

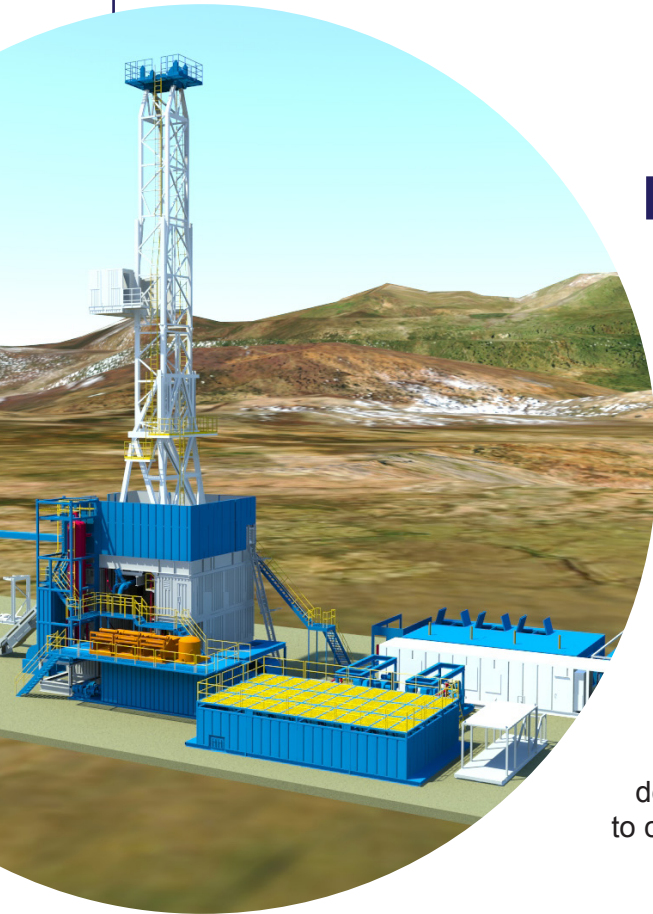
Land Rigs



JELEC

INNOVATION AND TECHNOLOGY
DRIVING SIMPLICITY AND EFFICIENCY

Land Rigs



Engineering

Jelec provides everything from conceptual design, front end engineering (FEED) studies, detailed design, and fabrication, to rig-up and commissioning.

We have the expertise to deliver the turn-key projects and/or the engineering services you desire. Jelec delivers, whether it is comprehensive engineering solutions for a new drilling facility, custom upgrades to your existing rigs, or consultation on the best approach to equipment and system integration.

Our in-house design and engineering team helps you meet your challenges by finding innovative and efficient solutions, adding real value by reducing the cost of drilling operations. We are proud of the reputation we have built by joining the expertise of oil companies, drilling contractors and manufacturers in order to design fit-to-purpose drilling rigs. Innovation in design has enabled us to create the most efficient mobile land rigs.

Innovative Solutions

Innovation is our passion! We have a diverse team of engineers constantly working together to develop and provide the best possible equipment and engineering solutions in the market. We work with our customers to provide tailor made solutions meeting specifications and demands to improve operations and increase efficiency while maintaining safe operations.

Drilling Equipment Integration

At Jelec, we understand that one drilling package design - one brand rig equipment - doesn't fit all. We will work with you on an individual basis to determine your unique rig design needs.

We integrate the drilling and pipe handling equipment (drawworks, top drive, mud pumps, iron roughneck, catwalk, etc.) from your choice of equipment manufacturer. Our scalable PLC network is designed to interface with virtually any vendor's drilling equipment and has already been successfully implemented and proven with the equipment from all the main equipment manufacturers in the industry.

Environmental Friendly Drilling Rig Design

We design and build multi-environmental drilling land rigs, for conventional and unconventional petroleum resources, which can operate in residential/urban areas, National Parks / Reserves, or any protected environment during animal migration seasons.

Standards / Certifications

- API
- IEC / NEC / IEEE
- IECEX/ ATEX / UL
- CE marking

Design

- Customized Land Rig Project
- Integrated Design
- Standard or Bootstrap Mast
- Box on Box or sling shoot substructure
- Modular containerized design
- Small Footprint
- Fast Moving / Quick and Safe Rig moves
- Optimized number of loads
- X-Y Walking capabilities
- Safety Through Design
- Designed for Industrial Drilling

Power, Control & Automation

- Highly Automated
- Jelec ADEOS (Advanced Drilling Optimization Efficiency Solutions)
- High Line Module for power grid connection
- Power Management System
- MV Festoon for long pad
- Offline BOP Testing
- Optimized Flat-Time
- Remote access
- Repetitions of best practice and consistent operations through rig automation

Environmental

- Energy Saving / Lower Fuel
- Low emissions (Tier IV)
- Low noise (less than 85dbA at 1 meter)
- Zero Discharge
- Less visible impact (camouflage)
- Lighting pollution optimization



Electrical Package

If you have your own rig design, Jelec can offer a complete electrical package with the latest technologies to increase your rig's efficiency and performance. Our industry specific technology experience and expertise in drilling applications enables us to best understand the overall project requirements for the power and control environment. A complete engineering solution reduces operational costs, increases safety, enhances drilling, and increases equipment performance.

Our focus on in-house design and manufacturing of custom-designed power delivery solutions, including power distribution, automation & control system, and power control rooms (PCRs), enables us to deliver a smooth integration between all aspects of the project without the finger pointing that comes with a multi-supplier solution. At Jelec, we are continually pushing our own standards higher to deliver the safest, most efficient, and most reliable drilling solutions in the world.

Our electrical package includes:

- Electrical & Instrumentation Engineering
- Low emission, low noise generator package
- AC Power Control Room
- Local Equipment Room
- Low Voltage or Medium Voltage Festoon
- Drillers' cabin
- Jelec's ADEOS Control & Automation (see brochure)
- Pipe Handling Control & Automation
- Installation Engineering
- Electrical Installation
- Commissioning





JELEC

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