

Hydraulic CFA Rotary Rig

# SF-50



# SF-50 Hydraulic CFA Rotary Rig

## APPLICATIONS



<b>Max pile diameter</b>	<b>900 mm</b>	<b>35.43 in</b>
<b>Max pile depth w/o auger cleaner</b>	<b>25 (19 + 6) m</b>	<b>82 (62 + 20) ft</b>
<b>Max pile depth with auger cleaner</b>	<b>23,5 m</b>	<b>77 ft</b>
<b>Max extraction force</b>	<b>510 kN</b>	<b>114651 lbf</b>
<b>Operating weight</b>	<b>39000 kg</b>	<b>85979 lb</b>

# SF-50 Hydraulic CFA Rotary Rig

## TECHNICAL DATA SHEET

<b>Engine</b>	<b>Cummins QSB6.7</b>	<i>Cummins QSB6.7</i>
- Rated output ISO 3046-I	<b>164 kW @ 2200 rpm</b>	<i>220 HP @ 2200 rpm</i>
- Engine conforms to Exhaust emission Standard	<b>EU stage III A, US EPA Tier 3</b>	<i>EU stage III A, US EPA Tier 3</i>
- Diesel tank capacity	<b>620 l</b>	<i>164 US gal</i>
- Sound pressure level in cabin (EN791 Annex A)	<b>75 dB (A)</b>	<i>75 dB (A)</i>
- Sound power level (2000/14EG u. EN791, Annex A)	<b>106 dB (A)</b>	<i>106 dB (A)</i>
<b>Hydraulic system</b>		
- Main pump	<b>320 l/min</b>	<i>85 US gal/min</i>
- Working pressure	<b>30 MPa</b>	<i>4351 psi</i>
- Auxiliary pumps	<b>24 - 24 - 36 l/min</b>	<i>6 - 6 - 10 US gal/min</i>
<b>Undercarriage</b> (retractable crawler frames)		
- Track shoes width	<b>700 mm</b>	<i>28 in</i>
- Overall width of crawlers retracted	<b>2500 mm</b>	<i>99 in</i>
- Overall width of crawlers extended	<b>4000 mm</b>	<i>158 in</i>
- Overall length of crawlers	<b>4660 mm</b>	<i>184 in</i>
- Traction force	<b>280 kN</b>	<i>62945 lbf</i>
- Travel speed	<b>2 km/h</b>	<i>1.2 mph</i>
<b>Rotary Drive</b>		
- Max torque (theoretical - restricted - intermittent)	<b>100 kNm</b>	<i>73755 lbf*ft</i>
- Rated torque (theoretical)	<b>87 kNm</b>	<i>64168 lbf*ft</i>
- Speed of rotation	<b>40,9 rpm</b>	<i>40.9 rpm</i>
<b>Crowd winch system</b> (optional)		
- Pull down force	<b>37 kN</b>	<i>8318 lbf</i>
- Stroke	<b>19572 mm</b>	<i>770.55 in</i>
- Rope diameter	<b>12 mm</b>	<i>0.47 in</i>
<b>Main winch</b>		
	<b>controlled descent</b>	<i>controlled descent</i>
- Line pull (1st layer)	<b>102 kN</b>	<i>22930 lbf</i>
- Rope diameter	<b>19 mm</b>	<i>0.75 in</i>
- Line speed (max.)	<b>67 m/min</b>	<i>220 ft/min</i>
<b>Auxiliary winch</b>		
	<b>controlled descent</b>	<i>controlled descent</i>
- Line pull (1st layer)	<b>41 kN</b>	<i>9217 lbf</i>
- Rope diameter	<b>16 mm</b>	<i>0.63 in</i>
- Line speed (max.)	<b>66 m/min</b>	<i>217 ft/min</i>
<b>Mast inclination</b>		
- Backward/Forward/Lateral	<b>10°/4°/3°</b>	<i>10°/4°/3°</i>

Soilmec integrates high quality level components: Gearmatic, Hydromatic, Lohmann, Rothe erde, Trasmital, Zollern.

## STANDARD EQUIPMENT

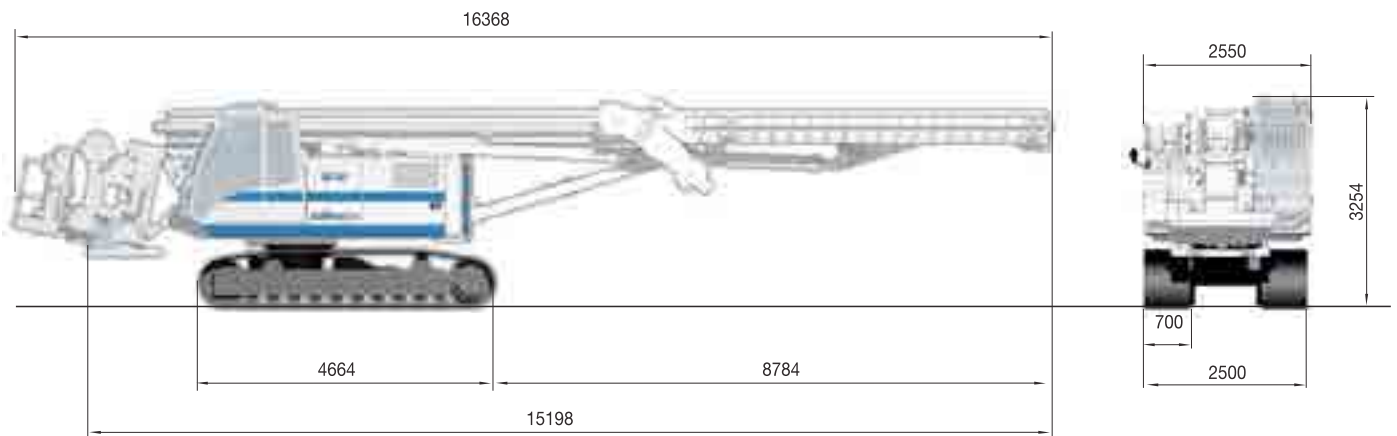
- Emergency mode of operation for engine
- Engine diagnostic system
- Diagnostic panel for hydraulic functions
- Transport securing lugs on crawler units
- Access ladder on upper carriage
- On-board lighting set
- On-board tool set
- Electric refuelling pump
- High-comfort operator's cab
- Protective roof grate (FOPS compliant)
- Air conditioning system
- Radio and CD player

## OPTIONAL EQUIPMENT

- BASE CARRIER
  - Biodegradable oil
- DRILLING EQUIPMENT
  - Swivel for auxiliary rope
  - Videocamera attachment
- Track shoes 900 mm wide
  - DMS system electronic monitoring and visualization system

# SF-50 Hydraulic CFA Rotary Rig

## TRANSPORT, DIMENSIONS AND WEIGHTS



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

Transport configuration		
Width	2550 mm	100 in
Length	16368 mm	644 in
Weight	30650 kg	67572 lb

Technical data sheet SF50-002 04/2014

This brochure has been edited and distributed by SOILMEC Spa. The present document cancels and override any previous ones. This brochure shall not be distributed, reproduced or exhibited without SOILMEC Spa. authorization in accordance with to SOILMEC web site disclaimer condition.

SOILMEC Spa distributes machinery and structures all over the world, supported by SOILMEC Spa subsidiary companies and dealers. The complete Soilmec network list is available on the web site [www.soilmec.it](http://www.soilmec.it)