

Drilling Bucket with Cleaning Edge

Drilling buckets with cleaning edge are designed for efficient soil and rock drilling. The cleaning edge ensures effective removal of debris, optimizing drilling speed and efficiency.



Overview

High-Performance Drilling Buckets

The DBQK-L series drilling buckets with cleaning edges are engineered for professional soil and rock drilling in demanding construction and geotechnical environments. Featuring reinforced cutting edges and a specialized cleaning mechanism, these tools optimize debris removal to significantly enhance drilling speed and borehole stability. Available in three distinct series tailored to specific torque requirements, they provide a versatile solution for foundation work and large-scale piling projects.

Series Classification

| Diameter (mm) | Casing Specification | Cylinder Thickness (mm) | Bottom Thickness (mm) | Height (mm) | | Weight (kg) | | | | |
|---------------|----------------------|-------------------------|-----------------------|-------------|------|-------------|------|-------|---|----|
| | | | | h1 | h2 | DBLS | DBSF | DBSLF | | |
| 520 | G20/540 | 12 | 40 | 1200 | 1470 | 685 | 2 | 2 | 3 | 6 |
| 600 | 750/670 | 12 | 40 | 1200 | 1470 | 780 | 2 | 2 | 3 | 6 |
| 700 | 880/800 | 16 | 40 | 1200 | 1470 | 830 | 3 | 3 | 4 | 8 |
| 780 | 880/800 | 16 | 40 | 1200 | 1470 | 1015 | 3 | 3 | 4 | 8 |
| 900 | 1000/900 | 16 | 40 | 1200 | 1470 | 1165 | 4 | 4 | 5 | 11 |
| 1000 | 1180/1100 | 16 | 40 | 1200 | 1470 | 1220 | 4 | 4 | 5 | 11 |
| 1060 | 1180/1100 | 16 | 50 | 1200 | 1470 | 1300 | 4 | 4 | 5 | 12 |
| 1180 | 1300/1220 | 16 | 50 | 1200 | 1470 | 1815 | 6 | 6 | 5 | 14 |
| 1350 | 1500/1400 | 16 | 50 | 1200 | 1470 | 2315 | 7 | 7 | 5 | 14 |
| 1500 | 1650/1550 | 16 | 50 | 1000 | 1270 | 2850 | 8 | 8 | 5 | 17 |
| 1800 | 2000/1880 | 16 | 50 | 1000 | 1270 | 3450 | 10 | 10 | 9 | 21 |

Series A configuration optimized for torques up to 12,000 KN.m.

| Diameter (mm) | Casing Specification | Cylinder Thickness (mm) | Bottom Thickness (mm) | Height (mm) | | Weight (kg) | | | | |
|---------------|----------------------|-------------------------|-----------------------|-------------|------|-------------|------|-------|----|----|
| | | | | h1 | h2 | DBLS | DBSF | DBSLF | | |
| 520 | G20/540 | 16 | 40 | 1200 | 1470 | 760 | 2 | 2 | 3 | 6 |
| 600 | 750/670 | 16 | 40 | 1200 | 1470 | 870 | 2 | 2 | 3 | 6 |
| 700 | 880/800 | 20 | 40 | 1200 | 1470 | 920 | 3 | 3 | 4 | 8 |
| 780 | 880/800 | 20 | 40 | 1200 | 1470 | 1120 | 3 | 3 | 4 | 8 |
| 900 | 1000/900 | 20 | 40 | 1200 | 1470 | 1280 | 4 | 4 | 5 | 11 |
| 1000 | 1180/1100 | 20 | 40 | 1200 | 1470 | 1350 | 4 | 4 | 5 | 11 |
| 1060 | 1180/1100 | 20 | 50 | 1200 | 1470 | 1440 | 4 | 4 | 5 | 12 |
| 1180 | 1300/1220 | 20 | 50 | 1200 | 1470 | 1940 | 6 | 6 | 5 | 14 |
| 1350 | 1500/1400 | 20 | 50 | 1200 | 1470 | 2360 | 7 | 7 | 5 | 14 |
| 1500 | 1650/1550 | 20 | 50 | 1200 | 1270 | 3040 | 8 | 8 | 5 | 17 |
| 1800 | 2000/1880 | 20 | 50 | 1000 | 1270 | 3640 | 10 | 10 | 9 | 21 |
| 2000 | 2300/2080 | 20 | 50 | 1000 | 1270 | 4600 | 12 | 12 | 13 | 25 |

Series B configuration for medium-high torque requirements (12,000 - 20,000 KN.m).

| Diameter (mm) | Casing Specification | Cylinder Thickness (mm) | Bottom Thickness (mm) | Height (mm) | | Weight (kg) | | | | |
|---------------|----------------------|-------------------------|-----------------------|-------------|------|-------------|------|-------|----|----|
| | | | | h1 | h2 | DBLS | DBSF | DBSLF | | |
| 520 | G20/540 | 20 | 50 | 1200 | 1470 | 820 | 2 | 2 | 3 | 6 |
| 600 | 750/670 | 20 | 50 | 1200 | 1470 | 940 | 2 | 2 | 3 | 6 |
| 700 | 880/800 | 25 | 50 | 1200 | 1470 | 1010 | 3 | 3 | 4 | 8 |
| 780 | 880/800 | 25 | 50 | 1200 | 1470 | 1240 | 3 | 3 | 4 | 8 |
| 900 | 1000/900 | 25 | 50 | 1200 | 1470 | 1340 | 4 | 4 | 5 | 11 |
| 1000 | 1180/1100 | 25 | 50 | 1200 | 1470 | 1430 | 4 | 4 | 5 | 11 |
| 1060 | 1180/1100 | 25 | 50 | 1200 | 1470 | 1540 | 4 | 4 | 5 | 12 |
| 1180 | 1300/1220 | 25 | 50 | 1200 | 1470 | 2040 | 6 | 6 | 5 | 14 |
| 1350 | 1500/1400 | 25 | 50 | 1200 | 1470 | 2460 | 7 | 7 | 5 | 14 |
| 1500 | 1650/1550 | 25 | 50 | 1000 | 1270 | 3140 | 8 | 8 | 5 | 17 |
| 1800 | 2000/1880 | 25 | 50 | 1000 | 1270 | 3740 | 10 | 10 | 9 | 21 |
| 2000 | 2300/2080 | 25 | 50 | 1000 | 1270 | 4700 | 12 | 12 | 13 | 25 |

Series C heavy-duty configuration for extreme torque applications up to 35,000 KN.m.

Operational Torque Ranges

12000 KN.m
Series A Max Torque

20000 KN.m
Series B Max Torque

35000 KN.m
Series C Max Torque

Technical Specifications

Dimension Ranges

| Parameter | Minimum | Maximum |
|--------------------|---------|----------|
| Diameter | 520 mm | 3500 mm |
| Cylinder Thickness | 12 mm | 25 mm |
| Bottom Thickness | 40 mm | 60 mm |
| Height (h1) | 1000 mm | 1200 mm |
| Height (h2) | 1270 mm | 1470 mm |
| Weight | 685 kg | 13755 kg |

Maximum Teeth Configuration

53 pcs

Tooling & Compatibility

Compatible Drilling Systems

- DBLS
- DBLSF
- DBLSF-K
- SBLS
- SBLSF
- SBLSF-K

Available Tooth Types

FZ Type, R Type, Cleaning Edge

Application

Ideal Applications

Rock Drilling • Soil Excavation • Piling Foundations • Geotechnical Engineering • Borehole Cleaning