

Z-210

Multi-Purpose Service Jackup 280 Ft. Water Depth (85m)

The high performance, four legged, self-propelled, DP2 and self-elevating, multi-purpose jack-up unit Zentech Z-210, which has been designed to the requirements of ABS rules and regulations. The Unit will be classed as ABS (Maltese cross) A1 Self Elevating Unit + AMS + DPS-2. This vessel can undertake field moves and positioning for jacking operations without any tug assistance.



DESIGN CRITERIA

PRINCIPAL CHARACTERISTICS

DESIGN TEMPERATURES	
Service Temperature (for Steel Structures)	0 °C Minimum Design Temperature
Operating Temperatures	15 °C to + 55 °C ambient, (50 °C and 60 % RH for air conditioning) 15 °C to 36 °C for sea water. All equipment shall be suitable for operating at an ambient temperature of 55 °C.

HULL		
Hull Length	69.484 m	227.96 ft.
Hull Breadth	43.89 m	143.99 ft.
Hull Depth	5.500 m	18.04 ft.
Inner-Bottom Depth	1.525 m	5.00 ft.

DESIGN DECK LOADS	
Main Deck	10 MTON / sq.m (2048 lbs per sq. ft.) in some areas, and 5 MTON / sq. m (1024 lbs per sq. ft.) in all other areas
Quarters' Deck	0.45 MTON / sq. m.(92.16lbs per sq. ft.)

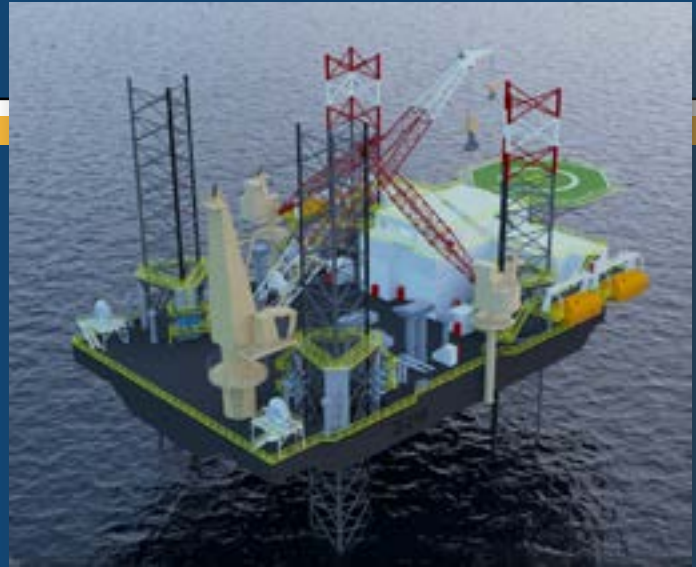
LEGS & SPUDCAN		
Number of Legs	4	
Number of Spud Cans	4	
Leg Length	112.184 m	368.05 ft.
Type	Open Lattice	
Cross Section	Triangular	
Spudcan Bearing Pressure	43.45 MT/sq.m	8.9 Kips/sq.ft.

DESIGN STORM SURVIVAL ENVIRONMENT	
Maximum Wave Height	10.06m (33 ft)
Corresponding Wave Period	12 sec
Maximum Wind Velocity (one min. avg.)	51.5 m/s (100 kn)
Current at surface	3.0 knots
Current at bottom	1.0 knots
Penetration	3.05 m (10 ft)

STORAGE CAPACITIES		
Ballast	1,380 cu.m.	8680 bbls
Fuel Oil	668 cu.m.	4201 bbls
Potable Water	680 cu.m.	4,284 bbls
Brine	208 cu.m.	1,310 bbls
Base Oil	208 cu.m.	1,310 bbls
Buffer Tank	416 cu.m.	2,620 bbls

DESIGN VARIABLE LOADS	
Afloat Condition	1,500 MT (3,307 kips)
Elevating Condition	1,500 MT (3,307 kips)
Elevated Storm Condition	1,500 MT (3,307 kips)

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Standard accommodation is provided for 150 men in 1-man, 2-men and 4-men rooms. (The Z-210 unit has the capacity to upgrade the accommodations up to 300 men).

Helicopter Deck– CAP 437 compliant Aluminum deck with DIFF System, suitable for up to Sikorsky S61N, S92 helicopters.

KEY EQUIPMENTS

Main Power	4 x CAT 3512 CHD, 1550 ekW at 0.8 pf, 1800 rpm, 690V, 60 Hz, Main Diesel Generator units for Self-propulsion at 6 knots in calm waters and DP2 capability
Jacking System	Siemens P2PA21, 48 Pinions, Normal jacking 200 MT per pinion, 0.46 m / min speed
DP2 and Propulsion	4 x 1000 HP azimuthing thrusters located at the 4 corners, driven by rig's main power and VFD controlled Station keeping possible even with loss of 1 thruster or 1 bus-bar DP2 Control and Navigation systems by Kongsberg Self-propulsion at 5 knots speed in calm weather
Cranes	STBD AFT 1 x 220 MT pedestal mounted, Electric-hydraulic crane with 42.67m (140 ft) boom. API 2C 7 th Edition 220MT @ 10m radius 140 MT @ 20m radius 60 MT @ 27.5m radius Lifting speed 0 - 20 m/min. PORT 1 x 50 MT pedestal mounted Electric-hydraulic crane with 36.57m (120 ft) boom, API 2C 7 th Edition 30 MT @ 24.4m radius STBD 1 x 30 MT pedestal mounted Electric-hydraulic crane with 36.57m (120 ft) boom, API 2C 7 th Edition 8 MT off-board @ 30.48m radius
Raw Water Supply	2 x Hose reels, 45 m (150 ft) length, 400 m ³ /hr. each
STP	Sewage Treatment Plant for processing black & grey water suitable for 150 POB. (Vacuum type toilets)
Water Maker	2 x Reverse Osmosis (RO) type Water Makers, 40 m ³ / day each for potable water generation
Life Boat and Life Rafts	4 x 75 Men Davit Launched Lifeboats
Emergency Mooring Winch	1 x 20 MT Emergency Mooring winch with 4.5 MT Anchor, 58 mm diameter, 300 meter wire.



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