



GEOTECHNICAL DRILLING TOOLS



WWW.DRILLMAXINTERNATIONAL.COM

Company Profile



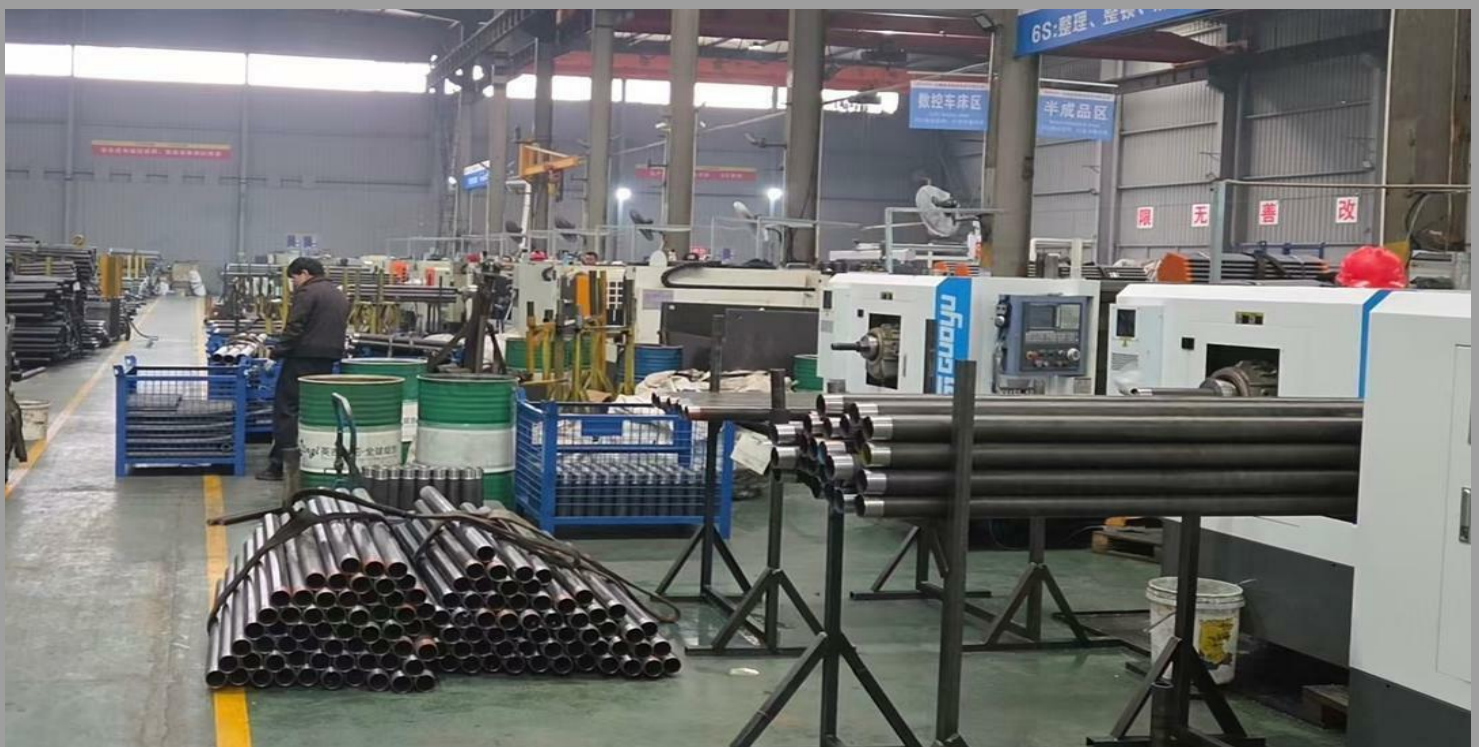
The company has a strong technical design and developing capabilities, and also has professional processing capacity.

Wuxi Drillmax provide products include: various size impregnated core bit, surface set core bit, PDC core bit, TSP core bit, diamond reaming shell, wireline drill rod, casing pipe, double tube core barrels assembly, triple tube core barrels, inner tube system, outer tube system, wireline coring overshot, all relating repair kits, and drilling tools like water swivel, hoisting plug, wrench, etc.

The company's products are widely used in Jiangsu, Shandong, Hebei, almost all provinces in China; and are also exported to India, Indonesia, Cambodia, Myanmar, countries in Africa, South American and Middle East Area.

Our company has passed ISO9001 quality management system, and we have official export license.

We sincerely welcome customers to visit and cooperate with us, we promise you high quality products and good service.





Drillmax Products

-Diamond Tool

Impregnated Core Bit, Surface Set Core Bit, PDC Coring Bit, PDC Non-coring Bit
Reaming Shell, Casing Shoe, Rod Shoe

-Drill Rod & Geological Casing

Wireline drill rod: B, N, H, P
Geological Casing: W casing pipe, WT Casing Pipe

- Core Barrel & Overshot Assembly

Wireline Core Barrel Assembly: B, N, H, P
Overshot Assembly: N, H, P

-Coring Accessories

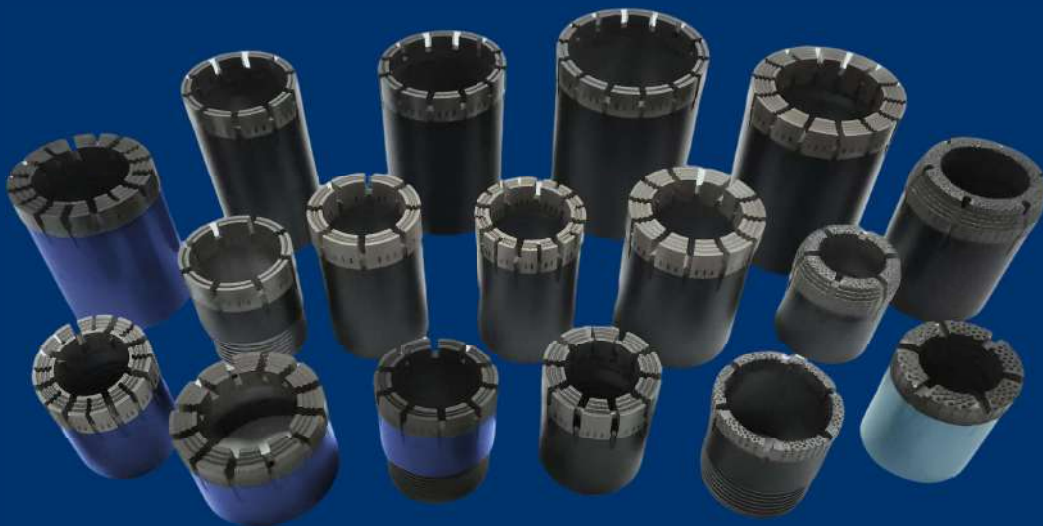
Rod wrench, outer tube wrench, inner tube wrench, water swivel, hoisting plug
loading chamber, rod cutter, casing cutter, adaptor subs, fishing tool & tap

Diamond Tool

Drilling is the technology to obtain physical information of the underground.

There are many tools of the drill string. Choosing the right core bit is important and can prove drilling efficiency.

Drillmax provides core bits with three main waterway configurations with matrix M3, M5, M7, M9, M9/11, M11, and M14.



Geological Drill Bit (Impregnated)



Diamond Core Bit Parameters

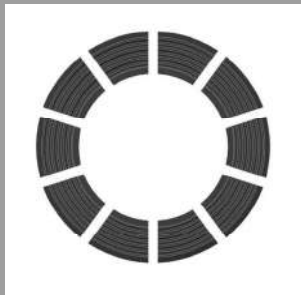
	Outer Diameter (MM)	Inner Diameter(MM)
B	59.5	36.3
N	75.3	47.6
H	95.6	63.5
P	122.0	85.0
B-2	59.5	40.7
N-2	75.3	50.8
H-2	95.6	66.0
B-3	59.5	33.5
N-3	75.3	45.1
H-3	95.6	61.1
P-3	122.0	83.0

Waterway Configurations & Crown Profile

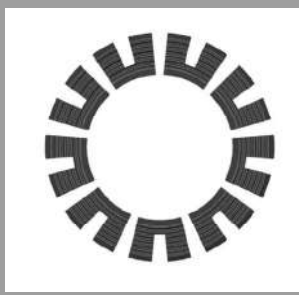
It is important to flush the cuttings away from the bit face in order to maximize the service life and performance of the drill bit.

Drillmax mainly provides core bits with three configurations-Standard, Turbo, and Face Discharge.

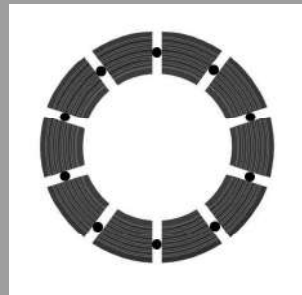
	Designed Qty. of Waterway	Remark
B	6	Other customized waterways
N	8	
H	10	
P	12	



Standard



Turbo



Face Discharge



* Crown Heights: 12mm, 14mm, 16mm, 20mm , and 26mm

Matrix Selection Chart

Matrix No.	Maxtric Feature	Rock Feature	Typical Rock Type
M 3	soft	Soft Stratum, Clay Layer	Ash Stone, Clay, Calcite, Coal, Peat, Sandy Pebble, Gypsum, Tuff, Argillire
M 5	medium soft	coarse grain size & fracture	Limonite, Sandstone, Lithoid Limestone
M7	medium hard	medium grain size & broken	Dolomitic, Marble Hard Schist, Hard Shale, Siltstone, Andesite, Hard Sandstone
M 9	medium hard	medium grain size & basically complete	Gneiss, Limonite, Peridotite
M9/11	hard	fine grain & complete formation	Gabbro, Peridotite, Grandiorite, Granite, Basalt, Pegmatite, Norite, Syenite
M11	very hard	fine grain & very complete formation	Quartzite, Diorite, Amphibolite, Rhyolite
M14	ultra hard	fine grain & very complete formation	Dense Quartzite, Hard Sandstone, Taconite , Ironstone, Jasperite, Chert, Silicious, Rhyolite



Geological Drill Bit (Surface Set)

Profile	Description	Size
	Step Type Surface Set Diamond Core Bit	B,N,H,P
	Semi-round Type Surface Set Diamond Core Bit	

Geological Drill Bit (PDC)

Profile	Description	Size
	PDC Coring Bit Long Service Life Wide Application	N,H,P
	PDC Non-Coring Bit Long Service Life Wide Application	

Reaming Shell

Reaming shell is provided to maintain hole gauge, hole direction and reduce wear of drilling tools due to vibration.

Drillmax provides two configurations of reaming shell: impregnated and surface set.



Reaming Shell Parameters

	Outer Diameter (MM)	Type
B	59.9	Impregnated Reaming Shell
N	75.7	
H	96.1	Surface Set Reaming Shell
P	122.6	

Multi-Rings Reaming Shell

	Type	Size
B	Two Rings & Four Rings	10 inch
N	Two Rings & Four Rings	
H	Two Rings & Four Rings	18 inch
P	Two Rings & Four Rings	

* Others: TW Series, T Series, MLC Series, WG Series, WM Series

Geological Drill Bit

Description	Outer Diameter (mm)	Inner Diameter (mm)
T2-46	46.0	31.7
T2-56	56.0	41.7
T2-66	66.0	51.7
T2-76	76.0	61.7
T2-86	86.0	71.7
T6-76	76.0	57.0
T6-86	86.0	68.0
T6-101	101.0	79.0
T6-116	116.0	93.0
T6-131	131.0	108.0
NMLC	75.3	52.2
HMLC	98.0	63.5
AWG	47.6	30.1
BWG	59.5	42.0
NWG	75.3	54.7
B36	36.0	21.7
B46	46.0	31.7
B56	56.0	41.7
B66	66.0	51.7
B76	76.0	61.7
B86	86.0	71.7
B101	101.0	86.7
B116	116.0	101.7
B131	131.0	116.7
B146	146.0	131.7

Rod Shoe

Description	Outer Diameter (mm)	Inner Diameter (mm)
N	75.3	60.2
H	92.0	76.2
P	117.6	99.7
HTW	95.0	80.5
PHD	117.6	99.7

Casing Shoe

Description	Outer Diameter (mm)	Inner Diameter (mm)
BW	75.3	60.3
NW	92.0	76.2
HW	117.6	99.7
HWT	117.6	101.1
PW	143.5	123.3
PWT	143.5	123.3

Profile Options



Wireline Drill Rod

Drill Rod - Wireline Drill Rod

Wireline drill rod is specialized tool used in geological exploration coring system. Choosing reliable drill rod is important for safety and efficiency work.

Drillmax provides high quality wireline drill rod that manufactured by high strength geological tube.



Wireline Drill Rod -Type 1

Specifications	Unit	B	N	H	P
Outer Diameter OD	mm	55.7	70.5	89.0	114.3
Inner Diameter ID	mm	46.1	60.3	77.8	101.6
Wall Thickness	mm	4.8	5.1	5.6	6.35
Thread Length	mm	44.45	44.45	44.45	63.5
Thread Pitch	mm	8.47	8.47	8.47	10.16
Available Length	mm	1500/3000	1500/3000	1500/3000	1500/3000
Weight	kg per rod	9.1 / 18.1	12.1 / 24.2	17.3 / 34.6	24.8 / 49.6
Tensile Strength	≥kN	297	387	504	585
Make-up Torque	N·m	399	684	1045	1140
Maximum Torque	N·m	1188	3420	4085	4655
Displacement Volume	L/m	1.7	2.9	4.8	8.1

Wireline Drill Rod -Type 2

Specifications	Unit	N	H
Outer Diameter OD	mm	70.5	89.0
Inner Diameter ID	mm	60.3	77.8
Wall Thickness	mm	5.1	5.6
Thread Length	mm	42	42
Thread Pitch	mm	8.47	8.47
Available Length	mm	1500 / 3000	1500 / 3000
Weight	kg per rod	12.1 / 24.2	17.3 / 34.6
Tensile Strength	≥kN	430	560
Make-up Torque	N·m	720	1100
Maximum Torque	N·m	3600	4300
Displacement Volume	L/m	2.9	4.8



Wireline Drill Rod- T Series

Specifications	Unit	B	N	H	P
Outer Diameter OD	mm	55.7	70.5	89.0	114.3
Inner Diameter ID	mm	46.1	60.3	77.8	101.6
Wall Thickness	mm	4.8	5.1	5.6	6.35
Thread Length	mm	55.6	55.6	55.6	63.5
Thread Pitch	mm	12.7	12.7	12.7	12.7
Available Length	mm	3000	3000	3000	3000
Weight	kg per rod	18	24	34.5	49.6
Tensile Strength	≥kN	330	430	560	650
Make-up Torque	N·m	420	720	1100	1200
Maximum Torque	N·m	1250	3600	4300	4900
Displacement Volume	L/m	1.7	2.9	4.8	8.1

Wireline Drill Rod - Thin Wall

Specifications	Unit	ATW	BTW	NTW	HTW
Outer Diameter OD	mm	44.5	57.0	73.2	91.0
Inner Diameter ID	mm	36.8	48.6	64.3	81.0
Wall Thickness	mm	3.85	4.2	4.45	5
Thread Length	mm	39.7	39.7	44.45	44.45
Thread Pitch	mm	5.5	5.5	6.35	8.47
Available Length	mm	1500	1500	1500	1500
Weight	kg per rod	5.8	8.2	11.4	16.0
Tensile Strength	≥kN	114	238	310	403
Make-up Torque	N·m	236	319	547	836
Maximum Torque	N·m	570	950	2736	3268
Displacement Volume	L/m	1.1	1.9	3.2	5.2

Geological Casing

Description	Length (mm)	Outer Diameter (mm)	Inner Diameter (mm)	Thread Length (mm)	Thread Pitch (mm)
BW	500	73.0	60.3	63.5	6.35
BW	1000	73.0	60.3	63.5	6.35
BW	1500	73.0	60.3	63.5	6.35
BW	3000	73.0	60.3	63.5	6.35
NW	500	89.0	76.3	69.3	6.35
NW	1000	89.0	76.3	69.3	6.35
NW	1500	89.0	76.3	69.3	6.35
NW	3000	89.0	76.3	69.3	6.35
HW	500	114.3	101.6	76.2	6.35
HW	1000	114.3	101.6	76.2	6.35
HW	1500	114.3	101.6	76.2	6.35
HW	3000	114.3	101.6	76.2	6.35
PW	500	139.7	127.0	82.6	8.47
PW	1000	139.7	127.0	82.6	8.47
PW	1500	139.7	127.0	82.6	8.47
PW	3000	139.7	127.0	82.6	8.47
NWT	1500	89.0	76.3	62.8	10.16
NWT	3000	89.0	76.3	62.8	10.16
HWT	1500	114.3	101.6	62.8	10.16
HWT	3000	114.3	101.6	62.8	10.16
PWT	1500	139.7	127.0	62.8	10.16
PWT	3000	139.7	127.0	62.8	10.16

Core Barrel & Overshot Assembly

- * Complete Core Barrel Assembly
- * Complete Overshot Assembly
- * Replacement Spare Parts



Wireline Core Barrel Assembly

Description	Core Diameter (mm)	Hole Diameter (mm)
B	36.3	59.9
N	47.6	75.7
H	63.5	96.1
P	85	122.6
B-2	40.7	59.9
N-2	50.8	75.7
H-2	66	96.1
N-3	45	75.7
H-3	61.1	96.1
P-3	83	122.6
B-U	36.3	59.9
N-U	47.6	75.7
H-U	63.5	96.1
P-U	85	122.6



Wireline Core Barrel Assembly



Head Assembly



Core Lifter Case
Core Lifter
Stop Ring



Landing Ring
Stabilizer



Ejection Adaptor,
Piston,
Piston Plug,
O Ring



Locking Coupling(c/w Tang)
Locking Coupling
Adaptor Coupling

Inner Tube



Outer Tube



Split Tube



General Configuration of Wireline Core Barrel Assembly -Double Tube

SN	Description	Remark
01	Head Assembly	
02	Inner Tube	Length (mm) : 1500 /3000
03	Stop Ring	
04	Core Lifter	
05	Core Case	
06	Locking Coupling	
07	Adaptor Coupling	
08	Landing Ring	
09	Outer Tube	Length (mm) : 1500 /3000
10	Stabilizer	

General Configuration of Wireline Core Barrel Assembly -Triple Tube

SN	Description	Remark
01	Head Assembly	
02	Inner Tube	Length (mm) : 1500 /3000
03	Stop Ring	
04	Core Lifter	
05	Core Case	
06	Locking Coupling	
07	Adaptor Coupling	
08	Landing Ring	
09	Outer Tube	Length (mm) : 1500 /3000
10	Stabilizer	
11	Split Tube	Length (mm) : 1500 /3000
12	O Ring	
13	Piston	
14	Piston Plug	
15	Ejection Adaptor	

Head Assembly

SN	Description	Remark
1	Spearhead Point	
1.1	Compression Spring	
1.2	Detent Plunger	
1.3	Spearhead Body	
1.4	Spring Pin	
1.5	Latch Retracting Case	
1.6	Spring Pin	
1.7	Bolt	
1.8	Washer	
1.9	Latch Compression Spring	
1.10	Upper Latch Body	
1.11	Link	
1.12	Latch	
1.13	Spring Pin	
1.14	Steel Ball	
1.15	Indicator Bushing	
1.16	Landing Shoulder	
1.17	Lower Latch Body	
1.18	Washer (Nord-Lock)	
1.19	Hex Nut	
1.20	Spindle	
1.21	Rubber Valve	
1.22	Valve Adjusting Washer	
1.23	Thrust Bearing	
1.24	Spindle Bushing	
1.25	Thrust Bearing	
1.26	Compression Spring	
1.27	Lock Nut	
1.28	Inner Tube Cap	
1.29	Hydraulic Grease Fitting	
1.30	Steel Ball	
1.31	Check Valve Body	

Overshot Assembly

N, H, P, Overshot Assembly

No.	Description	Remark
1	Eye Bolt	
2	Cable Swivel Collar	
3	Thrust Bearing	
4	Castle Hex Nut	
5	Cable Swivel Body	
6	Hydraulic Grease Fitting	
7	Jar Staff	
8	Jar Tube	
9	Locking Sleeve	
10	Castle Hex Nut	
11	Washer	
12	Cap	
13	Spring	
14	Sleeve	
15	Overshot Head	
16	Set Screw	
17	Lifting Dog (2 Pcs.)	
18	Compression Spring	
19	Steel Ball (2 Pcs.)	
20	Plain Pin	
21	Spring Pin	
22	Locking Pin	
23	Slotted Sleeve	

Coring Accessories

Rod Wrench, Outer Tube Wrench, Inner Tube Wrench, Water Swivel, Hoisting Plug, Loading Chamber, Rod Cutter, Casing Cutter, Adpator Subs, Fishing Tool & Tap



Coring Accessories

Wrenches



Description	Type
Rod Wrench	B, N, H, P
Outer Tube Wrench	B, N, H, P
Inner Tube Wrench	B, N, H, P



Water Swivel

Description	Type
Water Swivel	25K
Water Swivel	40K
Water Swivel	Underground

*Water Repair Kit

Hoisting Plug



Description	Type
Hoisting Plug	Light
Hoisting Plug	Heavy

Rod Cutter & Casing Cutter



Description	Type
Rod Cutter	B, N, H, P
Casing Cutter	B, N, H, P
* Cutter Spare Parts	

Adaptor Subs



Description	Type
Sub	Hoisting Plug to Drill Rod
Sub	Hoisting Plug to Casing Pipe
Sub	Drill Rod to Casing Pipe
Sub	Water Swivel to Drill Rod
Sub	Drill Rod to Drill Rod

Loading Chamber



Fishing Tool & Taps





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