

# AMP Reference

## Container Vessel



MAERSK: 9,000TEU / 1,700TEU  
 C C: 23,000TEU/15,000TEU/9,200TEU/5,500TEU/2,100TEU  
 OOCL: 13,200TEU/ 8,888TEU/ 8,063TEU/ 4,578TEU  
 Hapag-Lloyd: 17,000TEU  
 EVERGREEN: 24,000TEU/16,500TEU/ 3,000TEU /2,400TEU /1,900TEU  
 YANG MING: 15,500TEU/ 14,220TEU /6,589TEU /4,662TEU  
 WAN HAI: 16,000TEU/ 8,700TEU  
 PIL: 9,000TEU / 8,000TEU  
 X-PRESS: 11,000TEU/ 7,000TEU/ 1,250TEU/ 950TEU  
 TS LINE: 14,000TEU/ 4,300TEU  
 PETER DÖ HLE: 14,000TEU/ 8,000TEU/ 2,900TEU  
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## Ro-Ro & PCTC



HÖ EGH AUTOLINERS: 9,100CEU PCTC  
 GRIMALDI: 9,000CEU PCTC  
 Gram Car Carriers: 7,000CEU PCTC/ 4,900CEU PCTC  
 ZODIAC: 7,000CEU PCTC  
 EPS: 5,500CEU PCTC  
 FINNLINES: 5,100LM Ro-Pax Vessel  
 MOBY: 2,500 Passengers/ 3,800LM Ro-Ro Vesse  
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CSL: 11,000DWT Limestone TSV  
 SHANGHAI MERCHANTS MINGHUA: 58,000DWT Bulk Carrier  
 TIANJIN GUONENG SHIPPING: 76,000DWT/ 45,000DWT /33,000DWT Bulk Carrier  
 NINGBO MARINE: 57,000DWT Bulk Carrier  
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# Global Service



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Headquarter and Subsidiaries

Global Service Contracted Partners

International Ship Engineering Service Association (ISES) Cooperation Partners



# AMP Alternative Maritime Power

Your Trusted Global Turnkey Solution Partner.  
 From Concept to Completion,  
 Covering Design, Production, Installation & Lifecycle Maintenance.



SaierNico | SaierNico Electric Engineering Ltd.  
 You Sail, We Serve!



# Introduction

## Alternative Maritime Power

SaierNico, founded in 1994, is an innovative, internationally active and reliable manufacturer for marine Electric distribution system and Automation system, products including:

- Marine Switchboards (High Voltage & Low Voltage).
- Automation Systems & Control Console.
- Alternative Maritime Power.
- Energy Saving System (Sea water pumps etc.).
- Green Marine Solution System.

Alternative Maritime Power (AMP), also known as cold ironing, Onshore Power Supply (OPS), enable the connection of ships in port to onshore power supplies, ensures not only clean air to berth but also a noise-free environment on ship, help to meet the requirements set by EEDI, EEXI and CII regulations.

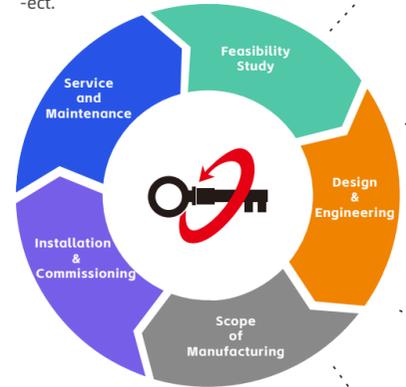
Our comprehensive scope of manufacturing for AMP encompasses Cable Reel, Socket Boxes, High Voltage Shore Connection Switchboard, Shore Receiving Panel etc. From Concept to Completion, Covering Design, Production, Installation and Lifecycle Maintenance.



## AMP Turnkey Solutions



- IEC / IEEE 80005-1: 2022  
- IEC 62613-2: 2016  
- IEC 62271-200: 2021  
- ect.



### ① Feasibility Study

· On-site inspection · Feasibility Study · Tailor Made Solution

### ② Design & Engineering

· Electrical System Analysis  
· Engineering and Submit to class approval  
· Class approval comments close

### ③ Scope of Manufacturing

· AMP Cable Reel · Weather Proof Housing  
· HV/LV Socket Box · AMP Container  
· High Voltage Shore Connection Switchboard  
· HV/LV Shore Receiving Panel  
· AMP Control Panel

### ④ Installation & Commissioning

· Installation at sea · Installation in Dry docking shipyard  
· Seaman Book, Schengen Visa, US Visa, APEC Card  
· Power Bank(500/1000kW) for testing · Qualified personal

### ⑤ Service and Maintenance

· Global Service Network · First time plug-in assistance  
· Regular inspections and maintenance · Spare Parts Supply

# AMP Cable Reel

## AMP Cable Reel & Weather Proof Housing



AMP Cable Reel

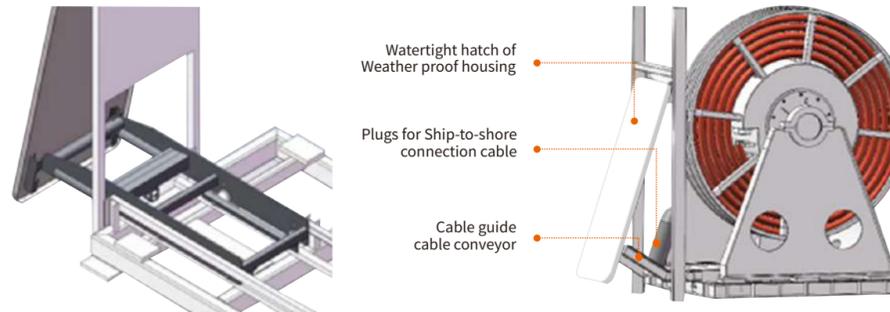


Weather Proof Housing

- Auto tension control both by Magnetic coupling and Frequency converter.
- Safety mechanism: two independent brake mechanism.
- Gear transmission instead of chain.
- Cable speed/turns detector.
- Weather proof housing and human operation free principle.
- Reliable design and test:  
Slip ring CNAS type tested.  
Cable Reel type approved by ABS and CCS, approved by DNV, ABS, CCS, LR, NK, etc. IACS classification.

Human free operation principle

Cable guide/conveyor coupling with watertight hatch, when pay-out or pay-in the ship-to-shore connection cable, no need human's additional assistance, the cable could pay-out or pay-in automatically.

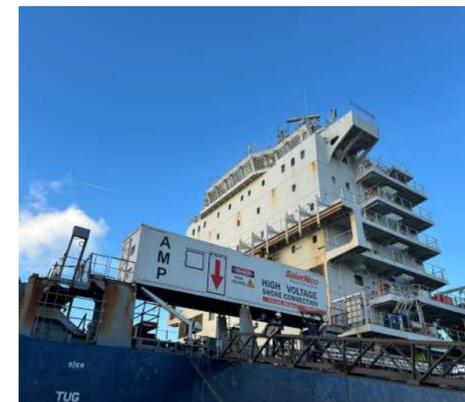


## AMP Container

### Fully Integrated Containerized Solutions.

The system is pre-assembled and fully integrated, including AMP Cable Reel, High Voltage Shore Connection Switchboard, Step-down transformer etc. all necessary equipment, or could customized to meet client's special requirement.

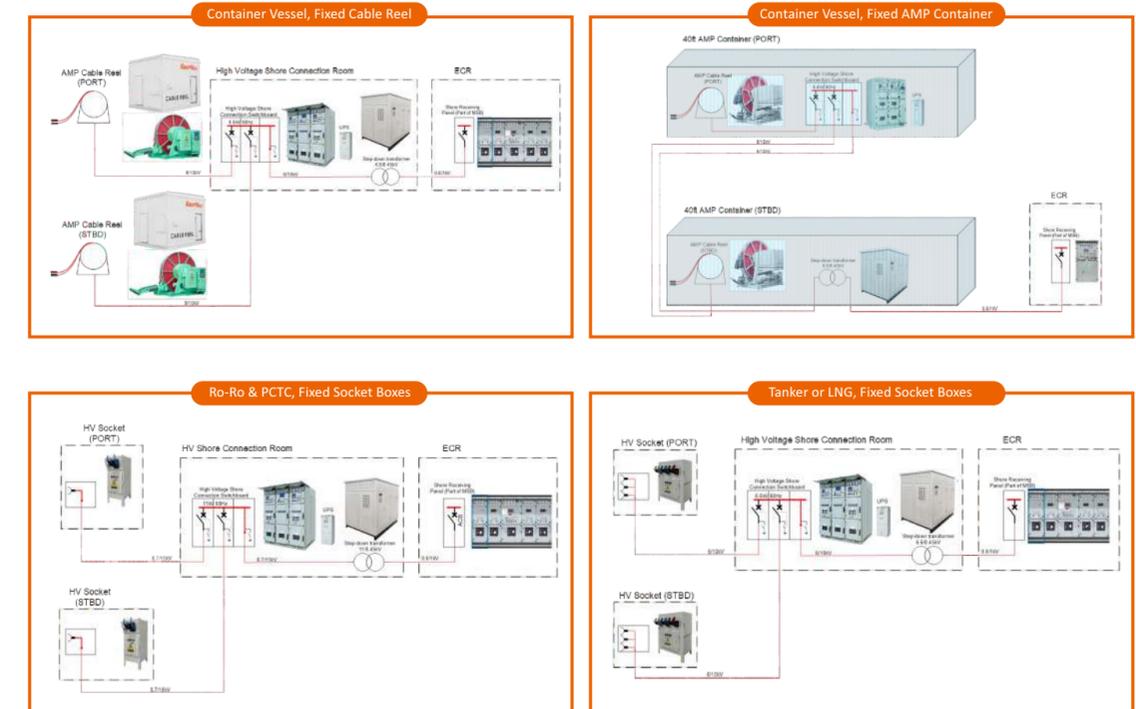
- Dry Cargo Type, Stainless Steel Type or Reefer Container Type.
- ISO standard shipping containers with CSC certification.
- Fully insulated with heater, dehumidifier and cooling fans for harsh environments.
- Fire detection and suppression system.
- Safety design concept to ensure the safety of operators.
- Factory tested prior to shipment, Simplified on-site installation and commissioning.
- Connection sockets for servicing.



# AMP Solution



## Solution concept Diagram:



## Installation at Sea or in Dry-docking shipyard:

