

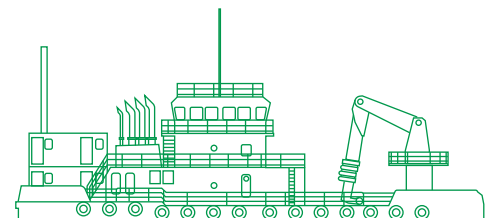


مبارك البحرية Mubarak Marine



Mubarak Multicat Diesel electric propulsion tug

At 490 tonnes, the Mubarak Multicat is a modern, purpose-built, UAE registered tug with a draft of 3 metres, perfect for the shallow waters of the Gulf. The vessel is ideally suited for anchor handling, towage, surveying, and as an AtoN and diving support vessel. A living container can be added to accommodate a total of up to 28 personnel.



Registration

Year of build	2017
Builder	Dubai Shipbuilding & Engineering LLC
Port of registry	Dubai
Flag	UAE
IMO number	9792670
Class	Bureau Veritas
Class ID	27547U
Owner	Mubarak Marine LLC

Dimensions

Length overall	34.5 m
Breadth moulded	13 m
Depth moulded	3.8 m
Fully loaded draft	4.9 m
Lowest operating draft	2.3 m (5 days endurance)

Machinery/propulsion

Electric motor driven propulsion	CPP - Mekanord
Gearbox	2x Mekanord Type 450HS
Propellers	2x Mekanord Type CP20-R
Steering	Wills Ridley, 2x 1050 Kg-m Torque
Propulsion motor	2x Marelli Motori @1000 kW each, total 2000 kW
Main generators	3x Caterpillar C32 @940 ekW each, total 2820 ekW
Harbour generator	Caterpillar CAT C9 @250 ekW
Bow thruster	Thrustmaster HPU Motor 300 HP/250 kW
Stern thruster	Thrustmaster HPU Motor 1300 HP/250 kW
Dynamic positioning	DYNAPOS SAM
Air conditioning system	Chilled water system with capacity for 36 people
MDG 1/2/3	940 kW/940 kW/940 kW
AE	250 kW

Tonnage

GRT	490
NRT	147
Light ship displacement	720 mt
Summer deadweight	320 mt
Summer displacement	1056 mt

Firefighting/safety equipment

Life saving equipment	As per Solas
Fire fighting equipment	As per Solas

Performance

Service speed	10 knots @ 100% MCR
Bollard pull	32 t
Clear deck space	192 m ² with accommodation container 238 m ² without accommodation container
Deck strength	10 mt/m ² (FR.28 to AFT), 5 mt/m ² (FR.28 to FWD)

Sewage treatment plant

Maker	JETS Norway
Model	Ecomotive 3.33 x 1 Unit
Designed hydraulic loading	5.55 m ³ /day
Designed original loading	3.3 kg/day BOD

Accommodation

2-single cabin for Captain and Chief Engineer	2 persons
2x 4-men cabin	8 persons
3x 2-men cabin	6 persons
6x 2-men containerised cabins	12 persons
Total	28 persons

Navigation/communication equipment

DP joystick capable of holding station
Radar
DGPS
AIS
Magnetic compass
Heading repeater
Autopilot
BNWAS
Speed log
Echo sounder
VHF radio telephone
Wind speed and direction indicator
GMDSS A3

Capacities

Fuel oil	170 m ³
Fresh water	88 m ³
Fresh water maker	SLCE, 1x 11 m ³ /day (Gulf water)
Dry provision	5 m ²
Freezer	3.6 m ³ volume
Chiller	8.8 m ³ volume

Deck equipment

Deck crane

Make	Heila
Type	Knuckle Telescopic Boom Crane

SWL

Fixed main hook	64 mt @ 8 m radius
Auxiliary hook	10 mt with 20 m reach of 25 mm diameter wire rope
Maximum radius	20 m

Forward facing anchor handling winch

Make	C-Nautical
Nominal pull	143 t @first layer
Brake holding	173 t @first layer
Wire rope	52 mm diameter x 150 m
Monitoring	Load and length monitoring

Aft facing towing winch with spooling

Make	C-Nautical
Nominal pull	41 t @first layer
Brake holding	87 t @first layer
Wire rope	38 mm diameter x 500 m
Monitoring	Load and length monitoring

Four point mooring winch with spooling

Make	C-Nautical
Nominal pull	10 t @first layer
Brake holding	30 t @first layer
Wire rope	25 mm diameter x 250 m
Warping head	1 piece each winch

Aft tow pin

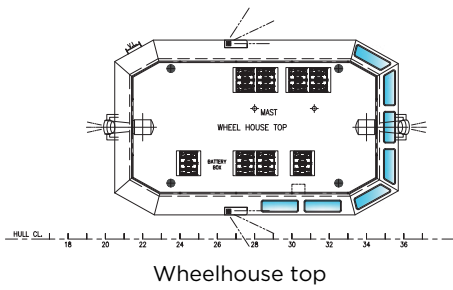
Make	C-Nautical
Type	Hydraulically operated angular bollard type
Rated load	75 t

Forward shark jaw and tow pin

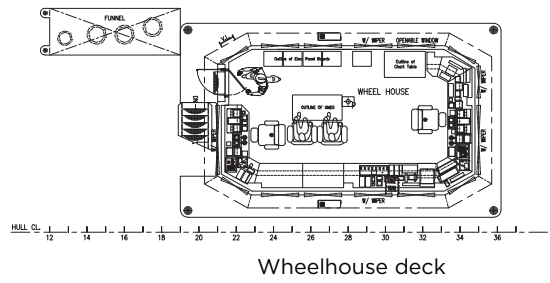
Make	C-Nautical
Type	Hydraulically operated lock jaw and bollard type tow pin
Rated load	140 t

Forward roller

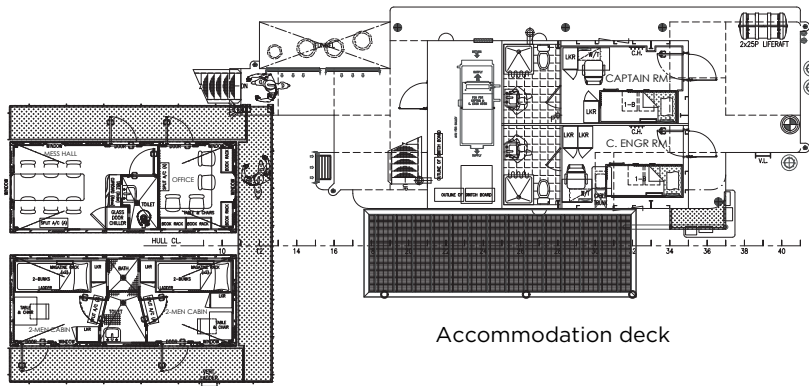
Size	950 mm OD x 5 m length
SWL	141 mt
Spud well	2 aft and 2 forward
Spud	1 aft starboard and 1 forward port
Diameter and length	450 mm diameter x 17 m length
Deployment	14 m
Power supply on deck	700 kW



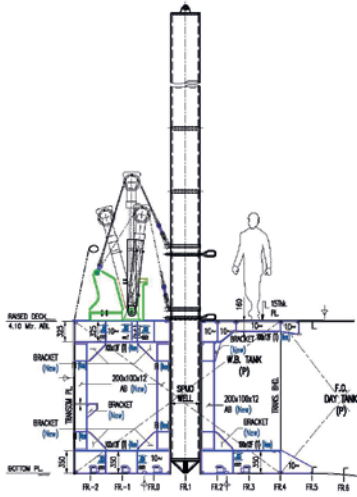
Wheelhouse top



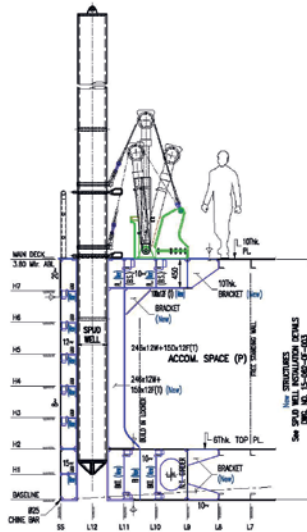
Wheelhouse deck



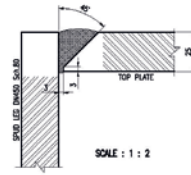
Accommodation deck



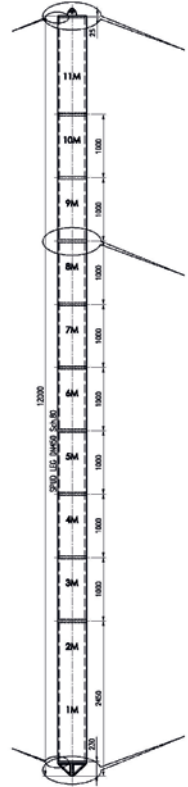
Profile at 5.75 m off cl



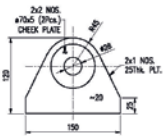
Trans. section at fr. 51



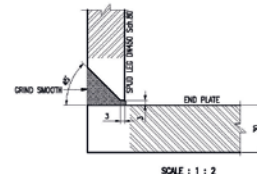
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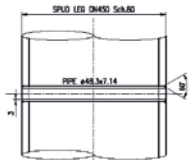
Spud detail



Pad eye



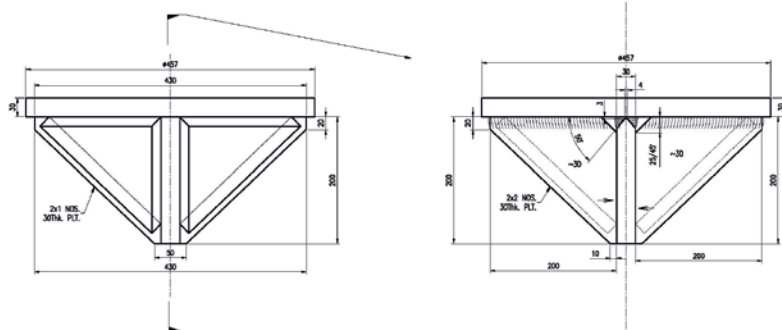
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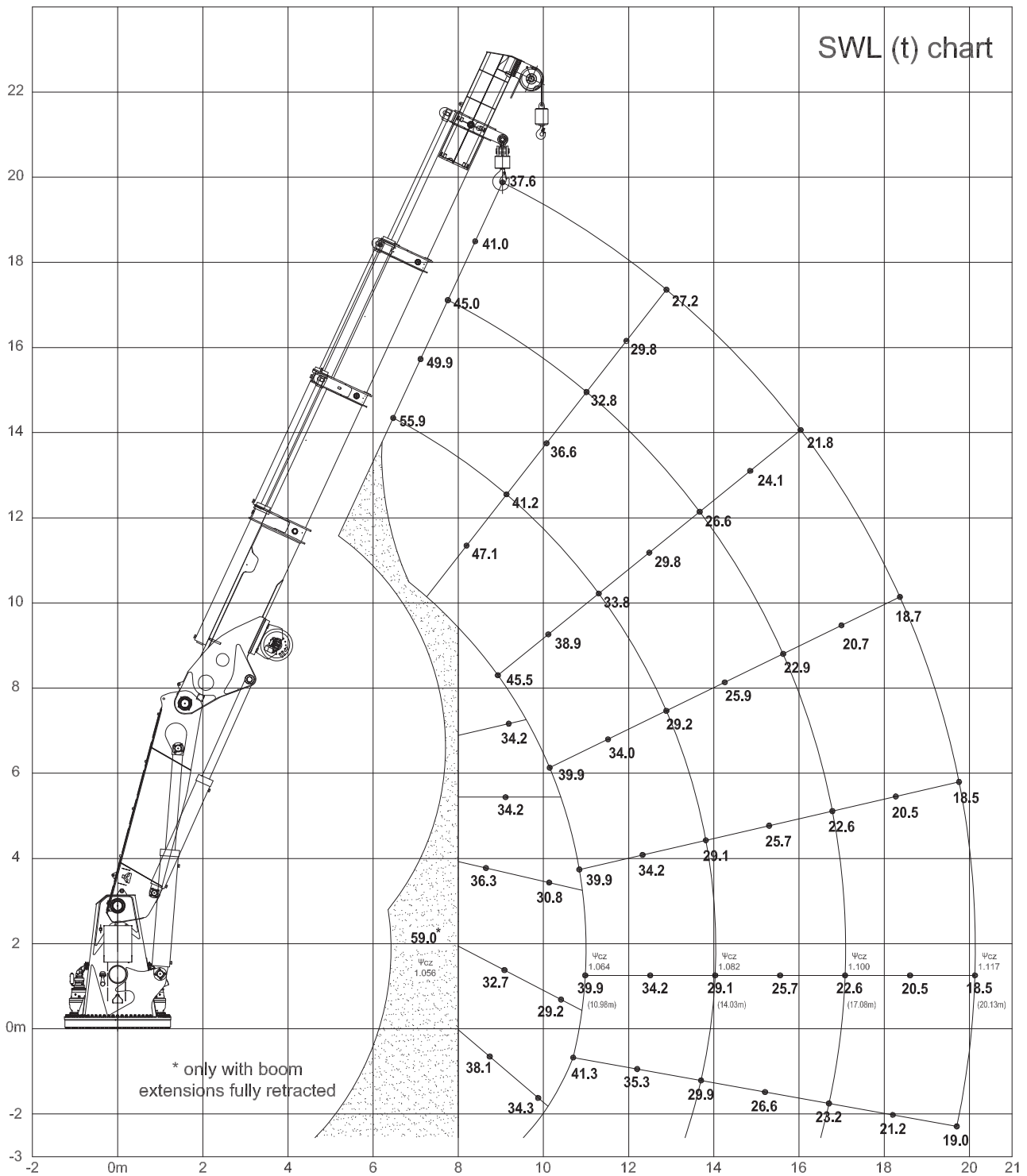
Pin with handgrip



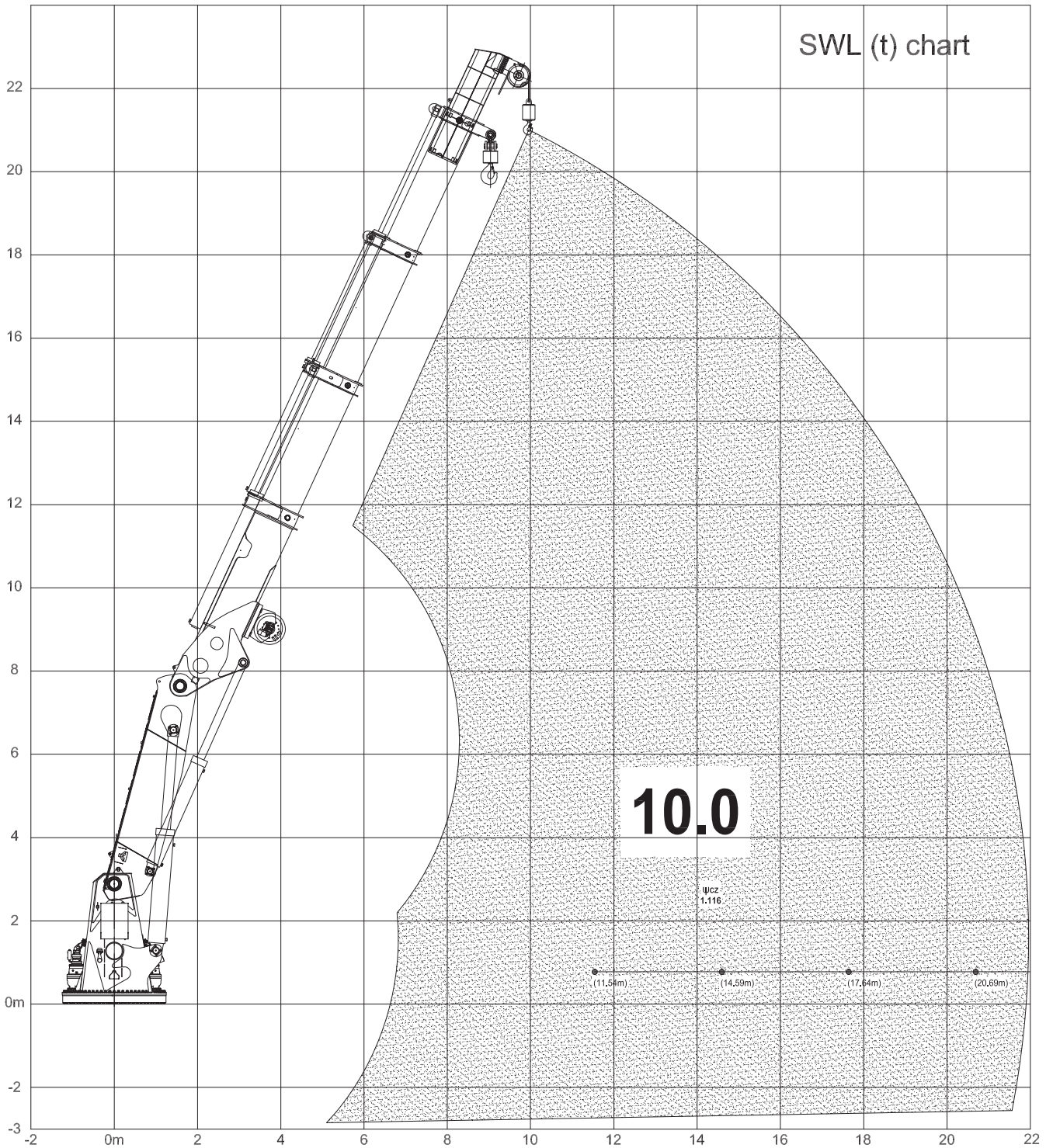
Spud leg head



Cover plate



duty category: II ($\psi_0 = 1.03$)
 operational conditions: offshore curve no.1 ($\alpha_{cz} = 1.07$), max list/trim $5^\circ/2^\circ$, max wind speed 24 m/s



duty category: II ($\Psi_0 = 1.03$)

operational conditions: harbour to offshore curve no.1 ($\alpha_{cz} = 1.07$), max list/trim $5^\circ/2^\circ$. max wind speed 24 m/s

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Revision February 2023 | All technical details are provided as a guide only and are subject to owner's changes without notice