



FOUNDATION DRILLING TOOLS

2 0 2 2 V E R S I O N







COMPANY TIMELINE

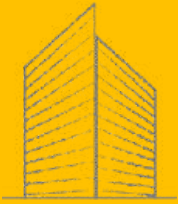


1990S

Beg anbusine ss int hepili ng
industry.



2005



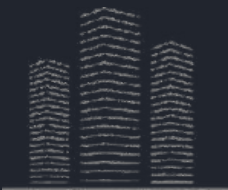
2008-2013

Expanded into Australia, New Zealand, Germany and other Asian Pacific countries and built cooperation with local leading suppliers.



2020

Began engineering of the world's first hydraulic DTH rotary hammer, and the prototype was delivered in 2021.



2016

Started strategic partnership with XCMG, the world's largest manufacturer of rotary drill rigs.



2021-now



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ADVANTAGES OF FES DRILLING TOOLS

01

TOP QUALITY MATERIAL

are handled by our experienced engineers with precision and care

02

HIGH QUALITY WELDING

throughout the production ensures higher strength and better durability

03

STRICT QUALITY CONTROL

and inspection are carried out to ensure production of safe and high quality products

04

WEAR PROTECTION

on drilling tools ensures a longer service span



[MORE DETAILS](#)

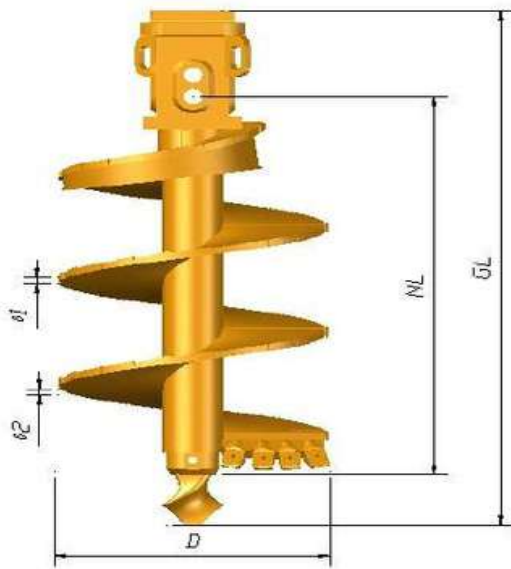




- High-strength steels with selection
- Optional heat treatment of complete augers to reach a higher grade level
- Wear protection and heavy-duty holders for longer service life
- Test report of hardness upto 47-55HRC
- Higher drilling efficiency with the right angle of attack of drilling teeth



SINGLE-CUT SINGLE-FLIGHT STRAIGHT SOIL AUGER



Features

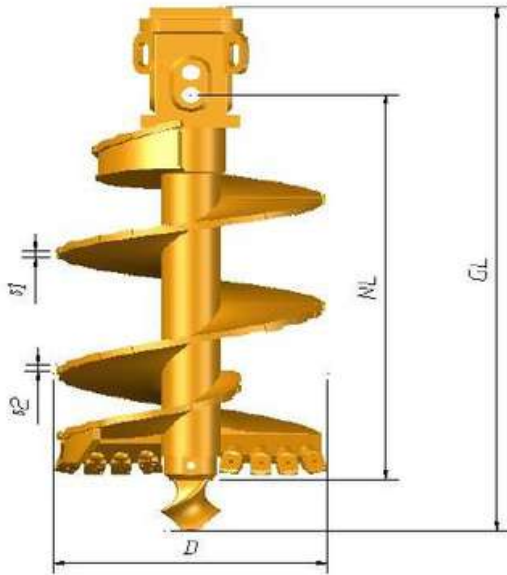
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Fishtail pilot and flat teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
500	1700	2240	30/30	673
600	1700	2240	30/30	717
700	1700	2240	30/30	793
800	1700	2240	30/30	878
900	1700	2240	30/30	954
1000	1700	2240	30/30	1083
1100	1700	2240	30/30	1147
1200	1700	2240	30/30	1249
1300	1700	2240	30/30	1372
1500	1700	22 40	30/30	1572
1800	1700	2240	30/30	1825
2000	1700	2240	30/40	2200

For any smaller or larger OD as per request.

DOUBLE-CUT SINGLE-FLIGHT STRAIGHT SOIL AUGER



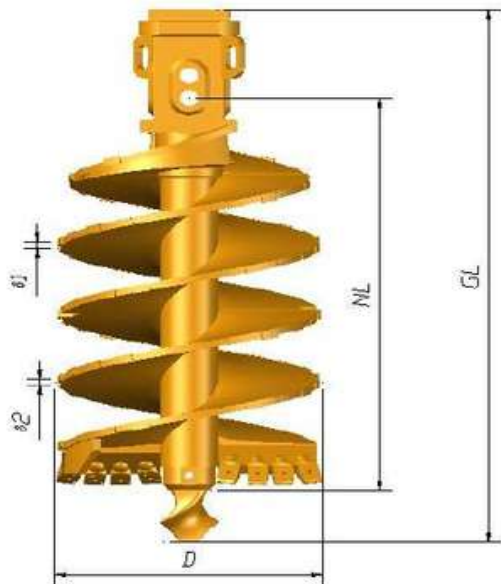
Features

- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Fishtail pilot and flat teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
500	1700 17	2240	30/30	666
600	1700	2240	30/30	710
700	1700	2240	30/30	835
800	1700	2240	30/30	983
900	1700	2240	30/30	1035
1000	1700	2240	30/30	1127
1100	1700	2240	30/30	1188
1200	1700	2240	30/30	1250
1300	1700	2240	30/30	1410
1500	1700	2240	30/30	1580
1800	1700	2240	30/30	1950
2000	1700	2240	30/30	2310
For any smaller or larger OD as per request.				0
				30/30

DOUBLE-CUTDOUBLE-FLIGHT STRAIGHTSOILAUGER



Features

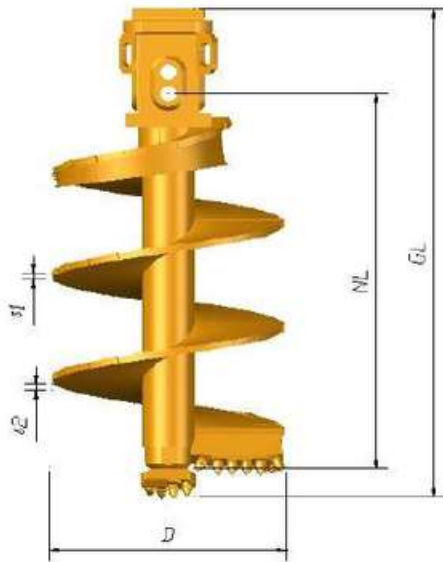
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Fishtail pilot and flat teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
500	1700	2240	30/30	703 817
600	1700	2240	30/30	958
700	1700	2240	30/30	1132
800	1700	2240	30/30	1290
900	1700	2240	30/30	1450
1000	1700	2240	30/30	1540
1100	1700	2240	30/30	1620
1200	1700	2240	30/30	1780
1300	1700	2240	30/30	2040
1500	1700	22 40	30/30	2670
1800	1700	2240	30/30	3520
2000	1700	2240	30/30	

For any smaller or larger OD as per request.

SINGLE-CUT SINGLE-FLIGHT STRAIGHT ROCK AUGER



Features

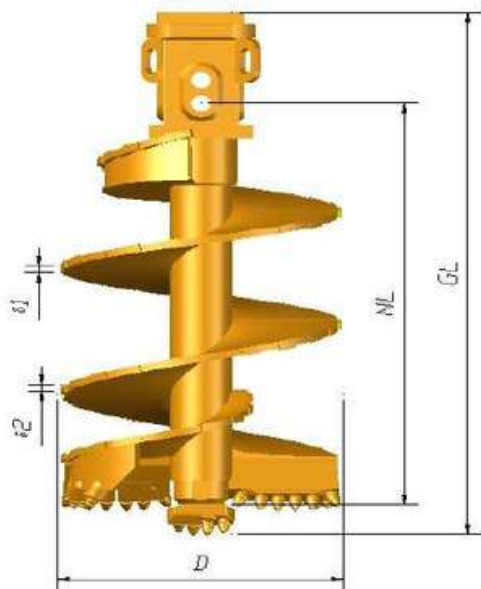
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Standard RP-4 pilot and bullet teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
500	1700	2240	30/30	677 716
600	1700	2240	30/30	798
700	1700	2240	30/30	890
800	1700	2240	30/30	950 1095
900	1700	2240	30/30	1144
1000	1700	2240	30/30	1263 1350
1100	1700	2240	30/30	1587
1200	1700	2240	30/30	1849
1300	1700	2240	30/30	2232
1500	1700	2240	30/30	
1800	1700	2240	30/30	
2000	1700	2240	30/40	

For any smaller or larger OD as per request.

DOUBLE-CUT SINGLE-FLIGHT STRAIGHT ROCK AUGER



Features

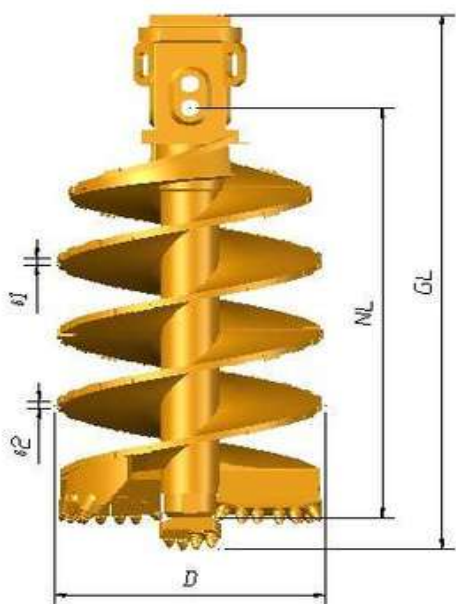
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Standard RP-4 pilot and bullet teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
500	1700	2240	30/30	662 705
600	1700	2240	30/30	780
700	1700	2240	30/30	973
800	1700	2240	30/30	1058 1147
900	1700	2240	30/30	1207
1000	1700	2240	30/30	1290 1346
1100	1700	2240	30/30	1623
1200	1700	2240	30/30	2013
1300	1700	2240	30/30	2360
1500	1700	22 40	30/30	
1800	1700	2240	30/30	
2000	1700	2240	30/30	

For any smaller or larger OD as per request.

DOUBLE-CUT DOUBLE-FLIGHT STRAIGHT ROCK AUGER



Features

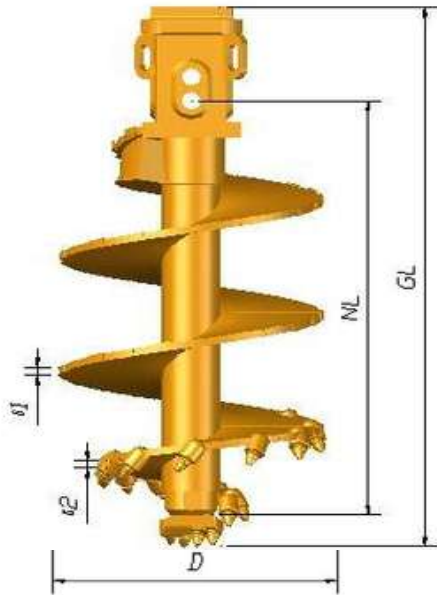
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Standard RP-4 pilot and bullet teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	$\delta 1/\delta 2$ (mm)	Weight(kg)
500	1700	2240	30/30	703 817
600	17 00	2240	30/30	950
700	1700	2240	30/30	1132
800	1700	2240	30/30	1270 1470
900	1700	2240	30/30	1530
1000	1700	2240	30/30	1640
1100	1700		30/30	1770
1200	1700			
1300	1700	2240	30/3 0	2080
1500	1700	2240	30/3 0	2728
1800	1700	2 240	3 0/30	3574
2000		2240	30/3 0	
		2240	30/40	

For any smaller or larger OD as per request.

SINGLE-CUT SINGLE-FLIGHT PROGRESSIVE ROCK AUGER



Features

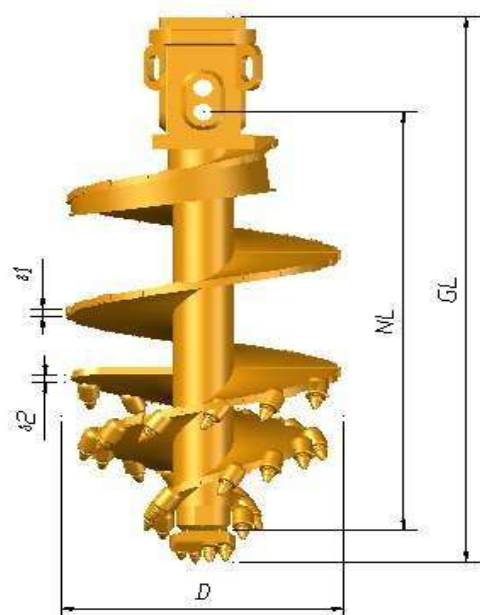
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Standard RP-4 pilot and bullet teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
500	1700	2240	30/30	668
600	1700	2240	30/30	698
700	1700	2240	30/30	730
800	1700	2240	30/30	882
900	1700	2240	30/30	943
1000	1700	2240	30/30	1090
1100	1700	2240	30/30	1160
1200	1700	2240	30/30	1278
1300	1700	2240	30/30	1380
1500	1700	2240	30/30	1611
1800	1700	2240	30/30	1857
2000			30/40	1876

For any smaller or larger OD as per request.

DOUBLE-CUT SINGLE-FLIGHT PROGRESSIVE ROCK AUGER



Features

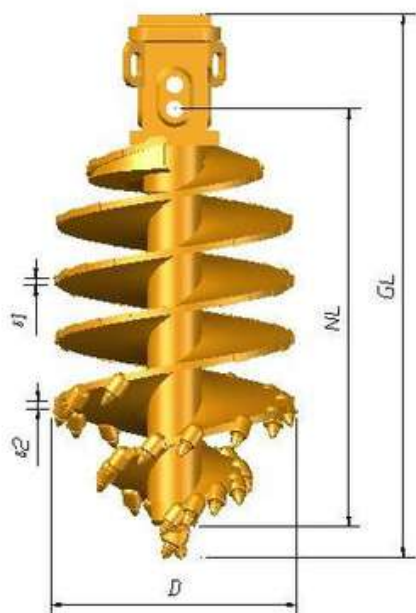
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Standard RP-4 pilot and bullet teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
500	1700	2240	30/30	686
600	1700	2240	30/30	720
700	1700	2240	30/30	835
800	1700	2240	30/30	984
900	1700	2240	30/30	1047
1000	1700	2240	30/30	1128
1100	1700	2240	30/30	1173
1200	1700	2240	30/30	1226
1300	1700	2240	30/30	1307
1500	1700	2240	30/30	1507
1800	1700	2240	30/30	1848
2000	1700	2240	40/40	2178

For any smaller or larger OD as per request.

DOUBLE-CUTDOUBLE-FLIGHT PROGRESSIVE ROCK AUGER



Features

- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Standard RP-4 pilot and bullet teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

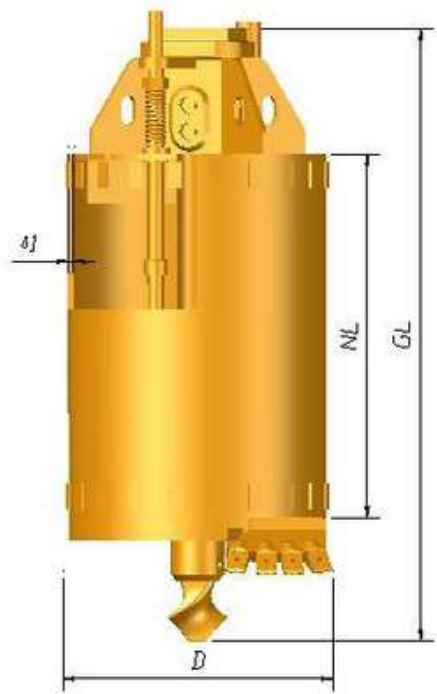
OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
500 600	1700	2240	30/30	697 757
700	1700	2240	30/30	840 1056
800	1700	2240	30/30	1194 1325
900	1700	2240	30/30	1360
1000	1700	2240	30/30	1394
1100	1700	22 40	30/30	1488 1707
1200	1700	2240	30/30	2176 2623
	1700	2240	30/30	
1300	1700	2240	30/30	
1500	1700	22 40	30/30	
1800	1700	2240	30/30	
2000	1700	2240	30/40	

For any smaller or larger OD as per request.

MORE PHOTOS



SINGLE-CUT SOIL BUCKET



Features

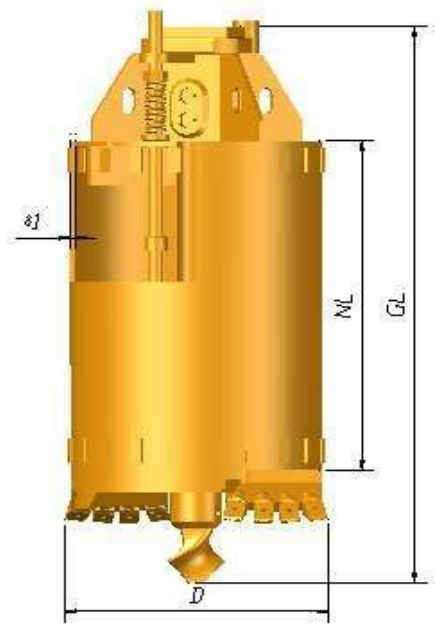
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Fishtail pilot and flat teeth
- Ventilation pipe
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1(mm)	Weight(kg)
600	1200	2485	20	980
700	1200	2485	20	1155
800 900	1200	2485	20	1303
1000	1200	2485	20	1500
1100	1200	2485	20	1735
1200	1200	2485	20	1930
	1200	2485	20	2150
1300	1200	2485	20	2371
1400	1200	2485	20	2628
1500	1200	2485	20	2853
1800	1000	2485	20	3943

For any smaller or larger OD as per request.

DOUBLE-CUT SOIL BUCKET



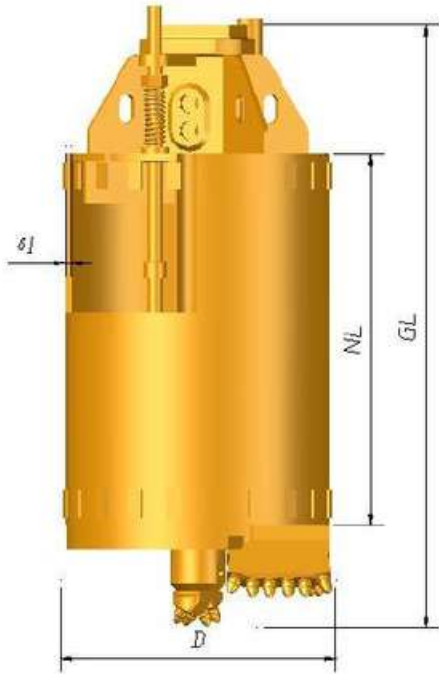
Features

- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Fishtail pilot and flat teeth
- Ventilation pipe
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION				
OD(mm)	NL(mm)	GL(mm)	δ1(mm)	Weight(kg)
600	1200	2485	20	954
700	1200	2485	20	1121
800 900	1200	2485	20	1267
10 00	1200 12	2485	20	1467
	00 1200	2485	20	1693
1100	1200	2485	20	1895
1200	1200	248 5	20	2104
1300	1200	2485	20	2310
1400	1200	2485	20	2529
1500	1000	2485	2 0	2783
1800		248 5	20	3880

For any smaller or larger OD as per request.

SINGLE-CUT ROCK BUCKET



Features

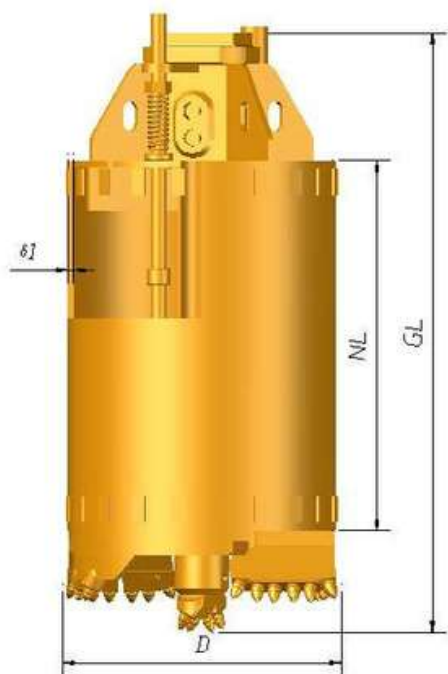
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Standard RP-4 pilot and bullet teeth
- Ventilation pipe
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1(mm)	Weight(kg)
600	1500	2485	20	1015
700	1500	2485	20	1200
800 900	1500	2485	20	1353
1000	1500	2485	20	1560
1100	1500	2485	20	1802
1200	1500	2485	20	2007
	1500	2485	20	2230
1300	1500	2485 24	20	2460
1400	1500	85	20	2723
1500	1500	2485	20	2960
1800	1500	2485	20	4065

For any smaller or larger OD as per request.

DOUBLE-CUT ROCK BUCKET



Features

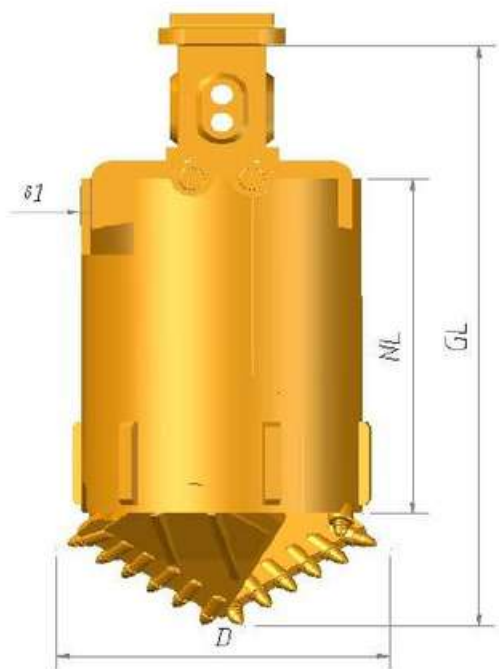
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Standard RP-4 pilot and bullet teeth
- Ventilation pipe
- Wearprotection(hardfacing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1(mm)	Weight(kg)
600	1500	2485	20	959
700	1500	2485	20	1133
800 900	1500	2485	20	1277
10 00	1500	2485	20	1490
	15 00	2485	20	1732
1100	1500	2485	20	1943
1200	1500	248 5	20	2161
1300	1500	2485	20	2382
1400	1500	2485	20	2631
1500	1500	2 485	2 0	2865
1800		248 5	20	3980

For any smaller or larger OD as per request.

CENTRIFUGAL DRILLING BUCKET



Features

- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

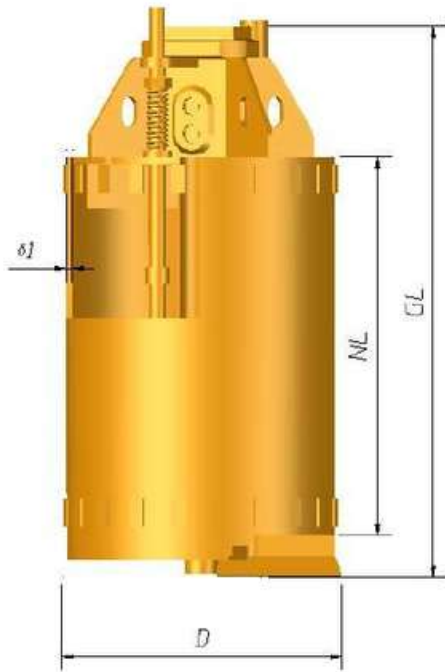
OD(mm)	NL(mm)	GL(mm)	δ1(mm)	Weight(kg)
600 700	1200	2085	30	870
800 900	1200	2120	30	1035
1000	1200	2155	30	1210
1200	1200	2200	30	1450
	1200	2245	30	1585
	1200	2255	30	1850
1300	1200	2265	30	2020
1400	1200	2285	30	2315
1500	1200	2315	30	2900
1800	1200	2350	30	5000

For any smaller or larger OD as per request.

MORE PHOTOS



SINGLE-CUTCLEANOUT BUCKET



Features

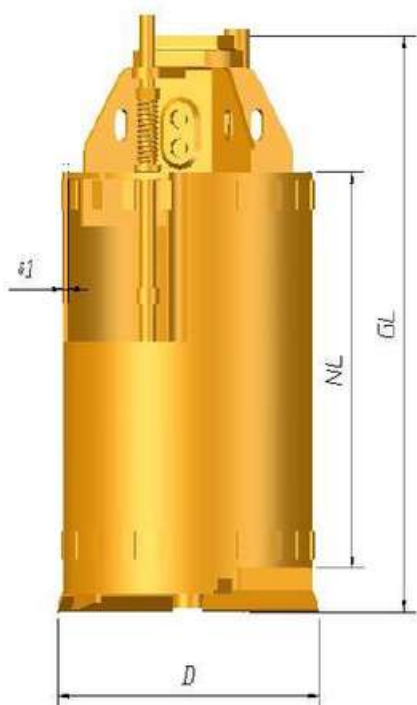
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Ventilation pipe
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1(mm)	Weight(kg)
600	1500	2125	20	926
700	1500	2125	20	1097
800 900	1500	2125	20	1244
1000	1500	2125	20	1435
1100	1500	2125	20	1661
1200	1500	2125	20	1852
	1500	2125	20	2065
1300	1500	2125	20	2290
1400	1500	212 5	20	2540
1500	1500	2125	20	2762
1800	1500	2125	20	3850

For any smaller or larger OD as per request.

DOUBLE-CUTCLEANOUT BUCKET



Features

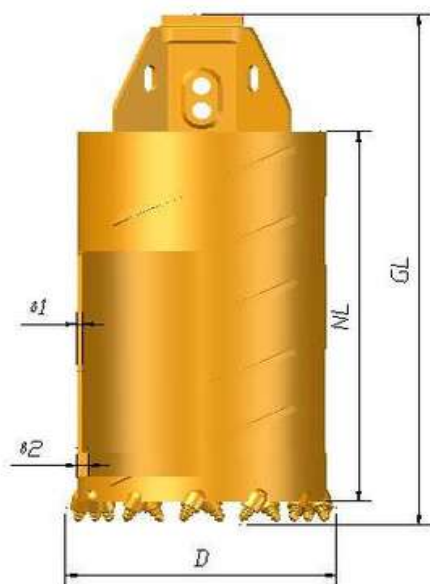
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Ventilation pipe
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1(mm)	Weight(kg)
600 700	1500	2125	20	892
800 900	1500	2125	20	1053
1000	1500	2125	20	1197
1100	1500	2125	20	1388
1200	1500	2125	20	1604
1300	1500	2125	20	1801
1400	1500	2125	20	2004
1500	1500	2125	20	2212
1800	1500	2125	20	2451
	1500	2125	20	2684
	1500	2125	20	3777

For any smaller or larger OD as per request.

CORE BARREL WITH BULLET TEETH



Features

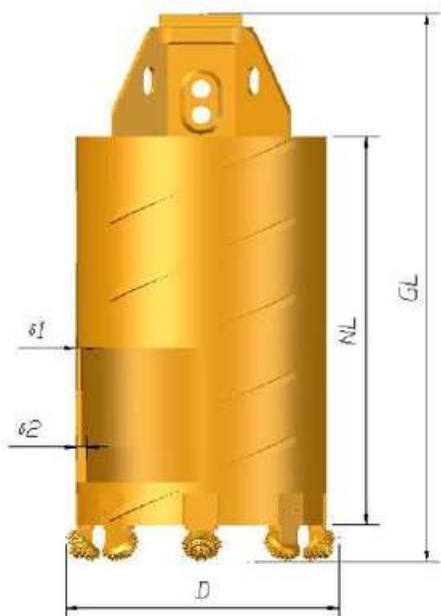
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- High-quality bullet teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
500	1500	2060	20/40	560 670
600	1500	2060	20/40	730
700	1500	2060	20/40	807
800	1500	2060	20/40	877 925
900	1500	2060	20/40	985
1000	1500	2060	20/40	1039 1098
1100	1500	2060	20/40	1171
1200	1500	2060	20/40	1294
1300	1500	2060	20/40	1429
1500	1500	2060	20/40	
1800	1500	2060	20/40	
2000	1500	2060	20/40	

For any smaller or larger OD as per request.

CORE BARREL WITH ROLLER BITS



Features

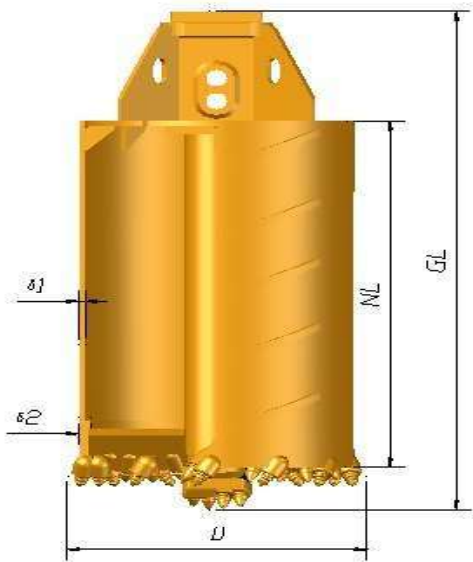
- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- High-quality bullet teeth
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)
50 0	15 00	2095	20/40	640 746
6 00	15 00	2095	20/40	880
700	1500	2095	20/40	1010 1200
800	1500	2095	20/40	
900	1500	2095	20/40	
1000	1500	2095	20/40	1407
1100	1500	2095	20/40 20/4	1478
1200	1500	209 5	0	1564
1300	1500	209 5	20/4 0	1670
1500	1500	2095	20/40	2000
1800	1500	2095	20/ 40	2570
2000	1500	2095	20/40	2900

For any smaller or larger OD as per request.

CORE BARREL WITH CROSS CUTTER



Features

- Optional 100/130/150/200 mm kelly box
- Optional casted or welded kelly box
- Standard RP4 pilot and bullet teeth
- Wear protection (hard facing)
- Standard weld inspection

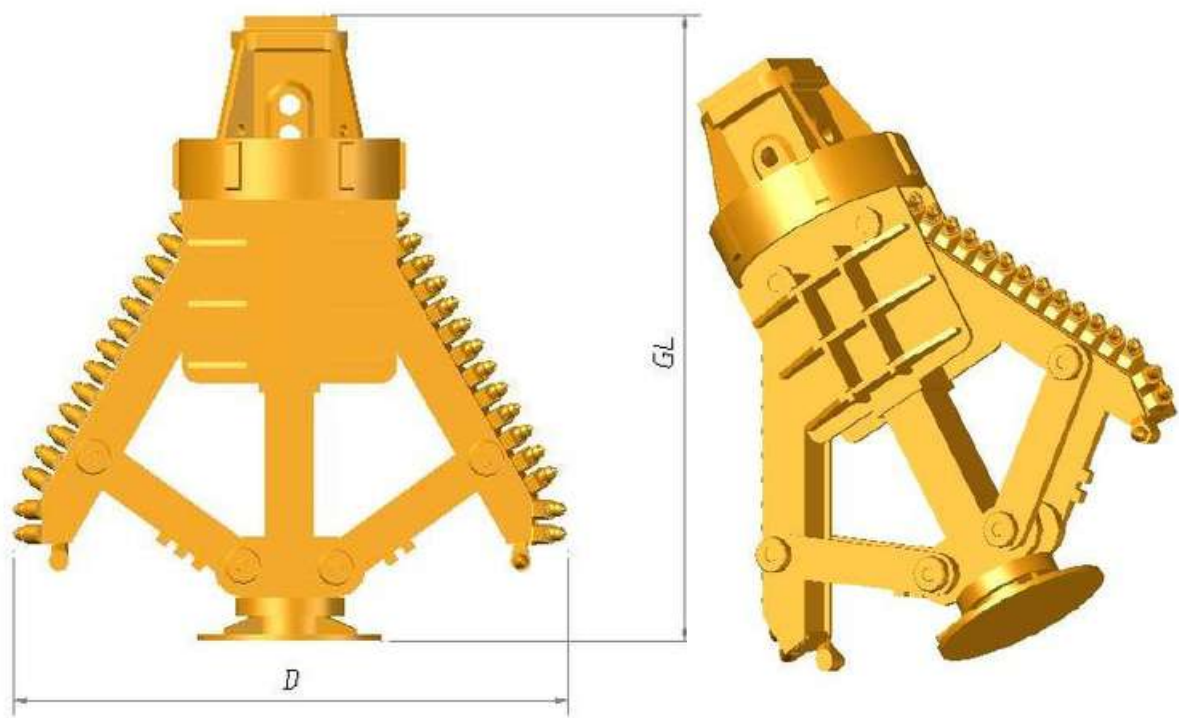
SPECIFICATION

OD(mm)	NL(mm)	GL(mm)	δ1/δ2(mm)	Weight(kg)	
500	1500	2125	20/40	675	795
600	1500	2125	20/40	930	
700	1500	2125	20/40	1265	
800	1500	2125	20/40	1415	
900	1500	2125	20/40	1565	
1000	1500	2125	20/40		
1100	1500	2125	20/40	1690	
1200	1500	2125	20/40	1846	
1300	1500	2125	20/40	1990	
1500	1500	2125	20/40	2291	
1800	1500	2125	20/40	2800	
2000	1500	2125	20/40	3132	

For any smaller or larger OD as per request.

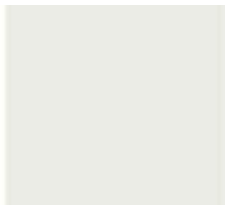
MORE PHOTOS



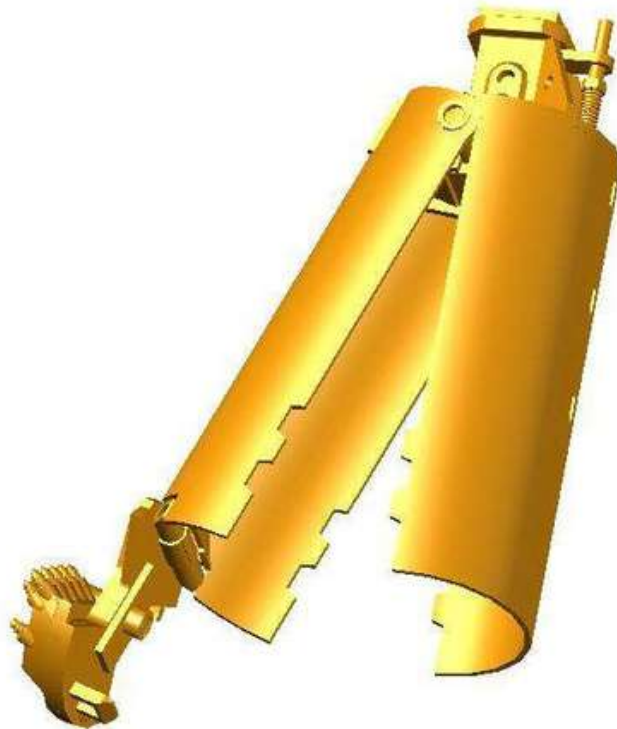
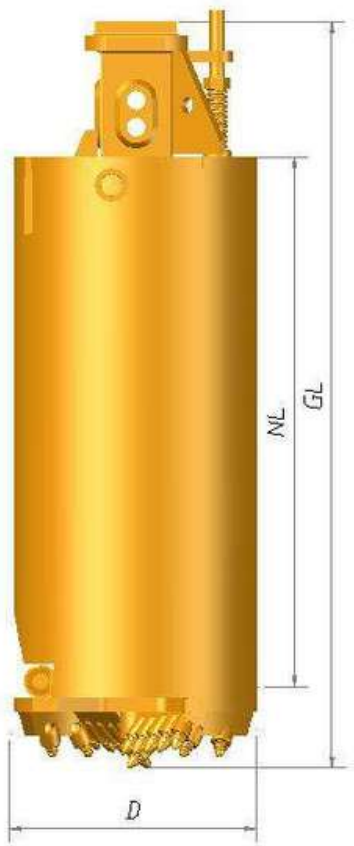


BELLING BUCKET

PS: hydraulic belling tool is in testing



*Morec olorc ustomizableu ponr equest

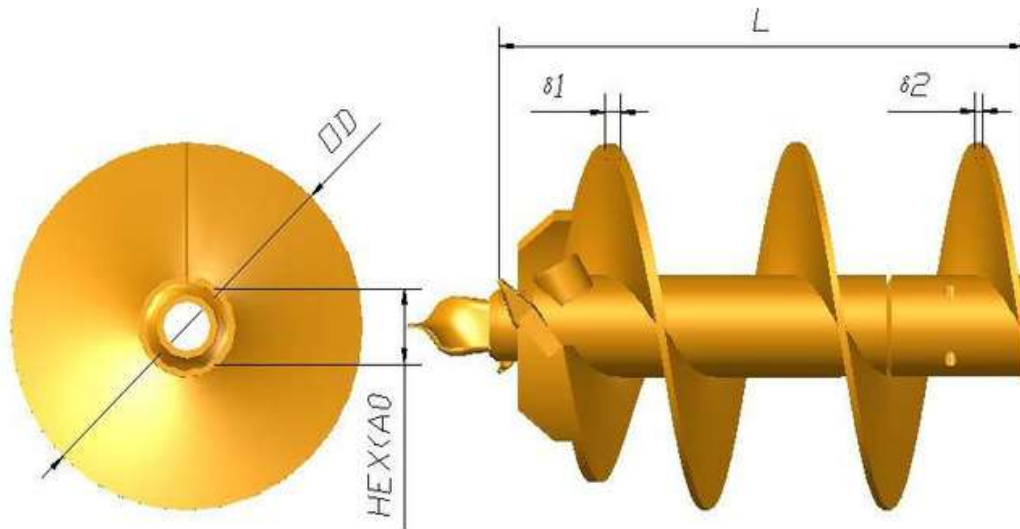


SPLIT BUCKET



*Morecolor customizable upon request

CFA SOIL AUGER



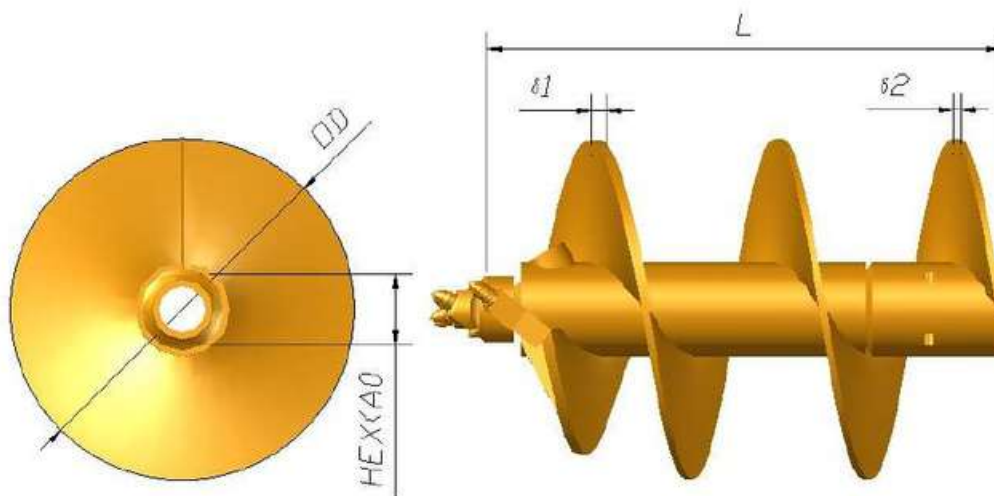
Features

- Forged hex or octangle coupler
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION			
OD(mm)	L(mm)	δ1/δ2(mm)	Weight(kg)
600	1500	30/20	452
700	1500	30/20	543
800	1500	30/20	604
900	1500	30/20	714
1000	1500	30/20	792
1100	1500	30/20	931
1200	1500	30/20	1050

For any smaller or larger OD as per request.

CFA ROCK AUGER



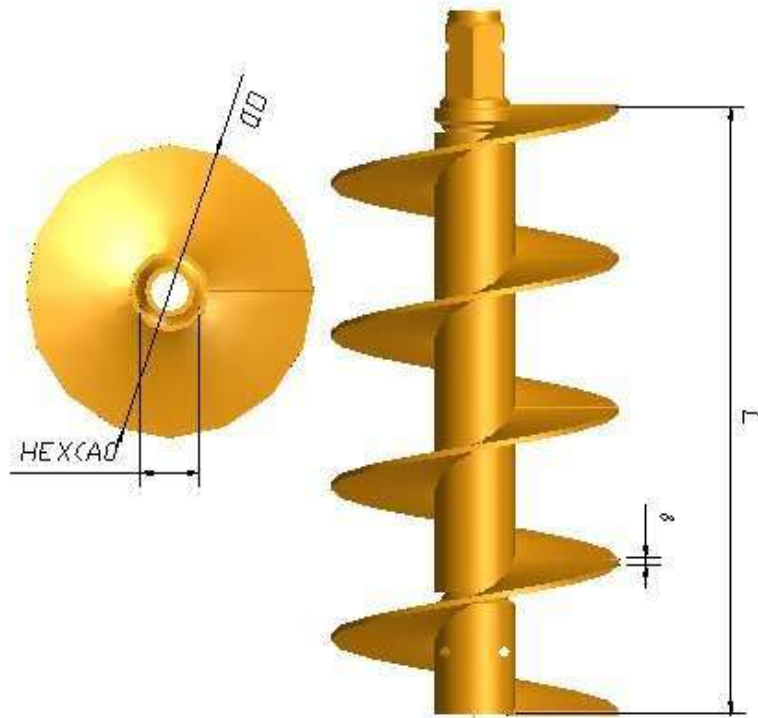
Features

- Forged hex or octangle coupler
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION			
OD (mm)	L(m m)	δ1/δ2(mm)	Weight(kg)
600	1500	30/20	454
700	1500	30/20	541
800	1500	30/20	601
900	1500	30/20	732
1000	1500	30/20	800
1100	1500	30/20	957
1200	1500	30/20	1089

For any smaller or larger OD as per request.

CFA FLIGHT



Features

- Forged hex or octangle coupler
- Wear protection (hard facing)
- Standard weld inspection

SPECIFICATION

OD(mm)	L(m)	δ(mm)	Weight(kg)
600	1/2/3/4/5/6	20	307/501/575/769/963/1156
700	1/2/3/4/5/6	20	339/564/670/896/1122/1347
800	1/2/3/4/5/6	20	376/639/782/1045/1308/1570
900	1/2/3/4/5/6	20	418/722/907/1212/1517/1821
1000	1/2/3/4/5/6	20	464/815/1046/1397/1748/2098
1100	1/2/3/4/5/6	20	513/912/1192/1592/1992/2391
1200	1/2/3/4/5/6	20	569/1024/1360/1816/2272/2727

For any smaller or larger OD as per request.

MORE PHOTOS



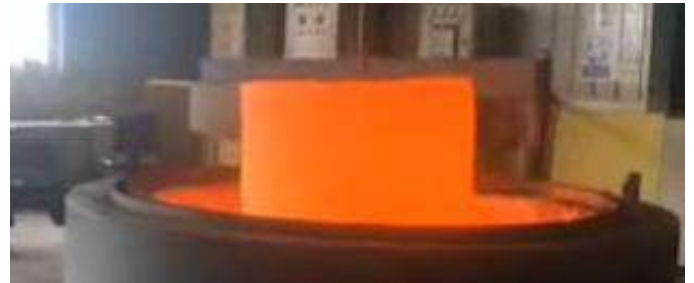
ADVANTAGES OFFHESS CASING

- ✓ High-quality raw material:
Q355B/NM360 tubes and 25 CrMo joints
- ✓ Higher verticality of drilled shafts with a linear tolerance lower than 2%
- ✓ Max. casing diameter up to $\varnothing$ 4800mm
- ✓ The rebars between outer and inner casing walls are arranged densely and regularly to enhance casing strength.
- ✓ Customized outer wall thickness of 10-18mm and inner wall thickness of 8-12mm depending on the casing size.



Forged or casted joints

ensures high strength and
better durability



Heat treatment

once sing joint has been
torsional strength



Semi-automatic welding

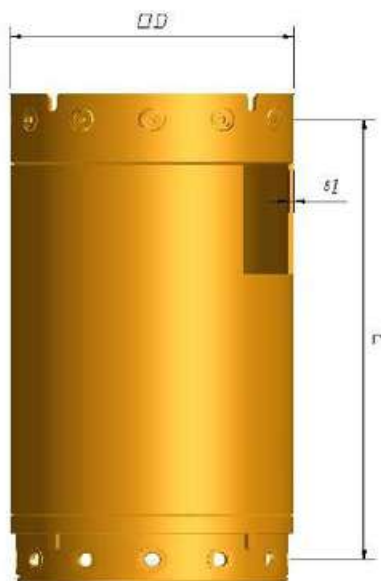
promises less maintenance
and better welding results



Wear protection

of external abrasion on the
casings so to prolong
its service life

SINGLE-WALLCASING



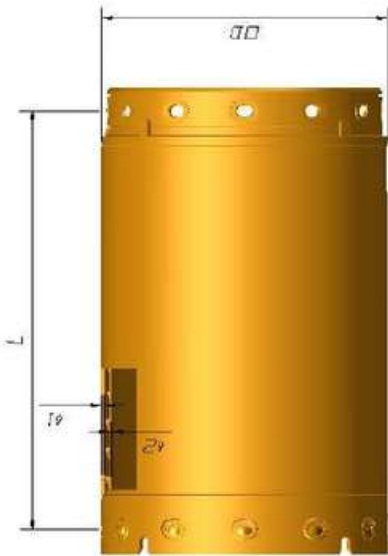
Features

- Wall thick optional
- High-quality regular type or “J” type casing joint
- Standard weld inspection

SPECIFICATION

OD(mm)	L(m)	δ1(mm)	Weight(kg)
620	2/3/4/5/6	20	665/960/1256/1552/1848
750	2/3/4/5/6	20	809/1169/1530/1890/2250
1080	2/3/4/5/6	20	1266/1822/2377/2933/3489
880	2/3/4/5/6	20	955/1380/1804/2228/2652
900	2/3/4/5/6	20	846/2280/2714 978/1412/1
1000	2/3/4/5/6	20	1090/1573/2056/2540/3023
1180	2/3/4/5/6	20	1291/1863/2435/3007/3579
1200	2/3/4/5/6	20	1312/1894/2476/3058/3640
1300	2/3/4/5/6	20	1425/2056/2687/3319/3950
1500	2/3/4/5/6	20	2572/3706/4841/5975/7110
1800	2/3/4/5/6	20	3102/4470/5839/7208/8576
2000	2/3/4/5/6	20	4243/6063/7899/9736/11572

DOUBLE-WALL CASING



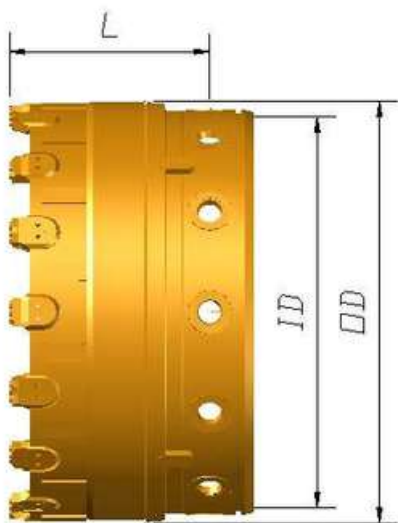
Features

- Forged or casted casing joint
- Max. casing diameter up to OD4800mm
- Customized outer wall thickness of 10-18mm
- Customized inner wall thickness of 8-12mm
- Intensive rebars between outer and inner casing walls
- Standard weld inspection

SPECIFICATION

OD(mm)	L(m)	δ1/δ2(mm)	Weight(kg)
620 750	2/3/4/5/6	12/8	707/1017/1328/1638/1949
880	2/3/4/5/6	12/8	865/1245/1624/2004/2384
900	2/3/4/5/6	12/8	1022/1472/1921/2370/2819
1000	2/3/4/5/6	12/8	1047/1507/1967/2427/2887
1180	2/3/4/5/6	16/8	1168/1682/2195/2708/3221
1200	2/3/4/5/6	16/8	1549/2254/2960/3666/4371
1300	2/3/4/5/6	16/8	1576/2294/3012/3730/4448
1500	2/3/4/5/6	16	1711/2491/3270/4050/4830
1800	2/3/4/5/6	/8	25 72/ 3706 /4841 /5975/7110
			3102/4470/5839/7208/8576
2000	2/3/4/5/6	16/8	4243/6063/7899/9736/11572
2500	2/3/4/5/6	16/8	5334/7625/9934/12243/14553
	2/3/4/5/6	16/8	

CASING SHOE



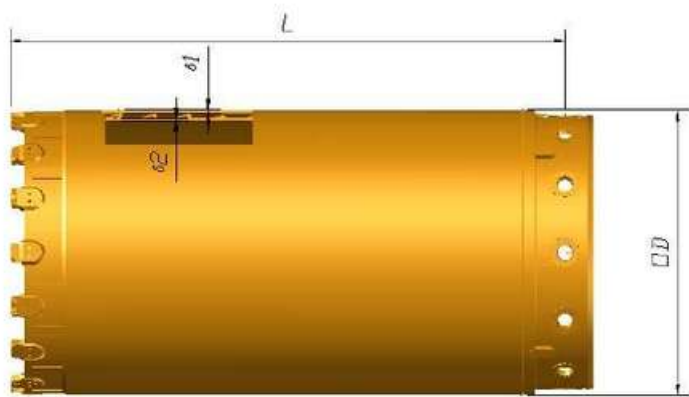
Features

- Long shoe available upon request
- Wear protection
- Standard weld inspection

SPECIFICATION

OD(mm)	ID(mm)	L(mm)	Weight(kg)
620 750	540	586	269
880 900	670	586	330
1000	800	586	389
1180	820	586	399
1200	20 9	586	445
1300	1100	586	529
1500	1120	586	539
1800	1220	586	584
2000	1420	722	971
2500	1720	722	1172
	1920	782	1662
	2420	782	2090

LONG CASINGSHOE



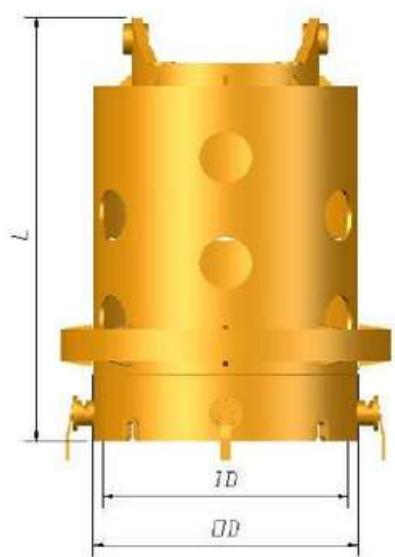
Features

- Wear protection
- Standard weld inspection
- Solid shoe or double walled shoe available

SPECIFICATION

OD(mm)	L(m)	$\delta 1/\delta 2$ (mm)	Weight(kg)
620	1/2	12/8	454/770
750	1/2	12/8	555/942
880	1/2	12/8	657/1108
900	1/2	12/8	673/1133
1000	1/2	12/8	751/1263
1180	1/2	16/8	949/1655
1200	1/2	16/8	967/1685
1300	1/2	16/8	1049/1829
1500	1/2	20/10	1648/2783
1800	1/2	20/10	1987/3358
2000	1/2	20/16	2754/4590
2500	1/2	20/16	3466 /5755

CASING DRIVE ADAPTER



Features

- High-quality welding
- Standard weld inspection

SPECIFICATION			
OD(mm)	ID(mm)	L(mm)	Weight(kg)
620	540	1789	662 750
750	670	1789	860
880	800	1789	880
900	820	1789	980 1180
1000	920	1789	1200
1180	1100	1789	1450
1200	1120	1789	1899
1300	1220	1789	2378
1500	1420	1924	3190
1800	1720	1924	4230
2000	1920	1984	
2500	2420	1984	

MORE PHOTOS



MORE PHOTOS





INTERLOCKING KELLY BAR



Features

- High quality and welding technology
- Warranty up to 12 month
- Compatible with Bauer, Liebherr, Soilmec

SPECIFICATION		
Type	FES12δ340-	Drilling depth Torque
3X13		36m/118'1.3" 120KN.m
FES12δ356-3X13		36m/118'1.3" 120KN.m
FES12δ377-4X14		52m/170'7.2" 150KN.m
FES12δ394-3X13		36m/118'1.3" 220KN.m
FES12δ406-4X14		52m/170'7.2" 200KN.m
FES12δ419-4X15		56m/183'8.8" 250KN.m
FES12δ445-4X15		56m/183'8.8" 250KN.m
FES12δ470-4X15		56m/183'8.8" 250KN.m
FES12δ508-5X15		70m/229'8" 280KN.m
FES12δ508-4X15		56m/183'8.8" 280KN.m
FES12δ530-4X17		63m/206'8" 300KN.m
FES12δ580-4X17		63m/206'8" 400KN.m

FRICTION KELLY BAR



Features

- High quality and welding technology
- Warranty up to 12 month
- Compatible with Bauer, Liebherr, Soilmech

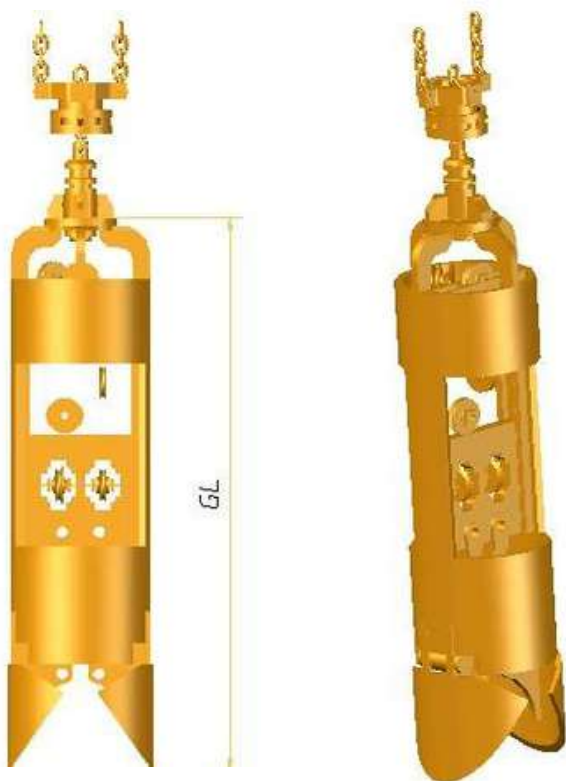
SPECIFICATION		
Type	Drilling depth	Torque
FES12δ340-4X13	49m/160'9"	120KN.m
FES12δ356-4X13	49m/160'9"	120KN.m
FES12δ377-4X14	52m/170'7.2"	150KN.m
FES12δ394-4 ^{X13}	36m/118'1.3"	220KN.m
FES12δ406-5X14	64m/209'11.6"	200KN.m
FES12δ419-5X15	70m/229'8"	250KN.m
FES12δ445-5X15	70m/229'8"	250KN.m
FES12δ470-6X15	83m/272'3.7"	250KN.m
FES12δ508-6X16	89m/291'12"	280KN.m
FES12δ530-6X18.7	110m/360'10.7"	300KN.m
FES12δ580-6X18.7	110m/360'10.7"	400KN.m

MORE PHOTOS





HAMMER GRAB



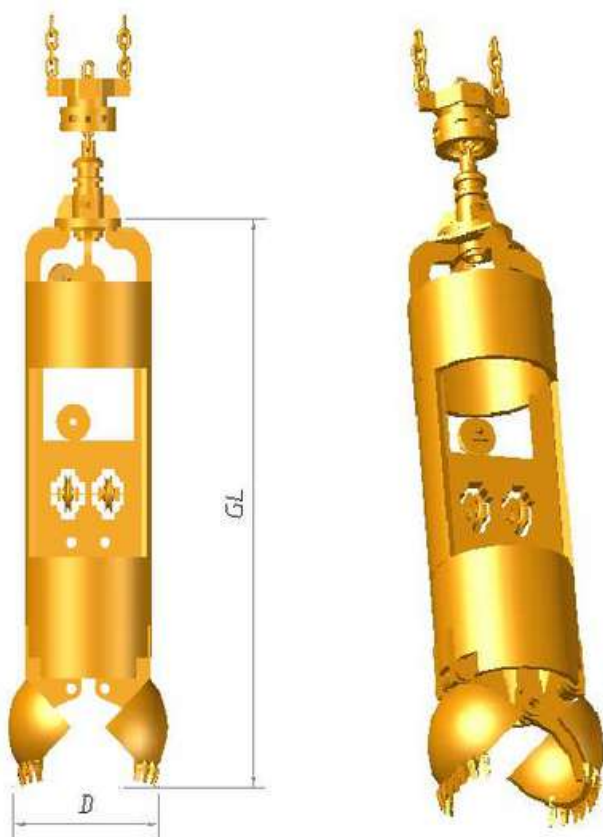
Features

- Enhanced weight of the body for better punch force
- Optimized structure
- Low maintenance and longer service life

SPECIFICATION

OD(mm)	GL(mm)	Volume(l)	Weight(T)
890	3750	210	2.5 3.5
1070	3980	430	4.5
1360	4250	850	9
1650	5630	1050	9.6
1800	5680	1200	

SPHERICAL GRAB



Features

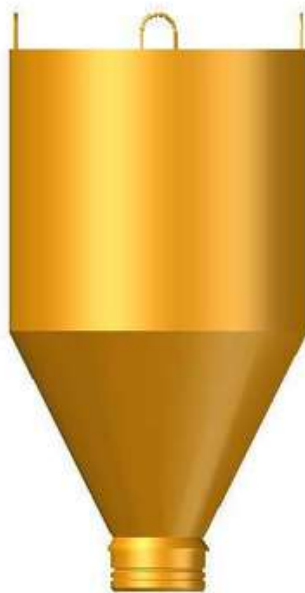
- Enhanced weight of the body for better punch force
- Optimized structure
- Low maintenance and longer service life

SPECIFICATION

OD(mm)	GL(mm)	Volume(l)	Weight(T)
890	3750	210	2.5 3.5
1070	3980	430	4.5
1360	4250	850	9
1650	5630	1050	9.6
1800	5680	1200	



1



2

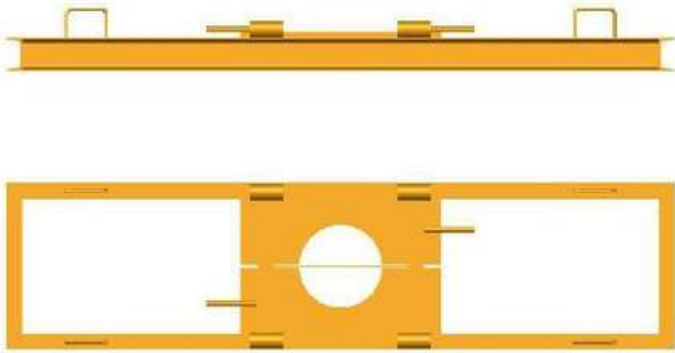


3

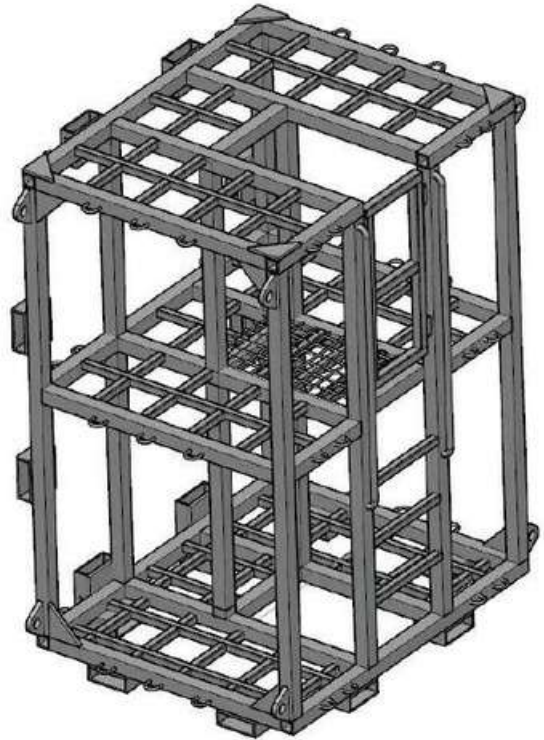
TREMIE SYSTEM

FES's tremie system consists of the following parts:

- 1.Swivel joint
- 2.Tremie hopper
- 3.Tremie pipe
- 4.Suspension jig
- 5.Tremie frame
- 6.Wire rope



4



5

APPLICATION

Tremie pipes are normally used to introduce concrete into a pile, after the steel cage reinforcement is placed in operation, to avoid concrete pile breakage or gaps. FES tremie pipes are made of high-quality steel plates in order to guarantee high resistance.

TREMIE PIPE OD(MM)

114

152

168

203

219

245

273

MORE PHOTOS









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