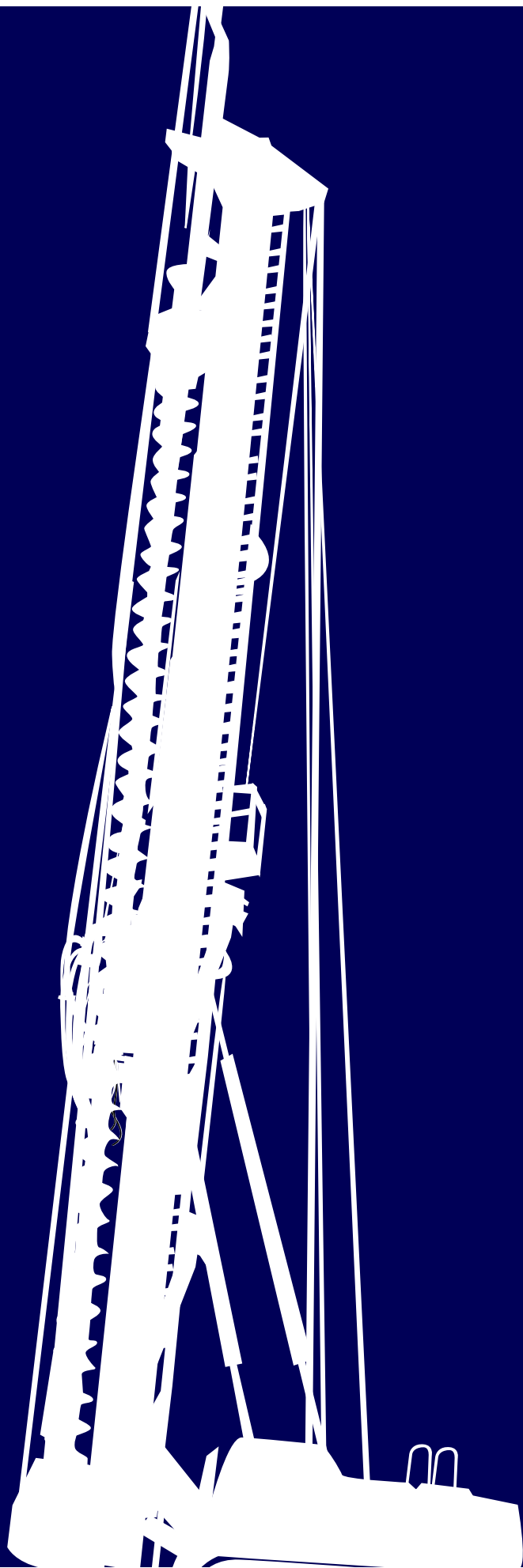


SF-50

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

Its outstanding features are:

- completely self-erecting
- up-to-date instrumentation (SOILMEC DMS SYSTEM)
- 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
- 2 different track shoes width: 700 mm or 900 mm

CONTINUOUS FLIGHT AUGER (CFA)

Main performances

Max pile diameter	mm	900
Max pile depth	m	25 (1°+ 6)
Max pile depth (with auger cleaner)	m	23.5
Extraction force	kN	510

Engine

Model		CUMMINS QSB 6.7**
Rated Power - SEA J 1995	kW (Hp)	164 (220) @ 2200 rmp

Hydraulic pumps

Main pump and service pumps	lt/min	320 - 36 - 24 - 24
Max working pressure	MPa	30 - 25 - 16 - 5

Rotary head

Max torque	kNm	100 @ 35 MPa
Maximum drilling speed	rpm	40,9

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

Service winch

Controlled descent

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

Undercarriage

Overall length	mm	4660
Track shoe width	mm	700/900
Overall width (opened tracks)	mm	4000/4200
Overall width (closed tracks)	mm	2500/2900

Weights and dimensions

Transport width	mm	2550 / 2900
Transport height	mm	3254
Operating weight	ton	38
Transport weight	ton	32,5 / 33,2

** Emission Certification

USA EPA Tier 3

CARB Tier 3

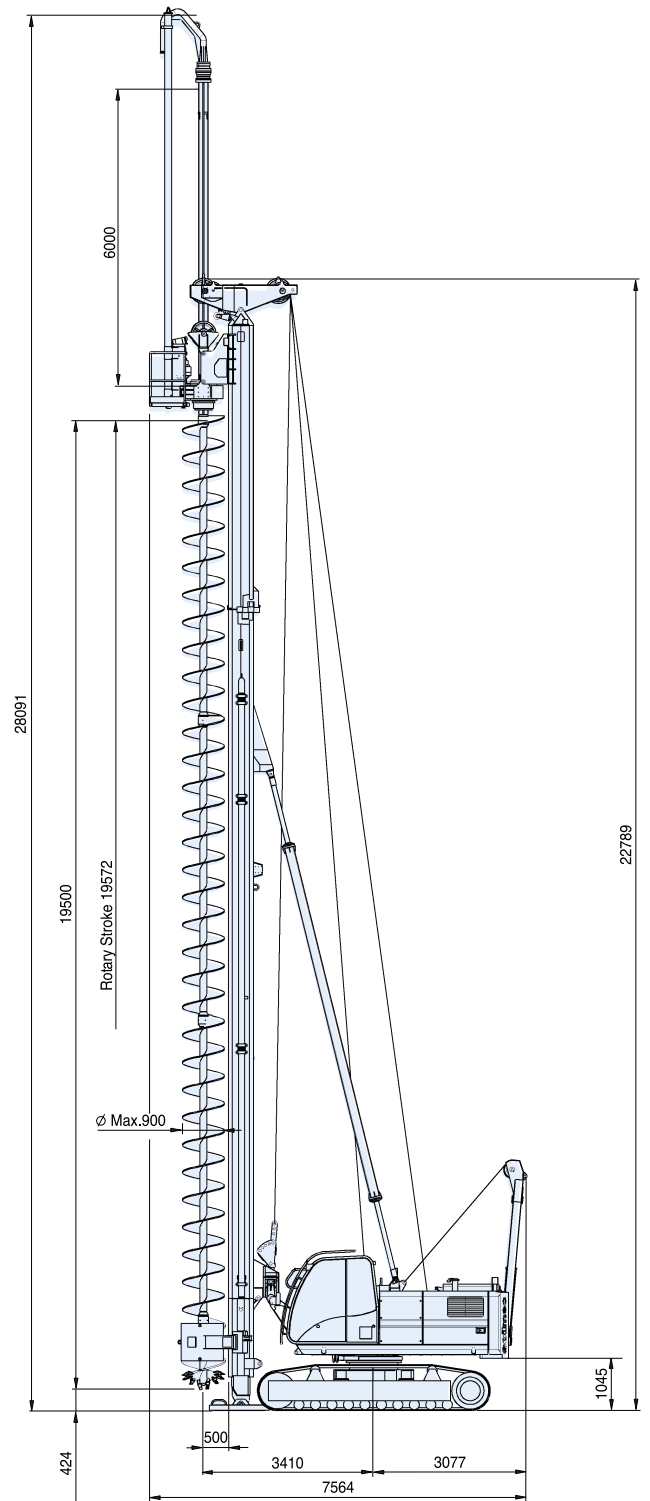
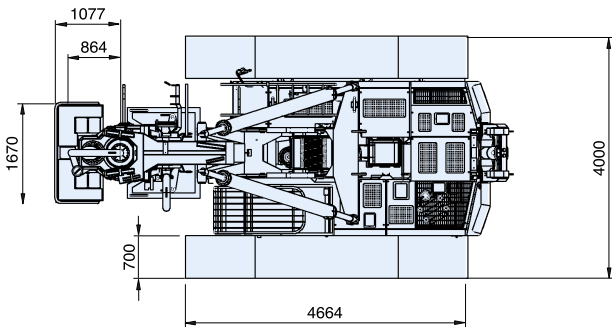
EU Stage III A

Options features:

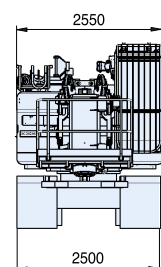
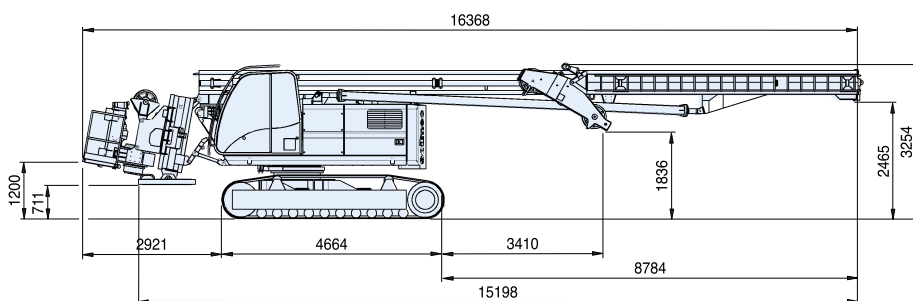
- Special mast foot to ease slewing over edge of tracks
- track shoes 900 mm wide
- pull-down winch (37 kN)
- two-axle electronic inclinometer in the cab
- electronic system to control the extraction pull; it is provided with visual and sound alarm in case of overloading
- ladder on mast
- 4" or 5" concrete pipework on the mast, supplied with insulation, upon request, for tropical climates
- VTH-1 vibrator power take off for cage driving.

SF-50

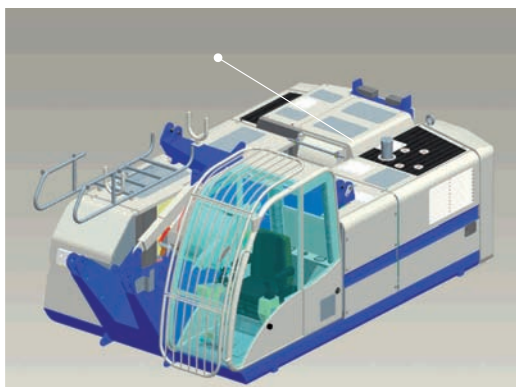
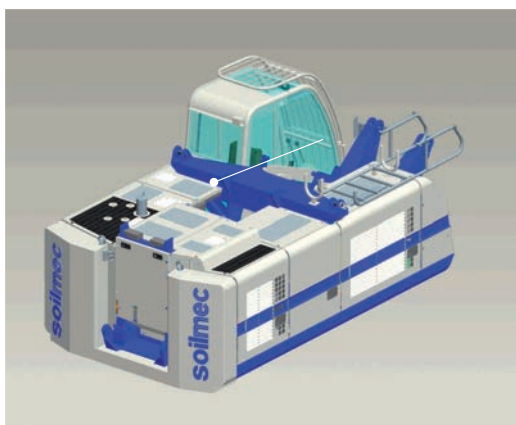
HYDRAULIC CFA ROTARY RIG



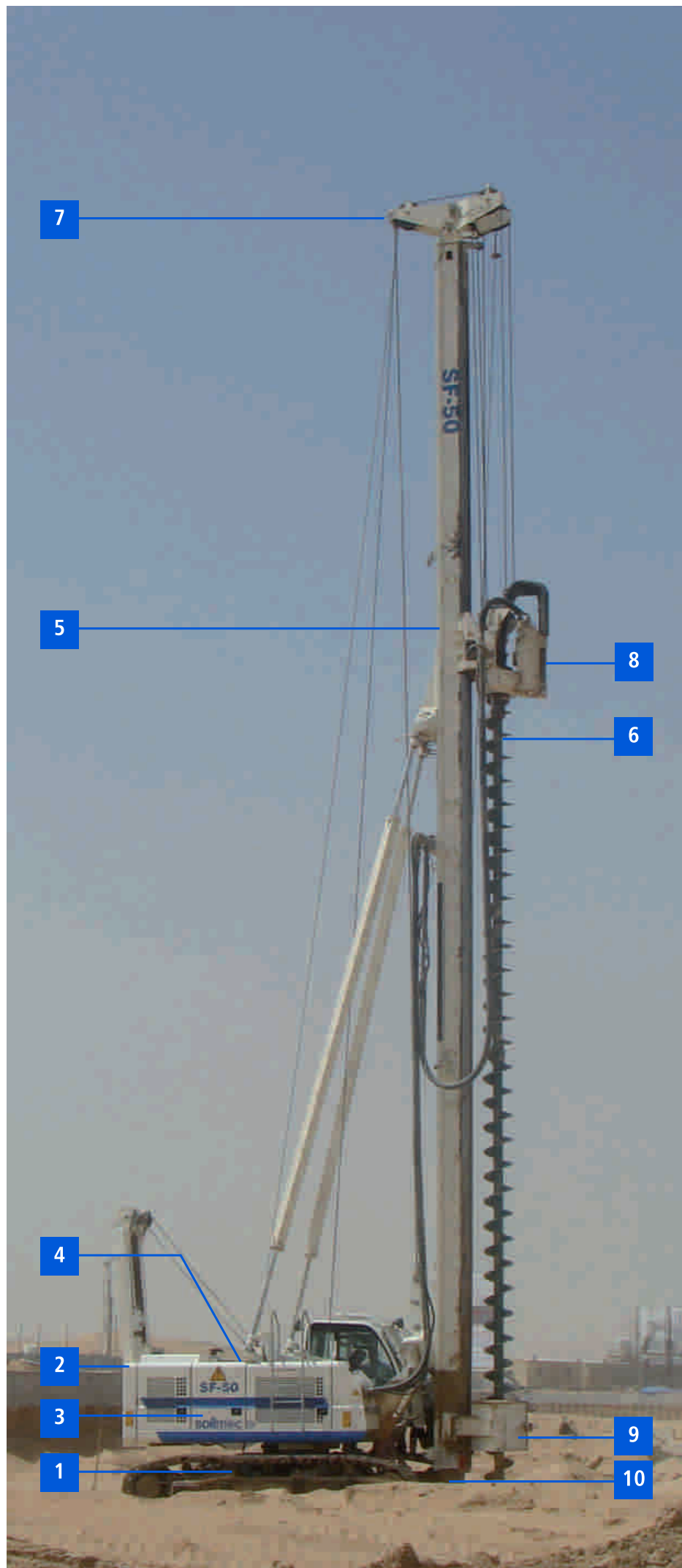
Transport Condition



- 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 - **Openable lower guide**
- 10 - **Foot element**



NEW TURRET SOILMEC Details





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. - Il Cairo - Egypt

SOILMEC (H.K.) Limited - Hong Kong

SOILMEC JAPAN CO LTD - Tokio - Japan

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

SOILMEC FAR EAST PTE.LTD - Singapore

SOILMEC ARABIA LLC - Jeddah - Saudi Arabia

SOILMEC EMIRATES - Dubai - U.A.E.

SOILMEC GULF - Dubai - U.A.E.

SOILMEC FRANCE S.A.S. - Paris - France

SOILMEC INDIA - Mumbai - India

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

SOILMEC DEUTSCHLAND GmbH - Drolshagen - Deutschland

SOILMEC NORTH AMERICA - Boston - USA

SOILMEC AUSTRALIA - Sydney - Australia

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.

soilmec 
Drilling and Foundation Equipment