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Cavotec Launches PowerAlign: A New Shore Power Solution Designed for Container Terminals

Cavotec, a global leader in electrification and automation solutions for ports and industrial applications, today announced the launch of *PowerAlign* – a new modular, mobile shore power solution designed specifically for container terminals.

Unveiled at **TOC Europe 2025 in Rotterdam**, *PowerAlign* is engineered to deliver safe, efficient, and reliable shore power connections – all while maintaining the operational flexibility container ports require. The system

offers up to **140m of coverage from a single unit**, with the option to extend reach by adding additional modules.

“PowerAlign is the result of our deep collaboration with port operators, shipowners, and terminal equipment manufacturers,” says David Pagels, CEO of Cavotec. “It brings a flexible, compact, and future-ready shore power solution to container ports that are under increasing pressure to reduce emissions without compromising performance.”

Purpose-built for today's terminals

Unlike fixed installations that can limit crane and cargo handling operations, *PowerAlign* keeps the quay clear thanks to its **low-profile socket box** and **compact footprint of less than 3.5m²**. The system's **enclosed cable reel**, mounted at the quay edge, ensures extended cable life and minimal maintenance – a major advantage in space-constrained and high-traffic terminals.

PowerAlign key features:

- **Compact & unobtrusive:** Occupies less than 3.5m² and integrates with existing quay layouts
- **Extended reach:** Covers up to 140m per unit, expandable with additional modules
- **Safe connections:** Complies with IEC 80005-1 and supports up to 16kA/s
- **Modular & adaptable:** Tracks install on the quay face or deck
- **Optimised cable handling:** Protected reels extend cable life and reduce downtime

Whether implemented on **new or existing berths**, *PowerAlign* helps container ports meet regulatory and environmental targets while maintaining productivity and vessel turnaround times.

Learn more at TOC Europe

Cavotec representatives will be available at **stand J40** throughout TOC Europe to share insights about *PowerAlign* and how it supports greener, more efficient port operations.

For more information, visit www.cavotec.com.



[Watch video on YouTube here](#)

Cavotec is a leading engineering company with 50 years of heritage in innovation, designing and delivering advanced connection and electrification solutions that drive the decarbonisation of ports and industrial applications. With five decades of experience, our systems ensure safe, efficient, and sustainable operations for a diverse range of customers and applications worldwide.

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