



KIMDRILL

<http://www.kimdrill.com>

KIMDRILL has been dedicated to supplying high-quality drilling tools in deep foundation drilling industry over 10 years. Sticking to the belief "quality is the life of products" we always put the high quality on top priority. Not only the best raw material we use, but the technologies we adopt are in line with the international standards.

We have the team of experienced engineers to design and develop the drilling tools to meet clients' requirements in complex pile works. Our drilling tools have been applied to many domestic projects in China as well as the projects abroad like Singapore, Philippines, Australia, Canada, USA, Kenya, Uganda etc.

Kimdrill is committed to be a trustworthy partner to all the clients. We never stop offering better service to clients. We value every feedback or comments from clients and response to clients' requirements at the earliest time.



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& Auger**

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DRILLING BUCKET&AUGER

We produce full ranges of drilling auger and bucket for the rotary drilling rigs, which are widely used in deep foundation engineering.

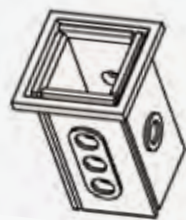
Models

Rock Drilling Auger	Clay Drilling Auger
Rock Drilling Bucket	Clay Drilling Bucket
Cleaning Drilling Bucket	Core Barrel with Bullet Bit
Core Barrel with Roller Bit	Two-Petal Drilling Bucket
Belling Bucket	Customized Bucket

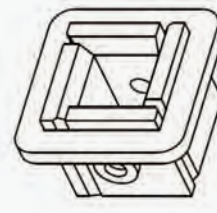
Kelly box type



Bauer type



General Type



Soilmec type

Kelly box type

200mm*200mm; 150mm*150mm; 130mm*130mm; 100mm*100mm; 75mm*75mm and more

* Compatible with all rotary drilling rigs

* Other specifications are available upon requests



Application

Drilling in medium to weak rock and in very dense sand and gravel

Kelly box

As per client's request.

Body

Cylindrical shape or conical shape

Spiral

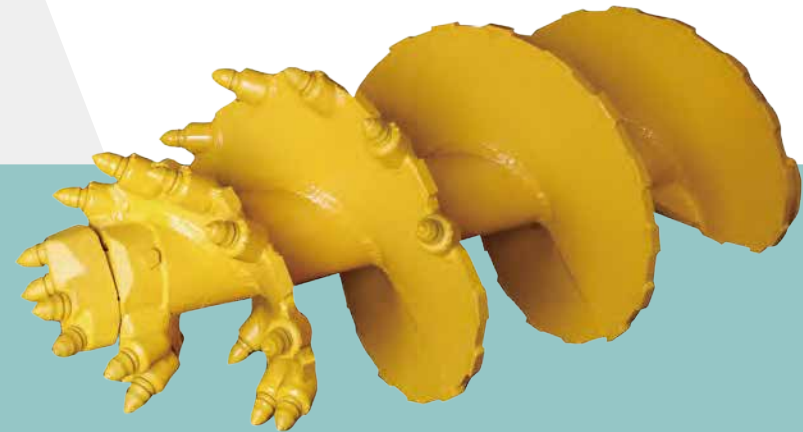
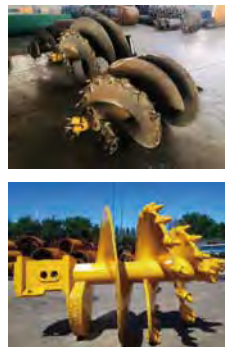
Single spiral or double spiral with wear lines

Cutter

Single cut or double cut

Wearing parts

Rock bit B47K17.5H/B47K19.5H/B47K22H/C31HD, rock pilot RP4 and holder



Drilling Dia. (mm)	Spiral Height (mm)	Pitch (mm)	Spiral THK T1 (mm)	Spiral THK T2 (mm)	Teeth No
600	1200	400	20	30	18
800	1200	400	20	30	22
1000	1200	500	20	30	24
1200	1200	500	20	30	26
1500	1200	500	30	40	31
1800	1200	600	30	40	49
2000	1200	600	30	40	57
2200	1200	600	30	40	63
2500	1200	600	30	40	69

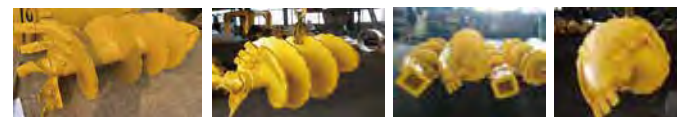
Remark: Other size can be manufactured as client's demand.

CLAY DRILLING AUGER

Drilling Dia. (mm)	Spiral Height (mm)	Pitch (mm)	Spiral THK T1 (mm)	Spiral THK T2 (mm)	Teeth No
600	1200	400	20	30	4
800	1200	400	20	30	6
1000	1200	500	20	30	8
1200	1200	500	20	30	10
1500	1200	500	30	40	14
1800	1200	600	30	40	16
2000	1200	600	30	40	18
2200	1200	600	30	40	20
2500	1200	600	30	40	24

Remark: Other size can be manufactured as client's demand.

Application Drilling in clay, silt and loose to medium dense sand and gravel	Spiral Single spiral or double spiral with wear lines
Kelly box As per client's request.	Cutter Single cut or double cut
Body Cylindrical shape or conical shape	Wearing parts Flat teeth V19/V20/18T/25T/BFZ72/BFZ80, fishtail pilot and holder



Application

Drilling in highly or medium weathered rock, very dense sand and gravel

Kelly box

As per client's request.

Body

Cylindrical barrel or conical barrel with wear strips



Bottom plate

Single bottom or double bottom

Cutter

Single cut or double cut

Wearing parts

Rock bit B47K17.5H/B47K19.5H/
B47K22H/C31HD, rock pilot RP4 and holder

Drilling Dia. (mm)	Shell Height (mm)	Shell THK (mm)	Fixed Bottom THK(mm)	Rotate Bottom THK(mm)	Teeth No
500	1200	16	40	40	6
600	1200	16	40	40	8
800	1200	16	40	50	10
1000	1200	20	40	50	14
1200	1200	20	40	50	16
1500	1200	20	40	50	20
1800	1000	20	50	50	24
2000	800	20	50	50	26
2500	800	25	50	50	32
2800	800	25	50	50	36
3000	800	25	50	50	40

Remark: Other size can be manufactured as client's demand.



 KIMDRILL
SOIL DRILLING BUCKET

Drilling Dia. (mm)	Shell Height (mm)	Shell THK (mm)	Fixed Bottom THK(mm)	Rotate Bottom THK(mm)	Teeth No
500	1200	16	40	40	4
600	1200	16	40	40	4
800	1200	16	40	50	4
1000	1200	20	40	50	5
1200	1200	20	40	50	7
1500	1200	20	40	50	9
1800	1000	20	50	50	12
2000	800	20	50	50	14
2500	800	25	50	50	19
2800	800	25	50	50	22
3000	800	25	50	50	24

Remark: Other size can be manufactured as client's demand.

Application Drilling in clay, silt and loose to medium dense sand and gravel	Bottom Plate Single bottom or double bottom
Kelly box As per client's request	Cutter Single cut or double cut
Body Cylindrical barrel or conical barrel with wear strips	Wearing parts Flat teeth V19/V20/18T/25T, fishtail pilot and holder



CLEANING DRILLING BUCKET



Drilling Dia. (mm)	Spiral Height (mm)	Shell THK (mm)	Fixed Bottom THK (mm)	Rotate Bottom THK (mm)
500	1200	16	40	40
600	1200	16	40	40
800	1200	16	40	40
1000	1200	16	40	50
1200	1200	16	40	50
1500	1200	16	40	50
1800	1000	20	50	50
2000	800	20	50	50
2500	800	20	50	50
2800	800	20	50	50
3000	800	20	50	50

Remark: Other size can be manufactured as client's demand.

Application
Used for cleaning the bottom
of borehole

Kelly box
As per client's request.

Body
Cylindrical barrel or conical
barrel with wear strips

Bottom Plate
Single bottom or double
bottom

Cutter
Single cut or double cut

CORE BARREL WITH BULLET BIT

Application

Drilling in medium weathered rock, gravel and boulder

Kelly box

As per client's request.



Barrel

Cylindrical barrel with cutting ring and wear plates

Wearing parts

Rock bit B47K17.5H/B47K19.5H/B47K22H/C31HD and holder



Drilling Dia. (mm)	Spiral Height (mm)	Shell THK (mm)	Cutting Ring THK (mm)	Cutting Ring HIT (mm)	Teeth No
500	1200	16	40	150	6
600	1200	16	40	150	6
800	1200	16	40	150	9
1000	1200	20	40	150/200	12
1200	1200	20	40	150/200	12
1500	1200	20	40	150/200	16
1800	1000	20	40	150/200	20
2000	800	20	40	200	24
2500	800	20	40	200	28
2800	800	20	40	200	30
3000	800	20	40	200	32

Remark: Other size can be manufactured as client's demand.

Drilling Dia. (mm)	Spiral Height (mm)	Shell THK (mm)	Cutting Ring THK (mm)	Cutting Ring HIT (mm)	Teeth No
500	1200	16	40	150	4
600	1200	16	40	150	4
800	1200	20	40	200	6
1000	1200	20	40	200	8
1200	1200	20	40	200	10
1500	1200	20	40	200	12
1800	1000	25	45	200	15
2000	800	25	45	200	16
2500	800	25	45	200	21
2800	800	25	45	200	24
3000	800	25	45	200	25

Remark: Other size can be manufactured as client's demand.



Application

Drilling in very strong rock formation with compressive strength more than 100Mpa

Kelly box

As per client's request.

Barrel

Cylindrical barrel with cutting ring and wear plates

Wearing parts

Roller bits

TWO-PETAL DRILLING BUCKET

Drilling Dia. (mm)	Spiral Height (mm)	Shell THK (mm)	Reinforced Ring THK (mm)	Bottom Plate THK (mm)	Teeth No
500	1200	30	40	50	7
600	1200	30	40	50	7
800	1200	30	40	50	9
900	1200	30	40	50	10
1000	1200	30	40	50	12
1200	1200	30	40	50	15
1500	1200	30	40	50	22



Application

Drilling in clay, silt and highly weathered rock

Kelly box

As per client's request.

Barrel

Open type barrel with wear strips

Wearing parts

Rock bit B47K17.5H/B47K19.5H/B47K22H/
or soil teeth V19/V20/18T/25T and holder



Dia. (mm)	Max Dia (mm)	Wings No.	Teeth No of two wings
600	1200	2/3/4	28
800	1600	2/3/4	28
900	1800	2/3/4	28
1000	2000	2/3/4	30
1200	2400	2/3/4	30
1500	3000	2/3/4	34
2000	4000	2/3/4	40

Application

Drilling in soil and medium weathered rock

Kelly box

As per client's request.

Wing

Two/Three/Four wings

Wearing parts

Rock bit B47K17.5H/B47K19.5H/B47K22H and holder



Bentonite Drilling Bucket

Application:
drilling in fluid

Diameter range:
600mm-2000mm



Ring Cutting Rock Drilling Bucket

Application:
Drilling in soil or medium weathered rock

Diameter range:
600mm-2000mm



Double-Shell Core Barrel

Application:
Drilling in medium weathered rock and gravel

Diameter range:
1000mm-2000mm



Crossing-cutter Rock Core Barrel

Application:
Drilling in highly or medium weathered rock

Diameter range:
600mm-2000mm



Grabbing style core barrel

Application:
Drilling in soil or medium weathered rock

Diameter range:
600mm-2000mm



Rock Bucket with cone bottom

Application:
Drilling in gravel, boulder and medium weathered rock

Diameter range:
600mm-2000mm

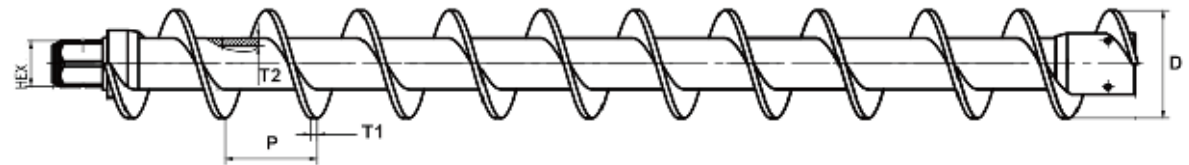
Continuous Flight Auger (CFA)

Joint

Hexagonal Joint or Flanged Joint

Wearing parts

Rock bit C31HD B47K17.5H/B47K19.5H/B47K22H/
or soil teeth V19/V20/18T/25T and holder



Drilling Dia. D (mm)	Joint Type (mm)	Pitch P(mm)	Spiral THK T1(mm)	Tube THK T2(mm)
300	Hex Joint	300	16	20
400	Hex Joint	350	16	20
600	Hex Joint	400	20	25
800	Hex Joint	500	20	30

Remark: Other size can be manufactured as client's demand.

Our factory manufactures various type of CFA drill rod and head matching with different drilling rigs, which can perform well in different soil conditions.

KIMDRILL **SOIL DISPLACEMENT AUGER**

Application

Drilling in loose and medium dense granular soils and soft cohesive strata

Joint

Hex joints or as per client's request.

Cutter

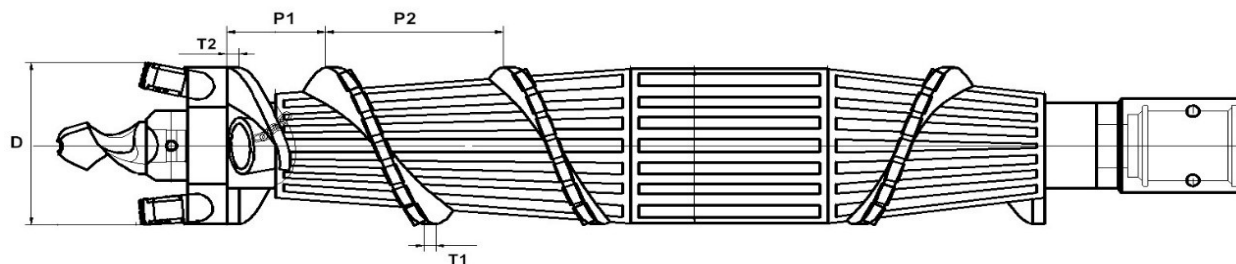
Double cut

Wearing parts

flat teeth V19/V20/18T/25T/BFZ72/BFZ80,
fish tail pilot and holder



Drilling Dia. D (mm)	Pitch P1(mm)	Pitch P2(mm)	Spiral THK T1(mm)	Spiral THK T2(mm)
300	250	350	20	30
400	250	400	30	30
500	250	450	30	30
600	300	500	30	40



Pilot and Holder



75mm Pilot



Rock Pilot



Holder



Fish Tail

Rock Teeth and Holder



B47K22H



C31HD



Holder B43H



Holder B85/2



Holder C30



Roller Bit

Soil Teeth and Holder



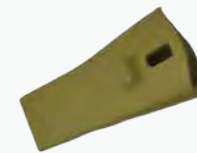
BFZ72 Teeth and Holder



BFZ80 Teeth, Holder and Pin



KD25T Holder



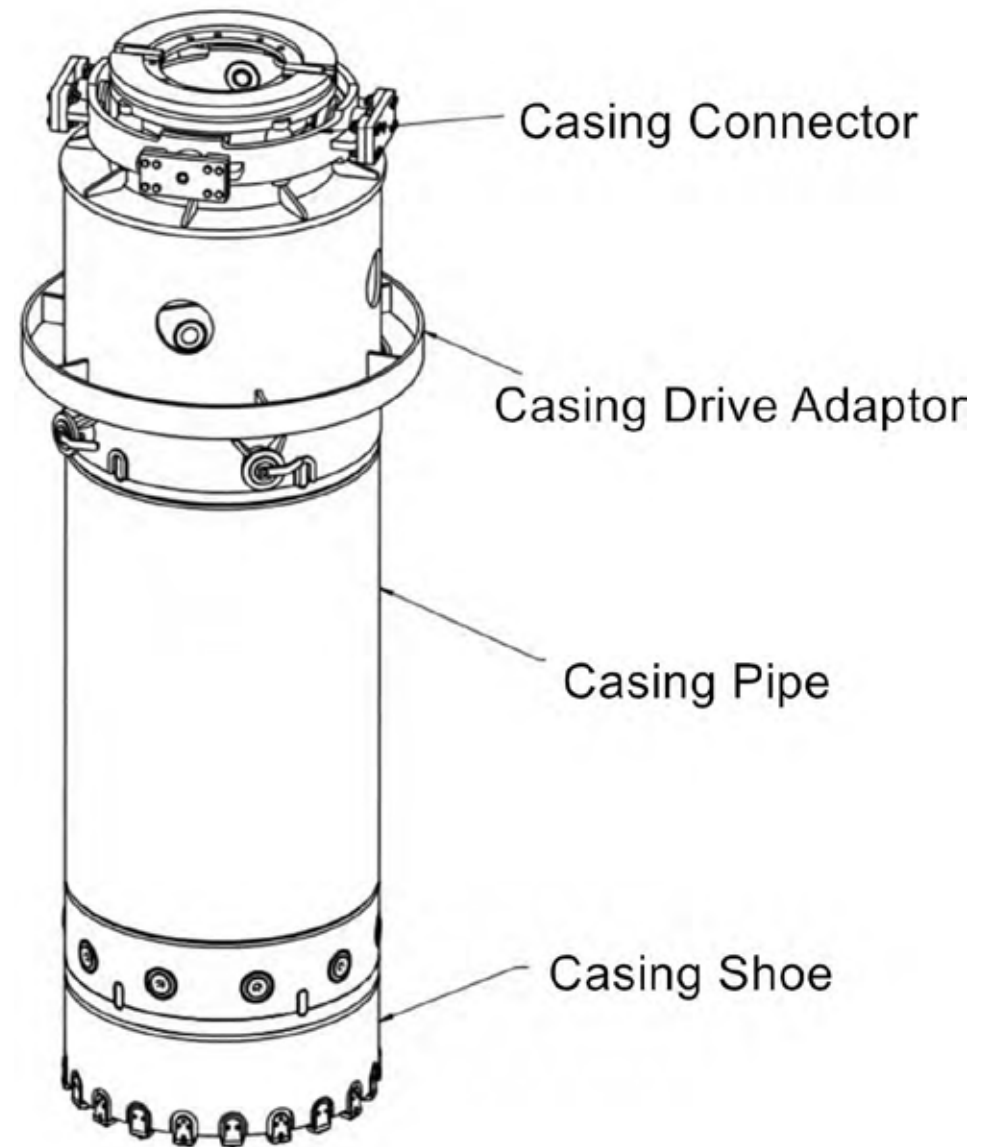
KD25T Teeth



Casings are used to stabilize boreholes in case of the collapse in deep foundation engineering.

We produce casing tube with double wall or single wall, casing joint, casing shoe, casing drive adaptor and other customized casing tools.

Our casing tools work well with rotary drilling rigs, casing oscillator and casing rotator.



Double wall casing tube, Single wall casing tube, and simplified casing tube are available on requests.

Double Wall Casing Tube

It's an idea choice in the cased bored piles, especially working in the complex soil conditions.



Casing joint

Casting ring of 25CrMo with heat treatment.

Wearing parts

Casing bolt, casing thread and casing nut

Matched with piling rigs

Bauer, Soilmec, Casagrande, IMT,MAIT,CMV,SANY, ZOOMLION

ID/OD (mm)	Outer Wall THK (mm)	Inner Wall THK(mm)	THK (mm)	Bolts No (mm)
540/620	12	8	40	8
600/680	12	8	40	8
800/880	12	8	40	10
920/1000	12	8	40	10
1000/1080	16	8	40	10
1200/1280	16	8	40	12
1500/1600	20	10	50	16
1700/1800	20	10	50	16
1880/2200	20	16	60	16
2060/2200	20	16	60	20
2380/2500	20	16	60	20

Remark: Other size can be manufactured as client's demand.



Casing Connector



Customized in accordance with client's rotary drill rigs.



Used for the connection of rotary head and casing drive adaptor.

Casing Drive Adaptor

We fabricate different types of casing drive adaptor to meet client's requirements.

A. Suitable for the double wall/single wall casing tube



B. Suitable for the simplified casing tube



Casing Shoe

Length

586mm; 1000mm; 2000mm; 3000mm;
4000mm; 5000mm or others on requests.



Wearing parts

Welding bar, WS39 and holder

Casing Joint

Material

Casted 25CrMo with heat treatment



Wearing parts

Casing bolt, casing thread and casing nut

Wearing parts



HYDRAULIC CASING OSCILLATOR

Kimdrill offers two types of Hydraulic Casing Oscillator. Our KCOR series is connected with the rotary drilling rig and the KCOC series is attached to the crawler crane.



Application

Bored concrete pile, Batter pile and special purpose of bore pile.

Secant pile wall of deep foundation, pile extracting and clearance of the scrap pile;



Model	KCOR1000	KCOR1300	KCOR1500	KCOR2000	KCOC1500	KCOC 2000	KCOC2500	KCOC 3000
Casing Diameter(mm)	500~1000	800~1300	800~1500	1200~2000	800~1500	1200~2000	1800~2500	2400~3000
Operating pressure	31.5Mpa	31.5Mpa	31.5Mpa	31.5Mpa	31.5Mpa	31.5Mpa	31.5Mpa	31.5Mpa
Torque	650KN.m	1750KN.m	2000KN.m	2520KN.m	3280KN.m	4070KN.m	7310KN.m	8610KN.m
Stroke	350mm	450mm	450mm	450mm	500mm	500mm	500mm	500mm
Lifting force	800KN	1800KN	1800KN	2000KN	2150KN	2800KN	5050KN	7420KN
Clamping force	530KN	1650KN	2100KN	2510KN	1750KN	2250KN	3710KN	4680KN
Rotation angle	22°	22°	22°	22°	25°	25°	25°	25°
Casing rotation	185mm	245mm	290mm	340mm	330mm	440mm	550mm	545mm
L* W* H(mm)	2700*1850*1250	3870*2250*1600	4070*2500*1600	4800*3200*1600	6500*2850*1850	7500*3200*1950	8800*4000*2580	9150*4500*2610
Weight (kgs)	7500	11200	15000	17600	16500	23500	37650	50000

Hammer Grab

Drilling Diameter

600mm-2500mm

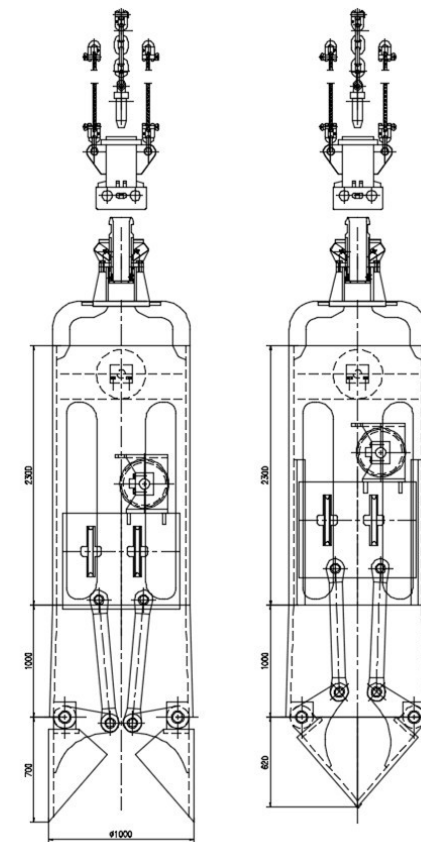
Features

Pulley system and double-rope/single-rope type are both available.



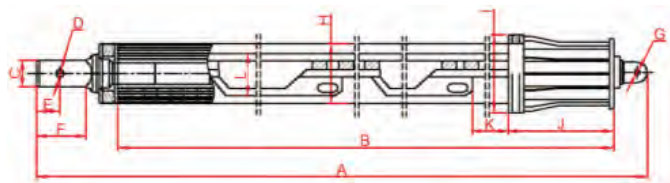
Hammer grab is a large bored pile equipment for the foundation construction. Its main function is to excavate bored piles of soil, gravel and soft rock layer.

Drawing of 1000mm hammer grab

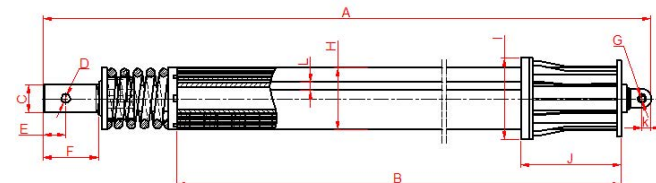


Kelly bar is a telescopic drilling rod to transfer the torque of rotary drive and crowd pressure of the crowd system to the drilling tool. Kimdrill can customize kelly bar on requested that can be applied to any type of piling rig available in market.

Interlocking Kelly bars are used with piling rigs for drilling in dense sand and gravel and weak to strong rock. To transfer the max torque to the drilling tools, the interlocking Kelly bar is equipped with drive ribs which are welded on the lock device on each section.



Friction Kelly bars are used with piling rigs for drilling in silt, clay and less dense sand and gravel. We adopt seamless alloy tube from famous steel enterprise and process the tube with special hot-treatment to enhance the material's strength more than 800Mpa.



Model	Outer Dia. (mm)	Section	Length of each ection (m)	Drilling Rigs Matched with
KD343/4/9-14	343	3,4,5	9-14	Bauer BG15
KD355/3/4/5/9-14	355	3,4,5	9-14	CMV TH14
KD368/4/9-14	368	3,4,5	9-14	Bauer BG20
KD377/3/4/5/9-14	377	3,4,5	9-14	MAIT HR160
KD394/3/4/5/9-15	394	3,4,5	9-15	Bauer BG22/BG25/BG36
KD406/3/4/5/9-15	406	3,4,5	9-15	Soilemc R518/R622/SR60/SR80C IMT AF180/IMT AF220/CMV TH18/CMV TH22
KD419/3/4/5/9-15	419	3,4,5	9-15	Casagrande B200XP
KD440/3/4/5/6/9-15	440	3,4,5,6	9-15	MAIT HR180
KD470/3/4/5/6/9-16.5	470	3,4,5,6	9-16.5	Bauer BG40
KD508/3/4/5/6/9-18	508	3,4,5,6	9-18	Casagrande B300XP/C800H40
KD558/3/4/5/6/9-24	558	3,4,5,6	9-24	Soilmec SR100
KD559/3/4/5/6/9-24	559	3,4,5,6	9-24	Bauer BG48

Interlocking Kelly Bar



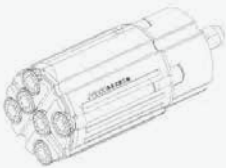
Friction Kelly Bar

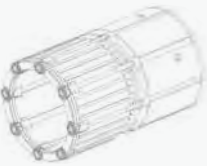


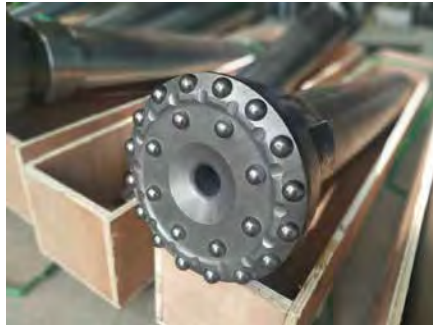
Spare Parts of Kelly Bar



Kimdrill cluster drills is capable of drilling the large diameter hole from 600mm to 3000mm (23" to 118") in extremely hard rock formations. It consists of multiple DTH hammers and bits in one assembly. The RCD (reverse circulation drilling) is also available.

Application Bridge piers, secant wall drilling, ventilation drill, caissons & other oundation engineering.				Joint type flanged joint, hex joint or kelly box.			Wearing parts Sub DTH hammer, Quick change bit, Slag storage tank (optional)			
Cluster Drills	Model	Diameter (mm)	No. of Sub-hammers	Weight of hammers (Kg)	Air consumption		Application			
					Air pressure 1.0Mpa (m³)	Air pressure 2.4Mpa (m³)	Rotary drilling rig	CFA rig	Reverse circulation drilling rig	Rotating pile frame
	KCD600	600	4	1500	36	104		√	√	√
	KCD800	800	4	2500	48	112	√	√	√	√
	KCD1000	1000	6	3300	72	168	√	√	√	√
	KCD1200	1200	7	4000	84	196	√	√	√	√
	KCD1500	1500	10	5000	120	260	√		√	√
Cluster Reamer	Model	Diameter Range (mm)	No. of Sub-hammers	Weight of hammers (Kg)	Air consumption		Application			
					Air pressure 1.0Mpa (m³)	Air pressure 2.4Mpa (m³)	Rotary drilling rig	Reverse circulation drilling rig	Rotating pile frame	
	KCR1000-1500	1000-1500	6	4500	72	168	√	√	√	
	KCR1200-1800	1200-1800	9	5800	108	252	√	√	√	
	KCR1200-2000	1200-2000	12	6500	144	336	√	√	√	
	KCR1200-2200	1200-2200	12	7000	144	336	√	√	√	

Cluster Reamer	Model	Diameter (mm)	No. of Sub-hammers	Weight of hammers (Kg)	Air consumption		Application		
					Air pressure 1.0Mpa (m³)	Air pressure 2.4Mpa (m³)	Rotary drilling rig	Reverse circulation drilling rig	Rotating pile frame
	KCB1200	1200	4	5000	48	112	√	√	√
	KCB1500	1500	6	7000	72	168	√	√	√
	KCB1800	1800	8	9000	96	224	√	√	√
	KCB2000	2000	8	11000	96	224	√	√	√
	KCB2200	2200	8	13000	96	224	√	√	√



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