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## FOUNDATION DRILLING

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## Drilling Foundations – the Soilmec SR-80 C

### New drilling rig for LDP and CFA

**W**ith the new SR-80 C, Soilmec has reached its target to complete a range of drilling rigs for large-diameter piles and remarkable depths.

After seeing the great success of the SR-70, SR-90 and SR-100, introduced since 2005, Soilmec now offers the demanding foundation market a new possibility – to choose a new rig combining the reliability of Soilmec's SR series to that of Caterpillar. In fact, SR-80 C is a perfect mix of a CAT base machine turret (345 C) with the Soilmec standard rotary. The CAT C13 engine generates the considerably rated power of 328 kW at 1,800 rpm, with the guarantee of reliability, quality and durability that have made CAT famous around the world. Noteworthy are the performances of SR-80 C. It's possible to drill large bored piles with a maximum diameter of 2,000 mm, at a depth of about 80 m. In case of CFA (continuous flight auger) projects, the rig has been conceived for piles up to 1,200 mm at a depth of 25 m.

The multi-functionality of SR-80 C is demonstrated by its ability to be fitted with crowd system, whether made by winch (13,000 mm stroke – standard) or cylinder (6,500 mm stroke – optional). As an alternative to the standard spin-off rotary, customers can select the innovative shifting-gear rotary, with three mechanical high-speed gears. This new solution enables a nominal torque range that varies from 292 kNm to 132 kNm, permitting higher production in terms of m/h, and a better rotation-to-torque ratio, with a maximum drilling speed that varies from 27 rpm to 107 rpm.

As for the other Soilmec machines based on a CAT turret, the winches are positioned in the lower part of the mast, in front of the cabin, to provide the operator an opportunity for constant surveillance. The main winch has a maximum pull of 260 kN and a speed of 75 m/min., while the auxiliary winch has a maximum pull of 100 kN, and a speed of approximately 65 m/min. The machine also can be arranged with a free-fall service winch with 80 kN nominal line pull.



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**Soilmec SR-80 C**

**Rated power:**

328 kW at 1,800 rpm

**Max pile diameter:**

2,000 mm (kelly version)

1,200 mm (CFA)

**Max pile depth:**

77 m (kelly version)

24 m (CFA)