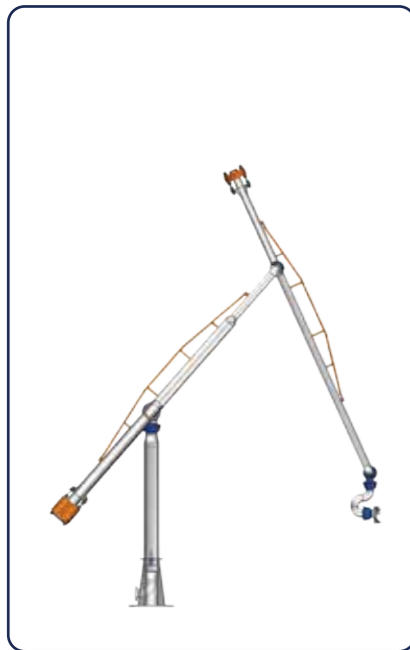


MARINE LOADING ARM



FB MLA
(Fully Balanced Marine Loading Arm)

- Simplest structure, light weight, and cost saving
- Recommend for small size connection from 3inch to 8inch
- Mostly manual operated and hydraulic is also available

Diameter: DN150 - DN200
Tanker size: 1,000 - 30,000 DWT
Operation: Manual, Hydraulic



RC MLA
(Rotary Counterweight Marine Loading Arm)

- Strongest structure, a separated supporting structure, no stress on liquid pipeline to minimize leakage risk
- Piggy type is available for vapor return
- Recommend for all size connection, especially for large size
- Cryogenic liquid, high pressure gas, corrosive media transfer applicable.
- Meet the demands of all the most demanding working environments

Diameter: DN150 - DN500
Tanker size: 3,000 - 500,000 DWT
Operation: Manual, Hydraulic



RIGID MLA
(Rigid Pantograph Marine Loading arm)

- Slim structure, pipeline self-support with light weight
- Recommend for middle size vessel tanker
- Narrow space required between arm to arm

Diameter: DN150 - DN300
Tanker size: 3,000 - 300,000 DWT
Operation: Manual, Hydraulic



Where Design Innovation Meets Precise Manufacturing

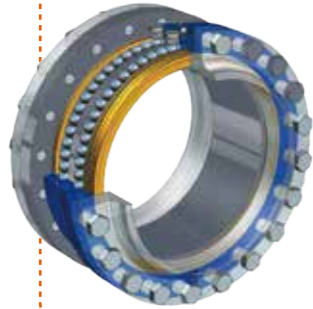


Our Products Maintain Exceptional Quality and Efficient Delivery Times Due to Our Limited Reliance on Outsourcing

Factory Manufacturing Ability Highlights:

- Massive production capacity, assembling 30 marine loading arms simultaneously.
- Cutting-edge precision machining center, up to 24-inch processing.
- Sandblasting and painting workshop (30m*10m), and paint baking room.
- In-house seal workshop, physical and chemical testing lab. All seals can be delivered in 1 week.
- Plate rolling up to 100mm, five 35-ton overhead cranes.
- All hydraulic and electrical components from top global suppliers.
- Entire ERC system, including valve bodies, produced in-house.
- Deep cryogenic treatment pool for cryogenic swivel joints ensure impeccable long-time service.
- LNG marine loading arms deliverable within 6 months.

Swivel Joint



Achieving flexible rotation under high loads, our unique low-temperature swivel joint design ensures leak-free and non-sticking performance even in ultra-cold conditions.

You can easily inspect seals without the need for disassembly and replace them conveniently without requiring a crane.

Utilizing a specialized surface treatment method, we enhance the surface hardness of the internal stainless steel raceway by fourfold, significantly extending the service life of the swivel joint and effectively reducing the risk of leakage.

Furthermore, our swivel joint has successfully completed a comprehensive test of 400,000 uninterrupted rotations at low temperatures (-196°C). This test was conducted under the meticulous supervision and verification of authoritative third parties.

ERS

CCLPEC Emergency Release System (ERS) is composed of double ball valves (DBV) and a powered emergency release coupler (PERC). Characterized by a four-bar linkage mechanism, this Double Hydromechanical Interlocking system can ensure safety and reliability, it ensures the simultaneous close of the upper and lower ball valves, and PERC action only after both valves fully closed.

Fully compliant with the latest version of OCIMF and ISO16904 standards. Valves in accordance with API 607-2016 standard and certified by Lloyd for fire protection.

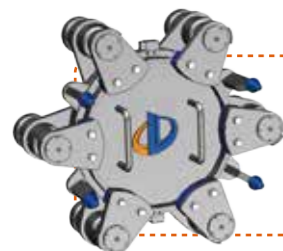
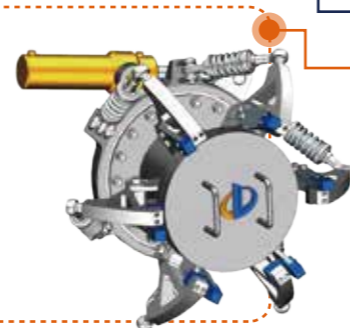
Self-owned seals workshop empowers us to offer a diverse range of high-quality customized seals, catering to various usage environments and requirements. We maintain superior control over the production process, reducing costs and shortening delivery time.



Hydraulic QCDC

The clamps of CCLPEC hydraulic quick connection and disconnection coupler (HQDC) process force-evenly and simultaneously due to the one hydraulic cylinder design. In case of power failure, the clamps will be keeping locked by reliable spring locking device, and can be released with simple manual tools.

With unique patented design our cryogenic type QCDC can keep its surface Frost-Free during a multi-day loading process, after then there is no need to use hot water for disconnection.



Manual QCDC

Manual quick connection and disconnection coupler (MQDC) is very convenient for operation, each claw can be individually tighten or loosen with lever. The guide bars and bumper blocks on flange face will help the align process and prevent sparks caused by collision.

Cryogenic Marine Loading Arm

CCLPEC brings exceptional LNG marine loading arm with integrate modern technology and innovative design, offering multiple advantages:

- Modern manufacturing processes ensure the equipment's stability and durability in challenging operational environments.
- Optimized structural design enhances operational efficiency and fluidity.
- Advanced monitoring and control systems oversee the operation and loading process, ensuring the safety of operators, terminals, and equipment.

With outstanding performance and reliable quality, CCLPEC cryogenic marine loading arms provide great convenience for your LNG terminal.



Scan to find MLA video

