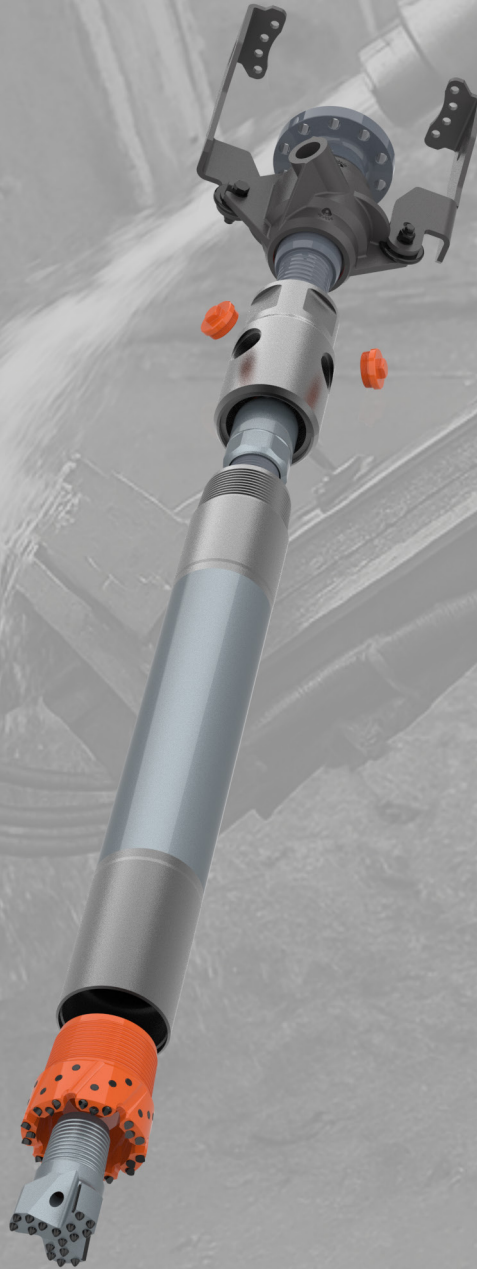




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OVERBURDEN TOOLING

VIBRO DRILLING TDV

03/2026



TDV DRILLING SYSTEM

TWIN DRIVE™ VIBRO TOOLING

A synergy between conventional construction tooling and the dedicated sonic tooling used in soil sampling for efficient drilling with vibro drill hammers of all kinds.

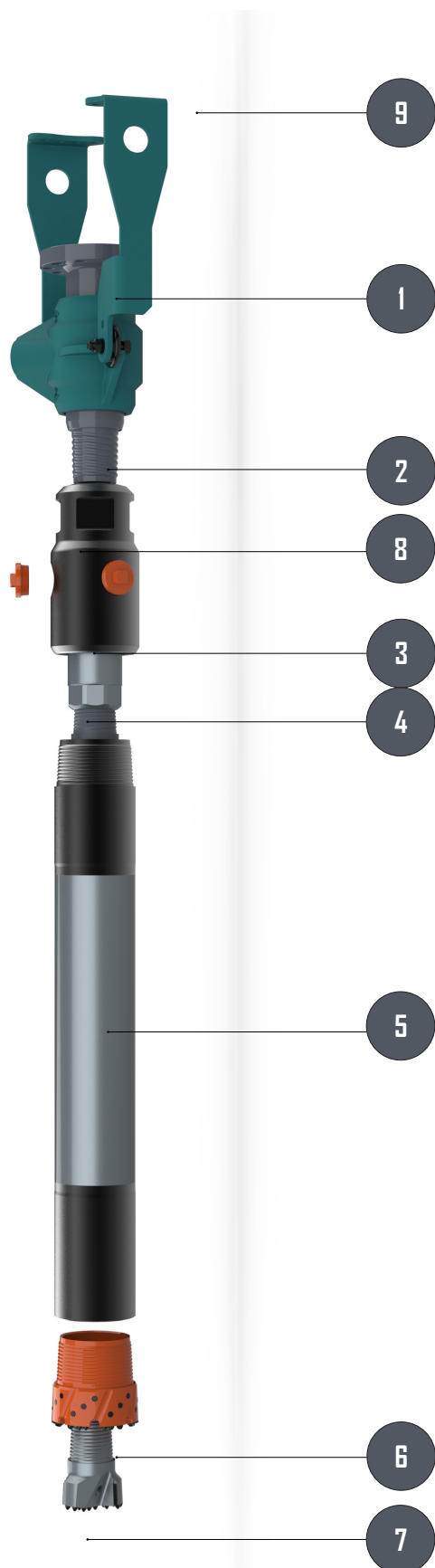
We continue to drive product innovation through our engineering team in Germany as well as our global engineering organization.



TDV DRILLING SYSTEM



DRILL STRING COMPONENTS



1	FLUSHING HEAD
2	EJECTION BELL
3	BALANCING ROD
4	INNER ROD
5	CASING
6	CASING BIT
7	INNER STRING BIT
8	PLUG
9	RETAINING PART

SYSTEM AND COMPONENTS



DRILL HEAD: VIBRO DRILL HEADS

Flushing Medium:
Casing:

Air, water or mud
Twin Drive Vibro percussive,
friction welded

Inner drill rod:

Twin Drive Vibro percussive,
friction welded

Casing crown:

Ring bit with tungsten carbide
inserts

Inner bit:

Full face bit with tungsten carbide
inserts

Drilling direction:

Left-hand or right-hand

Diameter offering:

89mm (3.5") to 203mm (8")

GROUND CONDITIONS

Gravel, sand, silt, some slate, limestone, limited boulders, clay and hard rock

SYSTEM FEATURES

- Dual string system with internal flushing or single drill string
- Stop casing at any depth while drilling continues with inner rod
- Higher drilling speed and depth compared to standard percussive
- Less wear through lower torque requirements
- Flexible system for a wide range of ground conditions

FLUSHING HEAD (1)

The flushing head allows for the introduction of flushing media into the duplex vibro drilling string and exit through the ejection bell. The torque bracket is attached to the flushing head.

EJECTION BELL (2)

The ejection bell is part of the flushing head assembly and includes the holes for the ejection of drilling fluids/chips.

BALANCING ROD (3)

The balancing rod equalizes the length of the ejection bell for the position of inner rod / inner drill bit relative to the casing.

INNER DRILL ROD (4)

The inner drill string of vibro duplex drill systems are friction welded rotary percussive rods.

CASING (5)

Duplex drilling systems utilize vibro percussive friction welded casing.

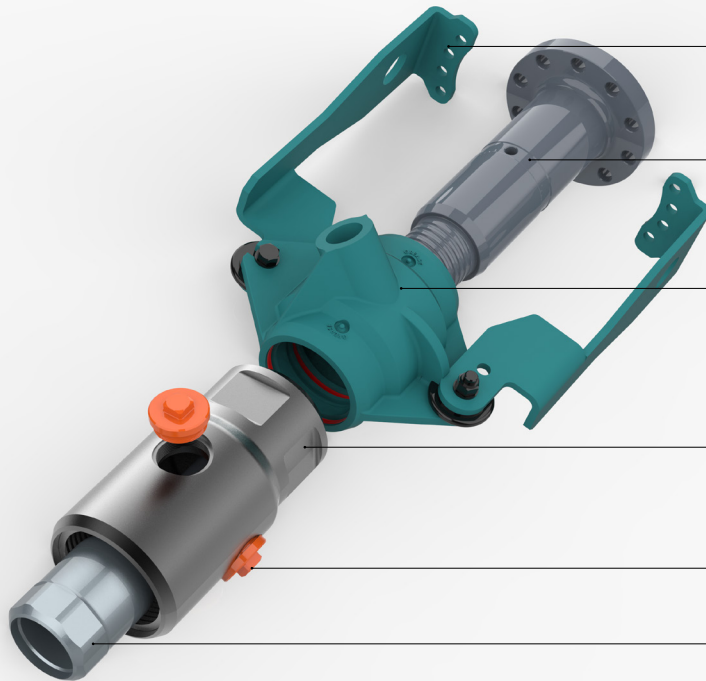
CASING BIT (6)

Casing bits for vibro duplex systems are ring bits with tungsten carbide inserts.

INNER STRING BIT (7)

The inner drill string of vibro duplex drilling systems typically utilizes a full face percussive bit.

DRILL STRING COMPONENTS- FLUSHING HEAD COMPLETE



RETAINING PART: Prevents the twisting of the flushing ring. (Special design by Eurodrill)

FLUSHING BODY: To match with the hydraulic drifter shank on the drill and to match the balancing rod as well as the ejection bell.

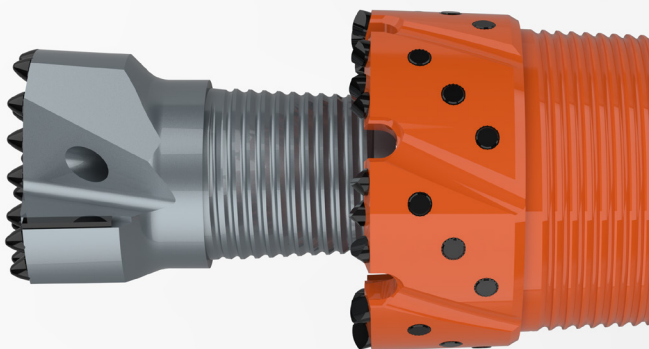
FLUSHING RING: Brings in the flushing and grouting media. (Special design by Eurodrill)

EJECTION BELL: Brings out the drillings cutting . Connection for casing

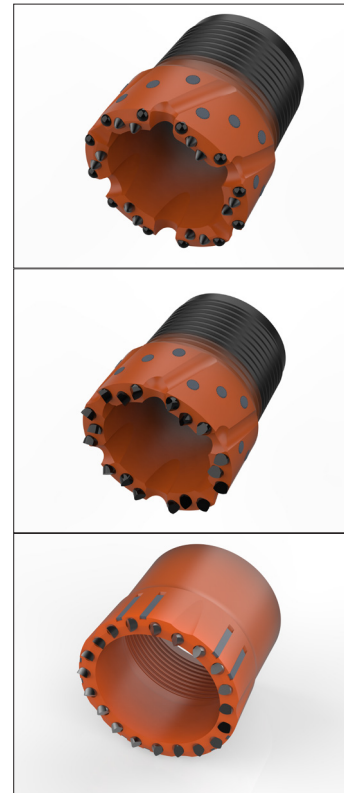
PLUG: To close the ejection holes while grouting.

BALANCING ROD: Connection for inner rod.

DRILL STRING COMPONENTS- DRILLING TOOLS



CASING BITS: Various designs are available pending on ground conditions.





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