

# TDI-BROOKS FERITECH VIBROCORER

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The TDI-Brooks Feritech FT550 Vibrocorer is a lightweight variable frequency high power vibrocorer. The FT550 can be used for cores of 1 to 6 meters deep (an up to 12-m with frame extension). The topside software informs the engineer of the information he needs to ensure efficient, successful and safe deployment and operation.

## OVERVIEW

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The system adjusts the vibrational frequency and effective thrust in real time. This ensures samples are collected with the minimum of disturbance of the ground but with the advantage of being able to turn up the penetration force when needed to ensure effective penetration and recovery of compacted samples with in the stratigraphy.

Force increases with an exponential curve against motor frequency, also amplitude is a theoretical constant. This is due to the operating frequency being much larger than the resonant frequency of the system. The amplitude above this range tends to the constant max value. You do experience a larger amplitude as the unit passes through various resonant frequencies of the system during start-up and run-down and frequency adjustment through resonant bands.

## PRODUCT HIGHLIGHTS

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- Variable frequency of 5 – 50Hz
- High power with up to 75kN thrust
- 1 – 6m modular construction (in 1m increments)
- Rapid mobilization with plug and play setup
- Change barrels with the frame laid horizontally or vertically
- 2:1 mechanical advantage on lifting wire aiding barrel extraction
- 300m depth rating
- Stable operation in up to 10 knot currents
- Consumables compatible with Feritech Global gravity and piston corers
- Frame hot dip galvanized to BS EN ISO 1461:2009

The subsea equipment is built to withstand the harsh offshore environment and unforgiving handling. The topside software informs the engineer of the information he needs to ensure efficient, successful and safe deployment and operation. Due to its simple-to-assemble modular construction, the system can be mobilized very quickly for cores of 1-6-m.

With its modular construction, the entire FT550 system and spares can easily be packed into a standard 20-foot ISO shipping container.

The FT550 has a proven track record of quickly penetrating consolidated sediments. The variable frequency has been used time and time again to acquire high quality core samples from stiff clays, compacted sands, to sites with chalk and gravel.

The topside controller shows the engineer the information he needs to ensure an efficient, successful and safe deployment and operation. The rugged top screen unit displaying and logging real time data from the system for the user, including:

- Penetration distance and rate
- Depth sensor
- Inclination
- Settlement into seabed
- Altitude from seabed
- Frequency and power

