

核能及重型装备业务介绍

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伊莱特——为人类锻造更加安全、绿色与高效的未来工业。

伊莱特致力于向各类先进装备与高价值资产提供关键可靠部件，我们在锻造行业拥有半个世纪的坚定承诺，以及超过30年的国际市场服务经验。

我们在中国和西班牙的10个生产基地和2500余名员工，服务于清洁能源、化石能源、海洋工程、隧道掘进、水泥制造、金属矿山等不同市场的客户。

伊莱特高度聚焦于锻造行业，主要产品包括盘类、环类、筒体锻件，锻棒与锻轴，耐磨介质等，涵盖了从0.3公斤到350吨的各类大中小型锻件。我们能提供从原材料定制、锻造、热处理、高精度机加工、检测、复杂运输的整套解决方案。

我们拥有全球少数公司才具备的极限制造能力，可提供最大重量350吨的自由锻件，最大直径22米的整体无缝轧环，最大高度5米的锻轧式筒节，以及最大长度25米的径向锻棒。伊莱特在2022年制造出了直径15.7米，周长49.2米的整体无缝锻环，创造了吉尼斯世界纪录。

这些加工能力帮助我们推出一系列创新性产品，并将其成功应用于四代核电、日产万吨水泥回转窑、掘进直径16米盾构机、25MW 漂浮式海上风机等超级装备中。

愿景：为人类锻造更加安全、绿色与高效的未来工业。

使命：成为全球高端装备锻件核心部件制造商。

价值观：诚实、谦逊、坚韧、拼搏。

Iraeta - Forge a safer, greener and more efficient future for mankind.

Iraeta is committed to supplying mission-critical, high-reliability components for advanced equipment and high-value assets. We have half a century of dedication to the forging industry and over 30 years of service offering experience in the global market.

We serve clients across clean energy, fossil fuels, marine engineering, tunnel boring, cement production, and metal mining sectors through our 10 production bases in China and Spain, supported by a workforce of over 2,500.

Specializing exclusively in forging, Iraeta manufactures disc, ring, and shell forgings, forged bars & shafts, as well as wear-resistant grinding media—covering small, medium, and large forgings ranging from 0.3 kg to 350 tons. We deliver end-to-end solutions, from custom material preparation and forging to heat treatment, high-precision machining, testing, and complex logistics.

With extreme manufacturing capabilities that only a handful of global firms possess, we can provide open-die forgings with a maximum weight of 350 tons, seamless rolled rings up to 22 m in diameter (monolithic construction), rolled cylindrical shells up to 5 m in height, and radially forged bars up to 25 m in length. In 2022, Iraeta set a Guinness World Record by producing the largest seamless forged ring ever made: 15.7 m in diameter (49.2 m circumference).

These processing capabilities enable us to launch a series of innovative products, which have been successfully applied to super equipment such as the fourth-generation nuclear power plant, cement rotary kilns with a daily output of 10,000 tons, shield machines with a tunneling diameter of 16 m, and 25 MW floating offshore wind turbines.

Vision: Forge a safer, greener and more efficient future for mankind.

Mission: Become the core manufacturer of equipment forgings in the world.

Values: Honesty, humility, tenacity, and diligence.



Nuclear power component

核电部件

Support Ring

- Diameter 15,673 mm
- Weight 150 t
- Material F316H
- Research and develop seamless construction technology in cooperation with Institute of Metals, Chinese Academy of Science
- Near-net-shape radial-axial rolling technology

支承环

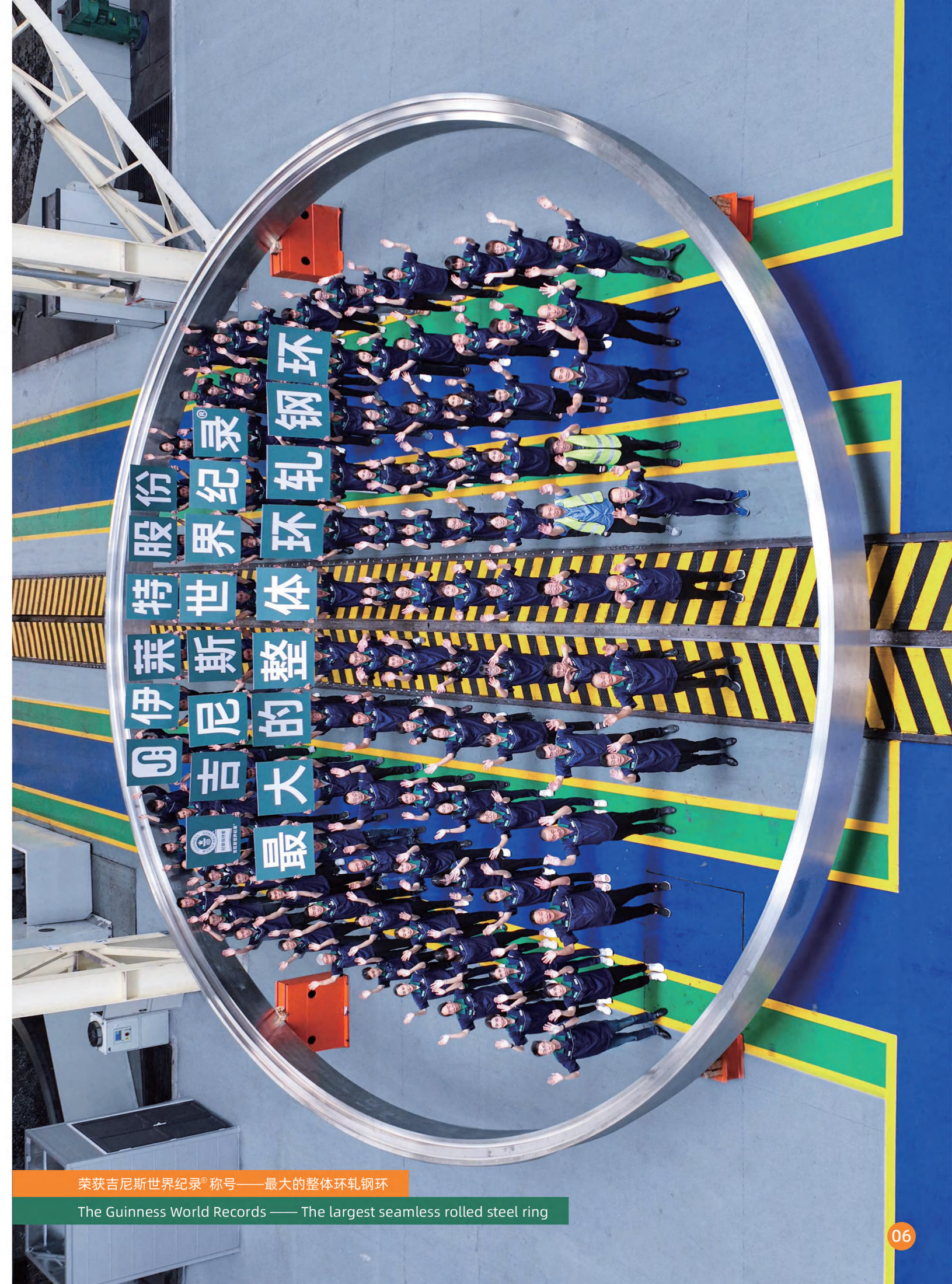
- 直径15673mm
- 重量150 t
- 材质F316H
- 与中国科学院金属所合作研发无痕构筑技术
- 近净成形径轴向轧制工艺

Selected cases and clients:

Xiapu Nuclear power 600MW fast reactor demonstration project
Major Nuclear Power Project
Red River Emergency Diesel Unit Nuclear 2/3 Flange Project

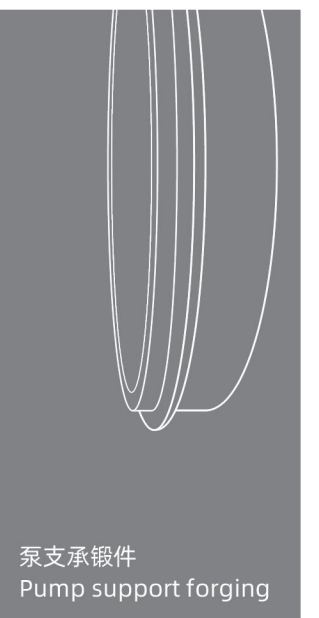
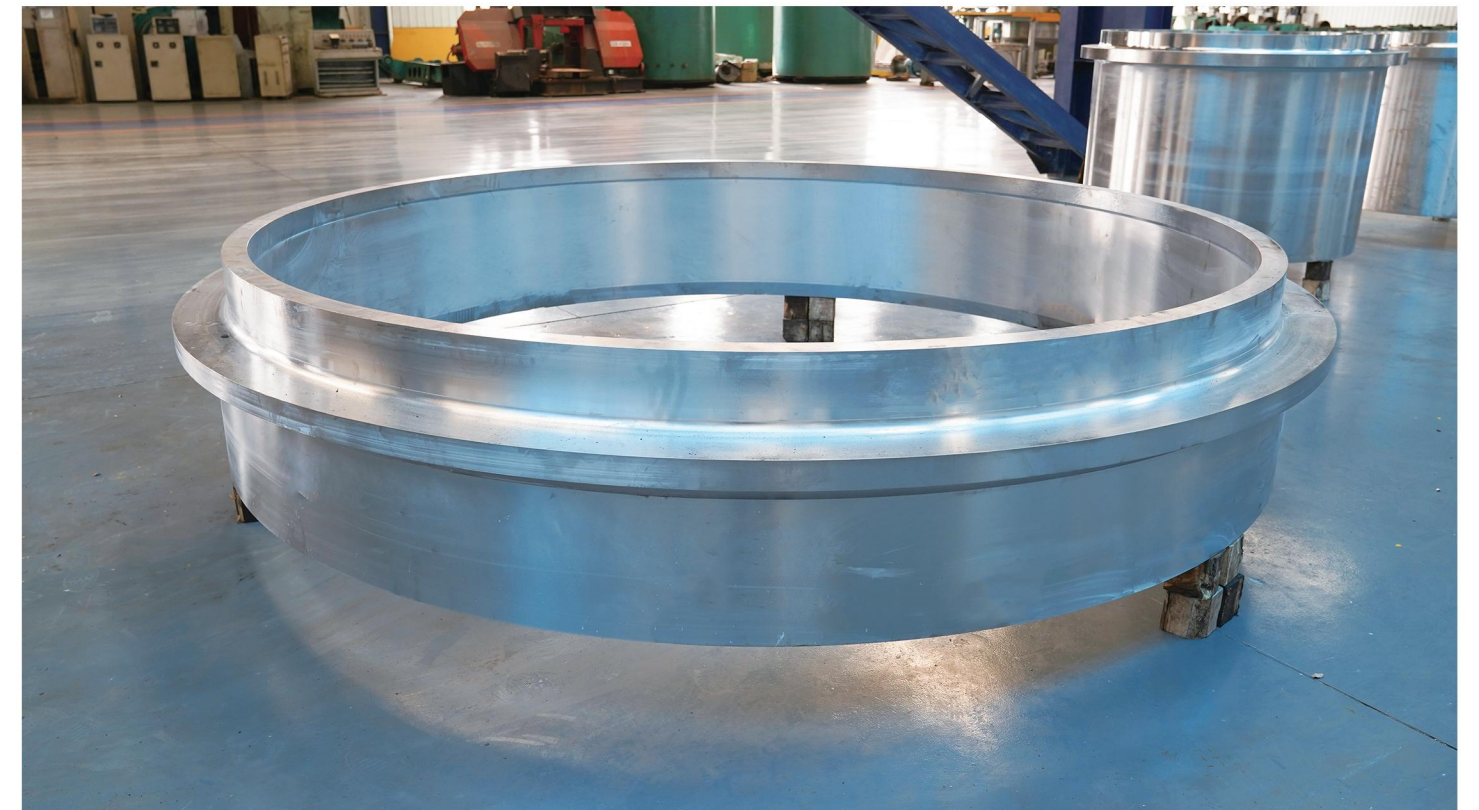
部分案例及客户：

霞浦核电600MW示范快堆项目
核电重大专项
红沿河应急柴油机组核2/3法兰项目





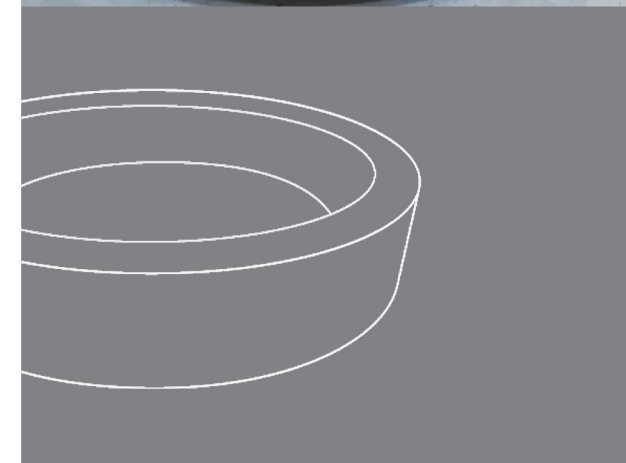
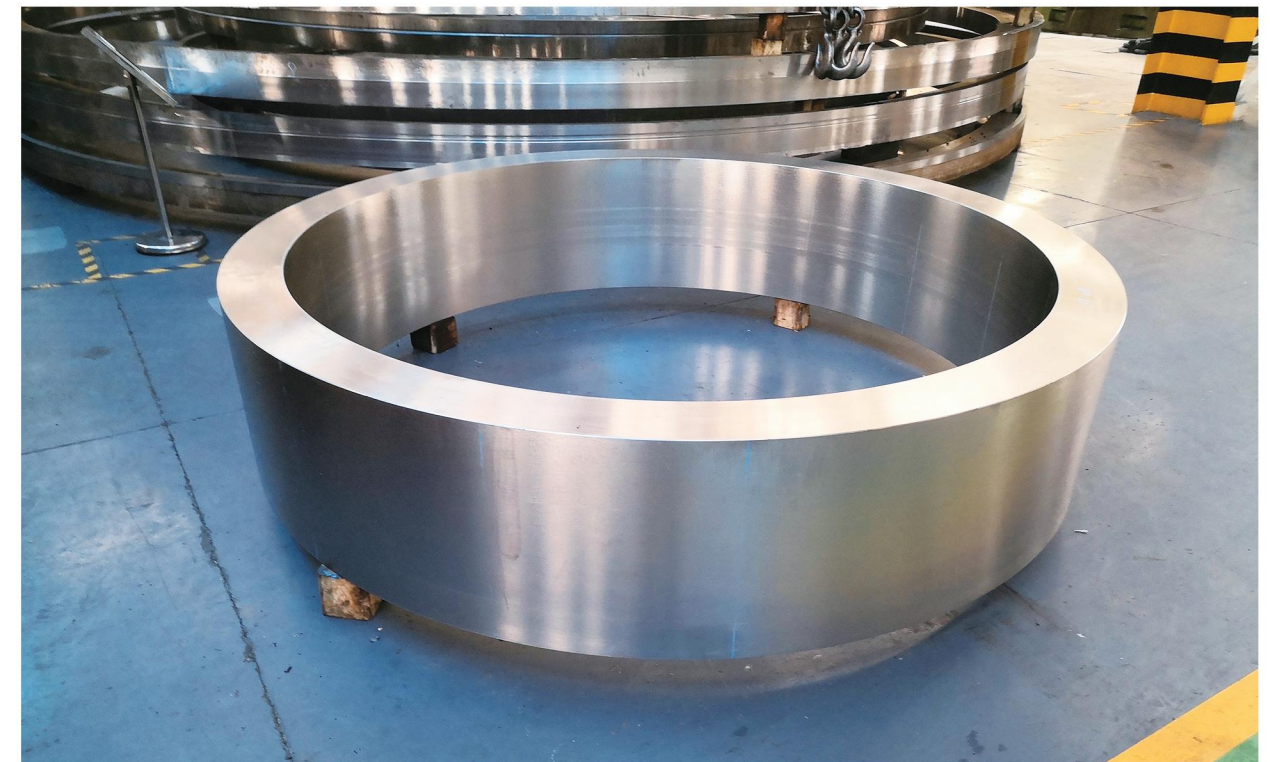
泵支承锻件
Pump support forging



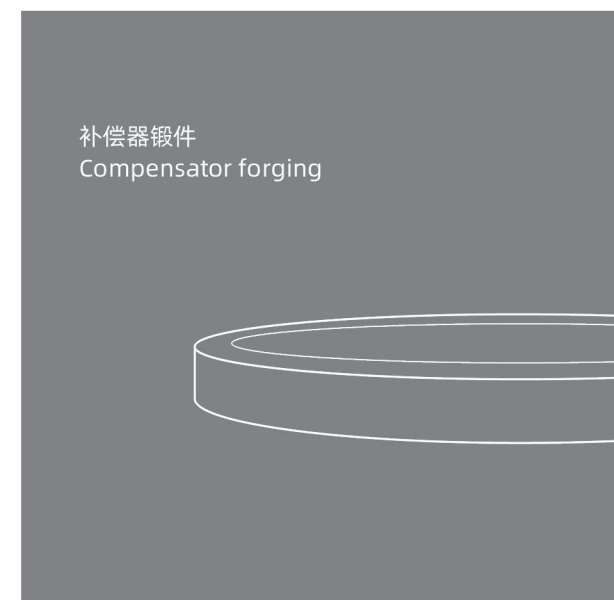
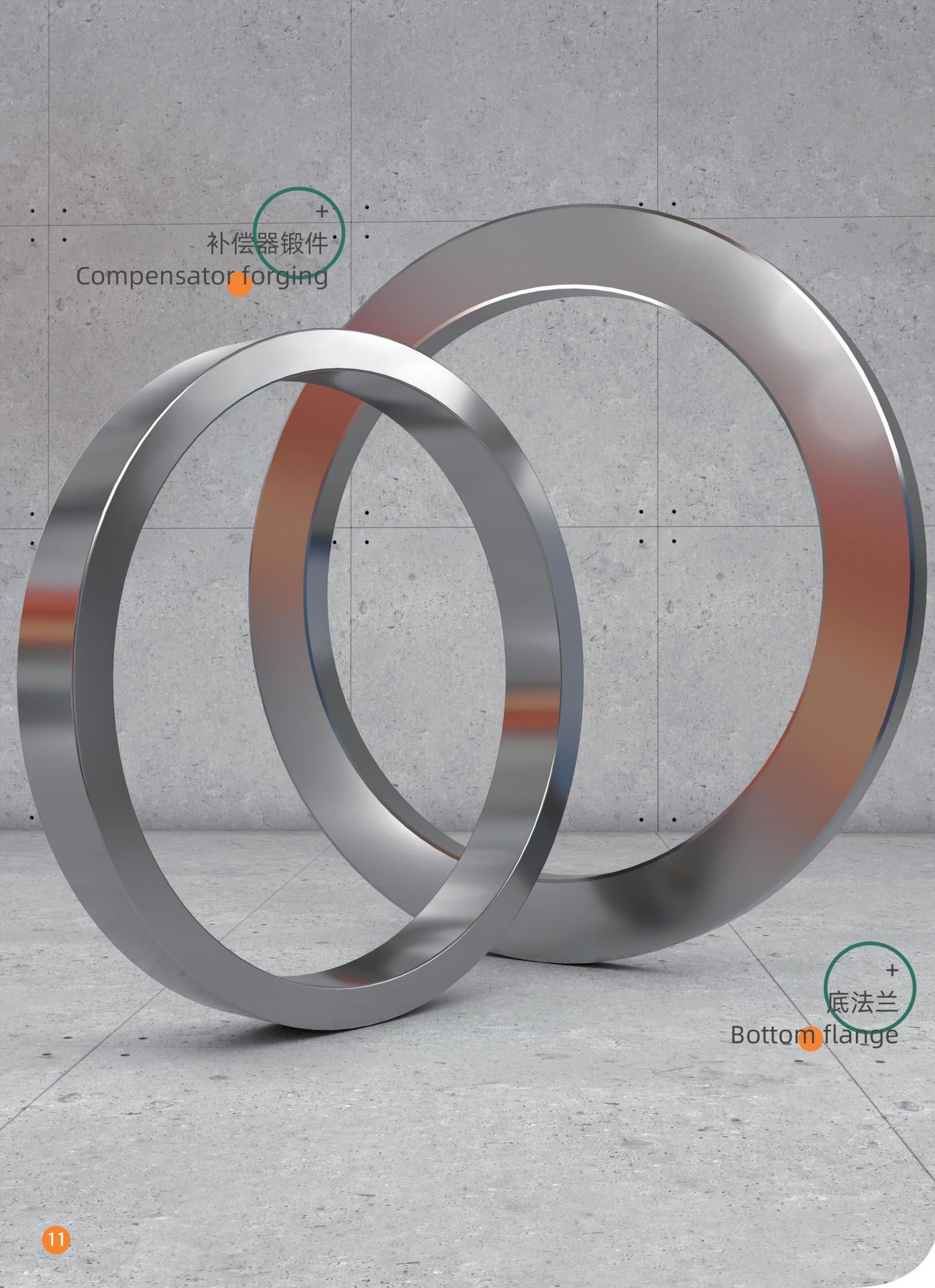
泵支承锻件
Pump support forging



旋塞锻件
Cock forging



旋塞锻件
Cock forging





P

ressure vessel forging for chemical and petrochemical industries

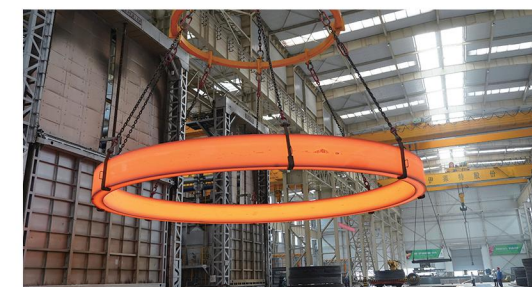
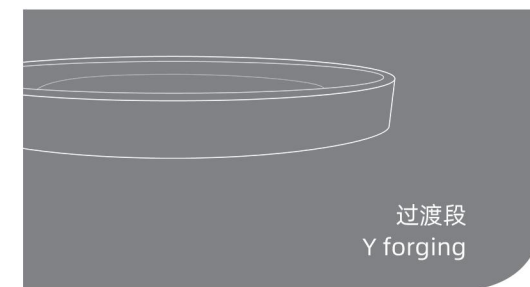
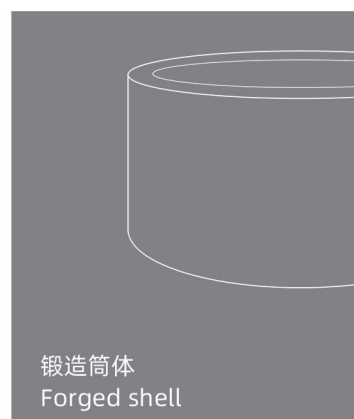
化工及石化领域压力容器配套锻件

Selected cases and clients:

DEWA IV
LNG Canada
JGC
Riyas NG
Lointek
Larsen & Toubro
CNPC
Sinopec
LS Heavy Machinery
Huayang New Material Technology Group

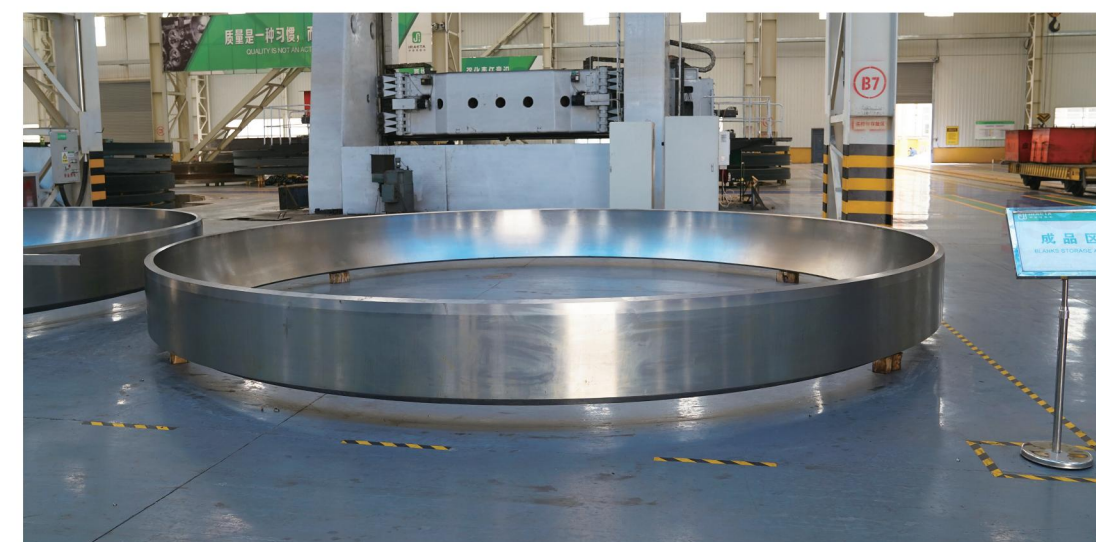
部分案例及客户：

DEWA IV
LNG Canada
JGC
Riyas NG
Lointek
larsen&Toubro
中石油
中石化
兰石重工
华阳集团



FORGED SHELL
OD:6,000/ID:5,000/H:3,000 mm

Y FORGING
OD:9,962/ID:9,482/H:1,050 mm

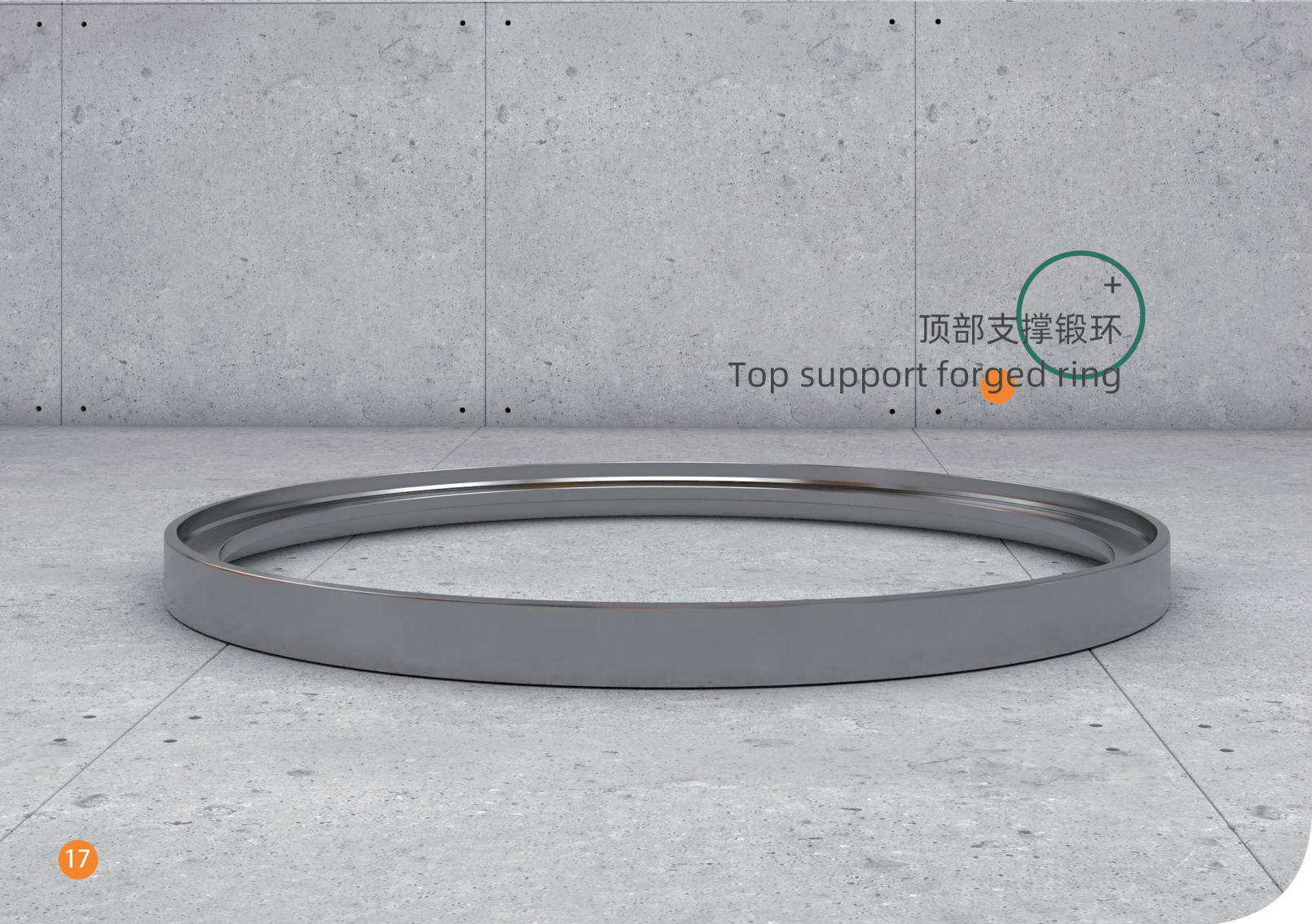


锻造筒体
外径/内径/高度：
6,000/5,000/3,000 mm

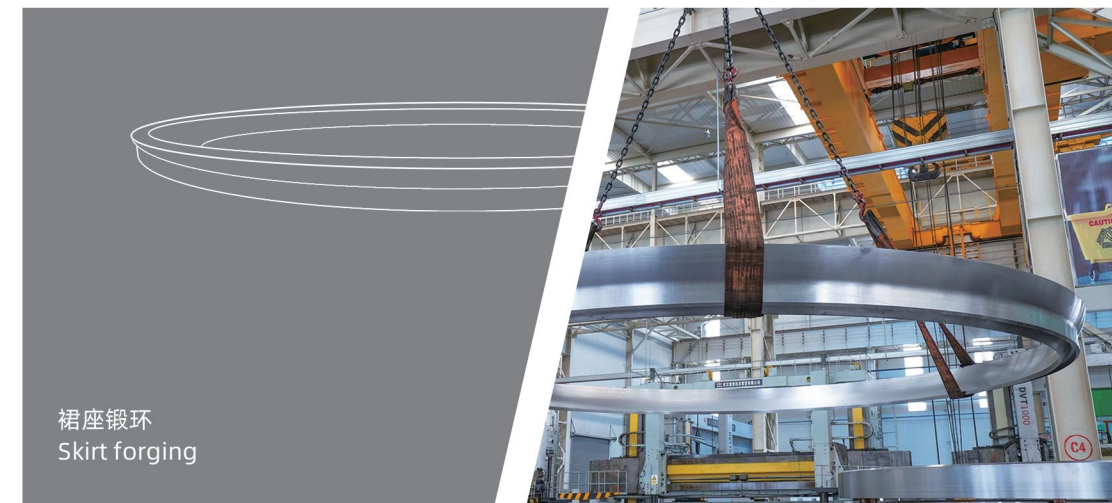
过渡段
外径/内径/高度：
9,962/9,482/1,050 mm



裙座锻环
Skirt forging



顶部支撑锻环
Top support forged ring

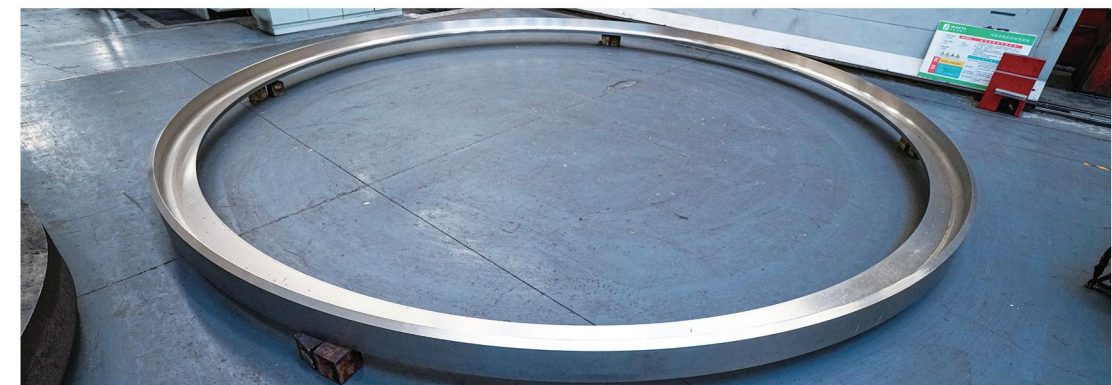


裙座锻环
Skirt forging



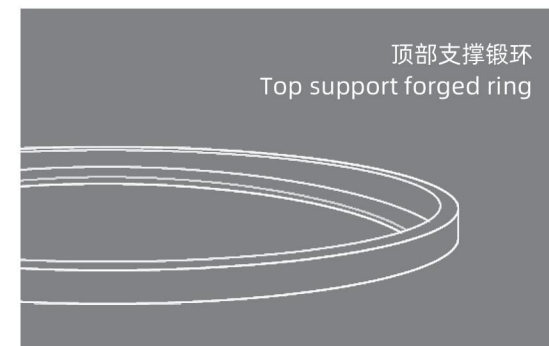
SKIRT FORGING

OD:7,677/ID:7,059/H:430 mm



TOP SUPPORT FORGED RING

OD:6,879/ID:6,379/H:222 mm



顶部支撑锻环
Top support forged ring

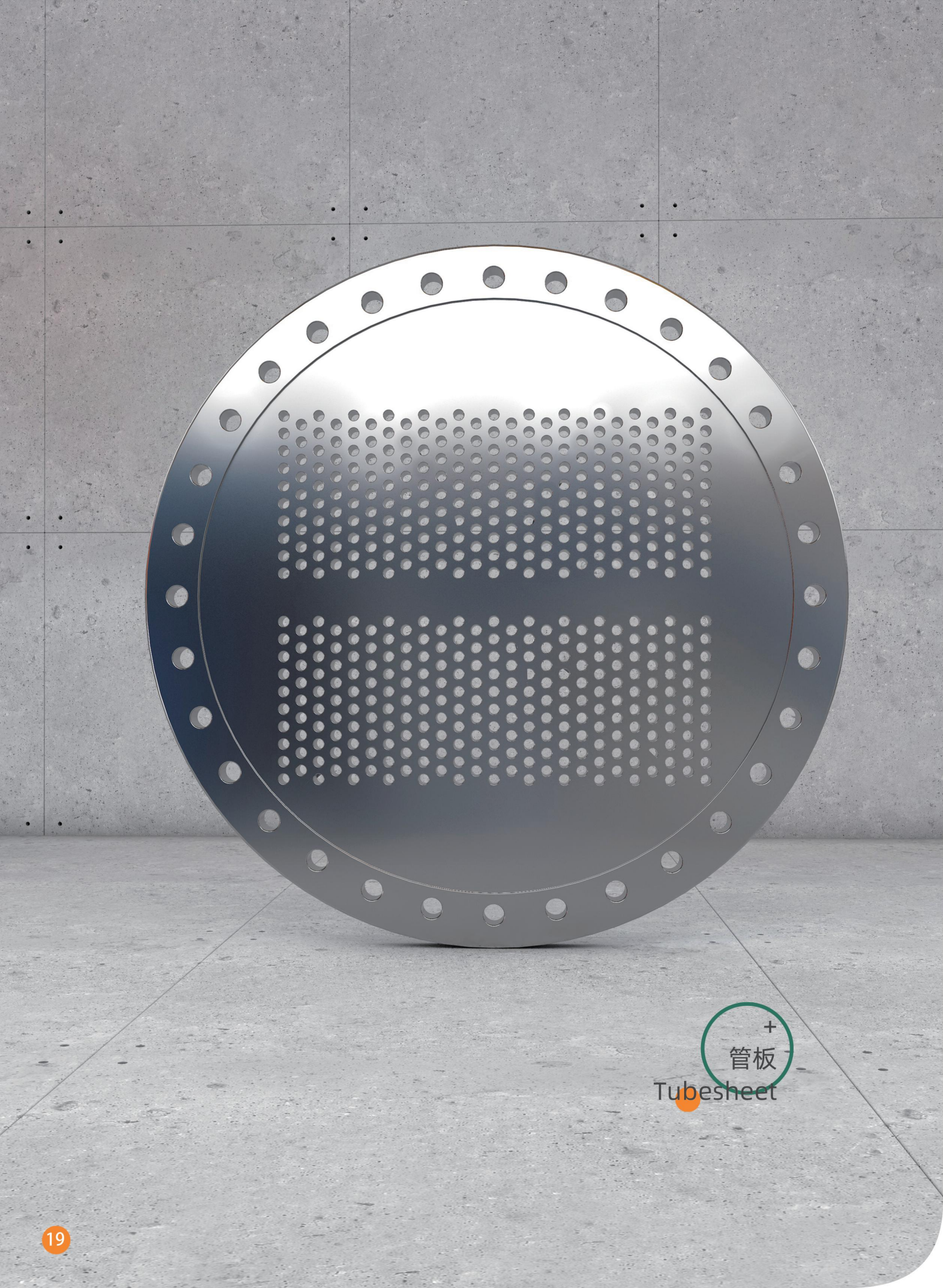


裙座锻环

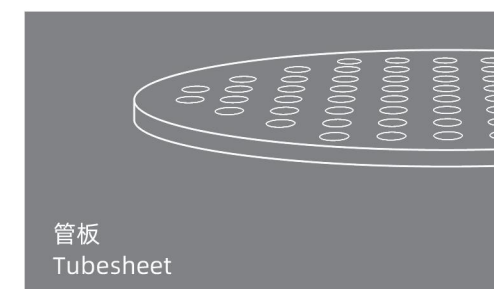
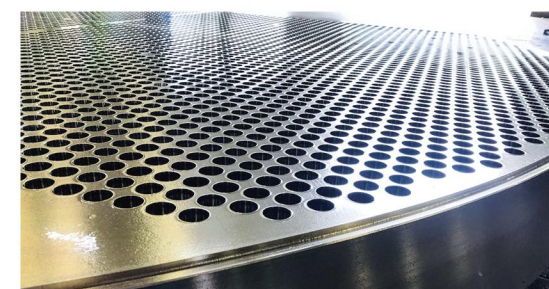
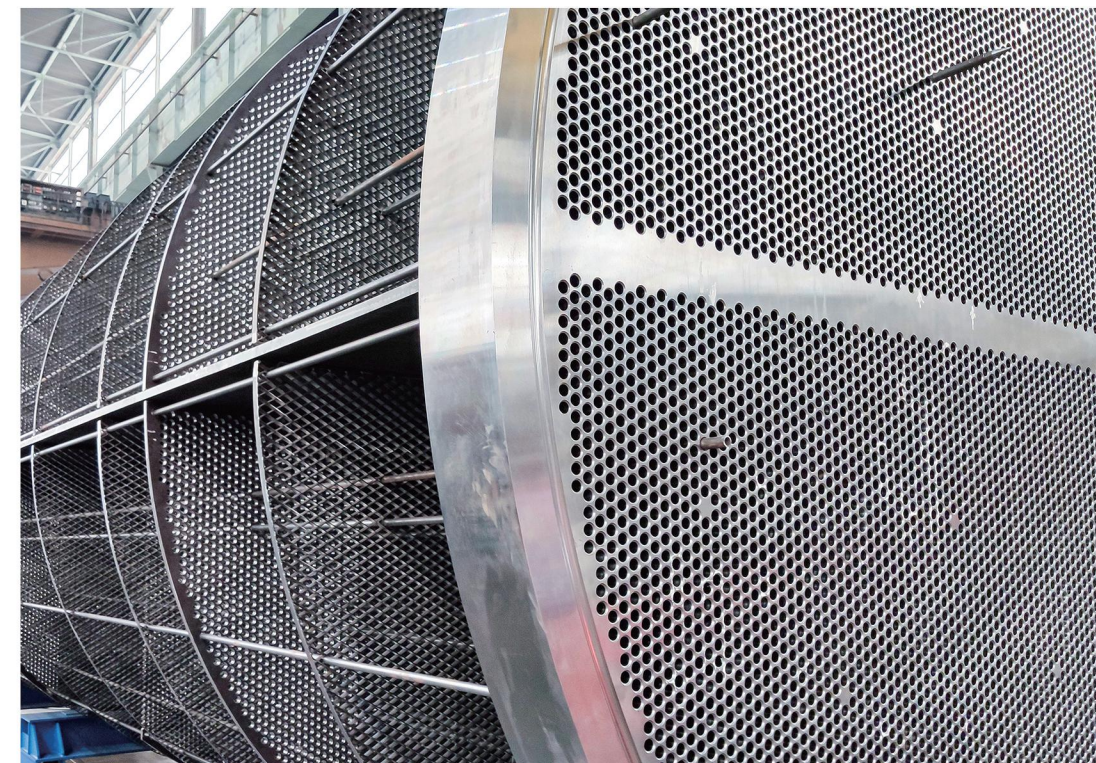
外径/内径/高度:
7,677/7,059/430 mm

顶部支撑锻环

外径/内径/高度:
6,879/6,379/222 mm



+
管板
Tubesheet



管板
Tubesheet



TUBESHEET

OD:4,400/H:210 mm

管板

外径/高度:
4,400/210 mm



Forgings of Hydroelectricity and pumped-storage power station

水电与抽水蓄能用锻件

Selected cases and clients:

Jinyun Hydropower Station Project
Zhongdong Hydropower Station Project
Yuanqu Hydropower Station Project
Yunxiao Hydropower Station Project
Songyang Hydropower Station Project
Funing Hydropower Station Project
Shitai Hydropower Station Project
Baishan Hydropower Station Project
Liujiaxia Hydropower Station Project
Anhui Ningguo Pumped Storage Project
Gansu Zhangye Pumped Storage Project
Shandong Tai'an Phase II Pumped Storage Project
Fengning Pumped Storage Project
Huanggou Pumped Storage Project
Yangjiang Pumped Storage Project Project

部分案例及客户：

缙云水电站项目
中洞水电站项目
垣曲水电站项目
云霄水电站项目
松阳水电站项目
抚宁水电站项目
石台水电站项目
白山水电站项目
刘家峡水电站项目
安徽宁国抽水蓄能项目
甘肃张掖抽水蓄能项目
山东泰安二期抽水蓄能项目
丰宁抽水蓄能项目
荒沟抽水蓄能项目
阳江抽水蓄能项目

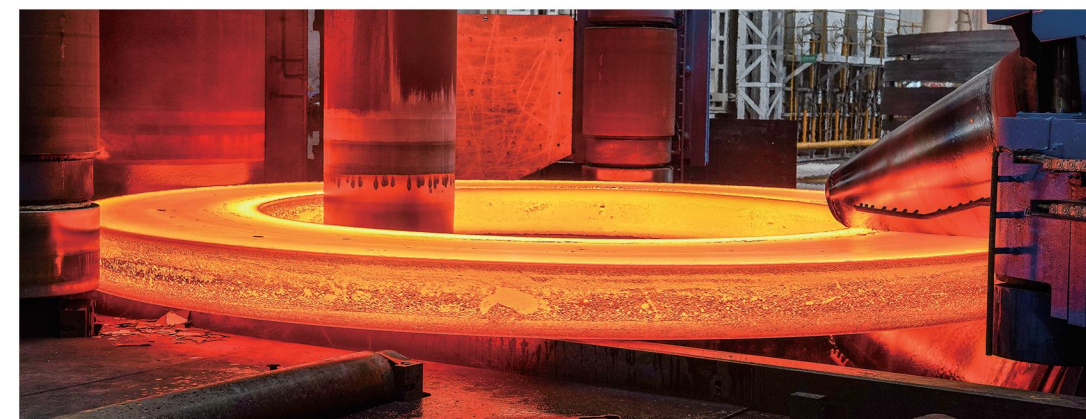


顶盖法兰
Top cover flange

磁轭圆盘/环板
Magnetic yoke disc/Annular plate



顶盖法兰
Top cover flange



磁轭圆盘/环板
Magnetic yoke disc/Annular plate



TOP COVER FLANGE

OD:6,950/ID:5,700/H:410 mm

MAGNETIC YOKE DISC/ ANNULAR PLATE

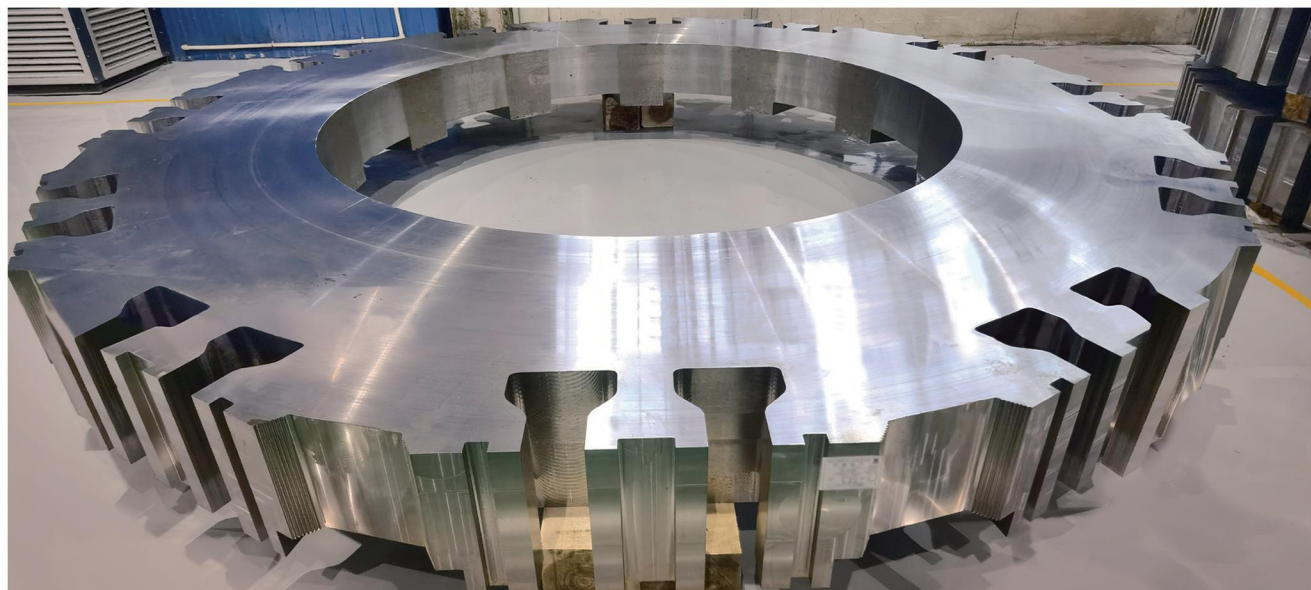
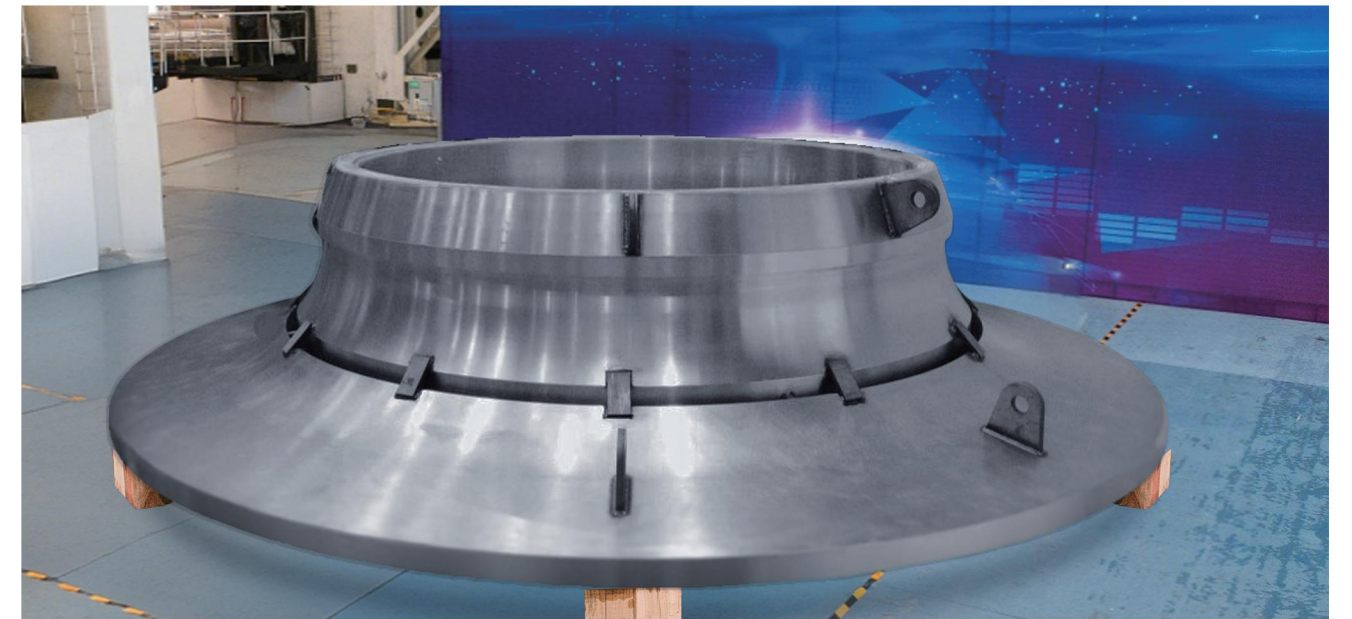
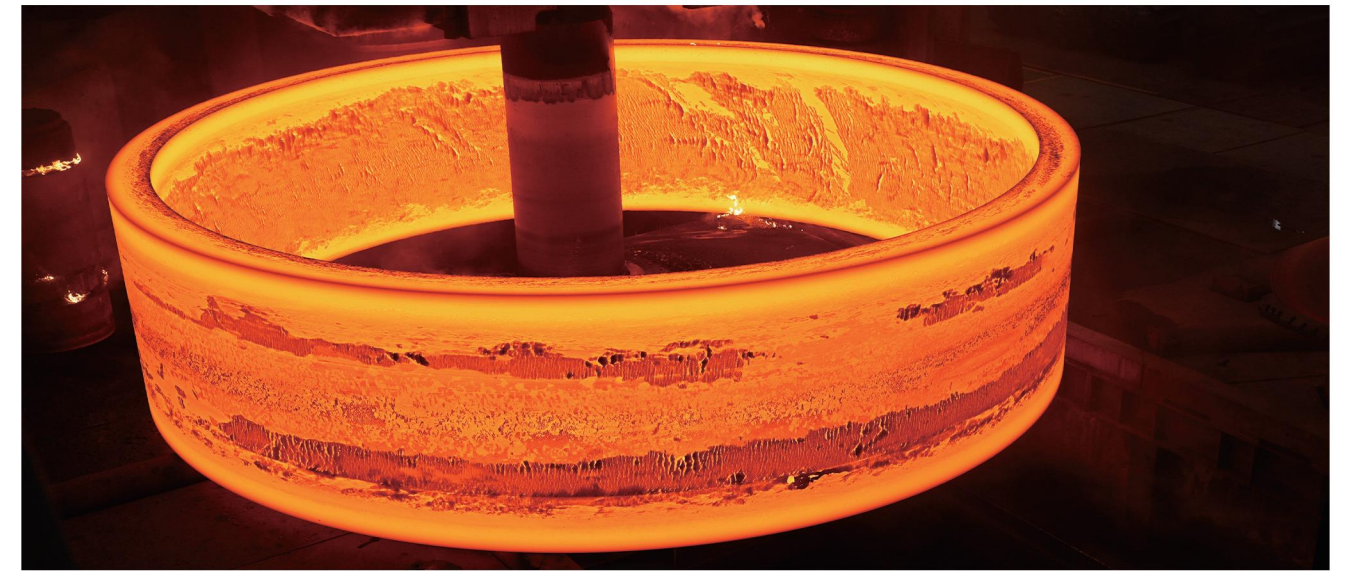
OD:4,695/ID:3,340/H:300 mm

顶盖法兰

外径/内径/高度：
6,950/5,700/410 mm

磁轭圆盘/环板

外径/内径/高度：
4,695/3,340/300 mm





Forgings of engineering machinery bearing and mining metallurgical machinery

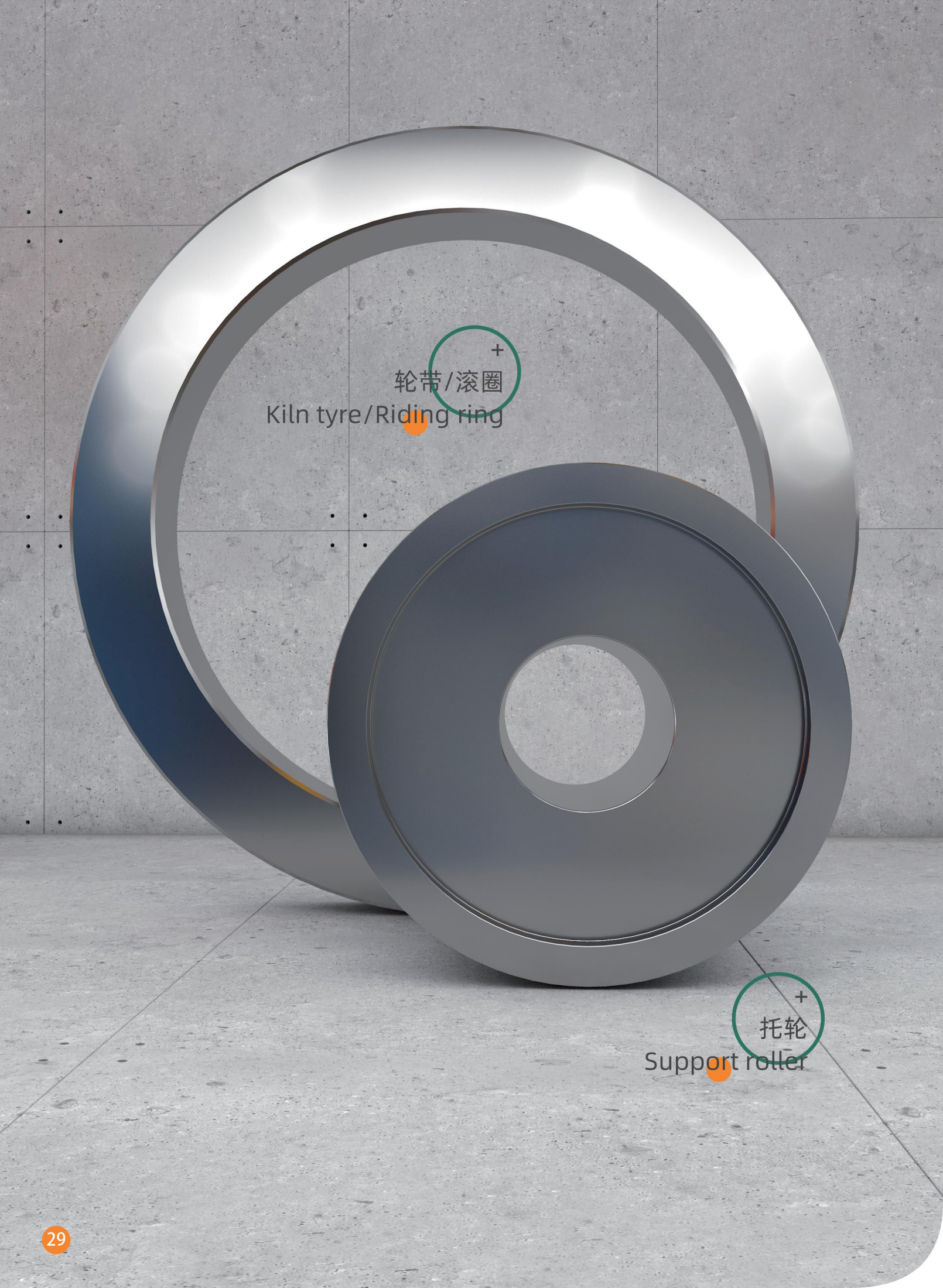
工程机械轴承及矿山冶金机械锻件

Selected cases and clients:

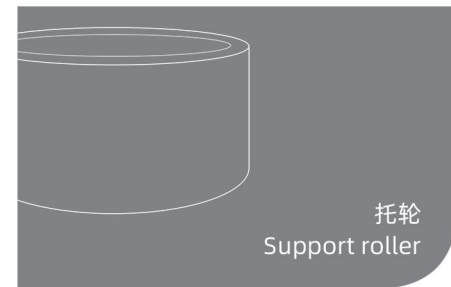
ThyssenKrupp
FLSmidth
Kumera
Valmet
KHD
TKIL
Heidelberg
Jiangsu Pengfei Group
Chaoyang Heavy Machinery
Sinoma Technical Service
China National Building Materials Group
CEMEX

部分案例及客户:

ThyssenKrupp
FLSmidth
Kumera
Valmet
KHD
TKIL
Heidelberg
江苏鹏飞
朝阳重型
中材机电备件有限公司
中国建材集团
西麦斯



轮带/滚圈
Kiln tyre/Riding ring



托轮
Support roller

KILN TYRE/RIDING RING

OD:8,170/ID:6,712/H:1,069 mm

SUPPORT ROLLER

OD:2,508/ID:842/H:1,158 mm



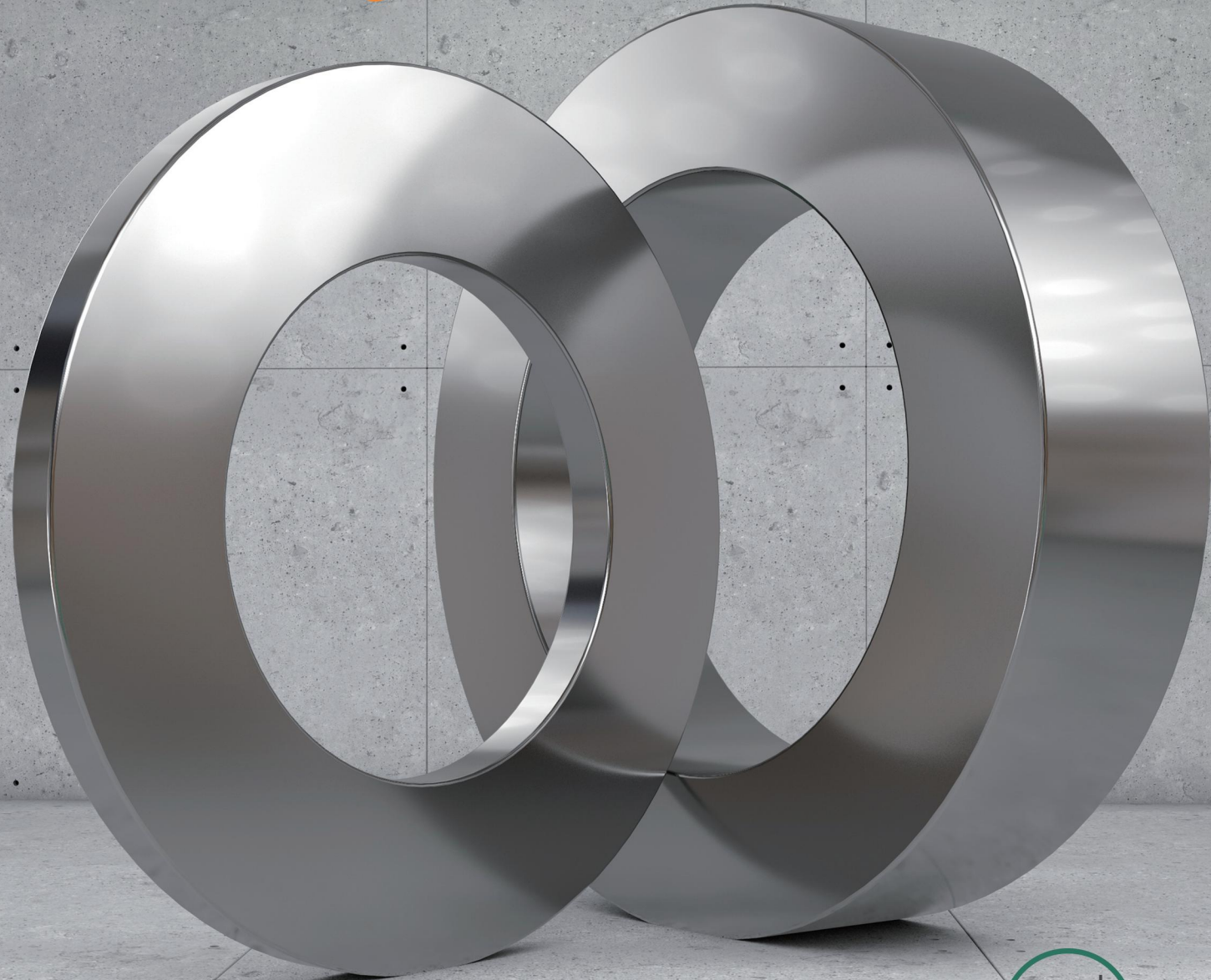
轮带/滚圈

外径/内径/高度:
8,170/6,712/1,069 mm

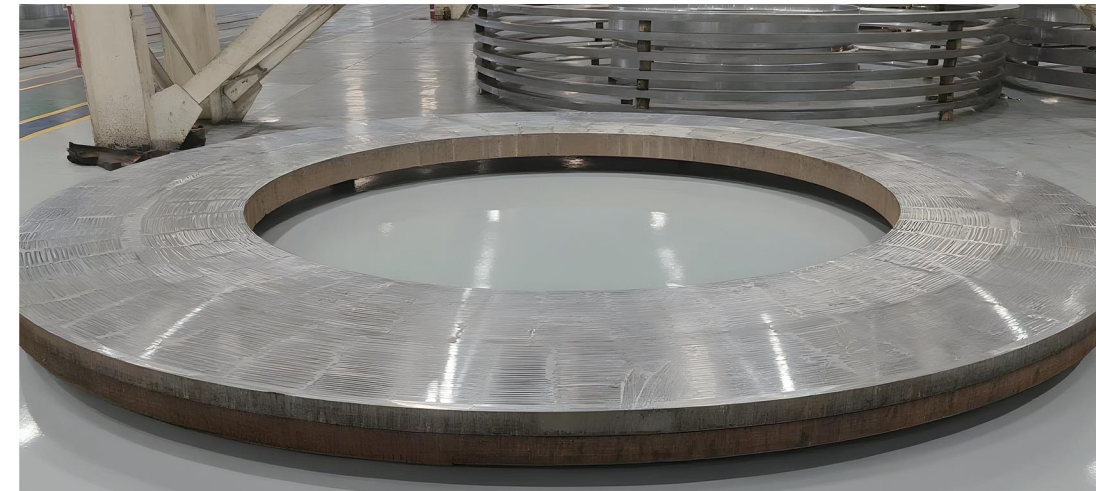
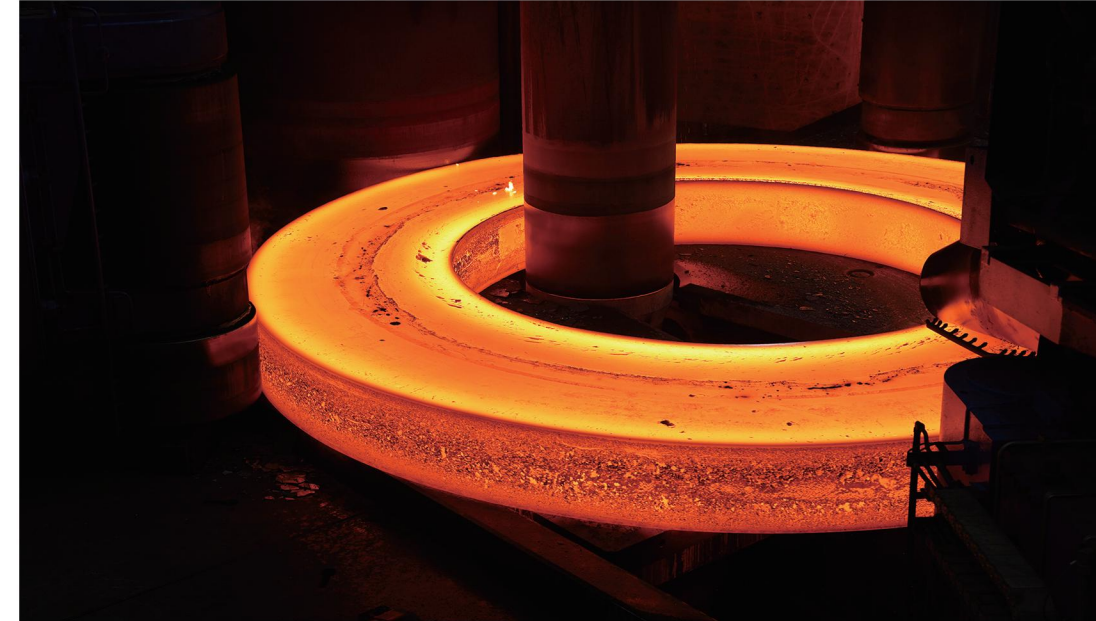
托轮

外径/内径/高度:
2,508/842/1,158 mm

刀盘法兰
Cutter flange



驱动法兰
Driving disc flange

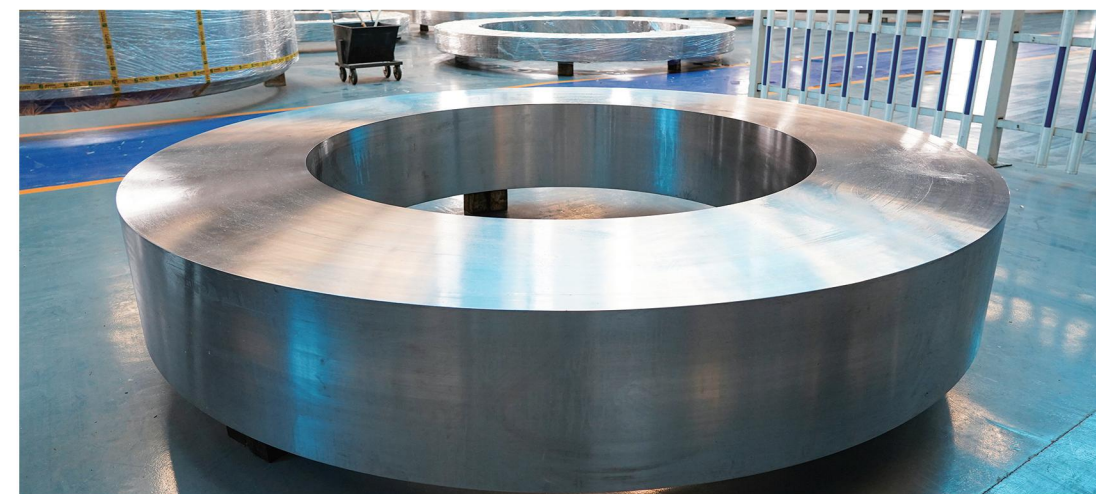


CUTTER FLANGE

OD:7,625/ID:4,860/H:220 mm

DRIVING DISC FLANGE

OD:2,910/ID:1,990/H:155 mm



刀盘法兰

外径/内径/高度：
7,625/4,860/220 mm

驱动法兰

外径/内径/高度：
2,910/1,990/155 mm



Forgings of Marine engineering equipment and offshore wind power

海工装备及海上风电锻件

Selected cases and clients:

Guangdong Jingyin 3500KJ super large hydraulic pile hammer

UK EA1 project

Fujian Pinghai Bay project

Borssele project in Netherlands

部分案例及客户：

广东精钢3500KJ超大型液压打桩锤

英国EA1项目

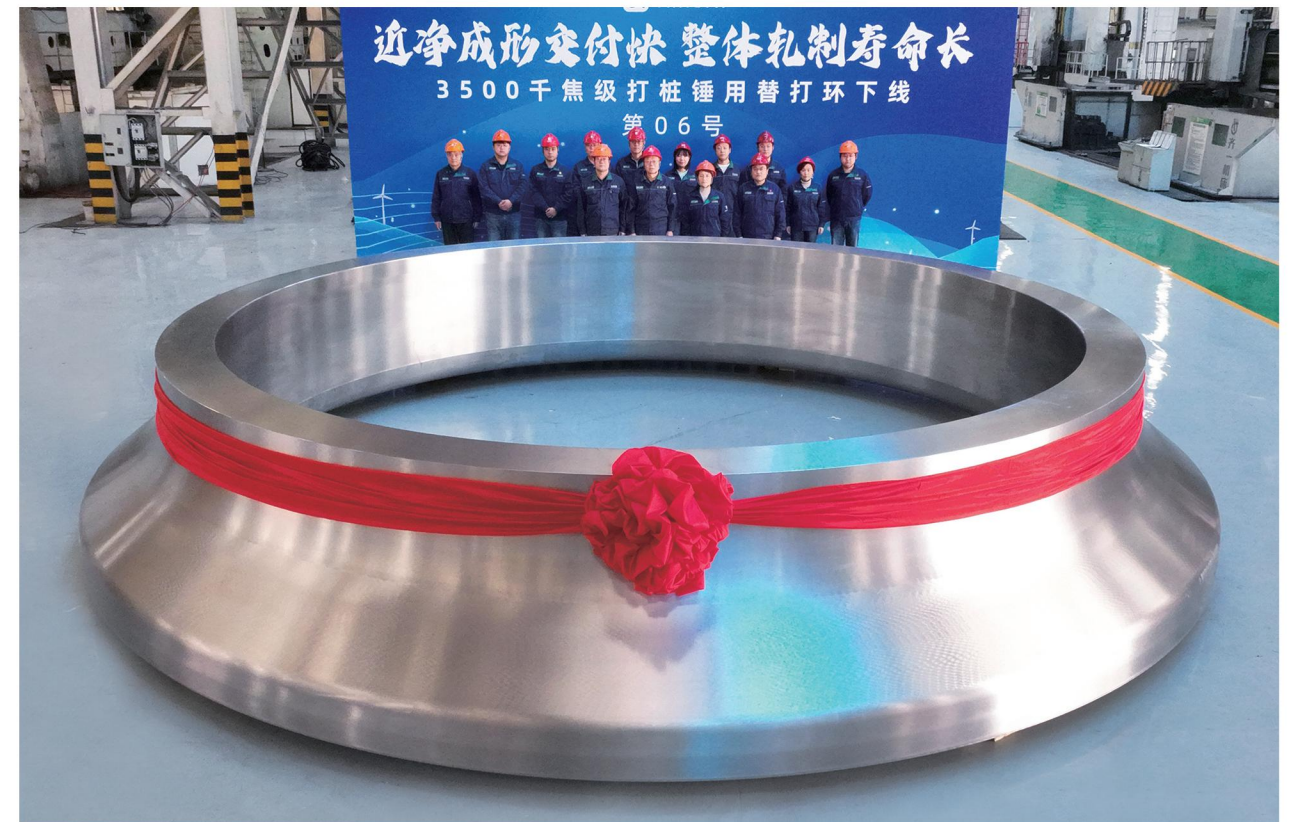
福建平海湾项目

荷兰Borssele项目



+
替打环
Anvil ring

+
送桩器锻件
Pile feeder forging



近净成形交付快 整体轧制寿命长
3500千焦级打桩锤用替打环下线
第06号

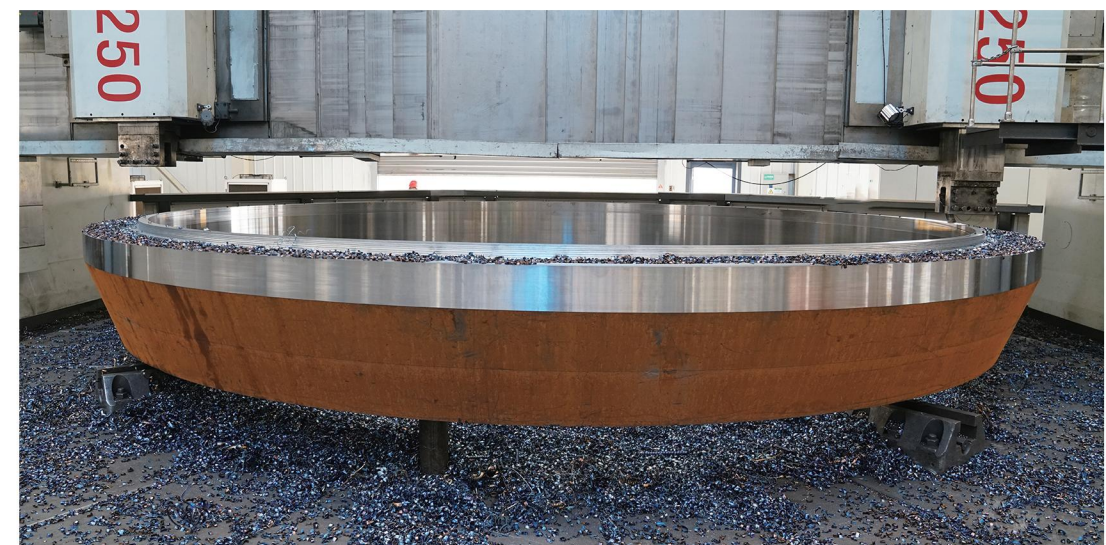


ANVIL RING

OD:7,580/ID:5,800/H:1,200 mm

PILE FEEDER FORGING

OD:7,530/ID:6,670/H:785 mm



替打环

外径/内径/高度:
7,580/5,800/1,200 mm

送桩器锻件

外径/内径/高度:
7,530/6,670/785 mm

· · 风电法兰
Wind tower flange



+ 齿圈
Gear ring

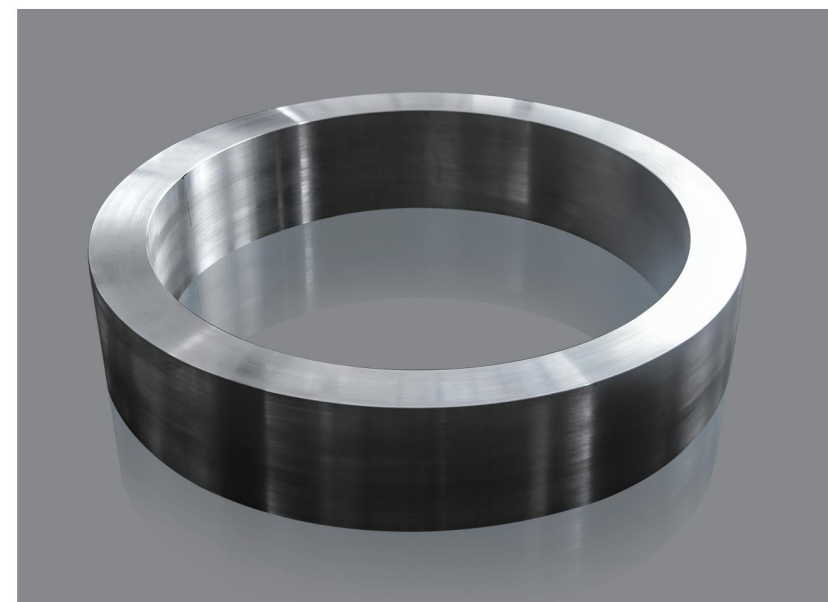


WIND TOWER FLANGE

OD≤16m

GEAR RING

OD:5,794/ID:5,480/H:203 mm



风电法兰

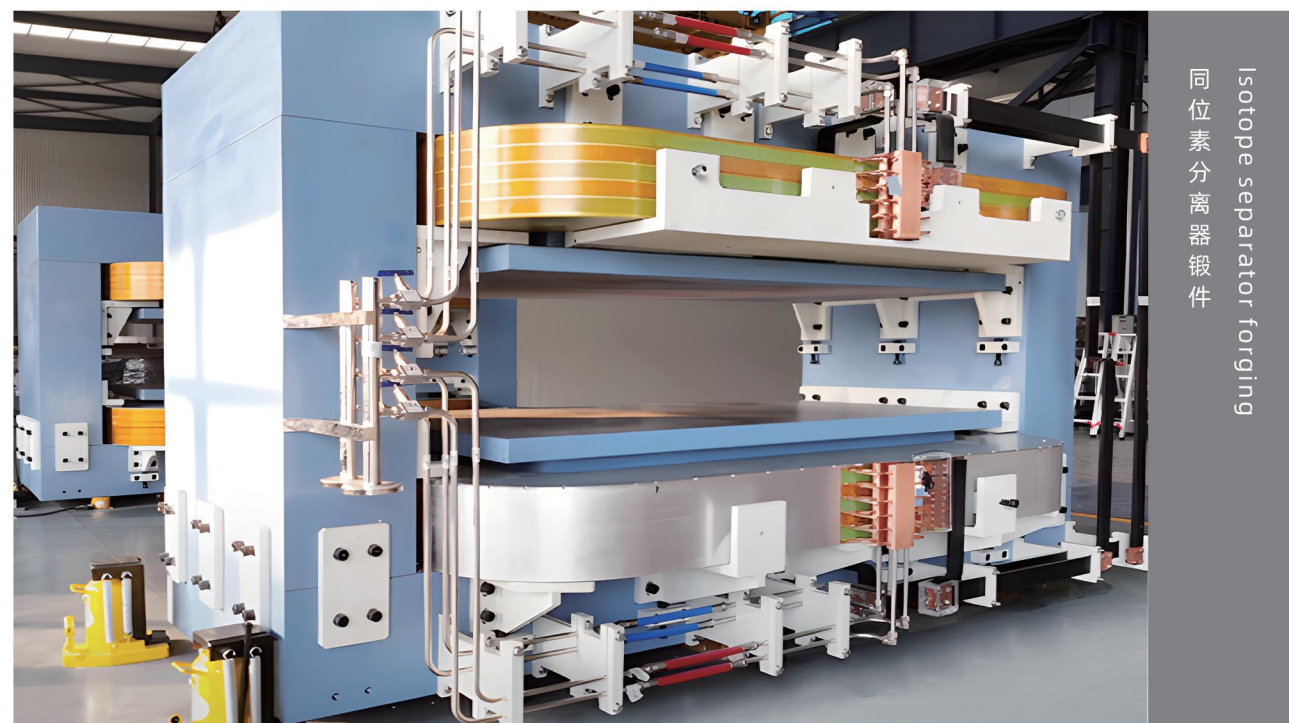
外径≤16m

齿圈

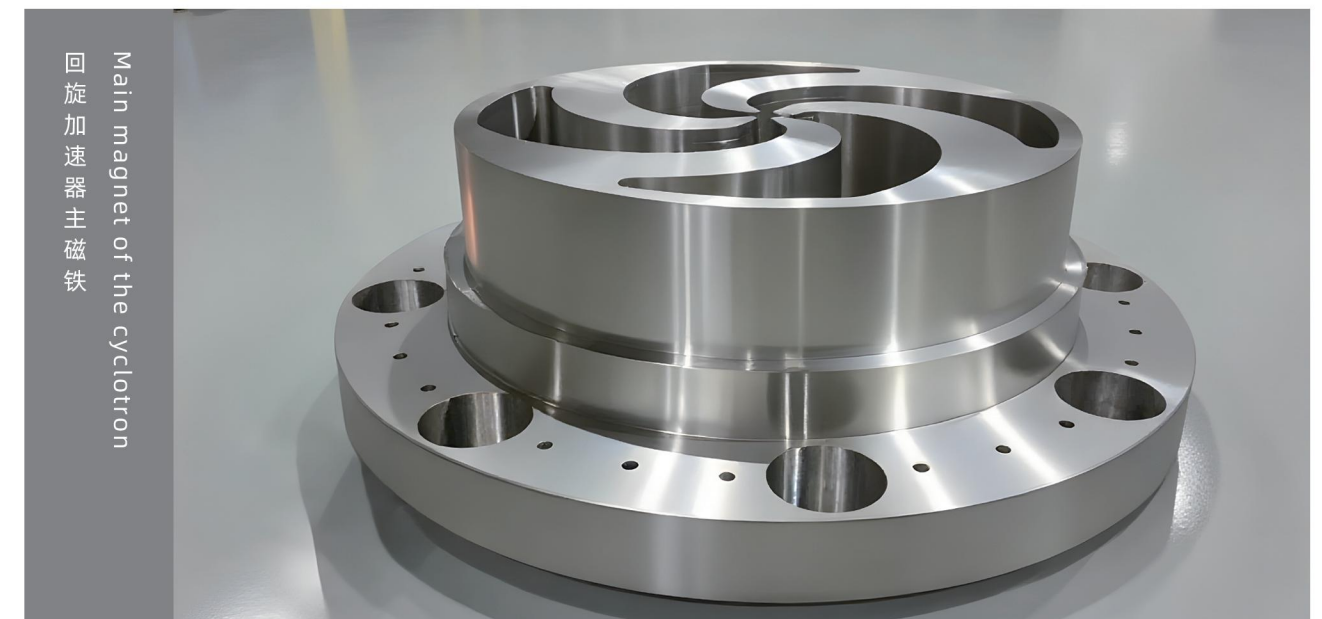
外径/内径/高度:
5,794/5,480/203 mm

Forgings for nuclear medical equipment

核医疗装备锻件



同位素分离器锻件
Isotope separator forging



回旋加速器主磁铁
Main magnet of the cyclotron



可控·可靠·可追溯

品质保障/QUALITY ASSURANCE



连铸坯
Continuous casting billet



浇铸钢锭
Casting ingots



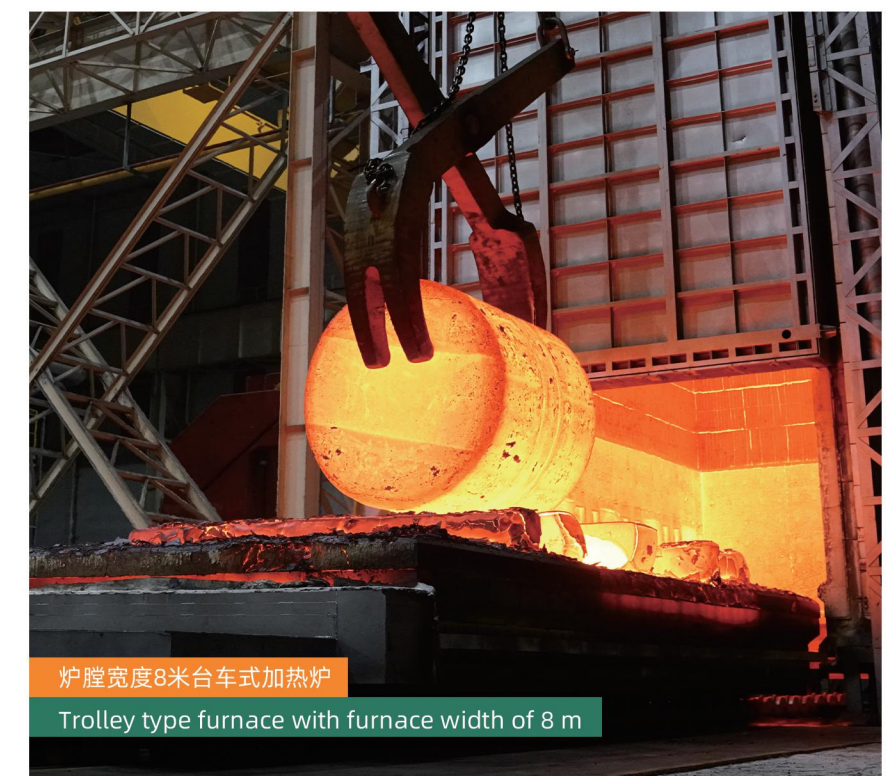
超纯净电渣锭
Ultra-pure electroslag ingots

The stock ground is fixed management, and the raw materials can enter the site after double inspection (customer demand standard, internal control standard)

料场定置化管理，原材料经双重检验（客户需求标准、内部控制标准）方可进场。

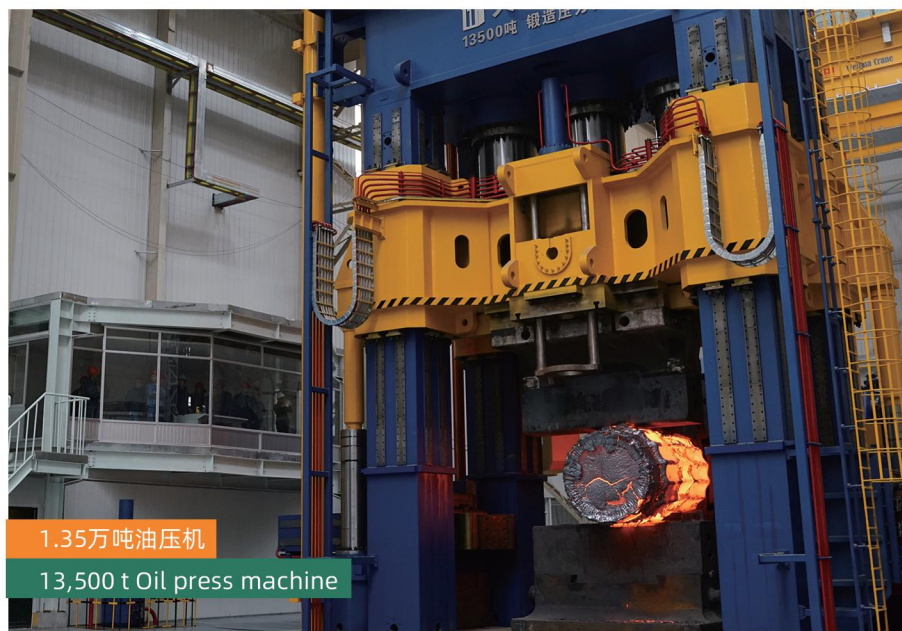


锯床
Cutting machine



炉膛宽度8米台车式加热炉
Trolley type furnace with furnace width of 8 m

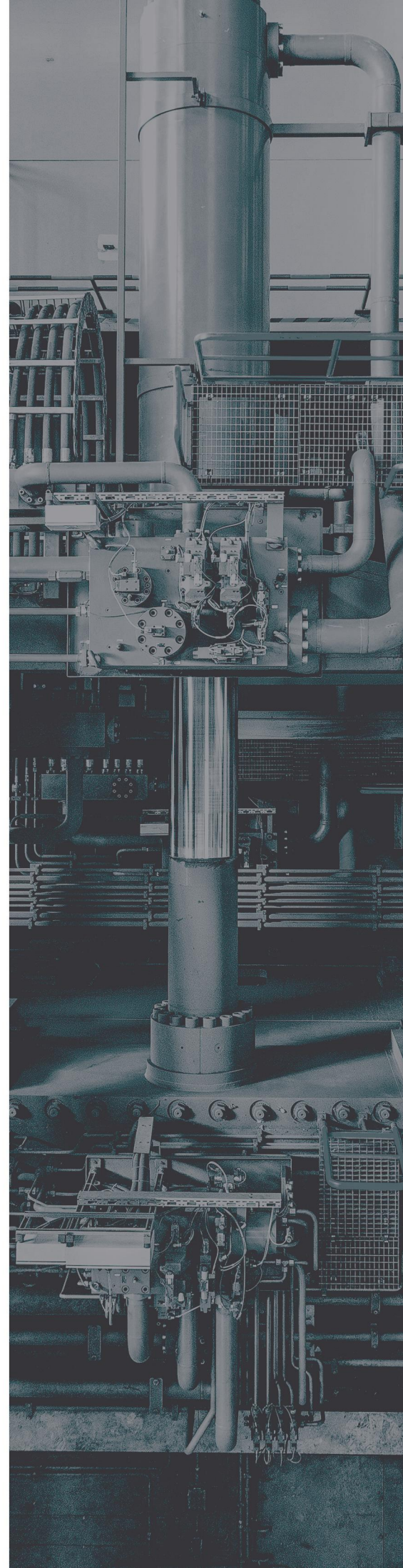




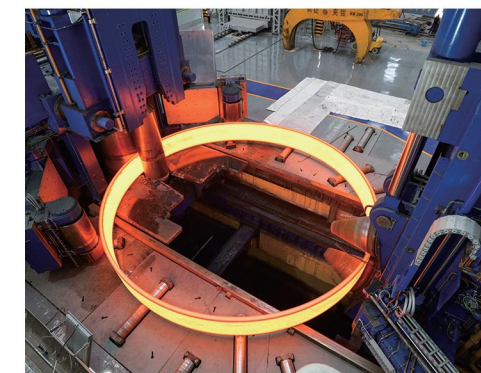
1.35万吨油压机
13,500 t Oil press machine



- High-level precision control: German Bosch Rexroth hydraulic system, Siemens electronic control system
- Great operational capability: Max. pressure: 13500 t, total height: 18.5 m, Travel of movable beam: 3.5 m, clearance: 7 m, width of movable table: 5 m, stroke: 10 m.
- 高精度控制：德国力士乐液压系统、西门子电控系统
- 强作业能力：最大压力13500吨，总高度18.5米，活动横梁行程3.5米、净空7米，移动工作台宽5米、行程10米



超级轧环轧筒机
Super rolling machine for rings and shells



- Max. rolling diameter: 16 m, max. height: 3 m
- Max. rolling unit weight: 200 t
- Max. radial rolling force: 2500 t, max. axial rolling force: 1250 t
- Custom made by SMS Group, Germany
- 最大轧制直径16米、高度3米
- 最大轧制单重200吨
- 最大径向轧制力2500吨、轴向轧制力1250吨
- 德国西马克集团特别定制

超大装备 Extra Large Equipment



- Great operational capability:
Max. pressure: 22000 t, total height: 31.68 m, Travel of movable beam: 4.5 m, clearance: 7 m, width of movable table: 5 m, stroke: 15 m

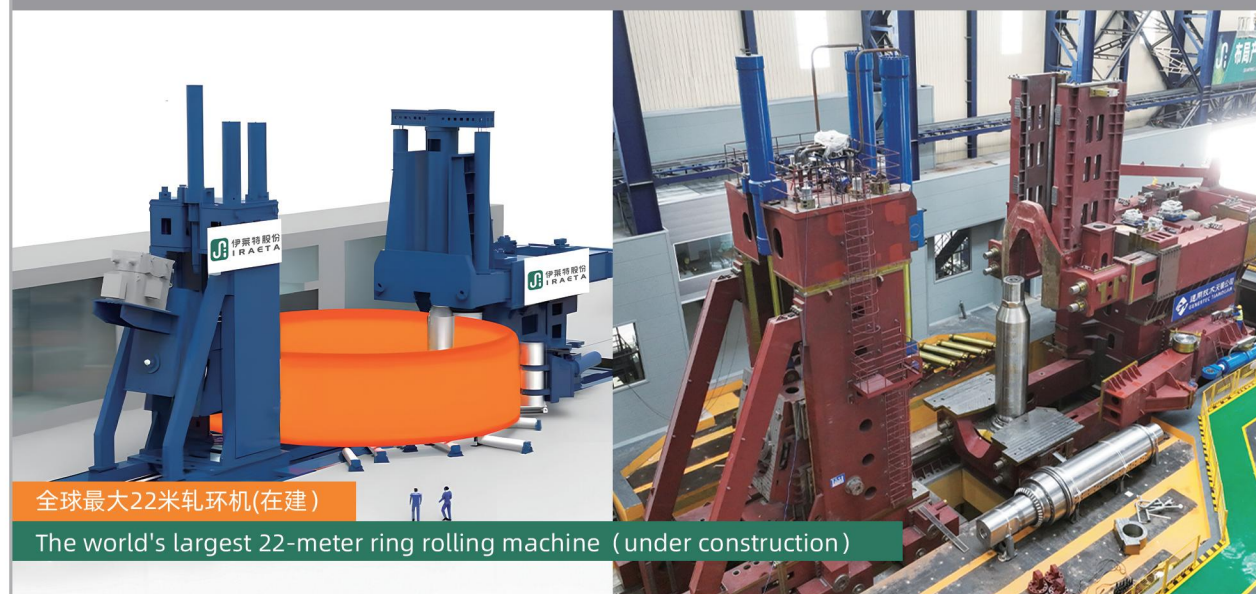
- 强作业能力：最大压力 22000 吨，总高度 31.68 米，活动横梁行程 4.5 米、净空 7 米，移动工作台宽 5 米、行程 15 米

全球最大2.2万吨自由锻液压机

The world's largest 22,000-ton open die forging hydraulic press

- Max. rolling diameter: 22 m, max. height: 5 m
- Max. rolling unit weight: 350 t
- Max. radial rolling force: 5500 t, max. axial rolling force: 2500 t

- 最大轧制直径 22 米、高度 5 米
- 最大轧制单重350吨
- 最大径向轧制力5500吨、最大轴向轧制力2500吨



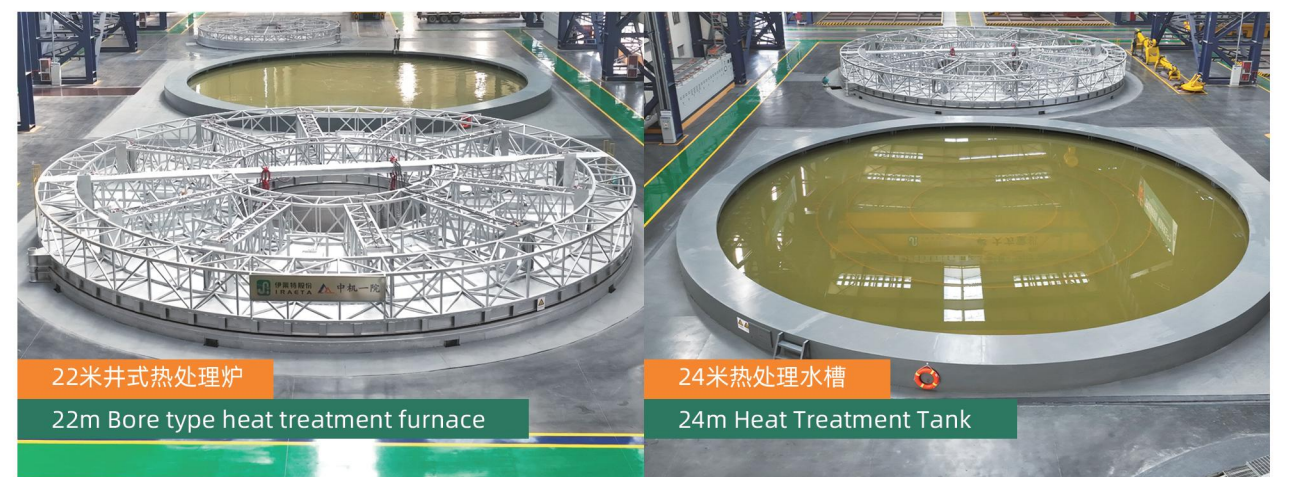
全球最大22米轧环机(在建)

The world's largest 22-meter ring rolling machine (under construction)



超大型台车式热处理炉

Extra-large trolley heating treatment furnace



22米井式热处理炉

22m Bore type heat treatment furnace

24米热处理水槽

24m Heat Treatment Tank



22米数控立车(在建)

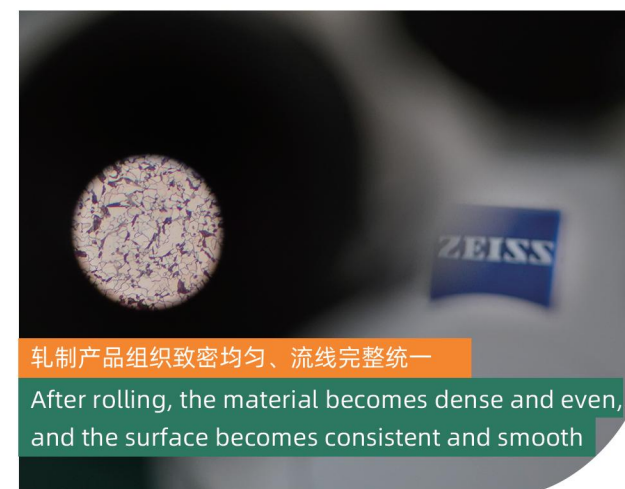
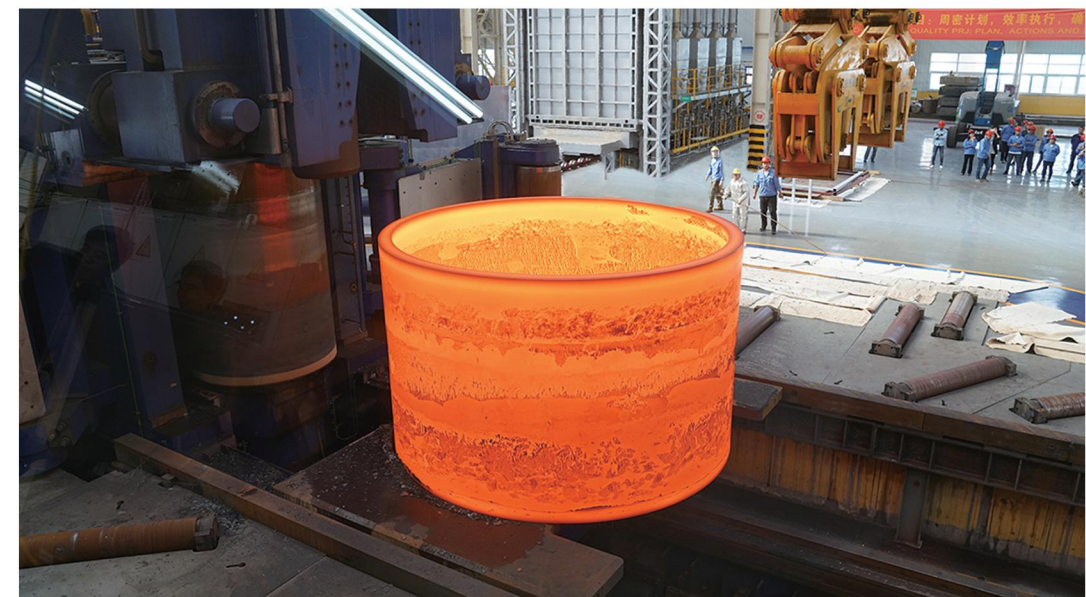
22m CNC vertical lathe (Under construction)



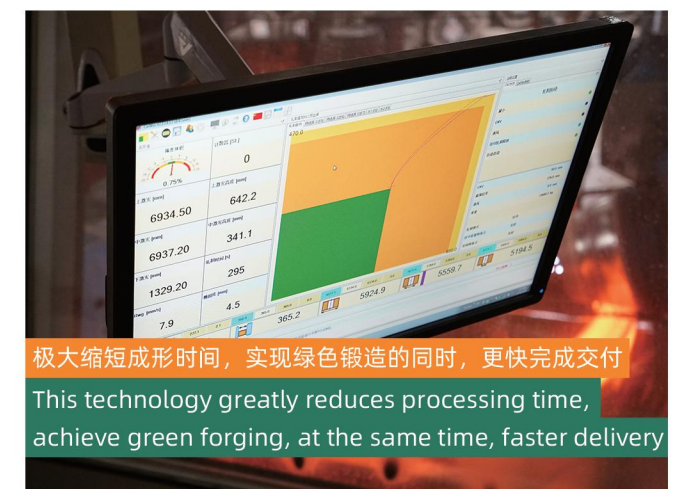
径轴向轧制工艺
RADIAL-AXIAL ROLLING TECHNOLOGY



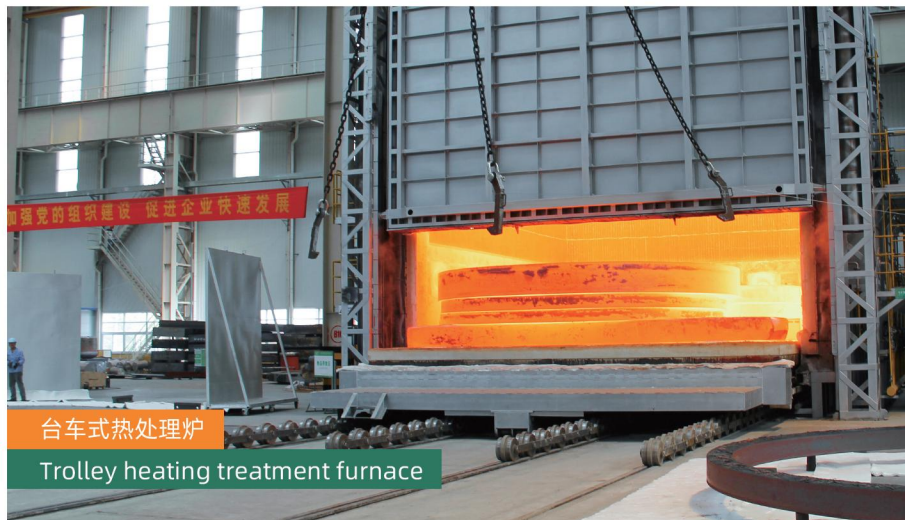
大型环类、盘类、筒体锻件近净成形
Near-net-shape of large ring, disc and shell



轧制产品组织致密均匀、流线完整统一
After rolling, the material becomes dense and even,
and the surface becomes consistent and smooth



极大缩短成形时间，实现绿色锻造的同时，更快完成交付
This technology greatly reduces processing time,
achieve green forging, at the same time, faster delivery



台车式热处理炉
Trolley heating treatment furnace

Regularly testing of furnace temperature uniformity, equipment accuracy, etc., ensures strict control over heating, holding and cooling procedures of the heat treatment

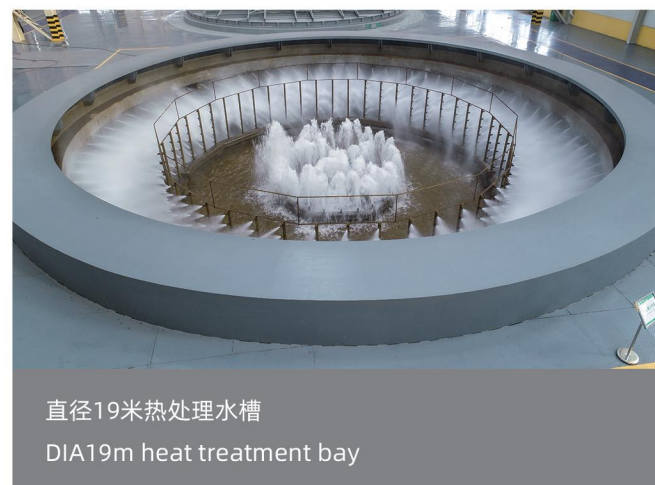
定期检测炉温均匀性、设备精度等，严格控制热处理环节中的升温、保温、冷却。



内径7.5米罩式对开热处理炉
ID7.5 m bell type split heat treatment furnace



内径17.5米井式热处理炉
ID17.5m bore type heat treatment furnace



直径19米热处理水槽
DIA19m heat treatment bay



16米/12.5米/10米/9米/8米/6.3米双柱立式车床
16m/12.5m/10m/9m/8m/6.3m Double-Column Vertical lathe



16米高速钻床
16m high-speed drill machine

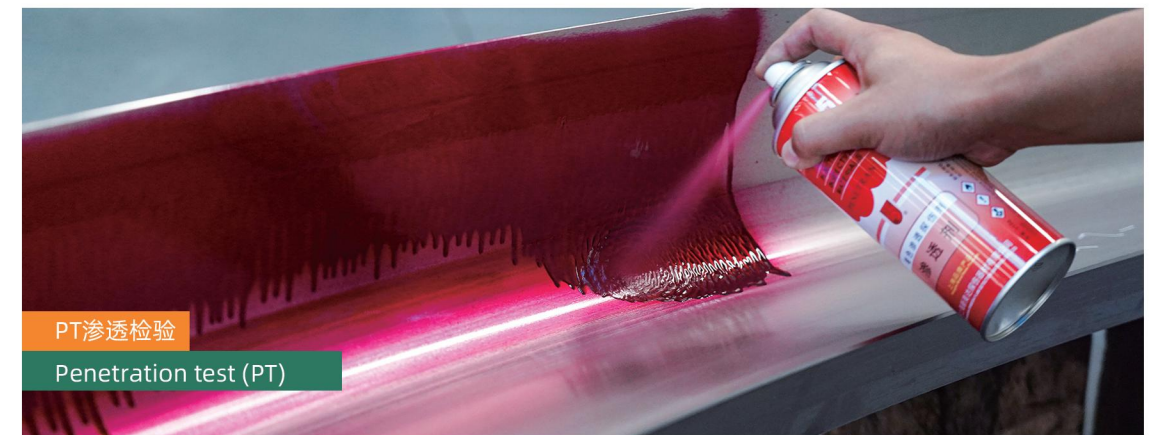


双头钻床加工中心
Dual head drill machine machining center



试样留存

Sample retention



PT渗透检验

Penetration test (PT)



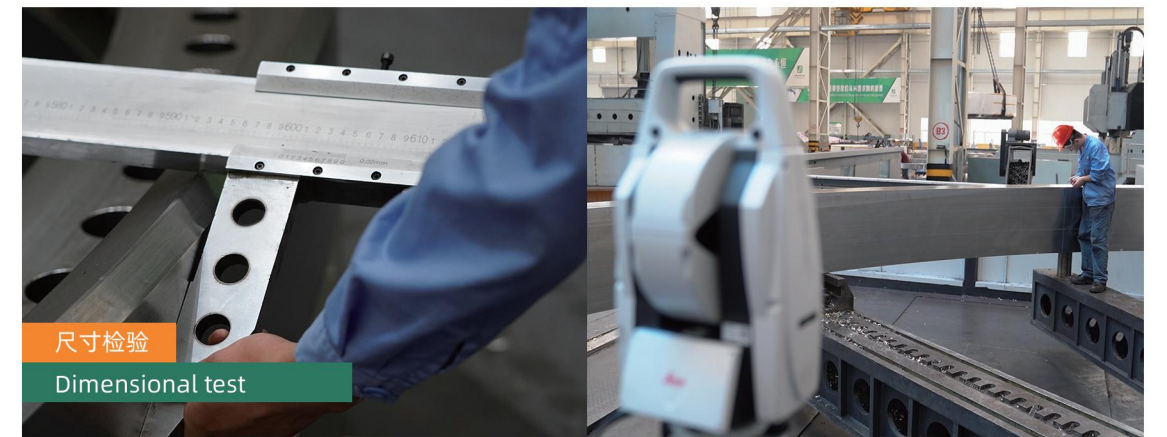
高温拉伸试验

High temperature tensile test



冲击试验

Impact test



尺寸检验

Dimensional test



金相检验

Metallographic test



硬度检验

Hardness test



粗糙度检验

Roughness test



表面硬度检验

Surface hardness test



UT超声波检验

Ultrasonic testing (UT)



MT磁粉检验

Magnetic particle test (MT)



包装

Packaging



全程可追溯完工资料

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Cooperation with Two Academicians Ensures More Reliable Materials

双院士合作，材料更可靠

我们携手中国科学院李依依、李殿中两位院士，依托其在金属材料领域的权威造诣，深耕金属构筑成形技术，专攻特殊原材料定制。金属构筑成形技术实现异种金属高效连接，适配大型装备需求并降本。这些技术已深度服务多领域：为核电设备提供耐辐射保障，延长水电站叶片寿命，助力风电机组抗极端气候，为海洋平台构建防腐蚀体系，满足高端炼化装置要求。我们以技术赋能产业，致力于为全球客户创造可持续价值。



We collaborate with Academicians Li Yiyi and Li Dianzhong of the Chinese Academy of Sciences, leveraging their authoritative expertise in metallic materials to specialise in metal construction forming technology and customise specialised raw materials. This technology enables efficient joining of dissimilar metals, accommodating large-scale equipment requirements while reducing costs. These technologies have been extensively applied across multiple sectors: providing radiation resistance for nuclear power equipment, extending the lifespan of hydroelectric turbine blades, enhancing wind turbine resilience against extreme weather, constructing corrosion protection systems for offshore platforms, and meeting the requirements of high-end refining and chemical processing facilities. We empower industries through technology, committed to creating sustainable value for our global clients.



Tackling complex challenges
alongside our clients

与您并肩应对复杂挑战

售前/Pre-sales

01
技术沟通
Technical Communication



02
定制方案
Customized solution



03
商务合作
Business cooperation



售中/In-sales

01
跟踪每个生产环节
Tracking each production process



02
与客户保持密切沟通
keeping close communication with clients



03
及时反馈产品进度
Timely feedback on the progress of products



售后/Post-sales

01
交付后持续关注
Ongoing attention after delivery



02
收集产品工作信息
Collect product work information



03
内部讨论，优化方案，以便下次提供更好的产品
Internal discussions, solution optimization,
In order to provide better products next time

