Oscillator/Rotator Method of Drilled Shaft Construction

Jeff Grieder
NW Area - Chief Engineer
Oscillator and Rotator Drilled Shafts

Diameter Possibility: 1,000-3,000mm
Depth Possibility Proven: 85m
Control Device can achieve verticality of 1/200

Caving Soil

Exchangable Type Tip WS 95/56

Boring Depth : 85m
ATS VRM Casing Oscillator
Automatic pressure release to sink down the casing in order to ensure the verticality.

Boring Depth: 85m
Oscillator and Rotator Drilled Shafts
Oscillator and Rotator Drilled Shafts
Oscillator and Rotator Drilled Shafts

Position casing oscillator to pile spot

Install additional base frame
Oscillator and Rotator Drilled Shafts

Install bottom casing and top casing section
Oscillator and Rotator Drilled Shafts

- Grab out casing materials
- Install casing funnel
Oscillator and Rotator Drilled Shafts

Grab out casing materials
Oscillator and Rotator Drilled Shafts

Grab out casing materials
Oscillator and Rotator Drilled Shafts

Steel Cage Installation

Lower down steel cage
Oscillator and Rotator Drilled Shafts

Install Tremie Pipe
Oscillator and Rotator Drilled Shafts

Remove working platform and casing section
Oscillator and Rotator Drilled Shafts

Remove Casing section and tremie pipe section
Oscillator and Rotator Drilled Shafts

Remove charging funnel, working platform, and tremie pipe sections. Extract casing section and remove Bottom Casing.
Oscillator and Rotator Drilled Shafts
Oscillator and Rotator Drilled Shafts
Oscillator and Rotator Drilled Shafts
Oscillator and Rotator Drilled Shafts

Diameter Possibility: 1,000-3,000mm
Depth Possibility Proven: 85m
Control Device can achieve verticality of 1/300

Exchangable Type Tip WS 95/56
Exchangable Type Tip BFZ
Boring Depth: 85m
Oscillator and Rotator Drilled Shafts
Oscillator and Rotator Drilled Shafts
Oscillator and Rotator Drilled Shafts
Questions?