

CASE STUDY

Location Oman
Customer PDO
Time scale 2022 – 2025
Details Newbuild rigs

TRANSFORMING DRILLING OPERATIONS

PIONEERING NEWBUILD RIGS IN OMAN



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KCA Deutag's rig construction project in Oman exemplifies a successful integration of leading technology, safety measures and local economic development, showcasing the company's commitment to long-term sustainability and excellence in drilling operations.

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*Ahmed Al Balushi
Country Manager (Southern Hub,
Operation) KCA Deutag, Oman*

PROJECT OVERVIEW

In 2022, KCA Deutag secured a 10-year drilling operations contract from Petroleum Development Oman (PDO) for the design and construction of four highly automated rigs, the first to be designed, built and manufactured in the Sultanate of Oman.

With an investment of approximately \$100 million, the project aimed to introduce leading safety, automation and mechanisation features and marked a significant milestone in the company's commitment to PDO and the local economy.

SERVICES PROVIDED

Designed and constructed by KCA Deutag's technology business unit, Kenera, at the International Drilling Technology Co. (IDTEC) facility in Nizwa, Oman, the 1250hp rigs have been tailored for safe, efficient and sustainable drilling operations. The project emphasised digitalisation, utilising the latest technologies where automation of key equipment is enabled via a central operating system, cyber drilling chair (Synapse) and bespoke software enhancing remote operations.

Other safety and mechanisation features include a ground-level pipehandling system, hydraulic mast and top drive locking, automated pipehandling, lay down/pick up doubles, mechanised catwalk machine and a remotely operated iron roughneck.

RESULTS ACHIEVED →



Spudding of the first well on location ↑

RESULTS ACHIEVED

In October 2023, PDO received delivery of rig one (T-144) with the first well spudded in January 2024. The second rig (T-145) is delivered and it spudded its first well in April 2024. The construction of rigs three and four (T-146 and T-147) will begin in quarter three 2024.

KCA Deutag's Omani operations were established in 1964 and the company continues to demonstrate effective In-Country Value (ICV), currently achieving 92 percent Omanisation.

Significant local investment was also delivered, with the company subcontracting significant work to Omani businesses, an overall investment value of 40 percent. In addition, IDTEC was established as the only API-licensed manufacturer for rig structures enhancing in-country rig building capabilities. The initiative also included training and upskilling programs, a summer internship partnership with Omani universities and the creation of opportunities for skilled jobs to support continued local economic development.

To deliver safe, efficient and sustainable drilling operations for PDO and improve drilling performance, realising full electric grid capability, the rigs aim to reduce flat times by **25%**



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All details correct as of April 2024

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