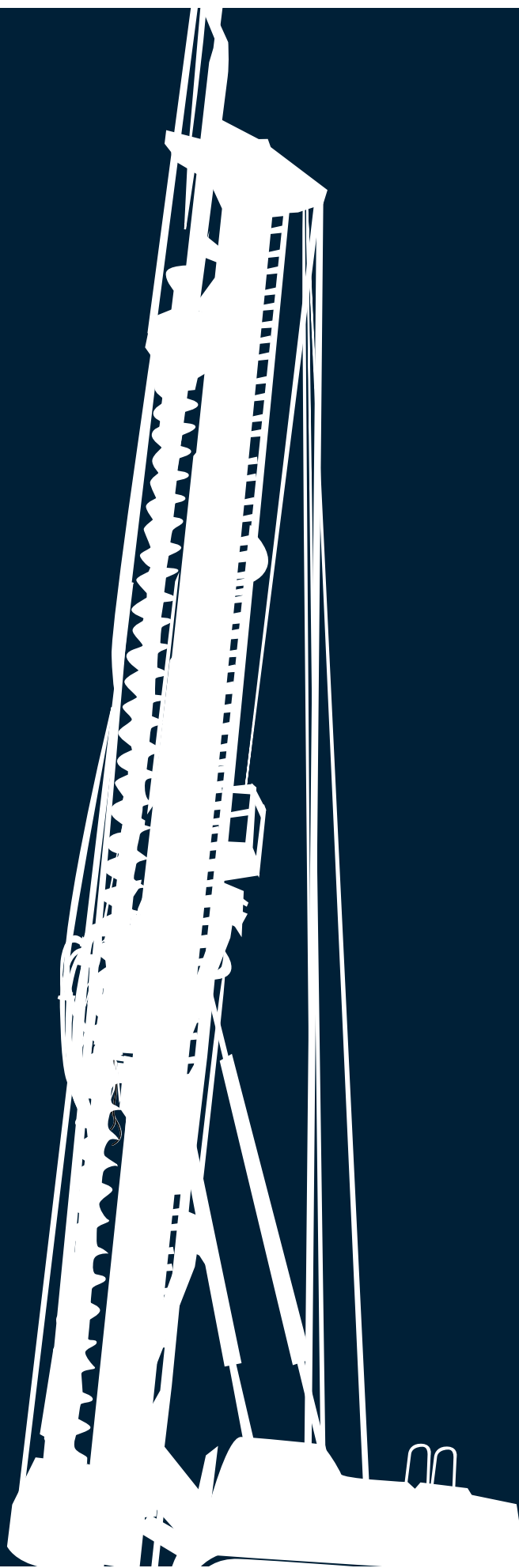


SF-50

HYDRAULIC CFA ROTARY RIG



SF-50

HYDRAULIC CFA ROTARY RIG

A new model

The **SF-50** drilling rig, is the evolution of the already existing equipment dedicated to Continuous Flight Auger drilling technique.

The upper structure of the SF-50 is mounted on SOILMEC base carrier and has been designed to perform:

- **C.F.A. bored piles**
- **Down-The-Hole-Hammer (D.T.H.)**

Its outstanding features are:

- completely self-erecting
- up-to-date instrumentation
- high reliability and safety in the job-site
- quick installation
- extendable tracks from 2.5 to 4.0 m
- easy manoeuvrability
- low transport costs
- high production
- reduced transport dimensions

Drilling Performances

Max pile diameter	mm	900
Max pile depth	m	25 (6+19)
Max pile depth (w/auger cleaner)	m	23.5
Max extracion force	kN	510
Pull-down winch force (optional)	kN	40
Auger cleaner max diameter	mm	900

Diesel engine

Make / Model	CUMMINS QSB 6.7 Tier III	
Rated Power	kW (HP)	165 (220) @ 2200 rpm

Hydraulic pumps

Main pump	lt/min	320
Max working pressure	MPa	30

Main winch

Controlled Descent

1 st layer nominal line pull	kN	102
1 st layer nominal rope speed	m/min	67
Rope diameter	mm	19

Auxiliary winch

Controlled Descent

1 st layer nominal line pull	kN	41
1 st layer nominal rope speed	m/min	66
Rope diameter	mm	16

Rotary table

Nominal torque	kNm	90 @ 11,2 rpm
Maximum drilling speed	rpm	41

Weight and dimension

Transport width	mm	2550
Transport height	mm	3255
Operating weight	ton	39
Transport weight	ton	32,5

Undercarriage

Overall lenght	mm	4660
Track shoe width	mm	700
Overall width (extended)	mm	4000
Overall width (retracted)	mm	2500
Ground pressure	MPa	0,07

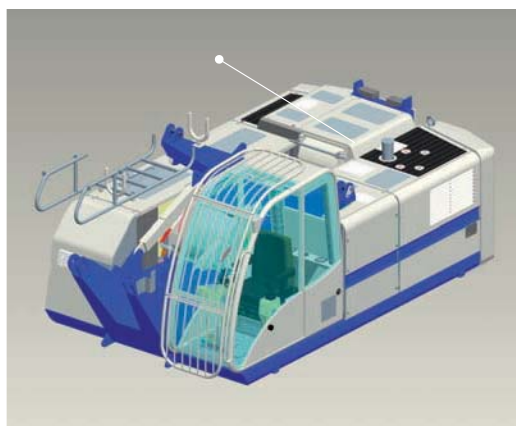
Additional std. features

Folding and self-erecting mast
Grids for front cab protection
Air conditioning or heating system for the cab

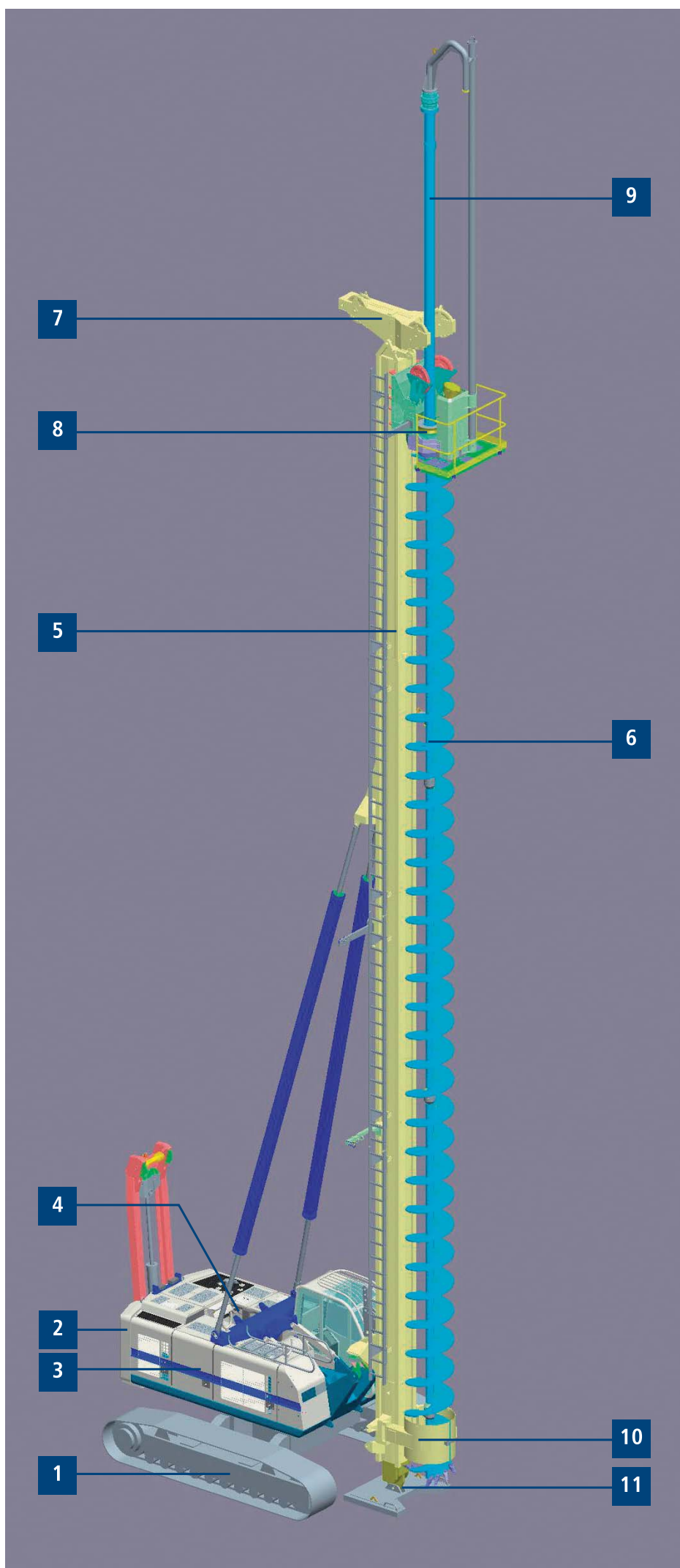
Options features:

- 360° turret rotation
- track shoes 900 mm wide
- pull-down winch (40 kN)
- two-axle electronic inclinometer in the cab
- electronic system to control the extraction pull; it is provided with visual and sound alarm in case of overloading
- ladder on mast
- 4" or 5" concrete pipework on the mast, supplied with insulation, upon request, for tropical climates
- auger cleaner (Ø 900 mm max.)
- VTH-1 vibrator power take off for cage driving.

- 1 - **Undercarriage** with extendable tracks.
- 2 - **Self lifting** counterweight.
- 3 - **Turret** of 360° slew rig c/w diesel engine soundproof canopy and power pack
- 4 - **Winch assembly**
- 5 - **Self erecting mast** on which can be applied the max torque over the whole mast length
- 6 - **Continuous Flight Auger**
- 7 - **Sheave cathead**
- 8 - **Rotary head**
- 9 - **Auger extension**
- 10 - **Openable lower guide**
- 11 - **Foot element**



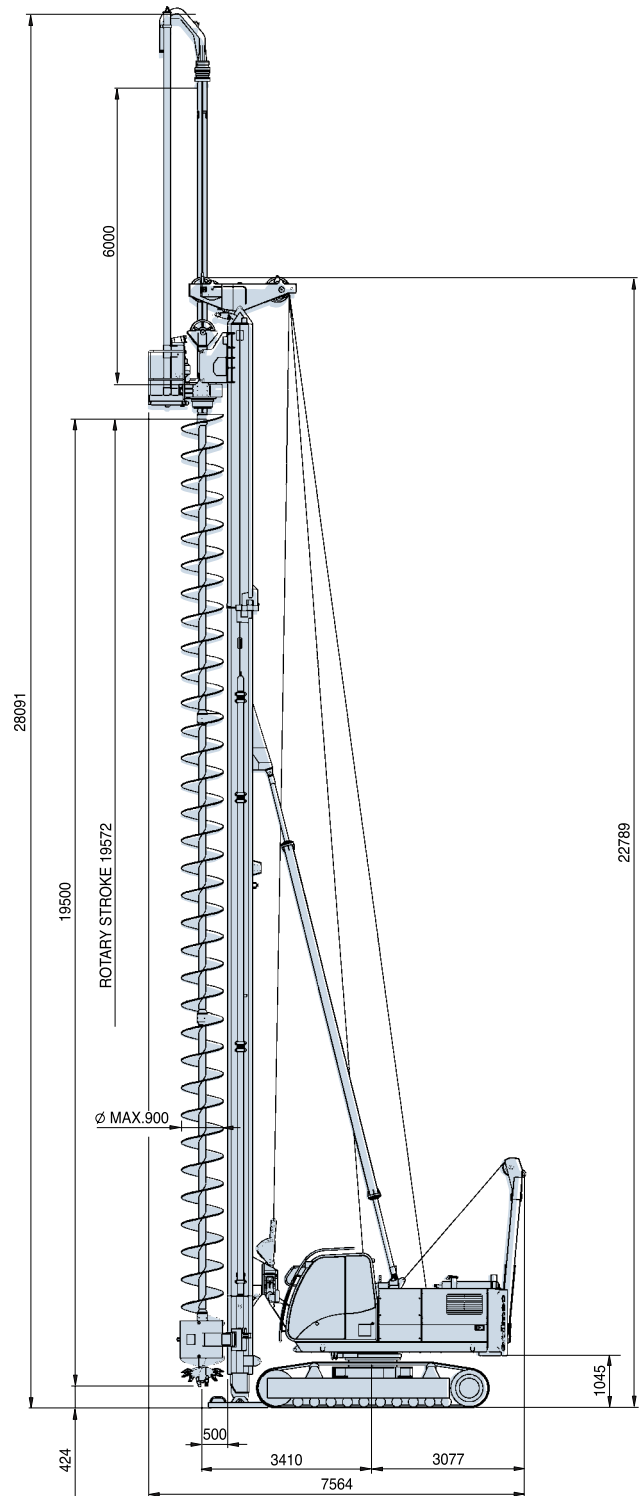
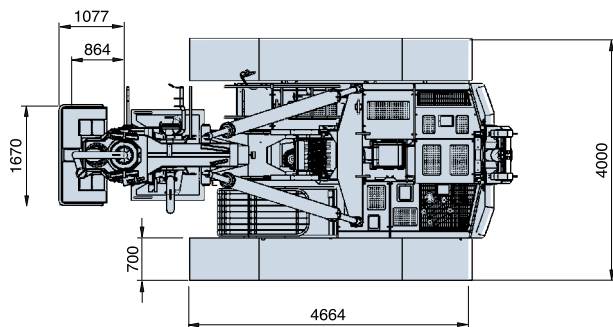
NEW TURRET SOILMEC Details



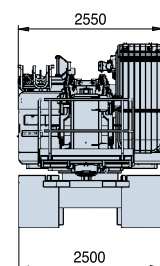
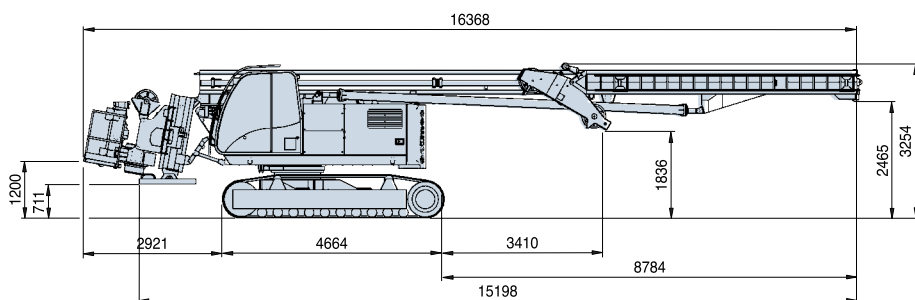
SF-50

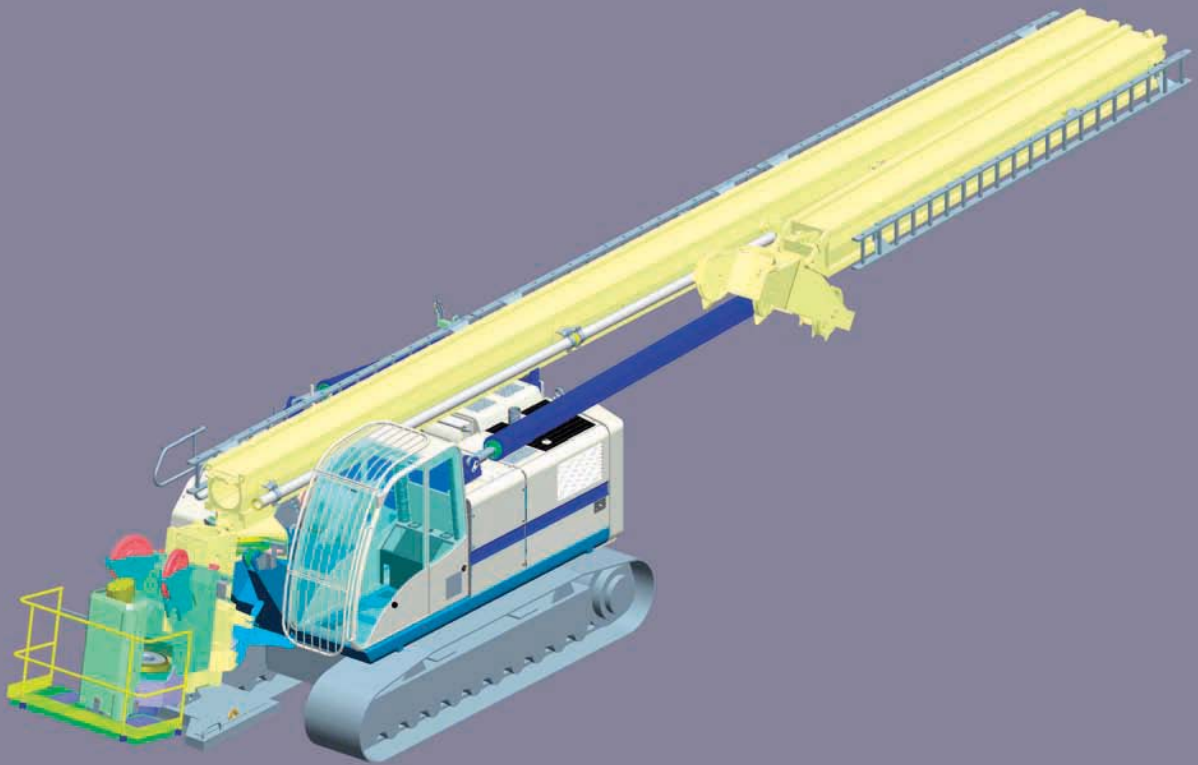
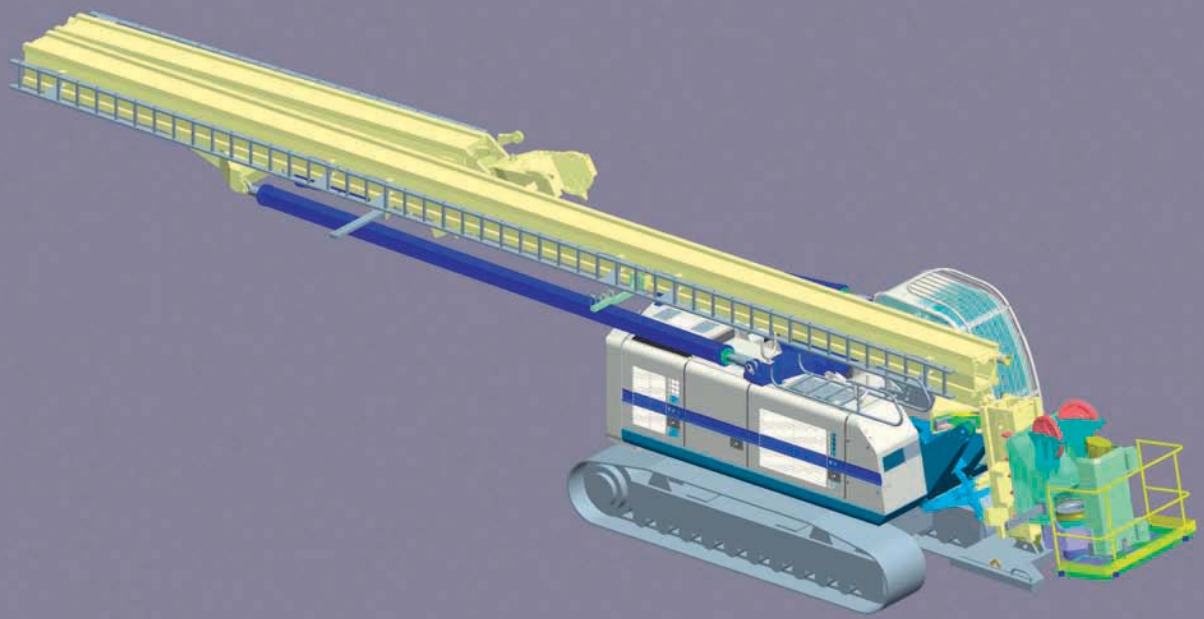
HYDRAULIC CFA ROTARY RIG

Working Condition



Transport Condition





SOILMEC distributes machinery and structures all over the world, supported by SOILMEC subsidiary companies and representative offices as:

SOILMEC LTD - U.K.

SOILMEC MISR S.A.E. Co. - Egypt

SOILMEC (H.K.) Limited - Hong Kong

SOILMEC JAPAN CO LTD - Japan

SOILMEC S.P.A. - Beijing Repr. Office - P.R. China

SOILMEC FAR EAST PTE.LTD - Singapore

SOILMEC EMIRATES - U.A.E.

SOILMEC GULF - U.A.E.

SOILMEC FRANCE S.A.S. - France

SOILMEC INDIA - India

SOILMEC S.P.A. - Moscow Repr. Office - Russia

CERTIFIED QUALITY SYSTEM

In 1990 Soilmec was awarded with the certification of its Quality System complying with ISO 9001:2000 and ISO 14001:2004 standards.



SOILMEC S.p.A.

Drilling and Foundation Equipment

5819, via Dismano

47023 Cesena (FC) - Italy

tel. +39-0547-319111

fax +39-0547-318548

[http:// www.soilmec.it](http://www.soilmec.it)

e-mail: soilmec@soilmec.it

All technical data are purely indicative and subject to change without notice.

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Drilling and Foundation Equipment