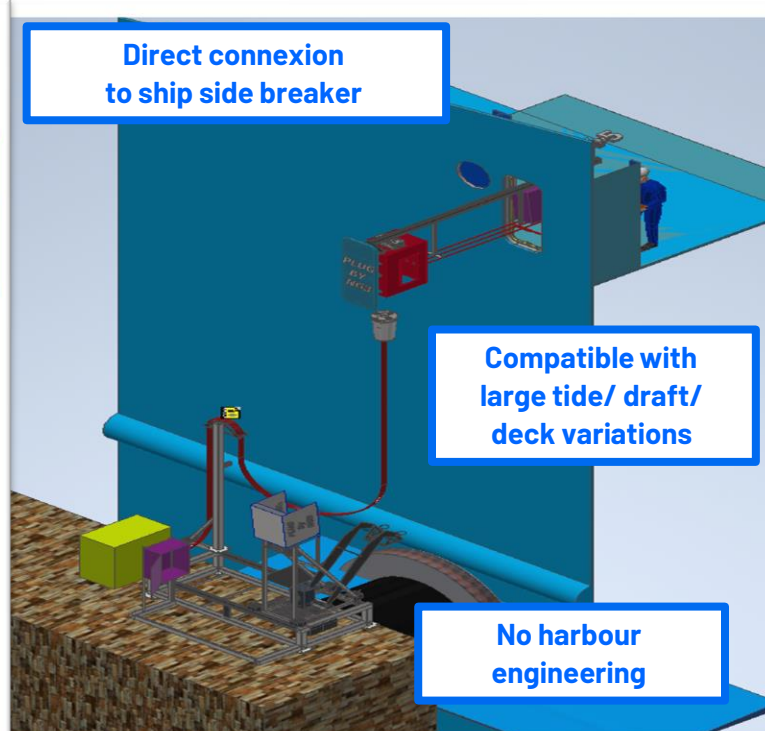
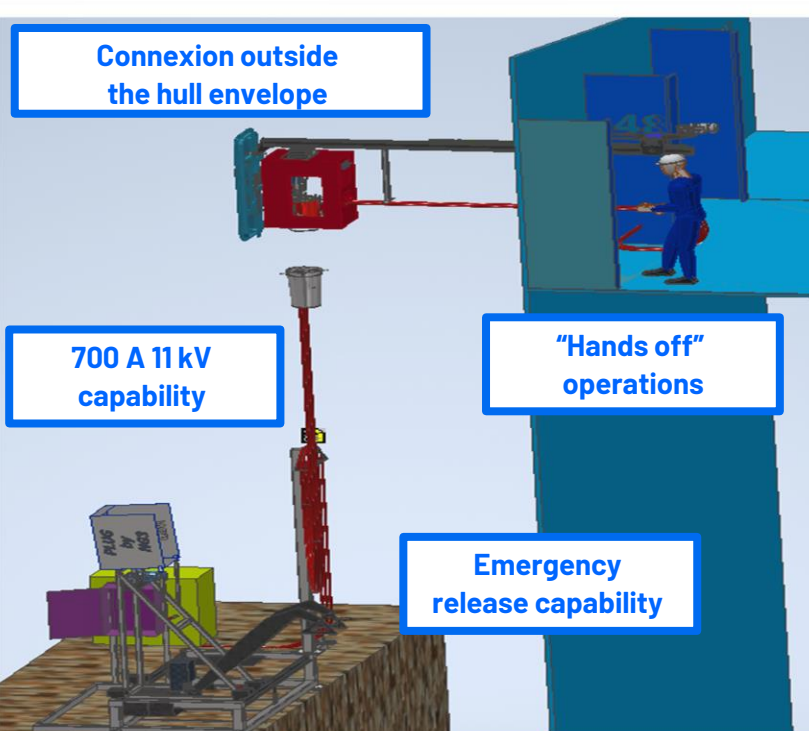


# PLUG : the world's first "hands off" solution to connect vessels to charging power!



## Main features and benefits

- **Proven** PLUG technology, more than **30 000** connexions since 2011!!
- Based on **simple, sound and reliable** mechanical effects
- Two configurations qualified for either **11kVolt / 700 Amp**, either **1kVolt / 2000 Amp**
- **Higher Voltage / Ampèrage** available as an option
- Compliant with **80 005 IEC** functional requirements and **CE machinery directive and EUROCODE**
- **"Hands off"** operations can be fully automated
- **Very limited on-board weight and foot print** (can be installed under RoPax vessels car ramp)
- **Shore power within minutes after the vessel is docked**
- **Compatible with large draft/tide variations**
- Built in **Emergency Release** Capability
- **Remote trouble shooting** through a quay side internet interface
- **Low weight quay side structure negligible harbour engineering**
- **Environmentally friendly**, (optimizes use of steel and copper resources...)
- **Low Maintenance**, easily performed by crew/base personnel
- **Compact and compatible with retrofit** on existing vessels within a few days
- Can be **winterized**
- **Already on operations** on 6 large hybrid propulsion vessels!





Compliant with CE machinery directive and Eurocode

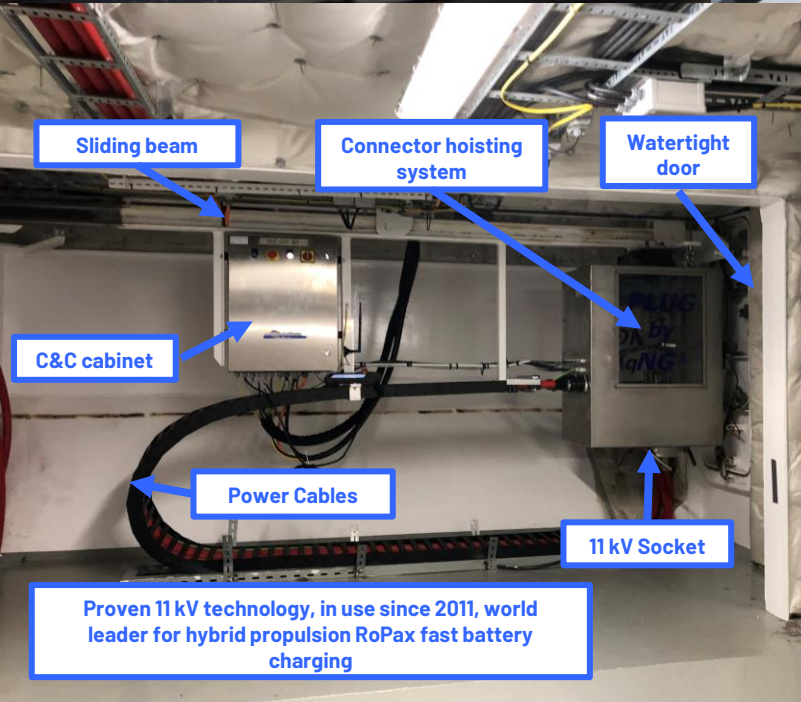
Self adjustment with the vessel draft and tide variations



Installation within a frame space

Fully watertight at sea

Easy installation both for newbuilt or retrofit



Sliding beam

Connector hoisting system

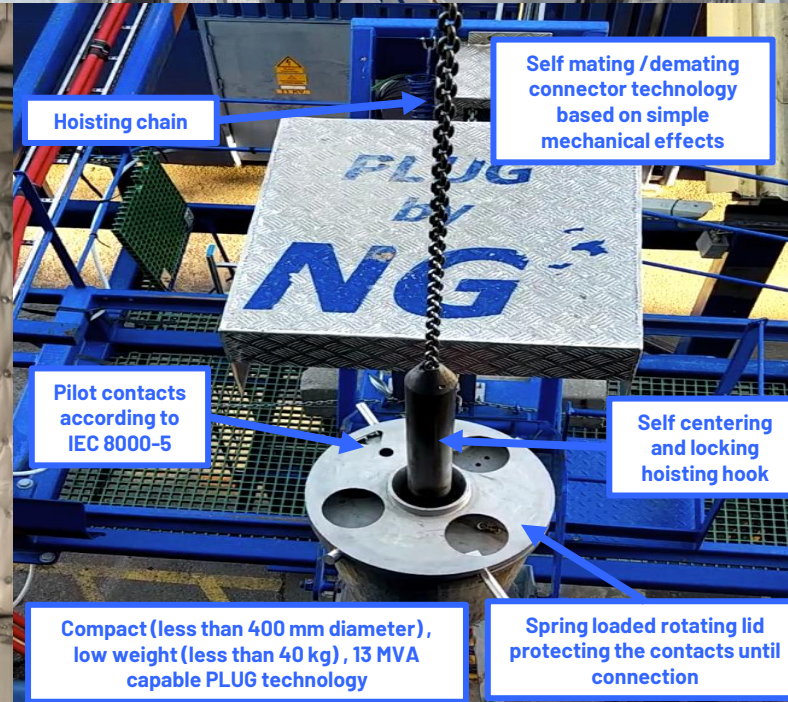
Watertight door

C&C cabinet

Power Cables

11 kV Socket

Proven 11 kV technology, in use since 2011, world leader for hybrid propulsion RoPax fast battery charging



Hoisting chain

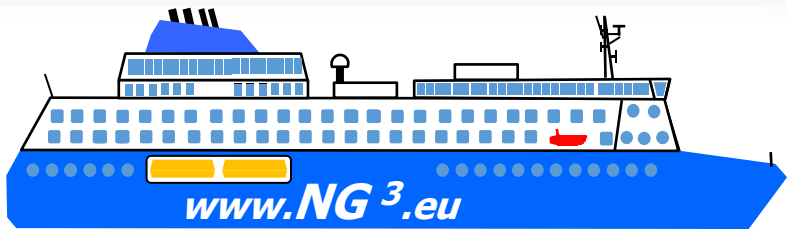
Self mating / demating connector technology based on simple mechanical effects

Pilot contacts according to IEC 8000-5

Self centering and locking hoisting hook

Compact (less than 400 mm diameter), low weight (less than 40 kg), 13 MVA capable PLUG technology

Spring loaded rotating lid protecting the contacts until connection



[www.NG3.eu](http://www.NG3.eu)  
Shore power you can afford!

Contact : [sales@ng3.eu](mailto:sales@ng3.eu)

See PLUG in action on you tube :



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