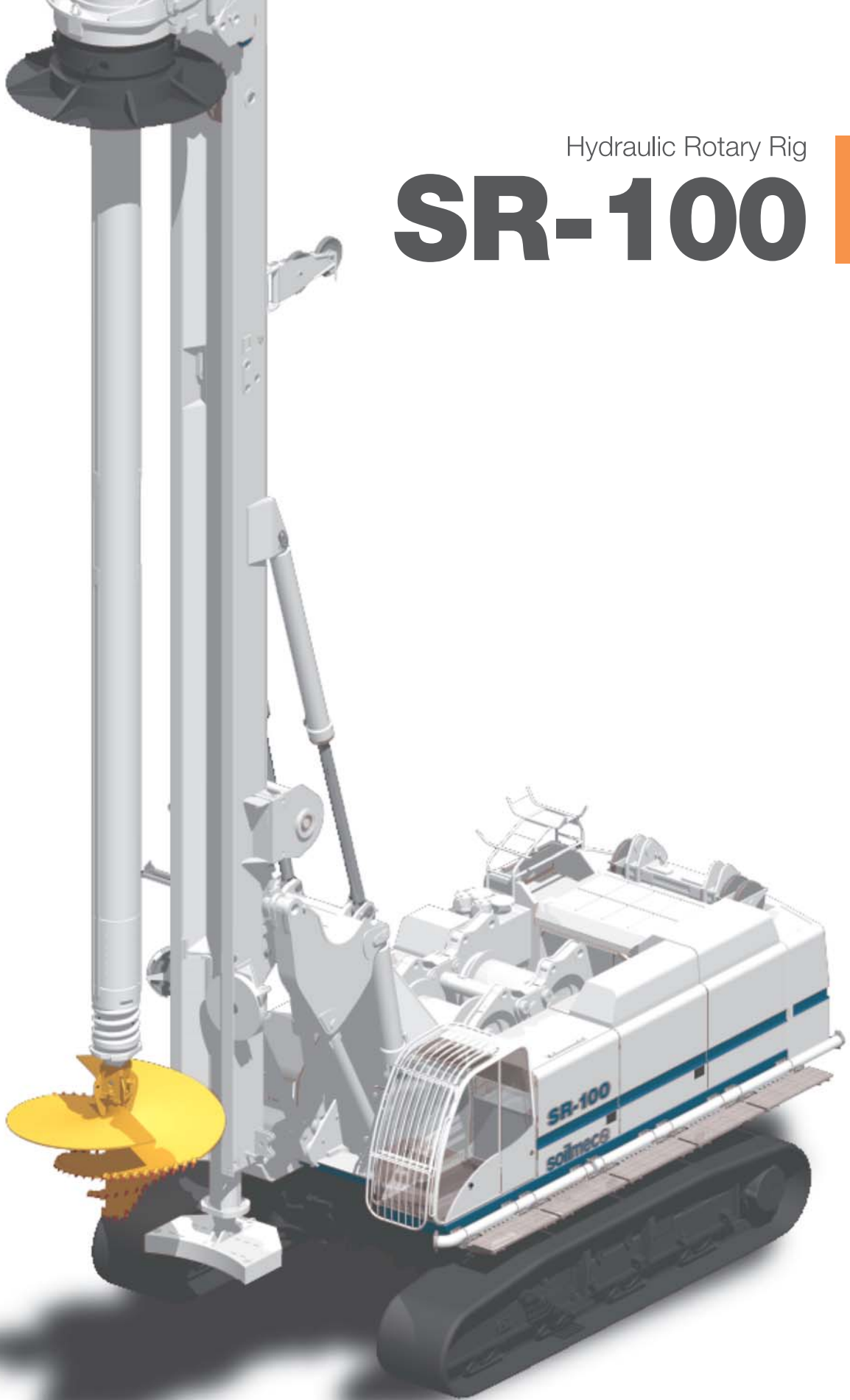


Hydraulic Rotary Rig

SR-100



soilmecce
Drilling and Foundation Equipment

SR-100 Hydraulic Rotary Rig

LDP APPLICATIONS



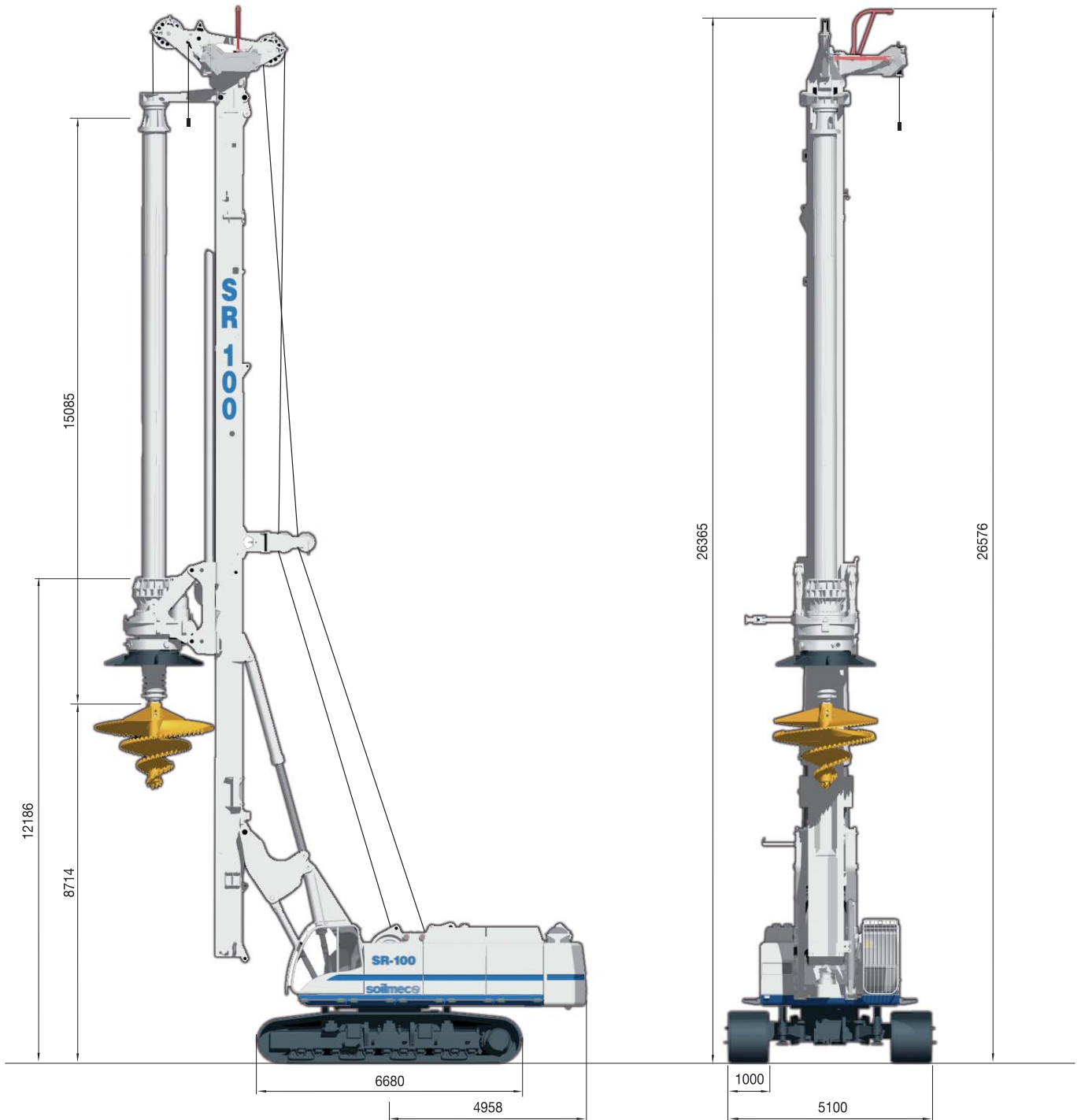
LDP - Large Diameter Piles - WCS version

| | | |
|--|-----------------------|-----------------------|
| Operating weight c/w 4x13,5 kelly bar | 149000 kg | 328485 lb |
| Max pile diameter | 3000 (3500) mm | 118 (137.8) in |
| Max pile depth - friction kelly | 92 m | 301.8 ft |
| Max pile depth - locking kelly | 85 m | 277 ft |

(*) tool below mast

SR-100 Hydraulic Rotary Rig

LDP APPLICATIONS



LDP - Large Diameter Piles - CCS version

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(*) tool below mast

SR-100 Hydraulic Rotary Rig

TECHNICAL DATA SHEET

| | | |
|--|--|--|
| Rotary drive | | |
| - Max torque (theoretical - restricted - intermittent) | 452 kN | 333372 lbf*ft |
| - Rated torque (theoretical) | 413 kN | 304608 lbf*ft |
| - Speed of rotation | 30,7 rpm | 30.7 rpm |
| - Spin-off speed | 65 rpm | 65 rpm |
| CCS - Cylinder crowd system | | |
| - Crowd force pull (down/up) | 330/417 kN | 74186/93744 lbf |
| - Stroke | 7650 mm | 301 in |
| - Speed up | 2,9/12,4 m/min | 9.5/40.7 ft/min |
| - Fast speed down | 9,6/12,4 m/min | 31.5/40.7 ft/min |
| WCS - Winch crowd system | | |
| - Crowd force pull (down/up) | 460/460 kN | 103410/103410 lbf |
| - Stroke | 18000 mm | 709 in |
| - Speed up | 8,3/19,5 m/min | 27.2/64 ft/min |
| - Fast speed down | 19,5/19,5 m/min | 64/64 ft/min |
| Main winch | | |
| | Control descent | <i>Control descent</i> |
| - Line pull (1st layer) | 370 kN | 83178 lbf |
| - Rope diameter | 34 mm | 1.34 in |
| - Line speed (max.) | 68 m/min | 223 ft/min |
| Auxiliary winch | | |
| | Control descent | <i>Control descent</i> |
| - Line pull (1st layer) | 145 kN | 32597 lbf |
| - Rope diameter | 26 mm | 1.02 in |
| - Line speed (max.) | 90 m/min | 295 ft/min |
| Engine | | |
| | Deutz TCD2015-V08 | <i>Deutz TCD2015-V08</i> |
| - Rated output ISO 3046-I | 480 kW @ 1900 rpm | 643 HP @ 1900 rpm |
| - Engine conforms to Exhaust emission Standard | EU stage III A, EPA CARB Tier 3 | <i>EU stage III A, EPA CARB Tier 3</i> |
| - Diesel tank capacity | 865 l | 229 US gal |
| - Sound pressure level in cabin (EN791 Annex A) | 79 dB (A) | 79 dB (A) |
| - Sound power level (2000/14EG u, EN791, Annex A) | 117 dB (A) | 117 dB (A) |
| Hydraulic system | | |
| - Hydraulic pressure rated | 320 bar | 4641 psi |
| - Flow rates (main circuits) | 2x 405 l/min | 2x 107 US gal/min |
| - Hydraulic oil tank capacity | 990 l | 262 US gal |
| Undercarriage (retractable crawler frames) | | |
| - Overall width of crawlers retracted/extended | 3500/5100 mm | 138/200 in |
| - Overall width (removed side frames) | 2980 mm | 117 in |
| - Width of triple grouser track shoes | 1000 mm | 39 in |
| - Overall length of crawlers | 6680 mm | 263 in |
| - Traction force | 955,4 kN | 214779 lbf |
| - Travel speed | 1,6 km/h | 1 mph |
| Mast inclination (backward/ forward/lateral) | 5°/4°/3° | <i>5°/4°/3°</i> |

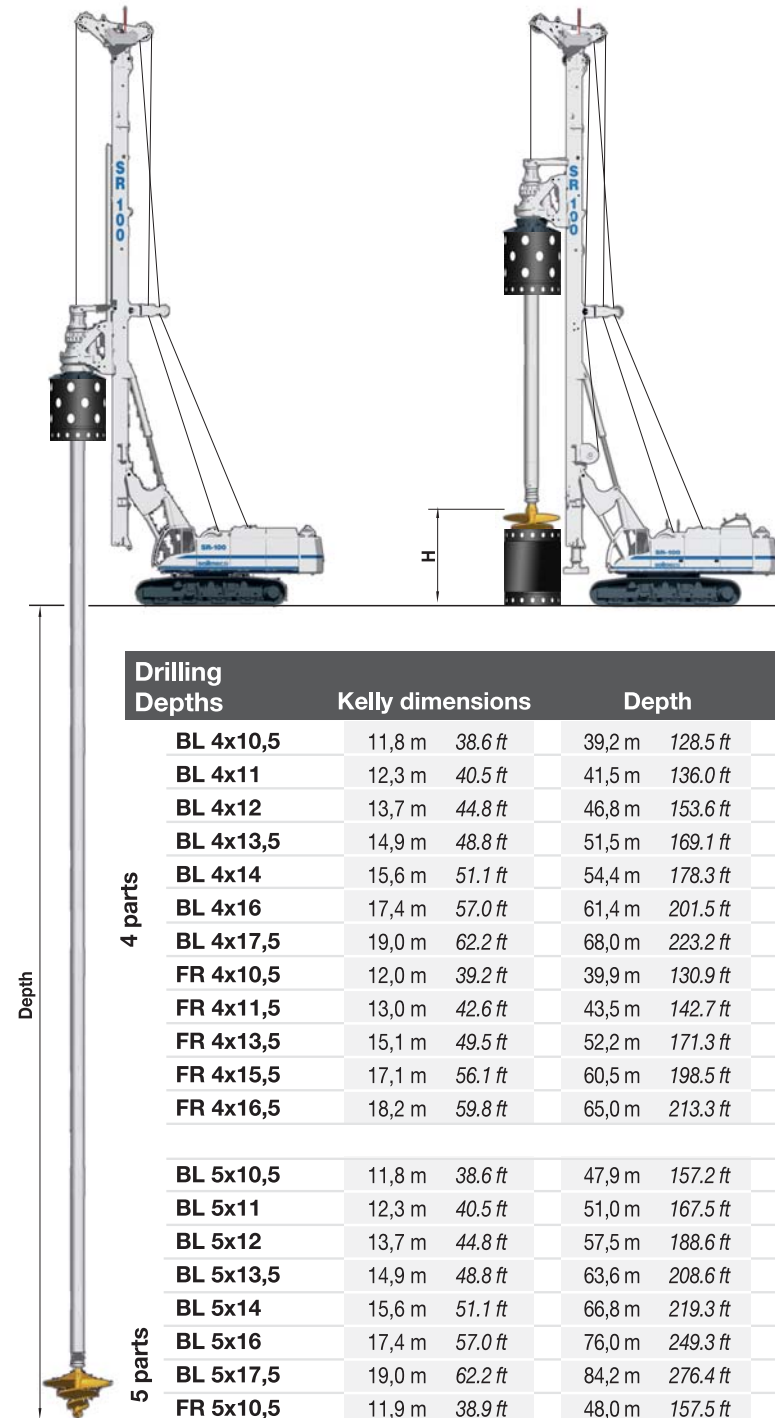
STANDARD EQUIPMENT

- Independent rotaries
- Main and auxiliary winch controlled descent type with special grooving
- Hoist limit switch on main rope
- Service rope parking point
- DMS system electronic monitoring and visualization system
- Mast inclination measurement on X/Y axes (digital/analog display)
- Automatic vertical mast alignment
- Depth measuring device on main winch
- Speed measuring device on rotary
- Oscillator attachment brackets
- Central lubrication system
- Emergency mode of operation for engine
- Engine diagnostic system
- Diagnostic panel for hydraulic functions
- Removable counterweight
- Removable crawler side frames
- 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
- GSM-GPRS-GPS modem
- Videocamera set
- 4th Winch (400kN)

OPTIONAL EQUIPMENT

- Biodegradable oil
- Freefall auxiliary winch
- Swivel for auxiliary rope
- Double roller auger cleaner
- VTH-1 vibrator
- Main winch load cell
- Air assisted auger drilling

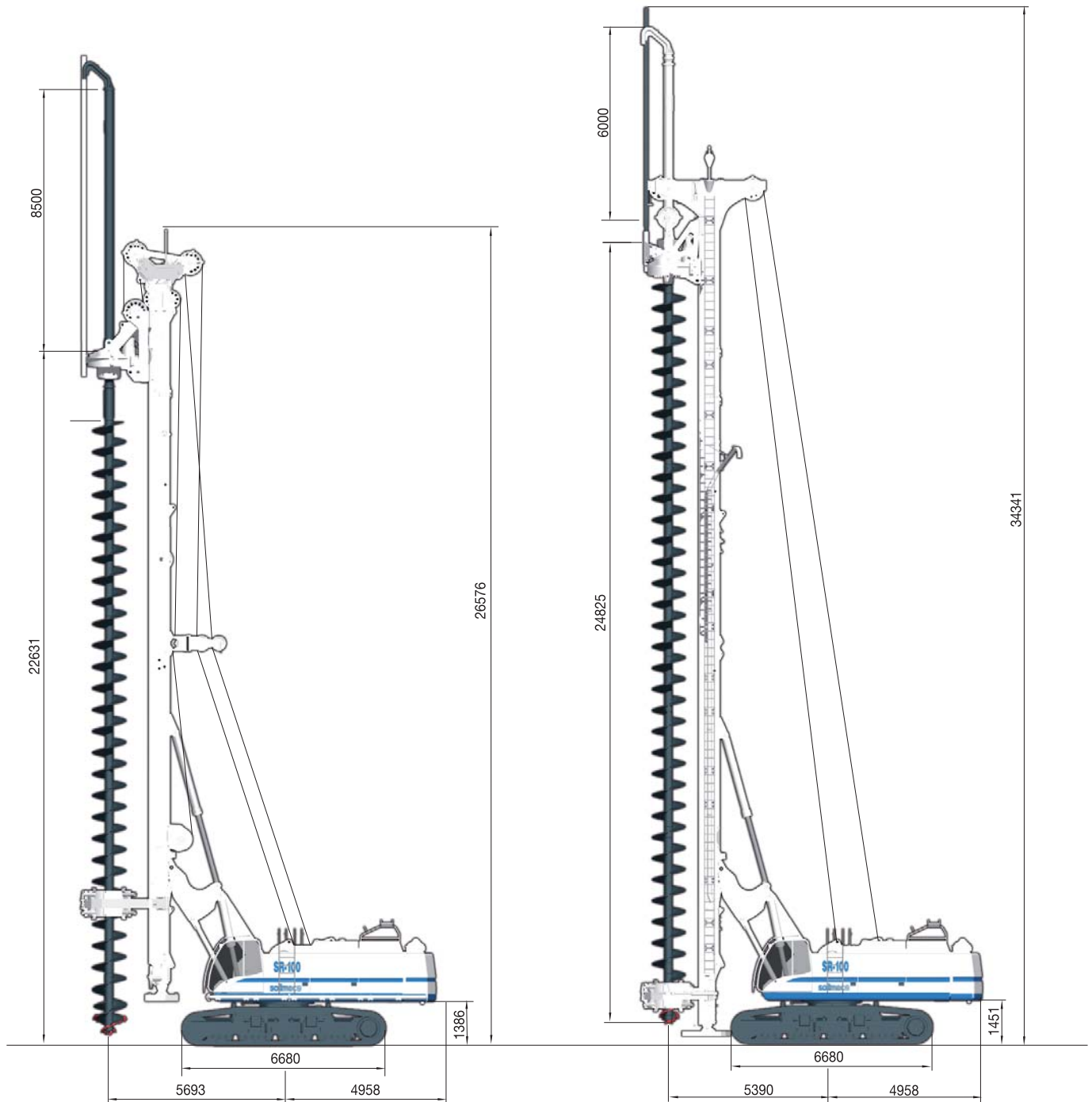
SR-100 Hydraulic Rotary Rig KELLY DRILLING SYSTEM



| Drilling Depths | Kelly dimensions | | Depth | | Weight | | CCS SYSTEM | | WCS SYSTEM | |
|-----------------|------------------|-----------------|-------------------|-------------------|----------------|----------------|------------|----------------|----------------|---|
| | | | | | | | H | H | H | H |
| 4 parts | BL 4x10,5 | 11,8 m 38.6 ft | 39,2 m 128.5 ft | 8600 kg 18959 lb | 10,0 m 32.8 ft | 12,1 m 39.7 ft | 10,0 m | 32.8 ft | 11,5 m 37.7 ft | |
| | BL 4x11 | 12,3 m 40.5 ft | 41,5 m 136.0 ft | 8900 kg 19621 lb | 10,0 m 32.8 ft | 11,5 m 37.7 ft | 10,0 m | 32.8 ft | 10,2 m 33.3 ft | |
| | BL 4x12 | 13,7 m 44.8 ft | 46,8 m 153.6 ft | 9600 kg 21164 lb | 10,0 m 32.8 ft | 10,2 m 33.3 ft | 10,0 m | 32.8 ft | 9,0 m 29.4 ft | |
| | BL 4x13,5 | 14,9 m 48.8 ft | 51,5 m 169.1 ft | 10500 kg 23148 lb | 9,0 m 29.4 ft | 9,0 m 29.4 ft | 9,0 m | 29.4 ft | 8,3 m 27.1 ft | |
| | BL 4x14 | 15,6 m 51.1 ft | 54,4 m 178.3 ft | 10800 kg 23810 lb | 8,3 m 27.1 ft | 8,3 m 27.1 ft | 8,3 m | 27.1 ft | 6,5 m 21.2 ft | |
| | BL 4x16 | 17,4 m 57.0 ft | 61,4 m 201.5 ft | 12000 kg 26455 lb | 6,5 m 21.2 ft | 6,5 m 21.2 ft | 6,5 m | 21.2 ft | 4,9 m 15.9 ft | |
| | BL 4x17,5 | 19,0 m 62.2 ft | 68,0 m 223.2 ft | 13000 kg 28660 lb | 4,9 m 15.9 ft | 4,9 m 15.9 ft | 4,9 m | 15.9 ft | 11,9 m 39.0 ft | |
| | FR 4x10,5 | 12,0 m 39.2 ft | 39,9 m 130.9 ft | 8621 kg 19005 lb | 10,0 m 32.8 ft | 11,9 m 39.0 ft | 10,0 m | 32.8 ft | 10,9 m 35.6 ft | |
| | FR 4x11,5 | 13,0 m 42.6 ft | 43,5 m 142.7 ft | 9242 kg 20374 lb | 10,0 m 32.8 ft | 10,9 m 35.6 ft | 10,0 m | 32.8 ft | 8,8 m 28.7 ft | |
| | FR 4x13,5 | 15,1 m 49.5 ft | 52,2 m 171.3 ft | 10484 kg 23112 lb | 8,8 m 28.7 ft | 8,8 m 28.7 ft | 8,8 m | 28.7 ft | 6,8 m 22.1 ft | |
| | FR 4x15,5 | 17,1 m 56.1 ft | 60,5 m 198.5 ft | 11726 kg 25850 lb | 6,8 m 22.1 ft | 6,8 m 22.1 ft | 6,8 m | 22.1 ft | 5,6 m 18.4 ft | |
| | FR 4x16,5 | 18,2 m 59.8 ft | 65,0 m 213.3 ft | 12347 kg 27219 lb | 5,6 m 18.4 ft | 5,6 m 18.4 ft | 5,6 m | 18.4 ft | | |
| 5 parts | BL 5x10,5 | 11,8 m 38.6 ft | 47,9 m 157.2 ft | 9900 kg 21825 lb | 10,0 m 32.8 ft | 12,1 m 39.7 ft | 10,0 m | 32.8 ft | 11,5 m 37.7 ft | |
| | BL 5x11 | 12,3 m 40.5 ft | 51,0 m 167.5 ft | 10300 kg 22707 lb | 10,0 m 32.8 ft | 11,5 m 37.7 ft | 10,0 m | 32.8 ft | 10,2 m 33.3 ft | |
| | BL 5x12 | 13,7 m 44.8 ft | 57,5 m 188.6 ft | 11000 kg 24250 lb | 10,0 m 32.8 ft | 10,2 m 33.3 ft | 10,0 m | 32.8 ft | 9,0 m 29.4 ft | |
| | BL 5x13,5 | 14,9 m 48.8 ft | 63,6 m 208.6 ft | 12200 kg 26896 lb | 9,0 m 29.4 ft | 9,0 m 29.4 ft | 9,0 m | 29.4 ft | 8,3 m 27.1 ft | |
| | BL 5x14 | 15,6 m 51.1 ft | 66,8 m 219.3 ft | 12600 kg 27778 lb | 8,3 m 27.1 ft | 8,3 m 27.1 ft | 8,3 m | 27.1 ft | 6,5 m 21.2 ft | |
| | BL 5x16 | 17,4 m 57.0 ft | 76,0 m 249.3 ft | 14100 kg 31085 lb | 6,5 m 21.2 ft | 6,5 m 21.2 ft | 6,5 m | 21.2 ft | 4,9 m 15.9 ft | |
| | BL 5x17,5 | 19,0 m 62.2 ft | 84,2 m 276.4 ft | 15300 kg 33730 lb | 4,9 m 15.9 ft | 4,9 m 15.9 ft | 4,9 m | 15.9 ft | 12,0 m 39.2 ft | |
| | FR 5x10,5 | 11,9 m 38.9 ft | 48,0 m 157.5 ft | 9869 kg 21757 lb | 10,0 m 32.8 ft | 12,0 m 39.2 ft | 10,0 m | 32.8 ft | 10,9 m 35.6 ft | |
| | FR 5x11,5 | 13,0 m 42.6 ft | 53,0 m 173.9 ft | 10647 kg 23472 lb | 10,0 m 32.8 ft | 10,9 m 35.6 ft | 10,0 m | 32.8 ft | 8,8 m 28.7 ft | |
| | FR 5x13,5 | 15,1 m 49.5 ft | 64,5 m 211.6 ft | 12203 kg 26903 lb | 8,8 m 28.7 ft | 8,8 m 28.7 ft | 8,8 m | 28.7 ft | 6,8 m 22.1 ft | |
| | FR 5x15,5 | 17,1 m 56.1 ft | 74,9 m 245.7 ft | 13759 kg 30333 lb | 6,8 m 22.1 ft | 6,8 m 22.1 ft | 6,8 m | 22.1 ft | 5,6 m 18.4 ft | |
| | FR 5x16,5 | 18,2 m 59.8 ft | 80,2 m 263.1 ft | 14537 kg 32048 lb | 5,6 m 18.4 ft | 5,6 m 18.4 ft | 5,6 m | 18.4 ft | | |
| FR 6x10,5 | 11,9 m 38.9 ft | 57,5 m 188.6 ft | 10610 kg 23390 lb | 10,0 m 32.8 ft | 12,0 m 39.2 ft | 10,0 m | 32.8 ft | 10,9 m 35.6 ft | | |
| 6 parts | FR 6x11,5 | 13,0 m 42.6 ft | 63,5 m 208.3 ft | 11449 kg 25239 lb | 10,0 m 32.8 ft | 10,9 m 35.6 ft | 10,0 m | 32.8 ft | 8,8 m 28.9 ft | |
| | FR 6x13,5 | 15,0 m 49.3 ft | 76,0 m 249.3 ft | 13127 kg 28938 lb | 8,8 m 28.9 ft | 8,8 m 28.9 ft | 8,8 m | 28.9 ft | 6,9 m 22.5 ft | |
| | FR 6x15,5 | 17,0 m 55.8 ft | 88,0 m 288.7 ft | 14805 kg 32638 lb | 6,9 m 22.5 ft | 6,9 m 22.5 ft | 6,9 m | 22.5 ft | 5,9 m 19.2 ft | |
| | FR 6x16,5 | 18,0 m 59.1 ft | 93,5 m 306.8 ft | 15644 kg 34487 lb | 5,9 m 19.2 ft | 5,9 m 19.2 ft | 5,9 m | 19.2 ft | | |

SR-100 Hydraulic Rotary Rig

CFA APPLICATIONS QUICK CONVERSION KIT 4° line pull



| CFA - Continuous Flight Auger | combined line pull | | 4-part line pull | |
|---------------------------------------|--------------------|---------------------|------------------|----------------------|
| Auger extension | 8,5 m | 27.9 ft | 6 m | 19.7 ft |
| Drilling depth with auger cleaner | 25,5 m (17+8,5) | 83.7 ft (55.8+27.9) | 29 m (23+6) | 95.1 ft (75,4+19.7) |
| Drilling depth without auger cleaner | 27 m (18,5+8,5) | 88.6 ft (60.7+27.9) | 30,5 m (24,5+6) | 100.1 ft (80.4+19.7) |
| Max drilling diameter | 1400 mm | 55.1 in | 1400 mm | 55.1 in |
| Max extraction force nominal | 1140 kN | 256278 lbf | 1480 kN | 332711 lbf |
| Max crowd force nominal | 440 kN* | 98914 lbf* | 440 kN* | 98914 lbf * |
| Operating weight (approx. w/o augers) | 130000 kg | 286600 lb | 130000 kg | 286600 lb |

* Option: max depth reduced by 1.5 m

SR-100 Hydraulic Rotary Rig

CAP/CSP APPLICATIONS 4° line pull

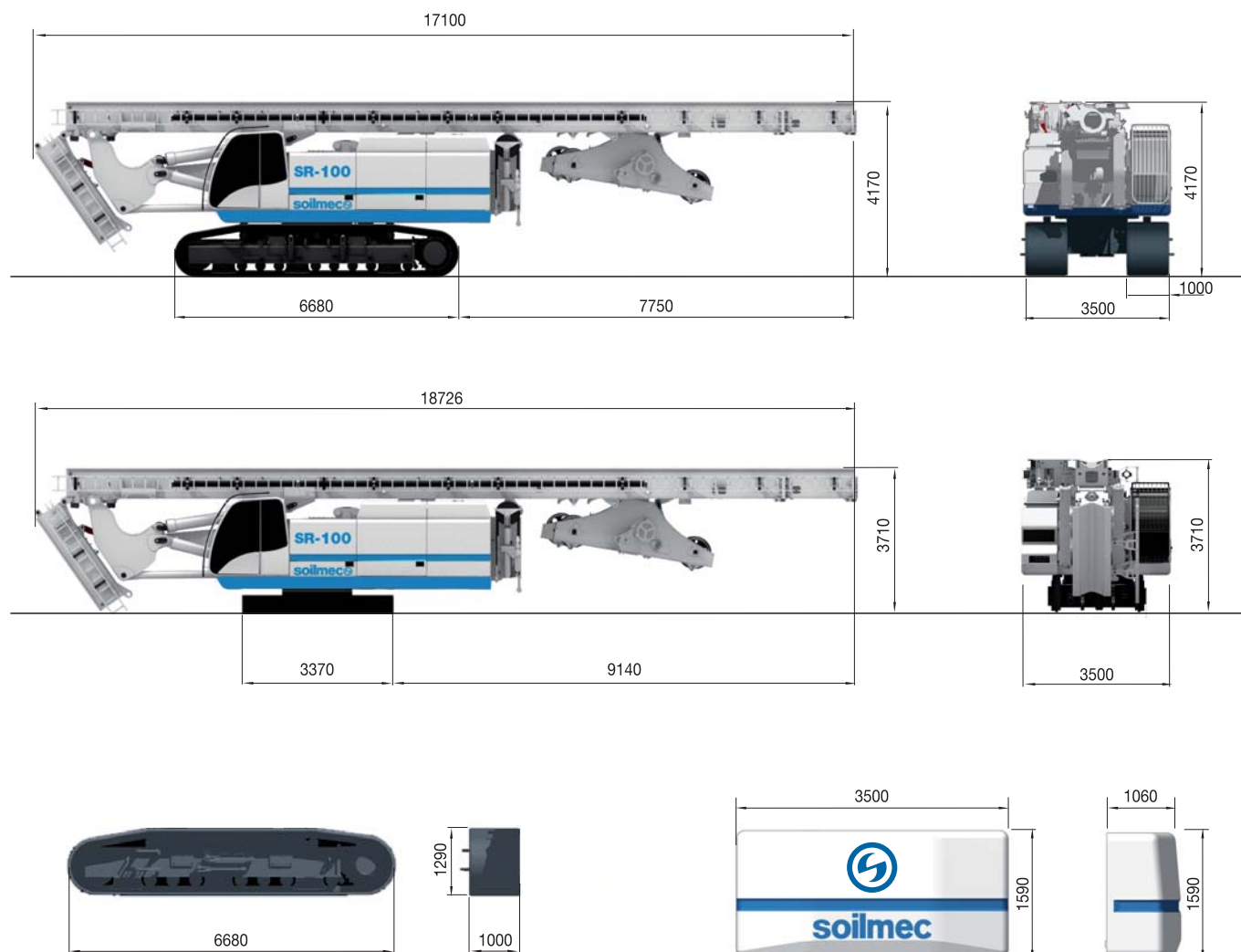


CAP/CSP - Cased Augered & Secant Piles - 4° Line pull

| | | |
|---|-----------|-----------|
| Operating weight (c/w auger, casing and spoil discharge system) | 165000 kg | 363759 lb |
| Max drilling diameter | 1200 mm | 47.24 in |
| Max pile depth c/w auger cleaner | 28 m | 91.86 ft |
| Max cased depth w/o auger cleaner | 21 m | 68.90 ft |
| Max cased depth c/w auger cleaner | 19,4 m | 63.69 ft |

SR-100 Hydraulic Rotary Rig

TRANSPORT, DIMENSIONS AND WEIGHTS



| Transport configuration | | |
|--------------------------|----------------|------------|
| Width | 3500 mm | 137.8 in |
| Height w/o side frames | 4170 / 3710 mm | 164/146 in |
| Length | 17100 mm | 673 in |
| Weight | 103000 kg | 227076 lb |
| Minimum transport weight | 75400 kg | 166228 lb |

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