

# Celebrating the best in the industry!

### 2025 Awards

### 4 February 2025 • London

#### **DYNAMIC POSITIONING AWARD 2025**

#### Furlong Sensing Ltd

#### **Furlong Unity**

The Furlong Unity Sensor from Furlong Sensing represents a significant leap forward in local position reference (LPR) systems, particularly within the offshore energy sector. This innovative technology not only showcases remarkable sophistication but also has a profound impact on the reliability, efficiency, and safety of dynamic positioning (DP) operations.

The Furlong Unity sensor transitions from traditional, target-based laser systems to a targetless approach, addressing longstanding challenges in DP technology. Traditional systems depend on a clear line-of-sight to retroreflective targets, which are often compromised by poor weather conditions or physical obstructions. By eliminating the need for these physical targets, the Furlong Unity sensor significantly enhances operational reliability, ensuring smooth DP operations even in challenging offshore environments. However, it also offers the unique option to use targets if required. This dual sensor capability allows operators to benefit from both targetless and target-based systems in a single solution, providing unparalleled flexibility and operational security.

A key feature of Furlong Unity is its integration of 3D lidar technology with camera augmentation, which dramatically improves situational awareness. Unlike traditional systems that provide only 2D environmental data, the Furlong Unity sensor offers a comprehensive 3D view of the operational area in real-time. This advanced visualization capability, including bird's eye view and mixed reality overlays, ensures operators have a more accurate and actionable understanding of their surroundings, critical for maintaining safety in dynamic offshore environments.

The Furlong Unity sensor excels in data processing and visualization, capturing and processing approximately 250,000 data points per second. Its intuitive visualizations make it a powerful tool for DP operations. The incorporation of a 6D inertial sensor and advanced algorithms, such as SLAM and ICP, further enhances its ability to track vessel positions accurately, even under challenging conditions. The sensor's innovative approach to GNSS integration—using GNSS data for initial mapping and long-term accuracy improvements—exemplifies its forward-thinking design. This hybrid approach ensures reliable operation even without GNSS signals, making the sensor a versatile and robust solution for the future of DP systems.

#### DP & Marine Assurance

#### Vessel Assurance Management System

DP & Marine's Assurance Management System platform is designed to simplify the often-complex processes associated with vessel assurance, enabling fleet managers to seamlessly monitor inspections, track vessel performance, and access critical data in one convenient location. Built with the end-user in mind, the system integrates cutting-edge technology, offering a secure, efficient, and user-friendly interface that enhances the overall management of vessel fleets.



# Celebrating the best in the industry!

4 February 2025 • London

#### <u>Brunvoll</u>

#### Advancing DP with BruCon DP Control Systems

Brunvoll has developed BruCon DP Control Systems, a new DP control system with a modern architecture, designed for cyber-security compliance, employing the latest control system algorithms and robustness. Backed by Brunvoll's decades of DP experience, BruCon DP Controls were developed in close cooperation with the company's manoeuvring and propulsion technology experts.

Brunvoll had the first successful DP2 delivery early in 2024 and the system has already experienced a solid acceptance in the market.

The Brunvoll DP technology forms the foundation for a wider use than just traditional DP and can now be found also in Brunvoll's autonomous functions. It is an important component in Brunvoll's Auto-Crossing for ferries and FishPilot for automated fishery operations.

The new platform connects to an in-house vessel simulator, specially designed to optimise performance, and reduce time spent on offshore sea trials and tuning.

The new system features an all-speed capability, making it more versatile and enabling new ways of DPoperation in the whole speed range.