

Cast Iron Drainage Pipe Systems  
for Building Drainage  
建筑排水用铸铁排水管道系统

# EXCOCEAN 卓洋

## Drainage Systems



EXCOCEAN Group  
卓洋集团

ZHUOYANG TRADING CO.,LTD  
卓洋贸易有限公司

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CAST IRON DRAINAGE PIPE SYSTEMS FOR  
BUILDING DRAINAGE  
建筑排水用铸铁排水管道系统

# HELLO

EXCOCEAN Group is the leading China manufacturer of cast iron pipes and fittings, couplings, valves, manhole covers, gullies and grates, as well as being the leading exporter of cast iron above ground drainage systems.

卓洋集团是中国铸铁排水管及配件, 卡箍, 阀门, 井盖, 沟槽和篦子等产品的中国领先制造商。同时也是地上铸铁排水系统的主要生产商。

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# COMPANY PROFILE

EXCOCEAN Group was founded in 2012, and is located in Wuan Hebei, where there are rich high-quality iron and coal resources, developed cast industry and convenient logistics and transportation.

The company mainly deals in centrifugal cast iron pipe, pipe iron fittings, EPAL pallet box, stainless steel clamp, ductile cast iron manhole cover, grate, cast iron pan, valve and a variety of cast parts. Our product mix is complete. Based on our self-owned products, the company can produce a variety of cast products according to the customers' drawings and samples. The company has built several production bases, equipped with advanced centrifugal cast production line, DISA vertical molding production line, cast production line, and complete inspection and testing equipment. As China's only one manufacturer with all mechanical molds of EN877 pipe fittings, the company provides OEM service for European famous enterprises. Moreover, corresponding manual molds are quipped to complete customers' orders more efficiently. Since 2014, the company has begun to build a DISA vertical molding production line for manhole cover. At present, the company has owned China's most advanced DISA molding production line with a maximum diameter of 1.4 meter, which can produce all specifications and dimensions of manhole covers. Moreover, the company can produce European EPAL-certified EN pallet, and is China's only one enterprise to produce EN437-1 DIN pallet box independently.

## 公司简介

卓洋集团成立于2012年,地处河北省武安市,本地拥有丰富的优质铁矿、煤炭资源的,铸造工业发达、物流交通便利。

公司主要经营离心铸管、管件、托盘箱、不锈钢卡箍,以及球墨铸铁井盖、篦子、铸铁锅、阀门及各种工艺铸件。产品结构配套完整,在自主产品的基础上可根据客户来图来样生产各种铸造产品。我公司拥有多家生产基地,拥有先进的离心铸造生产线、迪砂垂直造型生产线、铸造生产线、齐全的检验检测设备。我公司是中国唯一拥有EN877管件全部机械模具的生产厂家,常年给欧洲著名企业提供OEM服务,另外我们配备相应的手工模具,可以更高效率的完成客户订单。并且在2014年开始新建井盖迪砂垂直造型线,目前我们拥有中国最先进的,尺寸最大的迪砂造型线,最大直径1.4米。可以承接各种规格尺寸的机制井盖。并且公司拥有欧洲EPAL认证的欧标托盘,也是国内唯一自主生产EN437-1德标托盘箱的企业。



### OUR AIM 公司宗旨

Honesty and credibility of the  
business, mutually beneficial and  
win-win with customers  
诚信经营, 互利共赢



### OUR CULTURE 公司文化

Integrity, professional, quality,  
innovation, efficiency  
诚信、专业、品质、创新、高效



### OUR PHILOSOPHY 公司理念

Conform to market demand, creating  
gold medal quality  
顺应市场需求, 创造金牌品质



Excellent and elegant  
sail the ocean

卓越俊逸 扬帆远洋





“

Through over 7 years of development, the company has become a new trading company combining centralized management and operation, with export-oriented products as main business, with self-brand as core. So far, the company has passed the certifications of CE, EN877, ASTM-A888, ISO9001, ISO14001, etc.

公司历经7年多的发展与壮大,现已成为以外向型出口产品为主导、以自主品牌为核心、集中管理和经营相结合的新型贸易公司。我司取得了欧洲CE认证, EN877认证, ASTM-A888认证, ISO9001和ISO14001等相关认证。

Our company insists on “Conform to market demand, creating gold medal quality” as concept, for the purpose of “Honesty and credibility of the business, mutually beneficial and win-win with customers”, according to “Integrity, professional, quality, innovation, efficiency” as our cultural foundation. Do our best to create maximum profits and business opportunities for customers, and accurate to meet customer’s demands, to achieve a win-win situation.

公司坚持“顺应市场需求, 创造金牌品质”为理念, 以“诚信经营, 互利共赢”为宗旨, 以“诚信、专业、品质、创新、高效”为我们的文化根基。尽我们最大的努力为客户创造最大的利润和商机, 并准确地满足客户的需求, 实现双赢。

# OUR HISTORY 发展历程

## 2012

Established in 2012, ZHUOYANG TRADING CO.,LTD is committed to providing the best quality pipeline system solutions.

2012年成立卓洋贸易有限公司,致力于提供最优质的管道系统解决方案。

In 2013, developed the European market and sold EN877 standard cast iron drainage pipes, pipe fittings, couplings and other products. Obtain EU CE certification.

2013年开发欧洲市场,销售EN877标准铸铁排水管、管件、卡箍等产品。取得欧盟CE认证。

In 2014, developed the American market and sold ASTM-A888 standard cast iron drainage pipes, pipe fittings, couplings and other products. Obtain us UPC certification.

2014年开发美洲市场,销售ASTM-A888标准铸铁排水管、管件、卡箍等产品。获得美国UPC认证。

## 2015

In 2015, EXCOCEAN Group was established and its annual sales exceeded \$1 million.

2015年发展壮大,成立卓洋集团,年销售额突破100万美金。

In 2016, develop the southeast Asian market, further expand the international market and expand the global distribution.

2016年开发东南亚市场,进一步拓展国际市场,布局全球。

In 2017, the company expanded its product line and added new product series such as ductile iron manhole covers, gully gratings and cast iron pans.

2017年公司拓宽产品线,增加球墨铸铁井盖、篦子、铸铁锅等新产品系列。

## 2018

In 2018, under the premise of maintaining the continuous growth of B2B business, the company develop online B2C business and lay out cross-border e-commerce.

2018年公司在保持B2B业务不断增长的前提下,开发线上B2C业务,布局跨境电商。

In 2019, EXCOCEAN Group build its brand effect and enter the Chinese market to build a series of domestic high-end cast iron drainage products.

2019年打造集团品牌效应并进军中国市场,打造国内高端铸铁排水产品系列。

In 2020, EXCOCEAN Group will continue to innovate and forge ahead, expand global overseas warehouse business, and improve customer service and experience.

2020年卓洋集团持续创新,开拓进取,布局全球海外仓业务,提升客户服务和体验。



# 2020



# OUR PARTNERS

## 工程案例



“

The company pays attention to the development and innovation, pursues with the customer satisfaction, takes the enterprise strength as the backing, the introduction and the innovation and the international synchronization advanced casting technology, through the unceasing consummation and the accumulation, the company has established the cooperative partnership with many large and medium-sized enterprises in the country, and successively participates in the casting product supply of many famous buildings.

公司注重开发与革新,以客户满意为追求,以企业实力为后盾,引进和创新与国际同步的先进铸造技术,历经不断的完善与积累,公司已与全国多家大中型企业建立合作伙伴关系,并相继参与多个著名建筑的铸造产品供应。

# GLOBAL MARKET

Since its establishment, the company has been focusing on cast-iron products and metal parts, and has been cooperating with the factories in the places of origin such as Shanxi, Hebei, Shandong, Tianjin, etc. In our opinions, an enterprise shall focus on products, service and profit, as well as on environment, reputation and users' experience. The company has the first-rate production equipment, perfect environmental protection facilities, standard production process, professional technical personnel and complete detection system. All of us have been satisfying various market and customer demands with our professional services. By the end of 2019, our cast-iron products have been exported to more than 20 countries and regions, such as Germany, Britain, France, Norway, Sweden, the U.S.A., Russia, etc., and the company has established long-term strategic cooperation relationship with the customers.

# GLOBAL MARKET

## 布局全球



### 布局全球

自成立以来,我们始终专注于铸铁产品和金属配件领域,合作工厂遍布山西、河北、山东和天津等主要原产地。在我们看来,企业不仅要关注产品、服务和利润,还更要关注环境、声誉和用户的体验。公司拥有一流的生产设备、完善的环保设施,规范的生产流程、专业的技术人员以及完整的检测系统。卓洋人始终以专业化的服务快速适应不同的市场和客户需求,截止到2019年,我们的铸铁产品已经出口到德国,英国,法国,挪威,瑞典,美国,俄罗斯等20多个国家和地区,并与客户建立了长期的战略合作。



# OUR CERTIFICATES

## 公司证书



### European CE Certificate

欧盟CE认证证书



### US UPC Certificate

美国UPC认证证书

### ISO 9001 Quality Management System Certificate

ISO 9001质量管理体系认证证书

### ISO 14001 Environment Management System Certificate

ISO 14001 环境管理体系认证证书





# TESTING EQUIPMENT

## 检测设备



**Microscope**

显微镜



**TH600 Brinell Hardness Tester**

TH600布氏硬度计



**Screen Liquid Multi Functional Tester**

屏显式液压万能试验机



**Columbus**

光谱分析仪



**Infrared Carbon and Sulfur Analyzer**

红外碳硫分析仪



**Cold and Hot Water Cycling Test Cabinet**

冷热水循环试验机

We own professional testing department and full testing equipment. We take advanced testing system to control processes strictly, so that the chemical composition, mechanical performance, configuration and water pressure test of products can satisfy the standard requirements. Therefore, a good product quality is ensured reliably.

我公司拥有专业的检测部门与齐全的检测设备,采用先进的产品检测系统进行严格的工序控制,使产品在化学成分、机械性能、结构组织、水压试验等各方面均达到标准要求。为出厂产品的优良品质提供了可靠的保证。

# OUR PRODUCTS

## 公司产品

The company's core products cover all kinds of cast iron drainage pipes, pipe fittings and clamp, rubber clamp, rubber adapter, rubber hose card. All kinds of nodular cast iron manhole cover, rainwater drain, cast iron pot and other iron accessories. Provide diversified piping system solutions for civil and public buildings.



**EN877  
Pipes and Fittings**

欧洲标准铸铁排水管和管件



**ASTM A888  
Pipes and Fittings**

美国标准铸铁排水管和管件



**Couplings and Adaptor**

不锈钢卡箍和适配器



**Flexible Rubber  
Couplings**

可调节橡胶卡箍

EXCOCEAN Group adopts excellent new pipeline casting products and system components, which perfectly match different service environments. To provide the best quality products and services for various projects.

卓洋集团采用卓越的新型管道铸件产品及系统构件,完美匹配不同使用环境。  
为各类工程提供最优质的产品和服务。

“

本公司核心产品涵盖各类铸铁排水管、管件及卡箍，橡胶卡箍、橡胶适配器、橡胶管卡等。各类球墨铸铁井盖、雨水篦子、铸铁锅等其它铸铁配件。为民用、公用建筑提供多样化管道系统解决方案。



**Pipe Clamp and Seismic Support**  
管卡与抗震支架



**Manhole Cover and Gully Grating**  
铸铁井盖和篦子



**Ductile Iron Grooved Fittings and Couplings**  
球墨铸铁沟槽管件和管卡



**EPAL Box Pallet**  
铁托盘箱



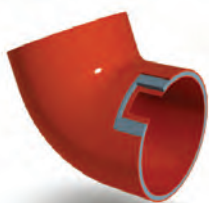


# OUR ADVANTAGES

## 产品优势

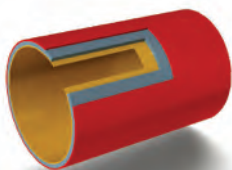
### LAYERS OF SML DKI PIPE AND FITTING

#### 环氧树脂漆工艺铸管管件分层结构图



Epoxy resin powder coating,  
approx.60-100μm  
环氧树脂漆厚度大约:60-100微米

Grey cast iron  
铸造灰铁



Internal epoxy resin coating  
with optimized properties,  
approx.120-200μm  
内壁环氧树脂漆  
厚度大约:120-200微米

High quality external epoxy  
coating,approx.80-100μm  
外壁环氧树脂漆  
厚度大约:80-100微米

Grey cast iron  
铸造灰铁

**Smooth inner surface ensure  
excellent flow of waste water**

内壁光滑, 保证排水良好流动性



**International standard  
and durable**

国际标准, 经久耐用



### Elegant appearance

产品美观大方



### Low drainage noise

低排水噪音



### Low expansion rate

低膨胀率



### High flame resistant performance

抗火性能高



### High quality epoxy paint on inner surface

内壁采用高质量环氧树脂漆



### The material of products can be reused 100%

产品材质100%可循环利用



### High corrosion resistant performance

防腐性能强

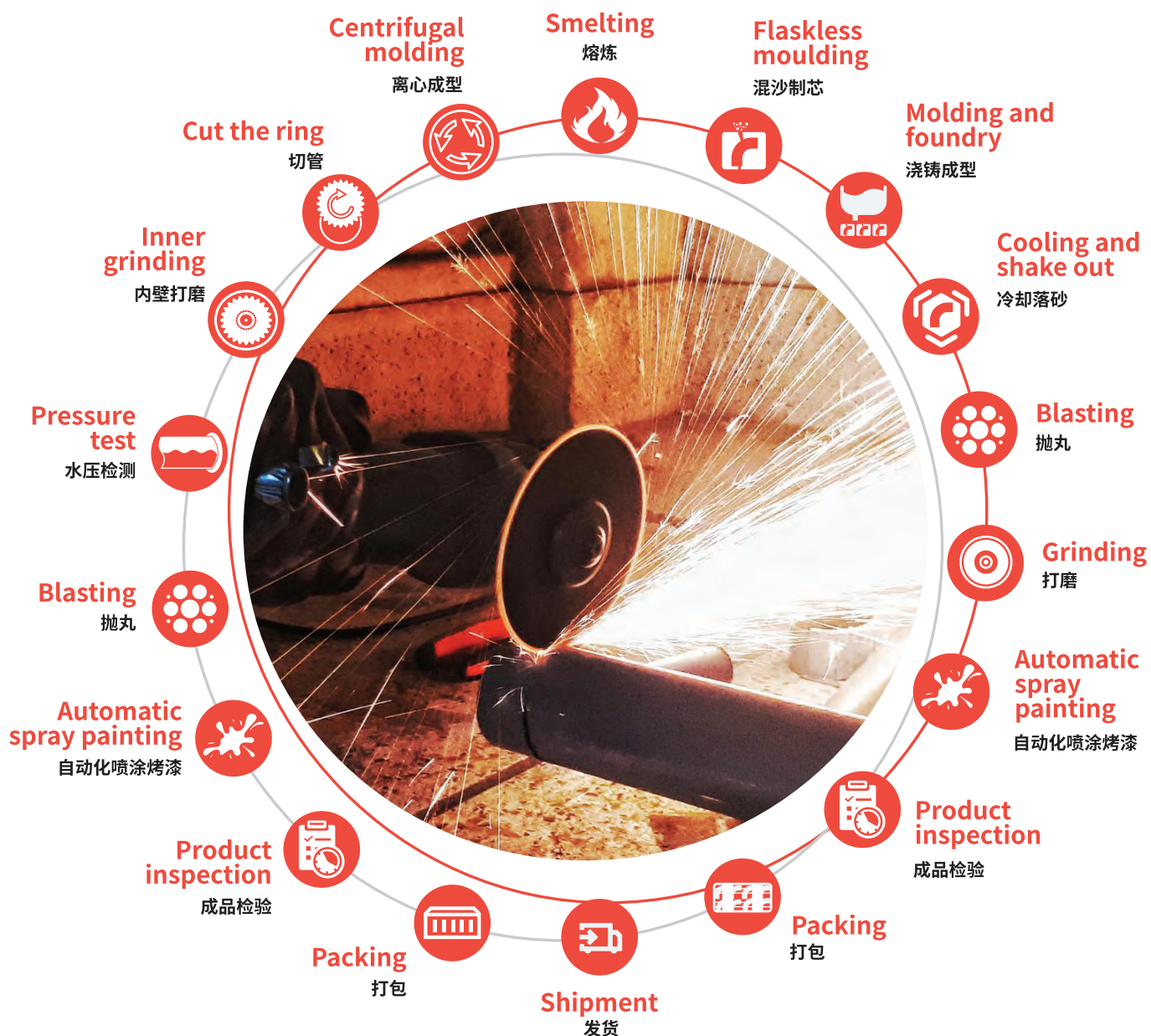


### Easy installation and simple maintenance

安装简单维修方便

# OUR PROCESSES

## 工艺流程





# INDUSTRY EQUIPMENT

## 生产设备

### Multistation automatic centrifugal casting machine

#### 多工位全自动离心铸管机组

This production line introduces Germany Düker company A200 high efficiency automatic centrifugal cast pipe production line, can produce 100 cast iron pipes per hour. The automatic pouring electric furnace in this unit adopts automatic control, which can display casting weight. In conjunction with the external hot air cupola with melting rate of 8 tons/h, the molten iron melting temperature is maintained at 1500°C for automatic quantitative casting of plug rod, so as to remove slag and purify, and cast high-quality white tube. At the same time, the automatic centrifugal casting machine, greatly improving the centrifugal rotational speed in the process of casting, man-machine dialogue, 9 station automatic testing cycle, many times coating process, to further increase the density of the casting pipe wall and surface finish, ensure the casting pipe weight, thickness, fully meet the standard requirements, further improved the overall quality of the pipes.

该条生产线引进德国德毓克公司A200型高效全自动离心铸管生产线,每小时可生产100根铸铁管。该机组中的自动浇注电炉采用自动化控制,可以显示浇铸重量,配合熔化率8吨/每小时的外热风冲天炉,将铁水熔化温度保持在1500°C下进行塞杆自动定量浇铸,从而去渣提纯,铸出质量上乘的白管。同时,该全自动离心铸管机大大提高了浇铸过程中的离心转速,采用人机对话,9工位自动检测循环,多遍喷涂等工艺,进一步增加了铸管管壁的密度和表面的光洁度,确保铸管重量、壁厚一致,完全达到标准要求,使铸管的整体质量进一步得到提升。





## Automatic molding vertical line for fittings

### 管件自动造型垂直线

The automatic molding vertical line for pipe fittings: It takes an electrical cupola to ensure the pouring temperature and equips with a Germany Bruker Q6 direct-reading spectrometer to analyze the composition and control material strictly. This production stream takes a vertical parting pressing process without any box. It integrates advanced core-hanging process with constant speed pouring process together to ensure to produce high quality pipe fittings. Products made by this process have characteristics of consistency in dimension and weight, smooth surface and even wall thickness. Meanwhile, we are the first company in China to use an automatic molding vertical production line to make pipe fittings.

管件自动造型垂直线:采用电炉确保浇注温度,配合德国Bruker Q6直读光谱仪,分析成份,严格控制材质;该流水线采用垂直分型无箱射压工艺,结合挂芯工艺,等速浇注等先进生产工艺,确保生产出优质管件,本工艺生产的管件具有尺寸、重量一致,表面光滑,壁厚均匀等特点;同时也是国内第一家采用自动造型垂直线生产管件产品的公司。



## Automatic coating line for pipes

### 自动铸管涂装流水线



Our painting stream can control the temperature automatically after setting. It has the capability to finish production processes continuously from preheating, painting/static electrical painting, high temperature consolidation, water pressure testing and marking. Then the product is made and flow into the process of packing. The casting pipes and pipe fittings made by this stream have good characteristics, such as even painting thickness, smooth surface, high rigidity and good adhesiveness.

我公司涂装流水线采用温度设定自动控制,可连续完成预热、喷漆/静电喷涂、高温固化、水压试验、打唛头等生产工序,产品下线直接打包入库。生产的成品铸管及管件具有涂层厚度均匀、表面光滑、硬度高、附着力好等优良特点。



## Automatic coating line for fittings

### 自动管件涂装流水线



# CAST IRON PIPES

## 铸铁排水管

The straight centrifugal casting grey iron pipe made by our company is connected by a flexible method. It is mainly used as drainage pipes. It passed the testing of Hebei Product Quality Supervision and Testing Station and provincial appraisal. Therefore, the blank in Hebei province is filled in. The products can reach the standards completely, such as ISO6594, DIN19522/EN877, GBI2772, ASTM-A888, CISPI301 and KSD4307. It has the following good points, e.g. flat and straight, even wall thickness, high density, smooth inner and outside walls, without casting defects, simple installation, long service life, environment protective, flame retardant and no noise, etc.

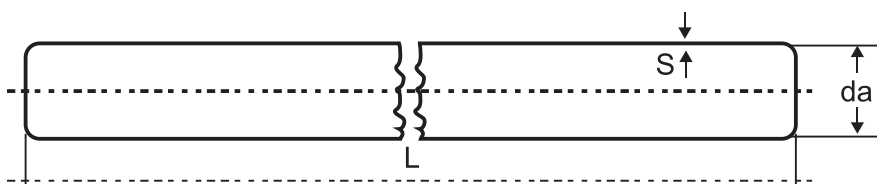
“

本公司生产的离心铸造灰口铸铁直管,采用柔性连接,主要用于下排水管道,已通过河北省产品质量监督检验所检测和省级鉴定,填补了省内空白。产品可完全达到ISO6594、DIN19522/EN877、GBI2772、ASTM-A888、CISPI301、KSD4307等标准,具有平直、壁厚均匀、组织致密强度高、内外壁光滑、无铸造缺陷、安装简单、维修方便、使用寿命长、环保、防火、无噪声等优点。



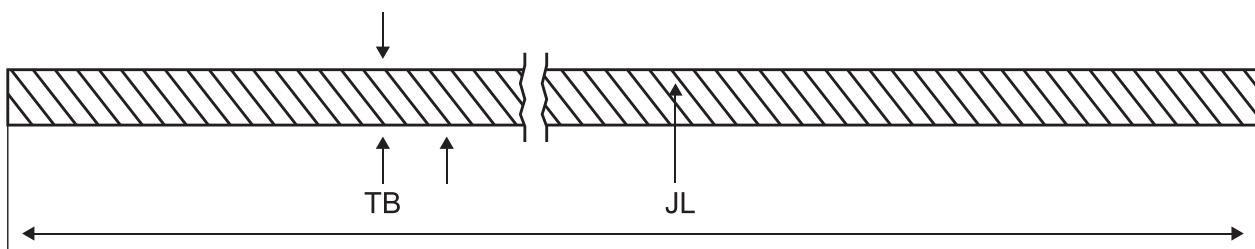
**EPOXY CAST  
IRON PIPE**

环氧铸铁管



### ISO 6594&DIN 19522/EN 877

Nominal size(DN) 公称直径 (DN)	Outside diameter 外径		Wall thickness 壁厚		Length (mm) 长度 (mm)
	Nominal dimension 公称尺寸	Tolerance 公差	Nominal dimension 公称尺寸	Min 最小	
40	48	+2 -1	3.0	2.5	3000±20
50	58		3.5	3.0	
70	78		3.5	3.0	
75	83		3.5	3.0	
100	110		3.5	3.0	
125	135	+2 -2	4.0	3.5	
150	160		4.0	3.5	
200	210	+2.5 -2.5	5.0	4.0	
250	274		5.0	4.5	
300	325		6.0	5.0	



## ASTM A888&CISPI 301

Size 规格 (in)	Inner diameter 内径 (mm)	Outside diameter 外径 (mm)	Wall thickness 壁厚 (mm)		Length (mm) 长度 (mm)
			Nominal dimension 尺寸	Min 最小	
1"	35.1±2.29	48.26±1.52	4.06	3.3	3048±13
2"	40.8±2.29	59.69±2.29	4.06	3.3	3048±13
3"	75.2±2.29	85.09±2.29	4.06	3.81	3048±13
4"	100.08±2.29	111.25 <sup>+2.29</sup> <sub>-1.27</sub>	4.83	3.81	3048±13
5"	125.4±2.29	134.62 <sup>+2.29</sup> <sub>-1.27</sub>	4.83	3.81	3048±13
6"	150.88±2.29	160.02 <sup>+2.29</sup> <sub>-1.27</sub>	4.83	3.81	3048±13
8"	201.68±3.3	212.85 <sup>+3.3</sup> <sub>-2.29</sub>	5.84	4.83	3048±13
10"	254±3.3	268.22±2.29	7.11	5.59	3048±13

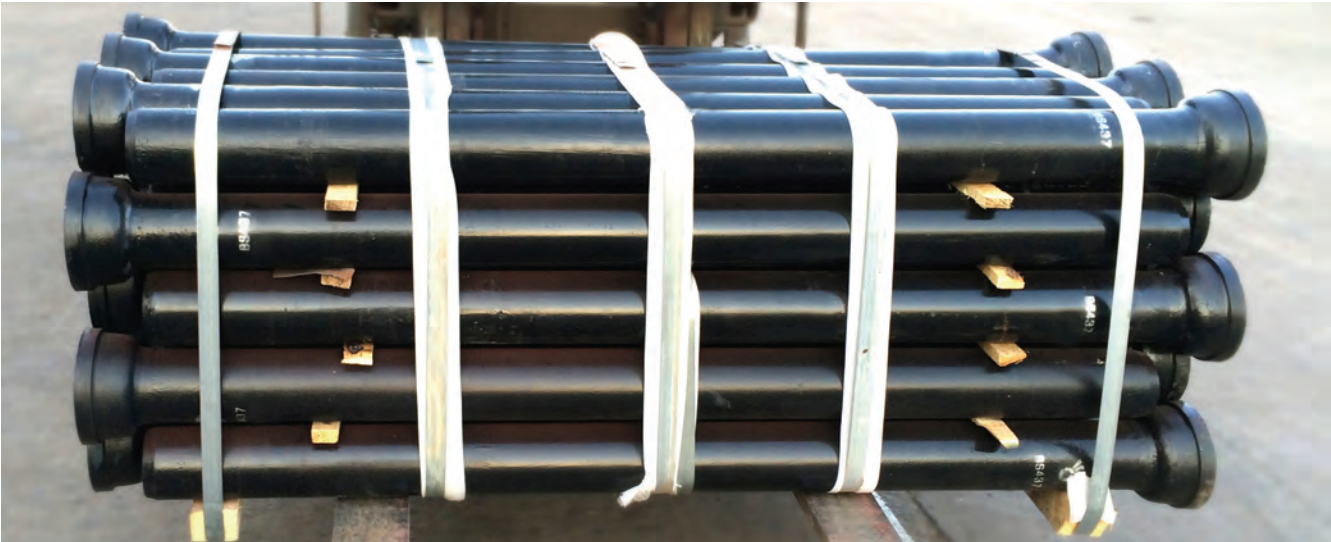
## NO-HUB CAST IRON SOIL PIPE 离心铸铁管



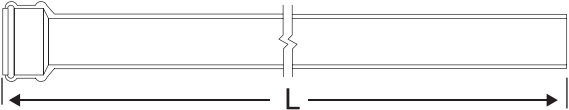


# BEARING CAST IRON PIPES

## 承插铸铁管

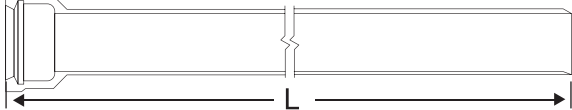


BS416



Size (in) 规格 (in)	Length (mm) 长度 (mm)
2"	1830
3"	1830
4"	1830
5"	1830
6"	1830
8"	1830

BS437



Size (in) 规格 (in)	Length (mm) 长度 (mm)
2"	1830
3"	1830
4"	1830
5"	1830
6"	1830
8"	1830

BS4622



Size (in) 规格 (in)	Length (mm) 长度 (mm)
2"	4000
3"	4000
4"	4000
5"	4000
6"	4000
8"	4000





# ELECTRIC PIPE CUTTER

## 电动切管机

This Electric Pipe Cutter is used to cut steel, copper, cast iron, stainless steel, plastic, heat shrinkable tube, etc.

这款电动切管机适用于切割钢、铜、铸铁、不锈钢、塑料、热缩管等各种管道。



### ZD400

Cutting Diameter:75-400mm

切割范围:75-400mm

Power(w):1750W

功率:1750W

Cutting Thickness(steel):10mm

切割厚度:钢10mm

Cutting Thickness(plastic):35mm

切割厚度:塑料35mm

Speed(r/min):2900r/min

转速:2900r/min



### ZD220

Cutting Diameter:15-220mm

切割范围:15-220mm

Power(w):1200W

功率:1200W

Cutting Thickness(steel):8mm

切割厚度:钢8mm

Cutting Thickness(plastic):12mm

切割厚度:塑料12mm

Speed(r/min):3200r/min

转速:3200r/min



# EPAL BOX PALLET

## 铁托盘箱

The pallet made in our company is welded by steel grid and excellent shape steel. The dimensions are satisfied with the requirement and weld points are stable and elegant, fully meeting the demand of DIN15155 standard. It has properties such as reasonable configuration, high strength, broad application and convenient use. We are the first company certified by EPAL.

本公司生产的铁托盘采用钢格网与优质型材组合焊接, 尺寸合格, 焊点牢固美观, 完全符合DIN15155标准, 具有结构合理、强度高、应用广泛、使用方便的特点, 是中国第一家通过欧洲托盘协会EPAL质量检测认证的生产厂家。



# EN 877 FITTINGS

## EN 877标准铸铁管件

All SML pipes and fittings comply with BS EN 877, being manufactured under strict factory-controlled conditions to meet the highest performance standards. They are durable, recyclable, quick and easy to install and require low maintenance.

所有SML铸管和管件符合BS EN 877标准,在工厂里经过严格的品控下生产,力求达到最高的性能标准。产品经久耐用,可循环使用,安装快捷方便,维修费用低。



**Bend 15°**  
15°弯头



**Bend 30°**  
30°弯头



**Bend 45°**  
45°弯头



**Bend 68°**  
68°弯头



**Bend 88°**  
88°弯头



**Double Bend 88°**  
88°小半径弯头



**Large Radius Bend 88°**  
88°大半径弯头



**Bend 45° With 250 mm Spigot**  
45°长弯头



**Bend 88° With 250 mm Spigot**  
88°长弯头



**Bend 135° For Ventilation**  
135°弯头



**45°Bend With Access Door**  
45°带清洁口弯头



**88°Bend With Access Door**  
88°带清洁口弯头



**Single Branch 45°**  
45°三通



**Single Branch 68°**  
68°三通



**Single Branch 88°**  
88°三通



**TY Branch**  
TY三通



**Parallel Branch**  
平行三通



**Branch 88° With Long Spigot**  
长88°三通



**45°Single Branch With Access Door**  
45°带清洁口三通

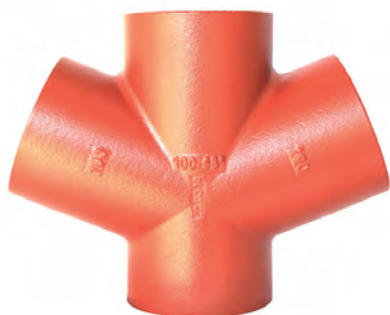


**88°Single Branch With Access Door**  
88°带清洁口弯头

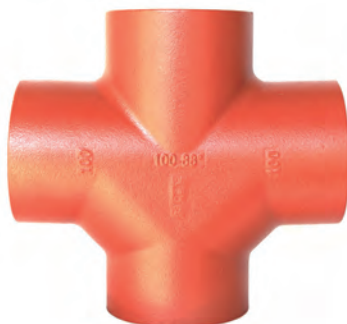


**Double Branch 45°**  
45°四通





**Double Branch 68°**  
68°四通



**Double Branch 88°**  
88°四通



**Double Branch 88°**  
88°四通



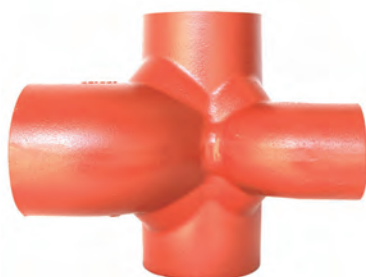
**Corner Branch 88°**  
入口角88°四通



**Corner Branch 88° With  
Long Spigot**  
88°大半径弯头



**Offset Pipe**  
过渡管



**Combination Branch 90°**  
组合支管



**Reducer**  
变径管



**Inspection Pipe With  
Round Opening**  
圆口清洁管



**Inspection Pipe With  
Rectangular Opening**  
方口清洁管



**Inspection Pipe With  
Manual Opening**  
手动清洁管



**Downpipe Support (No Rubber)**  
法兰直管



**Bearing Ring For Downpipe Support(With Rubber)**  
法兰支架



**Plug**  
堵头



**Expansion Plug**  
膨胀堵头



**Siphon Horizontal/Vertical**  
横立式气封



**Siphon Vertical**  
立式气封



**Siphonic**  
虹吸式气封



**WC Pipe**  
WC直管



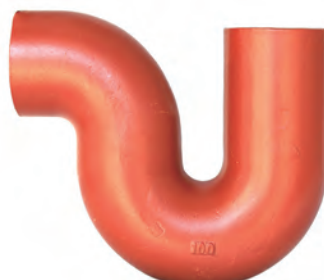
**WC Bend**  
WC弯头



**Bend 88° With High Heel**  
平管弯头



**Bend 88° With Vent**  
立管弯头



**Plain Trap**  
P型存水弯



**Flange adapter**  
法兰盘

# ASTM A888 FITTINGS

## ASTM A888标准铸铁管件



**1/16 Bend**  
22.5°弯头



**1/8 Bend**  
45°弯头



**1/6 Bend**  
60°弯头



**1/5 Bend**  
72°弯头



**1/4 Bend**  
90°弯头



**Double 1/4 Bend**  
双45°弯头



**Short Sweep Bend**  
短颈弯头



**Long Sweep Bend**  
长颈弯头



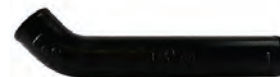
**1/4 Bend with Side Opening**  
立管弯头



**1/4 Bend with Heel Opening**  
平管弯头



**1/4 Bend with Extended Low Heel Inlet**  
长平管弯头



**Long 1/8 Bend**  
长45°弯头



**Long 1/4 Bend**  
长90°弯头



**WYE**  
Y型三通



**Sanitary Tee**  
T型三通



**Combination**  
TY型三通





**Double WYE**  
Y型四通



**Sanitary Cross**  
T型四通



**Double Combination**  
TY型四通



**Blind Plug**  
盲堵



**Short Reducer**  
短异径接头



**Increaser Reducer**  
长异径接头



**P-Trap**  
P型存水弯



**Long P-Trap**  
长尾P型存水弯



**Deep Seal P-Trap**  
深水封P型存水弯



**Running Trap with Single Vent**  
立管存水弯



**Siphon Vertical**  
双立管存水弯



**Vent Closet Tee with Top Vent**  
立管通气三通



**Upright Wye**  
立管Y三通



**Test Tee Less Plug**  
检查口



**Two Way Cleanout**  
双向清洁口



**Closet Flange**  
法兰盘

# COUPLING AND ADAPTOR

## 卡箍和适配器



Type A Coupling  
A型卡箍



Type B+ Coupling  
B+型卡箍



Type C Coupling  
C型卡箍



Type CHA Coupling  
CHA型卡箍



Type B Coupling  
B型卡箍



Type E Coupling  
E型卡箍



Type B Enhanced  
Clamp  
凸面加强卡箍



Type C Enhanced  
Clamp  
平面加强卡箍



Universal Enhanced  
Clamp  
通用加强卡箍

# FLEXIBLE RUBBER COUPLING

## 橡胶卡箍



**Konfix Multi Coupling**  
橡胶适配器



**Multiquick Coupling**  
橡胶适配器



**EK Fix Coupling**  
橡胶适配器



**Flexible Rubber Elbow 90°**  
橡胶90°弯头



**Flexible Rubber Reducing**  
橡胶变径



**Flexible Rubber Connector**  
橡胶直接



**Flexible Rubber Pipe Cap**  
橡胶堵头



**Flexible Rubber Tee**  
橡胶三通



**Flexible Rubber Tee Tap Saddle**  
橡胶开孔鞍形三通



# PIPE CLAMP AND SEISMIC SUPPORT

## 管卡与抗震支架



**Rubber Clamp**  
橡胶管卡



**Rubber Clamp**  
橡胶管卡



**Heavy Clamp with Rubber**  
重型橡胶管卡



**Heavy Clamp with Rubber**  
重型橡胶管卡



**Type U Fix Clamp**  
U型管卡



**Light Clamp**  
灯笼管卡



**Box Iron Type C**  
C型槽钢



**Universal Base**  
万向底座



**Seismic Support System**  
抗震支架系统

# DUCTILE IRON GROOVED FITTINGS AND COUPLINGS

## 球墨铸铁沟槽管件和管卡



**11.25° Elbow**  
11.25°弯头



**22.5° Elbow**  
22.5°弯头



**90° Elbow**  
90°弯头



**Tee**  
正三通



**Grooved Reducing Tee**  
沟槽式异径三通



**Corss**  
正四通



**Grooved Concentric Reducer**  
沟槽同心异径管



**Flange Adaptor**  
转换法兰



**Cap**  
盲片



**Flexible Coupling**  
挠性沟槽接头



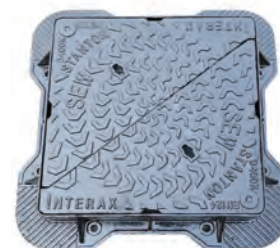
**Mechanical Tee Grooved**  
沟槽式机械三通



**Mechanical Cross Grooved**  
沟槽式机械四通

# MANHOLE COVER

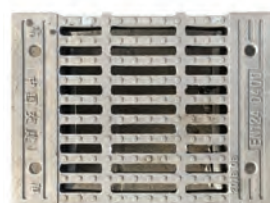
## 铸铁井盖





# GULLY GRATING

## 铸铁篦子



Cast Iron Drainage Pipe Systems  
for Building Drainage  
建筑排水用铸铁排水管道系统



**EXCOCEAN 卓洋**  
Drainage Systems

EXCOCEAN Group  
卓洋集团

ZHUOYANG TRADING CO.,LTD  
卓洋贸易有限公司

WUAN KELI FIGURED STEEL CO.,LTD  
武安市科力型钢有限公司

Add: WuAn City HeBei Province ,China

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Website:www.excocean.com

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