

Hydraulic CFA Rotary Rig

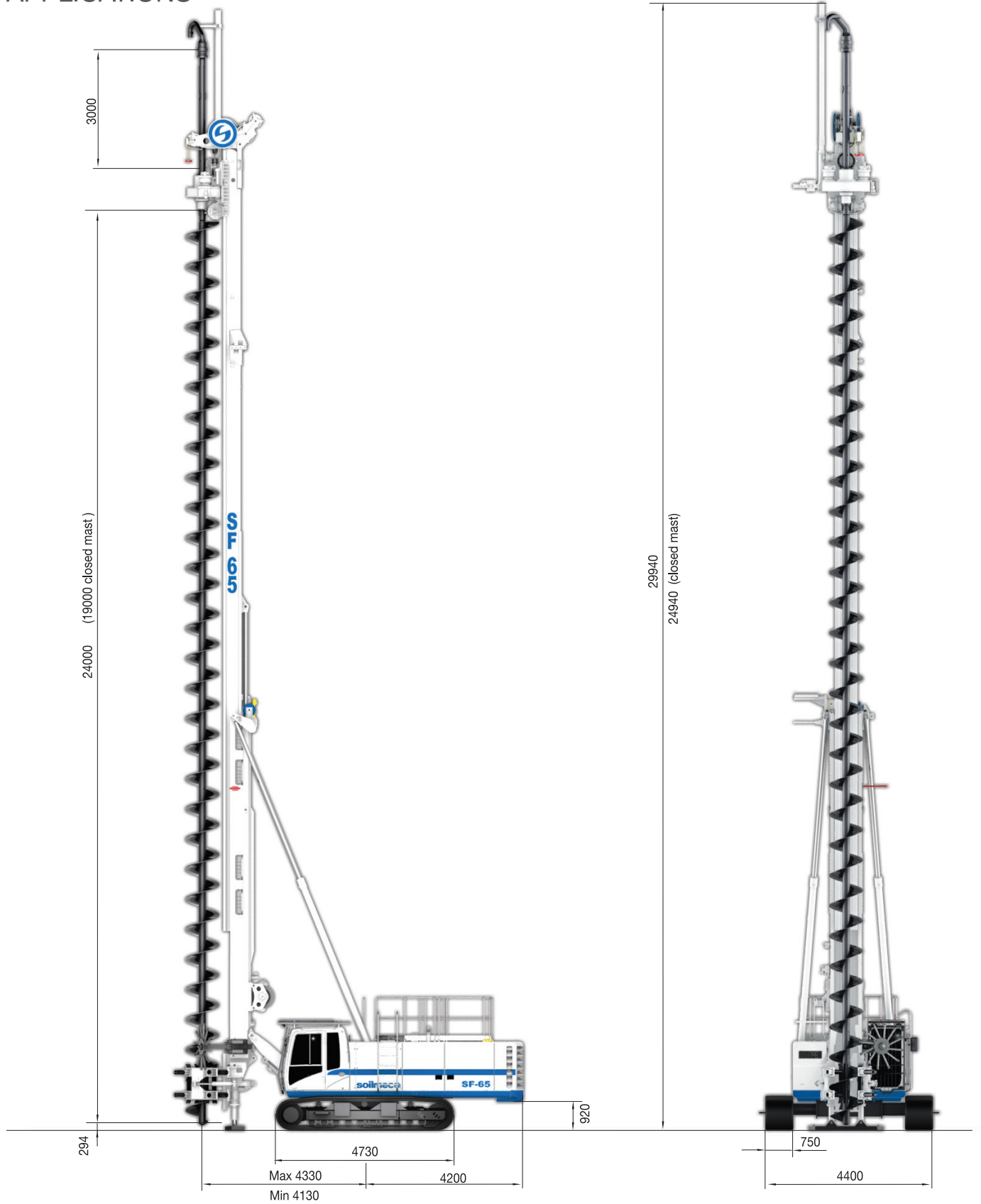
# SF-65



**soilmec**   
Drilling and Foundation Equipment

# SF-65 Hydraulic CFA Rotary Rig

## APPLICATIONS



| CFA - Continuous Flight Auger           |           |           |
|---|-----------|-----------|
| Operating weight w/o auger              | 51500 kg  | 113538 lb |
| Auger cleaner                           | star type | star type |
| Max pile diameter                       | 1000 mm   | 39.4 in   |
| Max pile depth w/o auger extension      | 24 m      | 79 ft     |
| Max pile depth with 6 m auger extension | 30 m      | 98 ft     |
| Max extraction force                    | 572 kN    | 128500 lb |

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## TECHNICAL DATA SHEET

|   |                                    |                                    |
|---|------------------------------------|------------------------------------|
| <b>Rotary Drive</b>                               |                                    |                                    |
| - Max torque (intermittent)                       | <b>165 kNm</b>                     | 121698 lbf*ft                      |
| - Rated torque                                    | <b>151 kNm</b>                     | 110600 lbf*ft                      |
| - Speed of rotation                               | <b>31 rpm</b>                      | 31 rpm                             |
| <b>Main winch</b>                                 | <b>controlled descent</b>          | <i>controlled descent</i>          |
| - Line pull (1st layer)                           | <b>143 kN</b>                      | 32100 lbf                          |
| - Rope diameter                                   | <b>22 mm</b>                       | 0.87 in                            |
| - Line speed (max.)                               | <b>68 m/min</b>                    | 223 ft/min                         |
| <b>Auxiliary winch</b>                            | <b>controlled descent</b>          | <i>controlled descent</i>          |
| - Line pull (1st layer)                           | <b>65 kN</b>                       | 14600 lbf                          |
| - Rope diameter                                   | <b>18 mm</b>                       | 0.71 in                            |
| - Line speed (max.)                               | <b>67 m/min</b>                    | 220 ft/min                         |
| <b>Pull down winch</b>                            | <b>optional</b>                    | <i>optional</i>                    |
| - Pull down force                                 | <b>97 kN</b>                       | 21800 lbf                          |
| - Rope diameter                                   | <b>16 mm</b>                       | 0.63 in                            |
| <b>Engine</b>                                     | <b>CUMMINS B6.7</b>                | <i>CUMMINS B6.7</i>                |
| - Rated output ISO 3046-I                         | <b>209 kW @ 2000 rpm</b>           | 280 HP @ 2000 rpm                  |
| - Engine conforms to Exhaust emission Standard    | <b>EU stage V / US EPA Tier 4f</b> | <i>EU stage V / US EPA Tier 4f</i> |
| - Diesel tank capacity                            | <b>385 l</b>                       | 102 US gal                         |
| <b>Hydraulic system</b>                           |                                    |                                    |
| - Main pump                                       | <b>520 l/min</b>                   | 137 US gal/min                     |
| - Auxiliary pump flow                             | <b>150 l/min</b>                   | 40 gal/min                         |
| - Hydraulic oil tank capacity                     | <b>895 l</b>                       | 236 US gal                         |
| <b>Undercarriage (retractable crawler frames)</b> |                                    |                                    |
| - Track shoes width                               | <b>750 mm</b>                      | 30 in                              |
| - Overall width of crawlers retracted             | <b>2980 mm</b>                     | 117 in                             |
| - Overall width of crawlers extended              | <b>4440 mm</b>                     | 175 in                             |
| - Overall length of crawlers                      | <b>4730 mm</b>                     | 186 in                             |
| - Traction force                                  | <b>294 kN</b>                      | 66094 lbf                          |
| - Travel speed                                    | <b>1,4 km/h</b>                    | 0.9 mph                            |

\* Soilmec integrates high quality level components: Berco, Rexroth, Trasmital.

## STANDARD EQUIPMENT

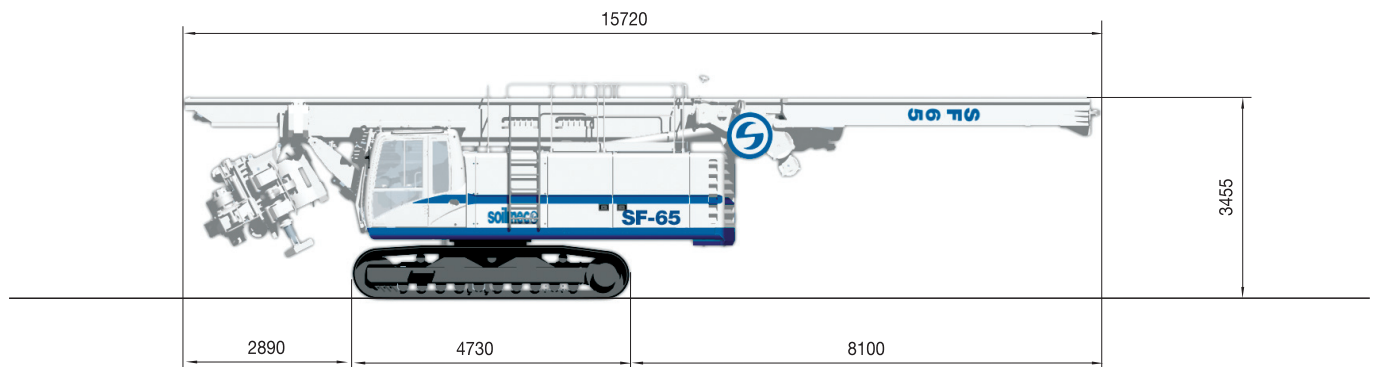
- Emergency mode of operation for engine
- Engine diagnostic system
- Diagnostic panel for hydraulic functions
- Transport securing lugs on crawler units
- Access ladder on upper carriage
- Hydraulic openable
- Lower guide
- On-board lighting set
- On-board tool set
- Electric refuelling pump
- 360° turret rotations
- Concrete pipe alongside the mast foot
- High-comfort operator's H-CAB
- Protective roof grate (FOPS compliant)
- Air conditioning system
- Radio and CD player

## OPTIONAL EQUIPMENT

- |  |  |   |
|--|--|---|
| <b>BASE CARRIER</b> <ul style="list-style-type: none"> <li>• Central lubrication system</li> <li>• Biodegradable oil</li> <li>• Handrails for upper structure</li> </ul> | <ul style="list-style-type: none"> <li>• Radio control for tramming</li> <li>• Pressurized air conditioning system</li> <li>• Turret area guard</li> <li>• EU stage IIIA, US EPA Tier 3 diesel engine</li> </ul> | <b>DRILLING EQUIPMENT</b> <ul style="list-style-type: none"> <li>• Swivel for auxiliary rope</li> <li>• Videocamera attachment</li> </ul> |
|--|--|---|

# SF-65 Hydraulic CFA Rotary Rig

## TRANSPORT, DIMENSIONS AND WEIGHTS



| Transport configuration                              |          |           |
|--|----------|-----------|
| Width  | 2980 mm  | 117.3 in  |
| Length   | 15720 mm | 619 in    |
| Weight   | 50000 kg | 110231 lb |
| Minimum transport weight (w/o counterweight, rotary) | 36500 kg | 80469 lb  |

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