质量体系认证　知识产权体系认证　欧盟CE认证　国家高新技术企业



江苏省无锡探矿机械总厂有限公司

JIANGSU XI TEC ENVIRONMENTAL & DRILLING EQUIPMENT COMPANY CO.,LTD.

地址：江苏省无锡市新吴区锡达路555号

邮箱：xt3@wxtkc.com　　官网：www.wxtkc.com

24小时电话：400-660-2226

Add: 555 Xida Road, Xinwu District, Wuxi City, Jiangsu Province

E-mail：xt3@wxtkc.com　　Web：www.wxtkc.com

24HTel：400-660-2226

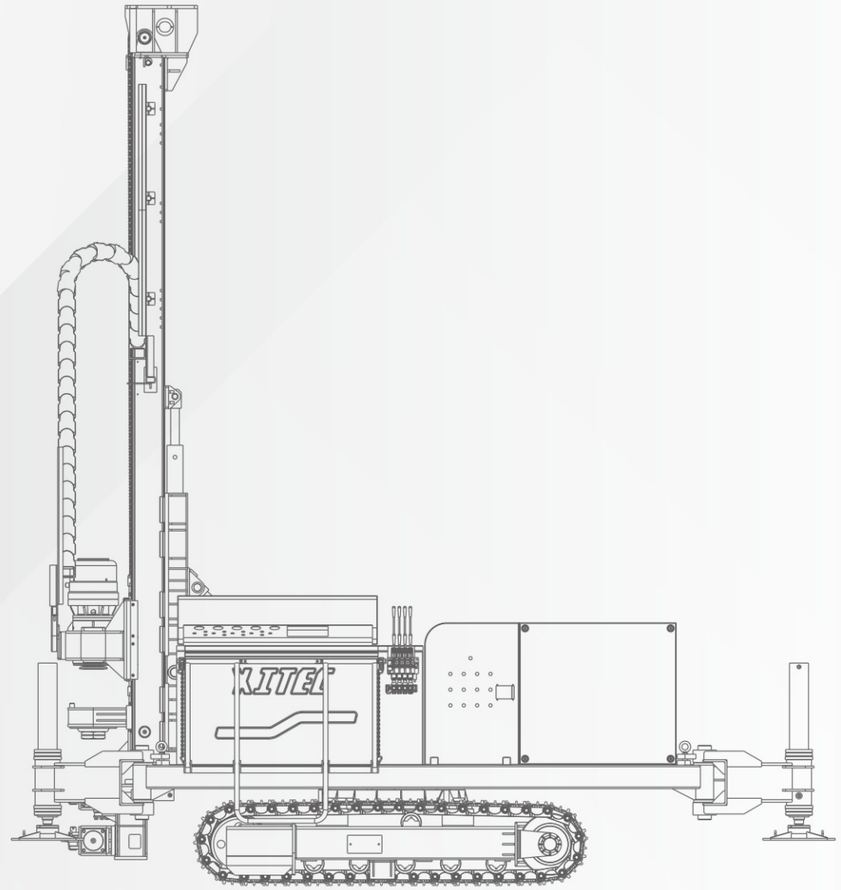
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XITEC
锡探科技



产品样册

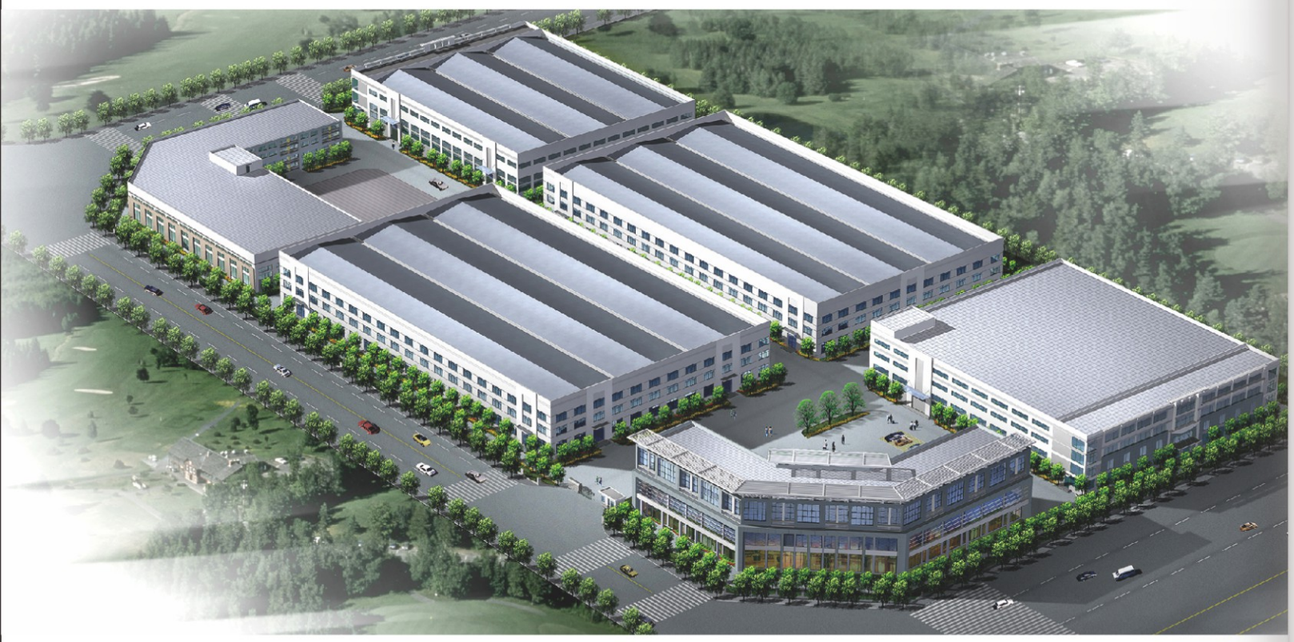
专业钻机装备领域的引领者 A LEADER IN
THE FIELD OF PROFESSIONAL DRILLING EQUIPMENT

PRODUCT SAMPLE BOOKLET

关于锡探科技
ABOUT XITAN TECHNOLOGY

创立于 1956

传承经典 铸造卓越 专精特新



时代巨擘 磅礴之力

TIME GIANT MAJESTIC FORCE

锡探科技（江苏省无锡探矿机械总厂有限公司）成立于1956年，如今已转型发展成为一个专精特新科技型企业。获评国家高新技术企业，科技型中小企业，无锡市瞪羚企业，设有江苏省工程技术中心、省博士后创新实践基地，在自主研发过程开拓创新，获江苏省岩土学会科技进步奖一等奖；中国商业科技进步二等奖。拥有国家高新技术产品10项，国家科技攻关项目2项，累计拥有发明及实用新型专利120项。

公司主营业务产品为智慧环境装备、智慧能源装备、智慧桩工装备等系列智能机械设备。广泛应用于绿色环保、基础工程、地质灾害等国家重大工程，其中智慧环境装备在土壤调查修复领域占据主导地位，打破了高端土壤取样钻机被国外机型垄断的局面，填补了国家重点行业空白。

XITEC (JIANGSU XI TEC ENVIRONMENTAL & DRILLING EQUIPMENT COMPANY CO.,LTD.) was established in 1956 and now has transformed and developed into a specialized,refined,and innovative technology enterprise.Awarded as a national high-tech enterprise,technology-based small and medium-sized enterprise,Wuxi Gazelle Enterprise,with Jiangsu Engineering Technology Center and Provincial Postdoctoral Innovation Practice Base.Developed and innovated through independent research and development,and won the first prize of Jiangsu Geotechnical Society Science and Technology Progress Award;Second Prize of China Business Science and Technology Progress Award.We have 10 national high-tech products,2 national scientific and technological research projects,and a total of 120 invention and utility model patents.

The company's main business products include a series of intelligent mechanical equipment such as smart environmental equipment,smart energy equipment,and smart pile construction equipment.Widely used in national major projects such as green environmental protection,basic engineering,and geological disasters,smart environmental equipment dominates in the field of soil investigation and remediation,breaking the monopoly of high-end soil sampling rigs by foreign models and filling the gap in national key industries.

Company Profile

XITAN HONOR 锡探荣誉

1956年

国家地质部发文
在锡建设地质专业厂

Document issued by the Ministry
of Geology of China
Constructing a Geological
Professional Factory in Wuxi

2003年

完成整体改制
建设现代企业制度

Complete the overall
restructuring and establish
a modern enterprise system

2009年

江苏省探矿机械工程技术研究中心

Jiangsu Exploration
Machinery Engineering
Technology Research Center

2017年

新锡探、新征程

New XITEC New Journey



2020年

无锡市专精特新“小巨人”企业
江苏省专精特新产品-QY环境取样钻机

Wuxi specialized,refined
and innovative "little giant" enterprise
Provincial specialized,refined,and innovative product -
QY environmental sampling drilling rig

2021年

无锡市瞪羚企业
江苏省博士后创新实践基地

Wuxi Gazelle Enterprise
Jiangsu Province Postdoctoral Innovation Practice Base

2023年

江苏省专精特新企业
江苏省软件核心竞争力企业
无锡市智能制造标杆企业

Provincial specialized,refined and innovative enterprises
Provincial Software Core Competitiveness Enterprise
Wuxi Intelligent Manufacturing Benchmark Enterprise

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LOW-FRAME JET GROUTING DRILLING RIG SERIES

24 ---------- QJS-50L 型智能高效旋喷钻机
INTELLIGENT AND EFFICIENT JET GROUTING DRILLING RIG

25 ---------- MDL-C 顶驱多功能钻机系列
TOP DRIVE MULTIFUNCTIONAL DRILLING RIG SERIES

26 ---------- MDL-185T 自动上杆多功能钻机
MULTI-PURPOSE DRILLING RIG WITH AUTOMATIC LOADING

27/28 ---------- MDL-D 深基坑锚固钻机系列
DEEP FOUNDATION ANCHOR DRILLING RIG SERIES

29/30 ---------- MDL-150X2 锚固旋喷一体钻机
ANCHOR JET GROUTING DRILLING RIG

31/32 ---------- MDL-H 举升多功能钻机
LIFTING MULTI-PURPOSE DRILLING RIG

33 ---------- MD-A/D/P 分体式钻机（坑道/地下室）等系列
SPLIT DRILLING RIG (PIT/BASEMENT) AND OTHER SERIES

34 ---------- MD-A 分体式锚固钻机（边坡）系列
SPLIT ANCHOR DRILLING RIG (SLOPE) SERIES

XT-500 型光伏钻机
PHOTOVOLTAIC DRILLING MACHINE

SCENE 适用场景

适用于光伏施工的拧桩、螺旋桩、冲击桩等各种工艺。

适用于公路护栏桩打桩、拔桩。

适用于地铁、高层建筑、机场、地源热泵及其他深基坑进行锚固、旋喷作业。

Suitable for various processes such as screw pile,helical pile and impact pile for photovoltaic construction.

Suitable for highway guardrail pile driving and pile pulling.

Suitable for anchoring and rotary spraying operations in subways, high-rise buildings,airports, ground source heat pumps, and other deep foundation pits.

PARAMETERS 主要参数

名称/Name	XT-500A
钻孔直径/Borehole diameter (mm)	ф150～ф350
钻孔深度/Drilling depth(m)	0～35
钻孔角度/Hole Angle (°)	0～90
钻杆直径/Drill pipe diameter(mm)	Φ73、Φ89、Φ102、Φ114
额定输出扭矩/Output torque (Nm)	7500
额定转速/Output speed(r/min)	10/20/30/35/40/60/65/70/85/130/170
提升速度/Lifting speed(m/min)	0~5 可调、7、23、30
给进速度/Feed speed(m/min)	0~10 可调、14、46、59
额定提升力/Rated lifting force (kN)	70
额定给进力/Rated feeding force (kN)	36
给进行程/Feeding process (mm)	3400
滑移行程/Slip stroke (mm)	900
动力/Power	康明斯 Commins
功率/Power	92kW
重量/Weight(kg)	7000
爬破角度/Crawling angle	25°
运输状态/Transport diameter (L*W*H, mm)	6200×2100×2350
垂直工作状态/Vertical operation diameter (L*W*H, mm)	3600×2500×6200









施工特点
CHARACTERISTIC

三翼钻头钻进、泥浆排渣
适用于土层、沙层等地层
高速钻进

THREE-WING BIT DRILLING, MUD DRAINAGE;SUITABLE FOR HIGH-SPEED DRILLING IN SOIL,SAND AND OTHER STRATA

空气潜孔锤钻进、空气排渣
适用于破碎层施工

AIR DRILLING WITH DTH HAMMER AND AIR-DRIVEN SLAG REMOVAL.SUITABLE FOR THE CONSTRUCTION OF BROKEN LAYER.

液压除尘系统、保护环境
可满足矿山的环保要求

HYDRAULIC DUST REMOVAL SYSTEM, TO PROTECT THE ENVIRONMENT, CAN MEET THE ENVIRONMENTAL REQUIREMENTS OF THE MINE

套管钻进

CASING DRILLING

钻杆、套管复合钻进

DRILL PIPE AND CASING COMPOSITE DRILLING

钻机结构紧凑、施工稳定

THE DRILLING RIG IS COMPACT AND STABLE IN CONSTRUCTION



XT-15E 农田取样机器人（纯电动）升级版

FARMLAND SAMPLING ROBOT

广泛应用于农田植保及智慧农业。

Widely used in Farmland plant protection and intelligent agriculture.

微挖底盘灵活可靠

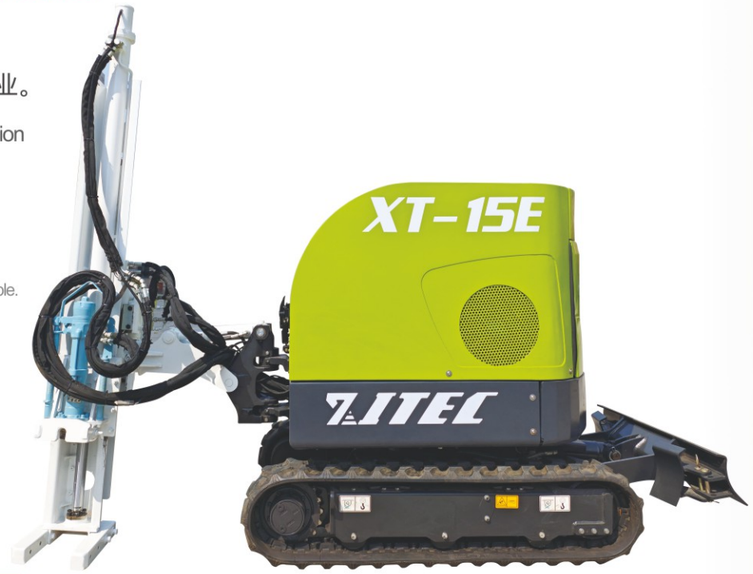
The micro-excavation chassis is flexible and reliable.

高效冲击动力头、高效取样

Highly efficient impact head for efficient sampling.

纯电动模式、环保低碳

Pure electric mode
environmental protection and low carbon.



PARAMETERS 主要参数

名称/Name	XT-15E
钻孔直径/Drilling diameter(mm)	≤ϕ60
钻孔深度/Drilling depth(m)	≤12
探测架行程/Stroke of probe(mm)	1500
探测架倾斜角度/Probe tilt angle(°)	70~100
探测架偏摆角度/Sounder deflection angle(°)	±18
额定提升力/Rated lifting force(kN)	60
额定加压力/Rated pressure(kN)	30
冲击频率/Impact frequency(bpm)	1700
冲击功率/Impact power(kw)	7.5
行驶速度/Traveling speed(km/h)	2/4
爬坡能力/Climbing capacity(°)	30
履带总宽度/Total width of track(mm)	1080/1400
履带板宽度/Width of track plate(mm)	230
履带长度/Track length(mm)	1585
最小离地间隙/Minimum ground clearance(mm)	145
工作高度/Working height(mm)	3500
运输尺寸/Transportation dimension(L×WxH)(mm)	3065×1080×1800
重量/Weight(kg)	1900
接地比压/Ground specific pressure(kg/cm2)	0.34

QY-15L 农田取样机器人 基础版

FARMLAND SAMPLING ROBOT

广泛应用于农田、化工车间
实验基地等采样作业。

Widely used in Sampling operations in agricultural fields,chemical workshops, experimental bases and so on.

微型土壤钻机、全智能控制

Micro Soil Drilling Rig,Fully Intelligent Controls

高效冲击动力头、高效取样

Highly efficient impact head for efficient sampling

轻便小巧、底盘灵活可靠

Lightweight and compact,flexible and reliable chassis

可选配纯电动模式、环保

Optional pure electric mode,environmentally friendly



PARAMETERS 主要参数

名称/Name	QY-15L
钻孔直径/Drilling diameter(mm)	≤ ϕ60
钻孔深度/Drilling depth(m)	≤12
探测架行程Stroke of probe(imm)	1500
探测架倾斜角度/Probe tilt angle(°)	70~100
探测架偏摆角度/Sounder deflection angle(°)	±18
额定提升力/Rated lifting force(kN)	60
额定加压力/Rated pressure(kN)	30
冲击频率/Impact frequency(bpm)	1700
冲击功率/Impact power(kw)	7.5
发动机/Engine	YANMAR
动力/Power(kw/rpm)	15.1/2400
行驶速度/Traveling speed(km/h)	2/4
爬坡能力/Climbing ability(°)	30
履带总宽度/Total width of track(mm)	1080/1400
履带板宽度/Width of track plate(mm)	230
履带长度/Track length(mm)	1585
最小离地间隙/Minimum ground clearance(mm)	145
工作高度/Working height(mm)	3500
运输尺寸/Transportation dimension(L×Wx H)(mm)	3065×1080×1800
重量/Weight(kg)	1900
接地比压/Ground pressure(kg/cm2)	0.34

QF-150X^{max} 环境修复工作站

ENVIRONMENTAL REMEDIATION WORKSTATIONS

土壤和地下水原位药剂注入修复。

Soil and groundwater remediation by in situ chemical injection.

通孔液压卡盘式动力头、通用性好
Through-hole hydraulic chuck type powerheads.Good versatility.

扭矩大、能适应更多复杂工况
High torque,can adapt to more complex working conditions.

配有孔口扶正器和卸扣夹持器
Equipped with orifice holders and buckle grippers.

钻杆导向性能和装卸钻杆、能力强
Excellent drill pipe guidance and drill pipe loading and unloading capabilities



PARAMETERS 主要参数

名称/Name	QF-150X max
钻杆直径/Spindle bore(mm)	ϕ60/ϕ73/ϕ76/ϕ89
输出扭矩/Output torque(Nm)	7000
输出转速/Output speed(r/min)	0~138
动力头行程/Power head stroke(mm)	3400
动力头额定提升力/Lifting force of power head(kN)	70
动力头额定加压力/Feeding force of power head(kN)	36
动力头提升速度/Lifting speeding of power head(m/min)	0~5可调、7、23、30
动力头加压速度/Feeding speeding of power head(m/min)	10、14、46、59
推进架滑移行程/Stroke of slide frame(mm)	1200
履带行走速度/Walking speed of caterpillar chassis(km/h)	0.58
工作状态外形尺寸/Operation dimension(mm)L×W×H	4270×3656×16935
运输状态外形尺寸/Transport dimension(mm)L×W×H	5420×2180×2400
重量/Weight(kg)	7100
输入总功率（电机）/Input power(electromotor)(kW)	55+18.5+3
不接杆一次成桩最大深度/Maximum pile depth without connecting rod(m)	14.5

◆双动力头快速切换
◆取样建井快速施工
◆可无线遥控行走

◆Dual power head quick switching
◆Rapid construction of sampling wells
◆Wireless remote control for walking



◆动力头拖板可横移
◆无线遥控及液控操作
◆增配原位高压注喷修复模块
◆增配智慧物联管理平台

◆The power head drag plate can move laterally
◆Wireless remote control and hydraulic control operation
◆Add in-situ high-pressure injection and spray repair module
◆Add intelligent IoT management platform



QY 60L

QY 100L

ITEC 锡探科技

小而美 & 专而强的
科技型企业

QY 60L^{pro}

QY 100L^{pro}

◆集取样、修复功能于一体
◆可多角度倾斜作业
◆实时信息反馈系统
◆无线遥控操作

◆Integrated sampling and repair functions
◆Can tilt at multiple angles for operation
◆Real time information feedback system
◆Wireless remote control operation



◆冲击、回转一体式动力头
◆自复位天车机构
◆无线遥控及液控操作
◆负载敏感电液比例系统

◆Integrated power head with impact and rotation
◆Self resetting crown block mechanism
◆Wireless remote control and hydraulic control operation
◆Load sensitive electro-hydraulic proportional system



QY-60L^{pro} 型环境取样机器人
ENVIRONMENTAL SAMPLING ROBOT

SCENE 适用场景

QY型系列钻机广泛应用于污染场地的调查、修复以及工程地质勘察等行业。

QY series sampling robots are widely used in polluted site investigation, repait,and engineering geological Survey and other industries.

PARAMETERS 主要参数

名称/Name	QY-60L^{pro}
螺旋动力头/Spiral power head	
高扭矩/High torque (Nm)	3400
低扭矩/Low torque (Nm)	970
高转速/High speed (rpm)	230
低转速/Low speed (rpm)	90
输出形式:外六方/Output form:Outer hexagonal	1-5/8'
冲击动力头/Impact power head	
冲击频率/Impact frequency (bpm)	1600~1900
冲击功率/Impact power (kW)	9
扭矩/Torque (Nm)	700~900
转速/Speed (rpm)	0~260
动力头提升力/Power head lifting force (kN)	220
动力头推进力/Propulsion force of power head (kN)	140
液压卷扬提升力/Hydraulic winch lifting force (kN)	10
动力头行程/Power head stroke (mm)	2000
钻机重量/Weight of drilling rig (kg)	5000
运输尺寸/Transport dimensions (L×W×H)(mm)	3500×1900×2500
工作尺寸/Working dimensions (L×W×H)(mm)	4500×1900×4800
额定功率/Rated power (kW)	93
机架前后滑移/Front and rear sliding of the frame (mm)	400
机架偏摆角度/Frame deflection angle (°)	±10
起塔角度/Tower lifting angle (°)	25~100
井架倾斜角度/Derrick inclination angle (°)	-15~15
后部挂架承载力/Rear hanger capacity (kg)	900
行走速度/Walking speed (km/h)	2.5~4.5
接地比压/Ground specific pressure (kg/cm²)	0.46



施工特点
CHARACTERISTIC

- 集取样、修复功能于一体
  SAMPLING AND RESTORATION IN ONE IN ONE
- 大功率冲击动力头
  HIGH POWER IMPACT POWER HEAD
- 大扭矩螺旋动力头
  HIGH TORQUE HELICAL POWER HEAD
- 倾斜作业
  TILT OPERATION
- 实时信息反馈系统
  REAL-TIME INFORMATION FEEDBACK SYSTEM
- 无线遥控模式
  WIRELESS REMOTE CONTROL MODE
- 施工稳定
  CONSTRUCTION STABILITY
- 满足最新国家排放要求
  MEET THE LATEST COUNTRIES EMISSION REQUIREMENTS









QY-100L^{pro}型环境取样机器人
ENVIRONMENTAL SAMPLING ROBOT

SCENE 适用场景

QY型系列钻机广泛应用于污染场地的调查、修复、以及工程地质勘察等行业。

QY series sampling robots are widely used in polluted site investigation,repait,and engineering geological Survey and other industries.

PARAMETERS 主要参数

名称/Name	QY-100L^{pro}
冲击回转一体动力头/ Integrated impact and rotation power head	
高扭矩/High torque (Nm)	5600
低扭矩/Low torque (Nm)	1800
高转速/High speed (rpm)	80
低转速/Low speed (rpm)	20
输出形式 / 内六角Output form	∅69-65
冲击频率/Impact frequency (bpm)	1900
冲击功率/Impact power (kW)	12
动力头提升力/Power head lifting force (kN)	260
动力头推进力/Propulsion force of power head (kN)	185
液压卷扬提升力/Hydraulic winch lifting force (kN)	12
动力头行程/Power head stroke (mm)	2000
钻机重量/Weight of drilling rig (kg)	6000
运输尺寸/Transport dimensions (L×W×H)(mm)	4000×1980×2400
工作尺寸/Working dimensions (L×W×H)(mm)	4200×1980×4800
额定功率/Rated power (kW)	93
机架前后滑移/Front and rear sliding of the frame (mm)	450
起塔角度/Tower lifting angle (°)	25~100
井架倾斜角度/Derrick inclination angle (°)	-15~15
后部挂架承载力/Rear hanger capacity (kg)	1200
行走速度/Walking speed (km/h)	2.8~4.2
接地比压/Ground specific pressure (kg/cm^2)	0.36











施工特点
CHARACTERISTIC

- 冲击、回转一体式动力头
  INTEGRATED IMPACT AND ROTATION POWER HEAD
- 动力头拖板可横移
  THE POWER HEAD CARRIAGE CAN MOVE HORIZONTALLY
- 自复位天车机构
  SELF RESETTING CROWN BLOCK MECHANISM
- 开合式操纵柜
  OPEN CLOSE CONTROL CABINET
- 无线遥控及液控操作
  WIRELESS REMOTE CONTROL AND HYDRAULIC CONTROL OPERATION
- 双油缸后部挂架
  DUAL CYLINDER REAR HANGER
- 倾斜作业
  TILTING OPERATION
- 负载敏感电液比例液压系统、节能高效
  LOAD SENSITIVE ELECTRO-HYDRAULIC PROPORTIONAL HYDRAULIC SYSTEM,ENERGY-SAVING AND EFFICIENT







BW-80 注药小车
INJECTION CART

SCENE 适用场景

用于各类农田场地肥力改良、微生物修复等各类注射修复。

Used for various types of farmland site fertility improvement, microbial restoration and other types of injection restoration.

PARAMETERS 主要参数

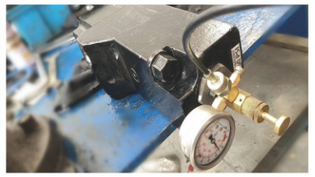
名称/Name	BW-80
重量 Weight kg	90
动力 Power	Honda G×270
总功率 Total capacity KW/PS	6.6/9
额定压力 Rated pressure bar	45
额定流量 Rated flow rate L/min	30
油箱容积 Fuel tank capacity L	6.0
平均油耗 Average fuel consumption g/kWh	313
全功率持续工作时间 Full power continuous working time	约3小时/Approximately three hours
注药流量、压力监测 Injection flow rate/Pressure detection	选配/Optional













施工特点
CHARACTERISTIC

- 移动快捷
  CONVENIENT MOBILITY
- 维修方便
  配件供应充足
  CONVENIENT MAINTENANCE AND SUFFICIENT SUPPLY OF ACCESSORIES
- 流量稳定、压力稳定
  STABLE FLOW AND PRESSURE
- 自带汽油机
  无需额外动力源
  EQUIPPED WITH A GASOLINE ENGINE,NO ADDITIONAL POWER SOURCE IS REQUIRED
- 316不锈钢泵头
  耐常规氧化腐蚀
  316 STAINLESS STEEL PUMP HEAD, RESISTANT TO CONVENTIONAL OXIDATION CORROSION
- 可选用非金属泵头
  用于特殊药剂注射
  OPTIONAL NON-METALLIC PUMP HEAD FOR SPECIAL DRUG INJECTION
- 独特泵头结构
  可注射带颗粒混合物
  UNIQUE PUMP HEAD STRUCTURE, CAPABLE OF INJECTING MIXTURES WITH PARTICLES
- 全机械操作、安全可靠
  FULLY MECHANICAL OPERATION, SAFE AND RELIABLE
- 可选配注药流量
  压力监测
  OPTIONAL INJECTION FLOW RATE AND PRESSURE DETECTION

XY 岩芯钻机系列
CORE DRILLING RIG SERIES



广泛应用于以合金、金刚石为主的岩芯钻探
可用于工程地质勘探
性能广泛、标准化通用程度高

Widely used in core drilling with alloys and
diamonds as the main components
Can be used for engineering geological exploration
Wide range of performance
high degree of standardization and universality

XY-4-3A 岩芯/工程钻机
CORE/ENGINEERING DRILLING RIGS



适应岩芯钻探
水文水井钻进、工程地质钻进
工程施工、钻进等多种用途

Adapt to core drilling
Hydrological well drilling and
engineering geological drilling
Multiple uses such as engineering
construction and drilling

GXY/GYQ 勘察钻机系列
SURVEY DRILLING RIG SERIES



适用于工程地质察、固体矿床的普查勘探
爆破孔及各种混凝土结构的检查孔等
根据地层的不同可选用金刚石、硬质合金
旋钻头等进行钻孔

Suitable for engineering geological exploration and survey
exploration of solid mineral deposits
Blasting holes and inspection holes for various concrete structures
According to the different strata Diamond, hard alloy,
rotary drill bits,etc.can be selected for drilling

G 系列车载多功能钻机
SERIES VEHICLE-MOUNTED MULTIFUNCTIONAL DRILLING RIGS

主要用于大型工民建以及公路、高铁、地铁、桥梁、水坝、国防建设等工程地质勘察、以及水文地质普查、简易水井、物探爆破孔和小型灌柱桩浅孔钻进。

It is mainly used for large-scale industrial and civil construction as well as highway,high-speed railway,subway,bridge,dam, national defense construction and other engineering geological survey,as well as hydrogeological census,simple water wells, physical exploration blast holes and small-scale column pile shallow hole drilling.



XP 高架旋喷钻机系列
ELEVATED JET GROUTING DRILLING RIG SERIES

SCENE 适用场景

适合高压旋喷和锚固工程施工工艺的两用钻机、深孔桩可以一杆到底。

Dual-purpose drilling rig suitable for high-pressure jet grouting and anchoring construction techniques,deep hole piles can be driven to the bottom in one shot.

PARAMETERS 主要参数

名称/Name	XPG-65
旋喷施工/Jet grouting construction	单重、双重、三重
成桩直径/Pile diameter(mm)	400-600、600-1200、800-1600
不接杆最大一次成桩深度/Maximum piling depth without jointing(m)	26+3选配
钻孔直径/Drilling diameter(mm)	ϕ150-ϕ250
钻孔深度/Drilling depth(m)	60~80
钻杆直径/Diameter of drill pipe(mm)	ϕ50、ϕ60、ϕ73、ϕ76、ϕ89
钻杆倾角/Drill pipe inclination angle (°)	0~90
回转器输出转速/Rotor output speed(r/min)	0~12.5/0~25/50/62/100/125
回转器输出扭矩/Rotor output torque (Nm)	7000
回转器行程/Stroke of rotor(mm)	4000
回转器提升力/Lifting force of rotor(kN)	70
回转器提升速度/Lifting speed of rotor(m/min)	0-1.3,8/18/27
回转器加压力/Rotor pressurizing force(kN)	36
回转器加压速度/Rotor pressurizing speed(m/min)	2.5,16/36/53







施工特点
CHARACTERISTIC

- 加装了可折卸的5-22m副塔
  FOLDABLE 5-22M SUB-TOWER ADDED
- 一杆到底、减少拆卸钻具次数
  省时省料、减少质量隐患
  ONE ROD TO THE BOTTOM,REDUCING THE NUMBER OF TIMES DRILLING TOOLS ARE DISASSEMBLED SAVE TIME AND MATERIALS REDUCE QUALITY HAZARDS
- 通孔直径92
  可保证89钻杆的无障碍通过
  THE THROUGH-HOLE DIAMETER OF 92 ENSURES89 UNOBSTRUCTED PASSAGE OF THE DRILL PIPE
- 满足三重旋喷施工及锚固施工
  MEET THE REQUIREMENTS OF TRIPLE JET GROUTING CONSTRUCTION AND ANCHORING CONSTRUCTION
- 液压卡盘结构
  钻具更换更方便自由
  HYDRAULIC CHUCK STRUCTURE DRILLING TOOLS CHANGE MORE CONVENIENT FREE
- 可在大多数的地层中旋
  喷施工不用引孔
  JET GROUTING WITHOUT PILOT HOLES IS POSSIBLE IN MOST FORMATIONS
- 钻机采用双卷扬机、电机控制
  步履移位、工作效率高
  THE DRILLING RIG ADOPTS A DUAL WINCH AND MOTOR CONTROL STEP SHIFT AND HIGH WORK EFFICIENCY
- 安全可靠、效率高、成本低
  SAFE AND RELIABLE, HIGH EFFICIENCY, AND LOW COST

XP 低架旋喷钻机系列

LOW-FRAME JET GROUTING DRILLING RIG SERIES

适合地下室、室内以及其他狭小空间施工的钻机。

A drilling rig suitable for construction in basements, indoor spaces,and other narrow spaces.



所需作业空间小、在搬迁、迁移时极为方便
Requires little working space is extremely convenient when relocating and migrating

钻具配套齐全
Complete set of drilling tools

配置部件多、如单重、二重、三重模块
Multiple configuration components,such as single,double and triple modules

工艺广、可用于锚固工艺的施工
Wide range of processes,can be used in the construction of the anchoring process

PARAMETERS 主要参数

名称/Name	XP-20A	XPL-20A	XP-25
桩径Pile diameter(mm)	单重:400~600、双重:600~1200、三重:800~1600		
孔深Hole depth(m)	30-50		30-50
孔径Borehole diameter(mm)	90-185		90-185
输出扭矩Output torque(Nm)	3600		3500
输出速度Output speed(r/min)	0-12 , 0-25/30/65/95	0-12 ,0-25/30/65/48 /60/95/120	0-12/0-35/12/38 50/110/145
动力头提升力Power head lifting force(kN)	40		25
动力头加压力Power head lifting force(kN)	25		17
提升速度Lifting speed(m/min)	0-0.7(无级可调）0.7/6		0-1(无级可调)6
动力头行程Power head stroke(m)	1.8（2.3m/3.4m选配）		1.8(1.5m/2.3m选配)
行走速度Traveling speed(km/h)	8		
电机功率Motor power(kW)	22+1.5		30+1.5
重量Weight(kg)	1800	3900	1500
施工状态尺寸Dimension in construction condition(mm)L×W×H	3100×1500×3050	3300×2500×4100	3050×1535×3068
运输状态尺寸Transportation size(mm)L×W×H	3100×1500×1500	3200×2000×2050	3050×1535×1510

QJS-50L 型智能高效旋喷钻机

INTELLIGENT AND EFFICIENT JET GROUTING DRILLING RIG

增高副塔、以及叠加式双天车卷扬，负载敏感变量液压系统，夹持大直径钻杆长行程微调步进施工的功能，适合双高压RJP工法和多管QJS超高压旋喷工法施工。集成驾驶室，带空调，监控显示屏幕及操作输入屏幕集成在驾驶室内。

Heightened sub-tower, and stacked dual overhead winches, load-sensitive variable hydraulic system.The function of clamping large diameter drill pipe with long stroke and fine-tuned stepping is suitable for double high-pressure RJP and multi-pipe MJS ultra-high-pressure jet grouting blasting.and multi-pipe MJS ultra-high-pressure jet grouting jetting methods.Integrated cab with air conditioning,monitor display screen and operator input screen integrated in the cab.



通孔式动力头达到∅145mm
可用于大直径超高压旋喷作业
Through-hole power head up to ∅145 mm for large-diameter ultra-high-pressure jet grouting spraying operations.

长行程施工一杆到底
提高了工作效率
Long distance construction with one pole to the end
Improved work efficiency

PARAMETERS 主要参数

名称/Name	MJS-50L
最大一次成桩深度 Maximum piling depth(m)	15
卡盘通径/Chuck diameter(mm)	145
输出扭矩/Output torque(Nm)	8000
输出转速/Output speed(r/min)	0~45、0~90
动力头行程/Power head stroke(mm)	4000
动力头额定提升力 Rated lifting force of power head(kN)	85
动力头额定加压力 Rated pressure of power head(kN)	50
动力头提升速度 Lifting speed of power head(m/min)	0-6.1
动力头加压速度 Power head pressurizing speed(m/min)	0-10.3
夹持范围/Clamping range(mm)	60-220
工作状态外形尺寸 External dimension in working condition(mm)	6200×3300×17800
运输状态外形尺寸 External dimension in transportation condition(mm)	7600×3000×3000
重量/Weight(kg)	16000
输入总功率/Input power(kW)	45+15



MDL-C 顶驱多功能钻机系列

TOP DRIVE MULTIFUNCTIONAL DRILLING RIG SERIES

针对复杂地层研发的顶驱冲击多功能钻机、主要应用于基坑支护、边坡支护、各类复杂地层引孔、隧道管棚等各类工程。

The top-driven percussion multifunctional drilling rigs developed for complex formations are mainly used in various projects such as foundation pit support,slope support,various kinds of complex formation pilot holes,tunnel pipe sheds and so on.



成孔效率高、效果好

High efficiency and good effect of hole formation.

钻具从外至内全部参与传递冲击功、不易发生卡钻、埋钻

The drilling tool is fully involved in transmitting the impact work from the outside to the inside, so it is not easy to jam or bury the drill

有效减少施工成本和风险

Effectively reduce construction costs and risks

大扭矩、高转速、大功率冲击、使用于最广泛的地层

High torque,high speed,high power impact,used in the widest range of formations

PARAMETERS 主要参数

名称/Name	MDL-C150	MDL-C180	MDL-C200
钻孔直径/Drilling diameter(mm)	ф150~ф250	ф150~ф250	ф150~ф250
钻孔深度/Drilling depth(m)	100~80	180~150	200~150
钻杆倾角/Drill pipe inclination angle(°)	0~90	0~110	0~100
钻杆直径/Diameter of drill pipe(mm)	内ф76~ф89,外ф127~ф146	内ф76~ф114,外ф133~ф168	内ф89~ф114,外ф133~ф219
回转器输出扭矩/Rotor output torque(Nm)	9500	10500	14000
冲击功/Impact work(N.M)	450	800	900
冲击频率/Impact frequency(min-1)	1300	2500	1200-2100
额定提升力/Rated lifting force(kN)	62	78	78
额定给进力/Rated feeding force(kN)	32	40	40
进给行程/Feed stroke(mm)	2600	3200	3800
重量/Weight(Kg)	6800	7800	8800
外形尺寸/Overall dimension(mm)LxWxH	5400×2100×2000	5400×2200×2250	6900×2180×2600
输入功率(柴油机)/Input power (diesel engine) (Kw)	92(康明斯)	103(康明斯)	125(康明斯)
输入功率(电动机)/Input power (motor)(Kw)	55+18.5+3	55+22+3	75+37+4

MDL-185T 自动上杆多功能钻机

MULTI-PURPOSE DRILLING RIG WITH AUTOMATIC LOADING

适用城市基坑支护和控制建筑物位移的锚固工程、各类地基处理工程、以及大口径工程钻机。

It is suitable for urban pit support and anchoring works to control the displacement of buildings,all kinds of foundation treatment works,as well as large-diameter engineering drilling rigs.



“螺丝钉锚杆工艺”的创新机型、一次成锚
工作效率数倍提高、锚固力大、成本低

The innovative model of "Screw Anchor Technique",one time anchor, work efficiency increased several times,large anchoring force, low cost.

自动控制系统
实现自动上下钻杆、大大减轻了工人劳动强度

The automatic control system realizes automatic up and down drilling rods which greatly reduces the labor intensity of workers.

PARAMETERS 主要参数

名称/Name	MDL-185T
钻孔直径/Drilling diameter(mm)	ф150~ф250
钻孔深度/Drilling depth(m)	200-150
钻杆直径/Drill pipe diameter(mm)	60、73、89
钻杆倾角/Drill pipe inclination angle(°)	0~90
动力头扭矩/Power head torque(Nm)	13000
动力头行程/Power head stroke(mm)	5000
动力头额定提升力/Rated lifting force of power head(kN)	70
动力头额定加压力/Rated lifting force of power head(kN)	36
动力头提升速度/Lifting speed of power head(m/min)	1.45-29.6
动力头加压速度/Power head pressurizing speed(m/min)	2.85-58.1
夹持范围/Clamping range(mm)	60-220
工作状态外形尺寸/External dimension in working condition(mm)	4690×2200×7730
运输状态外形尺寸/External dimension in transportation condition(mm)	7730×2200×2670
重量/Weight(kg)	7200
输入总功率/Input power(kW)	55+22+2.2

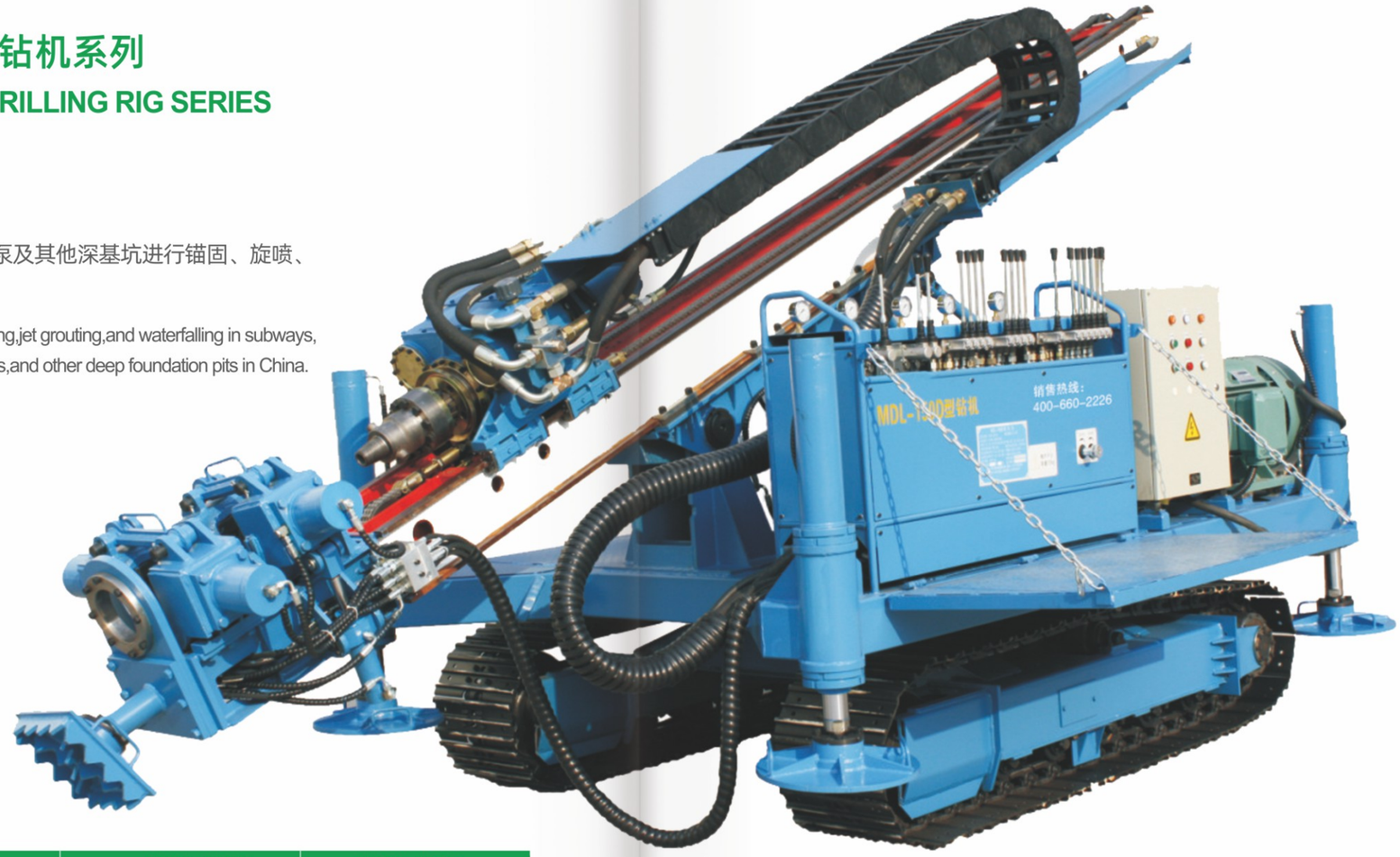
MDL-D 深基坑锚固钻机系列

DEEP FOUNDATION ANCHOR DRILLING RIG SERIES

SCENE 适用场景

根据国内地铁、高层建筑、机场、地源热泵及其他深基坑进行锚固、旋喷、降水所开发的高效钻机。

It is a high-efficiency drilling rig developed for anchoring,jet grouting,and waterfalling in subways, high-rise buildings,airports,ground source heat pumps,and other deep foundation pits in China.



PARAMETERS 主要参数

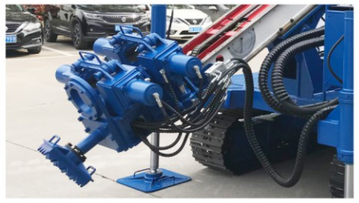
名称/Name	MDL-150D	MDL-180D
钻孔直径/Drilling diameter(mm)	ф150~ф250	ф150~ф250
钻孔深度/Drilling depth(m)	170~130	200~150
钻杆直径/Drill pipe diameter(mm)	ф73/ф89/ф102/ф114	ф73/ф89/ф102/ф114
回转器输出扭矩/Rotor output torque(Nm)	7500	11000
回转器行程/Stroke of rotor(mm)	3400	3400
推进架给进行程/Pusher feed stroke(mm)	900	900
回转器提升力/Lifting force of rotor(kN)	70	70
回转器提升速度/Lifting speed of rotator(m/min)	0~5可调/7/23/30	0~5可调/7/23/30
回转器加压力/Rotor pressurizing force(kN)	36	36
回转器加压速度/Rotor pressurizing speed(m/min)	0~10可调/14/46/59	0~10可调/14/46/59
输入功率(电动机)/Input power (motor)(kw)	55+18.5	55+22+4
输入功率(柴油机)/Input power (diesel engine)(kW)	92(康明斯)	132(康明斯)
重量/Weight(kg)	6000	6350
运输尺寸/Transportation dimension(mm)L×W×H	5400×2100×2000	5400×2100×2100

施工特点 CHARACTERISTIC

- 三翼钻头钻进、泥浆排渣
  适用于土层、沙层等地层高速钻进
  THREE-WING BIT DRILLING,MUD DRAINAGE;SUITABLE FOR HIGH-SPEED DRILLING IN SOIL,SAND AND OTHER STRATA
- 空气潜孔锤钻进、泥浆排渣
  适用于破碎层施工
  AIR-DRILLED SUBMERGED HAMMER DRILLING,MUD DRAINAGE SUITABLE FOR CONSTRUCTION OF BROKEN LAYER
- 孔底液动锤钻进、泥浆排渣
  适用于破碎层、沙卵层等含水量较大地层施工
  BOTTOM-OF-HOLE FLUID-ACTIVATED HAMMER DRILLING, MUD SLURRY DISCHARGE.SUITABLE FOR THE CONSTRUCTION OF BROKEN LAYER, SAND AND PEBBLE LAYER AND OTHER STRATA WITH LARGE WATER CONTENT
- 钻杆、套管复合钻进
  DRILL PIPE AND CASING COMPOSITE DRILLING







MDL-150X2 锚固旋喷一体钻机
ANCHOR JET GROUTING DRILLING RIG

SCENE 适用场景

锚固/旋喷施工两用机型，在某些软土层施工时，钻孔和旋喷可一次完成，配置了增高副塔，便于一次加接多根钻杆，可一次旋喷成桩，工作效率高。

Anchoring/jet grouting construction dual-use model,in some soft soil layer construction,drilling and rotary spraying can be completed at once.

Equipped with a heightening sub-tower,it is convenient to add and connect multiple drilling rods at one time,and it can be used for rotary spraying piles at one time,with high working efficiency.

PARAMETERS 主要参数

名称/Name	MDL-150X2
钻杆直径/Drill pipe diameter(mm)	ϕ60/ϕ73/ϕ76/ϕ89
输出扭矩/Output torque(Nm)	7000
输出转速/Output speed(r/min)	0~138
动力头行程/Power head stroke(mm)	3400
动力头额定提升力/Rated lifting force of power head(KN)	70
动力头额定加压力/Power head rated pressure(KN)	36
动力头提升速度/Lifting speed of power head(m/min)	0~5可调、7、23、30
动力头加压速度/Power head pressurizing speed(m/min)	10、14、46、59
推进架滑移行程/Sliding stroke of propulsion frame(mm)	1200
不接杆一次成桩最大深度 Maximum depth of pile formation without rod connection(m)	14.5+3选配
履带行走速度/Crawler traveling speed(km/h)	0.58
工作状态外形尺寸/Working state size L×W×H	4270×3656×16935
运输状态外形尺寸/Transportation size L×W×H	5420×2180×2400
重量/Weight(kg)	7100
输入总功率(电机)/Input power (motor)(kw)	55+18.5+3



施工特点
CHARACTERISTIC

- 动力头为通孔液压卡盘式更换不同的卡瓦可夹持多种钻杆、通用性好
  THE POWER HEAD IS A THROUGH-HOLE HYDRAULIC CHUCK TYPE, REPLACING DIFFERENT CHUCKS CAN CLAMP A VARIETY OF DRILL RODS,GOOD VERSATILITY
- 相较同类型钻机扭矩更大能适应更多复杂工况
  HIGHER TORQUE COMPARED TO SIMILAR DRILLING RIGS.IT CAN ADAPT TO MORE COMPLEX WORKING CONDITIONS
- 配置:孔口扶正器 卸扣夹持器
  CONFIGURATION: ORIFICE STABILIZER BUCKLE GRIPPER
- 优异的钻杆导向性能 装卸钻杆的能力
  EXCELLENT DRILL PIPE GUIDANCE AND ABILITY TO LOAD AND UNLOAD DRILL PIPE







MDL-H 举升多功能钻机

LIFTING MULTI-PURPOSE DRILLING RIG

SCENE 适用场景

根据国内地铁、隧道、高边坡、高层建筑、机场、地源热泵及其它深基坑进行管棚、锚固、旋喷、降水所开发的高举升多功能钻机。

High-lift multifunctional drilling rig developed according to the domestic subway,tunnel, high slope,high-rise buildings,airports,ground-source heat pumps and other deep foundation pits for pipe scaffolding,anchoring,jet grouting and waterfalling.

PARAMETERS 主要参数

名称/Name	MDL-150H	MDL-180H
钻孔直径/Drilling diameter(mm)	φ150~φ250	φ150~φ250
钻孔深度/Drilling depth(m)	170~130	180~80
钻杆直径/Drill pipe diameter(mm)	φ73/φ89/φ102/φ114	φ73/φ89/φ102/φ114
钻杆倾角/Drill pipe inclination angle(°)	0-90	0-90
水平最大举升高度/Maximum horizontal lifting height(m)	3.4	3.4
回转输出扭矩/Rotary output torque(Nm)	7500	10000
回转器行程/Stroke of rotary(mm)	3400	3400
回转器提升力/Lifting force of rotor(kN)	70	70
回转器提升速度/Lifting speed of rotor(m/min)	0~5可调/7/23/30	0~1.4可调/9/33
回转器加压力/Slewing force(kN)	36	36
重量/Weight(Kg)	7000	7200
运输尺寸长×宽×高/Transportation size(mm)L×W×H	5600×2200×2100	5590×2250×2300
输入功率（柴油机）/Input power (diesel engine)(Kw)	92(康明斯)	132(康明斯)
输入功率（电动机)/Input power (electric motor)(Kw)	55+18.5+3	55+22+3



施工特点 CHARACTERISTIC

- 三翼钻头钻进、泥浆排渣 适用于土层、沙层等地层
  THREE WING DRILL BIT DRILLING, MUD DISCHARGE.SUITABLE FOR SOIL LAYERS,SAND LAYERS, AND OTHER GEOLOGICAL FORMATIONS
- 空气潜孔锤钻进、空气排渣 适用于岩层、破碎层施工
  AIR DRILLING WITH AIR-DRILLING HAMMER AND AIR-DISCHARGING. SUITABLE FOR ROCK LAYER, BROKEN LAYER CONSTRUCTION
- 孔底液动锤钻进、泥浆排渣 适用于破碎层、沙卵层等含水量较大地层施工
  BOTTOM-OF-HOLE FLUID-ACTIVATED HAMMER DRILLING, MUD SLURRY DISCHARGE. SUITABLE FOR THE CONSTRUCTION OF BROKEN LAYER, SAND AND PEBBLE LAYER AND OTHER STRATA WITH LARGE WATER CONTENT
- 套管钻进
  CASING DRILLING
- 单重、双重、三重旋喷、定喷、摆喷等旋喷和扩大头锚索工艺
  SINGLE, DOUBLE AND TRIPLE JET GROUTING,FIXED JET GROUTING PENDULUM JET GROUTING AND OTHER JET GROUTING AND EXPANDING HEAD ANCHOR PROCESSES
- 钻杆、套管复合钻进
  DRILL PIPE AND CASING COMPOSITE DRILLING









MD-A/D/P 分体式钻机（坑道/地下室）等系列

SPLIT DRILLING RIG (PIT/BASEMENT) AND OTHER SERIES

针对坑道内进行锚固孔、支护孔、排水孔、危岩体加固等施工需要而设计。

Designed to meet the needs of construction of anchoring holes,support holes,drainage holes,and reinforcement of dangerous rock bodies in the trench.



整机散装布置
可在紧张的作业现场任意布置

The whole machine is arranged in bulk and can be arbitrarily arranged in the tight operation site

分散件单体重量轻、搬迁容易
劳动强度低

The dispersed parts are light in weight per unit,easy to relocate and low labor intensity

管路部分采用高端快速接头
方便快速安全组装

The piping part adopts high-end quick coupling,which is convenient for quick and safe assembly

整机重心及总标高低
可用于专门低位孔的施工

The low center of gravity and total elevation of the whole machine can be specially used for the construction of low level holes

PARAMETERS 主要参数

名称/Name	MD-100A	MD-120A	MD-150D	MD-C150
钻孔直径/Drilling diameter(mm)	ф120-ф250	ф150-ф250	ф150-ф250	ф150-ф250
钻孔深度/Drilling depth(m)	120~80	140~100	170~130	170~130
钻杆直径/Drill pipe diameter (mm)	ф73-ф114	ф73-ф114	ф73-ф146	ф73-ф146
钻杆角度/Drill pipe angle(°)	-10~90	-10~90	0~90	0~90
回转器输出转速/Rotor output speed(r/min)	12~100	18~108	10~170	10~75
回转器输出扭矩/Rotor output torque(Nm)	5500	7000	7500	9500
回转器提升力/Rotor lifting force(kN)	62	70	70	70
回转器给进力/Rotor feeding force(kN)	32	36	36	36
给进进程/Feeding process(mm)	1800	1800	1200(可定制)	1500(可定制)
输入功率(电动机)/Input power(motor)(Kw)	37+2.2	45+2.2	55+22	37+30+2.2
总重量/Total weight(kg)	2800	2800	3200	3800
运输状态外形尺寸/External dimension in transportation condition(mm)	3400×650×1500	3400×680×1500	3315×1500×1375	2800×600×700

MD-A 分体式锚固钻机（边坡）系列

SPLIT ANCHOR DRILLING RIG (SLOPE) SERIES

适用于水电站工程、铁路、公路边坡大吨位预应力锚杆支护孔、排水孔施工，以及危岩体锚固等地质灾害治理工程。

Suitable for hydropower station project,railroad,highway slope large tonnage prestressing anchor support hole,Drainage hole construction,as well as dangerous rock body anchoring and other geological disaster management projects.



结构紧凑、重量轻
解体性强、便于搬迁和安装

Compact, lightweight,disassembling Easy to relocate and install

不稳定地层用套管护壁开孔
常规球齿钻头终孔、钻进效率高
成孔质量好

The unstable formation is opened with casing wall protection and conventional ball tooth bit final hole,which has high drilling efficiency and good hole formation quality

钻机钻孔角度范围大
滑架可沿底架前后滑移
钻孔定位方便、可靠

The drill rig has a wide range of drilling angles.The slide frame can slide back forth along the base frame,which makes drilling positioning convenient reliable

钻机中心低
钻具上下方便

The center of the rig is low, it is easy to get on and off the drilling tools

PARAMETERS 主要参数

名称/Name	MD-50	MD-60A	MD-80A
钻孔直径/Drilling diameter(mm)	ф110-ф180	ф90-ф185	ф100-ф210
钻孔深度/Drilling depth(m)	60~50	80~50	100~60
钻杆直径/Drill pipe diameter (mm)	ф73-ф89	ф73-ф89	ф89、ф102、ф114
钻杆角度/Drill pipe angle(°)	-10~90	-10~90	10~90
回转器输出转速/Rotor output speed(r/min)	20/40/56/111/167	12/25/50/60/100/130	15/30/40/55/75/110
回转器输出扭矩/Rotor output torque(Nm)	2000	2500	4200
回转器提升力/Rotor lifting force(kN)	25	40	70
回转器给进力/Rotor feeding force(kN)	17	25	36
给进进程/Feeding process(mm)	1700	1800	1800
输入功率(电动机)/Input power(motor)(Kw)	18.5	22+1.5	30+2.2
总重量/Total weight(kg)	1200	2300	2600
运输状态外形尺寸/External dimension in transportation condition(mm)	2978×700×1205	3400×650×1500	3400×650×1500