

# Multi Cat 2712

'YN571880'



## GENERAL

Yard number  
Building yard  
Basic functions

571880 (Damen Shipyards Hardinxveld)  
Albwardy Damen (U.A.E.)  
Anchor handling, dredger service, supply, towing, pushing, transport, hose handling

## Classification

Bureau Veritas;  
I \* Hull • MACH  
Offshore support vessel  
Tug (design bollard pull 31 ton)  
Anchor Handling  
Unrestricted navigation  
• AUT-UMS

Emission regulations

IMO tier II certified

## DIMENSIONS

Length overall	27.27 m
Beam overall (Incl. tires)	12.45 m
Beam moulded	11.50 m
Depth moulded	3.90 m
Draft min	2.85 m
Draft maximum	3.05 m
Deck area	150 m <sup>2</sup>
Deck load	10 t/m <sup>2</sup>
Gross Tonnage	299
Deadweight	150 t

## TANK CAPACITIES

Fuel oil	108.0 m <sup>3</sup>
Fresh water	31.3 m <sup>3</sup>
Sewage	10.5 m <sup>3</sup>
Dirty oil	1.7 m <sup>3</sup>
Lubrication oil	1.5 m <sup>3</sup>
Bilge water	4.1 m <sup>3</sup>
Hydraulic oil	2.3 m <sup>3</sup>
TW tanks	43.0 m <sup>3</sup>

## PERFORMANCES (trials)

Bollard pull	32.3 t
Speed	10.2 kn

## PROPELLION SYSTEM

Main engines	2x Caterpillar, C32 TTA ACERT – B-rating
Single engine power	895 bkW @ 1800 rpm
Total Power	1790 bkW, 2400 bhp
Gearboxes	2x Reintjes, WAF 573L, 7.091:1
Propulsion	2x Promarin, fixed pitch propellers
Propeller diameter	2x 1900 mm in Optima nozzle
Bow thruster	1x Veth, VT-180, 184 kW, electrical driven

## AUXILIARY EQUIPMENT

Generator sets	3x Caterpillar, C7.1, 118 ekW, 147 kVA, 50 Hz,
	Parallel operated
Hydraulic power	4x 55 kW load sensing pumps
Pumps	Azcue
Fuel oil separator	1x Westfalia OTC-2, 1150 l/hr
Cooling systems	Cooling channels and boxcoolers
Sewage treatment system	1x Selmar, Blue Sea 3500
HVAC	Chilled water system
Silencers main engines	Damen Marine Service (Tier III prepared)
Lighting	LED

## DECK LAY-OUT

Anchor	2x 300 kg HHP (1 spare)
Anchor winch (hydraulic)	1x Kraaijveld, KAB-1-H-17.5D
Deck crane fore	1x HS Marine, AKC 290 LHE3, 11.3 t @ 16.5 m, 25.1 t @ 8.3 m
Deck crane aft	1x HS Marine, AKC 290 LHE3, 11.3 t @ 16.5 m, 25.1 t @ 8.3 m
Anchor handling winch	1x Kraaijveld, KA-20-H-TR,
Capacities	100 t @ 3 m/min pulling force 1 <sup>st</sup> layer
	150 t brake holding force 1 <sup>st</sup> layer
Towing winch	Wire capacity Ø 44 mm x 650 m
Capacities	1x Kraaijveld, KA-20-H-TR,
	50 t @ 10 m/min pulling force 1 <sup>st</sup> layer
Towing pins front	100 t brake holding force 1 <sup>st</sup> layer
Bow roller	Wire capacity Ø 36 mm x 650 m
Stern roller	1x DMC, double pin type with chain stopper
Tugger winch	Length 5700 mm, Ø 1000 mm, SWL 130 t
	Length 2000 mm, Ø 750 mm, SWL 110 t
	1x Dromec, HPV-12000, SWL 12 t @ 20 m/min

## ACCOMMODATION

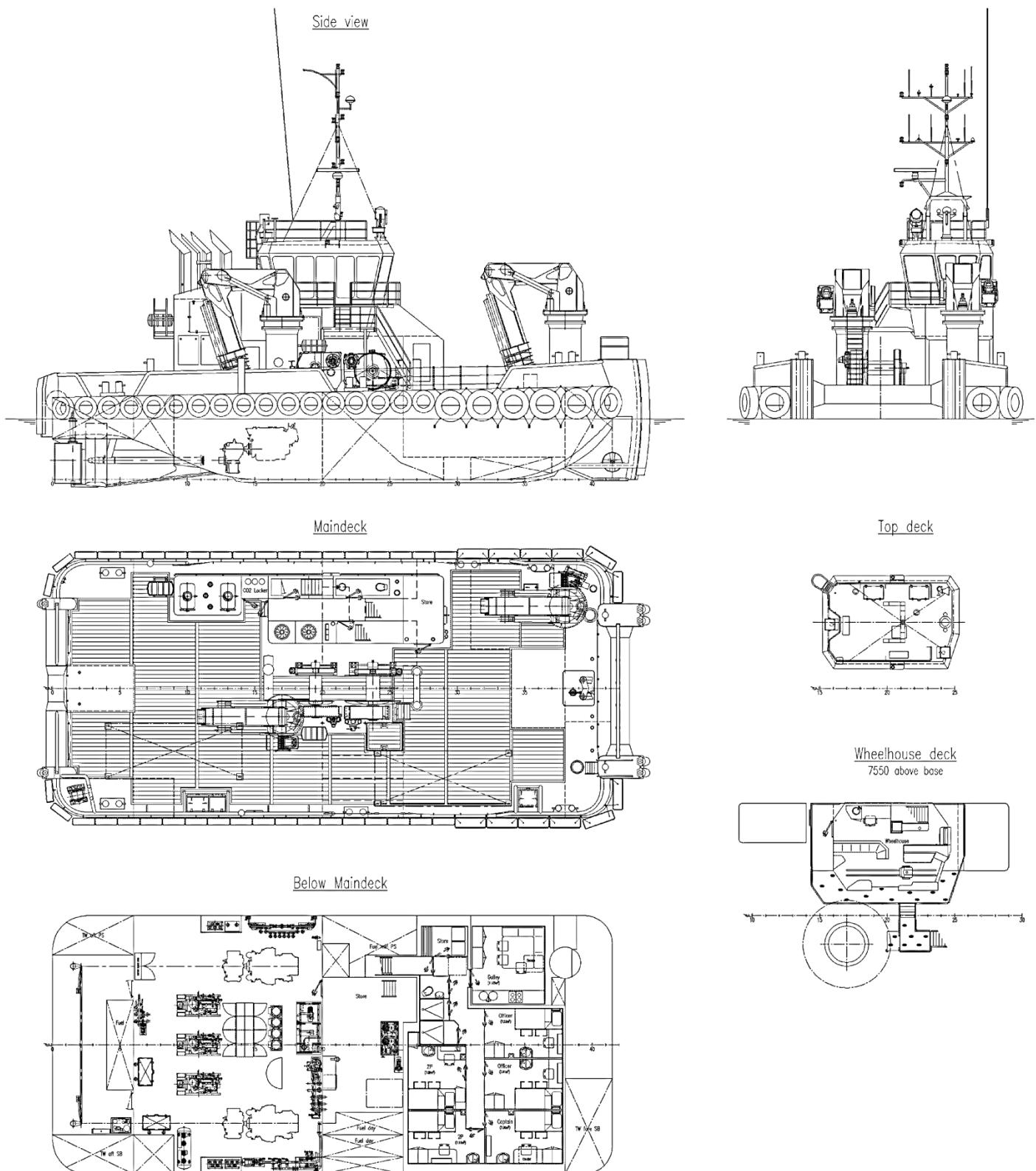
Comfortable heated and air-conditioned accommodation for 7 persons in two double crew cabins and three single officer cabins. A combined galley and mess is provided. Sanitary facilities and stores are fitted. The technical space is fitted below wheelhouse. A deck store with entrance from main deck is placed in front of the wheelhouse.

## NAUTICAL AND COMMUNICATION EQUIPMENT – GMDSS A3

Searchlight	2x Pesch, 2000 W
Radar system	1x Furuno, FAR-1518BB
Magnetic compass	1x Cassens & Plath, Reflecta 1
Autopilot	1x Simrad, AP-70
Gyro compass	1x Tokyo Keiki, TG-8100
GPS	1x Furuno, GP-170
AIS	1x Furuno, FA-170
Echosounder	1x Furuno, FE-800
Speedlog	1x Skipper, EML-224
Intercom	1x Phonetech, CIS-3101
Watch alarm	1x Marble, MS-421B
VHF / DSC	2x Cobham, RT-7222
Handheld VHF	2x Jotron, TR-30
SSB	1x Cobham, Sailor 6310
Immarsat - C	2x Cobham, Sailor 6110
Navtex	1x Furuno, NX-700B
Radio / TV aerial	1x Seasystems, SEAS-6000

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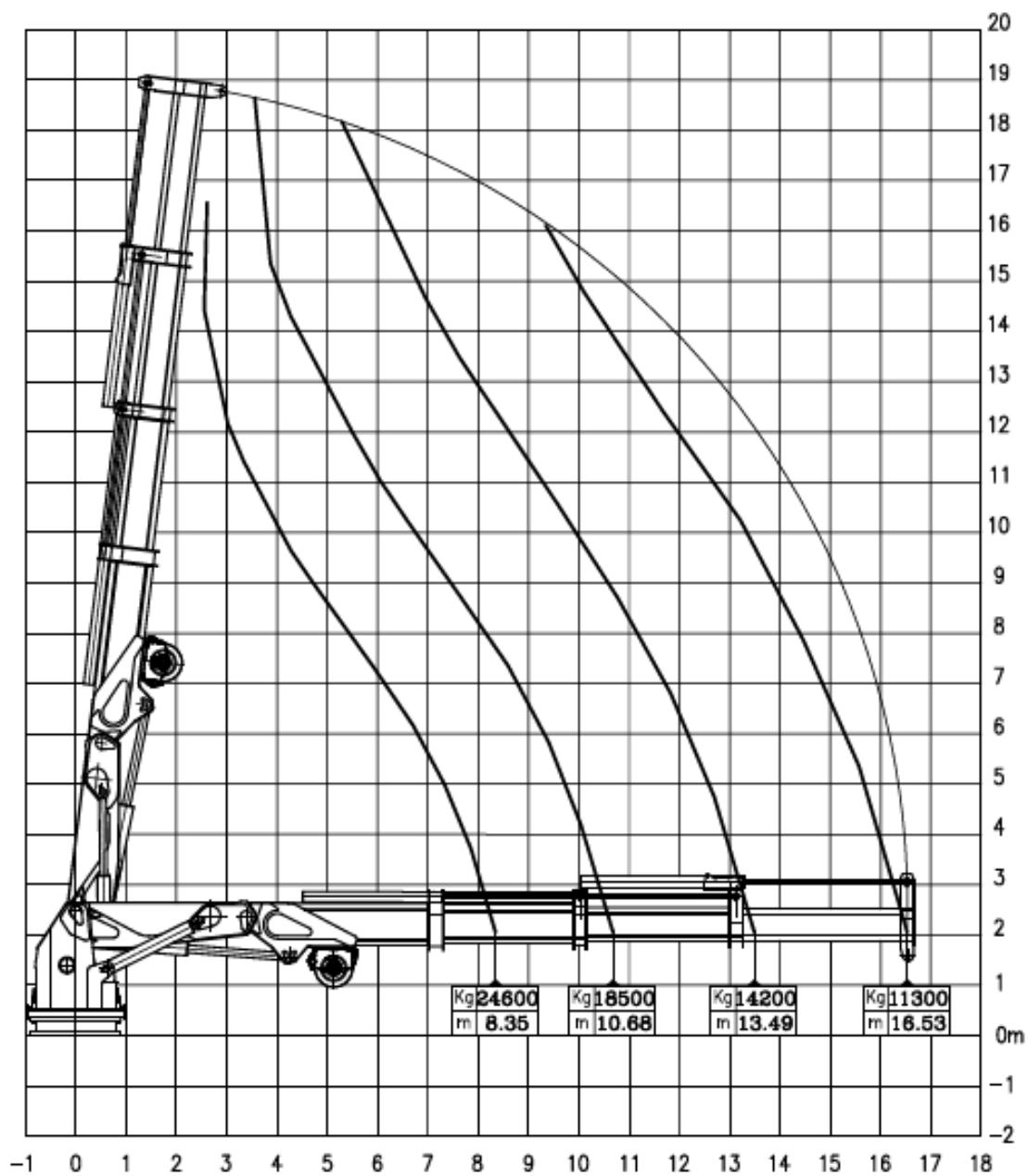
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## WORKING DIAGRAM with HOOK

Max Permitted Heel/trim Angles 5°/2°

**HS MARINE**



Marine Crane model AKC 290 LHE3

DESIGN STANDARD  
BV NR 526 DT R03 E (July 2021)  
SHIPBOARD CRANE (harbour or sheltered water use)  
 $\psi_b = 1.03$  (duty category II),  $\psi_{cz} \text{ min} = 1.15$   
Wind speed = 25 m/s