



Certificate no.:
TAS000045U

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Emergency Towing Arrangement**

with type designation(s)
YT1000-F, YT1000-A

issued to

TaiZhou City Zhongyuan Shipping Machinery Manufacturing Co.,Ltd
Jiangyan, China

is found to comply with

DNV rules for classification – Ships
IMO/MSC Resolution 35 (63)

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Hamburg** on **2024-01-17**

This Certificate is valid until **2029-01-16**.

for **DNV**

DNV local unit: **Nantong**

Approval Engineer: **Stefan Heuer**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Emergency towing arrangement type YT1000-F and YT1000-A

Application/Limitation

Emergency towing arrangement (ETA) for tankers
- of less than 50.000 tdw

Type	Position	SWL
YT1000-F	FWD	102t (1000kN)
YT1000-A	AFT	102t (1000kN)

For installation on DNV classed vessels:

- The manufacturer is required to have a DNV surveyor witness all important production and tests as required.
- Non-destructive testing is to be carried out to the attending surveyor's satisfaction.
- All welding is to be carried out by approved welders and according to approved welding procedures.

Certification requirements [DNV-RU-SHIP, Pt.5 Ch.5 Sec.1 Table 7]

Item	Material	Product
Emergency towing strongpoints	MD (manufacturer)	DNV PC
Emergency towing fairleads	MD (manufacturer)	DNV PC

MD = material declaration

PC = product certificate

The connection/fixation to the deck structure and support of the components to the ship's structure are not included in this type approval and to be covered by separate approval for each installation.

Type Approval documentation

Tests carried out

Type tests with report no. ZY240117001 and ZY240117002 witnessed by DNV dated 2024-01-17.

Marking of product

The load bearing components are to be marked with the SWL, manufacturers name or trademark and type number identification.

Periodical assessment

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE