

VOLTRA

BATTERY ELECTRIC TUG



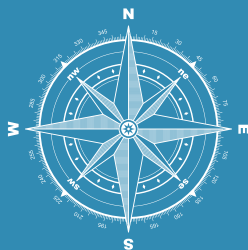
MED MARINE

- ✦ Med Marine is a leading Turkish shipbuilder and tugboat operator. Ereğli Shipyard is one of the largest shipyards in Turkey based on some 180.000 m² with more than 30.000 m² indoor areas to build state-of-the-art tugboats, workboats, offshore vessels and coated/Stainless Steel (STST) IMO II type chemical/oil tankers, for its own operations and clients around the world.
- ✦ Med Marine has a very wide selection of state-of-the-art tug boat design portfolio and the shipyard is constantly being improved with advanced production standards by keeping up with latest health, safety and environmental regulations.
- ✦ Med Marine has successfully completed the construction and delivery of 200+ projects, including tugboats, chemical/oil tankers, mooring and pilot boats.
- ✦ Ereğli Shipyard, owned by Med Marine Group, has received certifications for “Shipyard Security Compliance” and “Shipyard Production Compliance” certificates to build naval ships for Turkish Military and NATO.



WHY VOLTRA?

- ✦ Investing in environmentally friendly practices and technologies is crucial for preserving our planet's resources to ensure a sustainable future.
- ✦ By utilizing electric tugs, marine industry can achieve zero emissions, contributing to a healthier environment.
- ✦ The use of electric machinery and equipment helps reduce noise pollution in ports and creating a more peaceful environment.
- ✦ Electric vessels are able to operate without the need for fuel, resulting in cost savings for owners.
- ✦ Switching to VoltRA Battery Electric Tug can significantly lower operational costs for businesses.



VOLTRA

BATTERY ELECTRIC TUG

2100



GENERAL PARTICULARS

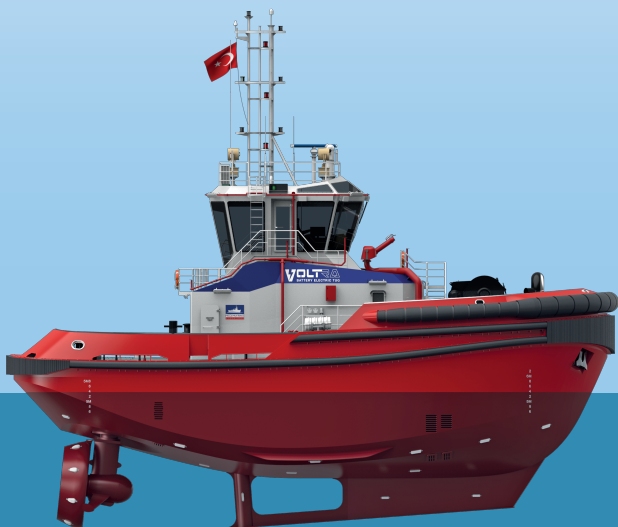
LENGTH OVERALL	21.4 m
BEAM, MOULDED	11.3 m
DEPTH, MOULDED	4.0 m
DRAFT, NAVIGATIONAL	4.6 m
BOLLARD PULL (AHEAD)	50 TONNES
PROPULSIVE POWER	APPROX. 2x1400 ekW
INTERNATIONAL TONNAGE	< 300 GT
COMPLEMENT	3-6 CREW

CAPACITIES

BATTERY BANKS, NOMINAL	APPROX. 2900 kWh
FUEL OIL	30 m ³
FRESH WATER	10 m ³

VOLTRA 2300

BATTERY ELECTRIC TUG



GENERAL PARTICULARS

LENGTH OVERALL	23.45 m
BEAM, MOULDED	11.9 m
DEPTH, MOULDED	4.6 m
DRAFT, NAVIGATIONAL	5.7 m
BOLLARD PULL (AHEAD)	70 TONNES
PROPULSIVE POWER	APPROX. 2x2100 ekW
INTERNATIONAL TONNAGE	< 350 GT
COMPLEMENT	4-6 CREW
SPEED APPROX	11.5 KNOTS

CAPACITIES

BATTERY BANKS, NOMINAL	APPROX. 3600 kWh
FUEL OIL	40 m ³
FRESH WATER	10 m ³

VOLTRA

BATTERY ELECTRIC TUG

2500



GENERAL PARTICULARS

LENGTH OVERALL	25.45 m
BEAM, MOULDED	11.95 m
DEPTH, MOULDED	4.9 m
DRAFT, NAVIGATIONAL	5.83 m
BOLLARD PULL (AHEAD)	80 TONNES
PROPULSIVE POWER	APPROX. 2x2300 ekW
INTERNATIONAL TONNAGE	< 400 GT
COMPLEMENT	4-6 CREW
SPEED APPROX	12.0 KNOTS

CAPACITIES

BATTERY BANKS, NOMINAL	APPROX. 4000 kWh
FUEL OIL	50 m ³
FRESH WATER	10 m ³

VOLTRA

BATTERY ELECTRIC TUG

2800



GENERAL PARTICULARS

LENGTH OVERALL	28.45 m
BEAM, MOULDED	12.95 m
DEPTH, MOULDED	5.4 m
DRAFT, NAVIGATIONAL	6.2 m
BOLLARD PULL (AHEAD)	85 TONNES
PROPULSIVE POWER	APPROX. 2x2525 ekW
INTERNATIONAL TONNAGE	< 500 GT
COMPLEMENT	6-8 CREW
SPEED APPROX	12.0 KNOTS

CAPACITIES

BATTERY BANKS, NOMINAL	APPROX. 4500 kWh
FUEL OIL	70 m ³
FRESH WATER	15 m ³

VOLTRA 3000

BATTERY ELECTRIC TUG



GENERAL PARTICULARS

LENGTH OVERALL	30.3 m
BEAM, MOULDED	13.3 m
DEPTH, MOULDED	5.45 m
DRAFT, NAVIGATIONAL	6.2 m
BOLLARD PULL (AHEAD)	90 TONNES
PROPULSIVE POWER	APPROX. 2x2525 ekW
INTERNATIONAL TONNAGE	< 500 GT
COMPLEMENT	6-8 CREW
SPEED APPROX	12.5 KNOTS

CAPACITIES

BATTERY BANKS, NOMINAL	APPROX. 5000 kWh
FUEL OIL	100 m ³
FRESH WATER	20 m ³



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THE FUTURE**