

Hydraulic CFA Rotary Rig

SF-50



soilmec®
Drilling and Foundation Equipment

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

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

STANDARD EQUIPMENT

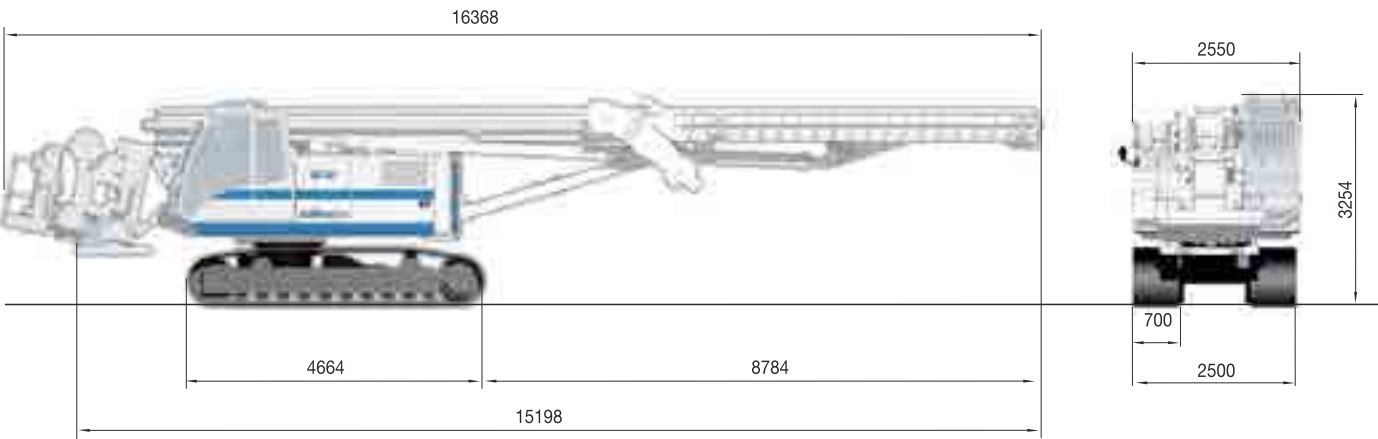
- Emergency mode of operation for engine
- Engine diagnostic system
- Diagnostic panel for hydraulic functions
- Transport securing lugs on crawler units
- Access ladder on upper carriage
- On-board lighting set
- On-board tool set
- Electric refuelling pump
- High-comfort operator's cab
- Protective 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

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TRANSPORT, DIMENSIONS AND WEIGHTS



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

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