Maersk Endeavour

Cantilever jack-up drilling unit

Owner Northern Offshore
Builder Rotterdam Dockyard Company, The Netherlands
Delivered 1982

Description

The three-legged cantilever jack-up drilling barge 'Maersk Endeavour' was delivered in 1982 to Brigantine Transport Corp., a fully owned subsidiary of Maersk Contractors, Denmark. GustoMSC developed the design to meet the operator's specific requirements. These include such features as 125 percent pre-loading capacity and active pre-loading in case of a sudden, unequal leg penetration.

The Maersk Endeavour has been operating in the North Sea since September 1982. At present the Maersk Endeavour is owned by Northern Offshore and renamed Energy Endeavour.

Main dimensions

Length hull	68.92 m
Breadth hull	97.00 m
Depth at centre line	8.57 m
Draught incl. spudcans	6.57 m

Classification

Lloyd's,
✠ 0U-100-A I - Mobile Drilling Platform, self-elevating P.C.
The design also fulfils the rules and regulations of British D.O.E./D.O.T. and of Danish Authorities.

Jacking system

GustoMSC patented electro-hydraulically driven rack and pinion system:

Jacking speed pontoon	21.3 m/hr
Jacking speed leg	33.5 m/hr
Holding capacity per leg	7,400 t

Legs

Length overall	108.00 m
Type	triangular lattice
Centre chord to centre chord	9.15 m
Number of legs	3
Spudcan	180 m^2
Maximum soil pressure	441 kPa

Accommodation

All air-conditioned, designed to accommodate 76 persons

Storage capacities

Fuel oil	551 m^3
Drill water	802 m^3
Potable water	229 m^3
Bulk tanks	256 m^3
Preload tanks	9,610 m^3
Sack storages	5,000 sacks
Mud pits	260 m^3
Tubular storage:	
▪ cantilever deck	200 t
▪ main deck	455 t
B.O.P. system	10,000 psi
Maximum payload	3,150 t
Cranes:	
- diesel hydraulic	70 t
- diesel hydraulic	50 t

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Design conditions

Operating

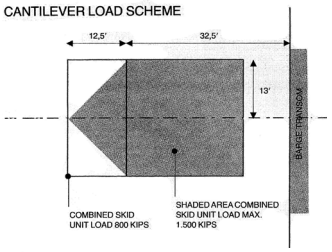
Water depth (incl. tide)	74.00 m
Wave height (trough to crest)	14.00 m
Wave period	12 s
Wind speed (1 min sustained)	26.20 m/s
Current at surface	0.90 m/s
Current 16 m above bottom	0.30 m/s
Current 7 m above bottom	0.25 m/s
Airgap under pontoon	27.88 m
Maximum payload	3.150 t
Cantilever position	acc. drilling pattern

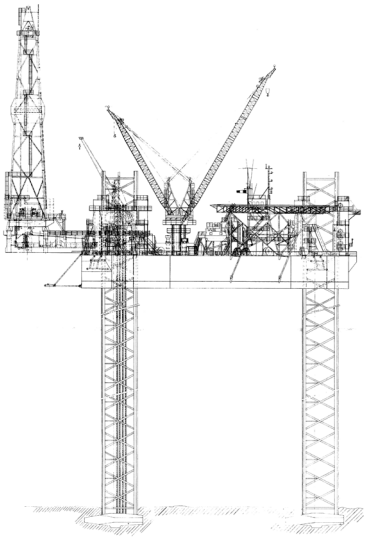
Tow conditions

Ocean tow with full leg length raised.
Field tow with full leg length raised and subsequent jacking up with maximum payload on board.

Survival

Water depth (incl. tide)	74.00
Wave height (trough to crest)	14.00 m
Wave period	12 s
Wind speed (1 min sustained)	26.20 m/s
Current at surface	0.90 m/s
Current 16 m above bottom	0.30 m/s
Current 7 m above bottom	0.25 m/s
Airgap under pontoon	27.88 m
Maximum payload	2,700 t
Cantilever position	fully extended





Load on drill floor

Setback	272 t
Rotary	408 t
Hook	454 t

However, combination of loads may not exceed the maximum loads as indicated on cantilever load scheme.

Data presented in this product sheet is for information only. Unit specific specifications as provided by the Owner shall prevail.