

SR-145 HIGHTECHNOLOGY

soilmec[®]
Drilling and Foundation Equipment

Born to be the biggest

The details make the difference. An example?

- The new hydraulic system design saves a minimum of 22 kW of hydraulic power.
- In 2000 working hours, the fuel savings amounted to over 7850 l (2070 gal), only thanks to this feature.

Everything is perfect to increase your productivity.

Even the crowd system speeds have been increased to achieve these results and to reduce duty-cycle of the job.



5000 Kg

5000 Kg

CG
HT

Environment starts from safety.



As always, one of the main drivers of our projects is safety.

For this reason, every Soilmec equipment is equipped with the CE 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.

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

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.



Individuality, quality and technology.



The ergonomic H-cab model embraces the operator. A unique solution in this category (1050 mm /41.6 in wide) in which several accessories facilitate the work of the operator.

Fully adjustable seat, new air conditioner system and sliding door are some of the accessories you can find inside Soilmec cab.

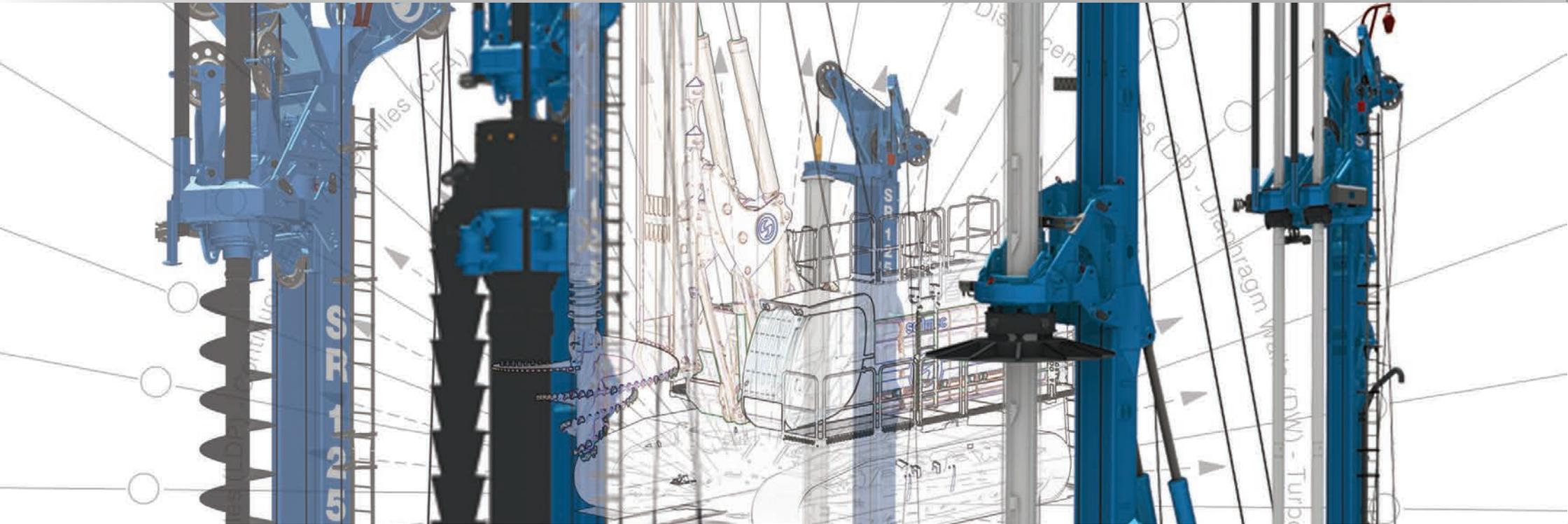
The large windows are designed to improve visibility and brightness improving the general job site safety.

Thank to the package of 5 cameras with a monitor, has the feeling of full awareness of all the surrounding environment.



Safety & Comfort

A world of solutions...



...to configure as you wish.



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 SW470SL model. Main winch in single layer with 470 kN (105660 lbf) line pull.

Main winch SW470DL model. Main winch in double 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 in to 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 by a joystick.

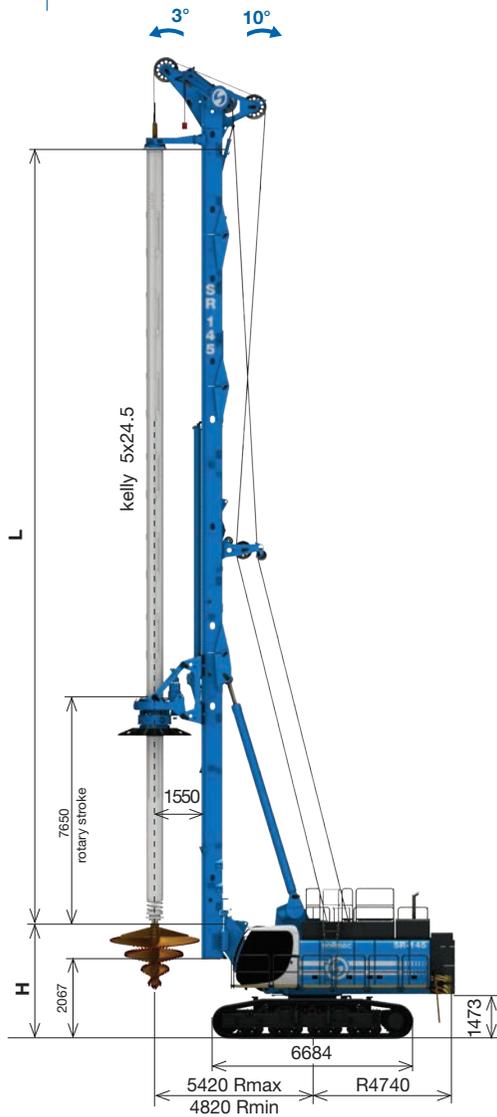
CFA autodrilling. Automatic device for CFA drilling operations in order to control and optimize the drilling parameters.

Long service rope. 32 m longer than standard rope.

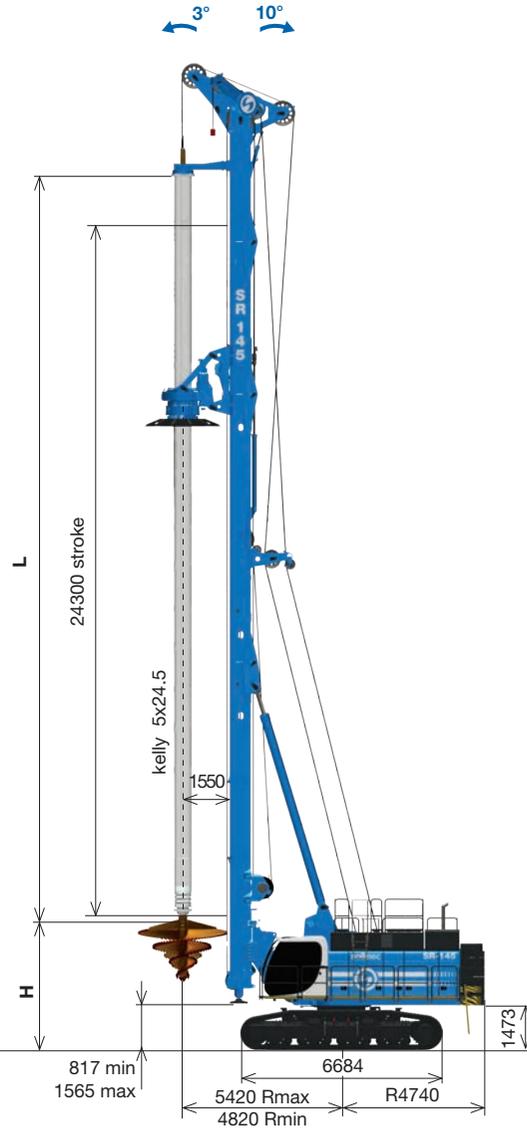


Large Diameter Piles

Cylinder Crowd System



Winch Crowd System



Upgraded main winch



LDP - Large Diameter Piles - CCS version

| | | |
|--|-----------------|--------------|
| Operating weight w/o kelly bar | 142100 kg | 313246 lb |
| Max pile diameter | 3000 mm | 118 in |
| Max pile diameter c/w increased drilling axis package ¹ | 3500 mm | 138 in |
| Working radius | 4820 - 5420 mm | 190 - 213 in |
| Tail swing radius | 4750 mm | 187 in |
| Max pile depth-friction kelly ² | 115,5 - 138,8 m | 379 - 475 ft |
| Max pile depth-locking kelly | 115,5 m | 379 ft |

LDP - Large Diameter Piles - WCS version

| | | |
|--|-----------------|--------------|
| Operating weight w/o kelly bar | 144800 kg | 319229 lb |
| Max pile diameter | 2800 mm | 110 in |
| Max pile diameter c/w increased drilling axis package ¹ | 3300 mm | 130 in |
| Working radius | 4820 - 5420 mm | 190 - 213 in |
| Tail swing radius | 4750 mm | 187 in |
| Max pile depth-friction kelly ² | 115,5 - 138,8 m | 379 - 475 ft |
| Max pile depth-locking kelly | 115,5 m | 379 ft |

¹ on request

² main winch 470 kN (105658 lb) double layers required

Kelly bars for LDP

| | Kelly type | Kelly dims. | Drilling Depth | | Weigh | | L Lengh | | H | | WCS | |
|--------------------|--------------------|-------------|----------------|-------|-------|-------|---------|------|------|------|------|------|
| | | | m | ft | t | t(US) | m | ft | m | ft | m | ft |
| 3 pars | BL HD | 3 x 12 | 32,6 | 107,0 | 8,4 | 9,2 | 13,8 | 45,3 | 9,3 | 30,5 | 15,4 | 50,5 |
| | BL HD | 3 x 13,5 | 36,5 | 119,8 | 9,2 | 10,1 | 15,0 | 49,2 | 9,3 | 30,5 | 14,1 | 46,3 |
| | BL HD | 3 x 14,5 | 39,6 | 129,9 | 9,8 | 10,7 | 16,1 | 52,8 | 9,3 | 30,5 | 13,1 | 43,0 |
| | BL HD | 3 x 16 | 43,6 | 143,0 | 10,6 | 11,6 | 17,5 | 57,4 | 9,3 | 30,5 | 11,7 | 38,4 |
| | BL HD | 3 x 17,5 | 49,0 | 160,8 | 11,4 | 12,6 | 19,2 | 63,0 | 9,3 | 30,5 | 9,9 | 32,5 |
| | BL HD | 3 x 19,5 | 54,3 | 178,1 | 12,5 | 13,8 | 21,0 | 68,9 | 8,2 | 26,9 | 8,2 | 26,9 |
| | BL HD | 3 x 21,5 | 60,3 | 197,8 | 13,6 | 15,0 | 23,0 | 75,5 | 6,2 | 20,3 | 6,2 | 20,3 |
| | BL HD | 3 x 24,5 | 69,2 | 227,0 | 15,3 | 16,8 | 25,9 | 85,0 | 3,2 | 10,5 | 3,2 | 10,5 |
| | BL HD | 4 x 11 | 38,5 | 126,3 | 9,2 | 10,1 | 12,5 | 41,0 | 9,3 | 30,5 | 16,6 | 54,5 |
| | BL HD | 4 x 12 | 43,7 | 143,4 | 9,8 | 10,8 | 13,8 | 45,3 | 9,3 | 30,5 | 15,4 | 50,5 |
| 4 pars | BL HD | 4 x 13,5 | 48,4 | 158,8 | 10,8 | 11,9 | 15,0 | 49,2 | 9,3 | 30,5 | 14,1 | 46,3 |
| | BL HD | 4 x 14,5 | 52,9 | 173,6 | 11,5 | 12,6 | 16,1 | 52,8 | 9,3 | 30,5 | 13,1 | 43,0 |
| | BL HD | 4 x 16 | 58,3 | 191,3 | 12,4 | 13,7 | 17,5 | 57,4 | 9,3 | 30,5 | 11,7 | 38,4 |
| | BL HD | 4 x 17,5 | 65,4 | 214,6 | 13,4 | 14,7 | 19,2 | 63,0 | 9,3 | 30,5 | 9,9 | 32,5 |
| | BL HD | 4 x 19,5 | 72,5 | 237,9 | 14,7 | 16,1 | 21,0 | 68,9 | 8,2 | 26,9 | 8,2 | 26,9 |
| | BL HD | 4 x 21,5 | 80,5 | 264,1 | 16,0 | 17,6 | 23,0 | 75,5 | 6,2 | 20,3 | 6,2 | 20,3 |
| | BL HD | 4 x 24,5 | 92,4 | 303,1 | 17,9 | 19,7 | 25,9 | 85,0 | 3,2 | 10,5 | 3,2 | 10,5 |
| | BL /FR HD | 5 x 11 | 48,5 | 159,1 | 10,5 | 11,6 | 12,5 | 41,0 | 9,3 | 30,5 | 16,6 | 54,5 |
| | BL /FR HD | 5 x 12 | 54,4 | 178,5 | 11,3 | 12,4 | 13,8 | 45,3 | 9,3 | 30,5 | 15,4 | 50,5 |
| | BL /FR HD | 5 x 13,5 | 60,8 | 199,5 | 12,5 | 13,8 | 15,0 | 49,2 | 9,3 | 30,5 | 14,1 | 46,3 |
| 5 pars | BL /FR HD | 5 x 14,5 | 66,1 | 216,9 | 13,3 | 14,6 | 16,1 | 52,8 | 9,3 | 30,5 | 13,1 | 43,0 |
| | BL /FR HD | 5 x 16 | 72,8 | 238,8 | 14,5 | 16,0 | 17,5 | 57,4 | 9,3 | 30,5 | 11,7 | 38,4 |
| | BL /FR HD | 5 x 17,5 | 81,8 | 268,4 | 15,7 | 17,3 | 19,2 | 63,0 | 9,3 | 30,5 | 9,9 | 32,5 |
| | BL /FR HD | 5 x 19,5 | 90,7 | 297,6 | 17,3 | 19,1 | 21,0 | 68,9 | 8,2 | 26,9 | 8,2 | 26,9 |
| | BL /FR HD | 5 x 21,5 | 100,5 | 329,7 | 18,9 | 20,8 | 23,0 | 75,5 | 6,2 | 20,3 | 6,2 | 20,3 |
| | BL /FR HD | 5 x 24,5 | 115,5 | 378,9 | 21,3 | 23,5 | 25,9 | 85,0 | 3,2 | 10,5 | 3,2 | 10,5 |
| | FR HD | 6 x 16 | 88,0 | 288,7 | 15,2 | 16,7 | 17,5 | 57,4 | 9,3 | 30,5 | 11,7 | 38,4 |
| | FR HD | 6 x 17,5 | 98,3 | 322,5 | 16,4 | 18,1 | 19,2 | 63,0 | 9,3 | 30,5 | 9,9 | 32,5 |
| | FR HD | 6 x 19,5 | 108,9 | 357,3 | 18,1 | 19,9 | 21,0 | 68,9 | 8,2 | 26,9 | 8,2 | 26,9 |
| | FR HD ¹ | 6 x 21,5 | 120,9 | 396,7 | 19,8 | 21,8 | 23,0 | 75,5 | 6,2 | 20,3 | 6,2 | 20,3 |
| FR HD ² | 6 x 24,5 | 138,8 | 455,1 | 22,3 | 24,5 | 25,9 | 85,0 | 3,2 | 10,5 | 3,2 | 10,5 | |

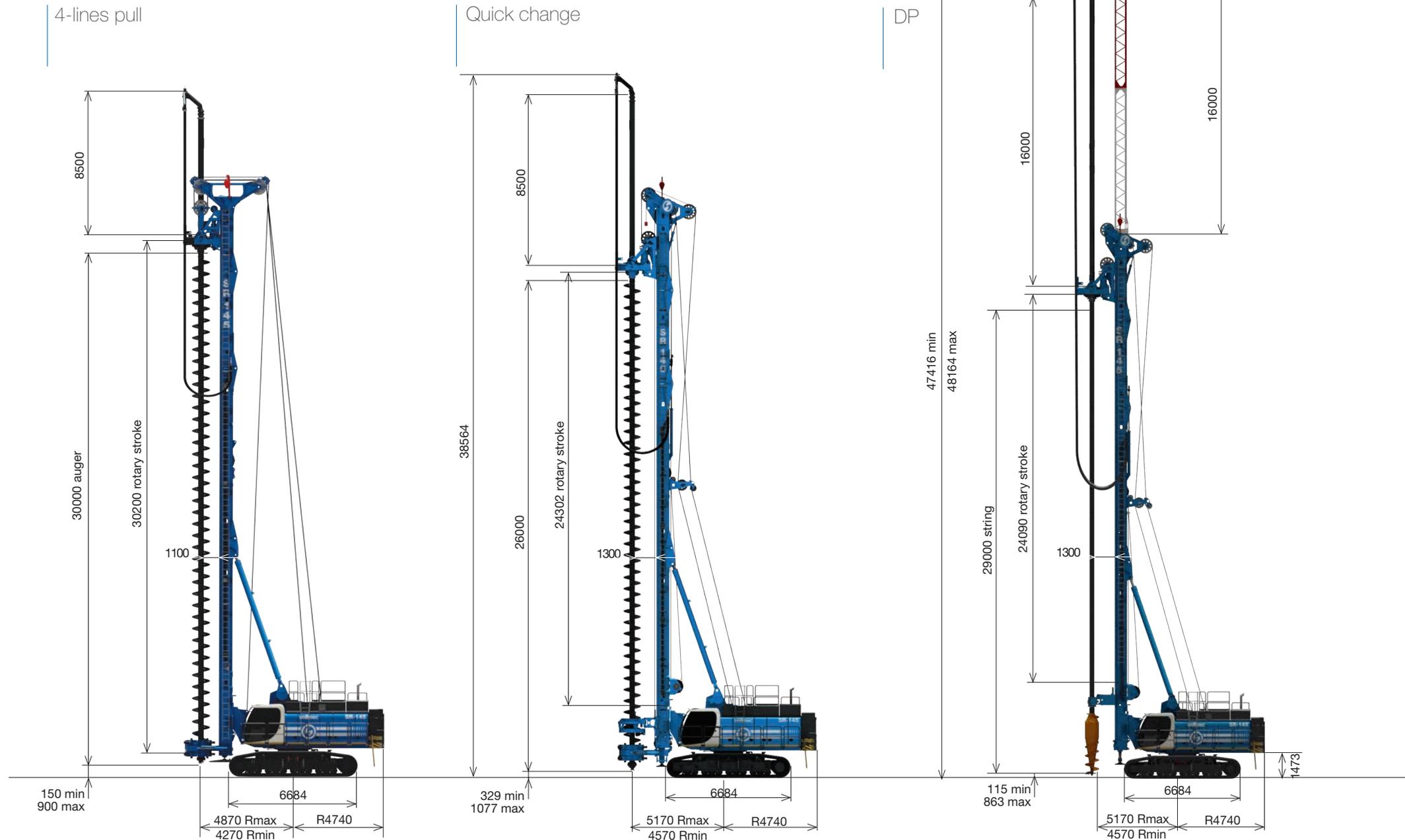
¹ main winch 470 kN (105658 lb) single layer required

² main winch 470 kN (105658 lb) double layers required

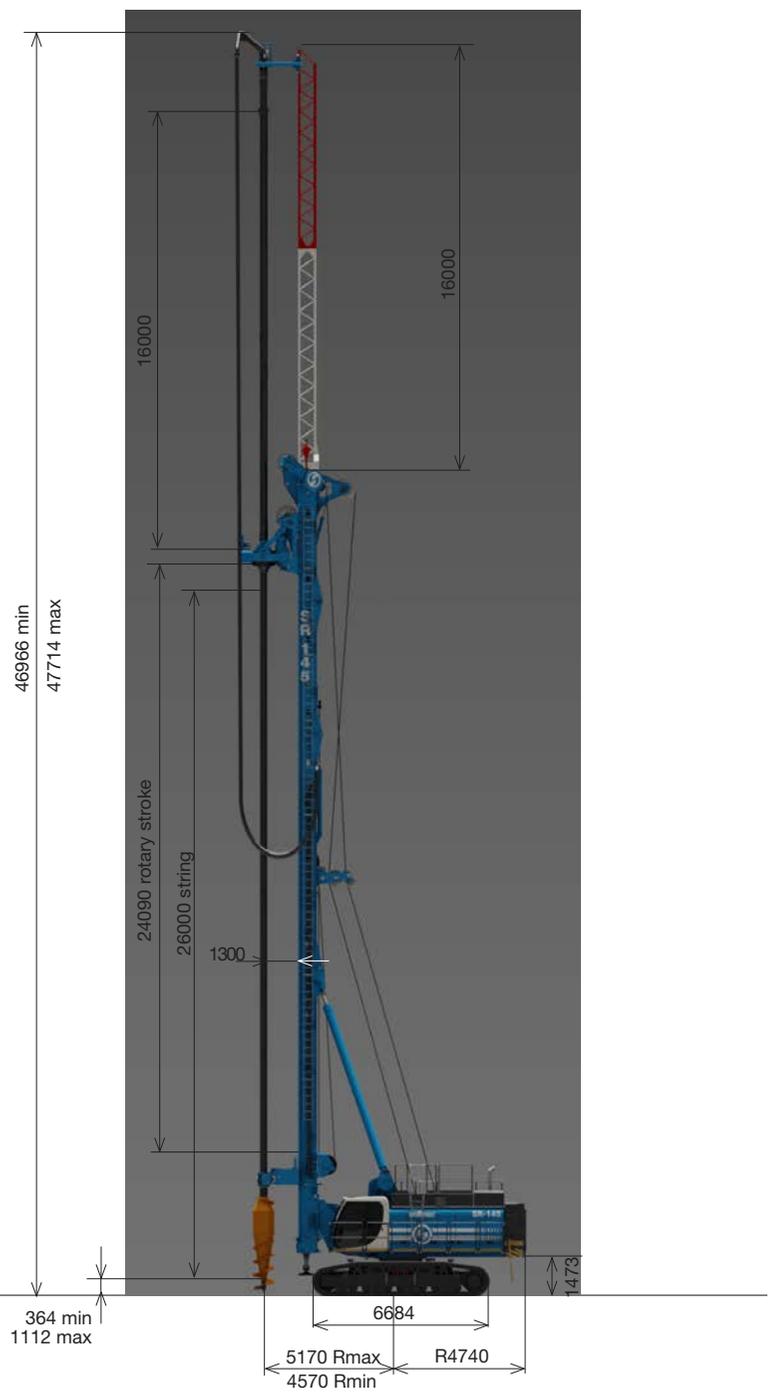
³ 6x rotary torque derated

Reduced drilling depth by 2,4 m (7.8 ft) w/o lower mast section or CCS in high position.
With kelly c/w stub 200x200. Drilling depth with tool 1500 mm (4.9 ft) long

CFA / DP / TJ applications



TJ



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

| | | |
|--|-----------|------------|
| Operating weight (c/w 6 sleeve extension, w/o auger) | 144200 kg | 317903 lb |
| Max pile diameter | 1200 mm | 47.24 in |
| Max length of auger | 26,0 m | 85 ft |
| Max length of sleeve extension | 8,5 m | 28 ft |
| Max pile depth c/w 8,5 m sleeve extension ¹ | 34,5 m | 113 ft |
| Extraction force | 1362 kN | 306184 lbf |

¹ depth reduced of 1,3 m (4.2 ft) with hydraulic auger cleaner

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

| | | |
|--|-----------|------------|
| Operating weight (c/w 6 sleeve extension, w/o auger) | 145800 kg | 321431 lb |
| Max pile diameter | 1200 mm | 47.24 in |
| Max length of auger | 30,5 m | 100 ft |
| Max length of sleeve extension | 8,5 m | 28 ft |
| Max pile depth c/w 8,5 m sleeve extension ¹ | 38,5 m | 126 ft |
| Extraction force | 1280 kN | 287750 lbf |

¹ depth reduced of 1,3 m (4.2 ft) with hydraulic auger cleaner

CFA - Continuous Flight Auger - Quick change

| | | |
|--|-----------|------------|
| Operating weight (c/w 8,5 sleeve extension, w/o auger) | 147800 kg | 325840 lb |
| Max pile diameter | 1200 mm | 47.24 in |
| Max length of auger | 26,0 m | 85 ft |
| Max length of sleeve extension | 8,5 m | 28 ft |
| Max pile depth c/w 8,5 m sleeve extension ² | 32,5 m | 107 ft |
| Extraction force | 1200 kN | 269766 lbf |

² depth reduced of 1,6 m (5.2 ft) with hydraulic auger cleaner
Additional crowd force on auger (on request) 540 kN (121395 lbf)

DP - Displacement pile - Quick change ³

| | | |
|--|-----------------|---------------------|
| Operating weight (w/o string and tool) | 147500 kg | 325179 lb |
| Max recommended DP pile diameter / TCT pile diameter | 800 mm /1000 mm | 31.50 in / 39.37 in |
| Max length of string | 26,0 m | 85 ft |
| Max pile depth w/o lattice boom extension c/w 8,5 m (27,8 ft) string extension | 31,5 m | 103 ft |
| Lattice boom extension length | 16,0 m | 52 ft |
| Max pile depth c/w lattice boom extension | 39,0 m | 128 ft |

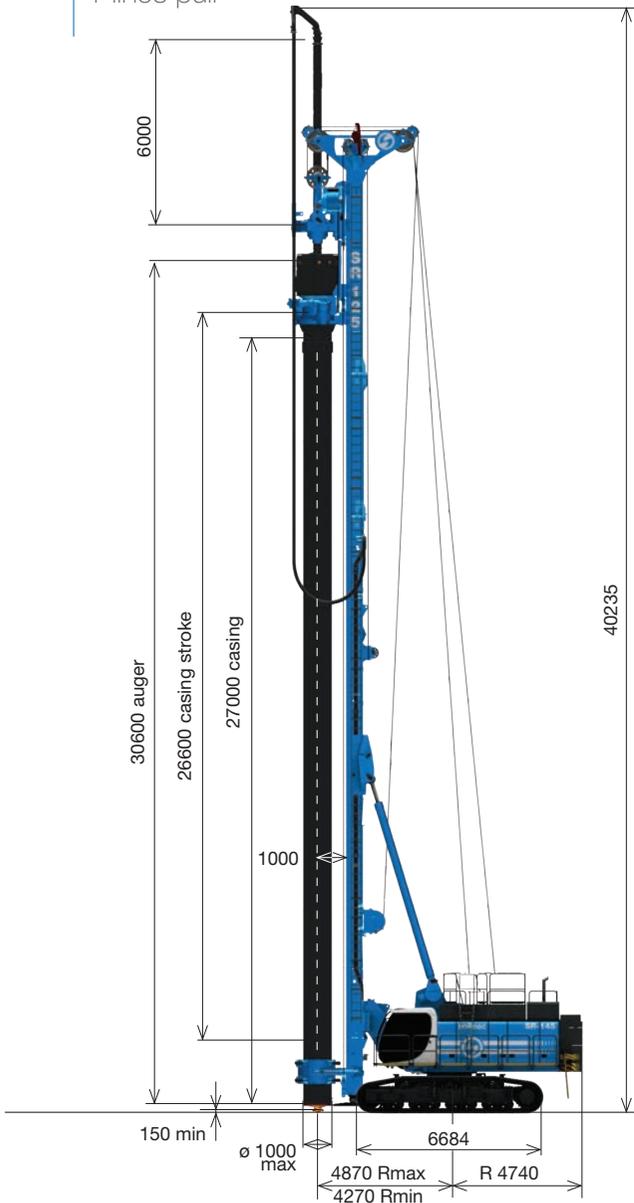
TJ - Turbo jet -Quick change ³

| | | |
|--|-----------|-----------|
| Operating weight (w/o string and tool) | 149520 kg | 329632 lb |
| Max recommended TJ pile diameter | 1500 mm | 59.06 in |
| Max length of string | 26,0 m | 85 ft |
| Max pile depth w/o lattice boom extension c/w 6 m (19.6 ft) string extension | 29,0 m | 95 ft |
| Lattice boom extension length | 16,0 m | 52 ft |
| Max pile depth c/w lattice boom extension | 39,0 m | 128 ft |

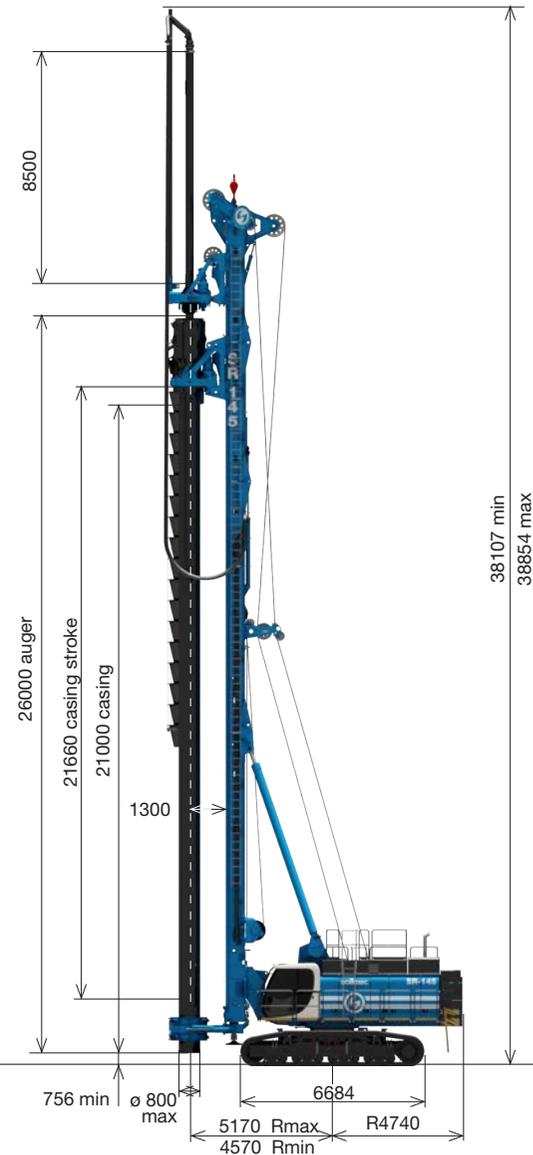
³ DP/TCT and TJ are also available with 4-lines pull version

CSP applications

Special version
4-lines pull



Quick change



| CSP - Cased secant piles - 4 lines pull | | |
|---|--------------------------|---------------------------|
| Operating weight (c/w 6m sleeve extension, w/o auger and casing) | 160630 kg | 354129 lb |
| Max pile diameter | 1200 mm | 47.24 in |
| Max augered depth w/o auger cleaner ¹ | 28,5 m (22,5 + 6) | 94 ft |
| Max cased depth w/o auger cleaner ¹ | 22,5 m | 74 ft |
| Casing max torque | 479,5 kNm | 354024 lbf*ft |
| Max casing speed rotation | 9,6 rpm | 9.6 rpm |
| Auger max torque | 411 kNm | 303133 lbf*ft |
| Max auger speed rotation | 34,7 rpm | 34.7 rpm |
| Auger pull up/down | 1362 / 400 kN | 306184 / 89922 ft |
| Casing pull up/down | 540 + 400 kN | 121395 + 89924 lbf |

¹ depth reduced of 0,6 m (1.9 ft) with cleaner

Special version available: max diameter 1000 mm (39.4 in), max augered depth w/o cleaner 33 m (108 ft), max cased depth w/o cleaner 26,7 m (88 ft), max auger pull up 1280 kN (287755 lbf)

| CSP - Cased secant piles - Quick change | | |
|--|--------------------------|----------------------|
| Operating weight (c/w 8,5 m sleeve extension, w/o auger and casing) | 157300 kg | 346784 lb |
| Max pile diameter | 800 mm | 31.50 in |
| Max augered depth w/o auger cleaner ¹ | 30 m (21,5 + 8,5) | 98 ft |
| Max cased depth w/o auger cleaner ¹ | 21,3 m | 70 ft |
| Casing max torque | 411 kNm | 303133 lbf*ft |
| Max casing speed rotation | 9,7 rpm | 9.7 rpm |
| Auger max torque | 250 kNm | 184387 lbf*ft |
| Max auger speed rotation | 19,6 rpm | 19.6 rpm |
| Auger pull up | 720 kN | 161862 lbf |
| Casing pull up/down | 490 kN | 110156 lbf |

¹ depth reduced of 0,6 m (1.9 ft) with cleaner

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.

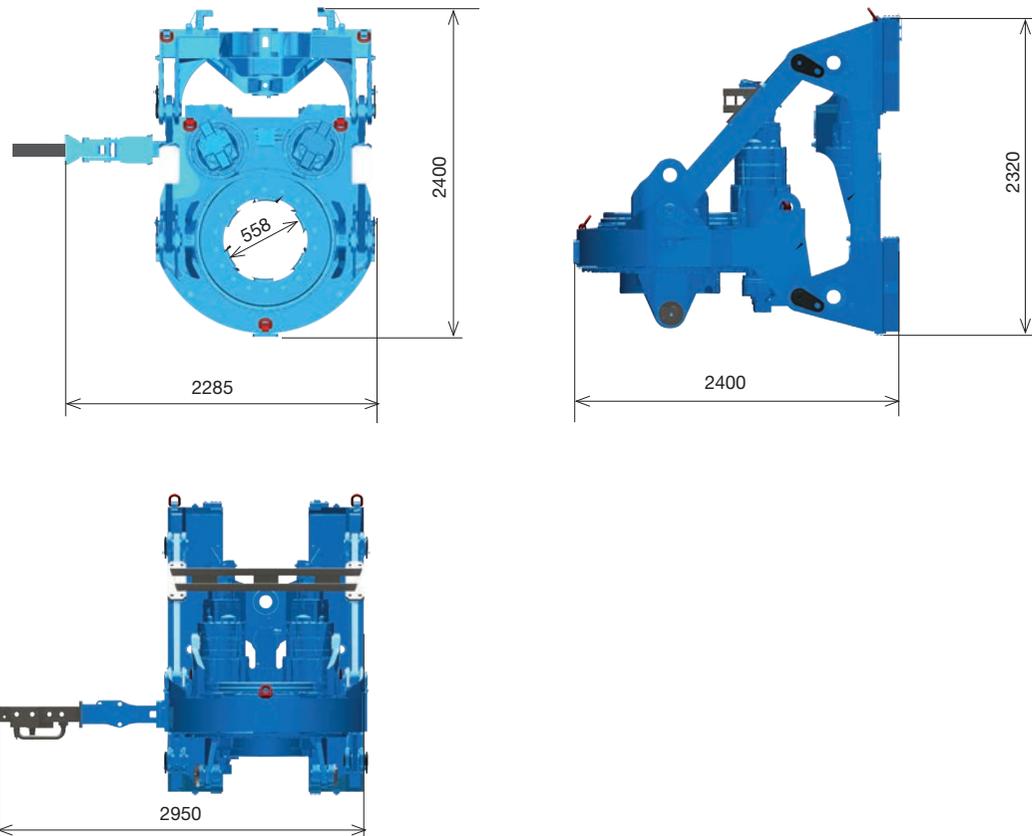
940 kN (211319 lbf) extraction force on casing, the highest extraction force within its class range.

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

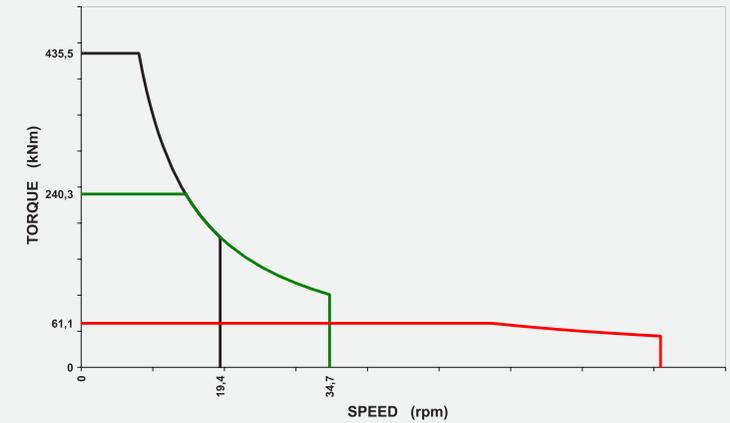
Soilmec innovative solution is a special kit for a rapid conversion of your drilling rig into CSP mode. The existing rotary is used to drive the casing.

The easy conversion allows you to choose the best rig configuration to suit your different needs.

Rotary



Rotary torque diagram



The new rotary design allows a longer stroke, a higher extraction force and an excellent performance of the absorbed power. Every detail has been designed to increase production on your jobsite.

The rotary sleeve is composed by 6 symmetrical and interchangeable ribs in order to reduce the 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.

Each rotary of the SR-145 can be equipped with the new system for variation of drilling axis clearance, from 1550 mm to 1800 mm (from 61 in to 70 in).

| Type | Multigear version | Multigear version |
|---------------------------------------|-------------------|-------------------|
| Max torque | 435 kNm | 320834 lbf*ft |
| 1 st gear rated torque | 411 kNm | 303133 lbf*ft |
| Max spin off speed | 81 rpm | 81 rpm |
| Weight (w/o cradle and casing flange) | 7000 kg | 15432 lb |

DMS product suite

Integrated solution embracing smart technology to optimise the use of machinery and increase efficiency on job sites.

Soilmec DMS helps to gain unique insights into ground engineering and DW business by collecting, analysing and managing the most relevant information from the equipment.

The system is intended to support construction companies in daily operations and business processes by improving decision making and leveraging the potential of data analytics.



DMS ON BOARD

Built-in instrumentation for equipment supervision and performance control.



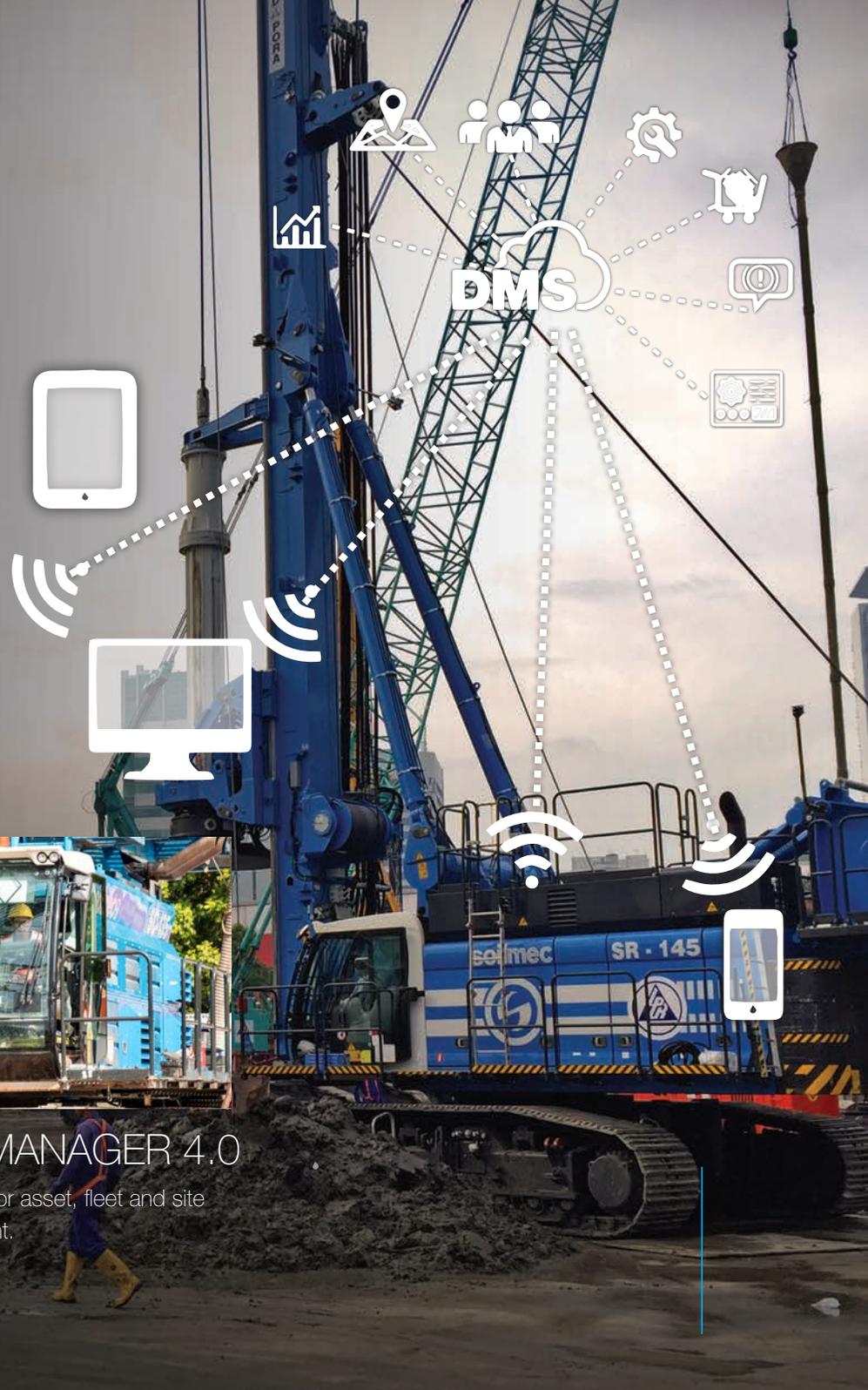
DMS PC

Licensed software for machine and production data processing and reporting.



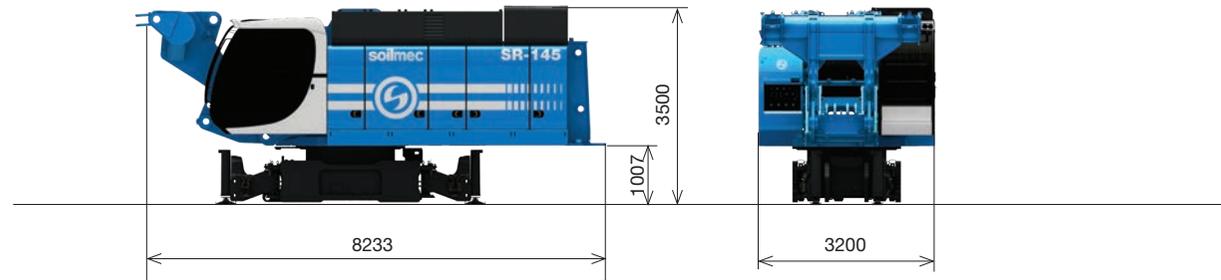
DMS MANAGER 4.0

Cloud app for asset, fleet and site management.



Transport

Dimensions and Weights

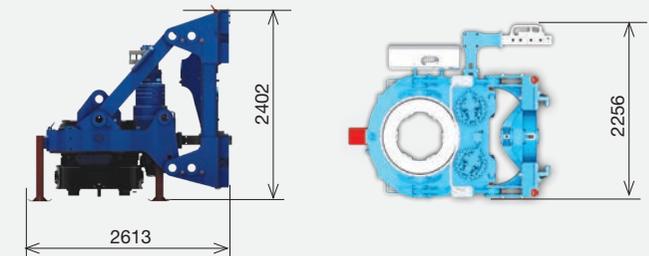
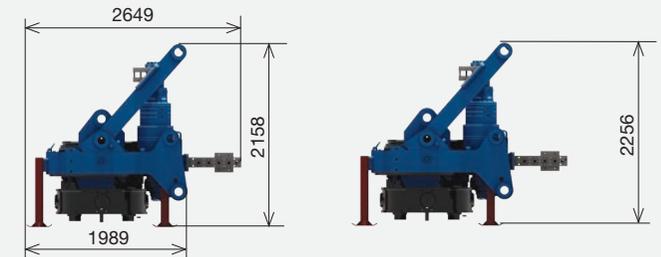


Transport configuration

| | | |
|---|------------------|--------------------|
| Transport width (cw crawler / w/o crawler) | 3500 / 3200 mm | 138 / 126 in |
| Transport height (cw crawler / w/o crawler) | 3966 / 3500 mm | 156 / 138 in |
| Transport length (cw mast section / w/o mast) | 18100 / 8300 mm | 713 / 327 in |
| Transport weight CCS (std / min) ¹ | 93700 / 48900 kg | 286573 / 107806 lb |
| Transport weight WCS (std / min) ¹ | 97900 / 48900 kg | 815833 / 107806 lb |

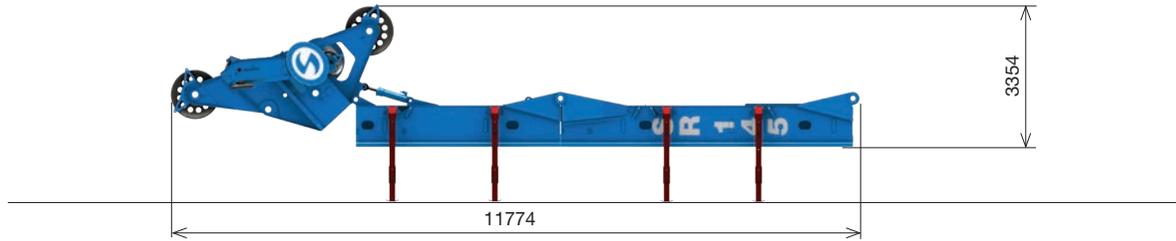
¹ std = cw crawler and lower mast element, w/o rotary; min = w/o crawler, rotary and lower mast element

Rotary



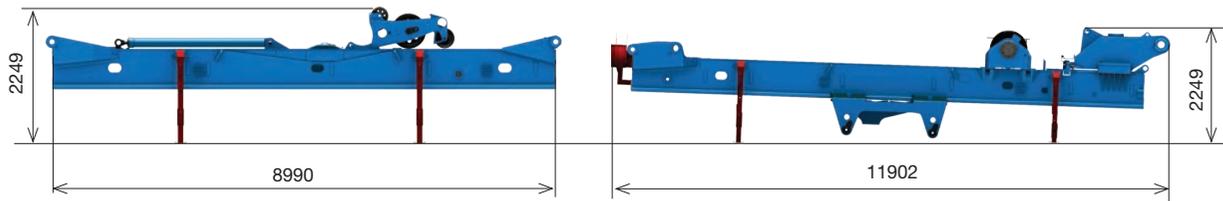
Rotary transport configuration

| | | |
|-------------------|---------|----------|
| Weight w/o cradle | 7000 kg | 15432 lb |
|-------------------|---------|----------|



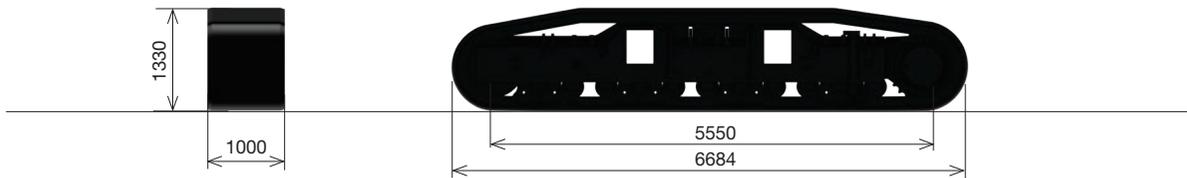
Transport configuration

| | | |
|-------------------------|-----------------|-------------------|
| Transport length | 11774 mm | 38.6 ft in |
| Transport weight | 7400 kg | 16314 lb |



Transport configuration

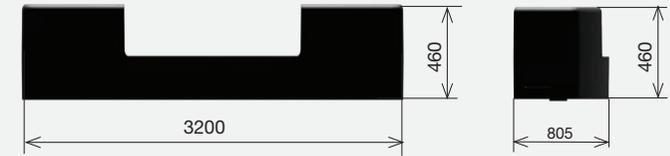
| | | | | |
|--|----------------|-----------------|-----------------|-----------------|
| Transport length | 8990 mm | 29.5 ft | 11902 mm | 39.0 ft |
| Transport weight for each element | 5600 kg | 12346 lb | 15800 kg | 34833 lb |



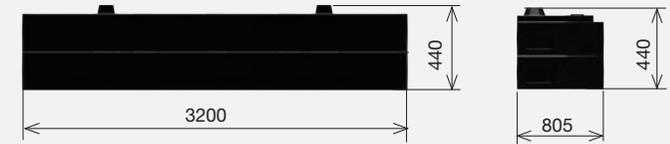
Transport configuration

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

Stackable counterweight



n.1 x 4 ton (8818 lb)



n.5 x 4,4 ton (9700 lb) standard

n.2 x 4,4 ton (9700 lb) for mast assembly phase

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

Transport stackable counterweight

| | | |
|--|-----------------|------------------|
| Transport length | 3200 mm | 10.5 ft |
| Counterweight | 4400 kg | 9700 lb |
| Counterweight | 4000 kg | 8818.5 lb |
| Total weight | 26000 kg | 57320 lb |
| Counterweight for mast assembly phase | 4400 kg | 9700 lb |

Technical data

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.

Undercarriage



| Undercarriage | | |
|---------------------------------------|---|---|
| Type | variable gauge, telescoping removable sides | variable gauge, telescoping removable sides |
| Overall width with retracted crawlers | 3500 mm | 138 in |
| Overall width with extended crawlers | 5200 mm | 205 in |
| Overall width with removed crawlers | 2980 mm | 117 in |
| Width of triple grouser track shoes | 1000 mm | 39 in |
| Overall length of crawlers | 6684 mm | 263 in |
| Traction force | 813 kN | 182766 lbf |
| Travelling speed | 0,8/1,59 km/h | 0.5 / 1 mph |

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 ¹ | EU stage V-US EPA Tier4f | EU stage V-US EPA Tier4f |
| Fuel tank capacity | 1048 l | 277 US gal |
| AD Blue tank capacity | 47 l | 12 US gal |

¹ US EPA Tier 3 available on request

Hydraulic system



| Hydraulic system | | |
|-----------------------------|--------------|-------------------|
| Main pumps flow | 2x 444 l/min | 2x 117 US gal/min |
| Third pump flow | 140 l/min | 37 US gal/min |
| Hydraulic oil tank capacity | 1175 l | 310 US gal |

Crowd system



| CCS_Cylinder Crowd System | | |
|----------------------------|--------------|-------------------|
| Stroke | 7650 mm | 301 in |
| Crowd force pull (down/up) | 345 / 412 kN | 77558 / 92620 lbf |
| Speed up | 20 m/min | 66 ft/min |
| Speed down | 20 m/min | 66 ft/min |

| WCS_Winch Crowd System | | |
|----------------------------|--------------|---------------------|
| Stroke | 24300 mm | 740 in |
| Crowd force pull (down/up) | 540 / 540 kN | 121395 / 121395 lbf |
| Speed up | 33 m/min | 108 ft/min |
| Speed down | 33 m/min | 108 ft/min |

Winches



| Main winch - standard | | |
|-----------------------------------|--------------------|--------------------|
| Type | controlled descent | controlled descent |
| Rope layers | 2 | 2 |
| Line pull (1 st layer) | 420 kN | 94418 lbf |
| Rope diameter | 36 mm | 740 in |
| Line speed (max) | 73 m/min | 240 ft/min |

Main winch - on request

| Type | controlled descent | controlled descent | controlled descent | controlled descent |
|-----------------------|--------------------|--------------------|--------------------|--------------------|
| Rope layers | 1 | 1 | 2 | 2 |
| Line pull (1st layer) | 470 kN | 105658 lbf | 470 kN | 105658 lbf |
| Rope diameter | 38 mm | 740 in | 38 mm | 740 in |
| Line speed (max.) | 65 m/min | 213 ft/min | 61 m/min | 200 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 | 740 in |
| Line speed (max.) | 71 m/min | 233 ft/min |

Noise

| | | |
|--|-----------------------|-----------------------|
| - Sound pressure level in cab c/w Tier 4f Engine | 78 dB(A) | 78 dB(A) |
| - Sound power level c/w Tier 4f Engine | 109 dB(A) | 109 dB(A) |
| - Vibration transmitted to the hand-arm system of the machine operator | < 2.5 /s ² | < 2.5 /s ² |
| - Vibration transmitted to the whole body of the machine operator | < 0.5 /s ² | < 0.5 /s ² |



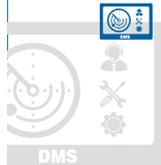
Cab



By assessing the specific application and listening properly to the wishes and requirements of the operators, Soilmec provides the optimal operator cab for comfort. Ergonomic seat with air suspension, fully adjustable, lumbar support, air management, as well as lines of sight, quality and safety are standard aspects considered during the design of the right configuration for the cabin.

| | | |
|--|---------|--------|
| Cabin width | 1050 mm | 3.4 ft |
| Sliding door | | |
| Courtesy lights | | |
| Air conditioning system and climate control unit | | |
| Radio player with USB aux port | | |

Controls



DMS control system, developed and manufactured by Soilmec - is designed to give you a total control over performance, production and all your drilling rigs. In real time all the information relating to the operation work cycles and diagnostics of faults are shown on a multi language touch screen display installed in the cab.

All drilling operations are actuated by two innovative joysticks.

Automatic controls of rotary head and drilling phases are available on request thanks to simple implementation of our DMS system.

Configurations

UNDERCARRIAGE

| | |
|--|---|
| Variable gauge, telescopic removable sides | ● |
| Stabilizers and ejector cylinders | ● |
| Radio remote control for dismounting tracks | ● |
| Mechanical prearrangement for casing oscillator | ● |
| Hydraulic prearrangement for casing oscillator (LDP) | ○ |
| VRM250KL casing oscillator (LDP) | ○ |
| Radio remote control for tramming operation | ● |

UPPER STRUCTURE

| | |
|---|---|
| Diesel engine CAT C18 ACERT 9 EU Stage IIIA – US EPA Tier 3 | ○ |
| Diesel engine CAT C18 ACERT 9 EU Stage V – US EPA Tier 4F | ● |
| Start and slow system | ● |
| Harness technology for electrical system | ● |
| Automatic greasing package | ● |
| PTO kit for washing lancer | ○ |
| Machine lifting kit (harbor use) | ○ |
| Foldable side catwalks for cabin 900 mm (35,4 in) | ● |
| Foldable catwalk with handrails | ○ |
| Acoustic & light alarm for tramming | ● |
| Lighting led system package | ○ |
| Sound proofed canopies | ● |
| Hydraulic prearrangement for additional technologies | ● |
| Concrete pipe on turret (CFA / DP / CAP) | ○ |
| Mast ladder with parachute | ○ |

CAB

| | |
|--|---|
| Front protective grille | ● |
| Falling object protective structure (FOPS) | ● |
| Lower front protective grille | ● |
| Rearview mirrors | ● |
| Comfort package | ● |
| 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 | ● |

CONTROL AND MONITORING SYSTEM

| | |
|--|---|
| DMS ON BOARD with technological package | ● |
| DMS PC | ● |
| DMS manager 4.0 | ○ |
| 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

| | |
|---|---|
| Main winch SW420 model - double layer | ● |
| Main winch SW470 model - single layer and 4 t (8818 lb) add ctw | ○ |
| Load cell for main winch | ○ |
| Limit switch for rope winding and winches | ○ |
| Depthmeter for main winch | ● |
| Anti-slack system for main winch (LDP) | ○ |
| Service winch SW130 model | ● |
| Load cell for service winch | ○ |

ROTARY UNIT

| | |
|--|---|
| Rotary unit with gear box.Max torque intermittent: 435 kNm (320839 lbs*ft) | ● |
| Replaceable drive ribs | ● |
| Quick disassembling rotary kit | ● |
| Automatic greasing kit for cradle | ● |
| Oil discharge conveying system | ○ |

MAST

| | |
|--|---|
| Mast guide cleaner | ○ |
| Upper foldable mast element | ● |
| Lower foldable mast element | ● |
| Pressure automatic control of lifting cylinders | ● |
| Cathead greasing kit (LDP) | ● |
| Concrete pipe on mast (CFA / DP / CAP) | ○ |
| Automatic greasing package for cathead | ● |
| Dismounting kit for mast assembly in transport condition | ○ |

KELLY BAR TECHNOLOGY

| | |
|---------------------------|---|
| Rotary sleeve with 6 ribs | ● |
| Cardan joint | ● |

| | |
|--|---|
| Flange for casing driving d.1500 mm (59 in) | ○ |
| Flange for casing driving d.2000 mm (66.9 in) | ○ |
| Flange for casing driving d.2500 mm (98.4 in) | ● |
| Flange for casing driving d.3000 mm (118.1 in) | ○ |
| Automatic return to the centre hole | ○ |
| Automatic greasing kit for winch crowd (WCS) | ○ |
| Telescopic mast foot (WCS) | ● |
| Drilling axis 1550 mm (from 61 in) | ● |
| Variable drilling axis from 1550 mm to 1800 mm (from 61 in to 70 in) | ○ |

OTHER TECHNOLOGIES

| | |
|--|---|
| Sleeve 6 m (19.6 ft) long 25HD-5 (4 lines pull) | ○ |
| Sleeve 8,5 (27.8 ft) m long 25HD-5 | ○ |
| Package for CFA 32,5 m (107 ft) auger length (QC) | ● |
| Package for CFA 34,5 m (113 ft) auger length (4-lines pull) | ● |
| Package for CFA 38,5 m (126 ft) auger length (4-lines pull) | ○ |
| DMS ON BOARD with automatic auger lifting | ● |
| Autodrilling package | ○ |
| Autorotary package | ○ |
| Automatic greasing kit for sheeves block | ● |
| Additional pull-down winch | ○ |
| Hydraulic universal openable lower guide d.1200 mm (47.2 in) | ● |
| Auger cleaner star type | ○ |
| Double roller auger cleaner d.1200 mm (47.2 in) | ○ |
| Two pressure transducers kit | ● |
| Hydraulic prearrangement for VTH-1 vibrator | ○ |
| Additional package for CSP technology 22,5 m (74 ft) cased depth (4-lines pull) | ○ |
| Additional package for special CSP technology 26,7 m (87.5 ft) cased depth (4-lines pull extended) | ○ |
| Additional package for CSP technology 21,3 m (70 ft) cased depth (QC) | ○ |
| Lattice mast extension for DP/TCT and TJ technology (QC) | ○ |
| Additional package for DP/TCT technology: 39 m (128 ft) depth with lattice extension (QC) | ○ |
| Additional package for TJ technology: 39 m (128 ft) depth with lattice extension (QC) | ○ |

● standard ○ optional

A close-up photograph of a muddy tire tread on a dirt surface. The tire is on the left side of the frame, and the mud is dark brown and textured. The background is blurred, showing more of the dirt and a hint of a blue object.

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#muddyboots