

Sarens Launches SGC-90 Electric Ring Crane

Nicknamed “Little Celeste”, Sarens’ new electric crane can generate its own power



As an innovator in the heavy lift industry, Sarens is proud to announce the newest addition to its global fleet: the SGC-90, an environmentally-friendly electric ring crane ideal for projects in the nuclear, logistics, construction, and offshore wind sectors. With a project already lined up for this year, the SGC-90, nicknamed “The Little Celeste”, is ready to make an impact.

The newest crane in the fleet was developed in response to market demand for heavy lift cranes with capacities greater than 80.000 TM. Its ring diameter is 35 metres, maximum counterweight is 3.000 tonnes, and maximum load moment is 96.000 tonnes. It can be configured in a variety of ways, with main boom lengths of 100, 120, and 130 metres and a small jib of 200 tonnes. The Sarens heavy duty and light jib can also be used to reach further or attain a higher hook height.

Clients who choose the SGC-90 can expect mobilisation and demobilisation to match that of the SGC-120, approximately four to five weeks.

Environmentally-friendly features

The most unique aspect of the SGC-90 is that it is an electrical crane. While all Sarens' other SGCs are hydraulic cranes, the SGC-90 can be connected to the electric grid and be fully powered without a traditional fuel source. Uniquely, the Little Celeste can even produce its own energy, recovering and reusing the electricity it generates each time it lowers a load. When connected to the national grid, it recovers all produced energy and feeds it back, reducing energy consumption by up to 40%.

Because it runs on electricity, the SGC-90's operation is very silent. It is energy-efficient and environmentally friendly, emitting no exhaust and posing no oil contamination hazards. Finally, the crane is maintenance-friendly and reliable, with no hydraulic pumps, filters, or engines.

Development and Safety

The Sarens RDTs team developed the concept of the crane in-house, performing all calculations and coordinating with different contractors to construct the crane on a tight timeline. Although the crane was developed during the Covid-19 pandemic, this did not impact progress because Sarens had already implemented rules and procedures to minimise possible health impacts and promote employee safety.

The Little Celeste conforms to the latest crane standards for safety and security. Directive, static, and dynamic overload tests as well as function and safety tests have all been successfully performed according to the Machinery Directive, and witnessed by the certification company.

Sarens looks forward to introducing the Little Celeste to clients and debuting this powerful, efficient, and environmentally-responsible crane in the field!

Sarens is the global leader and reference in crane rental services, heavy lifting, and engineered transport. With state of the art equipment, value engineering, one of the world's largest inventories of cranes, transporters, and specialty rigging equipment, Sarens offers creative and intelligent solutions to today's heavy lifting and engineered transport challenges.

With more than 100 entities in 65 countries operating without borders, Sarens is ideal partner for small-scale to mega scale projects. Sarens currently employs 4543 highly skilled professionals who are prepared to support the clients' requirements around the globe and across every market sector. (www.sarens.com)