

Hydraulic CFA Rotary Rig

SF-50



SF-50 Hydraulic CFA Rotary Rig

APPLICATIONS



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

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TECHNICAL DATA SHEET

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

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

STANDARD EQUIPMENT

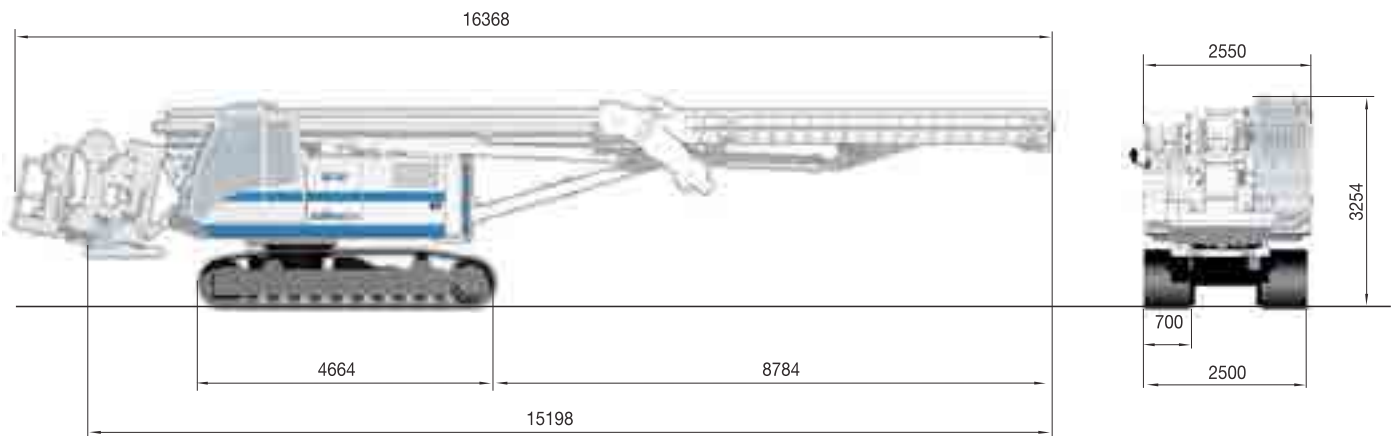
- Emergency mode of operation for engine
- Engine diagnostic system
- Diagnostic panel for hydraulic functions
- Transport securing lugs on crawler units
- Access ladder on upper carriage
- On-board lighting set
- On-board tool set
- Electric refuelling pump
- High-comfort operator's cab
- Protective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

OPTIONAL EQUIPMENT

- | | | |
|---|---|--|
| BASE CARRIER <ul style="list-style-type: none"> • Biodegradable oil | DRILLING EQUIPMENT <ul style="list-style-type: none"> • Swivel for auxiliary rope • Videocamera attachment | <ul style="list-style-type: none"> • Track shoes 900 mm wide • DMS system electronic monitoring and visualization system |
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TRANSPORT, DIMENSIONS AND WEIGHTS



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

Technical data sheet SF50-002 04/2014

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

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