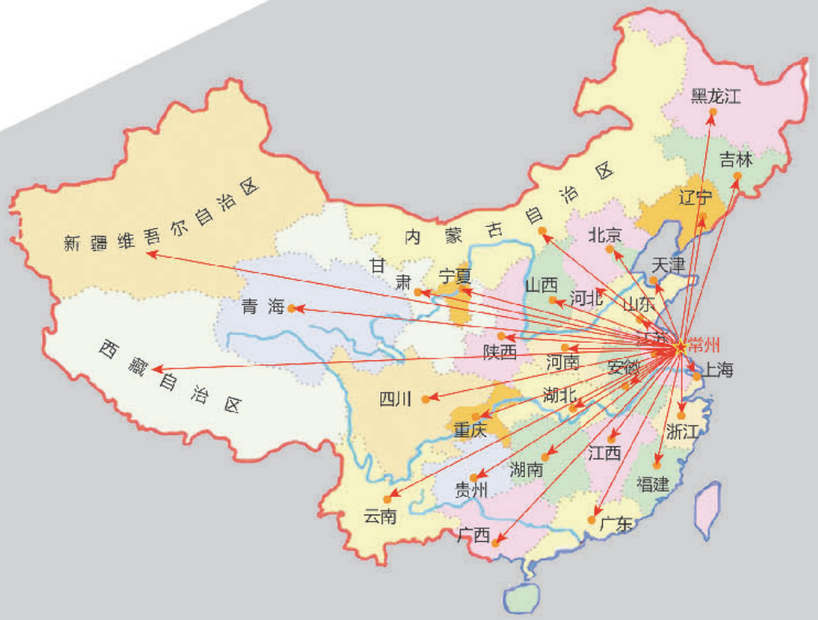


宣宣重工

**江苏宣宣重工机械有限公司**
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www.pipejackingmachine.com

宣宣重工

# XUANXUAN HEAVY

提供专业非开挖工程设备解决方案
Provide professional Micro Tunnelling & Pipe Jacking equipment solution

**江苏宣宣重工机械有限公司**
JIANGSU XUANXUAN HEAVY MACHINERY CO.,LTD

# 领导致辞
# LEADER SPEECH

**尊敬的朋友：**

企业科学发展，需要继承创新的力量。

昨日的辉煌成就积淀我们的内涵，今日的华丽变身追逐我们的梦想。

伟强集团将旗下工程机械资源有效整合，成立江苏宣宣重工机械有限公司。作为拥有三十多年历史的企业，伟强集团的全资子公司，宣宣重工制造生产领域微型顶管机、非开挖工程设备的产品研发、设计、制造、市场销售及售后服务等，合作单位遍布全国各地区。

回顾过去，根值于中国机械工业深厚的沃土中成长的宣宣重工，在新型顶管装备研发、电控系统智能化，投入大量工作，获得国内外使用客户一致好评，将顶管机中国造深植于我们的企业文化之中。

如今的宣宣重工正在继承与发展中阔步迈向新的征程，展望未来，我们将始终牢记"诚于服务"、"精于专业"的发展使命，永保进取之心，求真务实，继往开来。

最后，非常感谢您对宣宣重工的关注信任与支持。

总经理：
general manager 潘晨



# 资质与文化
# QUALIFICATION AND CULTURE

**◎ 核心价值 CORE VALUE:**

诚信、人本、严谨、务实、高效、创新、激情、共赢。
Integrity, humanism, cautious, realistic and high-performance, innovation, passion, win-win situation.

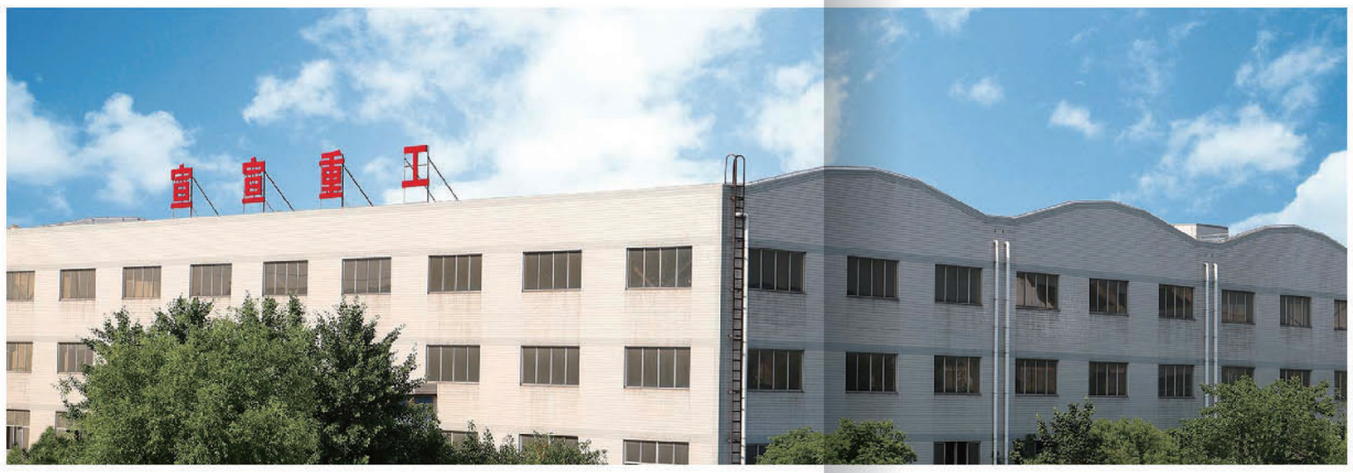
**◎经营方针 OPERATING PRINCIPLES:**

以客户为中心、以市场为导向、科学的管理、卓越的品质、完善的售后服务。
Customer-centric, Market-oriented, Scientific management, Excellent quality and Perfect after-sales service.

**DEAR FRIENDS,**

Scientific development of enterprises requires inheriting the power of innovation.
Yesterday's brilliant achievements accumulate our connotation, today's gorgeous transformation to chase our dreams.
Weiqiang Group will be its construction machinery resources effective integration, the establishment of Jiangsu Xuanxuan Heavy Machinery Co., Ltd. As a wholly-owned subsidiary of Weiqiang Group, an enterprise with a history of more than 30 years, Xuanxuan Heavy Industry Co., Ltd. is engaged in R&D, design, manufacturing, marketing, sales and after-sales service of micro-Tunnelling 、pipe jocking machine and No-Digging engineering equipment, and has cooperative units all over of the China, In the past, Xuanxuan Heavy Industry, which grew up in the rich soil of China's machinery industry, has invested a lot of work in the research and development of new pipe jacking equipment and the intelligent electric control system, and has been praised by domestic and foreign customers alike. The company deeply infuses "pipe jacking machine "--" Made in China" into our corporate culture.
Now Xuanxuan Heavy Industry is stepping into a new journey in the process of inheriting and developing.
Looking into the future, we will always bear in mind the development mission of "being sincere in service" and "being expert in profession".
We will always keep the enterprising heart, seek truth and be practical, and carry on the past and forge ahead.
Finally, thank you very much for your attention, trust and support to Xuanxuan Heavy Industry.

# 公司简介
# COMPANY PROFILE



江苏宣宣重工机械有限公司，隶属创建于1989年的伟强集团，总部位于江苏常州，与上海南京等距，交通十分便利。

“江苏宣宣重工机械有限公司”集产品研发、生产制造、市场销售及售后服务为一体，产品包括多系列顶管机，盾构机，顶管盾构配套设备。公司秉承在顶管掘进机设计领域的核心技术和丰富的施工经验，现已设计、制造出适用于各种地质条件的顶管设备---岩石顶管掘进机、泥水平衡顶管掘进机、土压平衡顶管掘进机以及附属配套设备，设备直径800毫米---4000毫米，年销售设备100多台套。

公司通过了ISO900质量认证，有一整套严格的管理生产体系，产品远销俄罗斯，泰国，阿根廷，柬埔寨，台湾等国家和地区，产品质量深受客户好评。 我司不仅设计、制造非开挖顶管设备，还积极参与顶管施工、顶管技术培训、顶管施工方案论证。热忱欢迎海内外客户莅临指导！

**专业制造非开挖工程机械设备**
**泥水平衡顶管机，土压平衡顶管机，岩石顶管机，矩形顶管机**
Professional manufacture of
non-digging engineering machinery equipment



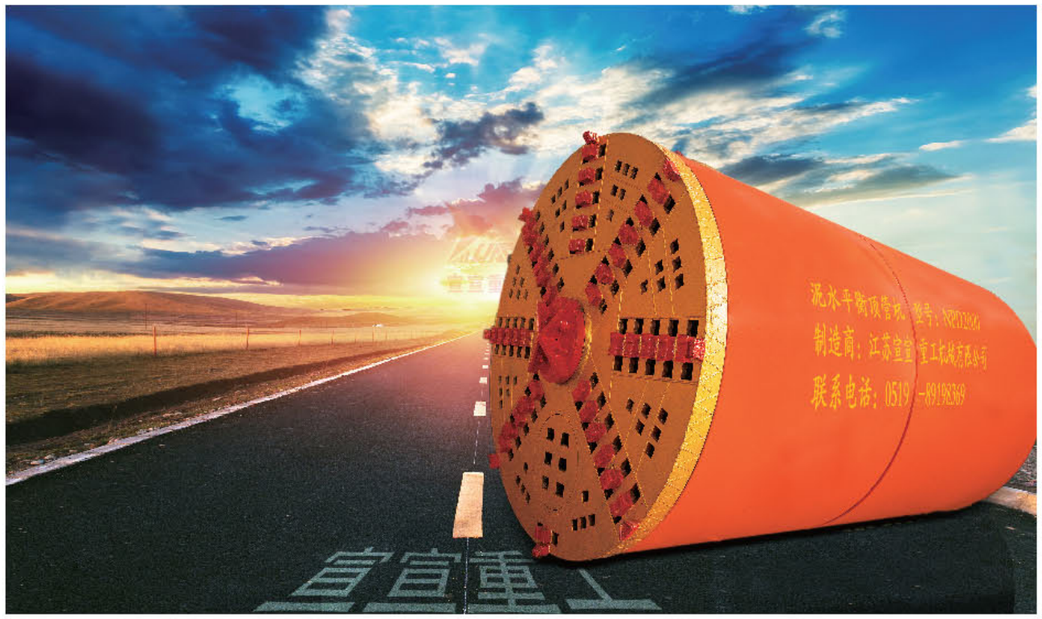
Jiangsu xuanxuan heavy machinery Co.,Ltd is a subsidiary of weiqiang group, which was founded in 1989. Our head office is located in changzhou, jiangsu, close to near Shanghai and Nanjing. transportation is very convenient.

"Jiangsu xuanxuan heavy machinery Co.,Ltd" integrates product development, manufacturing, market sales and after-sales service. its products include multiple series of pipe jacking machines, shield machines and supporting equipment for pipe jacking machine. adhering to basic technology and rich construction experience in pipe jacking machine design field, now the company has designed and manufactured pipe jacking equipment suitable for various geological conditions — rock pipe jacking machine, Surrly pipe jacking machine, the EPB pipe jacking tunneling machine and supporting equipment, the equipment diameter is 800 mm — 4000 mm, and the annual sales equipment is more than 100 sets.

The company has passed iso900 quality certification and has a complete set of strict management and production system. the products are exported to Russia, Thailand, Argentina, Cambodia, Taiwan and other countries and regions. the product quality is well received by customers. our company designs and manufactures trenchless pipe jacking equipment, but also actively participates in pipe jacking construction, pipe jacking technology training, and pipe jacking construction program demonstration. Welcome domestic and foreign customers to visit and give us guidance.

# NPD型泥水平衡顶管机系列

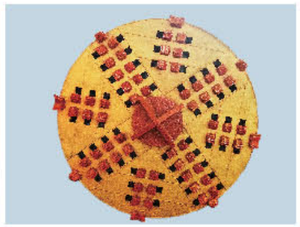
NPD series slurry balance pipe jacking machine

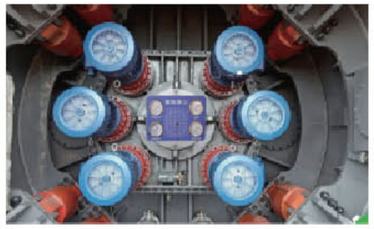



## ◎ 特点说明 Function characteristic

泥水平衡顶管机可在地下水压力较高以及土质变化范围较大的条件下使用，一般管径在Φ800mm-Φ4000mm之间。泥水平衡顶管施工对所施工顶管周围土体扰动小，易控制地面沉降，顶进速度较快，操作方便。顶管机内主轴密封可靠，使用寿命长，适合长距离顶管施工。

Slurry balance pipe jacking machine can be used under the conditions of high groundwater pressure and widely variation range of soil quality, the general pipe diameter between 800mm-4000mm.The construction of slurry balance pipe jacking has the advantages of small disturbance to the soil, easy control of ground settlement, fast jacking speed and convenient operation.The main driver seal of pipe jacking machine is reliable with long service life, suitable for long-distance pipe jacking construction.









## ◎ 技术性能与特点

## Technical performance and features

适用土质范围广，软土、粘土、砂土、砂砾土、硬土、回填土均可适用；
破碎能力强，破碎粒径大，个数多；
具有独立注水、注浆系统；
顶进速度快，顶进速度约每分钟0~200mm;
施工精度高，上、下、左、右纠偏角度达2.5°；
采用地面集中控制系统，安全、直观、方便。

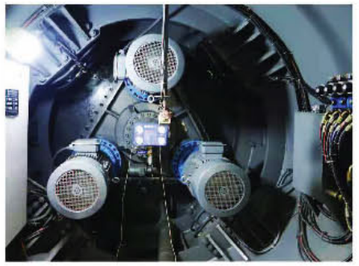
Applicable to a wide range of soil, soft soil, clay, sand, gravel soil, hard soil, backfilling soil;
Strong crushing ability, large particle size, number of broken;
It has independent injection and grouting system;
Fast jacking speed, about 0~200mm per minute;
High construction accuracy of pipe jacking, up, down, left and right steering deviation angle of 2.5°;
The centralized control system on the ground is safe, intuitive and convenient.

技术参数 Technical Specification

| 型号 Type | 外径*总长 ΦDxL(mm) Dimension | 重量 (T) Weight | 动力 (KWxSet) Power | 扭矩 (KN.m) Torque | 回转数 (r/min) RPM | 纠偏油缸 (TxSet) Steering jacks | 纠偏角度 (°) Correction Angle | 纠偏泵站 (Kw) Steering Pump Station | 机内配管 (mm) Surrly Pipe Diam. |
|---|---|---|---|---|---|---|---|---|---|
| NPD800 | 1020x3600 | 5 | 22x1 | 38 | 4.58 | 48x4 | 2.5 | 3 | 100 |
| NPD1000 | 1220x3600 | 6 | 30x1 | 45.2 | 4.58 | 48x4 | 2.5 | 3 | 100 |
| NPD1200 | 1460x3600 | 9 | 22x2 | 152.5 | 4.58 | 48x4 | 2.5 | 3 | 100 |
| NPD1350 | 1640x3600 | 10 | 22x2 | 152.5 | 2.29 | 63x4 | 2.7 | 4 | 100 |
| NPD1500 | 1820x3800 | 12.5 | 30x2 | 180.8 | 2.29 | 80x4 | 2.7 | 4 | 100 |
| NPD1650 | 2000x3800 | 16 | 30x2 | 180.8 | 2.29 | 80x4 | 2.7 | 4 | 100 |
| NPD1800 | 2180x4200 | 21 | 30x3 | 406.8 | 1.53 | 63x8 | 2.7 | 4 | 100 |
| NPD2000 | 2420x4200 | 23 | 30x3 | 406.8 | 1.53 | 80x8 | 2.7 | 7.5 | 150 |
| NPD2200 | 2660x4200 | 26 | 30x3 | 406.8 | 1.53 | 80x8 | 2.7 | 7.5 | 150 |
| NPD2400 | 2900x4500 | 36 | 30x4 | 723 | 1.15 | 120x8 | 3 | 7.5 | 150 |
| NPD2600 | 3140x4500 | 39 | 30x4 | 723 | 1.15 | 120x8 | 3 | 7.5 | 150 |
| NPD2800 | 3380x4500 | 50 | 30x6 | 1300 | 0.92 | 120x8 | 3 | 15 | 150 |
| NPD3000 | 3620x5200 | 63 | 30x6 | 1300 | 0.92 | 200x8 | 3 | 15 | 150 |
| NPD3500 | 4180x5200 | 71 | 30x8 | 1808 | 0.92 | 200x8 | 3 | 15 | 150 |
| NPD4000 | 4840x5400 | 85 | 30x8 | 2160 | 0.76 | 200x8 | 3 | 15 | 150 |

# NPD型泥水平衡二次破碎顶管机系列

NPD slurry balance pipe jacking machine



## ◎ 特点说明 Function characteristic

针对地下含有的卵石，前舱加装了二次破碎结构，由刀盘及刀具刮下的土块以及石块，进入内外圆锥破碎舱，不仅可以通过外圆破碎仓来实现二次破碎，还可以由十字臂牛腿上在旋转过程中形成的破碎空间来完成径向细破。

For underground with gravel, our pipe jacking machine excavation chamber have with cone crusher, from the cutter head excavation the clod and stones, into the crushing chamber inside and outside cone, can be broken by secondary crushing device, and can also be formed by the cross arm in the process of rotation to broken it, complete radial broken space will to minimum diameter of crushing chamber gravels and rocks.





## ◎ 技术性能与特点

Technical performance and features

刀盘采用十字臂结构，大大提高了粉质粘土的进仓速度，其中十字臂上附有高压水喷头，能有效地改善切削面的硬度，提高刀具的切削效率。

刀具材料除了本体加焊耐磨层外，耐磨层高度3-5mm，硬度HRC56以上； 合金刀片的焊接也采用了银片钎焊，大大提高了刀片的粘合强度。钎焊强度≥245MPa；

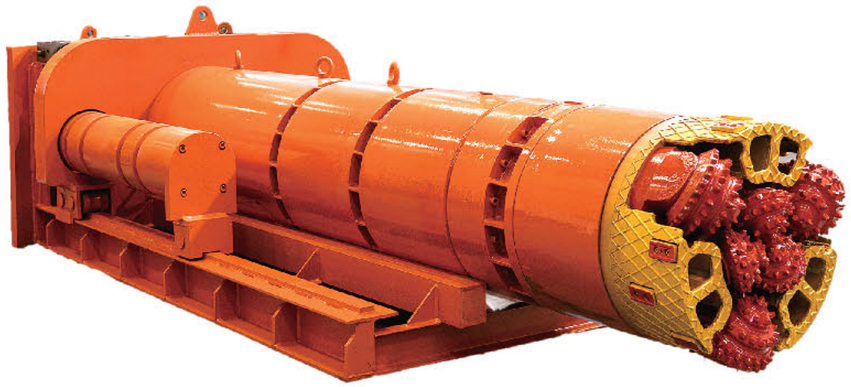
The cutter head adopt scross arm structure，greatly improves the speed into Slurry chamber，besides，the cross arm include high pressure water nozzle and improves hardness of the excavation face and the efficiency.

In addition to the body adding welding wear layer，the wear resistance layer height 3-5mm, hardness above HRC56, the tungsten carbide welding is adopt silver blade brazing and greatly improves bond strength of cutting tool, brazing strength≥245Mpa

技术参数 Technical Specification

| 型号 Type | 外径*总长 ΦDxL(mm) External Dimension | 重量 (T) Weight | 动力 (KWxSet) Power | 扭矩 (KN.m) Torque | 回转数 (r/min) RPM | 纠偏油缸 (TxSet) Steering Jacks | 纠偏角度 (°) Correction Angle | 纠偏泵站 (Kw) Steering Pump Station | 机内配管 (mm) Surrly Pipe Diam. |
|---|---|---|---|---|---|---|---|---|---|
| NPD800B | 1020x3800 | 6 | 22x1 | 38 | 4.58 | 48x4 | 2.5 | 3 | 100 |
| NPD1000B | 1220x3800 | 7 | 30x1 | 45.2 | 4.58 | 48x4 | 3 | 3 | 100 |
| NPD1200B | 1460x3800 | 9.5 | 22x2 | 152 | 2.27 | 63x4 | 2.7 | 3 | 100 |
| NPD1350B | 1640x3800 | 12 | 22x2 | 152 | 2.29 | 63x4 | 2.7 | 4 | 100 |
| NPD1500B | 1820x4100 | 16.5 | 30x2 | 238 | 1.73 | 80x4 | 2.7 | 4 | 100 |
| NPD1650B | 2000x4000 | 19 | 30x2 | 238 | 1.73 | 80x4 | 2.7 | 4 | 100 |
| NPD1800B | 2180x4400 | 24 | 30x3 | 406.8 | 1.53 | 63x8 | 2.7 | 4 | 100 |
| NPD2000B | 2420x4400 | 26 | 30x3 | 406.8 | 1.53 | 80x8 | 2.7 | 7.5 | 150 |
| NPD2200B | 2660x4400 | 30 | 30x3 | 406.8 | 1.53 | 80x8 | 2.7 | 7.5 | 150 |
| NPD2400B | 2900x4700 | 40 | 30x4 | 723 | 1.15 | 120x8 | 3 | 7.5 | 150 |
| NPD2600B | 3140x4700 | 43 | 30x4 | 723 | 1.15 | 120x8 | 3 | 7.5 | 150 |
| NPD2800B | 3380x4700 | 55 | 30x6 | 1300 | 0.92 | 120x8 | 3 | 1.5 | 150 |
| NPD3000B | 3620x5400 | 68 | 30x6 | 1300 | 0.92 | 200x8 | 3 | 15 | 150 |
| NPD3500B | 4180x5400 | 76 | 30x8 | 1808 | 0.92 | 200x8 | 3 | 15 | 150 |
| NPD4000B | 4840x5600 | 90 | 30x8 | 2160 | 0.76 | 200x8 | 3 | 15 | 150 |

# YSD微型岩石顶管机
Rock Micro Tunneling Machine





硬岩刀盘　卵砾石刀盘　掘进情况

## ◎ 特点说明 Function characteristic

新型微型岩石顶管机

主驱动系统配备强劲动力，实现Φ400~Φ600小管径岩石顶管机大扭矩破岩施工，具备强大的机内岩石二次破碎装置YSD系列微型岩石顶管机地质适应范围广，硬土层、砂土层、砾石层、中风化岩层、弱风化岩层施工，全方位顶管掘进施工。

YSD系列微型岩石顶管机，设备占地空间小，路面交通冲击小，特别适合大城市小型道路及老旧城区复杂管线施工，配合小型圆形工作井Φ2000/Φ2500，经济性佳、施工速度快，为新一代绿色环保顶管施工设备。

Micro Tunneling Machine
The main drive system is equipped with large power,
realization Φ400~Φ600 Micro Tunneling Machine large torque rock breaking construction with small diameter rock pipe jacking machine, It has powerful cone crushing device for rock in the slurry chamber,YSD Series Micro Rock Pipe Jacking Machine has a wide range of geological applications, hard soil 、 sandy soil 、gravel 、soft rock and hard rock condition. all-round pipe jacking tunneling construction

YSD Series Micro rock PipeJacking Machine, with small space occupation and little impact on road traffic, is especially suitable for the construction of small roads in big cities and complex pipelines in old urban areas, and it is also suitable for small working shaft diameter Φ2000mm/Φ2500mm, with good economy and fast construction speed, it is a new generation of green environmental pipe jacking construction equipment.





## ◎ 技术性能与特点
## Technical performance and features

1、土质适应范围广
高精度导向系统，实时方向纠偏提示，实现由普通土地质、砂砾石地质、卵石地质、中风化岩地质广泛不同的顶管施工可能性。

2、小型圆形工作井
直径Φ2000mm/Φ2500mm 圆形钢套筒工作井即可满足YSD系列微型岩石顶管机始发顶管施工,同样也可以用小型圆形工作井回收设备。

3、实现微型顶管长距离掘进作业
在施工地质条件适合的情况下，配合专用膨润土泥浆及减磨剂，YSD系列微型岩石顶管机单次顶进距离可达200 米。

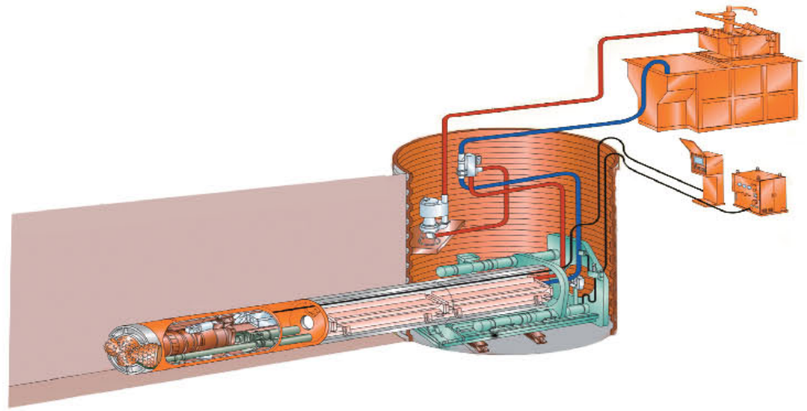
4、施工中可回收引拔设备
顶管掘进施工时，如开挖掌子面遭遇流木、漂石、钢筋无法对应之地质情况，YSD系列微型岩石顶管机配置拉力钢棒可由隧洞内回拉引拔设备。

1、Wide range of soil adaptability for construction
High precision guidance system, real-time direction correction prompt, to achieve a wide range of pipe jacking construction possibilities, from soil、sand、gravel、 hard rock geology

2、Small working shaft
Diameter Φ2000mm/Φ2500mm The round steel sleeve working shaft can meet the requirements of YSD Series Micro Rock machine for pipe jacking construction, as well as small round working shaft can be received equipment .

3、In the case of suitable construction geological conditions, with special bentonite mud and antifriction agent, the single driving distance of YSD series micro rock pipe jacking machine can reach 200m

4、Retractable equipment in pipe jacking tunnel
During the pipe jacking construction, if the excavation face encounters the geological conditions meet the driftwood, boulder and steel bar, cannot correspond to, YSD Series Micro Rock Pipe Jacking Machine is equipped with tensile steel rod, which can be pulled back and pulled out equipment in the tunnel



### 技术参数 Technical Specification

| 型号 Type | 机体外径 Shield OD (mm) | 长度 Length (mm) | 重量 Weight (t) | 动力 Power (Kw) | 扭矩 Torque (kN*m) | 转速 Speed (rpm) | 纠偏油缸 Steering Cylinder (T) | 机内液压站 Hydraulic station | 机内配管 Shield inside pipe |
|---|---|---|---|---|---|---|---|---|---|
| YSD400 | 570 | 1920 | 2.1 | 18.5*1 | 17.4 | 14 | 17*4 | 0.75kw | 80 |
| YSD500 | 695 | 2200 | 2.7 | 23.1*1 | 18.3 | 12.1 | 18*4 | 0.75kw | 80 |
| YSD600 | 810 | 2200 | 3.05 | 23.1*1 | 19.6 | 10.9 | 20*4 | 0.75kw | 80 |

# YSD型岩石顶管机系列
YSD series rock pipe jacking machine

## ◎ 特点说明 Function characteristic

岩石顶管掘进机采用重型机械传动结构设计，传动力矩大，维修人员可进入泥水仓，可以进行二次破碎，能更换刀具，传动力矩大，能在硬土层、沙土层、砾石层、岩石层中间进行掘进。能设计生产Φ1000-Φ3500mm范围内的各种规格的岩石顶管掘进机。

Rock pipe jacking machine adopts heavy mechanical transmission structure design, the transmission torque is large, maintenance personnel can freely enter the slurry chamber from face access door, and with cone crusher, can change the cutter disc during the excavation, the transmission torque is large, can jack in the hard soil layer, sand layer, gravel , rock . can design and manufacture Φ1000-Φ3500 mm with various specifications of rock pipe jacking machine.

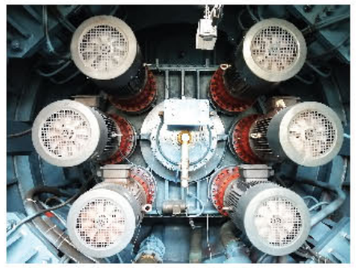




## ◎ 技术性能与特点
## Technical performance and features

全断面土压力显示系统；
刀盘面板与主轴中心两路各自独立的注高压水系统；
顶管机后方配有主推装置和防偏转装置；
采用触摸屏、PLC、变频器等先进的仪表和控制系统；
触摸屏显示、记录的数据可以连接到用户办公室的监控器上。

Full section earth pressure display system;
Cutter head and main driver shaft have two independent injection system;
The rear of the pipe machine is equipped with a main jacking unit and safety device to avoid head roll;
Advanced instruments and control systems, such as touch screen, PLC and frequency converter, etc;
The touchscreen display, recorded data can be connected to the user's office monitor.



**技术参数 Technical Specification**

| 型号 Type | 外形尺寸 ⌀DxL(mm) Outline Demension | 动力 (KWxSet) Power | 扭矩 (KN.m) Torque | 回转数 (r/min) RPM | 纠偏油缸 (TxSet) Steering jacks | 机内配管 (mm) Surrly Pipe Diam. |
|---|---|---|---|---|---|---|
| YSD800 | 1020x4000 | 2x11 | 56 | 0-3.75 | 48x4 | 100 |
| YSD1000 | 1220x4000 | 3x15 | 134.2 | 0-2.6 | 48x4 | 100 |
| YSD1200 | 1460x4500 | 2x30 | 152 | 0-2.34 | 80x4 | 100 |
| YSD1350 | 1640x4600 | 2x30 | 238 | 0-1.8 | 80x4 | 100 |
| YSD1500 | 1820x4800 | 2x37 | 275 | 0-2 | 80x4 | 100 |
| YSD1650 | 2000x5000 | 2x37 | 275 | 0-2 | 80x4 | 100 |
| YSD1800 | 2180x5200 | 4x30 | 406.8 | 0-1.56 | 80x8 | 150 |
| YSD2000 | 2420x5200 | 4x30 | 406.8 | 0-1.56 | 80x8 | 150 |
| YSD2200 | 2660x5400 | 4x37 | 647 | 0-1.75 | 100x8 | 150 |
| YSD2400 | 2900x5400 | 4x37 | 647 | 0-1.75 | 100x8 | 150 |
| YSD2600 | 3140x5500 | 6x30 | 813.6 | 0-1.56 | 120x8 | 150 |
| YSD2800 | 3350x5700 | 6x30 | 813.6 | 0-1.56 | 200x8 | 150 |
| YSD3000 | 3600x5700 | 6x37 | 1320 | 0-1.27 | 200x8 | 150 |

# EPB型土压平衡顶管机系列

EPB series earth pressure balance pipe pushing jackihg machine

## ◎ 特点说明 Function characteristic

单刀盘土压平衡顶管机在软土、硬土中都可采用，是全土质的顶管掘进机。复土深度要求不高，通过合理的注浆方式，可改良土体，保持控制面稳定及地面沉降。变形极小，弃土的运输和处理方便、简单、作业环境好，操作安全、方便，适合大口径、长距离顶管。

The single-cutter head earth pressure balance pipe jacking machine can be used in soft and hard soil, which is a full-scale pipe jacking machine. The depth of covering soil is not high, Through reasonable grouting, the soil can be improved to maintain the stable surface and land subsidence. The deformation is very small, the transportation and handling of the spoil is convenient, simple, the working environment is good, the operation is safe and convenient, and it is suitable for large-diameter, long-distance pipe jacking.

## ◎ 技术性能与特点

## Technical performance and features

适用土质范围广：不仅适用于各种土质，而且适用于中粗砂、强风化、中风化砂岩；

采用低速大扭矩传动方式，刀盘切削力度较高，过载系数能达到3倍以上；

有独立、完善的土体注水、注浆系统，可对挖掘面土体进行改良，从而扩大适用范围；

施工地面小覆土层最小仅为管径的1.5倍；

采用螺旋输送机出土，出土高度高，粒径大；

全端面切削，开口率达65%，土压力更切合实际。

Wide range application : It is not only suitable for all kinds of soil, but also suitable for medium coarse sand, soft to medium sandstone.

Low-speed and high-torque transmission mode, the cutting force of the cutter head is high, and the overload coefficient can reach more than 3 times.

There is an independent and perfect soil water grouting system, which can be used to modify the excavation surface.

The ground coverage is only need 1.5 times of the pipe diameter.

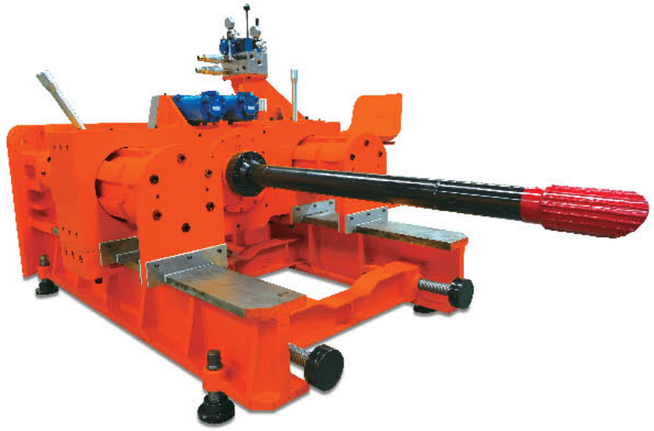
by screw conveyor, highly excavated with large particle size.

Full-face cutting, the opening rate is 65%, and the earth pressure is more realistic.

**技术参数 Technical Specification**

| 型号 Type | 外形尺寸 ø DxL(mm) Outline Demension | 动力 (KWxSet) Power | 扭矩 (KN.m) Torque | 回转数 (r/min) RPM | 纠偏油缸 (TxSet) Steering jacks | 机内配管 (mm) Surrly Pipe Diam. |
|---|---|---|---|---|---|---|
| EPB1500 | 1820x4800 | 2x37 | 275 | 0-2 | 80x4 | 100 |
| EPB1650 | 2000x5000 | 2x37 | 275 | 0-2 | 80x4 | 100 |
| EPB1800 | 2180x5200 | 4x30 | 406.8 | 0-1.56 | 80x8 | 150 |
| EPB2000 | 2420x5200 | 4x30 | 406.8 | 0-1.56 | 80x8 | 150 |
| EPB2200 | 2660x5400 | 4x37 | 647 | 0-1.75 | 80x8 | 150 |
| EPB2400 | 2900x5400 | 4x37 | 647 | 0-1.75 | 100x8 | 150 |
| EPB2600 | 3140x5500 | 6x30 | 813.6 | 0-1.56 | 120x8 | 150 |
| EPB2800 | 3350x5700 | 6x30 | 813.6 | 0-1.56 | 200x8 | 150 |
| EPB3000 | 3600x5700 | 6x37 | 1320 | 0-1.27 | 200x8 | 150 |

# 螺旋顶管机
## Auger boring machine



螺旋顶管机适用于小管径Φ300、Φ400、Φ500、Φ600污水管道、雨污分流管道及热力管道的套管等、钢性和半钢性管道的铺设，该设备体积小，可在直径2500mm的圆形工作井内施工。

Auger boring machine is suitable for the laying of rainwater pipeline and heating pipeline of small diameter Φ300, Φ400, Φ500, Φ600 sewage pipes, rain and sewage diversion pipes. It works well inside a round shaft of diamter 2500mm.

### 技术参数 Technical Specification

| 名称Name | | 单位 Unit | 参数值Parameter |
|---|---|---|---|
| 顶进装置 Jacking device | 外形尺寸 Outline dimension | mm | 2330x1550x1950 |
| | 油缸最大顶力 Maximum thrust force of jack | KN | 2000(2x1000) |
| | 油缸最大拉力 Maximum pullback force of jack | KN | 1000(2x500) |
| | 油缸行程 stroke | mm | 650-1300 |
| | 推进最快速度 Maximum jacking speed | mm/min | 1000 |
| 旋转装置 Rotating device | 导向扭矩 torque | N·m | 11500 |
| | 最大转速 Maximum speed | r/min | 24 |
| | 钻杆规格 Pilot Guide rod specification | mm | 114 |
| 管材规格 Pipe specification | | mm | DN300/DN400/DN500/DN600 |
| 工作井直径 Shaft diameter | | mm | 2600 |
| 重量 Weight | | kg | 2850 |

| 施工方式 Construction Methods | 一次工法 Step 1 | 二次工法 Step 2 | 三次工法 Step 3 |
|---|---|---|---|
| 切削方式 Cutting method | 导向杆钻头挤压式 Guide rod type | 螺旋套管挤压扩径式 Auger casing extrusion expansion type | 顶管机切削 Pipe jacking machine cutting |
| 排土方式 Dumping methods | 挤压不排土 Squeeze without draining | 挤压不排土Squeeze without draining | 螺旋出土 Spiral unearthed |
| 测量方式 Measure methods | 激光经纬仪与显示屏 Laser theodolite and display screen | | |
| 偏移修正方式 Offset correction methods | 导向钻头旋转修正 Directional drill rotation correction | | |
| 适用管材 Applicable pipe | 球墨铸铁管、钢筋混凝土管、玻璃钢夹砂管 Nodular cast iron pipe, reinforced concrete pipe, glass fiber reinforced plastic pipe with sand | | |
| 适用管径 Applicable diameter | Φ300、Φ400、Φ500、Φ600 | | |
| 适用土质 Applicable soil | 软土、粘土、沙土、砂砾土、硬土、回填土 Soft soil, clay, sand, gravel soil, hard soil, backfill | | |
| N质（标贯试验锤击次数） N quality (number of hammer strokes in standard penetration test) | 0-35 | | |
| 石头比例 Stone ratio | <20% | | |
| 推进距离 Pipe push distance | 80米左右，根据土质变化会有所不同 About 80, differences based on different soil | | |





# 螺旋土压式顶管机
## Auger pipe jacking machine

### ◎ 特点说明 Function characteristic

螺旋土压式顶管机由液压传动装置进行驱动，无任何电器元件，工作稳定可靠。直径相近的管材可选用一个动力源，多个壳体互换；承插口可更换，实现一机多用，大大降低了经济成本；土压式顶管机的直径还可以根据客户管材实际尺寸进行定制。

The Auger pipe jacking machines main driven by a hydraulic transmission device, without any electrical components, and works stably and reliably. A power source can be used for pipes with similar diameters, and multiple shells can be interchanged; Interface of different pipe diameter can be replaced to achieve multiple uses of one machine, which greatly reduces economic costs; The diameter of the Auger pipe jacking machine can also be produced according to the actual size of the pipe of the client.

### 技术参数 Technical Specification

| 型号 Type | 机型 Model | 管材直径 Pipe diameter | 机头外形尺寸 Auger machine dimension | 刀盘扭矩 Torque of cutter head | 刀盘转速 Cutter speed | 进泥扭矩 Screw conveyer torque | 排泥转速 Rotating speed of Auger | 油缸推力 Cylinder thrust |
|---|---|---|---|---|---|---|---|---|
| 1 | BY-300 | DN300 | ϕ390X1100 | - | - | 6500 | 30 | 2000KN |
| 2 | BY-400 | DN400 | ϕ570X1220 | 13000 | 15 | 6500 | 30 | 2000KN |
| 3 | BY-500 | DN500 | ϕ710X1220 | 13000 | 15 | 6500 | 30 | 2000KN |
| 4 | BY-600 | DN600 | ϕ730X1225 | 13000 | 15 | 6500 | 30 | 2000KN |

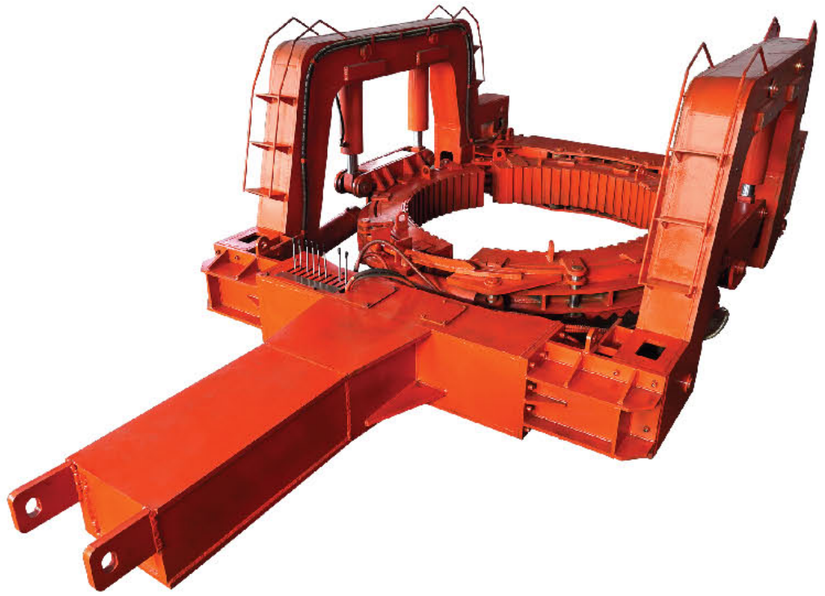
# 液压动力系统
Hydraulic power system

| 技术参数 Technical Specification | | |
|---|---|---|
| 名称Name | 单位Unit | 参数值Parameter |
| 外形尺寸 Outline dimension | mm | 1770x1370x1880 |
| 系统最高压力 System working pressure | Mpa | 31.5 |
| 推进泵组最大流量 Main jack pump maixmum flow | L/min | 60 |
| 电机功率 Motor power | kw | 22 |
| 旋转泵组最大流量 Rotation pump maximum flow | L/min | 95 |
| 电机功率（变频） Frequency conversion motor power | kw | 30 |
| 油箱容积 Oil tank capacity | L | 1000 |
| 冷却方式 Type of cooling | | 风冷 |
| 重量 Weight | kg | 1320 |





# 摇管机
Casing oscillator



| 技术参数 Technical Specification | | |
|---|---|---|
| 名称 Name | 2590摇管机参数 Oscillator Spec. | 3590摇管机参数 Oscillator Spec. |
| 最大沉井直径 Diameter of caisson | 2590mm | 3590mm |
| 机身宽度 Width | 3300mm | 4560mm |
| 机身长度 Length | 6000mm | 7000mm |
| 机身高度 Height | 1800mm | 1800mm |
| 升降高度 Lifting height | 420mm | 300mm |
| 下压力 Down force | 2520KN | 3960KN |
| 提升力 Lifting force | 1730KN | 2410KN |
| 夹紧力 Clamping force | 630KN | 810KN |
| 扭转力 Torsion force | 1360KN | 1910KN |
| 转角 Angle | 10° | 10° |
| 工作压力 Work pressure | 31.5Mpa | 31.5Mpa |
| 总重量 Total weight | 18t | 25t |

# 主要配套设备
Main equipment

液压泵站 Hydraulic power unit(HPU)

| 技术参数 Technical Specification | | | | |
|---|---|---|---|---|
| 型号 Type | 容积(L) | 压力(Mpa) | 排量(ML/r) | 功率(Kw) |
| | Volume | Pressure | Displacement | Power |
| ZDBZ-25-S | 960 | 31.5 | 2x25 | 2x15 |
| ZDBZ-25/40 | 1800 | 31.5 | 1x25+1x40 | 1x15+2x22 |
| ZDBZ-40-S | 2500 | 31.5 | 2x40 | 2x22 |

# 主顶设备系列
Main jacking system

主顶油缸架 Jacking frame

主顶油缸 Jacking cylinder



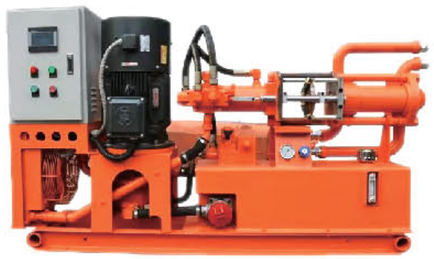


# 电控配套设备
Electric and control supporting equipment

控制操作台 Control panel

配电柜 Electric cabinet

## 注浆泵系列
Grouting pump series



| 技术参数 Technical Specification | | | | | | |
|---|---|---|---|---|---|---|
| 型号 Type | 电机功率 (Kw) | 排量 (L/min) | 压力 (Mpa) | 吸浆管 (mm) | 出浆管 (mm) | 重量 (Kg) |
| | Power | flow | Pressure | Suction Pipe | Outlet Pipe | Weight |
| KBYT60 | 11 | 60 | 7 | 76 | 51 | 1000 |

## 排泥泵系列
Slurry discharge pump series

| 技术参数 Technical Specification | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 型号 Type | 流量($m^3$/H) | 扬程(M) | 功率(Kw) | 排泥管径(mm) | 外形尺寸(Inch) | 进口(Inch) | 出口(Inch) | 重量(Kg) |
| | Flow | Lift | Power | Slurry Discharge Pipe Diameter | Outline Dimension | Inlet | Outlet | Weight |
| 6PNDMS-280-22 | 200 | 26 | 22 | 102~133 | 4~6 | 4 | 4 | 450 |
| 6PNDMS-300-30 | 200 | 30 | 30 | 102~133 | 4~6 | 4 | 4 | 380 |





## 配套附件
Accessories

操作房Operating room

泥浆池 Slurry tank

## 进水泵系列
Slurry charge pump series

| 技术参数 Technical Specification | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 型号 Type | 流量($m^3$/H) | 扬程(M) | 功率(Kw) | 管径(mm) | 外形尺寸(Inch) | 进口(Inch) | 出口(Inch) | 重量(Kg) |
| | Flow | Lift | Power | Pipe Diameter | Outline Dimension | Inlet | Outlet | Weight |
| 6PNDMS-280-7.5 | 100 | 16 | 7.5 | 102~133 | 2.5~4 | 4 | 4 | 150 |
| 6PNDMS-300-15 | 150 | 20 | 15 | 102~133 | 3~4 | 4 | 4 | 260 |

## 配套附件 Accessories

拌浆机 Mixer tank

U形顶铁 U Thrust Ring

导轨架 Jacking rail

后靠背 Back board

洞口止水圈 Sealing ring

环形顶铁 Jacking ring

中继间( IJS) Intermediate Jacking Station

智能光靶 Intelligent target

激光经纬仪 Laser theodolite

碟阀 Butterfly valve

水平仪 Level Instrument

## 配套附件 Accessories

视频控制电缆 Video control cable

动力电缆 Power cable

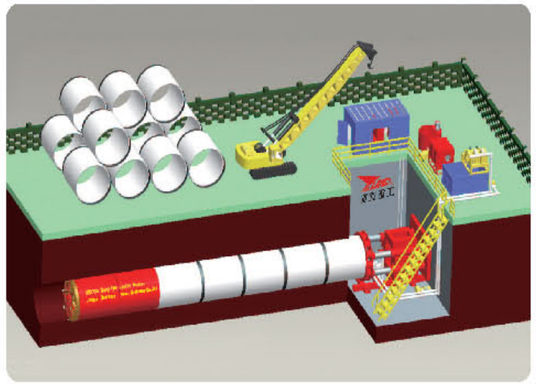
注浆管 Grouting pipes

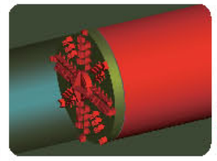
高压油管 High-pressure oil pipes

卡箍 Clamp

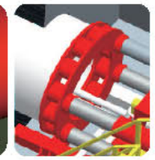
进排泥管 Mud inlet / Outlet pipes

## 顶管机施工示意图 Construction diagram of pipe jacking machine



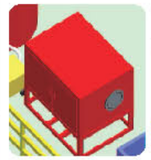


顶管机 Pipe jacking machine

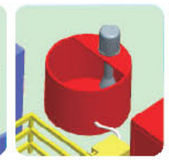


反环 Jacking ring/ 油缸 Jacking cylinder

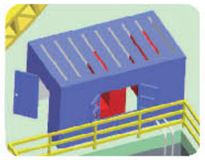
注浆机 grouting pump



液压站 Hydraulic Power Unit(HPU)



拌浆机 Mixer tank



操作室 Operation room

# 工程案例
Construction case

## 岩石掘进机案例

**长沙市政工程有限公司**
施工地点：湖南长沙
设备型号：YSD2000
管材：钢筋混凝土管材
土质：全断面岩层
岩层硬度：60Mpa左右

**Changsha Municipa Co.,Ltd.**
Construction Location：Changsha, Hunan
Product Model：YSD2000
Pipe：Reinforced concrete pipe
Soil Condition：Full section rock
Rock Hardness：About 60Mpa

**中铁一局集团有限公司**
施工地点：广西梧州
设备型号：YSD1350
管材：球墨铸铁管
土质：红砂岩加粘泥
单顶：距离560米

**China Railway First Group Co.,Ltd.**
Construction Location：Wuzhou, Guangxi
Product Model：YSD1350
Pipe：Ductile iron pipe
Soil Condition：Red sandstone with clay
Single Drive：560m





# 工程案例
Construction case

## 岩石掘进机案例

**中国安能建设集团**
施工地点：湖南株洲
设备型号：YSD1500
管材：钢筋混凝土管材
土质：花岗岩加土

**China Aneng Construction Group**
Construction Location：Zhuzhou, Hunan
Product Model：YSD1500
Pipe：Reinforced concrete pipe
Soil Condition：Granite and soil

**广西市政工程有限公司**
施工地点：广西柳州
设备型号：YSD1200
管材：钢筋混凝土管材
土质：花岗岩硬度90 Mpa左右

**Guangxi Municipal Engineering Group Co.,Ltd.**
Construction Location：Liuzhou, Guangxi
Product Model：YSD1200
Pipe：Reinforced concrete pipe
Soil Condition：Granite hardness about 90 Mpa

# 工程案例
Construction case

## 岩石机掘进机案例

### 青岛市政集团工程

施工地点：青岛
设备型号：YSD2800
管材：钢筋混凝土管材
土质：泥岩 红砂岩 单顶距离1130米

### Qingdao Municipal Engineering Group

Construction Location：Qingdao
Product Model：YSD2800
Pipe：Reinforced concrete pipe
Soil Condition：Mudstone, red sandstone, single drive distance 1,130m





# 工程案例
Construction case

## 岩石机掘进机案例

### 中国水利水电十四局

施工地点：东莞
设备型号：YSD1800
管材：钢筋混凝土管材
土质：花岗岩

### The 14th Water Conservancy And Hydropower Bureau Of China

Construction Location：Dongguan
Product Model：YSD1800
Pipe：Reinforced concrete pipe
Soil Condition：Granite

# 工程案例
Construction case

## 泥水平衡机施工案例

**中交第三航务工程局有限公司**
施工地点：连云港
设备型号：NPD1500
管材：钢管
土质：泥土加砂 单顶距离1100米

**CCCC Third Harbor Engineering Co. Ltd.**
Construction Location：Lianyungang
Product Model: YSD1500
Pipe：Steel Pipe
Soil Condition：Clay and sand single drive distance 1100m





# 工程案例
Construction case

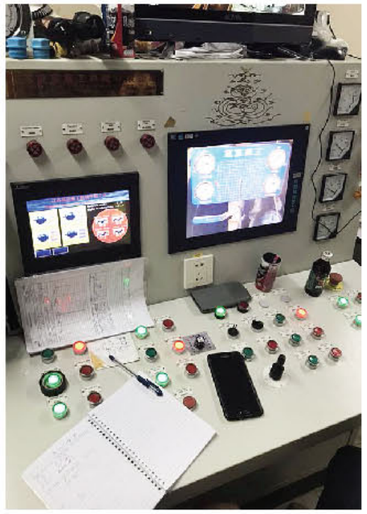
## 泥水平衡机施工案例

**淮安市政**
施工地点：淮安
设备型号：YSD1200
管材：DN1420钢管
土质：砂加坂结石 单顶距离1230米

**Huai'an Municipal Co.,Ltd.**
Construction Location：Huai'an
Product Model: YSD1200
Pipe：DN1420 steel pipe
Soil Condition：Sanka-ban stone, single drive distance 1230m

# 工程案例
Construction case

## 泥水平衡施工案例



**泰国项目**
施工地点：泰国
型号：NPD1500
管材：2.5M水泥管
土质：淤泥

**Thailand Project**
Jobsite: Thailand
Model: NPD1500
Pipe: 2.5M cement pipe
Soil Condition: silt

**河北华北石油工程建筑有限公司**
施工地点：河北
设备型号：NPD1800
管材：钢筋混凝土管材
土质：黄土，硬土

**Hebei Huabei Petroleum Engineering Construction Co. ,Ltd.**
Jobsite：Hebei
Machine Model：NPD1800
Pipe：RCP
Soil Condition：Loess, hard soil



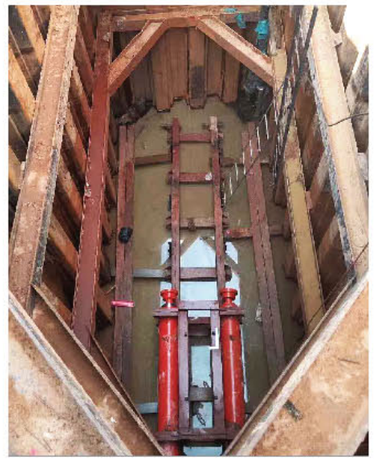


# 工程案例
Construction case

## 泥水平衡施工案例

**北京城建国外事业部**
施工地点：柬埔寨
设备型号：NPD1000B
管材：钢管
土质：鹅卵石加软粘泥

**Beijing Urban Construction Group Co.,Ltd.**
Construction Location：Cambodia
Product Model: NPD1000B
Pipe：Steel pipe
Soil Condition：Pebbles, soft clay



**陕西龙强建设有限公司**
施工地点：西安
型号：EPB2000
管材：水泥管
土质：淤泥

**Shanxi Longqiang Construction Co., Ltd.**
Jobsite: Xi'an
Model: EPB2000
Pipe: Cement pipe
Soil Condition：Silt

# 工程案例
Construction case

## 泥水平衡施工案例

**北京城建集团有限公司**
施工地点：内蒙古呼和浩特
设备型号：NPD3000
管材：钢筋混凝土管材
土质：粉质砂土 粗砂含量大

**Beijing Urban Construction Group Co.,Ltd.**
Construction Location：Hohhot, Inner Mongolia
Product Model: NPD3000
Pipe：Reinforced concrete pipe
Soil Condition：Silty sand with large content of coarse sand

**中国水利水电第四工程局有限公司**
施工地点：广州
型号：NPD2200
管材：钢筋混凝土管材
土质：大量回填土和垃圾

**Sinohydro Engineering Bureau 4 Co.,Ltd.**
Construction Location：Guangzhou,
Product Model: NPD2200
Pipe：Reinforced concrete pipe
Soil Condition：Large amounts of backfill soil and garbage





# 工程案例
Construction case

## 螺旋土压施工案例

**荆州市政**
施工地点： 湖北荆州
型号： 摇管机YG2590
做井管材： 钢护桶井

**Jingzhou Municipal Co.,Ltd.**
Construction Location：Jingzhou, Hubei
Product Model：Oslator YG2590
Pipe：Steel barrel

**荆州市政**
施工地点 湖北荆州
型号： BY500
管材：钢筋混凝土管材
土质：淤泥 流沙

**Jingzhou Municipal Co.,Ltd.**
Construction Location：Jingzhou, Hubei
Product Model：BY500
Pipe：Reinforced concrete pipe
Soil Condition：Silt, quicksand

# 工程案例
Construction case

## 泥水平衡机施工案例

### 湖北地建集团神龙市政

施工地点：湖北武汉
设备型号：NPD3000
管材：钢筋混凝土管材
土质： 黄土 硬土 单顶620米

### Hubei Construction Group Shenlong Municipal Administration

Construction location: Wuhan city, Hubei province
Product model: NPD 3000
Pipe: Steel barrel, reinforced concrete pipe
Soil condition: loess, hard soil,
pipe jacking length 620m



# 工程案例
Construction case

## 泥水平衡施工案例

### 福建纳川水务

施工地点：徐州
设备型号：摇管机YG3590
微顶BY500
管材：钢护桶井 钢筋混凝土管
土质： 黄土 硬土

### Fujian Nachuan Water

Construction location: Xuzhou city
Product model: Casing oscillator YG3590,
micro tunneling machine BY500
Pipe: Steel barrel,
–reinforced concrete pipe
Soil condition: loess, hard soil

### 上海特辰市政

施工地点：上海
设备型号：摇管机YG2590 微顶BY500
管材：钢护桶井 钢筋混凝土管
土质： 黄土 硬土

### Shanghai Techen Municipal Co.,Ltd.

Construction location: Shanghai city
Product model: Casing oscillator YG3590,
micro tunneling machine BY500
Pipe: Steel barrel, reinforced concrete pipe
Soil condition: loess, hard soil

# 企业文化
## Enterprise culture

# 服务承诺
## Service guarantee

在中国，宣宣重工顶管机的设计和制造水平已经得到了广大业主的信赖，追求卓越的品质和全方位的服务是我们不懈努力的目标。宣宣重工将提供全面的技术咨询、服务咨询及业务咨询。

In China, Xuanxuan pipe jacking machine design and manufacturing level get the trust of the customers, The pursuit of excellent quality and attentive service is our unremitting goal, Xuanxuan Heavy Machinery will always provide technical advice and comprehensive services and business consulting.

### 安装 Installation
指导业主安装调试
Assist customers to install and debugging

### 培训 Training
对业主操作人员进行现场培训
Conduct on-site training for customers

### 周到 Thoughtful
售后服务及时、周到
Timely and thoughtful after-sales service

### 放心 Rest Assurance
终身提供优质的易损件及备品备件
Provide superior quality spare parts for ever