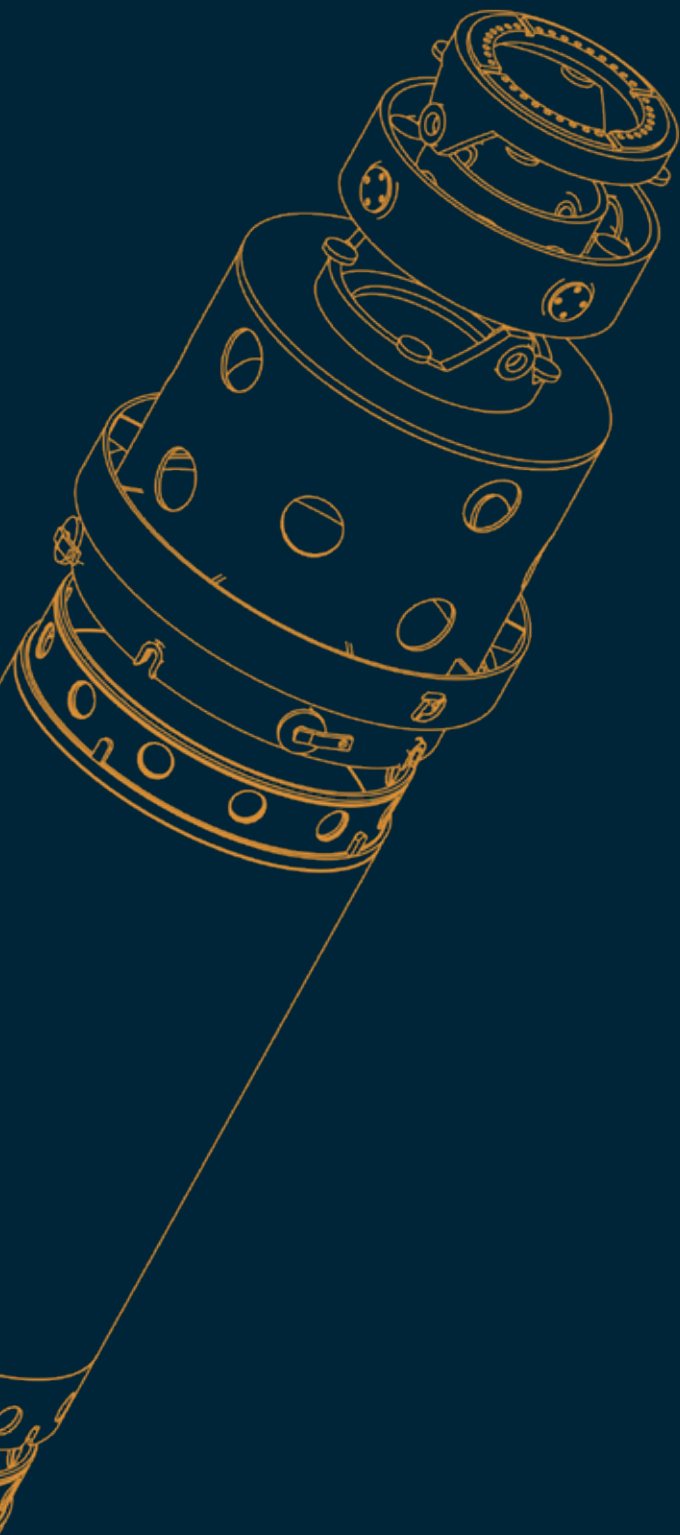




KELLY DRILLING TOOLS

ROCK AUGER

Application

Very dense sand and gravel, moderately weak to moderately strong rock (upto 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 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

Moderately strong to strong rock (12.5 – 50 MPa).
Double cut is recommended in uncased bores or for bigger diameters.

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



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

ROCK BUCKET

Application

Very dense sand and gravel, weak rock (12.5 – 50 Ma).

Single cut up to coarse gravel.

Double cut is recommended in uncased bores or for bigger diameters and for secant pile walls.

Features

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

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

CORE BARREL

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

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



Features

- Kellybox 200 mm / 250mm
- Full Helix
- Chisel holders are welded to the base body

Application

Up to strong rock (50 - 100 MPa) suitable for cutting through fissured rock.

ROLLER BIT CORE BARREL

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
1700	2450
1800	2580
1900	2800
2000	3000
2100	3200
2200	3350
2300	3450
2400	3600
2500	3800



MH-3



MH-3C



MH-3B

** How to select roller bit - www.drillnova.com*

Application

Roller bit core barrel is used in very strong rock formations (compressive strength > 100 MPa).

It uses rock roller bits for cutting the annular groove with a width of 120 mm.

The core barrel is extracted from the bore after coring a length of about 1 -2.5 m.

Features

- Kellybox 200 mm / 250mm
- Outside helix and flat teeth to optimize drilling performance
- Replaceable type available

70mm Helix Design

Specially engineered tall spiral for optimal bottom cuttings removal, boosting penetration rate.

Precision Tolerance Control

Built with 3mm roundness tolerance, ensuring high concentricity and stability.

Laser-Cut Reference Line

Maintains uniform roller bit height, streamlining welding and improving precision.

MH-3 Roller Bit

Our best-selling, patented preloaded angle design for effortless positioning in tough rock.



Kelly Box Reinforce

Four extra bars around the box, significantly reducing crack risk and extending tool life.

Wide Helix Design

Laser-Cut Reference Line

Flat Teeth

Ensures cleaner cuts, reducing rock breakage and prolonging bit life.



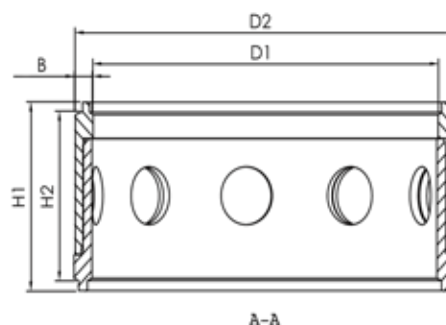
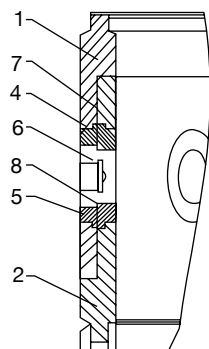
RBCB Spec.

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

* For other diameter requirements or custom designs, please contact our technical team

CASING JOINT

The casing joints are precision-machined to ensure fast, efficient replacement and secure bolting, providing the highest level of force transmission.



DIMENSION					BOLTS & INSERTS				KEY	O-RING
D1/D2 (mm)	H1 (mm)	H2 (mm)	B (mm)	Weight (kg)	Bolt Type	Bolt qty	Thread Ring qty	Conical Ring qty	Locating Key qty	O-Ring (mm)
620/540	338	378	40	179	I	8	8	8	4	10x535
750/670	338	378	40	218	I	10	10	10	4	10x665
880/800	338	378	40	261	I	10	10	10	4	10x790
1000/920	338	378	40	300	I	10	10	10	4	10x910
1180/1100	338	378	40	355	I	12	12	12	4	10x1090
1200/1120	338	378	40	375	I	12	12	12	4	10x1110
1300/1220	338	378	40	393	I	12	12	12	4	10x1210
1500/1400	490	530	50	827	II	12	12	12	4	10x1400
1800/1700	490	530	50	998	II	12	12	12	4	10x1695
2000/1880	561	601	60	1520	II	12	12	12	8	10x1870
2200/2080	561	601	60	1670	II	12	12	12	8	10x2070
2500/2380	561	601	60	1800	III	16	16	16	8	10x2360

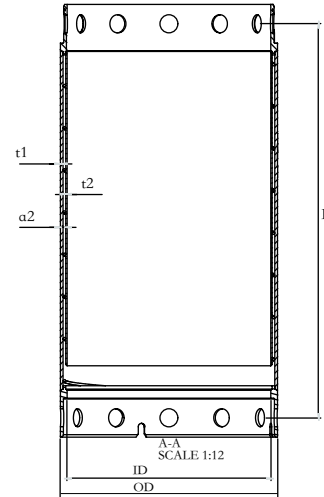
1	Female Part	5	Threaded Ring
2	Male Part	6	Bolt
3	Locating Key	7	Sealing
4	Conical Ring	8	O-Ring

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.

Advantages:

- High Strength:** The double-wall structure makes these casings more durable, allowing them to perform well under high torque and in difficult geological conditions.
- Durability:** Double-wall casings are less prone to deformation or damage in hard rock formations or gravel layers, offering longer service life.
- Better Torsion Resistance:** They can transmit the rotary torque more effectively, ensuring stable performance during drilling.



Application:

Ideal for complex geological conditions, such as hard rock formations or gravel layers, and deep drilling operations that require high strength and durability.

DIAMETER	LENGTH L (WEIGHT)						CASING WALL THICKNESS			BOLTS
D1/D2 (mm)	1m (kg)	2m (kg)	3m (kg)	4m (kg)	5m (kg)	6m (kg)	t1 (mm)	t2 (mm)	Total Thickness a2 (mm)	Bolt qty (nos)
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

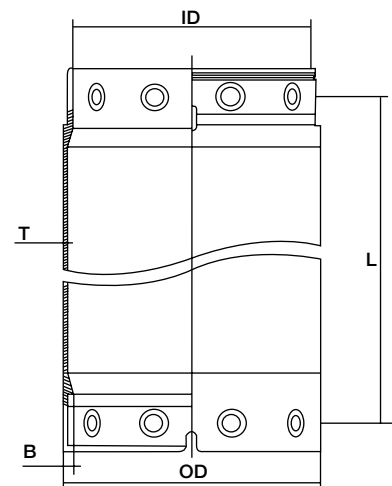
Single-wall casings are made from a single layer of steel and are typically used in simpler geological conditions.

Advantages:

- Lightweight:** Due to their single-layer structure, single-wall casings are lighter and suitable for shallow or soft soil drilling operations.
- Lower Cost:** They are less expensive to produce and use less material, making them a budget-friendly option for certain projects.

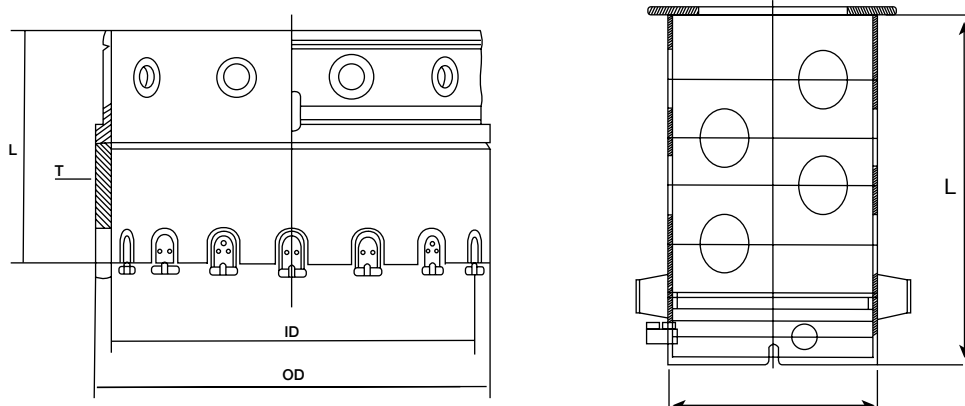
Applications:

- Suitable for projects in soft soil or shallow drilling, such as sandy or clay soils, where the geological conditions are relatively straightforward.



DIAMETER	LENGTH L (WEIGHT)						CASING WALL THICKNESS		BOLTS
D1/D2 (mm)	1m (kg)	2m (kg)	3m (kg)	4m (kg)	5m (kg)	6m (kg)	T (mm)	B (mm)	Bolt qty (nos)
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

CASING SHOE



Diameter	620 (mm)	750 (mm)	880 (mm)	1000 (mm)	1180 (mm)	1300 (mm)	1500 (mm)
Tooth Quantity	14	16	18	18	20	24	30
Weight (kg)	309	374	439	500	589	653	955

The casing drive adapter is a crucial component designed to transfer torque from the rotary drive to the top of the casing string. Its upper connection is fully customizable to match the specific size and model requirements as specified by the customer.

CASING ACCESSORIES



Model	Application
WS39	It is a Bauer standard changeable teeth, which can save replacement time. It has a wide range of applications, and suitable for soft to medium hardness casing construction.

Model	Application
WS46	It is a Bauer standard changeable teeth, which can save replacement time. It has a wide range of applications, and suitable for soft to medium hardness casing construction.

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