



BORSURE

KELLY DRILLING TOOLS



■ Company Profile

Founded in 2009, **Borsure** is a professional manufacturer of rotary drilling tools for foundation piling projects.

Our product range includes **rock augers, core barrels, drilling buckets, and segmental casing systems**, widely used in large-diameter bored piles, infrastructure foundations, and rotary drilling applications. Each tool is designed to ensure efficient penetration, stable drilling performance, and precise coring across different soil and rock formations.

Borsure operates modern manufacturing facilities equipped with advanced welding, machining, and inspection systems. With an ISO 9001-certified quality management system, we maintain strict control over materials, tolerances, and performance to guarantee consistent product reliability.

Our mission is to become a trusted global supplier of high-quality rotary drilling tools, delivering durable products and dependable support for the international foundation construction market.



Factory Overview

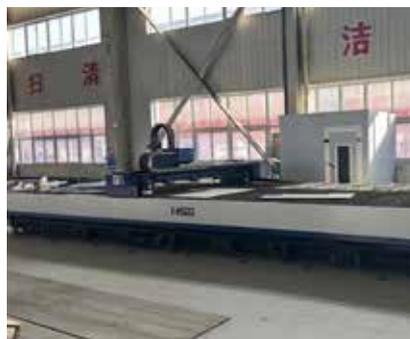
■ No. 3 & 6 Drilling Equipment Factory

Facilities

- Automated welding & machining
- Full in-house fabrication
- Annual output: 5,000+ tons
- Dedicated workshops for casing joints and drilling tools

Quality System

- ISO 9001 / 14001 / 45001
- Incoming steel inspection
- Hardness & wear testing
- Dimensional control
- Assembly torque verification



DOUBLE WALL SEGMENTAL CASING

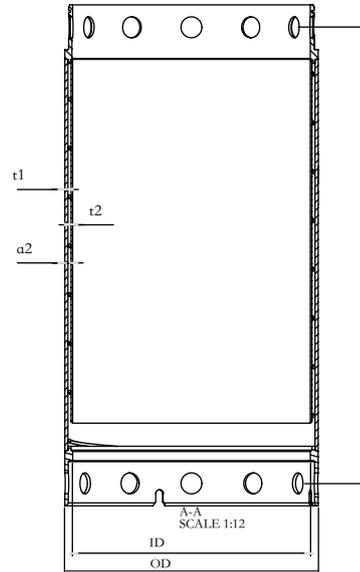
Double-wall casings consist of two layers of steel, with a gap & filler material between them, providing higher strength and torsion resistance.

Application:

Designed for hard rock, dense gravel, and deep drilling requiring high torque and structural rigidity.

Key Features

- Exceptional torsional resistance
- High strength under heavy drilling loads
- Long service life
- Precision casing joint fit



DIAMETER	LENGTH L (WEIGHT)						CASING WALL THICKNESS			BOLTS
	1m (kg)	2m (kg)	3m (kg)	4m (kg)	5m (kg)	6m (kg)	t1 (mm)	t2 (mm)	Total Thickness a2 (mm)	
D1/D2 (mm)										
620/540	403	739	1074	1411	1747	2081	12	8	40	8
750/670	492	902	1311	1722	2131	2540	12	8	40	10
880/800	585	1069	1552	2036	2520	3005	12	8	40	10
1000/920	669	1221	1773	2328	2877	3429	12	8	40	10
1180/1100	844	1580	2316	3052	3787	4522	16	8	40	12
1200/1120	872	1620	2370	3120	3870	4620	16	8	40	12
1300/1220	933	1246	2558	3372	4184	4996	16	8	40	12
1500/1400	1433	2628	3817	5009	6210	7393	20	10	50	12
1800/1700	1730	3166	4602	6038	7474	8910	20	10	50	12
2000/1880	2450	4280	6110	7940	9770	11600	20	10	50	12
2200/2080	2700	4720	6740	8760	10780	12800	20	15	60	12
2500/2380	2960	5240	7520	9800	12080	14360	20	15	60	16

SINGLE WALL SEGMENTAL CASING

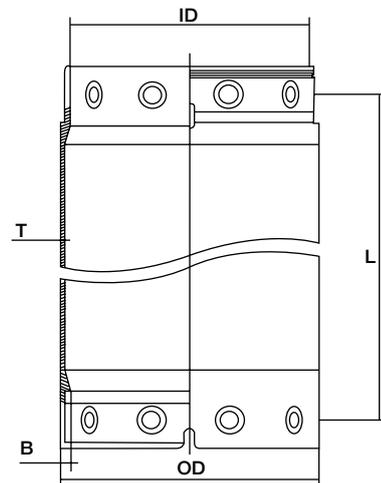
Single-wall casings are made from a single layer of steel and are typically used in simpler geological conditions.

Applications:

Suitable for soft to medium-density soils.

Key Features

- Lightweight design
- Cost-effective solution
- Optional cutting ring
- Compatible with Kelly box 200 / 250 mm



DIAMETER	LENGTH L (WEIGHT)						CASING WALL THICKNESS		BOLTS
	1m (kg)	2m (kg)	3m (kg)	4m (kg)	5m (kg)	6m (kg)	T (mm)	B (mm)	Bolt qty (nos)
D1/D2 (mm)									
1300/1220	845	1475	2105	2735	3365	3995	20	40	12
1500/1400	1310	2220	3130	4040	4950	5860	25	50	12
1800/1700	1580	2675	3770	4865	5960	7055	25	50	12
2000/1880	2140	3355	4570	5785	7000	8215	25	60	12
2200/2080	2350	3690	5030	6370	7710	9050	25	60	12
2500/2380	2575	4100	5625	7150	8675	10200	25	60	16



ROCK BUCKET

Application

Dense sand, gravel, and weak to moderately strong rock formations.

Features

- Kellybox 200 mm / 250mm.
- Round shank chisel pilot bit RP4 available.
- Soil Bucket available equipped with flat teeth.
- Double opening optional
- Cleaning bucket optional

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Double Opening



Tool diameter D (mm)	Weight (kg)
600	760
700	880
800	1040
900	1150
1000	1280
1100	1430
1200	1580
1300	1740
1400	1990
1500	2150
1600	2275
1700	2575
1800	2750
1900	3050
2000	3150
2100	3375
2200	3600
2300	3950
2400	4150
2500	4350

Sand & Gravel Bucket

Application

Suitable for soft to mixed ground: silty clay, dense clay, gravel, pebbles, shells, iron-bearing sand, frozen soil, and moderately weathered rock.

Features

- Heavy-duty cutting ring
- Bullet or flat teeth options
- Optimized spoil removal
- Suitable for high-water-content layers



RBCB Spec.

Model and specifications	Tube height (mm)	Cylinder outer diameter (mm)	Mandrel size (mm)	upper wall thickness (mm)	Lower wall thickness (mm)	Material	Tooth plate angle	Tooth shape	Number of teeth	Tooth spacing (mm)
DCSD-600	1200	540/540	—	16	—	Q355B	48 °	bucket	6	570
DCSD-700	1200	640/640	—	16	—	Q355B	48 °	bucket	6	670
DCSD-800	1200	700/740	—	16	—	Q355B	48 °	bucket	8	770
DCSD-900	1200	750/800	—	16	—	Q355B	48 °	bucket	8	870
DCSD-1000	1200	800/900	—	16	—	Q355B	48 °	bucket	10	970
DCSD-1100	1200	900/1000	—	16	—	Q355B	48 °	bucket	10	1070
DCSD-1200	1200	1000/1100	—	16	—	Q355B	48 °	bucket	12	1170
DCSD-1250	1200	1050/1150	—	16	—	Q355B	48 °	bucket	12	1220
DCSD-1300	1200	1200/1200	—	16	—	Q355B	48 °	bucket	14	1270
DCSD-1400	1200	1300/1300	—	16	—	Q355B	48 °	bucket	14	1370
DCSD-1500	1200	1400/1400	—	20	—	Q355B	48 °	bucket	17	1470
DCSD-1600	1200	1500/1500	—	20	—	Q355B	48 °	bucket	18	1570
DCSD-1700	1000	1600/1600	—	20	—	Q355B	48 °	bucket	18	1670
DCSD-1800	1000	1600/1600	—	20	—	Q355B	48 °	bucket	20	1770
DCSD-2000	800	1900/1900	—	20	—	Q355B	48 °	bucket	22	1970
DCSD-2200	800	2100/2100	—	25	—	Q355B	48 °	bucket	24	2170
DCSD-2300	800	2200/2200	—	25	—	Q355B	48 °	bucket	24	2270
DCSD-2400	800	2300/2300	—	25	—	Q355B	48 °	bucket	26	2370
DCSD-2500	800	2400/2400	—	25	—	Q355B	48 °	bucket	26	2470

CORE BARREL

Application

For backfill layers, mixed formations, and moderately weathered rock.

Features

- Spiral cleaning strip
- Heavy-duty barrel construction
- Optional bullet teeth or roller cutters



BTGB Spec.

Tool diameter D (mm)	Weight (kg)
600	640
700	770
800	850
900	950
1000	1120
1100	1220
1200	1320
1300	1500
1400	1750
1500	1900
1600	2040
1700	2280
1800	2380
1900	2700
2000	2850
2100	2925
2200	3100
2300	3300
2400	3475
2500	3650

ROLLER BIT CORE BARREL

Application

For hard rock, boulders, and mixed ground where conventional buckets or augers are insufficient.

Features

- Precision cutting layout
- High wear resistance
- Reinforced barrel for extreme load



Tool diameter D (mm)	Weight (kg)
600	690
700	840
800	980
900	1150
1000	1290
1100	1390
1200	1590
1300	1750
1400	1950
1500	2090
1600	2170

Pile Dia. (mm)	Maxi. Cutting Dia. (mm)	Roller Bit Qty (Piece)	Barrel Length (mm)
800	780	6	1400
1000	980	8	1800
1200	1180	10	2000
1400	1380	12	2200
1500	1480	12	2200
1600	1580	14	2500
1800	1780	16	2500

ROCK AUGER

Application

Very dense sand and gravel, moderately weak to moderately strong rock (up to 25 Mpa)
Double Flight is recommended in uncased bores or for bigger diameters and secant pile walls.

Features

- Kellybox 200 mm / 250mm
- Round shank chisel pilot bit RP4 available
- Auger flight thickness of 25/30 mm
- Flat teeth available for soft soil
- Single / Double cut

Single Cut



Double Cut



Tool diameter D (mm)	Weight (kg)
600	590
700	710
800	810
900	970
1000	1100
1100	1150
1200	1210
1300	1395
1400	1685
1500	1820

*Other lengths and diameters on request. All weights are approximate values.

CONICAL ROCK AUGER

Application

Medium to strong rock formations (20–60 MPa).

Features

- Kellybox 200 mm / 250mm
- Round shank chisel pilot bit RP4 available
- Auger flight thickness of 25/30 mm
- Fitted with common chisels and interchangeable bit
- Double cut recommended for large diameters

Single Cut



Double Cut



Tool diameter D (mm)	Weight (kg)
600	530
700	580
800	670
900	750
1000	960
1100	1050
1200	1100
1300	1260
1400	1530
1500	1700

Service Philosophy

We engineer every tool for reliability, durability, and performance under real job-site conditions.



Design

Our tools are engineered using high-strength steels, optimized tooth geometry, and reinforced structural components.

Every detail—from flight thickness to cutting layout—is designed to improve drilling efficiency and maintain stability under high torque.



Experience

Decades of field experience allow us to tailor tools for different formations, including sand, gravel, clay, weathered rock, and hard rock.

We continuously refine tooth angles, wear-protection systems, and cleaning structures based on job-site feedback from global contractors.



Our Commitment

We deliver consistent build quality, fast support, and engineering assistance to help contractors drill faster, safer, and more efficiently.

Our mission is to build long-term partnerships through reliable tools and practical solutions.



BORSURE

■ Qualification Certificate

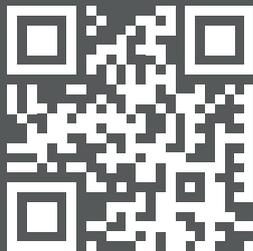


Power That Breaks Ground
Drill Faster. Drill Stronger.

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CHINA 2024

Qinhuangdao Borsure Drilling Equipment Co., Ltd.

Shunzhida Auto Industrial Park, Funing,
Qinhuangdao, Hebei, China



**Scan the QR code
for custom requests
or further technical
data**

www.borsure.com

T: +86 317 2020557

M: +86 19833109840 (WhatsApp)

E: Info@borsure.com