

DrivenPile anchoring solution

Optimized installation of driven anchor piles for shared mooring systems

LET'S BUILD

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Design and installation of driven anchor piles

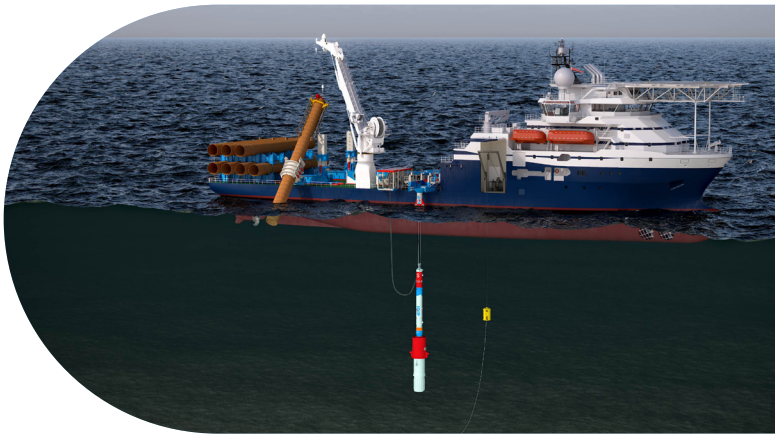
Driven anchor piles withstand vertical and horizontal loads from any direction, making them suitable for most soils and floating platform types. By supporting shared mooring systems—where multiple turbines connect to one pile—they cut seabed footprint and lower mooring costs.

IQIP is bringing decades of offshore foundation and installation experience to the emerging floating wind emerging sector. Building upon an extensive track record in offshore anchor installation and equipment innovation, IQIP is presenting its new series of anchoring solutions. The DrivenPile anchoring solution provides an optimized method for installing driven anchor piles in shared mooring configurations.

Advantages of IQIP's DrivenPile anchoring solution

- Scalable floating wind farm anchoring thanks to a proven equipment spread and industrialized approach which balances installation speed, cost, and risk.
- Fast Frame® subsea system supports, levels, and orients piles for efficient, accurate, and safe vertical installation, using built-in leveling systems and digital inclinometers for precision.
- Reliable, predictable installation across a wide range of soil types with impact driving by the Hydrohammer® S-series.
- PULSE® mitigates noise at source while reducing pile fatigue and enhancing penetration with each blow.

IQIP's DrivenPile anchor series addresses the needs of the emerging floating wind market. With a wide variety of soil conditions within project sites and requirements for uplift capacity, driven anchor piles present a scalable solution that builds upon an extensive track record.



Impact driving by Hydrohammer S-series with PULSE to ensure noise mitigation and drivability to target penetration.



Anchor pile with mooring chain tails pre-connected to padeyes, the other ends secured in a hang-off frame — ready for subsea mooring connection in a separate installation campaign.

Installation method & equipment

Floating offshore wind requires more anchors than traditional markets. Driven anchor piles enable shared mooring, where multiple turbines connect to one pile—cutting anchor numbers by up to 60%, reducing costs and minimizing seabed footprint.
By optimizing anchor design and installation efficiency, DrivenPile lowers project costs while ensuring safe operations and reduced underwater noise. The DrivenPile anchoring solution combines technical precision with operational efficiency to deliver scalable, sustainable anchoring for floating wind.

Unique features

- **Accurate positioning**
  IQIP's Fast Frame® supports, levels, and orients piles during early installation to ensure correct verticality and heading. Once the pile is self-stable, the sleeves open automatically, allowing padeyes, mooring chains, and hang-off frames to pass through during driving.
- **Reliable drivability across soil types**
  Installation is powered by the Hydrohammer® S-series. This is based on decades of field-hardened technology and delivers predictable performance across a wide range of soil conditions and strengths.
- **Reduced noise & pile fatigue**
  The PULSE® modular add-on to the Hydrohammer ensures more gradual energy transfer during driving, preserving the structural integrity of padeyes and mooring components, while reducing noise at the source and helping protect marine life.
- **Enhanced efficiency & safety**
  Wet storage and subsea equipment transfer between anchor locations minimize crane travel and splash-zone operations, improving safety and reducing installationtime.
- **Chain handling for shared anchor piles**
  Positioning padeyes below the seabed reduces bending moments, enabling smaller pile dimensions, and lowering fabrication costs. T&I is streamlined by securing a short chain tail to a hang-off frame, enabling fast subsea mooring in separate campaigns, boosting efficiency, and reducing offshore time.
- **More than just an anchoring method**
  IQIP's DrivenPile anchoring solution is a strategic enabler of scalable, sustainable offshore wind development.