

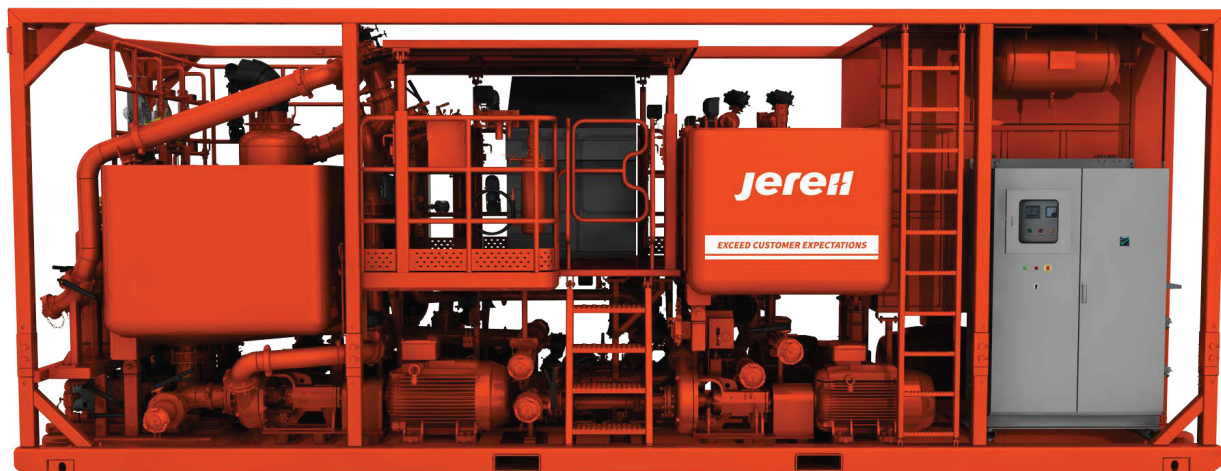


# IntelliBlend™ - Electric-Driven Automatic Cement Mixing Skid

As cementing technologies continue to evolve, the demand for electric-driven automatic mixing systems is increasing. American Jereh International Corporation has introduced a groundbreaking innovation - the IntelliBlend Electric-Driven Automatic Cement Mixing Skid designed to operate seamlessly with drilling rigs. The system performs a portion of the cementing operations without fuel consumption, resulting in substantial cost savings. Simultaneously, it minimizes standby time for traditional diesel-powered equipment, thereby enhancing the overall drilling efficiency and performance.

The IntelliBlend Electric-Driven Automatic Cement Skid features Jereh's automatic mixing control system, allowing for fully automated management of slurry density, level, and displacement. The control precision is within  $\pm 0.01$  g/cc, enabling complete automatic control throughout the process, including pre-flush, pre-mix, lead slurry, intermediate slurry, tail slurry, and displacement fluid.

Additionally, the skid is equipped with an intelligent additive injection system. By simply entering the desired additive flow rate, the system can automatically deliver additives to either the measuring tank or mixing tank, eliminating the need for manual operation and enhancing both safety and efficiency. However, a manual mode is also available, as the skid includes an automatic lifting sunshade with optional manual control.



## Features and Benefits

### Cost Reduction and Efficiency Improvement

- Works with mud pumps to perform cementing operations with no fuel consumption, reducing operating costs under equivalent conditions.
- Wide application range can deliver slurry to mud pumps, fracturing pumps, or other pumping equipment for cementing operations. It can also serve as a substitute for conventional cementing trucks in suitable operations.

### Designed for Reliability

- Designed for multiple transport and handling modes, including lifting, forklift, container corner fittings, and winch towing, ensuring convenient field deployment.
- Equipped with two clean-water pumps and two slurry pumps that can back up each other. Any combination can perform mixing and pumping operations, ensuring continuous and stable performance.
- Uses outdoor-rated high-protection VFD's (variable frequency drives) capable of stable operations under high temperature (up to 48.9° C/120° F) and dusty desert conditions.

## Specifications

Item	Description
Model	ZHQ20D
Skid Type	Heavy-duty skid
Mixing Tank	26 bbl (4.1 m <sup>3</sup> )
Measuring Tank	20 bbl (3.2 m <sup>3</sup> )
Motors	55 kW water mixing centrifugal pump motor 75 kW circulation/boosting centrifugal pump motor 75 kW hydraulic motor
Mixing Control System	Dual-variable automatic control system
Dimensions (LxWxH)	26.9 × 8.3 × 10.3 ft (8200 × 2520 × 3150 mm)
Wet Weight	39,683 lbs (18,000 kg)
Slurry Density Range	8.35 – 21.7 ppg (1.0 – 2.6 g/cm <sup>3</sup> )
Maximum Mixing Capacity	14.5 BPM (2.3 m <sup>3</sup> /min)

