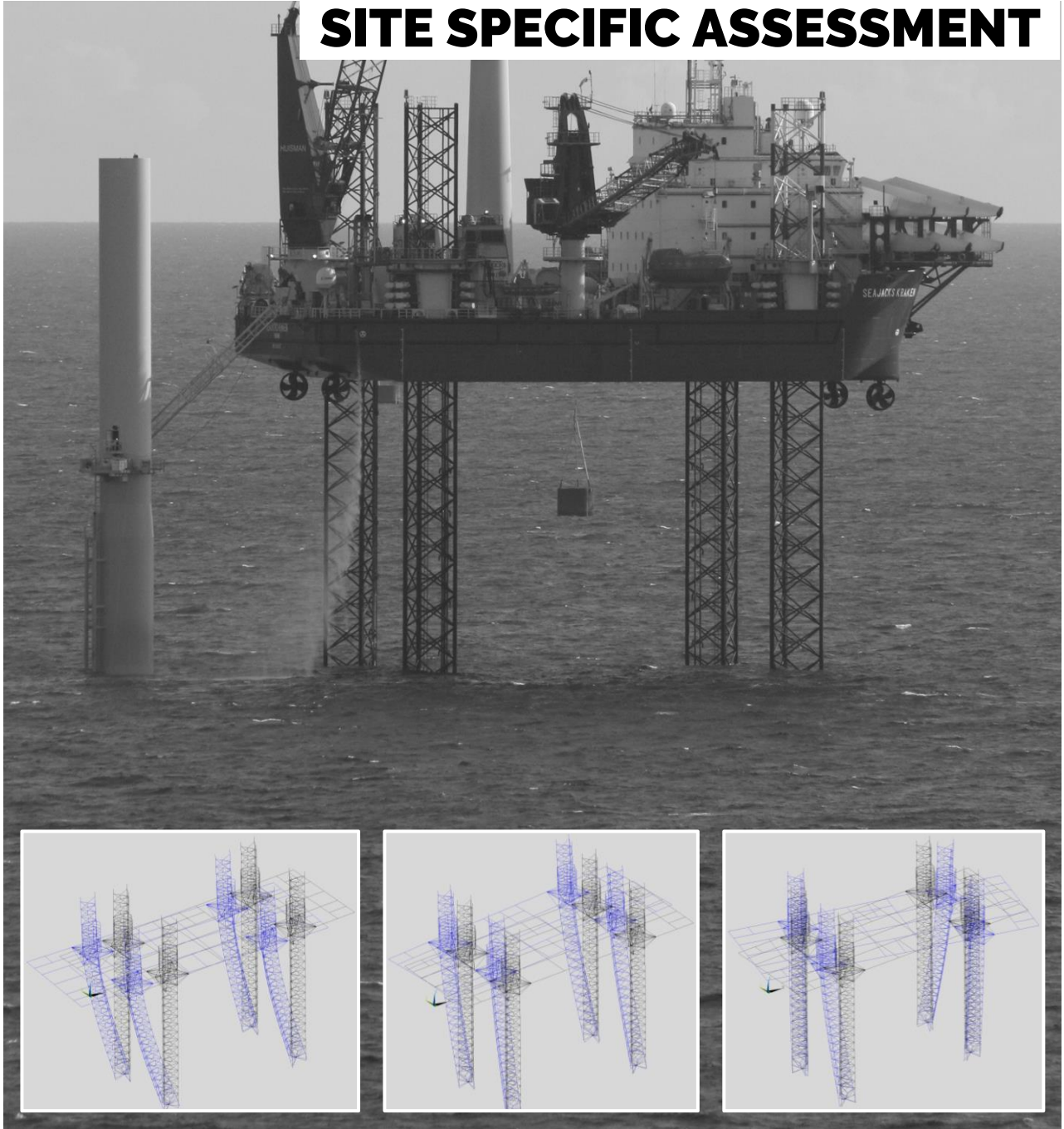


VUYK ENGINEERING ROTTERDAM

SITE SPECIFIC ASSESSMENT



BACKGROUND

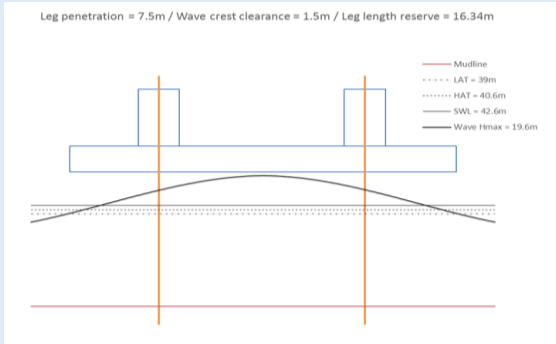
Prior to elevating operations of jack-up vessels, the crew safety, vessel integrity and environmental conditions should be assessed. As these parameters differ for each vessel, loading condition, working locating and season, Vuyk developed a Site Specific Assessment tool for jack-up vessels. The tool quickly evaluates the important parameters for jacking operations according to the ISO 19905-1, properly assessing the operation as required by insurance or marine warranty surveyor.



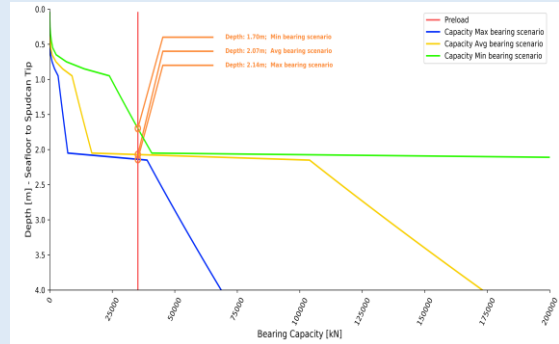
**DESIGN TO
FUNCTION.**

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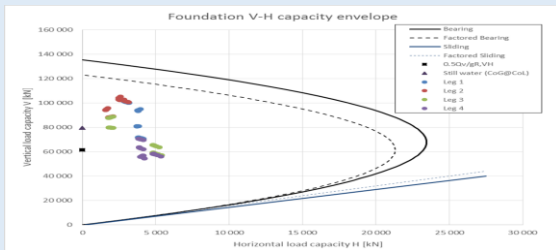
powered by **ROYAL IHC**



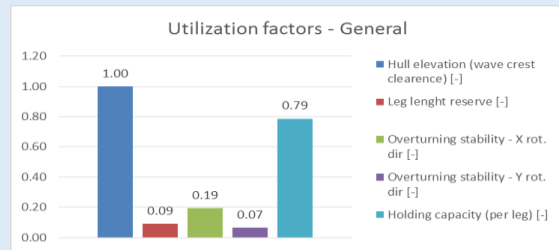
LEG LENGTH RESERVE & WAVE CLEARANCE



LEG PENETRATION & BEARING CAPACITY



SOIL CAPACITY CURVE



JACK-UP UTILIZATION FACTORS

FEATURES

- Assessment of environmental loads and dynamic amplification factor (DAF);
- Situation checks such as hull elevation, leg length reserve, overturning stability;
- Strength checks such as leg strength and jacking system capacity;
- Assessment of leg loads (tubular or lattice structure);
- Soil check such as preload and soil bearing and sliding capacity;
- Output of load penetration curves;
- Output of soil bearing capacity curves.

OPTIONAL

- Soil raw data interpretation (transformation into simplified parameters);
- Assessment of soil moment fixity;
- Earthquake assessment.



JACK-UP ELEVATED IN SHALLOW WATERS

VUYK ENGINEERING ROTTERDAM

Vuyk Engineering Rotterdam serves the maritime industry with integrated design and engineering packages. Vuyk is renowned for high-tech performance and tailor-made vessel designs or conversions, as well as equipment design and marine operations engineering.

The combined expertise in these areas enables Vuyk to fully understand your operations and requirements. As an independent design company, Vuyk can guide you through a complex process, providing meaningful answers to your queries quickly and accurately.



DESIGN TO FUNCTION.

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