

Drilled Shaft & Shoring Equipment





Drilled Shaft Equipment

1. Crane Mounted Drills
2. Rotary Drills / Low Overhead Drills
3. Tieback Drills
4. Oscillator / Rotator Equipment
5. Choosing the right equipment for your project.



Crane Mounted Drills





Crane Mount Drilling



Advantages:

- Drilling Radius
- Barge Work

Disadvantages:

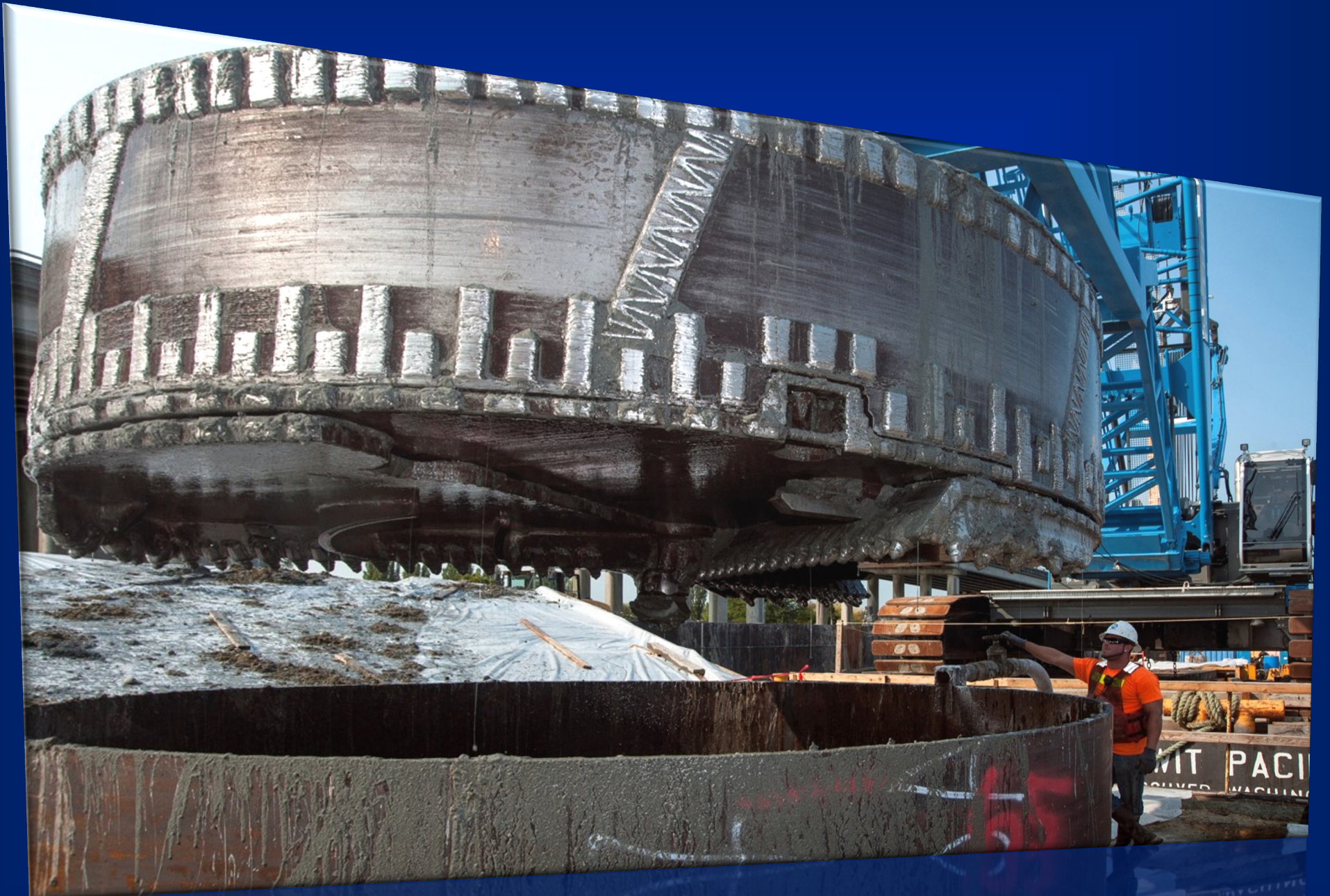
- Takes the right ground conditions
- Not able to crowd



Equipment



Equipment



Equipment



Equipment



Equipment



Rotary Drill Rigs

Rotary Drill Examples being Used by the industry

- BG-15s
- BG-18s
- BG-20s
- LB-20s
- BG-24s
- LB-24s
- BG-28s
- BG-39s
- BG-40s
- LB-44s
- BG-46s
- BG-50s



Rotary Drill Rigs

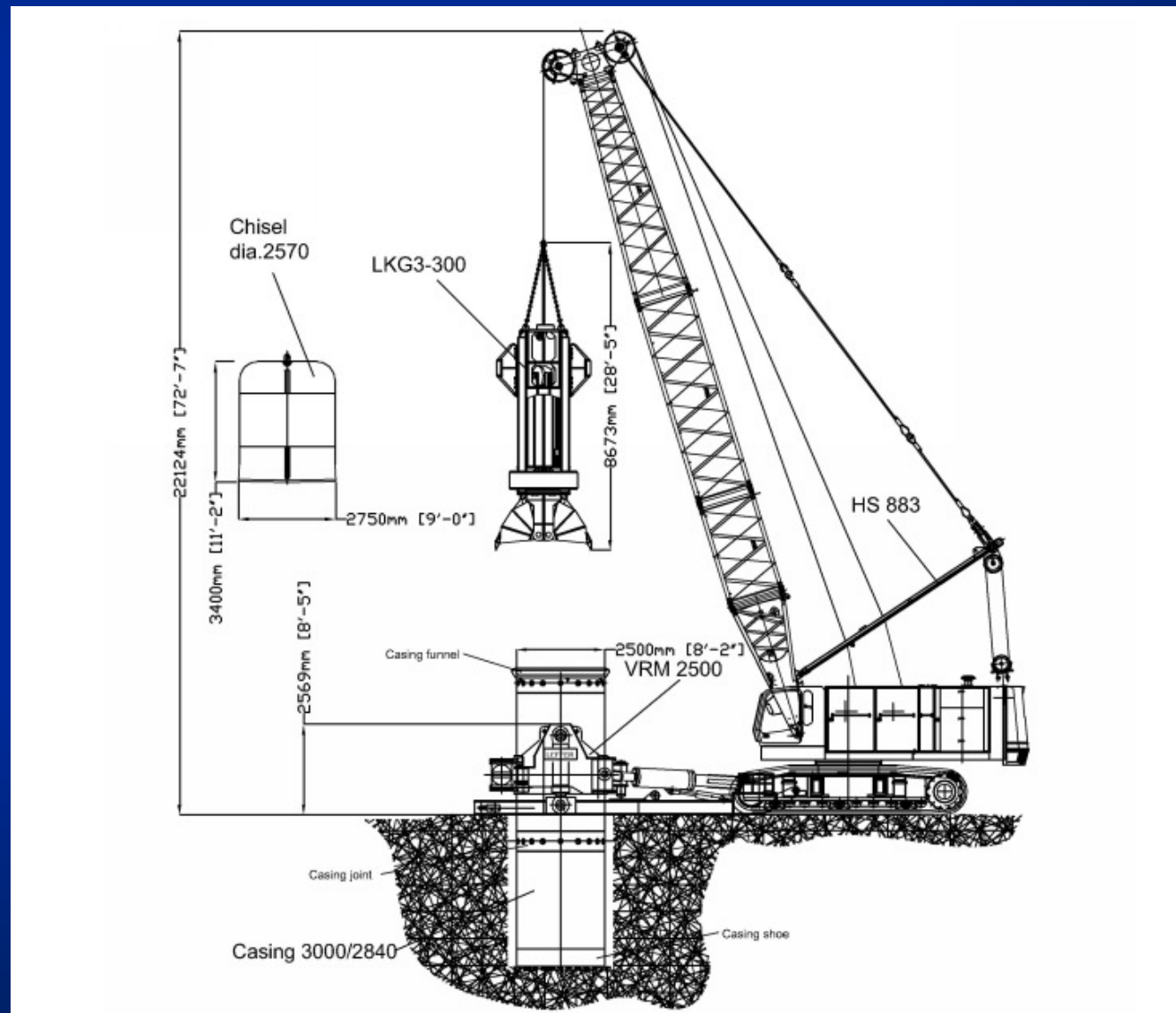
Advantages:

1. Versatile Machines

- Not pigeonholed to one type of drilled shaft
- They can complete all types of drilled shafts
 - Open hole
 - Slurry
 - Temporarily cased
 - Oscillated Shafts
 - Augercast Shafts



Top Drive Drill Rigs



Equipment



Equipment



Equipment





Equipment



Equipment



Equipment



Equipment



Equipment



Rotary Drill Rigs

Varying sizes to fit the task:

BG15 = 13' wide x 15' weighing 110,000 lbs
Can drill 5' diameter by 100'
Transported on one low boy truck

BG50 = 20' wide x 32' long weighing roughly
500,000+ lbs depending on tooling & setup.
Can drill 12' diameter x 270'+
Transported on 12 trucks.





Low Overhead Drill Rigs

Low Overhead Top Drive Drills

- BG-12 (don't currently own)
- BG-24
- Excavator Mounted Drills:
 - LoDrill's
 - Watons'
 - CZM

Low Overhead Top Drive Drill Rigs



Low Overhead Top Drive Drill Rigs



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Low Overhead Top Drive Drill Rigs





Low Overhead Top Drive Drill Rigs





Tieback & Soil Nail Drills

Klemm

Davey

Huttie

All provide drills in various sizes that have their own benefits and strengths.

Equipment



Equipment





Klemm 806



Davey DK 920



Equipment





Oscillator / Rotator

- **Leffer 118KL (1 meter)**
- **Leffer 1500KL (1.5 meter)**
 - Use reduction inserts for 1.2 meter shafts
- **Leffer 2000KL (2 meter)**
 - Use reduction inserts for 1.8 meter shafts
- **Leffer 2200KL (2.2 meter)**
- **Leffer 2500HD (2.5 meter)**
- **Leffer 3000 (3 meter)**
 - Use reduction inserts to drill 2.8 meter shafts
- **Leffer 3050 (10' OD)**
 - Use reduction inserts to drill 3.0 meter and 2.8 meter shafts.
- **Leffer 3300 (3.3 meter)**
- **Leffer 3500 (3.5 meter)**
- **Leffer 3800 (3.8 meter)**
 - We have reduction inserts to go down to 3.730, 3.66 and 3.430 meter.



Oscillator / Rotator

What can be attached to the oscillator

Typical to drill shafts up to 2 meter OD and dig shafts 2 meter and above.

KL Oscillators means that it attaches to a drill rig and will not attach to a dig crane.

Rotary Drills (BG/LB24, BG40, BG46, BG50)

Leffer 118KL

Leffer 1500KL

Leffer 2000KL

Leffer 2200KL

Leffer 2500KL

Dig Crane (Liebherr 885, 895)

Leffer 2500

Leffer 3000

Leffer 3050

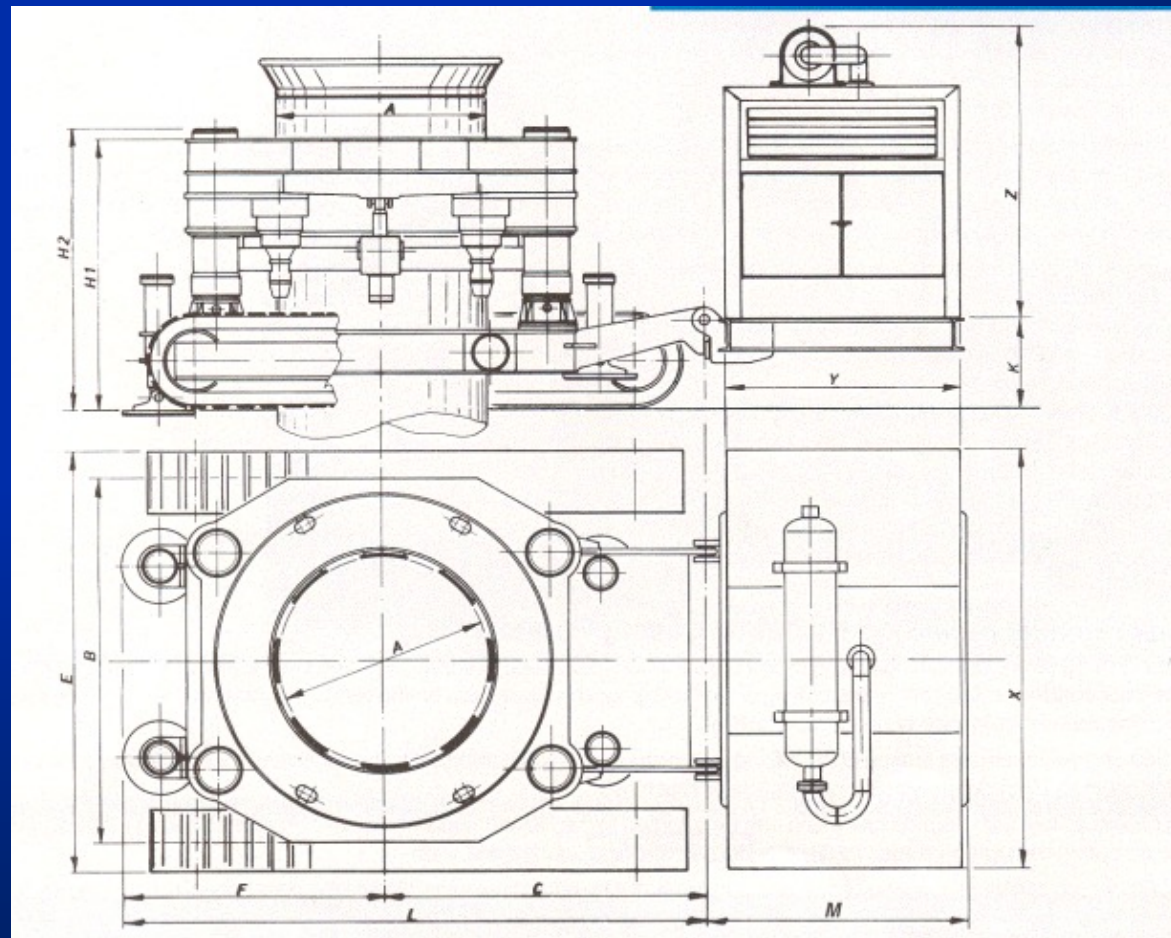
Leffer 3300

Leffer 3500

Leffer 3800

Oscillator / Rotator

- Leffer RDM 3000



Advantages of Using Oscillator/Rotator Equipment



Equipment



Equipment





Installing 2.5 meter shafts with a 2.5 meter oscillator



Equipment



Installing 3 meter shafts with a 3 meter oscillator



Equipment



Installing 3 meter shafts with a 3.3 meter oscillator and 895 dig crane



Equipment



Installing 3.8 meter shafts with the 3.8 meter oscillator and 895 dig crane



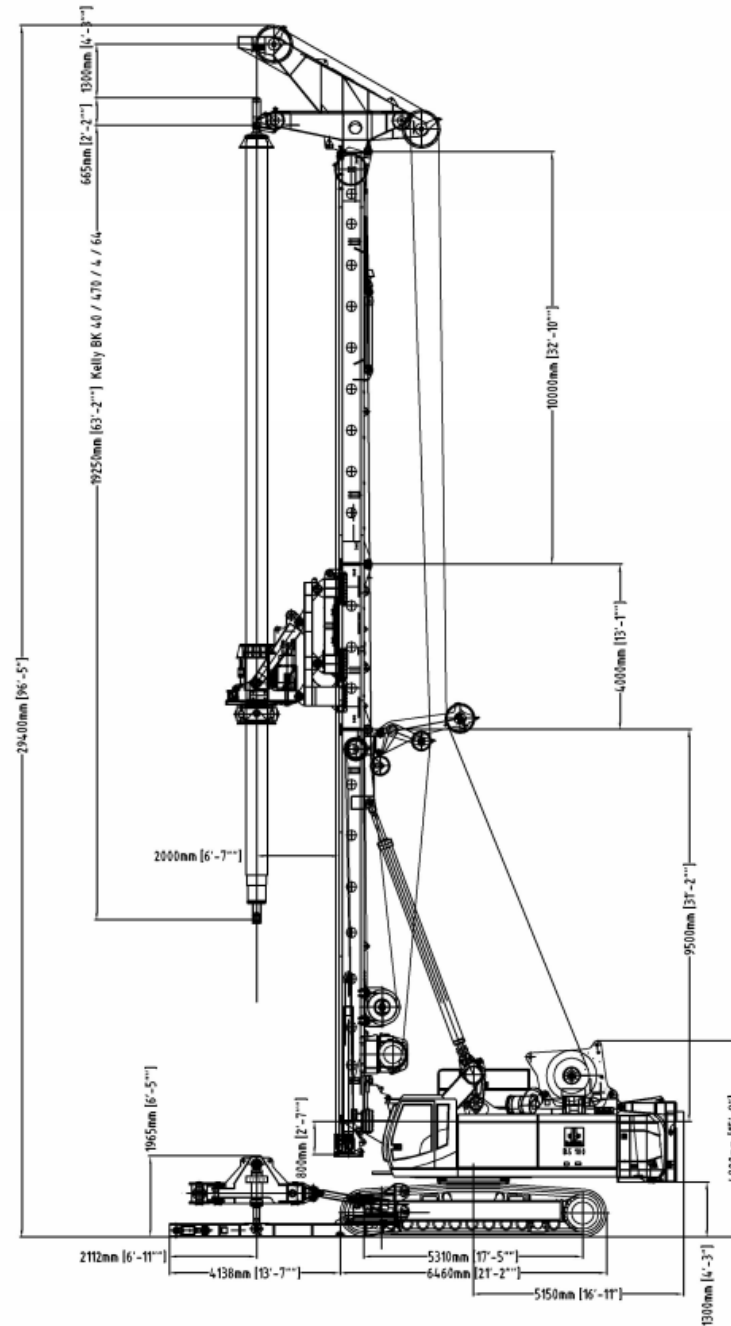
Equipment



Equipment



Equipment



Choosing The Right Equipment Is key to a Successful Project



The right people don't hurt either.

