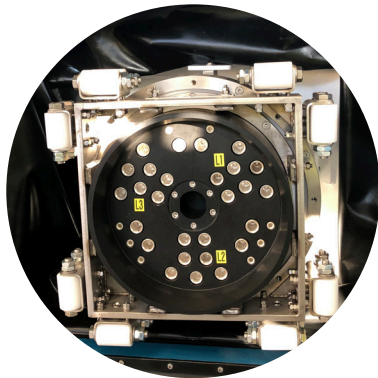
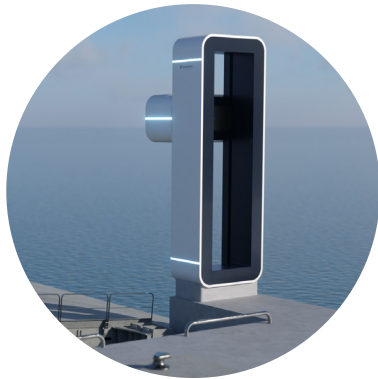
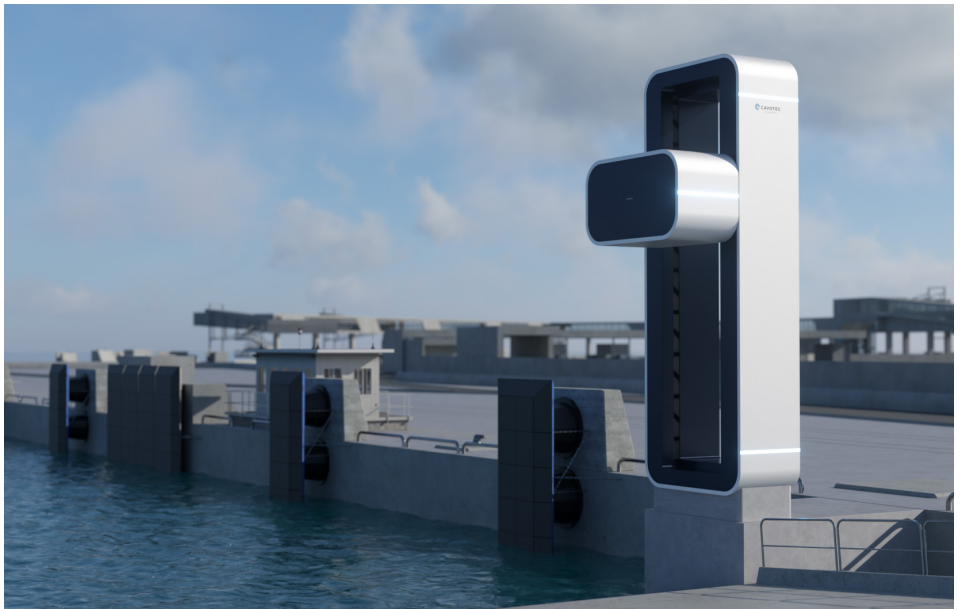


## PowerAdaptNxG



**Cavotec is a leading cleantech company that designs and delivers connection and electrification solutions to enable the decarbonization of ports and industrial applications.**

**Cavotec pioneered ShorePower technology in the 80s. We design, manufacture and deliver innovative turnkey ShorePower solutions that allow our customers to take charge of their own futures.**

### Overview

**PowerAdaptNxG** is a counterweight solution providing fast connection and disconnection for e-ferris to maximize the charging capacity during off- and on-loading the ferry.

**PowerAdaptNxG** is featured by latest Cavotec APS (Automatic Plug-in System) technology, an evolved, modern and innovative aesthetic that has been developed with public environments and urban contexts in mind.

The system is using Cavotec APS (Automatic Plug-in System) technology. The system is composed by two main sub-systems, one installed on ship side, the other on shore side. The vessel installation is featured by a fix funnel for power connection and its shipboard control equipment. The shore installation is featured by a fix structure, holding cablings, control equipment and counterweight system and by a mobile unit: the APS Box.

The APS Box moves vertically and includes the APS Arm which extends horizontally to establish the connection with the on-board funnel.

### High precision

**PowerAdaptNxG** uses ultrasonic/radio, laser, RFID, inclination sensor technologies to provide redundant positioning systems for locating, following and connecting to the charging point on the vessel. Once connected the system continues to compensate vessel movements to avoid interruption due to weather or other external disturbances.

### Benefits

- Quick and reliable connection with the vessel
- Automatic and safe charging
- Zero-Emission operations
- Maximized charging time
- Compatibility with MoorMaster™ automated mooring solution

## Features

- AC and DC options
- Up to 11kV supply voltage
- Designed for Front-Charging as well as Side-Charging with MoorMaster
- Left- and Right-hand version
- High precision
- Fast connection and disconnection cycle in less than 60s
- Cavotec touch panel or remote control available
- Status LED lighting that illustrates machine status
- Up to 7m tidal variation compensation
- Camera to see the connection in real time from vessel HMI
- Remote access for maintenance / service
- Cavotec Connect

## Technical features

APS box position: left or right position available

### Operations

APS Box vertical stroke (tidal compensation)	2000mm, 4000mm or 7000mm
APS Box active sideways compensation	±200mm
APS Box - Funnel connection distance	200 – 600mm
APS Box vertical speed while connected	up to 300 mm/s
APS Arm radial compensation	±150mm

### Dimensions

Shore module height	4350mm, 6350mm or 9350mm
Shore module width incl. APS box	3100mm
Shore module depth	3000mm
Footprint	1550 x 3000mm
APS Arm centre at low tide	1375mm
APS Arm centre at high tide	3375mm, 5375mm or 8375mm

### Performance

Max charge in LV both DC and AC	5MW
Max charge at 11kV	12MW
For higher charging power during intermittent duty, please contact Cavotec Sales department.	

Please contact your local Cavotec Sales Office for further information at [cavotec.com](http://cavotec.com). Disclaimer: specifications are subject to change without notice.