



SR-125

BLUE TECH 

soilmec 
Drilling and Foundation Equipment

Customized
to your needs.



CSP technology.

Two different packages.

Maximum depth:

32 m (105 ft) of auger depth – 25,8 m (84.6 ft) cased depth – 900 mm (36 in) diameter

Maximum diameter:

1200 mm (47 in) – 28 m (91.9 ft) of auger depth – 21,8 (71.5 ft) cased depth.

Electric
power
cases

Drive system.

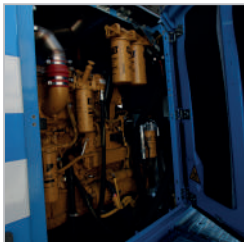
Our challenge:
uncompromised performance and efficiency
with low consumption and emission.

To achieve these results, our rig has been equipped with a powerful CAT C18 Acert (470 kW - 630 HP) and a complete package of innovations including the "start & slow" system, a new control of the radiators and its air flows.

All configurations have a continuous fan control system that automatically adjust the speed according to needs, reducing fuel consumption and noise.

The SR-125 whole project aims at reducing noise emissions and easing maintenance by means of: hydraulically driven radiators, new canopy design in the area close to the engine, optimization of the sound-absorbing materials, special care in the air flow controls and specific attention on the parts subject to vibrations.

The combination of all these solutions guarantees the lowest noise in its segment with values LwA and LpA of 109 dB and 78 dB for all available engines.



Environment starts from safety.

Safety is Soilmec's top priority. We constantly enhance product design and we're doing our best to help you meet your safety goals and create safe working environments. We consider the safety of everyone in, on or around Soilmec equipment when developing new products or enhancing safety features for existing products. Our equipment has several safety features such as but not limited to:

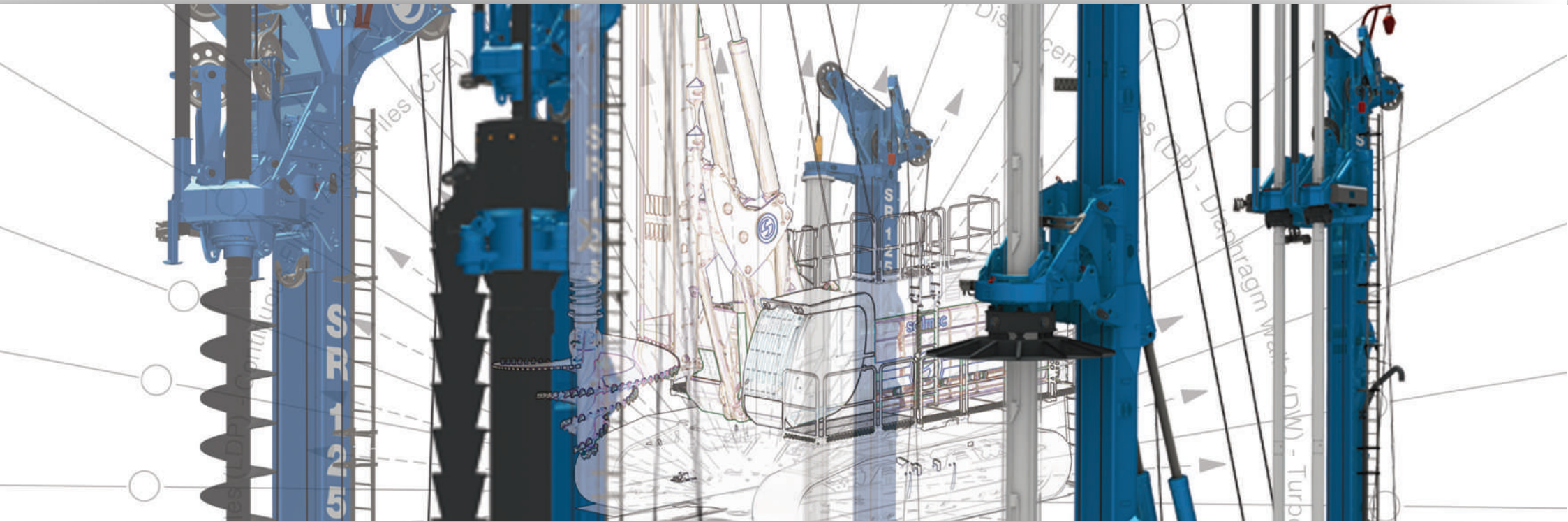
- Cab Lighting
- Visibility Arrangements
- Catwalks, non-slip steps and handrails
- Safety cameras
- Operator Not Present Monitoring System

Every Soilmec equipment can be purchased with the EC EN16228 certification package which includes all accessories / devices to ensure the highest level of accessibility and safety in accordance with European standards.

Each machine under goes the most stringent functional and performance tests: all loads are detected and compared with the expected values to guarantee the highest quality in production.

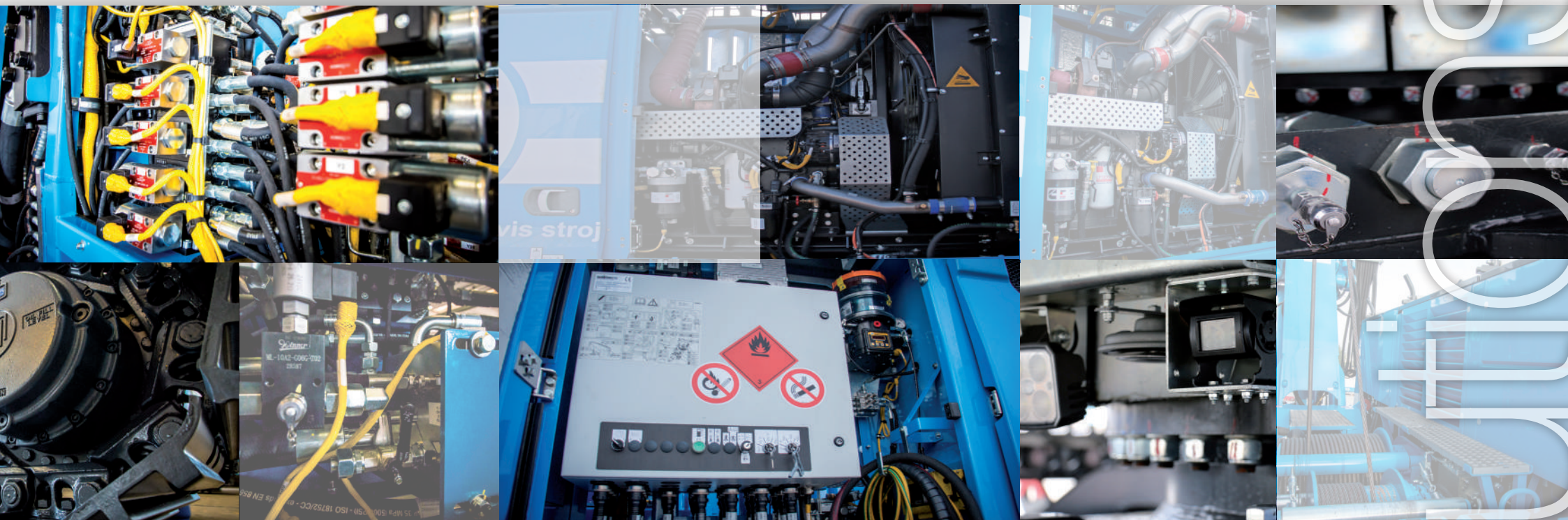


Our expertise and solution
for the foundation industry...



... to operate flawlessly.

Choose according to you needs.



Anti-slack rope system (Patent Pending). The system is managed by the DMS ON BOARD and suggests when to slow down the kelly bar descent to avoid collisions with the bottom of the hole and excessive unwinding of the main rope.

Automatic return to centre hole. Designed to speed up the discharging phase.

Main winch SW470 model. Main winch in single layer with 470 kN (105660 lbf) line pull.

Drilling axis at 1800 mm (70 in). A simple package to change the drilling axis from 1550 to 1800 mm (from 61 into 70 in).

CFA/DP technology. Quick and easy package to convert the rig from LDP to CFA/DP.

CSP technological package. The perfect solution for your cased secant piles.

CFA autorotary. The operator can activate this function by a dedicated pedal or joystick.

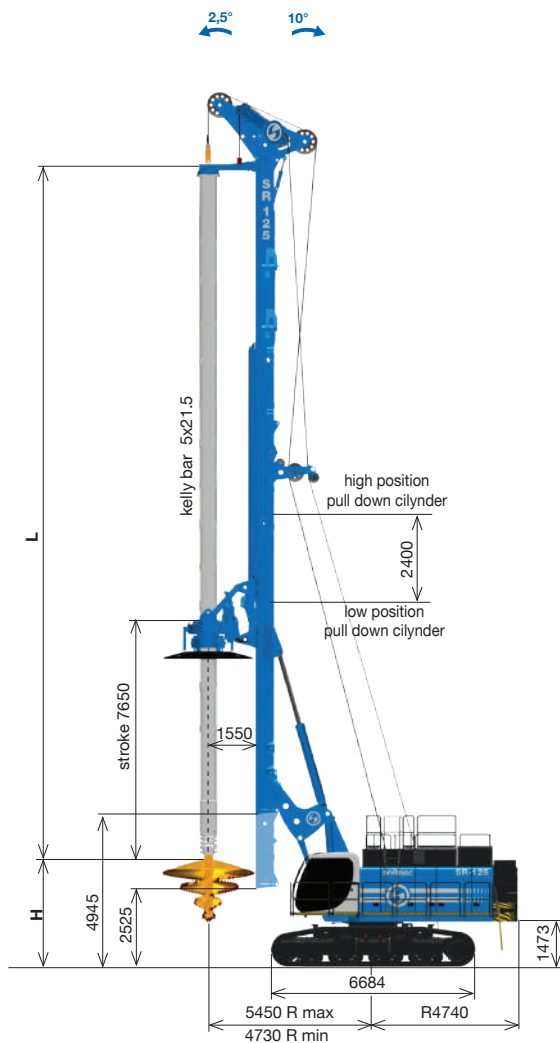
CFA autodrilling. Automated CFA operations by means of electronic device for optimal control of drilling parameters.

Long service rope. 32 m (105 ft) longer than standard rope.

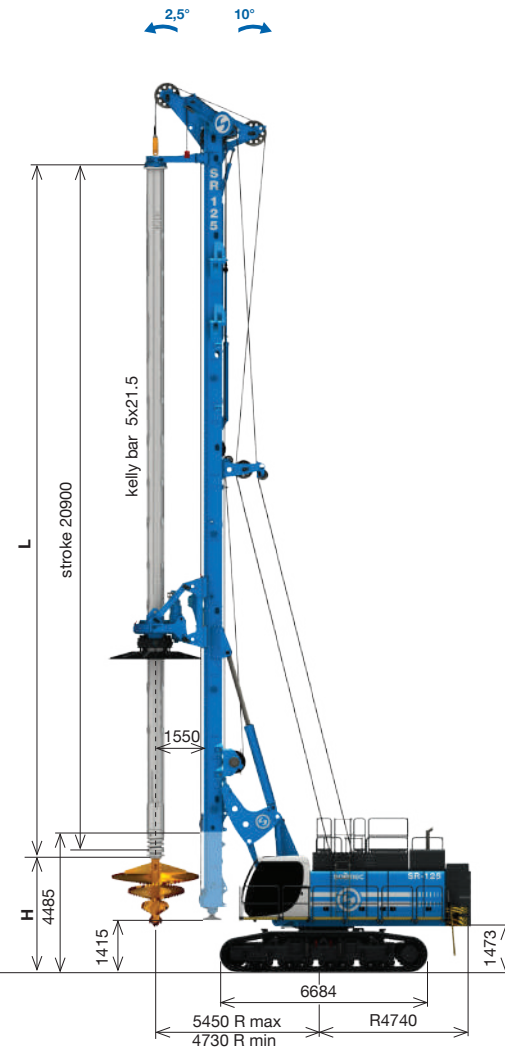
Automatic Greasing package. No more worries, self-greasing of most critical parts.

Large Diameter Piles

Cylinder Crowd System



Winch Crowd System



Upgraded main winch



| LDP - Large Diameter Piles - CCS version | | |
|--|----------------|--------------|
| Operating weight w/o kelly bar | 125500 kg | 276680 lb |
| Max pile diameter (tool along the mast) | 3000 mm | 118 in |
| Max pile diameter c/w increased drilling axis ¹ (tool along the mast) | 3500 mm | 138 in |
| Max pile diameter w/o lower mast section ¹⁻² (tool below the mast) | 3500 mm | 138 in |
| Max pile diameter c/w increased drilling axis ¹ & w/o lower mast section ¹⁻² (tool below the mast) | 4000 mm | 157 in |
| Working radius ⁴ | 4730 - 5450 mm | 186 - 214 in |
| Tail swing radius | 4680 mm | 15.4 ft |
| Max pile depth-friction kelly | 120 m | 394 ft |
| Max pile depth-locking kelly | 100 m | 328 ft |
| Max pile depth-extended version (friction/locking kelly) | 138 / 115 m | 453 / 377 ft |
| LDP - Large Diameter Piles - WCS version | | |
| Operating weight w/o kelly bar | 127700 kg | 28311530 lb |
| Max pile diameter (tool along the mast) | 2800 mm | 110 in |
| Max pile diameter c/w increased drilling axis ¹ (tool along the mast) | 3300 mm | 130 in |
| Max pile diameter w/o lower mast section ¹⁻³ (tool below the mast) | 3500 mm | 138 in |
| Max pile diameter c/w increased drilling axis ¹ & w/o lower mast section ¹⁻³ (tool below the mast) | 4000 mm | 157 in |
| Working radius ⁴ | 4730 - 5450 mm | 186 - 214 in |
| Tail swing radius | 4680 mm | 15.4 ft |
| Max pile depth-friction kelly | 120 m | 394 ft |
| Max pile depth-locking kelly | 100 m | 328 ft |
| Max pile depth-extended version (friction/locking kelly) | 138 / 115 m | 453 / 377 ft |
| LDP - Special arrangement with upgraded main winch | | |
| Operating weight w/o kelly bar CCS version | 127800 kg | 281748 lb |
| Operating weight w/o kelly bar WCS version | 130100 kg | 286818 lb |
| Tail swing radius | 6543 mm | 22.1 ft |
| Max pile depth using single layer | 119 m | 390 ft |

¹ package on request

² cylinder crowd in upper position - depth reduced by 2,4 m (7.8 ft)

³ rotary stroke reduced - depth reduced by 2,4 m (7.8 ft)

⁴ working radius with increased drilling axis: 4980 - 5700 mm (199 - 228 in)

Kelly bars for LDP

| | Kelly type | Kelly dims. | Drilling Depth ¹ | | Weight | | L Length | | H | | | | | |
|-----------------------|---------------|----------------|--------------------------------|-------|--------|-------|-------------|------|---------|------|----------|------|------|------|
| | | | | | | | | | CCS_low | | CCS_high | | WCS | |
| 3 pars ² | | | m | ft | t | t(US) | m | ft | m | ft | m | ft | m | ft |
| | BL HD | 3 x 11 | 28,6 | 93.8 | 7,8 | 8.6 | 12,5 | 41.0 | 9,7 | 31.8 | 12,1 | 39.7 | 13,7 | 44.9 |
| | BL HD | 3 x 12 | 32,2 | 105.6 | 8,4 | 9.2 | 13,8 | 45.3 | 9,7 | 31.8 | 12,1 | 39.7 | 12,5 | 41.0 |
| | BL HD | 3 x 13,5 | 36,1 | 118.4 | 9,2 | 10.1 | 15,0 | 49.2 | 9,7 | 31.8 | 11,2 | 36.7 | 11,2 | 36.7 |
| | BL HD | 3 x 14,5 | 39,2 | 128.6 | 9,8 | 10.7 | 16,1 | 52.8 | 9,7 | 31.8 | 10,2 | 33.5 | 10,2 | 33.5 |
| | BL HD | 3 x 16 | 43,2 | 141.7 | 10,6 | 11.6 | 17,5 | 57.4 | 8,8 | 28.9 | 8,8 | 28.9 | 8,8 | 28.9 |
| | BL HD | 3 x 19,5 | 53,9 | 176.8 | 12,5 | 13.8 | 21,0 | 68.9 | 5,3 | 17.4 | 5,3 | 17.4 | 5,3 | 17.4 |
| 4 pars ² | BL HD | 3 x 21,5 | 59,9 | 196.5 | 13,6 | 15.0 | 23,0 | 75.5 | 3,3 | 10.8 | 3,3 | 10.8 | 3,3 | 10.8 |
| | BL HD | 4 x 11 | 38,1 | 125.0 | 9,2 | 10.1 | 12,5 | 41.0 | 9,7 | 31.8 | 12,1 | 39.7 | 13,7 | 44.9 |
| | BL HD | 4 x 12 | 43,3 | 142.1 | 9,8 | 10.8 | 13,8 | 45.3 | 9,7 | 31.8 | 12,1 | 39.7 | 12,5 | 41.0 |
| | BL HD | 4 x 13,5 | 48,0 | 157.5 | 10,8 | 11.9 | 15,0 | 49.2 | 9,7 | 31.8 | 11,2 | 36.7 | 11,2 | 36.7 |
| | BL HD | 4 x 14,5 | 52,5 | 172.2 | 11,5 | 12.6 | 16,1 | 52.8 | 9,7 | 31.8 | 10,2 | 33.5 | 10,2 | 33.5 |
| | BL HD | 4 x 16 | 57,9 | 190.0 | 12,4 | 13.7 | 17,5 | 57.4 | 8,8 | 28.9 | 8,8 | 28.9 | 8,8 | 28.9 |
| | BL HD | 4 x 17,5 | 65,0 | 213.3 | 13,4 | 14.7 | 19,2 | 63.0 | 7,0 | 23.0 | 7,0 | 23.0 | 7,0 | 23.0 |
| 5 pars ^{2,3} | BL HD | 4 x 19,5 | 72,1 | 236.5 | 14,7 | 16.1 | 21,0 | 68.9 | 5,3 | 17.4 | 5,3 | 17.4 | 5,3 | 17.4 |
| | BL HD | 4 x 21,5 | 80,1 | 262.8 | 16,0 | 17.6 | 23,0 | 75.5 | 3,3 | 10.8 | 3,3 | 10.8 | 3,3 | 10.8 |
| | BL HD | 5 x 13,5 | 60,4 | 198.2 | 11,8 | 13 | 15,0 | 49.2 | 9,7 | 31.8 | 11,2 | 36.7 | 11,2 | 36.7 |
| | BL HD | 5 x 14,5 | 65,7 | 215.6 | 12,5 | 13.8 | 16,1 | 52.8 | 9,7 | 31.8 | 10,2 | 33.5 | 10,2 | 33.5 |
| | BL HD | 5 x 16 | 72,4 | 237.5 | 13,7 | 15 | 17,5 | 57.4 | 8,8 | 28.9 | 8,8 | 28.9 | 8,8 | 28.9 |
| | BL HD | 5 x 17,5 | 81,4 | 267.1 | 14,8 | 16 | 19,2 | 63.0 | 7,0 | 23.0 | 7,0 | 23.0 | 7,0 | 23.0 |
| | BL HD | 5 x 19,5 | 90,3 | 296.3 | 16,3 | 18 | 21,0 | 68.9 | 5,3 | 17.4 | 5,3 | 17.4 | 5,3 | 17.4 |
| 6 pars ⁴ | BL HD | 5 x 21,5 | 100,1 | 328.4 | 17,8 | 19.6 | 23,0 | 75.5 | 3,3 | 10.8 | 3,3 | 10.8 | 3,3 | 10.8 |
| | BL HD | 5 x 24,5 | 115,0 | 377.0 | 19,7 | 21.7 | - | - | - | - | - | - | - | - |
| | FR HD | 6 x 16 | 87,6 | 287.4 | 15,2 | 16.7 | 17,5 | 57.4 | 8,8 | 28.9 | 8,8 | 28.9 | 8,8 | 28.9 |
| | FR HD | 6 x 17,5 | 97,9 | 321.2 | 16,4 | 18.1 | 19,2 | 63.0 | 7,0 | 23.0 | 7,0 | 23.0 | 7,0 | 23.0 |
| | FR HD | 6 x 19 | 105,4 | 345.8 | 17,7 | 19.5 | 20,5 | 67.3 | 5,8 | 19.0 | 5,8 | 19.0 | 5,8 | 19.0 |
| | FR HD | 6 x 19,5 | 108,5 | 356.0 | 18,1 | 19.9 | 21,0 | 68.9 | 5,3 | 17.4 | 5,3 | 17.4 | 5,3 | 17.4 |
| | FR HD | 6 x 21,5 | 120,5 | 395.3 | 19,8 | 21.8 | 23,0 | 75.5 | 3,3 | 10.8 | 3,3 | 10.8 | 3,3 | 10.8 |

deep referred to 1550 mm (61 in) drilling axis. Depth reduced by 300 mm (11.8 in) using 1800 mm (70.9 in) drilling axis

kelly over 19 m (62.3 ft) length becomes not self-mounting w/o lower mast section

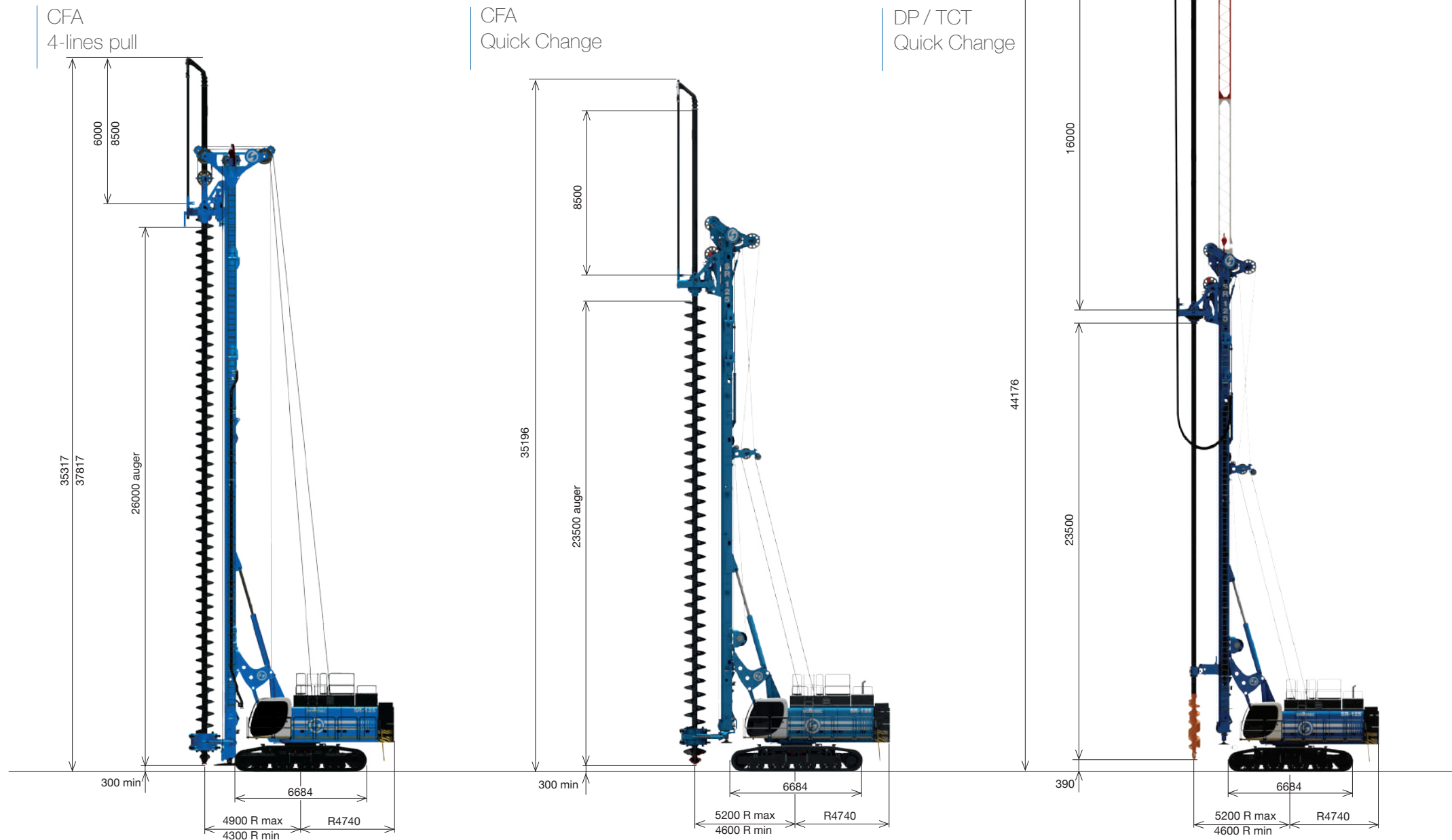
¹ drilling depth is reduced by 2,4m (7.8 ft) without lower mast section or cylinder crowd in high position; drilling depth is calculated with kelly bar c/w stub 200x200 and drilling tool 1500 mm (4.9 ft) long

² friction type is also available with the same dimension

³ special kelly bars are available in order to increase the residual extraction force (rotary torque derated)

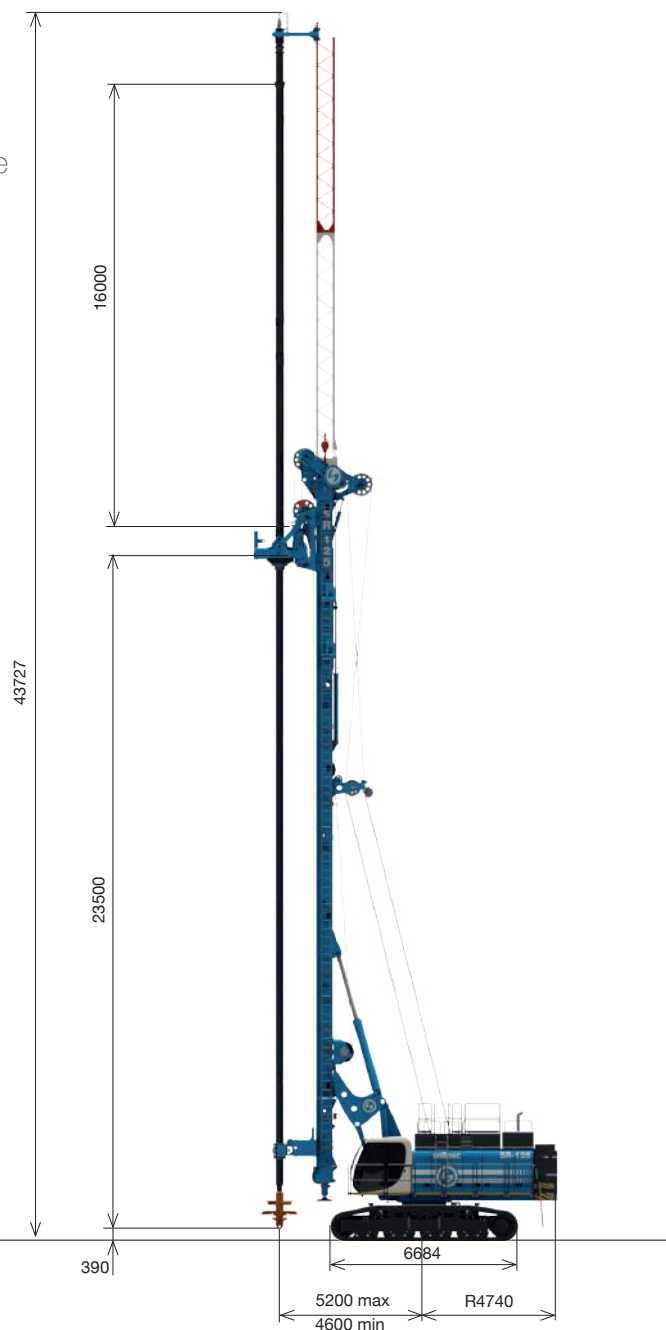
⁴ rotary torque derated

CFA / DP / TJ applications



Drawing are not to scale. All technical data are purely indicative and subject to change without notice.

TJ
Quick Change



CFA - Continuous Flight Auger - 4-lines pull - standard version

| | | |
|--|--------------|---------------|
| Operating weight (c/w 6 m - 19.6 ft sleeve extension, w/o auger) | 131700 kg | 290349 lb |
| Max pile diameter | 1200 mm | 47.24 in |
| Max length of auger (max length of sleeve extension) | 26 m (8,5 m) | 85 ft (28 ft) |
| Max pile depth (c/w 8,5 m - 27.9 ft sleeve extension) ¹ | 34,5 m | 113 ft |
| Nominal extraction force | 1300 kN | 292252 lbf |
| Nominal crowd force on auger ²⁻³ | 540 kN | 121395 lbf |

CFA - Continuous Flight Auger - 4-lines pull - special version

| | | |
|--|--------------|---------------|
| Operating weight (c/w 6 m - 19.6 ft sleeve extension, w/o auger) | 133100 kg | 293432 lb |
| Max pile diameter | 1200 mm | 47.24 in |
| Max length of auger (max length of sleeve extension) | 30 m (8,5 m) | 98 ft (28 ft) |
| Max pile depth (c/w 8,5 m - 27.9 ft sleeve extension) ¹ | 38,5 m | 126 ft |
| Nominal extraction force | 1065 kN | 239421 lbf |
| Nominal crowd force on auger ²⁻³ | 540 kN | 121395 lbf |

CFA - Continuous Flight Auger - Quick change

| | | |
|--|----------------|---------------|
| Operating weight (c/w 8,5 m - 27.9 ft sleeve extension, w/o auger) | 130300 kg | 287262 lb |
| Max pile diameter | 1200 mm | 47.24 in |
| Max length of auger (max length of sleeve extension) | 23,5 m (8,5 m) | 77 ft (28 ft) |
| Max pile depth (c/w 8,5 m - 27.9 ft sleeve extension) ¹ | 29,5 m | 97 ft |
| Nominal extraction force | 1200 kN | 269766 lbf |
| Nominal crowd force on auger | 540 kN | 121395 lbf |

DP - Displacement pile - Quick change⁴

| | | |
|--|---------|----------|
| Max recommended DP pile diameter | 800 mm | 31.50 in |
| Max recommended TCT pile diameter | 1000 mm | 39.37 in |
| Max pile depth w/o lattice boom extension c/w 8,5 m (27.9 ft) string extension | 31,3 m | 103 ft |
| Lattice boom extension length | 15,8 m | 52 ft |
| Max pile depth c/w lattice boom extension | 38,8 m | 127 ft |

TJ - Turbo jet - Quick change⁴

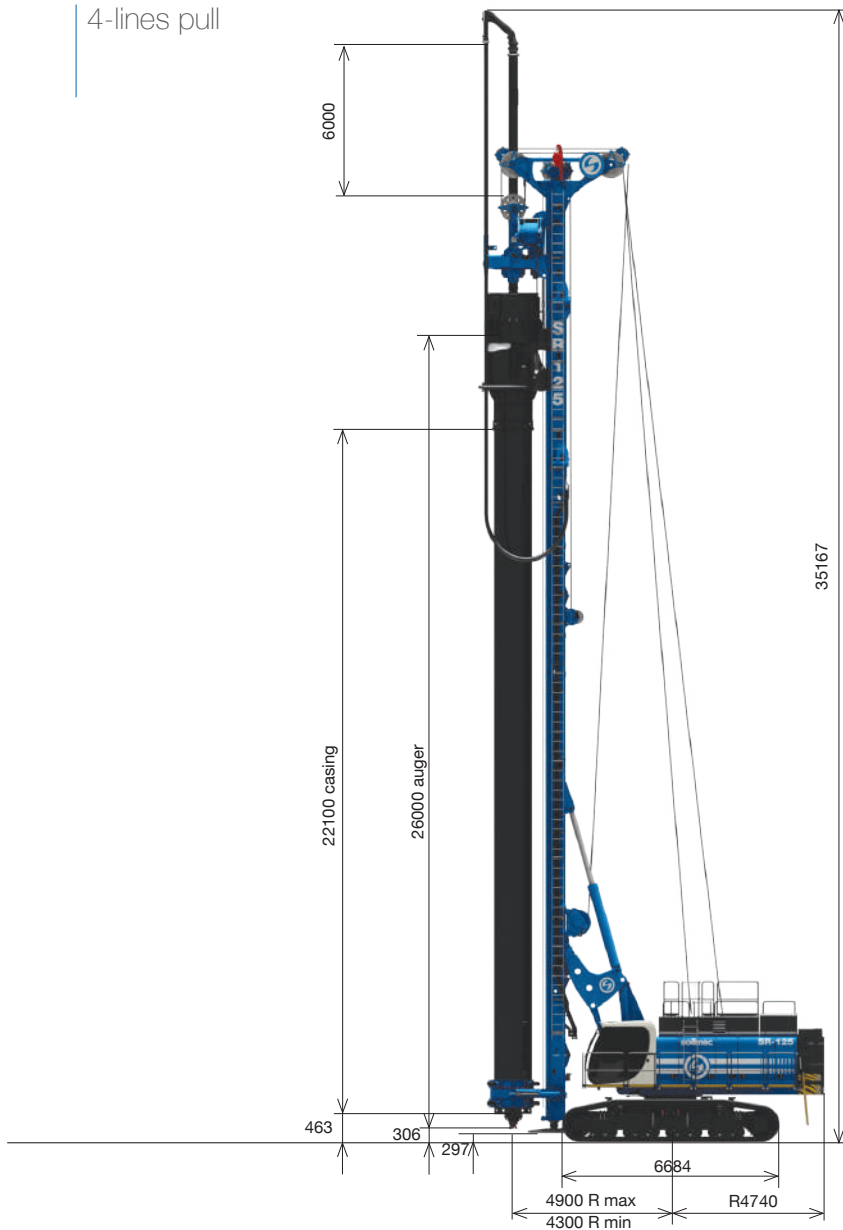
| | | |
|--|---------|----------|
| Max recommended TJ pile diameter | 1500 mm | 59.06 in |
| Max pile depth w/o lattice boom extension c/w 8,5 m (27.9 ft) string extension | 28,8 m | 95 ft |
| Lattice boom extension length | 15,8 m | 52 ft |
| Max pile depth c/w lattice boom extension | 38,8 m | 127 ft |

¹ depth reduced of 1,8 m (5.90 ft) with roller auger cleaner ² package on request - depth reduced by 1,4 m (4.59 ft)

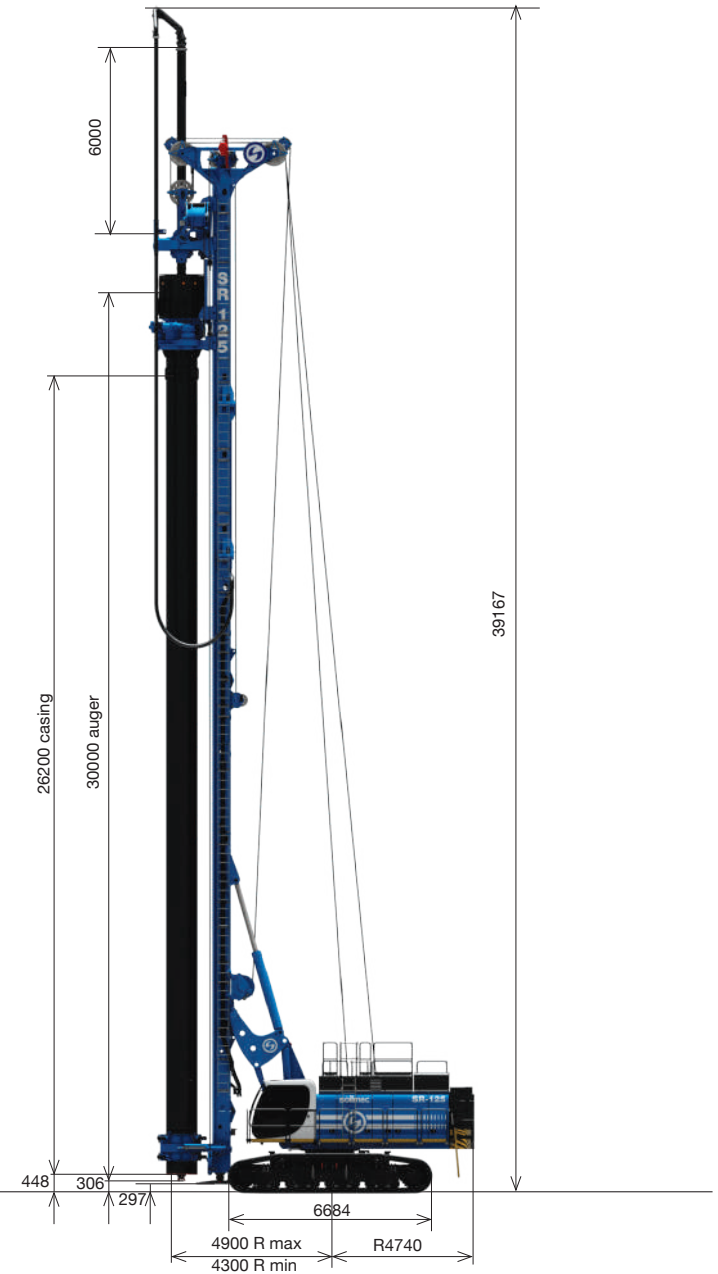
³ 100 kN (22480 lbf) also available on request - depth reduced by 250 mm (0.82 ft) ⁴ DP/TCT and TJ are also available with 4-line pull version

CSP applications

4-lines pull



Special
4-lines pull



CSP - Cased secant piles - 4-lines pull

| | | |
|---|--------------------------|----------------------------|
| Operating weight (c/w 6 m - 19.6 ft sleeve extension, w/o auger and casing) | 152000 kg | 335103 lb |
| Max pile diameter | 1200 mm | 47.24 in |
| Max augered depth | 27,8 m (21,8 + 6) | 91 ft (71.5 + 19.6) |
| Max cased depth | 21,8 m | 71.5 ft |
| Casing max torque | 450 kNm | 331903 lbf*ft |
| Max casing speed rotation | 9,6 rpm | 9.6 rpm |
| Auger max torque | 352 kNm | 259622 lbf*ft |
| Max auger speed rotation | 32 rpm | 32 rpm |
| Auger pull up/down | 1300 / 400 kN | 292252 / 89922 ft |
| Casing pull up/down | 940 / 540 kN | 211317 / 121395 ft |

CSP - Cased secant piles - 4-lines pull - special version

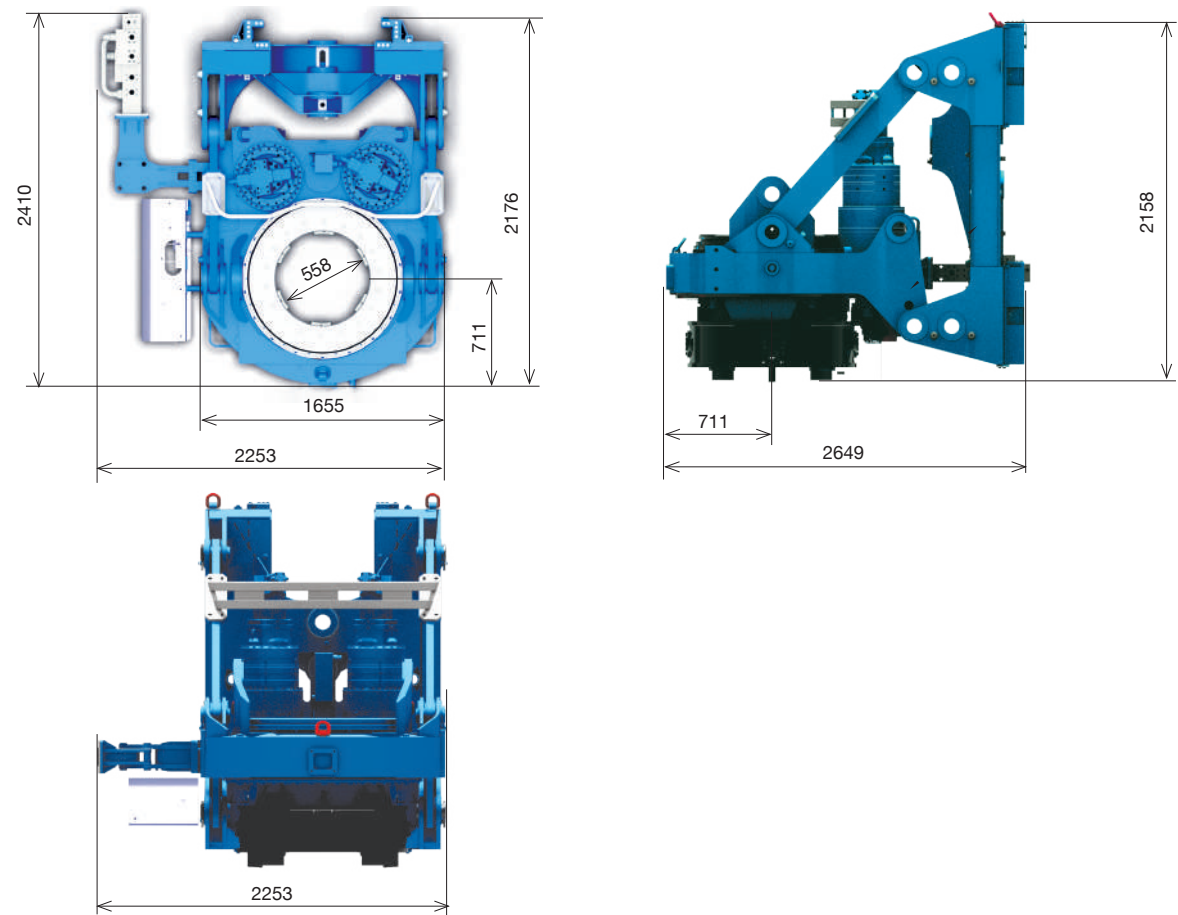
| | | |
|---|--------------------------|-----------------------------|
| Operating weight (c/w 6 m - 19.6 ft sleeve extension, w/o auger and casing) | 153300 kg | 337965 lb |
| Max pile diameter | 900 mm | 35.43 in |
| Max augered depth | 31,8 m (25,8 + 6) | 104 ft (87.2 + 19.6) |
| Max cased depth | 25,8 m | 85 ft |
| Casing max torque | 450 kNm | 331903 lbf*ft |
| Max casing speed rotation | 9,6 rpm | 9.6 rpm |
| Auger max torque | 352 kNm | 259622 lbf*ft |
| Max auger speed rotation | 32 rpm | 32 rpm |
| Nominal auger pull up/down | 1065 / 400 kN | 2399421 / 89922 ft |
| Nominal casing pull up/down | 740 / 540 kN | 166356 / 121395 ft |

Soilmec competitive edge in CSP mode is a higher performance which is achieved by having two independent rotaries: during auger lifting to remove the spoil, there is no need to extract the casing.

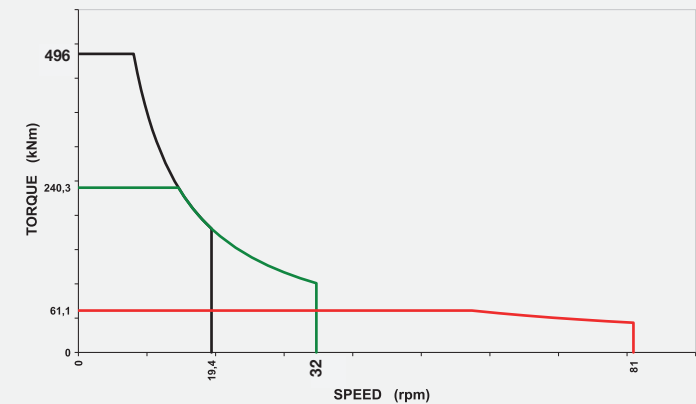
940 kN extraction force on casing, the highest extraction force within its class range.

This thanks to the additional winch, which is included in our standard package.

Rotary



Rotary torque diagram



The new rotary design allows a longer stroke, a higher extraction force and maximum use of available power. Every detail has been accurately designed to increase jobsite production.

The rotary sleeve is composed of 6 symmetrical and interchangeable ribs in order to reduce maintenance time. The inner passage is 617 mm (24.2 in) without ribs.

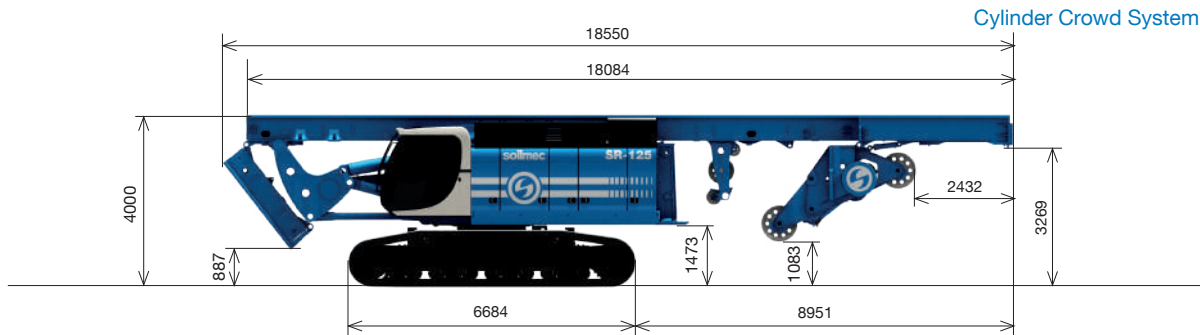
All our rotary heads are equipped with an automatic control of motor displacements. This optimizing the drilling speed and the productivity in every phase.

Our rotary can be equipped with a new system to variate the drilling axis clearance, from 1550 mm to 1800 mm (from 61 in to 70 in).

| Type | Multigear version | Multigear version |
|---------------------------------------|-------------------|-------------------|
| Max torque | 496 kNm | 365839 lbf*ft |
| 1 st gear rated torque | 453 kNm | 334116 lbf*ft |
| Max drilling speed | 32 rpm | 32 rpm |
| Max spin off speed | 81 rpm | 81 rpm |
| Weight (w/o cradle and casing flange) | 7000 kg | 15432 lb |

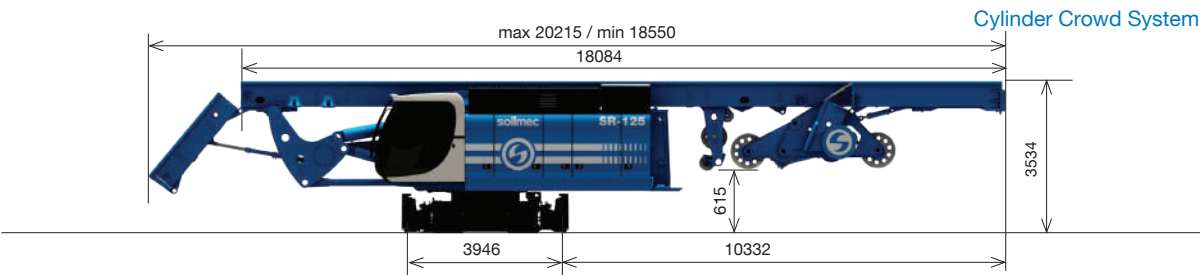
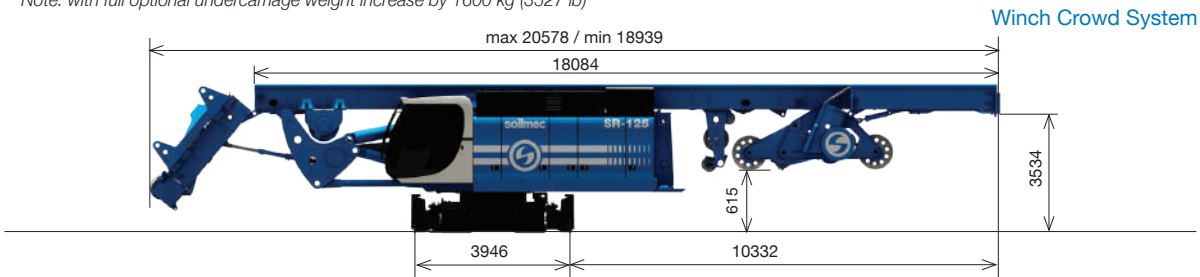
Drawing are not to scale. All technical data are purely indicative and subject to change without notice.

Transport, dimensions & weights



| Transport configuration | CCS | CCS | WCS | WCS |
|-------------------------------|----------|------------------------|----------|------------------------|
| Transport weight | 91700 kg | 202164 lb ¹ | 98300 kg | 216214 lb ² |
| Transport length ³ | 18550 mm | 60.8 ft | 18939 mm | 62.1 ft |

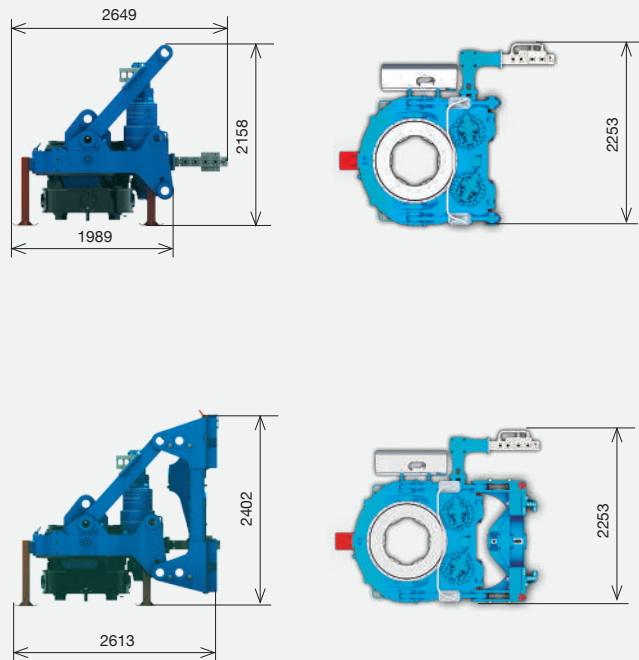
¹ includes the base carrier c/w undercarriage, mast; w/o counterweight, rotary, rotary cradle and cylinder crowd
² includes the base carrier c/w undercarriage, mast, rotary cradle, winch crowd; w/o counterweight and rotary
³ by truck shipment the maximum length will be 20578 mm (67.5 ft)
 Note: with full optional undercarriage weight increase by 1600 kg (3527 lb)



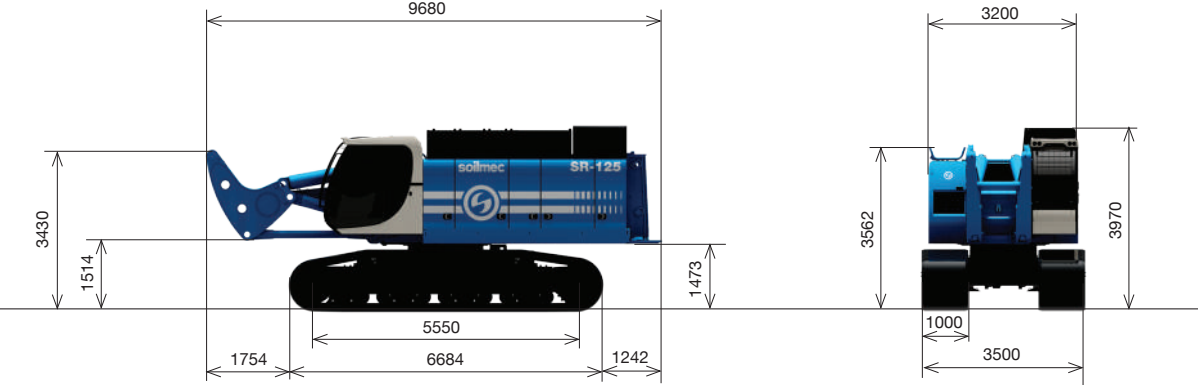
| Transport configuration | CCS | CCS | WCS | WCS |
|-------------------------|----------|------------------------|----------|------------------------|
| Transport weight | 64200 kg | 141536 lb ¹ | 70300 kg | 154985 lb ² |
| Transport length | 20215 mm | 67.5 ft | 20578 mm | 67.5 ft |

¹ includes the base carrier c/w mast; w/o undercarriage, counterweight, rotary, rotary cradle and cylinder crowd
² includes the base carrier c/w mast, rotary cradle, winch crowd; w/o undercarriage, counterweight and rotary
 Note: with full optional undercarriage weight increase by 1500 kg (3306 lb)

Rotary



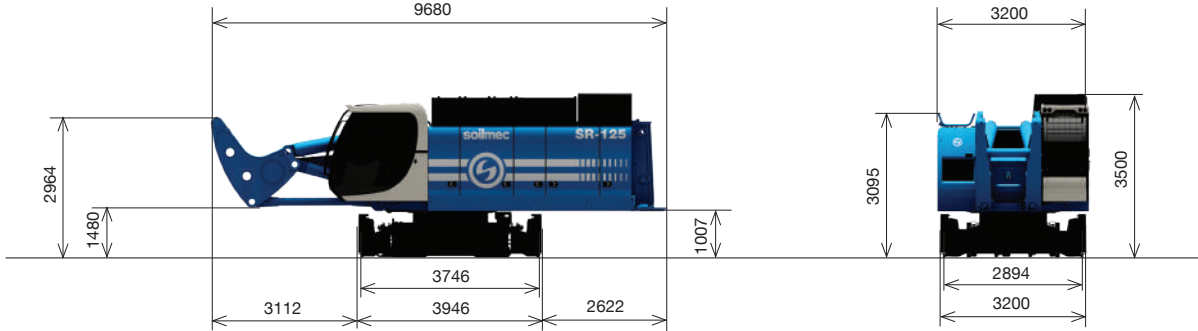
Transport, dimensions & weights



Transport configuration

| | | |
|------------------|----------|-----------|
| Transport weight | 74700 kg | 164685 lb |
| Transport length | 9680 mm | 31.8 ft |

Includes the base carrier and undercarriage; w/o mast and counterweight
Note: with full optional undercarriage weight increase by 1600 kg (3527 lb)



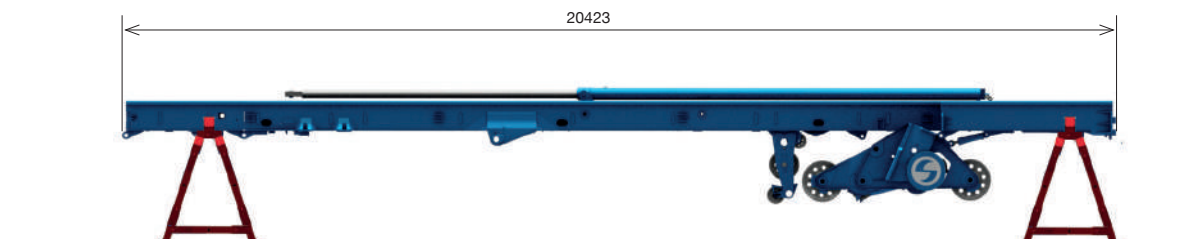
Transport configuration

| | | |
|------------------|----------|-----------|
| Transport weight | 49200 kg | 108467 lb |
| Transport length | 9680 mm | 31.8 ft |

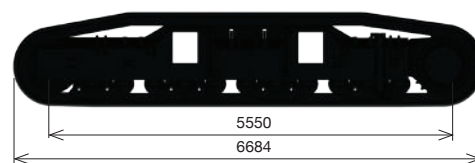
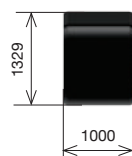
Includes the only base carrier
Note: with full optional undercarriage weight increase by 1500 kg (3306 lb)

Streamlined mast disassembly

A new useful system (patent pending) to make mast disassembly easy, fast and safe. This innovative system consists of mechanical lifting accessories (which are fixed on the mast and kinematic mechanism) and a hydraulic device to move the mast cylinders during assembling and disassembling operations. You only need one external service crane to remove the mast from base carrier.

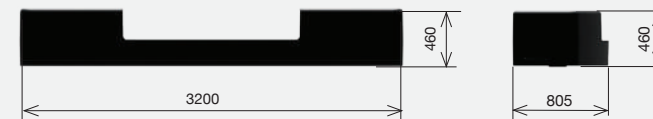


| Transport configuration | CCS | CCS | WCS | WCS |
|-------------------------|----------|-----------|----------|----------|
| Transport weight | 18800 kg | 41446 lb* | 23300 kg | 51367 lb |
| Transport length | 20423 mm | 67 ft | 21339 mm | 70 ft |
| Transport width | 2500 mm | 8.2 ft | 2500 mm | 8.2 ft |

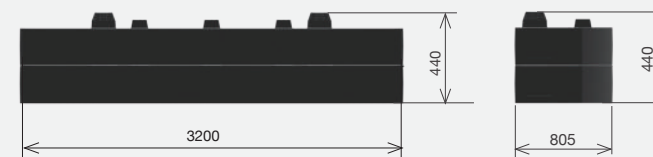


| Transport configuration | | |
|-----------------------------------|----------|-----------|
| Transport weight for each element | 13300 kg | 29321 lb |
| Transport length | 6684 mm | 263.15 in |

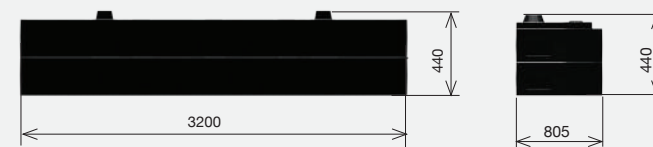
Stackable counterweight



n.1 x 4 ton (8818 lb)



n.2 x 1,4 ton (3086 lb)



n.3 x 4,4 ton (9700 lb)

Weights referred to kelly version. Different configuration of counterweights are available for other versions.

| Transport stackable counterweight | | |
|-----------------------------------|---------|---------|
| Transport length | 3200 mm | 10.5 ft |

Technical data

Crowd system



| CCS Cylinder Crowd System | | |
|----------------------------|------------------|----------------------|
| Stroke | 7650 mm | 301 in |
| Crowd force pull (down/up) | 345 / 412 kN | 77558 / 92620 lbf |
| Speed up (slow/fast) | 5,5 / 20 m/min | 18.04 / 65.62 ft/min |
| Speed down (slow/fast) | 5,5 / 20 m/min | 18.04 / 65.62 ft/min |
| WCS Winch Crowd System | | |
| Stroke | 20430 / 23400 mm | 804 / 921 in |
| Crowd force pull (down/up) | 540 / 540 kN | 121395 / 121395 lbf |
| Speed up (slow/fast) | 8,8 / 34,6 m/min | 29 / 113.5 ft/min |
| Speed down (slow/fast) | 8,8 / 34,6 m/min | 29 / 113.5 ft/min |

Engine



| Engine | | |
|--|-------------------------------|------------------------------|
| Engine | CAT C18 Acert | CA C18 Acert |
| Rated output ISO 3046-I | 470 kW @ 1800 rpm | 630 HP @ 1800 rpm |
| Engine conforms to Exhaust emission Standard | EU stage V US EPA Tier4f * | EU stage V US EPA Tier4f* |
| Fuel tank capacity | 1052 l | 278 US gal |
| AD Blue tank capacity | 48 l | 13 US gal |

* CAT C18 Stage IIIA / US EPA Tier 3 is available on request

Winches



| Main winch - standard | | |
|--------------------------------------|--------------------|--------------------|
| Type | controlled descent | controlled descent |
| Model | SW440 | SW440 |
| Rope layers | 2 | 2 |
| Line pull (1st layer) | 442 kN | 99366 lbf |
| Rope diameter | 36 mm | 1.42 in |
| Line speed (max.) | 68 m/min | 223 ft/min |
| Single layer main winch - on request | | |
| Type | controlled descent | controlled descent |
| Model | SW470 | SW470 |
| Rope layers | 1 | 1 |
| Line pull (1st layer) | 470 kN | 105660 lbf |
| Rope diameter | 38 mm | 1.50 in |
| Line speed (max.) | 56 m/min | 183 ft/min |
| Auxiliary winch | | |
| Type | controlled descent | controlled descent |
| Rope layers | 2 | 2 |
| Line pull (1st layer) | 132 kN | 29674 lbf |
| Rope diameter | 22 mm | 0.87 in |
| Line speed (max.) | 77 m/min | 253 ft/min |

Hydraulic system



| Hydraulic system | | |
|-----------------------------|---------------------|-------------------------|
| Main pumps flow | 2x451 + 2x292 l/min | 2x119 + 2x77 US gal/min |
| Third pump flow | 98 l/min | 26 US gal/min |
| Hydraulic oil tank capacity | 1000 l | 264 US gal |

Noise



| Noise | | |
|--|------------|--------------|
| Sound pressure level in cab c/w Tier 4f Engine | 74 dB(A) | 74 dB(A) |
| Sound power level c/w Tier 4f Engine | 107 dB(A) | 107 dB(A) |
| Vibration transmitted to the hand-arm system of the machine operator | < 2.5 m/s² | < 8.2 ft/s² |
| Vibration transmitted to the whole body of the machine operator | < 0.5 m/s² | < 1.64 ft/s² |

Undercarriage



| Undercarriage | | |
|---------------------------------------|---|-------------|
| Type | variable gauge, telescoping removable sides | |
| Overall width with retracted crawlers | 3500 mm | 137.80 in |
| Overall width with extended crawlers | 5200 mm | 204.72 in |
| Overall width with removed crawlers | 2980 mm | 117.32 in |
| Width of triple grouser track shoes | 1000 mm | 39.37 in |
| Overall length of crawlers | 6684 mm | 263.15 in |
| Traction force | 889 kN | 199855 lbf |
| Travelling speed | 0,8 / 1,7 km/h | 0.5 / 1 mph |

Especially designed for heavy duty applications that require less penetration, better turning capability and less ground disturbance. Maintenance-free crawler track. Hydraulic chain tensioning device.

Configurations

UNDERCARRIAGE

| |
|---|
| Stabilizers cylinders |
| Hydraulic prearrangement for casing oscillator |
| Mechanical prearrangement for casing oscillator |
| VRM250KL casing oscillator |
| Radio remote control for tramming operation |
| Radio remote control for dismounting track |
| Machine anchor points for transport |

UPPER STRUCTURE

| |
|--|
| Start and slow system |
| Electroproportional system |
| Harness technology for electrical system |
| Automatic greasing package |
| Compressor kit |
| Washer lance |
| Acoustic alarm for tramming |
| Lighting led system package |
| Sound proofed canopies |
| Hydraulic prearrangement for additional technologies |

CAB

| |
|---|
| Front protective grille |
| Falling object protective structure (FOPS) |
| Lower front protective grille |
| Rearview mirrors |
| Comfort packakge (cup holder, radio, A/C system, USB port & 12 V power socket, roll-up awning, courtesy lights) |
| Operator seat (air suspension, lumbar support, fully adjustable positioning, safety belt & operator presence micro-switch) |
| Sliding door |
| Sliding window |
| Lighting system in front of the cab |
| Front tools support |

CONTROL AND MONITORING SYSTEM

| |
|--|
| DMS suite |
| GSM / GPRS / WIFI Modem |
| DMS ON BOARD adjustable monitor 12" touch screen |
| Video control by 5 cameras with display in the cab |
| Inclinometer device with automatic verticality |

WINCHES

| | | |
|----------------------------------|---|----------------------------------|
| <input type="radio"/> | Load cell for main winch | <input checked="" type="radio"/> |
| <input type="radio"/> | Limit switch for rope winding and winches | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Depthmeter for main winch | <input checked="" type="radio"/> |
| <input type="radio"/> | Anti-slack system for main winch | <input type="radio"/> |
| <input checked="" type="radio"/> | Load cell for service winch | <input checked="" type="radio"/> |
| <input type="radio"/> | Swivel for auxiliary winch | <input type="radio"/> |
| <input checked="" type="radio"/> | Service rope holder | <input checked="" type="radio"/> |

ROTARY

| | | |
|----------------------------------|---|----------------------------------|
| <input checked="" type="radio"/> | Replaceable drive ribs | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Automatic greasing kit for cradle | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Automatic control of motor displacement | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Oil discharge conveying system | <input checked="" type="radio"/> |

MAST

| | | |
|----------------------------------|--|----------------------------------|
| <input type="radio"/> | Upper foldable mast element | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Lower foldable mast element | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Automatic greasing package for cathead | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Hydraulic cathead folding kit | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Hydraulic upper mast folding kit | <input checked="" type="radio"/> |
| | Double positioning of cylinder | <input checked="" type="radio"/> |

TECHNOLOGY

| | | |
|----------------------------------|---|----------------------------------|
| <input checked="" type="radio"/> | Sleeve 6 m (19.7 in) long 25HD-5 | <input type="radio"/> |
| <input type="radio"/> | Sleeve 8,5 m (27.8 in) long 25HD-5 | <input type="radio"/> |
| <input checked="" type="radio"/> | Package for CFA quick change & direct quick change | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Package for CFA 4-lines pull | <input type="radio"/> |
| | DMS ON BOARD with automatic auger lifting | <input checked="" type="radio"/> |
| <input checked="" type="radio"/> | Concrete pipe on turret and mast | <input type="radio"/> |
| <input checked="" type="radio"/> | Automatic greasing kit for sheeves block | <input checked="" type="radio"/> |
| <input type="radio"/> | Additional pull-down winch | <input type="radio"/> |
| <input checked="" type="radio"/> | Wi-Fi pressure transducer kit for concrete line | <input type="radio"/> |
| <input checked="" type="radio"/> | Pressure transducers kit | <input checked="" type="radio"/> |
| <input type="radio"/> | Hydraulic prearrangement for VTH-1 vibrator | <input type="radio"/> |
| | Warning system for CFA sleeve extension coupling (patent pending) | <input checked="" type="radio"/> |
| | CSP technology for 4-lines pull version | <input type="radio"/> |



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#muddyboots