



AUGER BORING MACHINE SPZ SERIES

SPZ系列水平螺旋钻机

- ZTSPZ-600A
- ZTSPZ-800A
- ZTSPZ-1000A

ABOUT US



关于我们

致力于非开挖水平定向钻 研发与制造

COMMITTED TO TRENCHLESS HORIZONTAL DIRECTIONAL DRILLING
DEVELOPMENT AND MANUFACTURING

专注非开挖水平定向钻领域 **26** 年

CORPORATE MISSION: MAKE UNDERGROUND PIPELINE LAYING EASIER.

钻通 (Drillto) 品牌创立于2000年, 是国家级专精特新小巨人企业, 由国内较早从事非开挖研究的一批专家组成, 专注研发和生产水平定向钻机及配套钻杆钻具, 为客户提供一站式服务。目前出口41个国家, 累计申请专利258项 (授权发明专利38项)。26年来钻通在深圳、无锡、上海、惠州设立工厂, 公司自2010年起陆续被评为国家高新技术企业, 江苏省和广东省工程技术研究中心, 荣获“国土资源科学技术一等奖”, 通过CE认证、SGS认证和ISO多体系认证, 通过安全标准化、五星上云、知识产权体系贯标, 和江苏省绿色工厂等多项重要认定。

Founded in 2000, Drillto is a national-level "Little Giant" enterprise specializing in sophisticated and innovative technologies. The company was established by a group of experts who were among the earliest pioneers in trenchless technology in China. It focuses on the R&D and manufacturing of horizontal directional drilling (HDD) machines, drill rods and tools, providing customers with one-stop solutions. To date, Drillto's products have been exported to 41 countries, with a total of 258 patents applied for, including 38 granted invention patents. Over the past 26 years, Drillto has set up manufacturing facilities in Shenzhen, Wuxi, Shanghai and Huizhou. Since 2010, the company has been successively recognized as a National High-Tech Enterprise, an Engineering and Technology Research Center in both Jiangsu Province and Guangdong Province. It has received the First Prize of the National Land and Resources Science and Technology Award. Drillto has obtained CE, SGS and multiple ISO certifications. The company has also passed several important assessments, including safety standardization, five-star cloud certification, intellectual property management system certification, and has been accredited as a Green Factory in Jiangsu Province.

钻通26年来专注于水平定向钻机及配套钻杆钻具领域。集团的总非开挖产品款式高达248款, 擅长根据客户工厂需求定制化开发。目前产品涵盖: ZT水平定向钻机系列, 机型从6吨到1200吨, AT岩石钻机系列从20吨到150吨, ZTSPZ水平螺旋钻机系列从110吨到300吨, ZTTG推管机系列从300吨到750吨, ZTJN坑道钻机系列从6吨到80吨, 同时配套生产整体锻造钻杆、钻具和提供泥浆设备。

For 26 years, Drillto has focused exclusively on horizontal directional drilling rigs and supporting drill pipes and tools. Company has been developed a total of 248 HDD product models and excels in customization according to clients' project requirements. It also produces integrally forged drill pipes, drilling tools, and supplies mud recycling equipment.

Its current product range includes:

ZT Series Horizontal Directional Drilling Rigs: 6 – 1200 tons

AT Series Rock Drilling Rigs: 20 – 150 tons

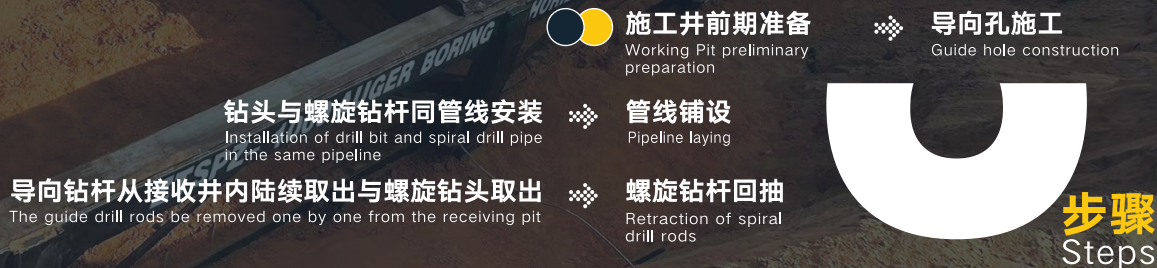
ZTSPZ Series Horizontal Auger Drilling Rigs: 110 – 300 tons

ZTTG Series Pipe Jacking Machines: 300 – 750 tons

ZTJN Series Tunnel Drilling Rigs: 6 – 80 tons

WORKING PRINCIPLE OF AUGER BORING MACHINE

水平螺旋钻机系列 工作原理



ZT系列水平螺旋钻机产品介绍

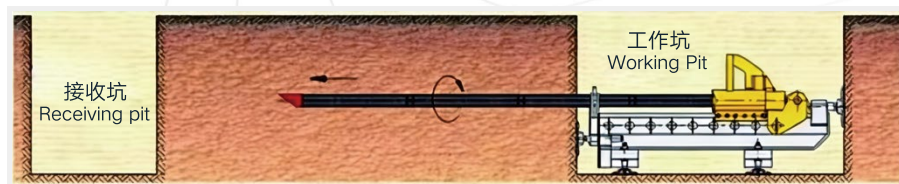
Product Introduction of ZTSPZ Series Auger Boring Machine

ZTSPZ系列水平定向螺旋钻机，可实现扩孔与顶管同步进行，施工精度高，不会引起施工区域沉降，分别有ZTSPZ-600A，ZTSPZ-800A，ZTSPZ-1000A三款机型；主机为框架式，动力头与给进机构安装于机架导轨上，动力头采用整体封闭齿轮箱体，扭矩大；给进机构采用油缸推进与回拉，简单可靠；钻具分为导向钻杆，螺旋钻杆；导向仪器为LED激光导向，精度高，反馈速度快。

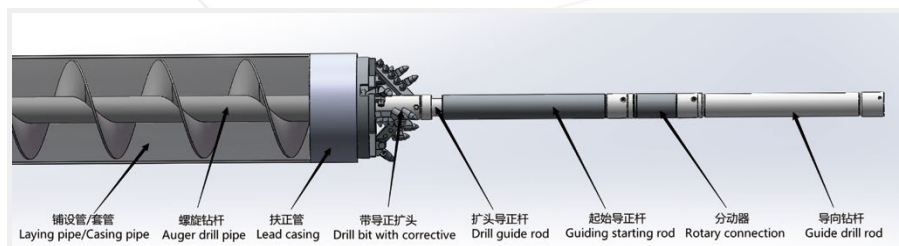
The ZTSPZ series horizontal directional spiral drilling rig can achieve synchronous drilling and pipe jacking, with high construction accuracy and no settlement in the construction area. There are three models: ZTSPZ-600A, ZTSPZ-800A, and ZTSPZ-1000A; The host is frame type, and the power head and feeding mechanism are installed on the rack guide rail. The power head adopts an integral enclosed gearbox with high torque; The feeding mechanism adopts hydraulic cylinder propulsion and retraction, which is simple and reliable; Drilling tools are divided into directional drill rods and spiral drill rods; The guiding instrument is LED laser guided, with high accuracy and fast feedback speed.

工作示意图：Work diagram

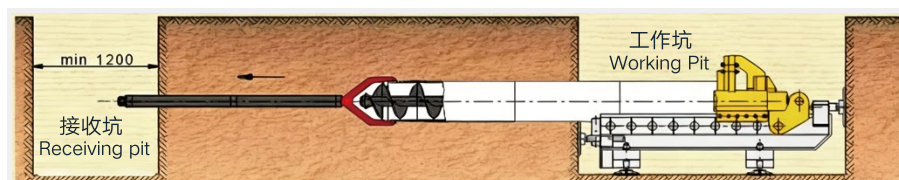
导向示意图： Guiding diagram



连接示意图： Connection diagram



管线铺设示意图： Pipeline laying schematic diagram



ZTSPZ-600A PRODUCT INTRODUCTION



推盘 Pushing Plate



控制阀组 and手柄
Control Valve Combination Handle



动力站 Power Station



钻具 Drilling Rig

主要技术参数 Main Technical Parameters of ZTSPZ-600A

动力	Diesel Engine Power: 153kW	中心高	Axial Height:	655mm
最大扭矩	Max. Torque: 22000N.m	最大钻孔直径	Max. Drill Diameter:	710mm
输出转速	Spindle Speed: 0-35-70rpm	主机外形尺寸	Basic Frame(L*W*H):	2300*1700*1080mm
系统压力	Operating Pressure: 31MPa	动力站外形尺寸	Power Size(L*W*H):	2350*1980*1740mm
最大推进力	Max. Thrust Force: 1100kN	主机重量	Weight:	3.7T
推进行程	Stroke Unit: 400mm	动力站重量	Weight:	3.97T

ZTSPZ-800A PRODUCT INTRODUCTION



推盘 Pushing Plate



导轨钻架
Guide Rail Drilling Frame



动力站 Power Station



钻具 Drilling Rig

主要技术参数 Main Technical Parameters of ZTSPZ-800A

动力	Diesel Engine Power: 179kW	中心高	Axial Height:	800mm
最大扭矩	Max. Torque: 40000N.m	最大钻孔直径	Max. Drill Diameter:	1020mm
输出转速	Spindle Speed: 0-40-90rpm	主机外形尺寸	Basic Frame(L*W*H):	5000*2000*1400mm
系统压力	Operating Pressure: 31MPa	动力站外形尺寸	Power Size(L*W*H):	2760*1800*2100mm
最大推进力	Max. Thrust Force: 2000kN	主机重量	Weight:	8.5T
推进行程	Stroke Unit: 550mm	动力站重量	Weight:	3.97T

ZTSPZ-1000A PRODUCT INTRODUCTION



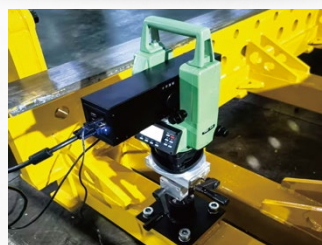
 推盘 Pushing Plate



 延长钻架
Extended Drilling Frame



 动力站 Power Station



 LED导向系统
LED Guiding System

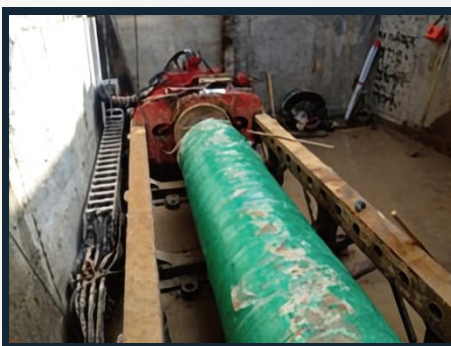
主要技术参数 Main Technical Parameters of ZTSPZ-1000A

动力	Diesel Engine Power: 194kW	中心高	Axial Height:	1000mm
最大扭矩	Max. Torque: 60000N.m	最大钻孔直径	Max. Drill Diameter:	1450mm
输出转速	Spindle Speed: 0-30-80rpm	主机外形尺寸	Basic Frame(L*W*H):	6100*2200*1600mm
系统压力	Operating Pressure: 31MPa	动力站外形尺寸	Power Size(L*W*H):	2760*1800*2100mm
最大推进力	Max. Thrust Force: 3000kN	主机重量	Weight:	9.3T
推进行程	Stroke Unit: 650mm	动力站重量	Weight:	3.97T

CONSTRUCTION CASE

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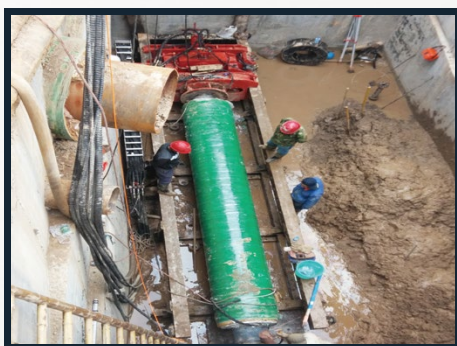
●● 施工案例一： 中国西安高新区 Construction Case 1: Xi'an, High tech Zone, China



热力管道， $\Phi 400\text{mm}$ 钢管，长40米，施工60小时，入土点和出土点上下偏差2cm，左右偏差1.5cm。

Thermal pipeline: $\Phi 400\text{mm}$ steel pipe, 40 meters in length. Construction time: 60 hours. The vertical deviation between the enter point and the exit point is 2 cm, while the lateral deviation is 1.5 cm.

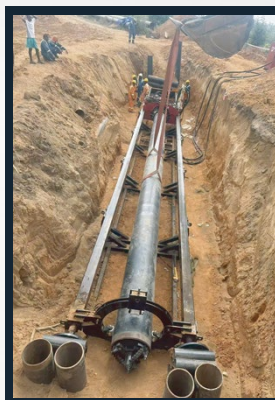
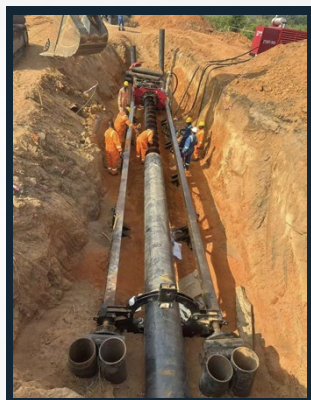
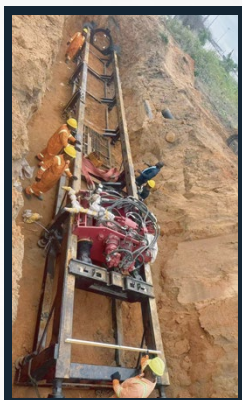
●● 施工案例二： 中国长安区 Construction Case 2: Chang'an District, China



$\Phi 820\text{mm}$ 钢管，长68米，地层含沙量高，注浆快速推进，左右偏差2.5cm，高精度完工。

$\Phi 820\text{mm}$ steel pipe, 68 meters in length. The stratum has a high sand content, so grouting progressed quickly. The deviation from the intended position was only 2.5 cm, resulting in a highly precise completion of the work.

●● 施工案例三： 尼日尼亚 Construction Case 3: Nigeria



$\Phi 610\text{mm}$ 钢管，长度36m，硬土层，不打导向直接钻孔，高效率完工。

$\Phi 610\text{mm}$ steel pipe, length 36m, hard soil layer, auger boring directly without pilot drilling, high-efficiency completion.



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