifuges or similar machines. They can be designed as screen liners to be installed in existing frameworks or they can be built with integral support structures. In some applications such as pulp and paper and mineral processing, they need to be particularly strong to resist the high centrifugal stresses and temperatures. They also require exceptional abrasion resistance. In other applications, such as sugar processing, greater importance may be placed on close-tolerance and fine-slot design. In all cases, our design engineers seek out the optimum combination of strength, capacity and wear life to help you increase your throughput at the lowest cost.





### 龙中笼圆柱形过滤器

龙中笼圆柱形过滤器通过组合式建造直径可达2.6米，长度为16米。每一个过滤器长度可达5.9米。过滤器外部环线和内部支撑柱的形状和尺寸有很大的选择空间，因此设计工程师能根据客户提供尽善尽美的产品。龙中笼圆柱形过滤器广泛应用于过滤和脱水等方面。过滤器的隙缝根据客户要求定制而成，它阻止了固体物质的进入，但流体可以流动。



双层预填充筛管，主要用于油、气、水井中，在内外筛管的环形空间中填入砾石等填充物。不需要井下作业，而达到更好的防砂效果，是先进的井下防砂工艺。在夹层填入催化剂或灭菌剂用在化工生产或工业灭菌效果显著。

### LongZhongLong Cylindrical Screens

With sectional construction, we've built screens up to 2.6 m in diameter and 16 m long. Each LongZhongLong screen can be up to 5.9 m in continuous length. A wide range of external wrap wire and internal support rod shapes and sizes lets our design engineers build you a screen that's the perfect fit for your application. Our screen cylinders are used for a variety of filtration, media retention and dewatering applications. Screen slots are sized to admit fluid flow while excluding solids.

With such packing materials as gravels filled into the space between their outer and inner, double prepacked screens, mainly used in oil wells, gas wells and water wells, will make downhole operation unnecessary and better sand prevention which is an advanced sand control technology. Catalysts or microbicides packed in the inter layers of screens contribute to chemical production and industrial sterilization.



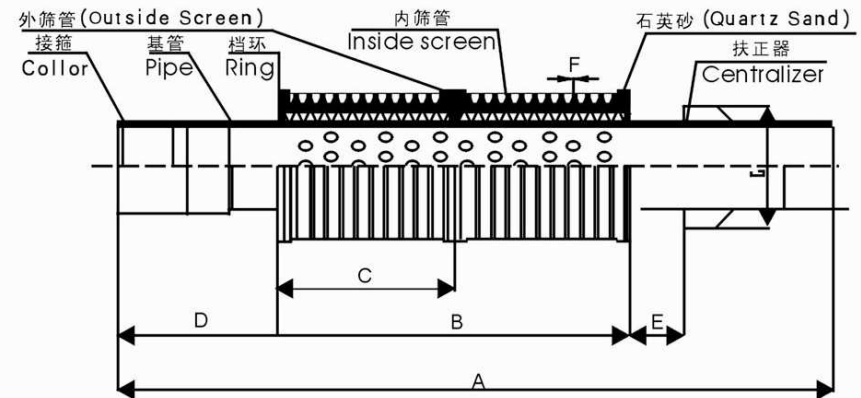
PRODUCTS  
产品展示  
龙中笼过滤器

### 龙中笼专业过滤器

龙中笼专业过滤器基本上可制造成各种形式，适合于各种流体或固体分离的需要或建筑需求。龙中笼过滤器也使用碳钢材料。公司还提供了经济、高效内管，极大方便了客户的需求。根据客户需要进行喷涂、镀锌、电解法抛光、镀铬等等。

### LongZhongLong Specialty Screens

Specialty steel screens can take nearly any form, and fit nearly any liquid/solid separation need or architectural concept. Other materials such as carbon steel are used in making LongZhongLong screens. In addition, we offer economical, efficient base pipe to satisfy the requirements of our customers. Our steel screens can also be custom-treated with powder coating, aluminizing, galvanizing electropolishing, chrome plating and many other processes.

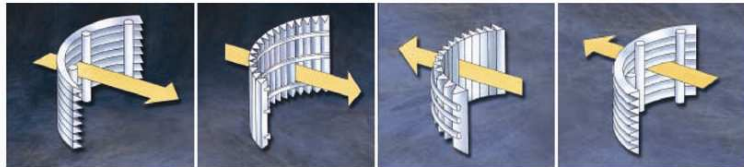




### □ 全焊式圆形过滤器的结构分类

和下图上下左右一对应的结构为:

- 1. 标准结构
- 2. 轴线结构
- 3. 内轴线结构
- 4. 反向绕线结构



公司焊接圆形过滤器可分为以下几类:

- 1. 标准结构: 外部是环状线内部是支撑杆
- 2. 轴线结构: 内部垂直的狭槽可使过滤材料上下移动而不磨损单个颗粒。
- 3. 多孔管结构: 运用多孔管作为内部支撑点和流体控制面。根据不同的用途, 可使流体流进或流出。
- 4. 内环线结构: 运用外面的支撑杆创造一个畅通无阻的内部过滤平面。
- 5. 内部轴线结构: 可以形成长的平行缝隙。在垂直状态下使用, 过滤物通过摩擦上下移动。水平环形状态下使用, 过滤物通过线的缝隙有效脱水。
- 6. 反向绕线结构: 内部使用支撑杆, 线的表面在圆柱内部。

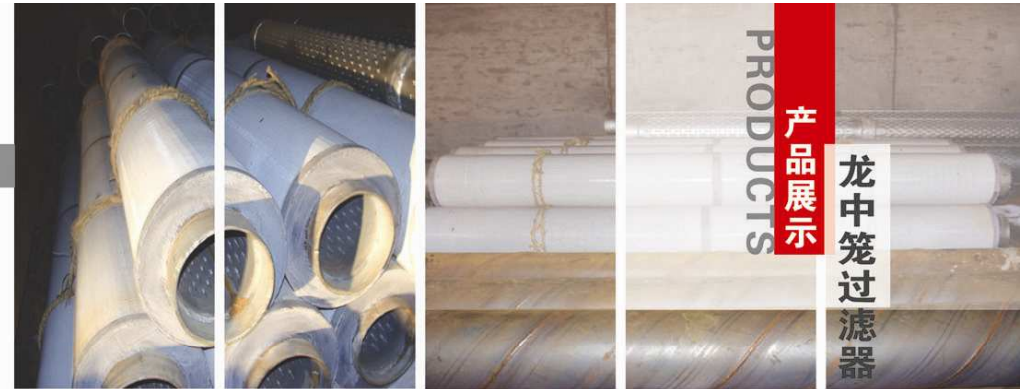
### Welded Cylindrical Screens

The constructions correspond with the following drawings respectively

- 1. Standard Construction
- 2. Axial Wire Construction
- 3. Internal Circumferential Wire Construction
- 4. Inverted Wire Construction

Our welded cylindrical screens can be categorized as designed with the media retention surface either on the outside or inside of the screen.

- 1. Standard Construction features external circumferential wire and internal support rods.
- 2. Axial Wire Construction produces vertical slots allowing filter material to move up and down without abrading the individual grains.
- 3. Channel Rod Construction uses perforated channels as the internal support elements and flow control surface. When used as a collector, flow is outside in; as a distributor, flow is inside out.
- 4. Internal Circumferential Wire Construction uses external support rods to create an unobstructed internal screen face.
- 5. Internal Axial Wire Construction creates long, parallel slots. In vertical applications, media can move up and down with abrading. In horizontal rotating applications, flow moves across the wire edges for efficient dewatering.
- 6. Inverted Wire Construction presents the wire face to the cylinder interior and uses internal support rods.



### □ 笼装管 Cage Tubing

高标准地热井的免投砾料专用管  
Free throw gravel material special screen used in high standards of geothermal wells



对于缝隙管, 为了实现从里往外过滤, 可颠倒表层丝, 支撑杆在管内, 大多数表层丝可以这样组合。

For the gap screen, in order to filter from the inside out, wire surface can be reversed with supporting bar in the pipe. And most surface wire can be combined like this way.

被反冲的表层丝  
The recoiled wire surface



这样的缝隙管直径可达到426mm, 缝宽可变。

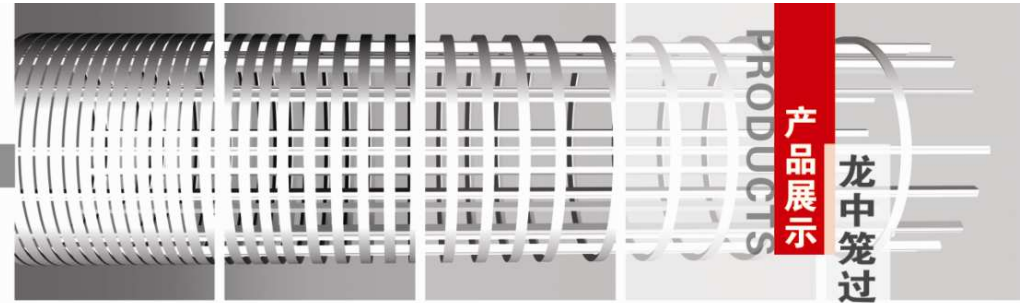
The diameter of the gap screen can achieve 426mm, and slot width is variable.



连续支撑圆筒筛网  
Continuous Support Cylinder Screen

通过使用大量的支撑杆, 一个轴向的缝隙就可产生。这些过滤元件被称之为连续支撑圆筒筛网。最小缝宽: 0.1mm。

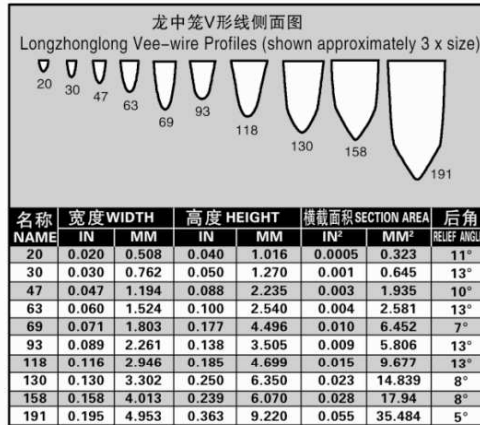
By using a large number of supporting bars, an axial slot can be generated. These filter elements has been described as a continuous support cylindrical screen. Minimum Slot Width: 0.1mm.



产品展示

龙中笼过滤器

□ 技术数据 Technical Data



龙中笼过滤器在反冲洗滤油机上的应用  
The applications of LongZhongLong Screens in backwash oil filter.

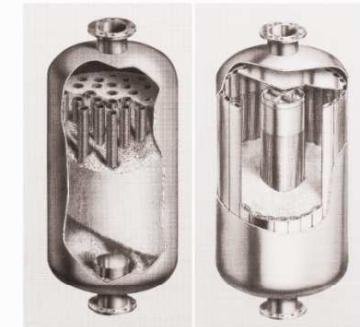
线型号 Wire Number	侧面宽 Profile Width	侧面高 Profile Height	线型号 Wire Number	侧面宽 Profile Width	侧面高 Profile Height	线型号 Wire Number	侧面宽 Profile Width	侧面高 Profile Height
70	.060	.085	156	.125	.188	.100	.078	.140
100	.086	.125	187	.156	.219	.132	.098	.189
132	.109	.156	217	.188	.250	.156	.111	.225
156	.135	.188	250	.219	.313	.187	.146	.263
187	.172	.219						
217	.188	.266						
250	.219	.281						

Dimensions are based upon a specified opening.  
Larger openings can be obtained for each respective wire size by the use of spacers between each wire.

□ 度量衡的换算

The Conversion of Measurement

目数 (美国)	微米	毫米	英寸
625	20	0.020	0.001
500	25	0.025	0.001
400	37	0.037	0.001
325	45	0.045	0.002
270	53	0.053	0.002
230	63	0.063	0.002
200	75	0.075	0.003
170	90	0.090	0.004
140	105	0.105	0.004
120	125	0.125	0.005
100	150	0.150	0.006
80	180	0.180	0.007
70	210	0.210	0.008
60	250	0.250	0.010
50	300	0.300	0.012
45	355	0.355	0.014
40	420	0.420	0.017
35	500	0.500	0.020
25	710	0.710	0.028
20	850	0.850	0.033
18	1003	1.003	0.039
16	1240	1.240	0.049
14	1405	1.405	0.055
12	1680	1.680	0.066
10	2057	2.057	0.081
7	2812	2.812	0.111
5	4000	4.000	0.157



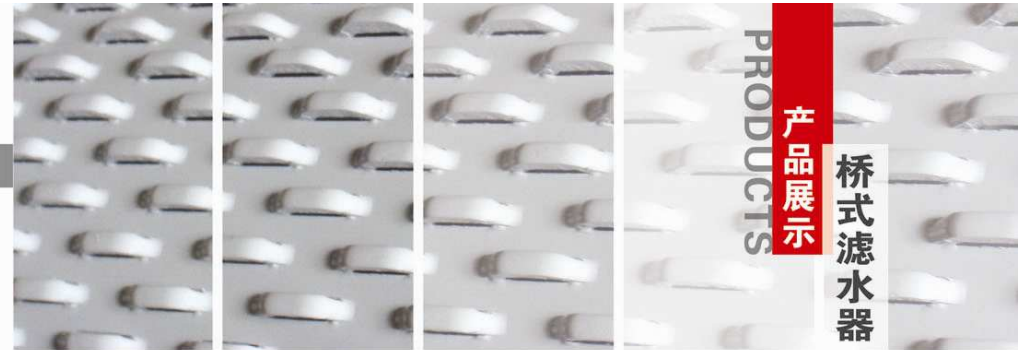
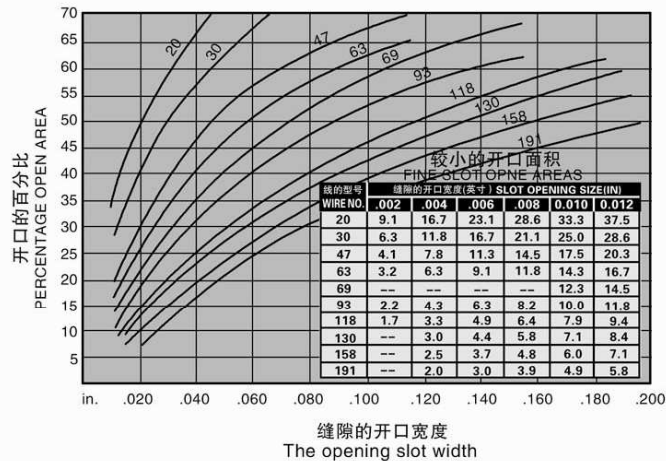
龙中笼过滤器在炼油机上的应用  
The applications of Longzhonglong  
Screens in oil refining machines



龙中笼在水处理设备中的应用  
The applications of Longzhonglong  
Screens in water treatment equipments



□ 龙中笼过滤器的开口面积  
Open Area of LongZhongLong Screens



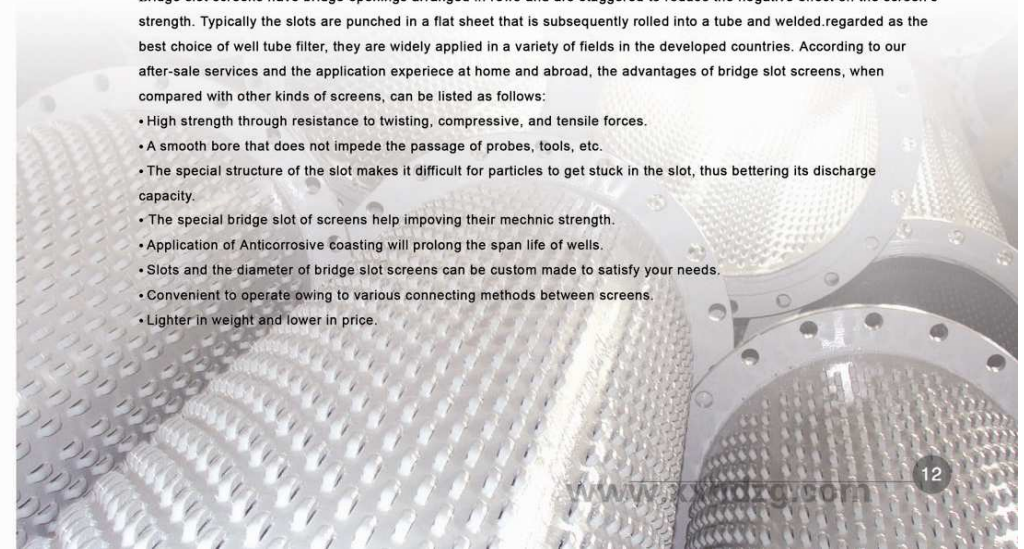
桥式滤水器是一种有桥形孔眼的滤水器材。它在发达国家早已被广泛使用。从事水文地质勘探、钻井、凿井施工、水库降水、基础深挖降水、地热开发利用、矿泉水开发利用。地温空调，坏井复修，地下水源地取水等，八十年代地质矿产部开始引进推广，并取得令人满意的效果。被誉为理想的水井过滤器。根据国内外的使用经验以及我单位近十几年跟踪服务调研后，认为桥式滤水器与其它类型的滤水器相比具有以下优点：

□桥形孔口地特殊结构使得砾石不易阻塞孔眼，据德国诺尔德公司试验，传统的滤水器填砾石孔隙率要降低40%，而桥式滤水器仅下降10%。所以桥式滤水器有较高的过水能力。水井经洗井除砂后可获得清洁无砂的水源。

- 滤水器的特殊孔形结构起到了增强滤水器机械强度的效果。因此，具有较高的机械强度。
- 根据用户需要，镀（涂）有不同的防腐层，可提高水井的使用寿命。
- 桥式滤水器系采用钢板冲孔，卷制而成，因此重量轻、价格便宜。
- 可采用多种连接方式，因此下管操作方便。
- 可根据用户要求，改变其桥孔的缝隙，使用户获得满意的桥孔隙率。
- 可根据用户要求，提供任意直径的桥式滤水器，极大地方便了用户。

Bridge slot screens have bridge openings arranged in rows and are staggered to reduce the negative effect on the screen's strength. Typically the slots are punched in a flat sheet that is subsequently rolled into a tube and welded. regarded as the best choice of well tube filter, they are widely applied in a variety of fields in the developed countries. According to our after-sale services and the application experience at home and abroad, the advantages of bridge slot screens, when compared with other kinds of screens, can be listed as follows:

- High strength through resistance to twisting, compressive, and tensile forces.
- A smooth bore that does not impede the passage of probes, tools, etc.
- The special structure of the slot makes it difficult for particles to get stuck in the slot, thus bettering its discharge capacity.
- The special bridge slot of screens help improving their mechanic strength.
- Application of Anticorrosive Coasting will prolong the span life of wells.
- Slots and the diameter of bridge slot screens can be custom made to satisfy your needs.
- Convenient to operate owing to various connecting methods between screens.
- Lighter in weight and lower in price.





□ 桥式滤水器的主要规格

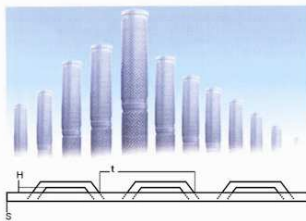
Specifications of Bridge Slot Screen

公称规格 (mm)	146	159	219	273	325	377	426	529
内 径	130	140 138	200 198	254 250 246	305 300 297 357	350 346 406 400	398 502 500	498
壁 厚	5	5 6	5 6	5 6 8	5 6 8	5 6 8	5 6 8	6 7 8
接管外径	146	160 162	220 226	274 278 278	325 328 329 377	378 379 426 428 432	529 530 531	

□ 力学性能

Mechanical Property

公称规格 (mm)	159	219	273	325	377	426	529
壁 厚 (P)	5 6	5 6	5 6 8	5 6 8	5 6 8	5 6 8	6 7 8
拉力强度 (KN)	230 270	320 390	400 490 653 480	570 760 560 670 893 630	760 1048 782 944	1296	
临界抗挤压应力 (N/cm <sup>2</sup> )	520 690	340 450	170 230 306 136	203 270 128 183 244 92	135 203 90 136	186	



桥式滤水器的长度设计在3.1米，可以根据用户的需要，我们的工程师建造你们所需要的产品及解决方案。

Usually the length of Bridge Slot Screen is 3.1m, and our engineer also can design the products and supply the best solution as per the clients' special requirements.

□ 桥式缝隙的选择

Selection of Slot Size

含水层分类	砾石	粗砂	中砂	细砂	粉砂
筛分结果 (mm)	1-2.5	0.5-1	0.25-0.5	0.1-0.25	0.1-0.25
桥孔缝隙 (mm)	3	1.5-2	1	1	0.75
填砾规格 (mm)	4-20	2-8	2-3	2-3	2-3
填砾厚度 (mm)	75-100	100	100-200	100-200	100-200

□ 桥的尺寸及孔隙率

Slot Sizes and Open Area

壁厚S=	5					6					8				
缝隙H=	0.75	1	1.5	2	2.5	0.75	1	1.5	2	2.5	0.75	1	1.5	2	2.5
桥横向间距d	12.75					15					16				
桥纵向间距l	45.50					52					62				
空隙率	15.5%	17%	21%	24%	26.5%	14.5%	15.7%	18.9%	22.2%	25.7%	13.5%	14.5%	17.9%	21.2%	24.1%



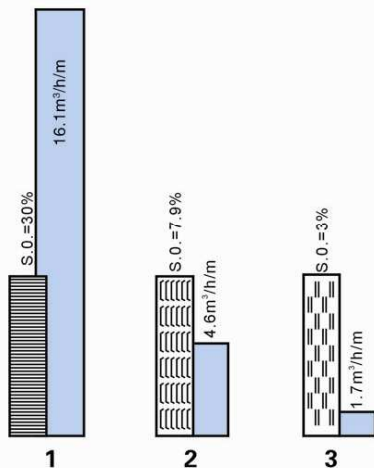
### □ 桥式滤水器材质及表面防腐层的选择

1. 一般情况下可以选用Q235(A3)材质, 表面镀锌或涂有防腐涂层的滤水器。
2. 若水质中含有腐蚀性化学元素或水井的造价、寿命等要求特别高, 可选用不锈钢材质的滤水器或表面涂有防锈、防腐涂层的滤水器。



### Choice of Material and Anticorrosive Coating of Bridge Slot Screens

In the ordinary course of events, we choose galvanized or coated Q235(A3) carbon steel or stainless steel. Anti-corrosive coating and antirust coating are available in accordance with the requirements of customers.



### □ 最佳开采流量

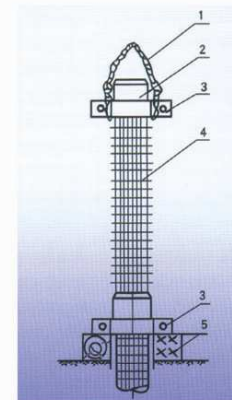
缝隙宽度、直径和长度均相同的滤水器, 桥式滤水器提高流量3-9倍。

- 1、龙中笼过滤器
- 2、桥式滤水器
- 3、条式滤水器

### Optimum Exploitation Flow

Bridge slot screens increase its flow to three to nine times, when compared with other kinds of screens with the same slot width, diameter and length.

1. Longzhonglong screens
2. Dridge slot screens
3. Strip slot screen



### □ 悬吊下管法

- 1—钢丝绳 2—联接套 3—套管夹板  
4—滤水器 5—方木

### Suspensory Screen--Laying Methods

1. steel wire ropes 2. linking sheaths 3. casing plywood  
4. slot screen 5. square lumber

### □ 下管时注意

- 1、核算滤水器的强度。
- 2、防止滤水器与坚硬物碰撞。
- 3、下管时要缓慢、均匀, 不要猛墩。

### Precautions When Laying the Screens

1. Checking the intensity of screens.
2. Preventing screens from colliding with hard substances.
3. Laying screens slowly and evenly.





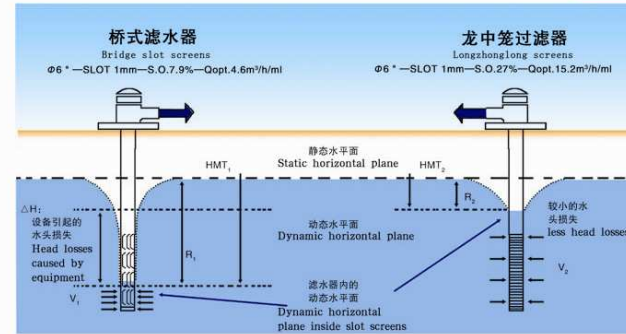
### □ 滤水器的安装

- 1、必须采用悬吊下管工艺。
- 2、下管前应仔细检查滤水器是否在搬运过程中产生变形，必要时加以调整。
- 3、下管前稀释泥浆，使比重不大于1.2T/M3，以免堵塞桥式滤水器的缝隙，而使滤水器内外形成较大的压力差，在这种情况下，滤水器就有变形的可能。现场使用包扎棕皮、尼龙网更易产生这种情况。所以，使用中要特别注意避免滤水器内外形成较大的压力差。
- 4、下管操作要平稳：若管遇阻时，要人力扭转一定角度再下，同时检查滤水器是否由于受阻而变形。若因受阻不能下入，不得强行下管。
- 5、一般情况下，要采用压缩机洗井，若需采用活塞洗井，拉活塞时要轻轻轻放，特别注意避免猛提猛拉，以免使管子内外形成较大的压力差而使管子发生变形。



### Installation of Screens

1. Adopt the suspensory screen-laying method.
2. Carefully check whether screens become deformed before laying them down, and adjust them when necessary.
3. Dilute slurry before laying down screens with the proportion of less than 1.2T/M3, otherwise, the blocking of slots will produce great pressure difference inside and outside the screens, leading to the possibility of deformation. Similarly, the use of nylon net will cause the deformation, therefore great pressure difference should be avoided.
4. Lay down screens steadily. If not smoothly, adjust the angle of screens and check whether they are deformed as a result of blocking before trying again. If screens cannot be laid down on account of blocking, forcibly trying should be forbidden.
5. Generally, compressors are used to flush wells. when pistons are necessary, operating pistons should be careful in case of the deformation of screens as a result of great pressure difference caused by the violent operation of pistons.



### □ 更低的水价

- 使用桥式滤水器的水井能很好低适应含水层，是一种效益高的采水模式。
- 降低水的流入速度 ( $V_1 > V_2$ )
  - 降低的压力降
  - 降小的水头损失 ( $R_1 > R_2$ )
  - 较高的流量 ( $HMT_1 > HMT_2$ )
  - 水中不含沙
  - 潜在的延长泵的使用寿命

### Lower Water Price

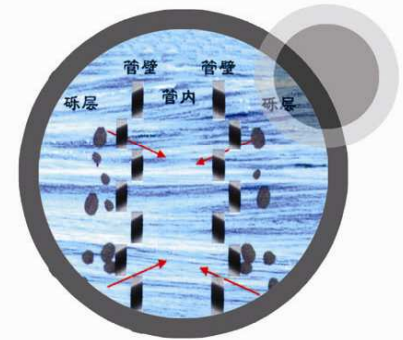
- Water wells, when using bridge slot screens, can easily adjust themselves to aquifer and are regarded as a profitable mode of obtaining water.
- reducing the water velocity ( $V_1 > V_2$ )
  - reduction of pressure fall
  - reduction of the head loss ( $R_1 > R_2$ )
  - higher flow rate ( $HMT_1 > HMT_2$ )
  - no sand in the water
  - prolonging the life span of pumps

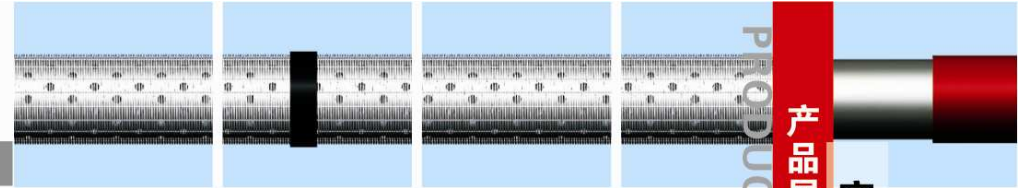
### □ 无阻塞过水断面

桥式滤水器的特殊工艺结构可以使沙粒直接停流在管径的外面从而改变水流向减少水流阻力。

### No Clogging Water-Carrying Section

Special construction of bridge slot screens make it possible to keep grains of sand out of screens, thus changing the direction of water flow and lessen its resistance.





穿孔管

穿孔管，材质为碳钢或不锈钢，主要用于石油过滤和固井。

HuaDong Perforated Pipe

The perforated pipe with cutting edge technology, which is manufactured with carbon steel or stainless steel, used for the application of oil reservation layer without much sand or for application of prevents the rock bits dropping off the well bore.



产品特点:

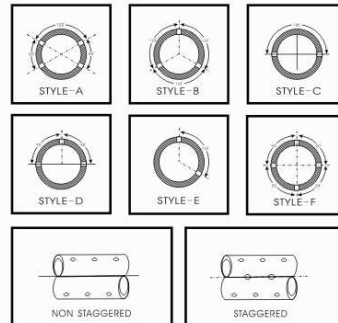
- 1.每根管均需内外打磨。
- 2.每个孔都经人工检测和机械打磨处理。

Feature

- 1. Every joint perforated by us is deburred internally and externally.
- 2. Each hole is visually inspected and burr cleaned.



Engineering Drawing



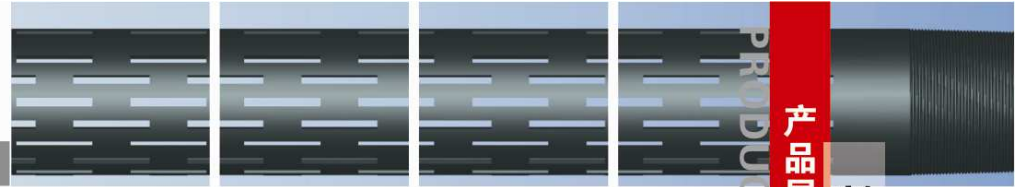
主要技术规格

Mainly Technical Specification

Pipe Size (Inch)	Holes NO (Feet)	Size of Hole (Inch)	Perforated Area per Feet
3/4"	48	3/16"	2.15
1"	54	5/16"	4.14
1-1/4"	66	5/16"	5.06
1-1/2"	78	5/16"	5.06
2-1/16"	78	5/16"	5.98
2-3/8"	90	3/8"	9.94
2-7/8"	102	3/8"	11.26
3-1/2"	126	3/8"	13.91
4"	138	3/8"	15.24
4-1/2"	150	3/8"	16.56
5"	162	3/8"	17.88
5-1/2"	174	3/8"	19.21
6-5/8"	186	3/8"	20.53
7"	222	3/8"	24.51
9-5/8"	294	3/8"	32.46

孔的数量和样式，我们可以根据您的具体要求进行生产，以满足您的需要。

We can punch the holes in any size and pattern, which according to your specific requirements.



### 割缝管

开采石油时使用割缝管，可以过滤掉99%的砂尘，使油管的维修率降低80%，并且提高油管过滤砂尘的力度、连续性和稳定性。我厂的激光切割术，可以切割出细而光滑、精密度高的割缝。构造简单，效果显著。管壁割缝可达0.10-0.5mm。



### Slotted Casing Pipe

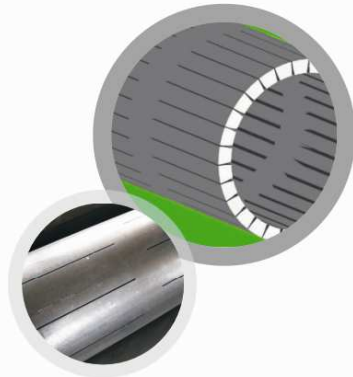
The slotted pipes using in oil exploration can prevent 99% sand, decrease 80% of oil well heavy repair and increase the oil well's strength, integrity and stability of keeping off sand. Meanwhile, the laser incision can make very small cuts with smooth surface and high precision. Although its structure is simple, it is very effective. It has small cuts of 0.10-0.5mm in the tube wall.

### 产品特点:

- 1.如果油管的输出量低，或者想提高油管的输出量，那么割缝管将是一个有效且经济的解决方案。
- 2.我们提供割缝截面为矩形和梯形在内的各种割缝管，以满足您的需求。
- 3.我们的产品割缝均匀、强度高、抗磨损和腐蚀程度强。

### Feature

1. The slotted liner is a robust and cost-effective solution for long completions or low productivity wells.
2. We offer straight and keystone slot in a wide range of slotting patterns to satisfy the required open area.
3. High rigidity, resisting scrape and abrasion, high intensity, anti-corrosion and even distribution.

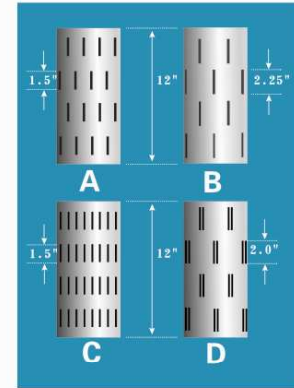


### 核心技术数据

- 1.材料：不锈钢，碳钢
- 2.产品类别或其他：石油套管，油管
- 3.单根管长：≤15米
- 4.外径：50-200毫米
- 5.壁厚：≤16毫米
- 6.缝宽：(0.10-0.40)毫米±0.03毫米
- 7.割缝数量：遵照订单
- 8.割缝布局：平行，交叉，螺旋
- 9.割缝间隙：遵照订单

### Main Technical Data

1. Material: stainless steel, carbon steel
2. Categories of pipes: petroleum casing pipe, oil pipe
3. Length of pipe (single): ≤15m
4. Outside diameter of pipe: 50-200mm
5. Wall thickness: ≤16mm
6. Width of slot: (0.10-0.40)mm±0.03mm
7. Number of slots: according to order
8. Distribution types of slots: parallel, crisscross, spiral
9. Distance of slots: according to order

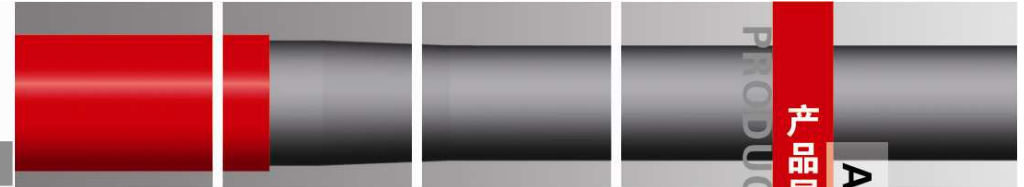


### The Main Specification

API Std. Casing			ID (mm)	Length (m)	Slot Length (mm)	Slot No./m	Slot Width (mm)	Slot Tolerance	Valid Filter Area (cm <sup>2</sup> /m)	Max. Strength (kn)
Spec. (mm)	Thickness (mm)	Per Weight (Kg/m)								
60.32	5	6.84	50.3	3	80	200	0.3	±50	48	512.54
73.02	5.5	9.15	62	3	80	240	0.3	±50	57.6	688.55
88.9	6.5	13.22	75.9	3	80	280	0.3	±50	67.2	995.1
101.6	6.5	15.22	88.6	3	80	300	0.3	±50	72	1151.2
114.3	7	18.47	100.3	10	80	320	0.3	±50	76.8	1400.4
127	7.52	22.13	112	10	80	340	0.3	±50	81.6	1673.8
139.7	7.72	25.11	124.3	10	80	360	0.3	±50	86.4	1900.2
	9.17	29.48	121.4	10	80	360	0.3	±50	86.4	2232.4
168.3	8.94	35.09	150.4	10	80	400	0.3	±50	96	2672.95
177.8	8.05	33.68	161.7	10	80	440	0.3	±50	105.6	2559.2
	9.19	38.19	159.4	10	80	440	0.3	±50	105.6	2940.7

### 我们可以按照客户的要求进行专门生产。

We also can produce the products according to the clients specific requirements.



□ 石油套管

华东制管厂拥有一流的生产设备，先进的技术和精确的检测设备，可为煤矿，水资源开采，石化工业和建筑等行业提供各种规格的API套管。

由于我们的产品质量卓越，技术先进，服务到位，在国内外客户中建立了良好声誉。

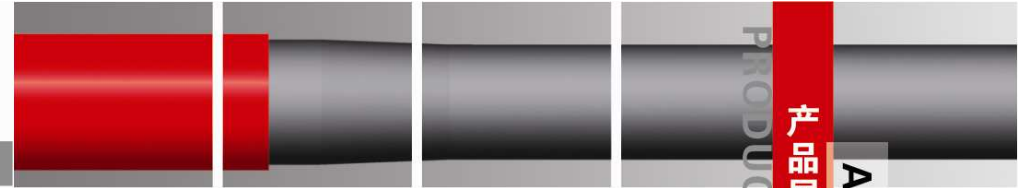
API Casing Pipe

With sophisticated manufacturing Facilities and advanced technologies and perfect detection measures, we, HuaDong Screen, offer a wide variety of API casing pipes applied in many different industries such as mining & mineral processing, municipal water supply, refining & petrochemical and construction, etc. Because of the first-class quality, advanced technology and excellent service, our API casing pipes have earned a good reputation at home and abroad.



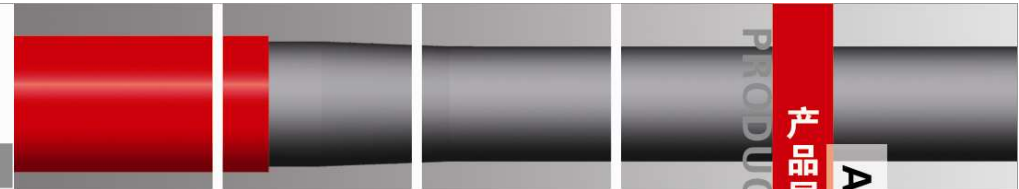
API Casing Pipes

Item	OD (mm)	WEIGHT** (kg/m)	T (mm)	The Connection Processing								
				H40	J55 K55	M65	L80	N80	C90 <sup>d</sup> T95 <sup>d</sup>	P110	Q125 <sup>d</sup>	
1	2	3	4	5	6	7	8	9	10	11	12	13
4-1/2	9.50	114.30	14.14	5.21	PS	PS	PS					
4-1/2	10.50	114.30	15.63	5.69		PSB	PSB					
4-1/2	11.60	114.30	17.26	6.35		PSLB	PLB	PLB	PLB	PLB	PLB	
4-1/2	13.50	114.30	20.09	7.37			PLB	PLB	PLB	PLB	PLB	
4-1/2	15.10	114.30	22.47	8.56							PLB	PLB
5	11.50	127.00	17.11	5.59		PSB	PS					
5	13.00	127.00	19.35	6.43		PSLB	PSLB					
5	15.00	127.00	22.32	7.52			PSLB	PSLB	PSLB	PSLB	PSLB	
5	18.00	127.00	26.79	9.19			PSLBE	PSLB	PSLB	PSLB	PSLB	PSLB
5	21.40	127.00	31.85	11.10			PSLBE	PSB	PSB	PSB	PSB	PSB
5	23.40	127.00	34.53	12.14				PSB	PSB	PSB	PSB	PSB
5	24.10	127.00	35.86	12.70				PSB	PSB	PSB	PSB	PSB
5-1/2	14.00	139.70	20.83	6.20	PS	PS	PS					
5-1/2	15.50	139.70	23.07	6.98		PSLBE	PSLB					
5-1/2	17.00	139.70	25.30	7.72		PSLBE	PLB	PLBE	PLBE	PLBE	PLBE	
5-1/2	20.00	139.70	29.76	9.17			PLB	PLBE	PLBE	PLBE	PLBE	
5-1/2	23.00	139.70	34.23	10.54			PLB	PLBE	PLBE	PLBE	PLBE	PLBE
5-1/2	26.80	139.70	39.88	12.70						P		
5-1/2	29.70	139.70	44.20	14.27						P		
5-1/2	32.60	139.70	48.51	15.88						P		
5-1/2	35.30	139.70	52.53	17.45						P		
5-1/2	38.00	139.70	56.55	19.05						P		
5-1/2	40.50	139.70	60.27	20.65						P		
5-1/2	43.10	139.70	61.14	22.22						P		



Item		OD (mm)	WEIGHT** (kg/m)	T (mm)	The Connections' Processing							
					H40	J55 K55	M65	L80	N80	C90 <sup>d</sup> T95 <sup>d</sup>	P110	Q125 <sup>d</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13
6-5/8	20.00	168.28	29.76	7.32	PS	PSLB	PSLB					
6-5/8	24.00	168.28	35.72	8.94		PSLBE	PLB	PLBE	PLBE	PLBE	PLBE	
6-5/8	28.00	168.28	41.67	10.59			PLB	PLBE	PLBE	PLBE	PLBE	
6-5/8	32.00	168.28	47.62	12.06				PLBE	PLBE	PLBE	PLBE	PLBE
7	17.00	177.80	25.30	5.87	PS							
7	20.00	177.80	29.76	6.91	PS	PS	PS					
7	23.00	177.80	34.23	8.05		PSLBE	PLB	PLBE	PLBE	PLBE		
7	26.00	177.80	38.69	9.19		PSLBE	PLB	PLBE	PLBE	PLBE	PLBE	
7	29.00	177.80	43.16	10.36			PLB	PLBE	PLBE	PLBE	PLBE	
7	32.00	177.80	47.62	11.51			PLB	PLBE	PLBE	PLBE	PLBE	
7	35.00	177.80	52.09	12.65				PLBE	PLBE	PLBE	PLBE	PLBE
7	38.00	177.80	56.55	13.72				PLBE	PLBE	PLBE	PLBE	PLBE
7	42.70	177.80	63.54	15.88						P		
7	46.40	177.80	69.05	17.45						P		
7	50.10	177.80	74.56	19.05						P		
7	53.60	177.80	79.77	20.62						P		
7	57.10	177.80	84.97	22.22						P		
7-5/8	24.00	193.68	35.72	7.62	PS							
7-5/8	26.40	193.68	39.29	8.33		PSLBE	PSLB	PLBE	PLBE	PLBE		
7-5/8	29.70	193.68	44.20	9.52			PLB	PLBE	PLBE	PLBE	PLBE	
7-5/8	33.70	193.68	50.15	10.92			PLB	PLBE	PLBE	PLBE	PLBE	
7-5/8	39.00	193.68	58.04	12.70				PLBE	PLBE	PLBE	PLBE	PLBE
7-5/8	42.80	193.68	63.69	14.27				PLB	PLB	PLB	PLB	PLB
7-5/8	45.30	193.68	67.41	15.11				PLB	PLB	PLB	PLB	PLB
7-5/8	47.10	193.68	70.09	15.88				PLB	PLB	PLB	PLB	PLB
7-5/8	51.20	193.68	76.19	17.45						P		
7-5/8	55.30	193.68	82.30	19.05						P		
7-3/4	46.10	196.85	68.60	15.11				P	P	P	P	P
8-5/8	24.00	219.08	35.72	6.71		PS	PS					
8-5/8	28.00	219.08	41.67	7.72	PS		PS					
8-5/8	32.00	219.08	47.62	8.94	PS	PSLBE	PSLB					
8-5/8	36.00	219.08	53.57	10.16		PSLBE	PSLB	PLBE	PLBE	PLBE	PLBE	

Item		OD (mm)	WEIGHT** (kg/m)	T (mm)	The Connections' Processing							
					H40	J55 K55	M65	L80	N80	C90 <sup>d</sup> T95 <sup>d</sup>	P110	Q125 <sup>d</sup>
1	2	3	4	5	6	7	8	9	10	11	12	13
8-5/8	40.00	219.08	59.53	11.43			PLB	PLBE	PLBE	PLBE	PLBE	
8-5/8	44.00	219.08	65.48	12.70				PLBE	PLBE	PLBE	PLBE	
8-5/8	49.00	219.08	72.92	14.15				PLBE	PLBE	PLBE	PLBE	PLBE
9-5/8	32.30	244.48	48.07	7.92	PS							
9-5/8	36.00	244.48	53.57	8.94	PS	PSLB	PSLB					
9-5/8	40.00	244.48	59.53	10.03		PSLBE	PSLB	PLBE	PLBE	PLBE		
9-5/8	43.50	244.48	64.73	11.05			PLB	PLBE	PLBE	PLBE	PLBE	
9-5/8	47.00	244.48	69.94	11.99			PLB	PLBE	PLBE	PLBE	PLBE	PLBE
9-5/8	53.50	244.48	79.62	13.84				PLBE	PLBE	PLBE	PLBE	PLBE
9-5/8	58.40	244.48	86.91	15.11				PLB	PLB	PLB	PLB	PLB
9-5/8	59.40	244.48	88.40	15.47						P		
9-5/8	64.90	244.48	96.58	17.07						P		
9-5/8	70.30	244.48	104.62	18.64						P		
9-5/8	75.60	244.48	112.50	20.24						P		
10-3/4	32.75	273.05	48.74	7.09	PS							
10-3/4	40.50	273.05	60.27	8.89	PS	PSB	PSB					
10-3/4	45.50	273.05	67.71	10.16		PSBE	PSB					
10-3/4	51.00	273.05	75.90	11.43		PSBE	PSB	PSBE	PSBE	PSBE	PSBE	
10-3/4	55.50	273.05	82.59	12.57			PSB	PSBE	PSBE	PSBE	PSBE	
10-3/4	60.70	273.05	90.33	13.84						PSBE	PSBE	
10-3/4	65.70	273.05	97.77	15.11						PSB	PSB	PSBE
10-3/4	73.20	273.05	108.93	17.07						P		PSB
10-3/4	79.20	273.05	117.86	18.64						P		
10-3/4	85.30	273.05	126.94	20.24						P		
11-3/4	42.00	298.45	62.50	8.46	PS							
11-3/4	47.00	298.45	69.94	9.53		PSB	PSB					
11-3/4	54.00	298.45	80.36	11.05		PSB	PSB					



Item	OD (mm)		WEIGHT <sup>++</sup> (kg/m)	T (mm)	The Connections' Processing							
	1	2			H40	J55 K55	M65	L80	N80	C90 <sup>d</sup> T95 <sup>d</sup>	P110	Q125 <sup>d</sup>
11-3/4	60.00	298.45	89.29	12.42		PSB	PSB	PSB	PSB	PSB	PSB	PSB
11-3/4	65.00	298.45	96.73	13.56				P	P	P	P	P
11-3/4	71.00	298.45	105.66	14.78				P	P	P	P	P
13-3/8	48.00	339.72	71.43	8.38	PS							
13-3/8	54.50	339.72	81.10	9.65		PSB	PSB					
13-3/8	61.00	339.72	90.78	10.92		PSB	PSB					
13-3/8	68.00	339.72	101.19	12.19		PSB	PSB	PSB	PSB	PSB	PSB	
13-3/8	72.00	339.72	107.15	13.06				PSB	PSB	PSB	PSB	PSB
16	65.00	406.40	96.73	9.53	PS							
16	75.00	406.40	111.61	11.13		PSB	PSB					
16	84.00	406.40	125.01	12.57		PSB	PSB					
16	109.00	406.40	162.21	16.66		P		P	P		P	P
18-5/8	87.50	473.08	130.21	11.05	PS	PSB	PSB					
20	94.00	508.00	139.89	11.13	PSL	PSLB	PSLB					
20	106.50	508.00	158.49	12.70		PSLB	PSLB					
20	133.00	508.00	197.93	16.13		PSLB						

p----- plain ends; S-----STC L-----LC B-----BC E-----XC  
<sup>a</sup> Code is for ordering reference.  
<sup>b</sup> The unit length of nominal weight(including the pin and box). The team two is only for reference.  
<sup>c</sup> The densities of martensite chromium steels (L80 types 9Cr and 13Cr) are different from carbon steels. Therefore, the masses values shown above are not accurate to martensite chromium steels.

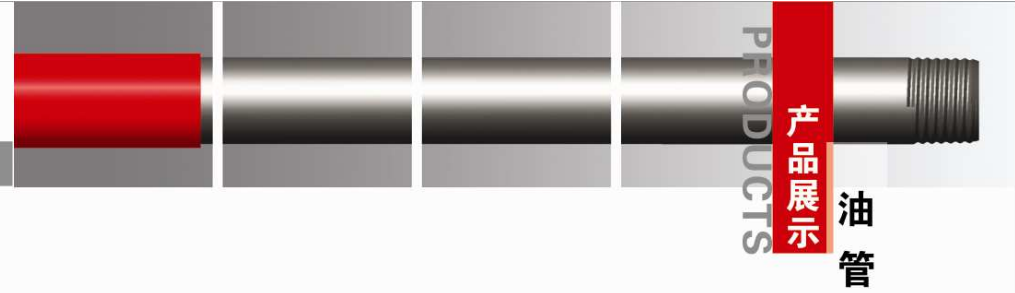
ISO/API Flat End Casing and Lined Pipe

Item		Out Diameter D mm	Plain- End Casing Liner W Kg/m	Wall Thickness T mm
1	2			
1	2	3	4	5
3-1/2	9.92	88.90	14.76	7.34
4	11.35	101.60	16.89	7.26
4-1/2	13.05	114.30	19.42	7.37
5	17.95	127.00	26.71	9.19
5-1/2	19.83	139.70	29.51	9.17
6-5/8	27.66	168.28	41.18	10.59

Producing Methods and Heating Treatment

ITEM	Grade	Type	Made Method <sup>a</sup>	Hot deal	The Lowest Temperature of Tempering
1	2	3	4	5	6
1	H40		S&EW	None standard	
	J55		S&EW	None standard <sup>b</sup>	
	K55		S&EW	None standard <sup>b</sup>	
	N80	1	S&EW	<sup>c</sup>	
	N80	Q	S&EW	Q&T	
2	M65		S&EW	<sup>d</sup>	
	L80	1	S&EW	Q&T	
	L80	9Cr	S	Q&T <sup>e</sup>	566
	L80	13 Cr	S	Q&T <sup>e</sup>	593
	C90	1	S	Q&T	593
	C90	2	S	Q&T	621
	C95		S&EW	Q&T	621
	T95	1	S	Q&T	538
T95	2	S	Q&T	649	
3	P110		S&EW <sup>f</sup>	Q&T	649
4	Q125	1	S&EW <sup>g</sup>	Q&T	
	Q125	2	S&EW <sup>g</sup>	Q&T	
	Q125	3	S&EW <sup>g</sup>	Q&T	
	Q125	4	S&EW <sup>g</sup>	Q&T	

<sup>a</sup> S-----Seamless process; EW-----Welded process.  
<sup>b</sup> Normalized(N), normalized and tempered(N&T) or quenching tempering(Q&T) can be chosen by the manufacturer, or following the order requirement.  
<sup>c</sup> The manufacturer will chose the normalized or normalized and tempered.  
<sup>d</sup> All the pipe shall be under heat treatment. Normalized(N), normalized and tempered (N&T) or quenching tempering(Q&T) can be chosen by the manufacturer, or following the order requirement.  
<sup>e</sup> The pipe of Grade type 9Cr and type 13Cr shall use the processing of air quenching .  
<sup>f</sup> P110 will be electric welded specially.  
<sup>g</sup> The specially requirements of the P110 and Q125.



**Our Specification of API Tube**

Specifications	Grade and Connection							Standard
	OD mm(in)	Wall Thickness mm	H40	J55	L80	N801 N80Q	C90	
42.16 (1.660)	3.18							
	3.56	N/U	N/U	N/U	N/U	N/U	N/U	
	4.85	U	U	U	U	U	U	U
48.26 (1.900)	3.18							
	3.68	N/U	N/U	N/U	N/U	N/U	N/U	
	5.08	U	U	U	U	U	U	U
	6.35							
60.32 (2-3/8)	4.24							
	4.83							
	6.45							
	7.49							
	8.53							
73.02 (2-7/8)	5.51	N/U	N/U	N/U	N/U	N/U	N/U	N/U
	7.01			N/U	N/U	N/U	N/U	N/U
	7.82			N/U	N/U	N/U	N/U	N/U
	8.64			U		U		
	9.96							
88.90 (3-1/2)	11.18	U	N	N	N	N		
	5.49							
	6.45	N/U	N/U	N/U	N/U	N/U	N/U	N/U
	7.34	N	N	N	N	N		
	9.52			N/U	N/U	N/U	N/U	

**Our Specification of API Tube**

Specifications	Grade and Connection							Standard
	OD mm(in)	Wall Thickness mm	H40	J55	L80	N801 N80Q	C90	
88.90 (3-1/2)	10.92							
	12.09							
	13.46							
101.60 (4)	5.74	N	N	N	N	N	N	N
	6.65	U	U	U	U	U	U	U
	8.38							
	10.54							
114.30 (4-1/2)	12.70							
	15.49							
	6.88	N/U	N/U	N/U	N/U	N/U	N/U	N/U
	8.56							
	9.65							
	10.92							
	12.70							
	14.22							
	16.00							

**Note: N---Non-upset thread and coupling  
U---External upset thread and coupling**





□ 用途和特点

HD 系列弓形弹簧套管扶正器，全部为冲压编制结构，没有焊接缺陷。是替代旧的焊接式套管扶正器的新产品，具有结构简单、安全可靠、强度高、弹性好、现场使用方便等特点。可以广泛应用于直井或大斜度井的下套管施工作业中，具有起动力小、复位力大等优点，是提高固井质量的一项重要措施。

HD 系列弓形弹簧套管扶正器，分为单弓形（I 型）、双弓形（II 型）和三弓形（III 型）三种。有从 2-7/8 in 到 20 in 各种套管和井眼系列。经中国石油工业井下工具质量监督和检测中心检测，达到国家行业标准 GB/T19831.1-2005、GB/T19831.2-2008《弓形弹簧套管扶正器》的要求。

HD 系列弓形弹簧套管扶正器由圆箍、弓形弹簧片，销子组成。每种规格的扶正器由相应的弓形弹簧片组合而成。弓形弹簧片材料为 65Mn，经成型热处理后，均达到标准要求。销子为直径 5mm，45 号钢材料。圆箍由 3mm 厚的 A3 材料，具有强度高、变形小、锁紧可靠等优点。

Elastic Casing Centralizer Instructions | Use and Property

Series HD arch casing centralizer, which all belong to structure of stamping without welding defects. It is new product who replacing the old welding type casing centralizer, which has several features as simple structure, safe and reliable, high strength, high flexibility and convenient use in the site, etc. The elastic casing centralizer could be widely used in casing operation in both vertical wells and highly deviated well, which has power of small, great strength reduction so that improve the quality of well cementation.

Series HD arch casing centralizer divided into the single arch (type I), double arch (type II) and three arch (Type III). The series are including several casing and borehole size from 2-7/8 in to 20 in. Which has passed the test of The China petroleum industry downhole tool quality supervision and inspection testing center, which has reached requirement of the national industry standard GB/T19831.1-2005、GB/T19831.2-2008 THE ARCH ELASTIC CASING CENTRALIZER.

Series HD arch casing centralizer is made up of round hoop, bowspring and pins. Each size has made up by corresponding size bowspring. Bowspring material is 65Mn, which reach standard average after heat treatment. The diameter of centralizer pin is 5mm with 45 # steel grade as original material. The round hoop is made up by A3 material with 3mm wall thickness with high strength, deformation small, lock and reliable features etc.



安装使用方法

套管扶正器的安放间距满足施工设计要求，选用的扶正器外径应根据井眼确定。

安放方法：

1. 可以直接套在套管上。
2. 可以安装在套管接箍与接箍之间自由移动。
3. 可以用固定环安装在套管任意部位。

安装时将扶正器扣在套管上，合箍后穿进上下两个销子，将锁销片砸扁或将销钉折弯，防止销子退出，检查无误后入井内。

Installation Method of Use

The put spacing of the casing centralizer should meet the design requirements of the construction and the diameter of the centralizer should be determined according to borehole.

Installation method:

1. It can be set directly on the casing.
2. It can be installed between casing coupling and coupling for freedom movement.
3. It Can be installed on any position of the casing using fixed rings. Centralizer should be deducted on casing when installed. After co-hoop wear in the two pins top and bottom.

Flatten or bend the latch pin chip to prevent the pin out then into the correct wells. Through the carefully check and then be laid into the well.

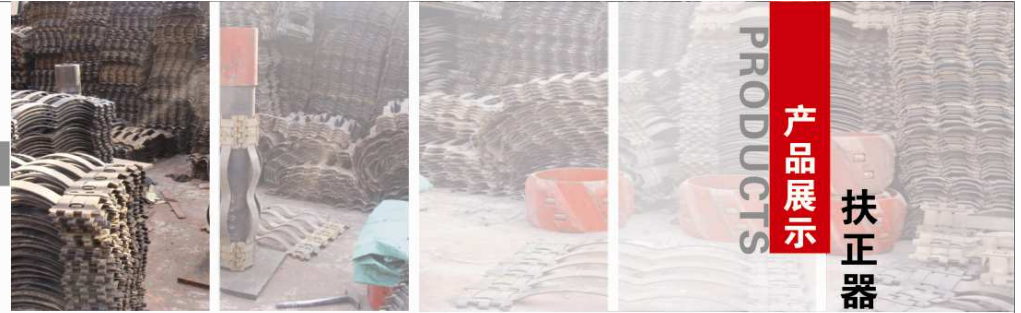




系列弹性套管扶正器结构及性能参数表

规格与代号	弹片数量	弹片最大外径 (mm)	圆箍内径 (mm)	总长度 (mm)
HD-4-1/2" x 6"	4	160	116	450/575
HD-4-1/2" x 6-1/4"	4	167	116	450/575
HD-4-1/2" x 7-7/8"	4	210	116	450/575
HD-4-1/2" x 8-1/2"	4	230	116	450/575
HD-5" x 6"	4	160	128	450/540
HD-5" x 6-3/4"	4	180	128	450/575
HD-5" x 7-7/8"	4	210	128	450/575
HD-5-1/2" x 7-7/8"	5	210	140	450/575
HD-5-1/2" x 8-1/2"	5	216/245	140	450/575
HD-5-1/2" x 8-3/4"	5	222/250	140	450/575
HD-5-1/2" x 9-7/8"	5	251/264	140	450/575
HD-5-1/2" x 9-1/2"	5	242/264	140	450/575
HD-7" x 8-1/2"	6	216/230	179	450/575
HD-7" x 8-3/4"	6	222/233	179	450/575
HD-7" x 9-1/2"	6	242/264	179	450/575
HD-7" x 9-7/8"	6	251/264	179	550/650
HD-9-5/8" x 12-1/4"	8	346	245	550/650
HD-9-5/8" x 13-3/8" 套管	8	346/352	245	550/650
HD-9-5/8" x 12-13/16"	8	378	245	550/650
HD-10-3/4" x 15-1/2"	9	405	275	550/650
HD-φ273.05 x φ374	9	374	275	550/650
HD-13-3/8" x 17-1/2"	10	440/466	342	550/650
HD-13-5/8" x 17-1/2"	11	440/466	342	550/650
HD-20" x 26"	17	696	510	550/610/650

特别说明: HD系列弓形弹簧套管扶正器的实际结构及性能参数以产品出厂检测报告为依据。



Main Structure and Technical Parameters

Specification	NO. of the Shrapnel	The Largest OD of the Shrapnel (mm)	ID of the Circular Hoop(mm)	Total Length (mm)
HD-4-1/2" x 6"	4	160	116	450/575
HD-4-1/2" x 6-1/4"	4	167	116	450/575
HD-4-1/2" x 7-7/8"	4	210	116	450/575
HD-4-1/2" x 8-1/2"	4	230	116	450/575
HD-5" x 6"	4	160	128	450/540
HD-5" x 6-3/4"	4	180	128	450/575
HD-5" x 7-7/8"	4	210	128	450/575
HD-5-1/2" x 7-7/8"	5	210	140	450/575
HD-5-1/2" x 8-1/2"	5	216/245	140	450/575
HD-5-1/2" x 8-3/4"	5	222/250	140	450/575
HD-5-1/2" x 9-7/8"	5	251/264	140	450/575
HD-5-1/2" x 9-1/2"	5	242/264	140	450/575
HD-7" x 8-1/2"	6	216/230	179	450/575
HD-7" x 8-3/4"	6	222/233	179	450/575
HD-7" x 9-1/2"	6	242/264	179	450/575
HD-7" x 9-7/8"	6	251/264	179	550/650
HD-9-5/8" x 12-1/4"	8	346	245	550/650
HD-9-5/8" x 13-3/8" Casing	8	346/352	245	550/650
HD-9-5/8" x 12-13/16"	8	378	245	550/650
HD-10-3/4" x 15-1/2"	9	405	275	550/650
HD-φ273.05 x φ374	9	374	275	550/650
HD-13-3/8" x 17-1/2"	10	440/466	342	550/650
HD-13-5/8" x 17-1/2"	11	440/466	342	550/650
HD-20" x 26"	17	696	510	550/610/650

Special note: HD series casing centralizer's actual structure and performance parameters are according to manufactured products inspection report.