

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

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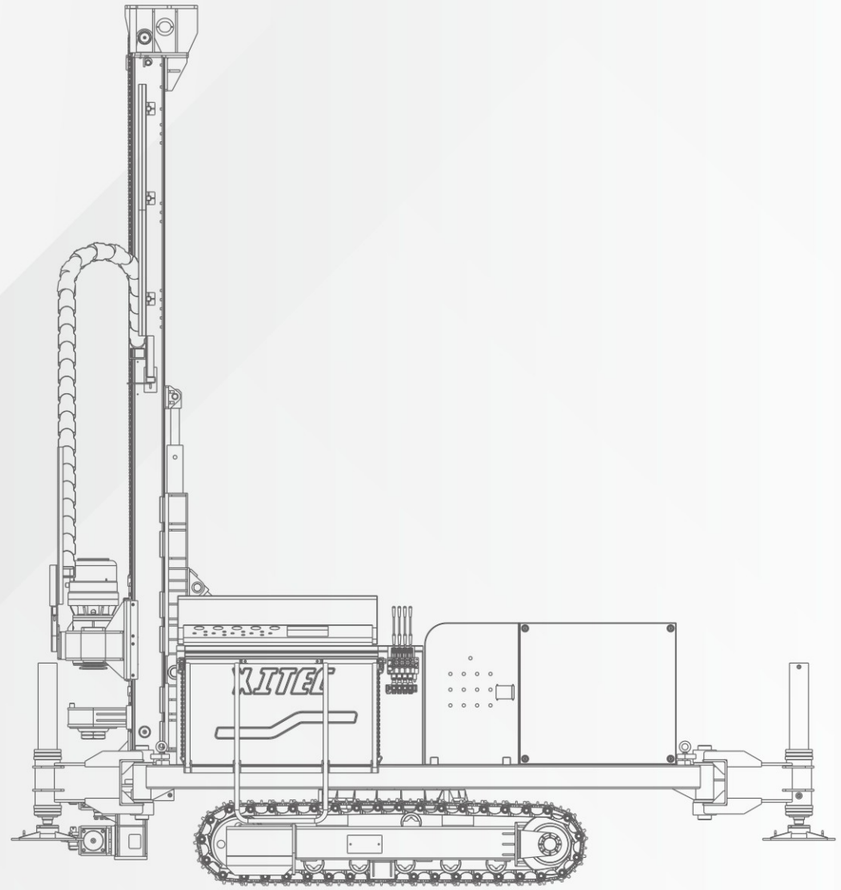
XITEC

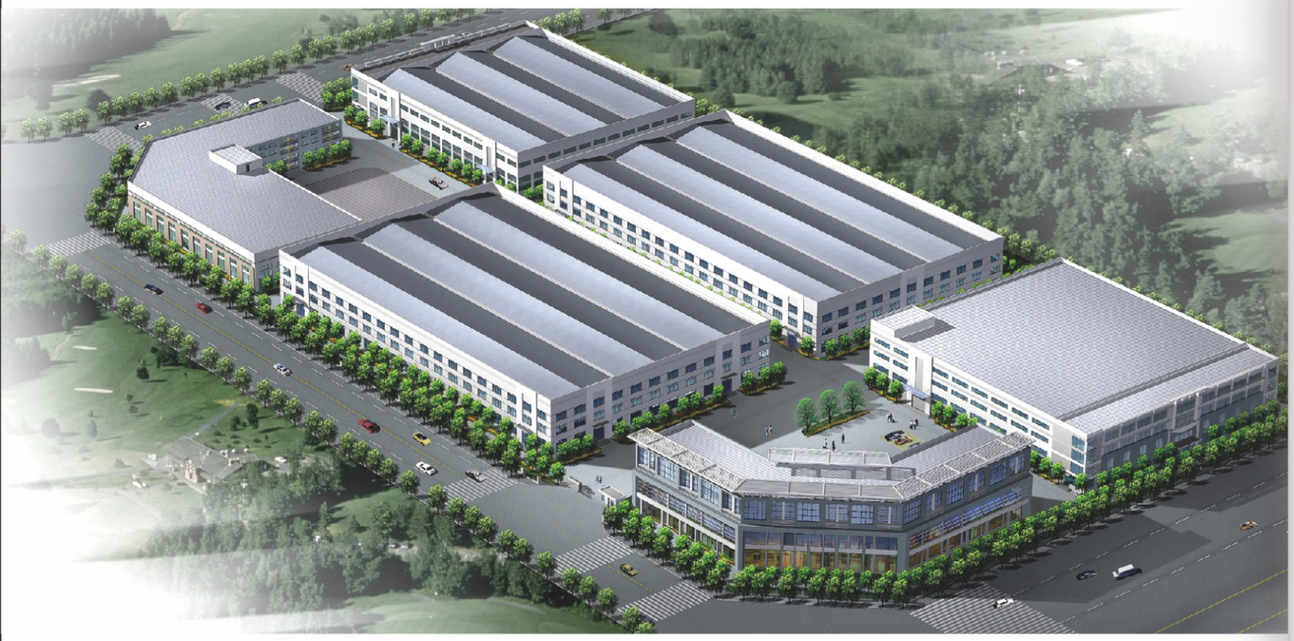


A LEADER IN
THE FIELD OF PROFESSIONAL DRILLING EQUIPMENT

PRODUCT SAMPLE BOOKLET

ABOUT XITAN TECHNOLOGY

Established in 1956Inheriting Classics
Casting Excellence, Specialization
Precision, and Innovation



TIME GIANT MAJESTIC FORCE

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

1956年

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

2003年

Complete the overall
restructuring and establish
a modern enterprise system

2009年

Jiangsu Exploration
Machinery Engineering
Technology Research Center

2017年

New XITEC New Journey



2020年

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

2021年

Wuxi Gazelle Enterprise
Jiangsu Province Postdoctoral Innovation Practice Base

2023年

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

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XT-500

PHOTOVOLTAIC DRILLING MACHINE

SCENE

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

Name	XT-500A
Borehole diameter (mm)	ϕ150～ϕ350
Drilling depth(m)	0～35
Hole Angle (°)	0～90
Drill pipe diameter(mm)	Φ73、Φ89、Φ102、Φ114
Output torque (Nm)	7500
Output speed(r/min)	10/20/30/35/40/60/65/70/85/130/170
Lifting speed(m/min)	0~5 Adjustable、7、23、30
Feed speed(m/min)	0~10 Adjustable、14、46、59
Rated lifting force (kN)	70
Rated feeding force (kN)	36
Feeding process (mm)	3400
Slip stroke (mm)	900
Power	Commins
Power	92kW
Weight(kg)	7000
Crawling angle	25°
Transport diameter (L*W*H, mm)	6200×2100×2350
Vertical operation diameter (L*W*H, mm)	3600×2500×6200









CHARACTERISTIC

- THREE-WING BIT DRILLING, MUD DRAINAGE;SUITABLE FOR HIGH-SPEED DRILLING IN SOIL,SAND AND OTHER STRATA
- AIR DRILLING WITH DTH HAMMER AND AIR-DRIVEN SLAG REMOVAL.SUITABLE FOR THE CONSTRUCTION OF BROKEN LAYER.
- HYDRAULIC DUST REMOVAL SYSTEM, TO PROTECT THE ENVIRONMENT, CAN MEET THE ENVIRONMENTAL REQUIREMENTS OF THE MINE
- CASING DRILLING
- DRILL PIPE AND CASING COMPOSITE DRILLING
- THE DRILLING RIG IS COMPACT AND STABLE IN CONSTRUCTION



XT-15E

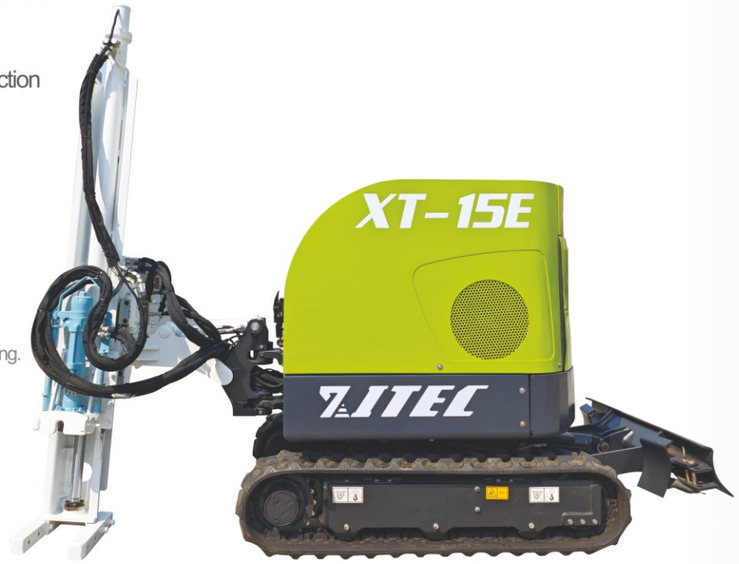
FARMLAND SAMPLING ROBOT

Widely used in Farmland plant protection and intelligent agriculture.

The micro-excavation chassis is flexible and reliable.

Highly efficient impact head for efficient sampling.

Pure electric mode environmental protection and low carbon.



PARAMETERS

Name	XT-15E
Drilling diameter(mm)	≤ϕ60
Drilling depth(m)	≤12
Stroke of probe(mm)	1500
Probe tilt angle(°)	70~100
Sounder deflection angle(°)	±18
Rated lifting force(kN)	60
Rated pressure(kN)	30
Impact frequency(bpm)	1700
Impact power(kw)	7.5
Traveling speed(km/h)	2/4
Climbing capacity(°)	30
Total width of track(mm)	1080/1400
Width of track plate(mm)	230
Track length(mm)	1585
Minimum ground clearance(mm)	145
Working height(mm)	3500
Transportation dimension(L×WxH)(mm)	3065×1080×1800
Weight(kg)	1900
Ground specific pressure(kg/cm2)	0.34

QY-15L

FARMLAND SAMPLING ROBOT

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

Micro Soil Drilling Rig,Fully Intelligent Controls

Highly efficient impact head for efficient sampling

Lightweight and compact,flexible and reliable chassis

Optional pure electric mode,environmentally friendly



PARAMETERS

Name	QY-15L
Drilling diameter(mm)	≤ ϕ60
Drilling depth(m)	≤12
Stroke of probe(imm)	1500
Probe tilt angle(°)	70 ~100
Sounder deflection angle(°)	±18
Rated lifting force(kN)	60
Rated pressure(kN)	30
Impact frequency(bpm)	1700
Impact power(kw)	7.5
Engine	YANMAR
Power(kw/rpm)	15.1/2400
Traveling speed(km/h)	2/4
Climbing ability(°)	30
Total width of track(mm)	1080/1400
Width of track plate(mm)	230
Track length(mm)	1585
Minimum ground clearance(mm)	145
Working height(mm)	3500
Transportation dimension(L×Wx H)(mm)	3065×1080×1800
Weight(kg)	1900
Ground pressure(kg/cm2)	0.34

QF-150X^{max}

ENVIRONMENTAL REMEDIATION WORKSTATIONS

Soil and groundwater remediation by in situ chemical injection.



Through-hole hydraulic chuck type powerheads.Good versatility.

High torque,can adapt to more complex working conditions.

Equipped with orifice holders and buckle grippers.

Excellent drill pipe guidance and drill pipe loading and unloading capabilities

PARAMETERS

Name	QF-150X ^{max}
Spindle bore(mm)	ϕ60/ϕ73/ϕ76/ϕ89
Output torque(Nm)	7000
Output speed(r/min)	0~138
Power head stroke(mm)	3400
Lifting force of power head(kN)	70
Feeding force of power head(kN)	36
Lifting speeding of power head(m/min)	0~5 Adjustable、7、23、30
Feeding speeding of power head(m/min)	10、14、46、59
Stroke of slide frame(mm)	1200
Walking speed of caterpillar chassis(km/h)	0.58
Operation dimension(mm)L×W×H	4270×3656×16935
Transport dimension(mm)L×W×H	5420×2180×2400
Weight(kg)	7100
Input power(electromotor)(kW)	55+18.5+3
Maximum pile depth without connecting rod(m)	14.5



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



- 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

Small&Aesthetic
Professional&Powerful

QY 60L^{pro}

QY 100L^{pro}

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



- 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}

ENVIRONMENTAL SAMPLING ROBOT

SCENE

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



PARAMETERS

Name	QY-60L^{pro}
Spiral power head	
High torque (Nm)	3400
Low torque (Nm)	970
High speed (rpm)	230
Low speed (rpm)	90
外六方/Output form:Outer hexagonal	1-5/8'
冲击动力头/Impact power head	
Impact frequency (bpm)	1600~1900
Impact power (kW)	9
Torque (Nm)	700~900
Speed (rpm)	0~260
Power head lifting force (kN)	220
Propulsion force of power head (kN)	140
Hydraulic winch lifting force (kN)	10
Power head stroke (mm)	2000
Weight of drilling rig (kg)	5000
Transport dimensions (L×W×H)(mm)	3500×1900×2500
Working dimensions (L×W×H)(mm)	4500×1900×4800
Rated power (kW)	93
Front and rear sliding of the frame (mm)	400
Frame deflection angle (°)	±10
Tower lifting angle (°)	25~100
Derrick inclination angle (°)	-15~15
Rear hanger capacity (kg)	900
Walking speed (km/h)	2.5~4.5
Ground specific pressure (kg/cm²)	0.46

CHARACTERISTIC

- SAMPLING AND RESTORATION IN ONE IN ONE
- HIGH POWER IMPACT POWER HEAD
- HIGH TORQUE HELICAL POWER HEAD
- TILT OPERATION
- REAL-TIME INFORMATION FEEDBACK SYSTEM
- WIRELESS REMOTE CONTROL MODE
- CONSTRUCTION STABILITY
- MEET THE LATEST COUNTRIES EMISSION REQUIREMENTS









QY-100L^{pro}

ENVIRONMENTAL SAMPLING ROBOT

SCENE

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

PARAMETERS

Name	QY-100L^{pro}
Integrated impact and rotation power head	
High torque (Nm)	5600
Low torque (Nm)	1800
High speed (rpm)	80
Low speed (rpm)	20
Output form	∅69-65
Impact frequency (bpm)	1900
Impact power (kW)	12
Power head lifting force (kN)	260
Propulsion force of power head (kN)	185
Hydraulic winch lifting force (kN)	12
Power head stroke (mm)	2000
Weight of drilling rig (kg)	6000
Transport dimensions (L×W×H)(mm)	4000×1980×2400
Working dimensions (L×W×H)(mm)	4200×1980×4800
Rated power (kW)	93
Front and rear sliding of the frame (mm)	450
Tower lifting angle (°)	25~100
Derrick inclination angle (°)	-15~15
Rear hanger capacity (kg)	1200
Walking speed (km/h)	2.8~4.2
Ground specific pressure (kg/cm^2)	0.36





CHARACTERISTIC

- INTEGRATED IMPACT AND ROTATION POWER HEAD
- THE POWER HEAD CARRIAGE CAN MOVE HORIZONTALLY
- SELF RESETTING CROWN BLOCK MECHANISM
- OPEN CLOSE CONTROL CABINET
- WIRELESS REMOTE CONTROL AND HYDRAULIC CONTROL OPERATION
- DUAL CYLINDER REAR HANGER
- TILTING OPERATION
- LOAD SENSITIVE ELECTRO-HYDRAULIC PROPORTIONAL HYDRAULIC SYSTEM,ENERGY-SAVING AND EFFICIENT













BW-80

INJECTION CART

SCENE

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

PARAMETERS

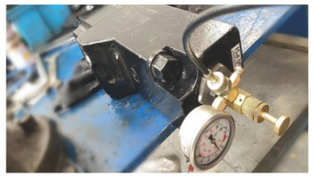
Name	BW-80
Weight kg	90
Power	Honda G×270
Total capacity KW/PS	6.6/9
Rated pressure bar	45
Rated flow rate L/min	30
Fuel tank capacity L	6.0
Average fuel consumption g/kWh	313
Full power continuous working time	Approximately three hours
Injection flow rate/Pressure detection	Optional













CHARACTERISTIC

- CONVENIENT MOBILITY
- CONVENIENT MAINTENANCE AND SUFFICIENT SUPPLY OF ACCESSORIES
- STABLE FLOW AND PRESSURE
- EQUIPPED WITH A GASOLINE ENGINE,NO ADDITIONAL POWER SOURCE IS REQUIRED
- 316 STAINLESS STEEL PUMP HEAD, RESISTANT TO CONVENTIONAL OXIDATION CORROSION
- OPTIONAL NON-METALLIC PUMP HEAD FOR SPECIAL DRUG INJECTION
- UNIQUE PUMP HEAD STRUCTURE, CAPABLE OF INJECTING MIXTURES WITH PARTICLES
- FULLY MECHANICAL OPERATION, SAFE AND RELIABLE
- OPTIONAL INJECTION FLOW RATE AND PRESSURE DETECTION

XY

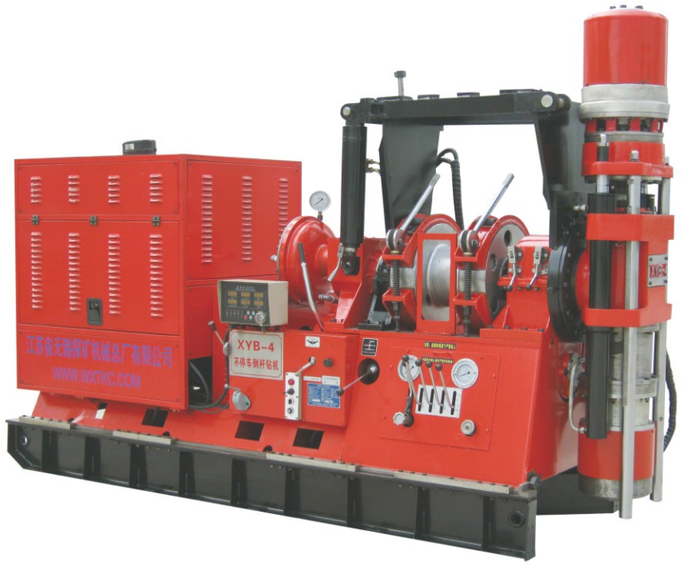
CORE DRILLING RIG SERIES

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

CORE/ENGINEERING DRILLING RIGS



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

GXY/GYQ

SURVEY DRILLING RIG SERIES

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

SERIES VEHICLE-MOUNTED MULTIFUNCTIONAL DRILLING RIGS

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

ELEVATED JET GROUTING DRILLING RIG SERIES

SCENE

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

Name	XPG-65
Jet grouting construction	Single, Double, Triple
Pile diameter(mm)	400-600、600-1200、800-1600
Maximum piling depth without jointing(m)	26+3 Optional
Drilling diameter(mm)	ϕ150-ϕ250
Drilling depth(m)	60~80
Diameter of drill pipe(mm)	ϕ50、ϕ60、ϕ73、ϕ76、ϕ89
Drill pipe inclination angle (°)	0~90
Rotor output speed(r/min)	0~12.5/0~25/50/62/100/125
Rotor output torque (Nm)	7000
Stroke of rotor(mm)	4000
Lifting force of rotor(kN)	70
Lifting speed of rotor(m/min)	0-1.3,8/18/27
Rotor pressurizing force(kN)	36
Rotor pressurizing speed(m/min)	2.5,16/36/53







CHARACTERISTIC

- FOLDABLE 5-22M SUB-TOWER ADDED
- ONE ROD TO THE BOTTOM,REDUCING THE NUMBER OF TIMES DRILLING TOOLS ARE DISASSEMBLED SAVE TIME AND MATERIALS REDUCE QUALITY HAZARDS
- THE THROUGH-HOLE DIAMETER OF 92 ENSURES89 UNOBSTRUCTED PASSAGE OF THE DRILL PIPE
- MEET THE REQUIREMENTS OF TRIPLE JET GROUTING CONSTRUCTION AND ANCHORING CONSTRUCTION
- HYDRAULIC CHUCK STRUCTURE DRILLING TOOLS CHANGE MORE CONVENIENT FREE
- JET GROUTING WITHOUT PILOT HOLES IS POSSIBLE IN MOST FORMATIONS
- THE DRILLING RIG ADOPTS A DUAL WINCH AND MOTOR CONTROL STEP SHIFT AND HIGH WORK EFFICIENCY
- SAFE AND RELIABLE, HIGH EFFICIENCY, AND LOW COST

XP

LOW-FRAME JET GROUTING DRILLING RIG SERIES

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



Requires little working space is extremely convenient when relocating and migrating

Complete set of drilling tools

Multiple configuration components,such as single,double and triple modules

Wide range of processes,can be used in the construction of the anchoring process

PARAMETERS

Name	XP-20A	XPL-20A	XP-25
Pile diameter(mm)	Single:400~600、Double:600~1200、Triple:800~1600		
Hole depth(m)	30-50		30-50
Borehole diameter(mm)	90-185		90-185
Output torque(Nm)	3600		3500
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
Power head lifting force(kN)	40		25
Power head lifting force(kN)	25		17
Lifting speed(m/min)	0-0.7(Infinitely adjustable) 0.7/6		0-1(Infinitely adjustable)6
Power head stroke(m)	1.8 (2.3m/3.4m Optional)		1.8(1.5m/2.3m Optional)
Traveling speed(km/h)	8		
Motor power(kW)	22+1.5		30+1.5
Weight(kg)	1800	3900	1500
Dimension in construction condition(mm)L×W×H	3100×1500×3050	3300×2500×4100	3050×1535×3068
Transportation size(mm)L×W×H	3100×1500×1500	3200×2000×2050	3050×1535×1510

QJS-50L

INTELLIGENT AND EFFICIENT JET GROUTING DRILLING RIG

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.



Through-hole power head up to ∅145 mm for large-diameter ultra-high-pressure jet grouting spraying operations.

Long distance construction with one pole to the end
Improved work efficiency

PARAMETERS

Name	MJS-50L
Maximum piling depth(m)	15
Chuck diameter(mm)	145
Output torque(Nm)	8000
Output speed(r/min)	0~45、0~90
Power head stroke(mm)	4000
Rated lifting force of power head(kN)	85
Rated pressure of power head(kN)	50
Lifting speed of power head(m/min)	0-6.1
Power head pressurizing speed(m/min)	0-10.3
Clamping range(mm)	60-220
External dimension in working condition(mm)	6200×3300×17800
External dimension in transportation condition(mm)	7600×3000×3000
Weight(kg)	16000
Input power(kW)	45+15



MDL-C

TOP DRIVE MULTIFUNCTIONAL DRILLING RIG SERIES

The top-driven percussion multifunctional rilling 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.



High efficiency and good effect of hole formation.

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

Effectively reduce construction costs and risks

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

PARAMETERS

Name	MDL-C150	MDL-C180	MDL-C200
Drilling diameter(mm)	ϕ150~ϕ250	ϕ150~ϕ250	ϕ150~ϕ250
Drilling depth(m)	100~80	180~150	200~150
Drill pipe inclination angle(°)	0~90	0~110	0~100
Diameter of drill pipe(mm)	Withinϕ76~ϕ89,Outsideϕ127~ϕ146	Withinϕ76~ϕ114,Outsideϕ133~ϕ168	Withinϕ89~ϕ114,Outsideϕ133~ϕ219
Rotor output torque(Nm)	9500	10500	14000
Impact work(N.M)	450	800	900
Impact frequency(min-1)	1300	2500	1200-2100
Rated lifting force(kN)	62	78	78
Rated feeding force(kN)	32	40	40
Feed stroke(mm)	2600	3200	3800
Weight(Kg)	6800	7800	8800
Overall dimension(mm)LxWxH	5400×2100×2000	5400×2200×2250	6900×2180×2600
Input power (diesel engine) (Kw)	92(Commins)	103(Commins)	125(Commins)
Input power (motor)(Kw)	55+18.5+3	55+22+3	75+37+4

MDL-185T

MULTI-PURPOSE DRILLING RIG WITH AUTOMATIC LOADING

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.



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

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

PARAMETERS

Name	MDL-185T
Drilling diameter(mm)	ϕ150~ϕ250
Drilling depth(m)	200-150
Drill pipe diameter(mm)	60、73、89
Drill pipe inclination angle(°)	0~90
Power head torque(Nm)	13000
Power head stroke(mm)	5000
Rated lifting force of power head(kN)	70
Rated lifting force of power head(kN)	36
Lifting speed of power head(m/min)	1.45-29.6
Power head pressurizing speed(m/min)	2.85-58.1
Clamping range(mm)	60-220
External dimension in working condition(mm)	4690×2200×7730
External dimension in transportation condition(mm)	7730×2200×2670
Weight(kg)	7200
Input power(kW)	55+22+2.2

MDL-D

DEEP FOUNDATION ANCHOR DRILLING RIG SERIES

SCENE

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.



CHARACTERISTIC

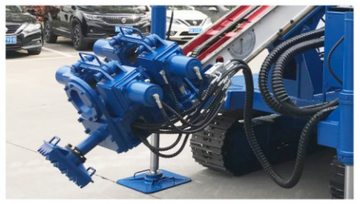
- THREE-WING BIT DRILLING,MUD DRAINAGE;SUITABLE FOR HIGH-SPEED DRILLING IN SOIL,SAND AND OTHER STRATA
- AIR-DRILLED SUBMERGED HAMMER DRILLING,MUD DRAINAGE SUITABLE FOR CONSTRUCTION OF BROKEN LAYER
- BOTTOM-OF-HOLE FLUID-ACTIVATED HAMMER DRILLING, MUD SLURRY DISCHARGE.SUITABLE FOR THE CONSTRUCTION OF BROKEN LAYER, SAND AND PEBBLE LAYER AND OTHER STRATA WITH LARGE WATER CONTENT
- DRILL PIPE AND CASING COMPOSITE DRILLING

PARAMETERS

Name	MDL-150D	MDL-180D
Drilling diameter(mm)	ϕ150~ϕ250	ϕ150~ϕ250
Drilling depth(m)	170~130	200~150
Drill pipe diameter(mm)	ϕ73/ϕ89/ϕ102/ϕ114	ϕ73/ϕ89/ϕ102/ϕ114
Rotor output torque(Nm)	7500	11000
Stroke of rotor(mm)	3400	3400
Pusher feed stroke(mm)	900	900
Lifting force of rotor(kN)	70	70
Lifting speed of rotator(m/min)	0~5 Adjustable/7/23/30	0~5 Adjustable/7/23/30
Rotor pressurizing force(kN)	36	36
Rotor pressurizing speed(m/min)	0~10 Adjustable/14/46/59	0~10 Adjustable/14/46/59
Input power (motor)(kw)	55+18.5	55+22+4
Input power (diesel engine)(kW)	92(Commins)	132(Commins)
Weight(kg)	6000	6350
Transportation dimension(mm)L×W×H	5400×2100×2000	5400×2100×2100







MDL-150X2

ANCHOR JET GROUTING DRILLING RIG

SCENE

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

Name	MDL-150X2
Drill pipe diameter(mm)	ϕ60/ϕ73/ϕ76/ϕ89
Output torque(Nm)	7000
Output speed(r/min)	0~138
Power head stroke(mm)	3400
Rated lifting force of power head(KN)	70
Power head rated pressure(KN)	36
Lifting speed of power head(m/min)	0~5 Adjustable、7、23、30
Power head pressurizing speed(m/min)	10、14、46、59
Sliding stroke of propulsion frame(mm)	1200
Maximum depth of pile formation without rod connection(m)	14.5+3 Optional
Crawler traveling speed(km/h)	0.58
Working state size L×W×H	4270×3656×16935
Transportation size L×W×H	5420×2180×2400
Weight(kg)	7100
Input power (motor)(kw)	55+18.5+3



CHARACTERISTIC

- THE POWER HEAD IS A THROUGH-HOLE HYDRAULIC CHUCK TYPE, REPLACING DIFFERENT CHUCKS CAN CLAMP A VARIETY OF DRILL RODS,GOOD VERSATILITY
- HIGHER TORQUE COMPARED TO SIMILAR DRILLING RIGS.IT CAN ADAPT TO MORE COMPLEX WORKING CONDITIONS
- CONFIGURATION: ORIFICE STABILIZER BUCKLE GRIPPER
- EXCELLENT DRILL PIPE GUIDANCE AND ABILITY TO LOAD AND UNLOAD DRILL PIPE







MDL-H

LIFTING MULTI-PURPOSE DRILLING RIG

SCENE

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

Name	MDL-150H	MDL-180H
Drilling diameter(mm)	ϕ150~ϕ250	ϕ150~ϕ250
Drilling depth(m)	170~130	180~80
Drill pipe diameter(mm)	ϕ73/ϕ89/ϕ102/ϕ114	ϕ73/ϕ89/ϕ102/ϕ114
Drill pipe inclination angle(°)	0-90	0-90
Maximum horizontal lifting height(m)	3.4	3.4
Rotary output torque(Nm)	7500	10000
Stroke of rotary(mm)	3400	3400
Lifting force of rotor(kN)	70	70
Lifting speed of rotor(m/min)	0~5Adjustable/7/23/30	0~1.4Adjustable/9/33
Slewing force(kN)	36	36
Weight(Kg)	7000	7200
Transportation size(mm)L×W×H	5600×2200×2100	5590×2250×2300
Input power (diesel engine)(Kw)	92(Commins)	132(Commins)
Input power (electric motor)(Kw)	55+18.5+3	55+22+3











CHARACTERISTIC

- THREE WING DRILL BIT DRILLING, MUD DISCHARGE.SUITABLE FOR SOIL LAYERS,SAND LAYERS, AND OTHER GEOLOGICAL FORMATIONS
- AIR DRILLING WITH AIR-DRILLING HAMMER AND AIR-DISCHARGING. SUITABLE FOR ROCK LAYER, BROKEN LAYER CONSTRUCTION
- 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
- CASING DRILLING
- SINGLE, DOUBLE AND TRIPLE JET GROUTING,FIXED JET GROUTING PENDULUM JET GROUTING AND OTHER JET GROUTING AND EXPANDING HEAD ANCHOR PROCESSES
- DRILL PIPE AND CASING COMPOSITE DRILLING

MD-A/D/P

SPLIT DRILLING RIG (PIT/BASEMENT) AND OTHER SERIES

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



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

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

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

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

PARAMETERS

Name	MD-100A	MD-120A	MD-150D	MD-C150
Drilling diameter(mm)	ф120-ф250	ф150-ф250	ф150-ф250	ф150-ф250
Drilling depth(m)	120~80	140~100	170~130	170~130
Drill pipe diameter (mm)	ф73-ф114	ф73-ф114	ф73-ф146	ф73-ф146
Drill pipe angle(°)	-10~90	-10~90	0~90	0~90
Rotor output speed(r/min)	12~100	18~108	10~170	10~75
Rotor output torque(Nm)	5500	7000	7500	9500
Rotor lifting force(kN)	62	70	70	70
Rotor feeding force(kN)	32	36	36	36
Feeding process(mm)	1800	1800	1200(可定制)	1500(可定制)
Input power(motor)(Kw)	37+2.2	45+2.2	55+22	37+30+2.2
Total weight(kg)	2800	2800	3200	3800
External dimension in transportation condition(mm)	3400×650×1500	3400×680×1500	3315×1500×1375	2800×600×700

MD-A

SPLIT ANCHOR DRILLING RIG (SLOPE) SERIES

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.



Compact, lightweight,disassembling Easy to relocate and install

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

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

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

PARAMETERS

Name	MD-50	MD-60A	MD-80A
Drilling diameter(mm)	ф110-ф180	ф90-ф185	ф100-ф210
Drilling depth(m)	60~50	80~50	100~60
Drill pipe diameter (mm)	ф73-ф89	ф73-ф89	ф89、ф102、ф114
Drill pipe angle(°)	-10~90	-10~90	10~90
Rotor output speed(r/min)	20/40/56/111/167	12/25/50/60/100/130	15/30/40/55/75/110
Rotor output torque(Nm)	2000	2500	4200
Rotor lifting force(kN)	25	40	70
Rotor feeding force(kN)	17	25	36
Feeding process(mm)	1700	1800	1800
Input power(motor)(Kw)	18.5	22+1.5	30+2.2
Total weight(kg)	1200	2300	2600
External dimension in transportation condition(mm)	2978×700×1205	3400×650×1500	3400×650×1500