

The Soilmec SR-65 Blue Tech Is What Drillers Want

The Soilmec SR-65, introduced in 2018 in the EVO version, has quickly become one of the most desired LDP drilling rigs in foundation construction. The SR-65 has become well known for its performance capabilities in drilled shaft work as well as with segmental casing and CFA (continuous flight auger).

As part of the continued effort to advance drilling technologies the SR-65 is being upgraded to the Blue Tech version which includes a redesigned operator cab, new hydraulics and mechanics for an improved efficiency.



The SR-65 Blue Tech will continue to weigh in at approximately 65 t (c/w 4x13,5 m Kelly Bar), which allows for transport of the rig (with Kelly Bar on), in most locations, in just a single load. This allows for quick mobilization with the ability to unload the rig and start working in less than 30 minutes. At the heart of the SR-65 Blue Tech is a Cummins L9 diesel engine, which delivers 365 hp at 2,100 rpm. The engine meets the Stage V / Tier 4 final emission standards and can also be set up to offer a power surplus up to 380 hp, making the rig capable of easily handling the most difficult drilling conditions.

These engines are equipped with low-idle and automatic control of the radiators. Additionally, they will automatically adjust speed according to the actual needs of the drill. In this way, the engines are able to improve combustion and cooling efficiency and permit real reductions in noise pollution. The hydraulic and electric systems have been simplified to minimize energy loss and provide added space for maintenance. The main pumps have been optimized with the new engine to deliver efficient drilling power, pull capacity, performance and fuel efficiency.

In terms of torque, pull up and clearance, the SR-65 Blue Tech ranks on top among the available options in the market and represents the ideal choice for use with segmental casing technology. The rotary head has a compact and lightweight design that is able to transmit a maximum of 258.5 kNm and can be fitted with 2 different waste discharge systems. The Soilmec spin-off system leverages the high rotational speed cinematic energy that is unparalleled when using an auger. The SR-65 Blue Tech also has a new "click-click" discharge system that is much more efficient when using a drilling bucket or working in very cohesive soils.

To boost productivity in hard soil and rock, and to minimize loss in tough operating conditions, the SR-65 Blue Tech rotary head is equipped with an automatic control of motor displacements. This results in optimizing the drilling speed and productivity in every phase of drilling. Ultimately these small selected measures reduce losses and make it possible to achieve better torque efficiency on the drill tool.



The design of the SR 65 Blue Tech is solid and compact. The tail swing radius is just 3,750 mm and the high strength mast allows the use of 16,5 m Kelly Bar to achieve depths of over 77 m. The mast itself is also prearranged to mount both cylinder and winch crowd systems depending on need or preference. The cylinder crowd system, with an extraction power of 280 kN, is equipped with a double positioner on the drilling mast; this allows the use of the entire available track for both large diameter tools (working under the lower part of the mast) and long casing segments. The rig can also be equipped with a winch crowd system that can offer a track of more than 16 m with extraction power of 330 kN. The added stroke and power provide the ability to drive longer casing segments in a single pass.

Additionally, The SR-65 Blue Tech can be fitted with a segmental mast boosting its versatility and Low Headroom (LHR) operation capability. The modular mast allows setup of the machine into LHR configuration by simply removing the upper element thus reducing the overall height to just 8.5 m.

The SR-65 Blue Tech is built in compliance with most stringent safety standards with a special care for easier accessibility, higher visibility and a safer maneuverability without losing sight the eco-friendly characteristics.

The rig is equipped with Soilmec's DMS 4.0 (Drilling Mate System). DMS 4.0 provides a simple graphical navigation menu to assist the operator in the day to day planning and drilling execution.

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