



# Drilling & Well Simulator

## Image Generation



“Our rack integration capabilities and reputation meant our customer had confidence we could take this project which was previously undertaken in-house, implement their needs and deliver them a platform optimised for reliability, flexibility and performance.”

**Key Account Manager,  
Captec**

A leading provider of innovative training simulators across multiple industries including energy, transport and infrastructure in over 40 countries. High performance, reliable and protected rack platforms are essential to maximising the effectiveness of the customer's range of simulators. In this project, the customer's production facilities were at full capacity, and they needed to outsource the build to a trusted third party provider.

## Requirements & Issues

- ▶ Outsourcing of rack design and development to free up valuable in-house resources and production space
- ▶ The customer needed the ability to control different computers in the rack using only a singular screen as opposed to multiple
- ▶ It was essential that the rack is started up in sequence rather than at the same time, to manage high power caused by a multitude of devices
- ▶ The customer's own equipment had to be integrated quickly and simply into the rack once delivered
- ▶ The rack needed to be protected from the threat of overloaded circuits and burnout
- ▶ The rack had to be able to support a significant amount of weight, while at the same time be simple to manoeuvre in place

## The Solution

- Integration-ready 35U rack platform that meets exact requirements, allowing resources to be refocused to where they add most value
- Specification of a retractable KVM allows the end-user to control individual platforms in the rack for setup and monitoring
- Two custom sequential starters ensure each device is turned on at five second intervals, managing high power inrush and protecting against tripped circuits
- A custom patch panel ensures the customer can connect external devices without the need for additional wiring
- Integration of an additional custom PDU with a display showing power usage helps the customer protect against failure
- Heavy-duty casters withstand the weight housed within the enclosure and supports ease of transportation



## The Outcome

- Racks arrive at the customer ready for system integration, increasing uptime and productivity
- The customer benefits from a rack that provides everything they need for simulation applications in one place, from one supplier
- As with all Captec racks, the platform was rigorously tested for electrical safety prior to delivery



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### EMEA Office

7 Whittle Avenue, Fareham,  
Hants, PO15 5SH, UK

- +44 (0)1489 866 066
- [sales@uk.captec-group.com](mailto:sales@uk.captec-group.com)

### North America Office

15 Saltsman Dr. Cambridge, ON.  
N3H 4R7, Canada

- +1 (519) 650 4000
- [sales@ca.captec-group.com](mailto:sales@ca.captec-group.com)