

离心球墨铸铁管

DUCTILE IRON PIPES



新兴铸管股份有限公司为铸管、钢铁、机械等多业并举，跨地区、跨行业、集科工贸于一体的上市公司，全国520家重点企业之一，公司于1997年在深交所上市，总股本62150万股。1997年以来，资产总额、销售收入、利税平均年递增分别为：21.32%、31.13%、24.28%。

目前已形成新兴铸管、新兴管件、新兴钢铁、新兴复合管、新兴格板等系列产品。公司连续12年创造铸管产量、技术经济指标、出口创汇、市场占有率等多项中国企业新纪录，连续8年入选“中国最具发展潜力的上市公司50强”等荣誉称号。

整体通过了GB/T28001职业健康安全管理体系、ISO14001环境管理体系和ISO9001质量管理体系认证。公司的离心球墨铸铁管通过了法国BV、韩国KS等质量认证。其“新兴”商标为中国驰名商标。

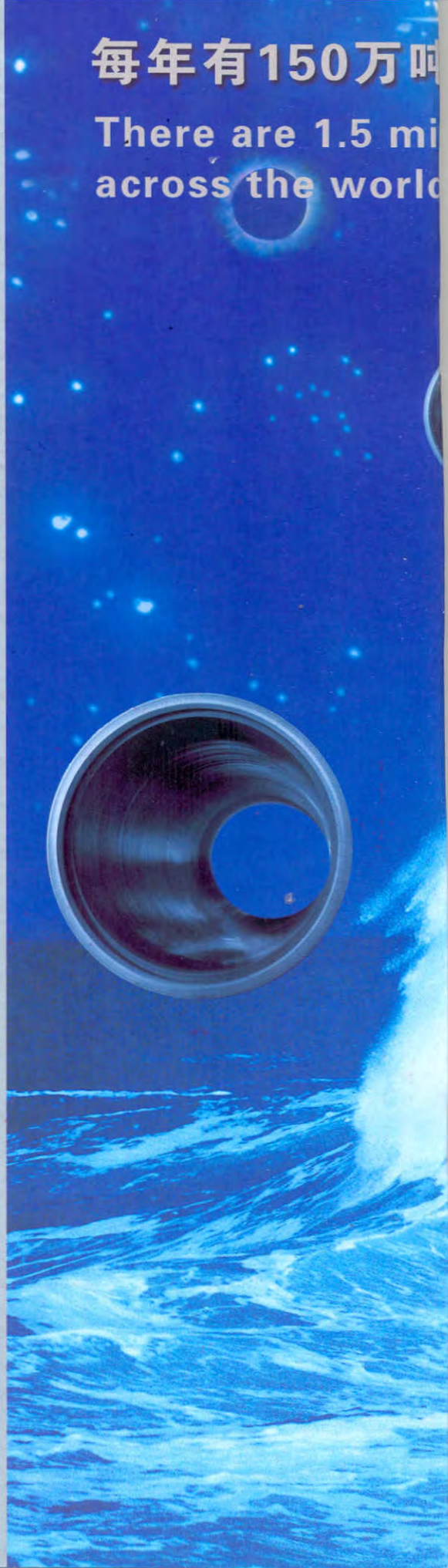
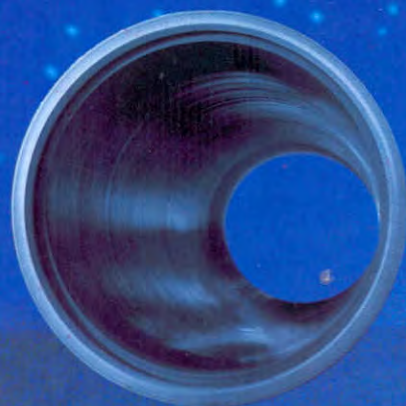
Xinxing Ductile Iron Pipes Co., Ltd. is a transregional and multi-industry listed company which gathers scientific and technological research, manufacture and trade together. The main businesses of the company include pipe making, iron and steel making and machinery making. It is one of 520 state key enterprises. In 1997, the company went into market at Shenzhen Stock Exchanges with total capital of 621.5 million shares. Since its establishment in 1997, the average annual growth rates of the total amount of assets, sales revenue and profit & tax are 21.32%, 31.13% and 24.28% respectively.

Till now, the company has developed a series of products including Xinxing Pipes, Xinxing Fittings, Xinxing Steel Products, Xinxing Composite Pipes, and Xinxing Gratings. The company has been setting up new Chinese enterprise's records for the output of D.I. Pipes, technical and economic indexes, foreign exchange earnings as well as market share etc. for ten years, and won the reputation of "Chinese Top 50 Leading Listed Companies" for eight years.

The company has passed certifications of GB/T28001 occupational safety and health management system, ISO14001 environmental protection system and ISO9001 quality control system. The company also passed product quality certifications like French BV, Korean KS etc. for its products. The trademark "XINXING" is famous in China.

每年有150万吨

There are 1.5 mi
across the world



的新兴铸管铺设于世界各地

ion tons of Xinxing pipes laid
each year.



- 产品执行 ISO2531 /ISO7186/EN545/EN598/GB/T13295标准。
- ISO9001质量管理体系通过英国劳氏认证。
- 产品通过法国船级社 B.V产品认证 (ISO2531/ISO7186/EN545/EN598/ISO4179/ISO8179-1/ISO8179-2) 。
- 整体通过 ISO14001环境管理体系认证。
- 整体通过 GB/T28001职业健康安全体系认证。
- 产品通过韩国KS认证。
- 中国驰名商标
- The products are manufactured according to ISO2531/ISO7186/ EN545/EN598/GB/T13295.
- The quality management system has passed Lloyd's ISO9001:2000 certification.
- Passed Product Conformity Accreditation(ISO2531/ISO7186/ EN545/EN598 ISO4179/ TSO8179-1/ ISO8179-2) from Bureau Veritas of France.
- The company has passed ISO14001 environmental protection system certification.
- The company has passed GB/T28001 occupational health and safety management system certification.
- Certificate of Conformity of Product Quality approved by korea.
- The famous brand in China.



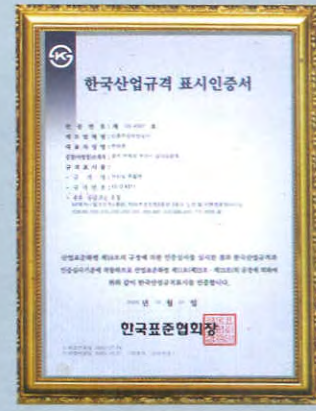
通过了OHSMS28001职业安全健康管理体系认证
Passed OHSMS28001 Occupational Safety and Health Management System Certification



被评为冶金部第一家“清洁工厂”，“全国环境保护先进单位”、通过ISO14001环保认证。
The company won the honor of "Clean Factory" awarded by The Metallurgical Department, and won the honor of "the national-level advanced environmental protection enterprise", and passed the environmental certification ISO14001.

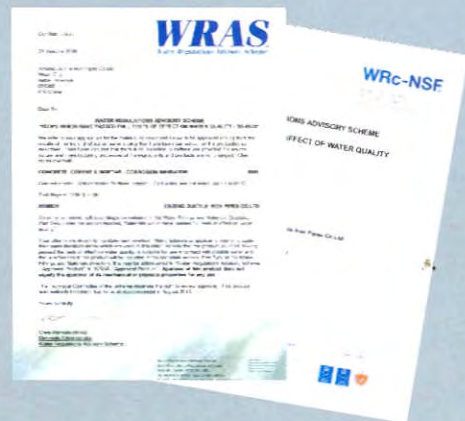


通过了法国船级社BV质量体系认证
Passed BV Quality System Certification of French Ship' classification Society



通过了劳氏ISO9001:2000质量认证
ISO9001:2000 Certificate from Lollyds

通过了韩国产品质量认证
Certificate of Conformity of Product Quality approved by Korea



阿联酋阿扎比水电部资格
通过证书
Certificate of Prequalification issued
by ADWEA of United Arab Emirates

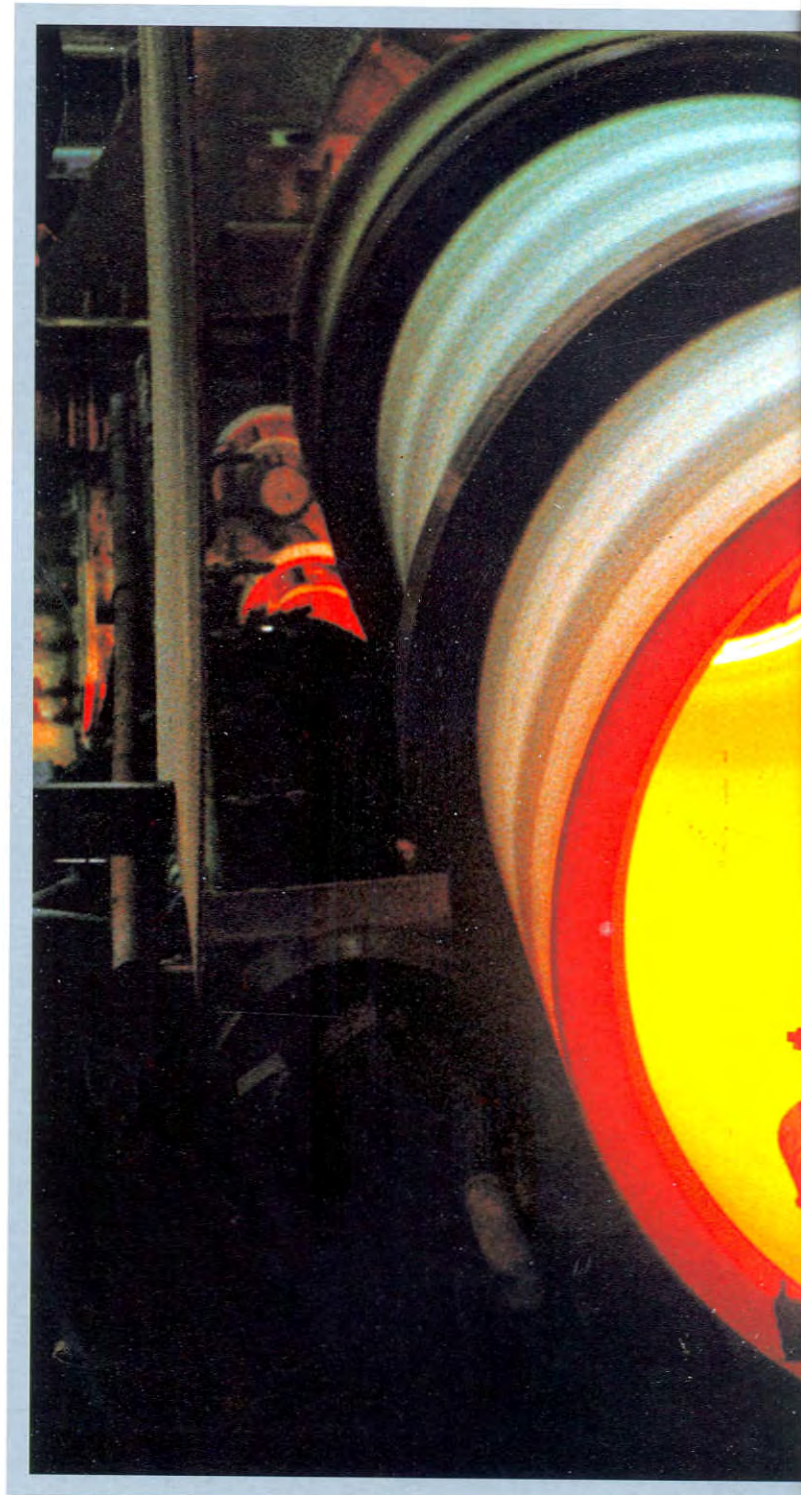
WRAS英国饮用水安全认证
Drinking Water Safety Certification
Issued by British WRAS

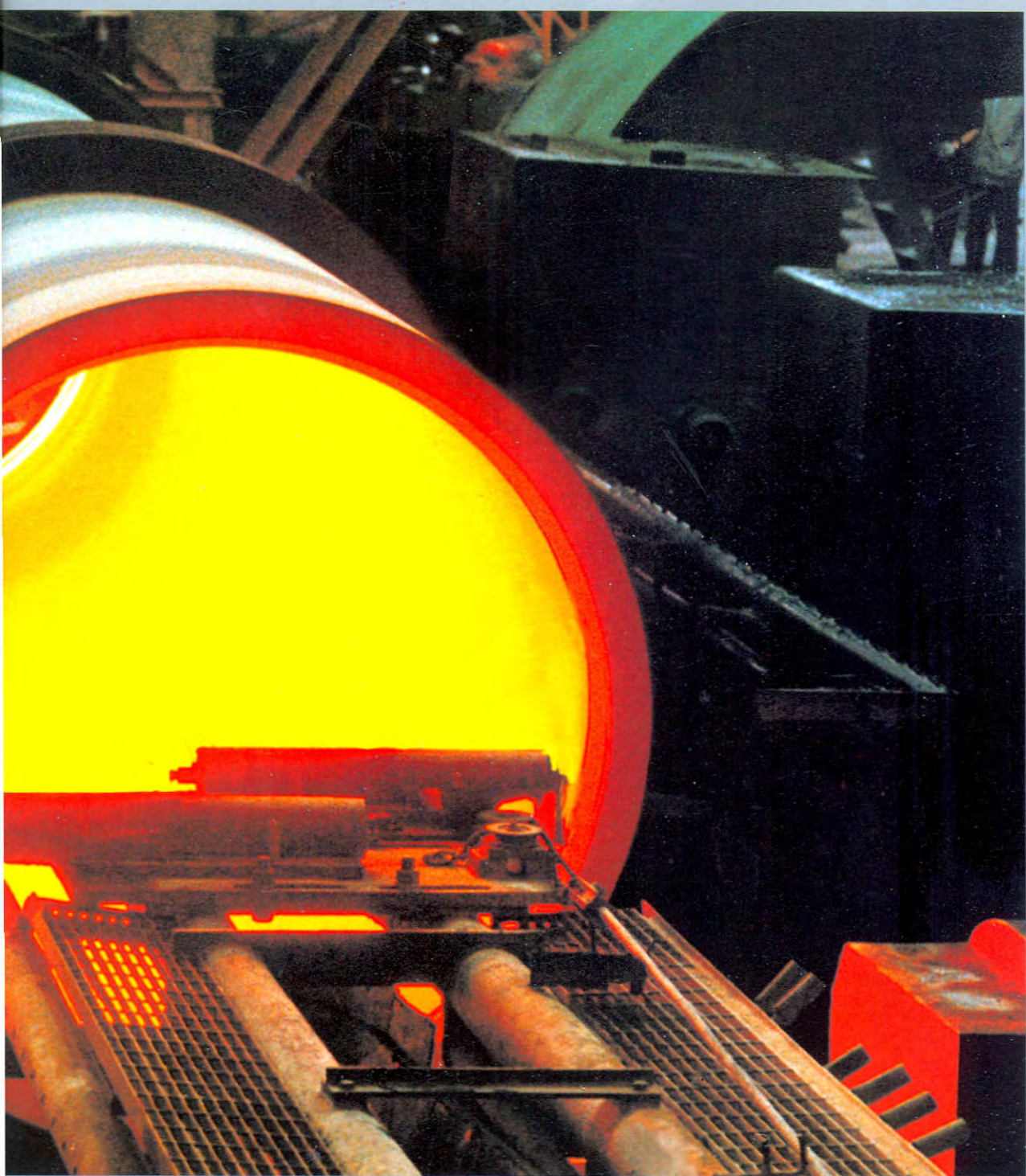
高质量、高水平、高速度地发展中华民族的铸管事业。

To develop the cause of casting pipes of China with high quality, high level and high speed.

自行开发研制的世界首创的DN1100-3000X8150mm离心铸管机正在生产。

DN1100-3000X8150 mm pipes centrifugal casting machine, which is the world initiative developed by the company itself, is in production.





离心球墨铸铁管具有铁的本质，钢的性能，高强度、高延伸、抗腐蚀。球墨铸铁管是当今世界安全可靠用于供水输气的最佳选择。目前公司拥有七个铸管生产企业，年生产能力达到150万吨，综合技术实力和生产规模为中国第一、世界领先。

Ductile iron pipes possess the nature of iron and the performance of steel and have characteristics of high strength, high elongation and corrosion resistance, which is the best choice in today's world for conveying water and gas safely and reliably. At present, the company has seven pipes production enterprises, and the annual production capacity reaches 1.5 million tons, the comprehensive technological strength and production scale rank the first place in China and are leading in the world.



球铁管生产线 D.I pipes production line

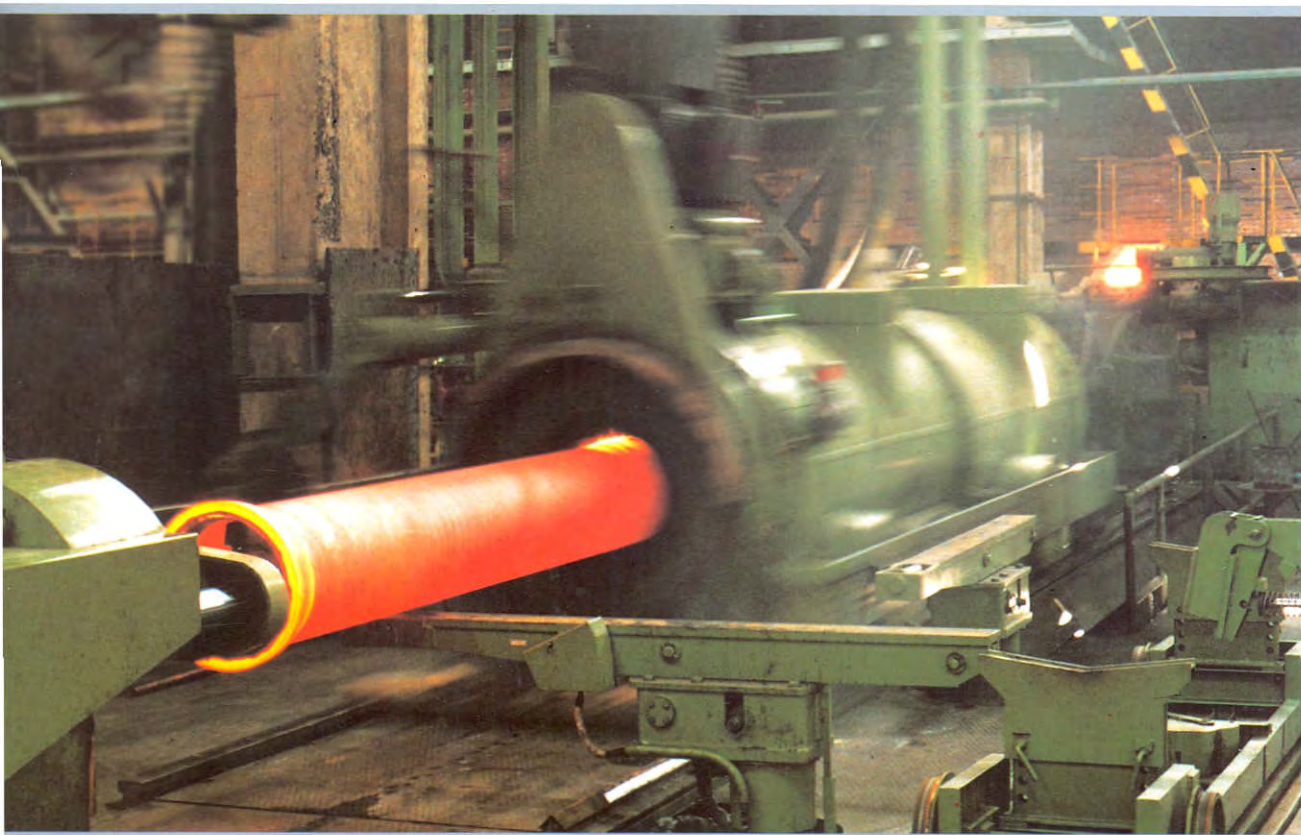


热模法离心机正在生产 (DN1100-3000mm)

Centrifugal casting machine with hot mould method is in production (DN1100-3000mm)



铸管生产区 Pipes production workshop



水冷金属型离心铸管机正在生产 (DN80-1400mm)
Pipe Centrifugal Casting Machine with Water-cooled Metal Mould is in production(DN80-1400mm)



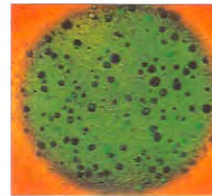


离心球墨铸铁中石墨呈球状,对削弱基体和造成应力集中的影响很小,因此具有良好的韧性。而灰铸铁中石墨呈片状,对基体有“割裂”作用,因此韧性很差。

离心球墨铸铁的力学性能明显优于灰铸铁而接近于钢,具有铁的本质,钢的性能。

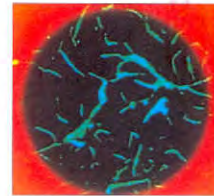
In ductile iron, the graphite exists in the form of spheroidal shape, which has little influence on weakening the matrix and resulting in centralizing strain, so ductile iron possesses good flexible property. While, in grey iron, the graphite is present in flake form, which has the effect of cutting the iron matrix and making it become brittle and easy to crack.

The mechanical properties of ductile iron are markedly superior to those of grey iron and approaching the properties of steel. Ductile iron possesses the nature of iron and properties of steel.



球墨铸铁金相

Ductile iron metallography



灰铸铁金相

Grey iron metallography

光谱分析 Spectrum analysis

金相检验 Metallographic examination

小管退火 Annealing of small size pipes

大管退火 Annealing of large size pipes

双工位水压试验机 2-position hydrostatic testing machine



优良的性能

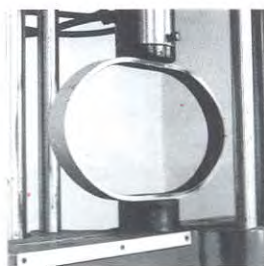
Remarkable mechanical properties

	离心球墨铸铁管 Ductile Iron Pipe	普通灰铁管 Grey Cast Iron Pipe	钢管 Steel Pipe
抗拉强度(N/mm ²) Tensile strength(N/mm ²)	≥ 420 Min.420	150-260	≥ 400 Min.400
延伸率(%) Elongation(%)	DN80-1000mm ≥ 10 DN1200-2600mm ≥ 7	忽略 Negligible	≥ 18 Min.18
弹性模量(N/mm ²) Module of Elasticity(N/mm ²)	约17X10 ⁴ Approx.17X10 ⁴	约11X10 ⁴ Approx.11X10 ⁴	约16X10 ⁴ Approx.16X10 ⁴
硬度(HB) Hardness(HB)	≤ 230 Max.230	≤ 230 Max.230	约140 Approx.140

据有关地震研究资料表明,离心球墨铸铁管在地震中的破损率为灰铁管的1/4,为其它材质管线的1/30。

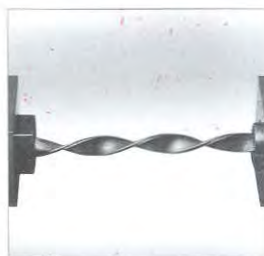
Document relevant to earthquakes shows that the damage rate per kilometer for ductile iron pipe mains is one quarter of that for gray iron and one thirtieth of some other materials of pipes.

管材 Pipe material	地震中管线破损率% Damage rate per km of main pipeline in earthquake
离心球墨铸铁管 Ductile iron	0.04
灰口铁铸管 Grey iron	0.17
其它材质管 Other materials	0.17-1.24



压环试验 Ring test

公称直径DN Nominal Diameter mm	K9级水压试验压力MPa Hydro Test Pressure for K9 pipe ,Mpa
80-300	6.0
350-600	5.0
700-1000	4.0
1100-2000	2.7
2200-2600	2.0



扭曲试验 Twist test



大管水压试验 Hydro-test of large size pipes



小管水压检验 Hydro-test of small size pipes

气密试验:

用于燃气的球墨铸铁管逐支进行气密试验,试压压力为0.6Mpa.

Air tightness test:ductile iron pipe to be used for gas conveyance will be subject to air tightness test one by one, and the testing pressure is 0.6MPa.