SR-50

Hydraulic
Rotary Rig

LDP
CFA
BFS
DP

Hydraulic Rotary Rig **SR-50**

soilmeco
Drilling and Foundation Equipment

Rotary

Soilmec rotaries are designed and manufactured to meet the need for increased production and performance on various applications, with the added benefit of increased component life and reliability.

Ease of transport and quick assembly

- Crawlers can be retracted to respect transport requirements.

Compact powerful engine

Soilmec installs large displacement engines, providing exceptional performance and reliability.

- High performance, availability and reliability by using tried-and-tested technology with high power-to volume-ratio.
- The modern electronic injection system ensures low fuel consumption and therefore low operating costs.
- Low noise emissions, smooth running characteristics and durability.
- Meets exhaust emission regulations 2004/26/EU, Step III A and US-EPA Tier 3.

DMS control system

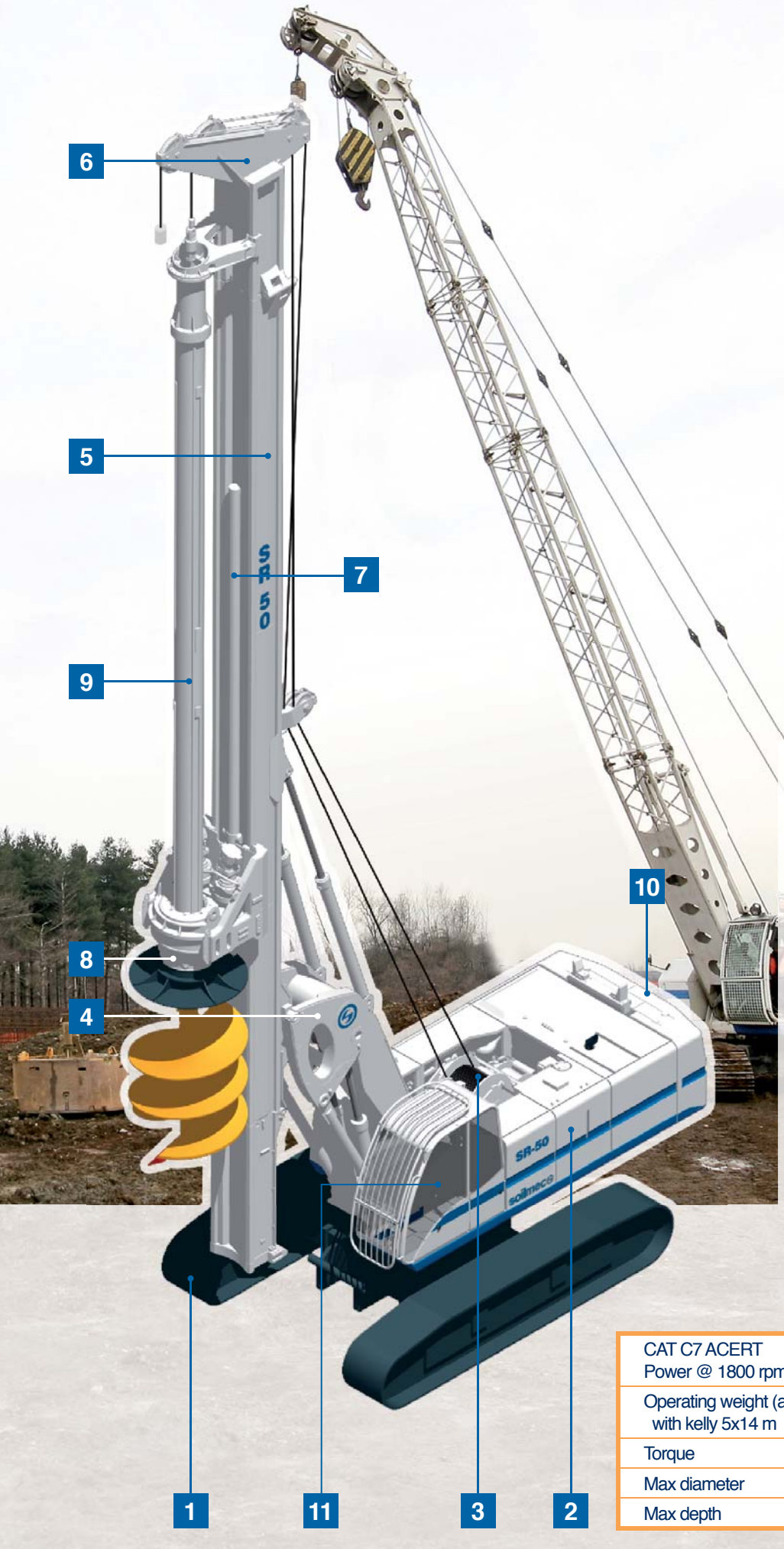
DMS is an innovative system, developed by Soilmec, which controls and monitors the operation of the machine. For ease of operation the system is controlled by a touch screen located in the cab. The system main function, is to enable the machine to perform different functions more efficiently.
A dedicated power module electronic control system ensures the main pumps and Diesel engine to work at their most effective and productive levels.

Ergonomic design

The cab is designed to be spacious, quiet and comfortable for the operator, assuring high productivity throughout the working day.

The Soilmec advantage

- A real multifunctional machine, designed from scratch to give you the best drilling solution.
- Long life expectancy with a high residual value.
- Best price/performance ratio.
- Built with the customer in mind.



1. Undercarriage
2. Turret
3. Winches
4. Parallelogram system
5. Self erecting mast
6. Cathead
7. Crowd system
8. Rotary head
9. Telescopic kelly bar
10. Counterweight
11. Cab

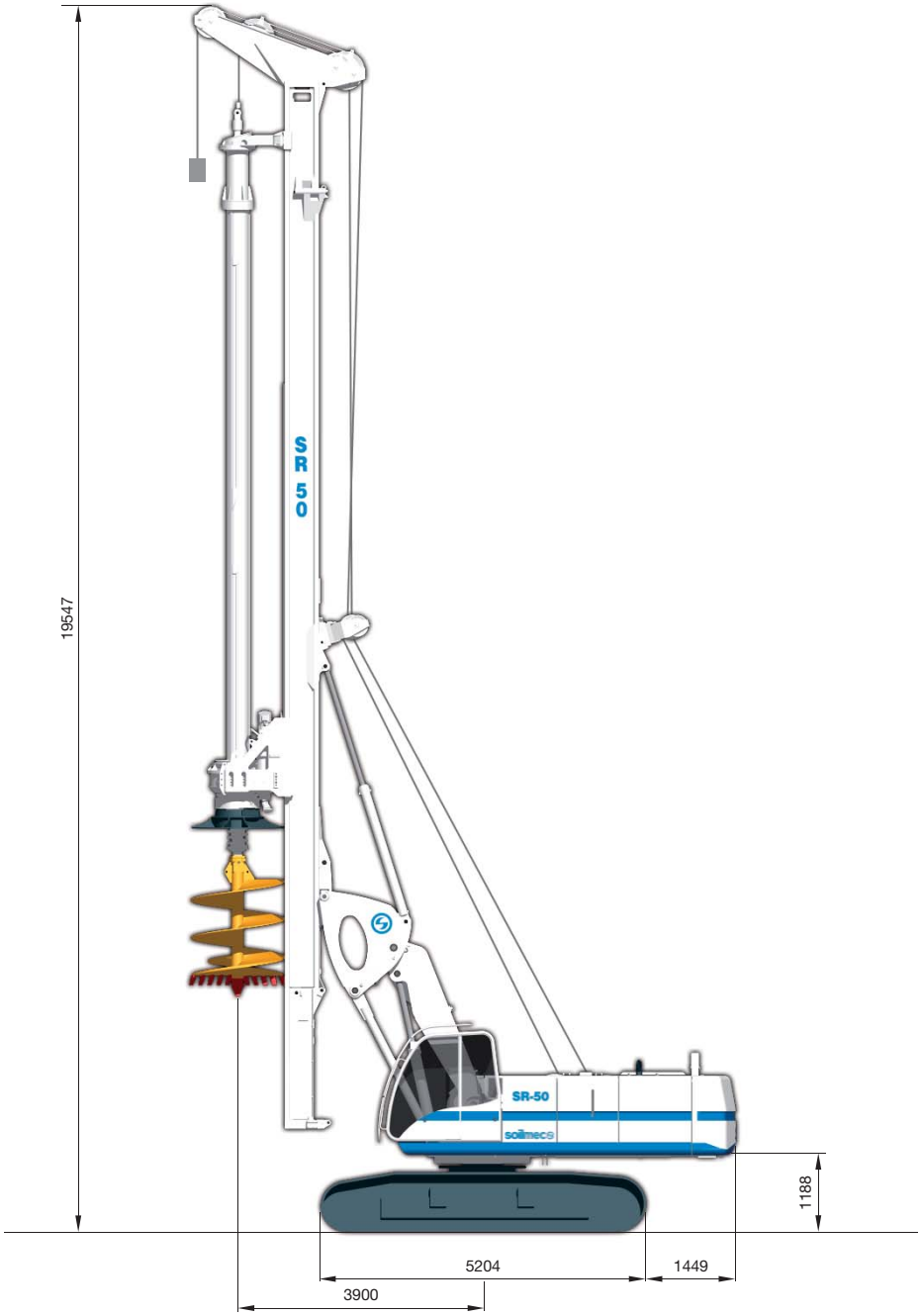
CAT C7 ACERT Power @ 1800 rpm	**210 kW**	*281 HP*
Operating weight (approx) with kelly 5x14 m	**55300 kg**	*121914 lb*
Torque	**180 kNm**	*132759 lbf*ft*
Max diameter	**2000 mm**	*79 in*
Max depth	**63 m**	*206.7 ft*

LDP - KELLY DRILLING SYSTEM

Crowd Cylinder Version - D. 406 mm

The hydraulic drilling rig SR-50 has been specially designed for suiting the following applications:

- **cased bored** piles with casing driven directly by rotary head and by casing oscillator powered by the base carrier itself;
- **deep uncased bored piles** stabilized by drilling fluid or dry hole;
- **CFA (Continuous Flight Auger)** piles by means of long auger string;
- **BFS (Bottom Feed System)** for dry bottom feed stone column installation;
- **DP (Displacement Piles)** *on demand.*



DMS - Drilling Mate System

The SR-50 in kelly version is equipped with the DRILLING MATE SYSTEM (DMS) on 12" touch screen to monitor and control the operating parameters. The standard DMS equipment is composed of:

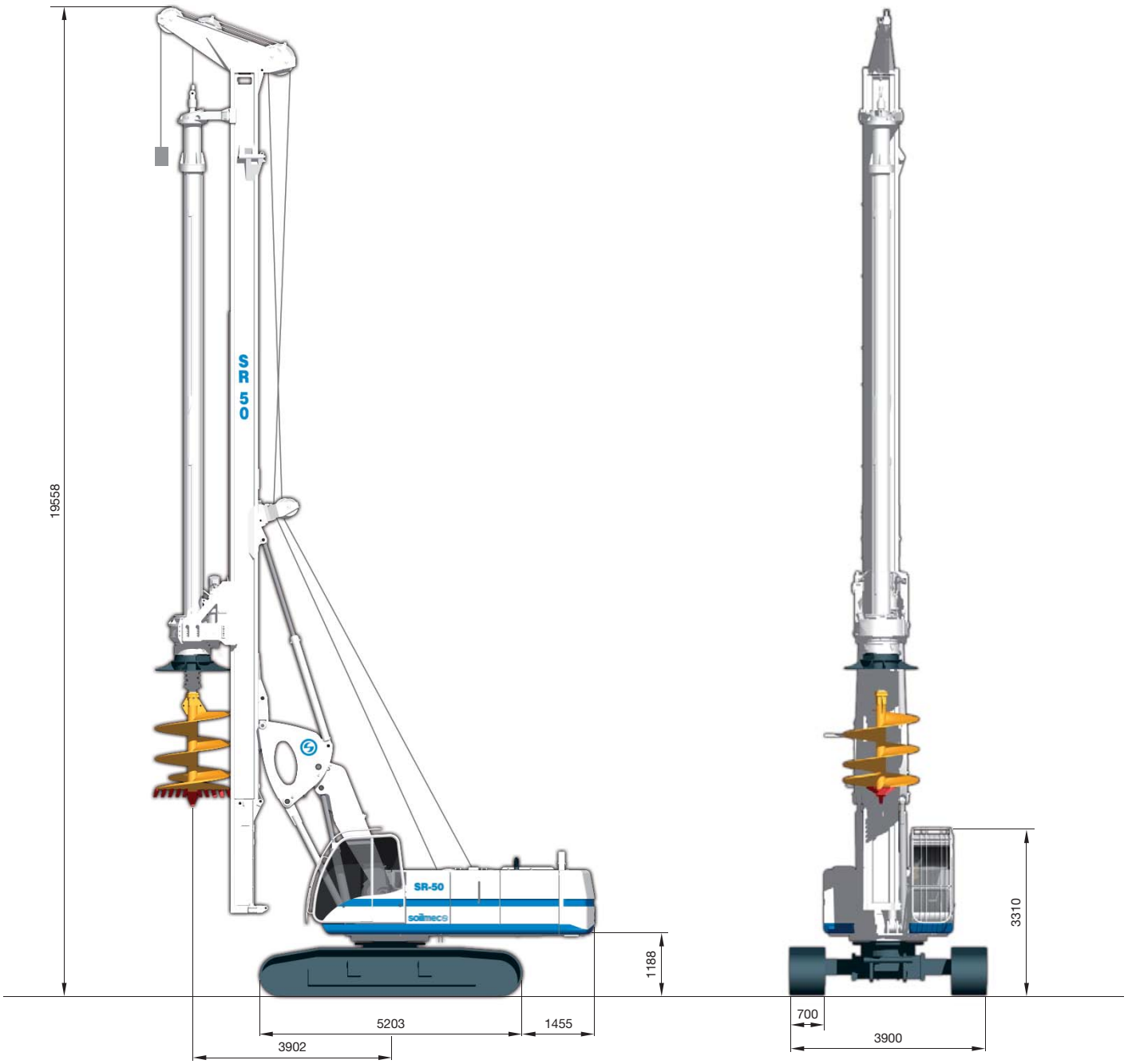
- **PLC** controller for all electrically actuated functions
- fault checking and reporting
- monitor unit designed to display:
  - engine information and diagnostic capability
  - pump pressures
  - mast verticality
  - drilling depth
  - rotary speed and pressure
  - crowd pressure
  - graphics drilling charts.

The following additional optional features are available:

- automatic turret hole centering
- automatic mast vertical alignment
- operating data storage on memory card
- DMS PC software package for production data analysis and job site daily reporting
- DMS MANAGER for remote control and transmission of process and operating data and tele assistance.

DMS
DRILLING MATE SYSTEM

Crowd Cylinder Version - D. 355 mm




Crowd cylinder version


Bottom feed system version

TECHNICAL DATA

	Crowd Cylinder D. 406 mm		Crowd Cylinder D. 355 mm	
Overall height	**19558 mm**	*770 in*	**19558 mm**	*770 in*
Operating weight (approx) with kelly 4x12	**54000 kg**	*119048 lb*	**52000 kg**	*114639 lb*
Rotary Drive - Single gear version				
- Torque	**180 kNm**	*132759 lbf*ft*	**161 kNm**	*118746 lbf*ft*
- Speed of rotation (max)	**29 rpm**	*29.0 rpm*	**27 rpm**	*27 rpm*
- Spinoff speed	**154 rpm**	*154.0 rpm*	**169 rpm**	*169 rpm*
Rotary Drive - Multi gear version				
- Torque	**-**	-	**161 kNm**	*118746 lbf*ft*
- Speed of rotation (max)	**-**	-	**48 rpm**	*48 rpm*
- Spinoff speed	**-**	-	**101 rpm**	*101 rpm*
Crowd system				
- Crowd force pull down	**122 kN**	*27426 lbf*	**122 kN**	*27426 lbf*
- Crowd force pull up	**220 kN**	*49457 lbf*	**220 kN**	*49457 lbf*
- Stroke (kelly system)	**5100 mm**	*201 in*	**5100 mm**	*201 in*
- Stroke (CFA system)	**15400 mm**	*606 in*	**15250 mm**	*600 in*
- Speed down	**6,0 m/min**	*19.7 ft/min*	**6,0 m/min**	*19.7 ft/min*
- Speed up	**15,0 m/min**	*49.2 ft/min*	**15,0 m/min**	*49.2 ft/min*
- Fast speed up	**15,0 m/min**	*49.2 ft/min*	**15,0 m/min**	*49.2 ft/min*
- Fast speed down	**12,7 m/min**	*41.7 ft/min*	**12,7 m/min**	*41.7 ft/min*
Main winch	**controlled descent**	*controlled descent*	**controlled descent**	*controlled descent*
- Line pull (1st layer)	**185 kN**	*41589 lbf*	**185 kN**	*41589 lbf*
- Rope diameter/lenght	**24 mm/112 m**	*1.0 in/368 ft*	**24 mm/112 m**	*1.0 in/368 ft*
- Line speed (max.)	**63 m/min**	*207 ft/min*	**63 m/min**	*207 ft/min*
Auxiliary winch	**controlled descent**	*controlled descent*	**controlled descent**	*controlled descent*
- Line pull (1st layer)	**75 kN**	*16860 lbf*	**75 kN**	*16860 lbf*
- Rope diameter	**18 mm**	*0.71 in*	**18 mm**	*0.71 in*
- Line speed (max.)	**62 m/min**	*203 ft/min*	**62 m/min**	*203 ft/min*
Mast inclination				
- Backward / Forward / Lateral	**10 ° / 4 ° / 3 °**	*10 °/ 4 ° / 3 °*	**10 ° / 4 ° / 3 °**	*10 °/ 4 ° / 3 °*

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

Standard Equipment

- Rotary drive spin-off type
- Main winch controlled descend type
- Main winch drum special grooving
- Hoist limit switch on main and auxiliary winches
- Swivel for main rope
- Crowd in fast or slow mode

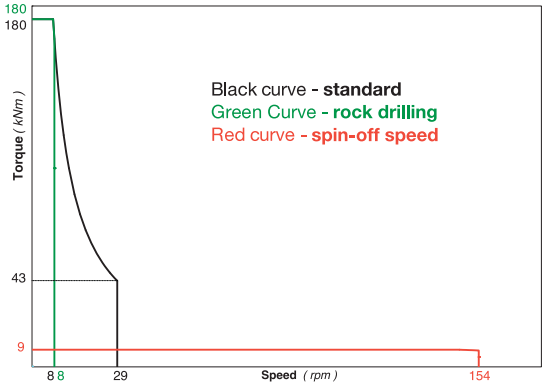
Measuring and control equipment

- PLC processor for all electrically actuated functions
- DMS system electronic monitoring and visualization system
- Mast inclination measurement on X/Y axes (digital/analog display)
- Automatic vertical alignment of mast
- Depth measuring device on main winch
- Speed measuring device on rotary

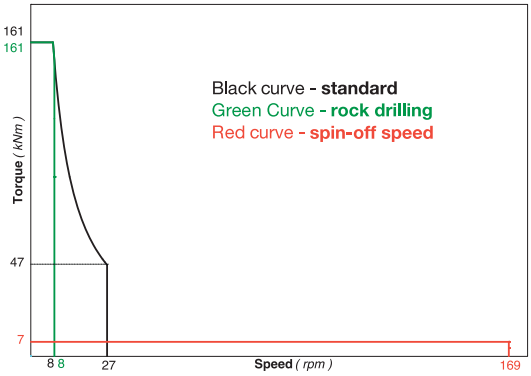
Large diameter drilling

TECHNICAL DATA - ROTARY DRIVE

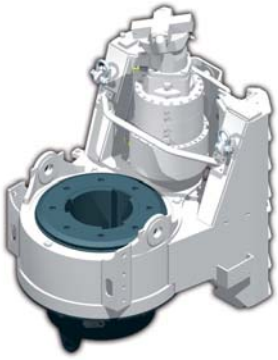
Rotary RD-170 ø 406

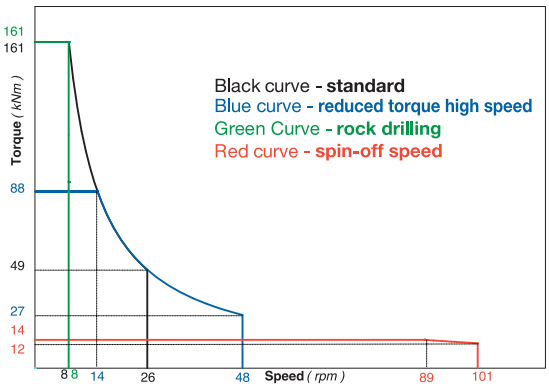


Rotary RD-160 ø 355

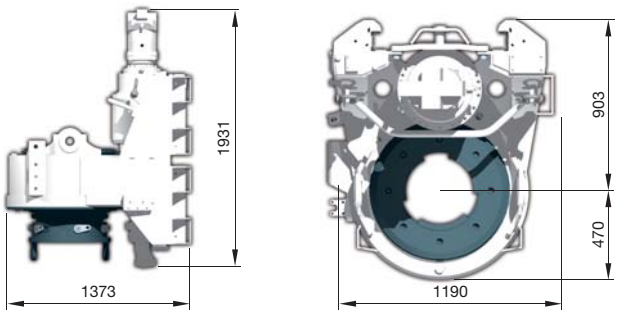


Rotary RD-160 G ø 355



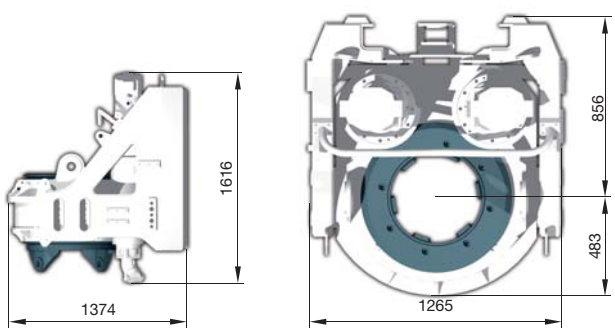


RD-160 ø 355



Rotary	Weight	*Weight*
Single gear version diam. 355	**3300 kg**	*7275 lbs*
Multi gear version diam. 355	**3400 kg**	*7495 lbs*

RD-170 ø 406



Rotary	Weight	*Weight*
Single gear version diam. 406	**3800 kg**	*8377 lbs*

TECHNICAL DATA - BASE CARRIER

Engine	**CATERPILLAR C7 ACERT**	***CATERPILLAR C7 ACERT***
- Rated output ISO 3046-I	**210 kW @ 1800 rpm**	*281 HP @ 1800 rpm*
- Engine conforms to Exhaust emission Standard	**EU stage III A, EPA CARB Tier 3**	*EU stage III A, EPA CARB Tier 3*
- Diesel tank capacity	**400 l**	*106 US gal*
- Sound pressure level in cabin (EN791 Annex A)	**80 dB (A)**	*80 dB (A)*
- Sound power level (2000/14EG u. EN791, Annex A)	**109 dB (A)**	*109 dB (A)*
Hydraulic system		
- Hydraulic pressure	**350 bar**	*5076 psi*
- Flow rates (main circuits)	**2x 230 l/min**	*2x 61 US gal/min*
- Hydraulic oil tank capacity	**446 l**	*116 US gal*
Undercarriage (retractable crawler frames)		
- Crawler type	**D5**	*D5*
- Overall width of crawlers retracted/extended	**2500/3900 mm**	*99/153 in*
- Width of triple grouser track shoes	**700 mm**	*28 in*
- Overall length of crawlers	**5200 mm**	*205 in*
- Traction force	**410 kN**	*92171 lbf*
- Travel speed	**2,3 km/h**	*1,4 mph*

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


Continuous flight auger version

Crowd cylinder version

Standard equipment

- Engine emergency operation mode
- Engine diagnostic system
- Diagnostic panel for hydraulic functions
- Transport securing rods on crawler units
- Access ladder on uppercarriage
- On-board lighting set
- On-board tool set
- Electric refuelling pump
- High-comfort operator's cab (width: 850 mm)
- Protective roof grate (FOPS compliant)
- Air conditioning system
- Radio and CD player

Optional equipment

Base carrier
- Bio-degradable oil
- Pressurized air conditioning system

Drilling Equipment
- Swivel for auxiliary rope
- Central lubrication system
- Videocamera set

DMS

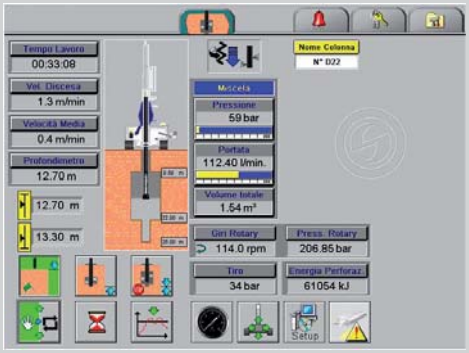
DRILLING MATE SYSTEM

Soilmec innovative DMS - Drilling Mate System - has been designed to incorporate:

- CAN OPEN bus system
- colour touch screen suitable for the drilling field

DMS consists of 3 items:

- **DMS**
- **DMS PC**
- **DMS MANAGER**



DMS Drilling Mate System

For jet grouting works monitoring, Soilmec micro drilling rigs are provided (on demand) with DMS-jet which is an optional package including sensors to be fitted on the rig, PLC and touch screen.

The system follows the main process parameters:

- drilling depth
- drilling head revolution speed
- drilling head torque
- crowd force
- extraction force
- drilling energy
- feed speed
- hoist speed
- grout pressure
- grout delivery
- air pressure
- air delivery
- working time
- drilling mast position

During the treatment, most significant data are displayed on monitor allowing the driller to operate and follow the consolidation job. For each column, complete data are stored on a USB key. They also can be sent (on driver request) by e-mail in the form of attached file, through the DMS modem, (GSM/GPRS EDGE) to customer office.

DMS send also alarms concerning groups involved in the process.

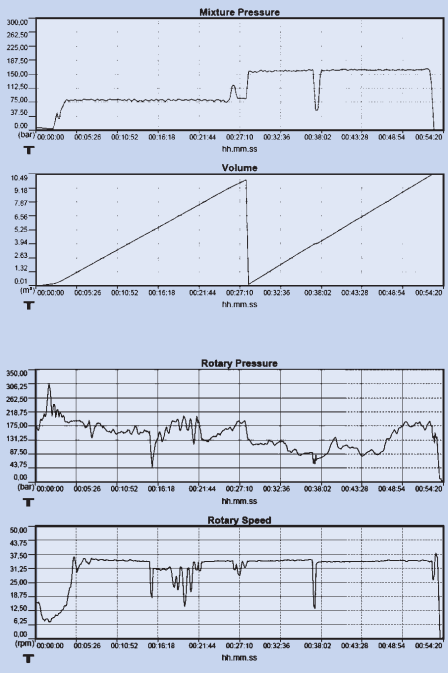
Data are raw and machine language formatted, they have therefore to be converted for PC use.

DMS PC

DMS PC is soilmec specific software to be installed on customer's PC for raw data conversion. It allows the customer to read, edit and compute the treatment data by means of the most usual softwares.

DMS PC allows editing daily production reports under the form of diagrams and daily report, to document compliance of execution works with job specifications.

DMS PC allows also establishing statistical analysis to follow day by day the job site return.



DMS Manager

A system designed for surveying a machines fleet. It includes a dedicated server and software. It enables access to, through internet, permanent contact with the rig, receiving in real time, alarms as well as production data sent by the machines (GPRS modem, satellite).

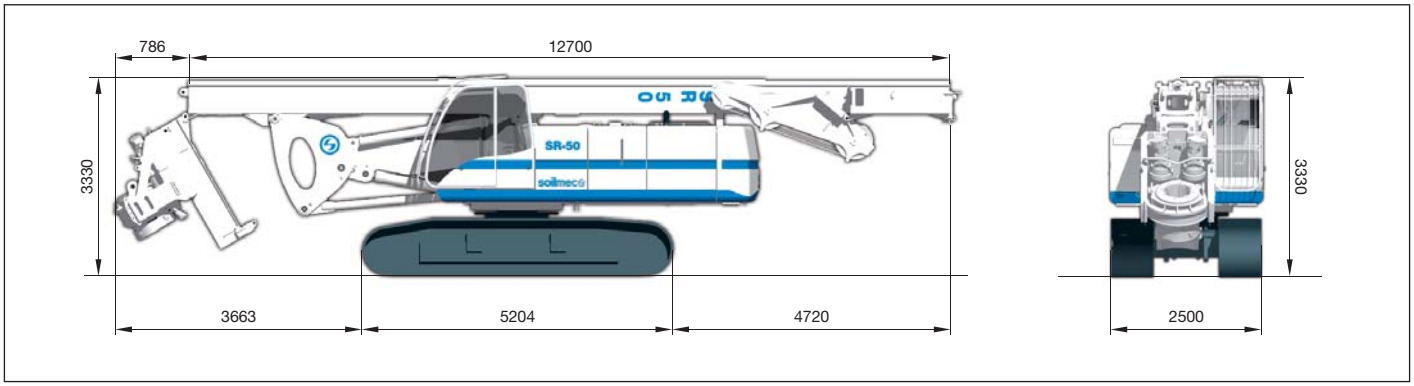
Spare Part Online Center (SPOC)

Although not specifically engineered for DMS, the package enhances the instrumentation since customers can optimize the management of their rigs.

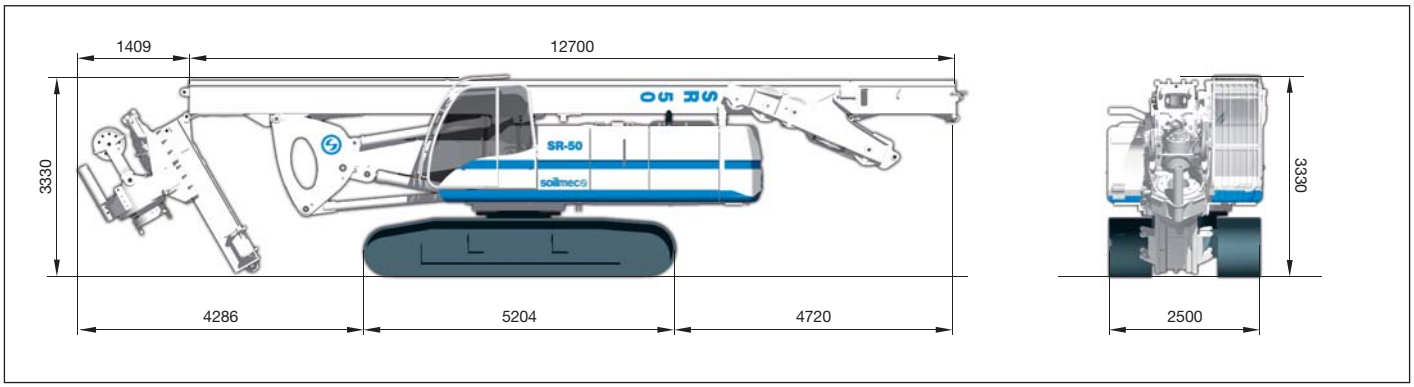
In fact this online system offers:

- consultation and downloading of rig documentation, e.g. user and maintenance manuals electrical/hydraulic drawings, DMS manuals, technical documentation, etc.
- placement and management of purchase orders for spare parts.
- real time availability of components of spare parts.

TRANSPORT DATA

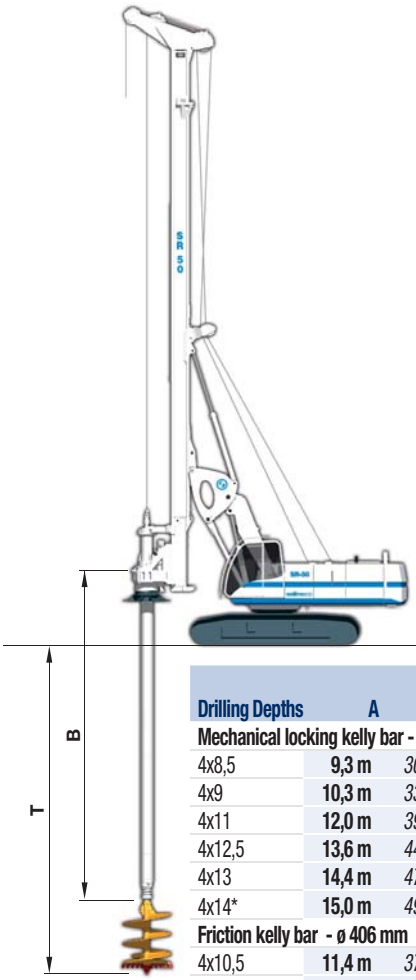


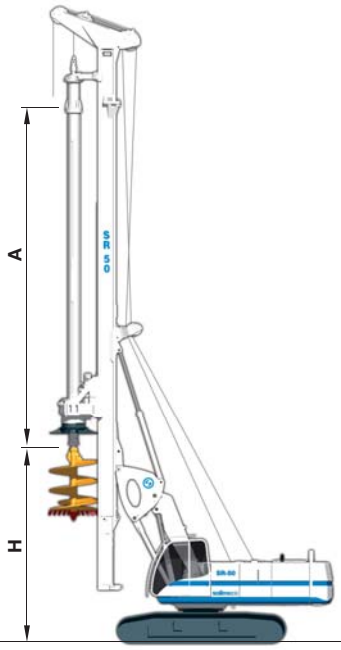
Transport LDP version Weight **46000 kg** *101512 lb*



Transport CFA version Weight **47400 kg** *104500 lb*

LDP - Kelly Drilling System





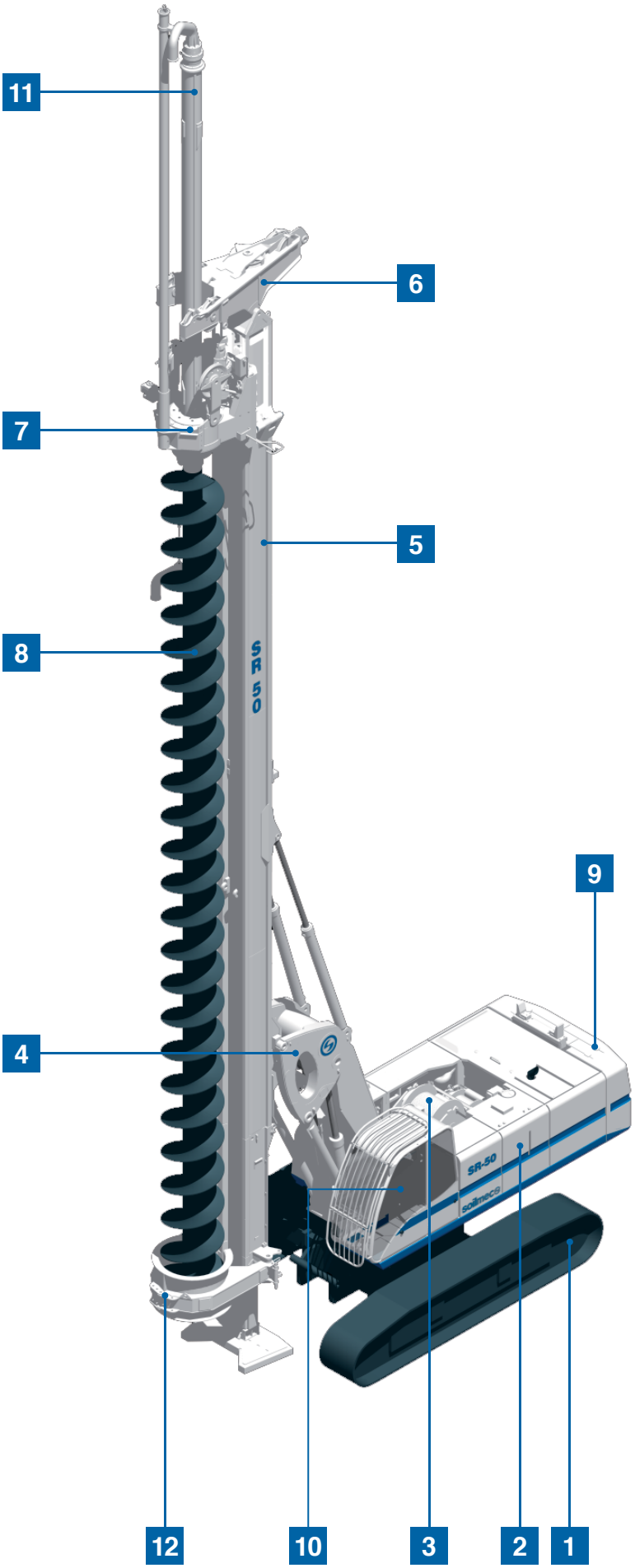
Drilling Depths	A		B		Weight		PULL DOWN IN LOW POSITION H		T		PULL DOWN IN HIGH POSITION H		T	
Mechanical locking kelly bar - ø 406 mm														
4x8,5	**9,3 m**	*30.6 ft*	**30,2 m**	*99.1 ft*	**4900 kg**	*10803 lb*	**6,0 m**	*19.7 ft*	**29,3 m**	*96.0 ft*	*8,1 m*	*26.6 ft*	*27,2 m*	*89.1 ft*
4x9	**10,3 m**	*33.6 ft*	**33,3 m**	*109.3 ft*	**5100 kg**	*11243 lb*	**6,0 m**	*19.7 ft*	**32,4 m**	*106.2 ft*	*7,7 m*	*25.2 ft*	*30,3 m*	*99.3 ft*
4x11	**12,0 m**	*39.4 ft*	**40,1 m**	*131.6 ft*	**6100 kg**	*13448 lb*	**5,9 m**	*19.5 ft*	**39,2 m**	*128.5 ft*	*5,9 m*	*19.5 ft*	*37,1 m*	*121.6 ft*
4x12,5	**13,6 m**	*44.5 ft*	**46,3 m**	*151.9 ft*	**6800 kg**	*14991 lb*	**4,4 m**	*14.4 ft*	**45,4 m**	*148.8 ft*	-	-	-	-
4x13	**14,4 m**	*47.4 ft*	**49,8 m**	*163.4 ft*	**7000 kg**	*15432 lb*	**3,5 m**	*11.5 ft*	**48,9 m**	*160.3 ft*	-	-	-	-
4x14*	**15,0 m**	*49.2 ft*	**52,7 m**	*172.9 ft*	**7500 kg**	*16535 lb*	**2,9 m**	*9.6 ft*	**51,8 m**	*169.8 ft*	-	-	-	-
Friction kelly bar - ø 406 mm														
4x10,5	**11,4 m**	*37.5 ft*	**38,4 m**	*126.0 ft*	**5800 kg**	*12787 lb*	**6,0 m**	*19.7 ft*	**37,5 m**	*122.9 ft*	*6,5 m*	*21.4 ft*	*35,4 m*	*116.0 ft*
4x11	**12,3 m**	*39.4 ft*	**40,8 m**	*127.0 ft*	**6100 kg**	*12787 lb*	**5,7 m**	*19.5 ft*	**39,9 m**	*123.9 ft*	*5,7 m*	*18.6 ft*	*37,8 m*	*123.9 ft*
4x11,5	**12,8 m**	*42.0 ft*	**42,8 m**	*140.4 ft*	**6300 kg**	*13889 lb*	**5,2 m**	*16.9 ft*	**41,9 m**	*137.3 ft*	*5,2 m*	*16.9 ft*	*39,8 m*	*130.4 ft*
4x13,5	**14,6 m**	*47.8 ft*	**51,1 m**	*167.6 ft*	**7300 kg**	*16094 lb*	**3,4 m**	*11.1 ft*	**50,2 m**	*164.6 ft*	-	-	-	-
5x10,5*	**11,3 m**	*37.1 ft*	**47,7 m**	*156.5 ft*	**6100 kg**	*13448 lb*	**6,0 m**	*19.7 ft*	**46,8 m**	*153.4 ft*	*6,6 m*	*21.8 ft*	*44,7 m*	*146.5 ft*
5x11*	**12,0 m**	*39.4 ft*	**50,0 m**	*164.0 ft*	**6400 kg**	*14109 lb*	**5,9 m**	*19.5 ft*	**49,1 m**	*161.0 ft*	*5,9 m*	*19.5 ft*	*47,0 m*	*154.0 ft*
5x11,5*	**12,4 m**	*40.8 ft*	**53,1 m**	*174.2 ft*	**6600 kg**	*14550 lb*	**5,5 m**	*18.1 ft*	**52,2 m**	*171.1 ft*	*5,5 m*	*18.1 ft*	*50,1 m*	*164.2 ft*
5x12*	**13,0 m**	*42.7 ft*	**55,0 m**	*180.4 ft*	**6800 kg**	*14991 lb*	**4,9 m**	*16.2 ft*	**54,1 m**	*177.4 ft*	*4,9 m*	*16.2 ft*	*52,0 m*	*170.5 ft*
4x13*	**14,4 m**	*47.3 ft*	**62,2 m**	*204.1 ft*	**7300 kg**	*16094 lb*	**3,5 m**	*11.6 ft*	**61,3 m**	*201.0 ft*	-	-	-	-
5x13,5*	**14,4 m**	*47.4 ft*	**63,5 m**	*208.3 ft*	**7600 kg**	*16755 lb*	**3,5 m**	*11.5 ft*	**62,6 m**	*205.2 ft*	-	-	-	-
5x14*	**14,8 m**	*48.7 ft*	**63,8 m**	*209.3 ft*	**7600 kg**	*16755 lb*	**3,1 m**	*10.2 ft*	**62,9 m**	*206.2 ft*	-	-	-	-
Mechanical locking kelly bar - ø 355 mm														
3x8	**9,1 m**	*29.9 ft*	**22,5 m**	*73.8 ft*	**3100 kg**	*6834 lb*	**6,0 m**	*19.7 ft*	**21,6 m**	*70.7 ft*	*8,1 m*	*26.6 ft*	*19,5 m*	*63.8 ft*
4x6	**6,7 m**	*21.9 ft*	**20,0 m**	*65.6 ft*	**2500 kg**	*5512 lb*	**6,0 m**	*19.7 ft*	**19,1 m**	*62.5 ft*	*8,1 m*	*26.6 ft*	*17,0 m*	*55.6 ft*
4x8	**9,4 m**	*30.7 ft*	**30,2 m**	*99.1 ft*	**3100 kg**	*6834 lb*	**6,0 m**	*19.7 ft*	**29,3 m**	*96.0 ft*	*8,1 m*	*26.6 ft*	*27,2 m*	*89.1 ft*
4x9	**10,2 m**	*33.4 ft*	**33,2 m**	*108.9 ft*	**3400 kg**	*7496 lb*	**6,0 m**	*19.7 ft*	**32,3 m**	*105.8 ft*	*7,8 m*	*25.5 ft*	*30,2 m*	*98.9 ft*
4x10,5	**11,8 m**	*38.7 ft*	**39,8 m**	*130.6 ft*	**3900 kg**	*8598 lb*	**6,0 m**	*19.7 ft*	**38,9 m**	*127.5 ft*	*6,2 m*	*20.2 ft*	*36,8 m*	*120.6 ft*
4x12	**13,4 m**	*43.8 ft*	**46,0 m**	*150.9 ft*	**4300 kg**	*9480 lb*	**4,6 m**	*15.1 ft*	**45,1 m**	*147.8 ft*	-	-	-	-
4x13	**14,0 m**	*45.9 ft*	**49,5 m**	*162.4 ft*	**4600 kg**	*10141 lb*	**4,0 m**	*13.0 ft*	**48,6 m**	*159.3 ft*	-	-	-	-
Friction kelly bar- ø 355 mm														
4x9	**10,0 m**	*32.8 ft*	**33,5 m**	*109.9 ft*	**3100 kg**	*6834 lb*	**6,0 m**	*19.7 ft*	**32,6 m**	*106.8 ft*	*8,0 m*	*26.1 ft*	*30,5 m*	*99.9 ft*
4x11	**11,6 m**	*38.2 ft*	**40,1 m**	*131.6 ft*	**4000 kg**	*8818 lb*	**6,0 m**	*19.7 ft*	**39,2 m**	*128.5 ft*	*6,3 m*	*20.7 ft*	*37,1 m*	*121.6 ft*
4x12	**12,9 m**	*42.2 ft*	**46,0 m**	*150.9 ft*	**4600 kg**	*10141 lb*	**5,1 m**	*16.7 ft*	**45,1 m**	*147.8 ft*	*5,1 m*	*16.7 ft*	*43,0 m*	*140.9 ft*
5x8,5*	**9,6 m**	*31.6 ft*	**39,8 m**	*130.6 ft*	**3900 kg**	*8598 lb*	**6,0 m**	*19.7 ft*	**38,9 m**	*127.5 ft*	*8,1 m*	*26.6 ft*	*36,8 m*	*120.6 ft*
5x9*	**10,0 m**	*32.8 ft*	**41,3 m**	*135.5 ft*	**4100 kg**	*9039 lb*	**6,0 m**	*19.7 ft*	**40,4 m**	*132.4 ft*	*8,0 m*	*26.1 ft*	*38,3 m*	*125.5 ft*
5x9,5*	**10,4 m**	*34.1 ft*	**43,6 m**	*143.0 ft*	**4300 kg**	*9480 lb*	**6,0 m**	*19.7 ft*	**42,7 m**	*140.0 ft*	*7,6 m*	*24.8 ft*	*40,6 m*	*133.1 ft*
5x10*	**11,0 m**	*36.1 ft*	**46,6 m**	*152.9 ft*	**4400 kg**	*9700 lb*	**6,0 m**	*19.7 ft*	**45,7 m**	*149.8 ft*	*7,0 m*	*22.8 ft*	*43,6 m*	*142.9 ft*
5x11*	**11,6 m**	*38.2 ft*	**49,7 m**	*163.1 ft*	**4800 kg**	*10582 lb*	**6,0 m**	*19.7 ft*	**48,8 m**	*160.0 ft*	*6,3 m*	*20.7 ft*	*46,7 m*	*153.1 ft*
5x12*	**12,9 m**	*42.2 ft*	**56,0 m**	*183.7 ft*	**5200 kg**	*11464 lb*	**5,1 m**	*16.7 ft*	**55,1 m**	*180.6 ft*	*5,1 m*	*16.7 ft*	*53,0 m*	*173.7 ft*
5x13*	**14,0 m**	*45.8 ft*	**61,4 m**	*201.4 ft*	**5500 kg**	*12125 lb*	**4,0 m**	*13.1 ft*	**60,5 m**	*198.4 ft*	-	-	-	-

*** rotary torque to be reset**

Drilling Diameters	CYLINDER	
Uncased	**1500 (2000) mm**	*78.7 (98.4) in*
Cased	**1300 mm**	*78.7 in*

APPLICATION

CFA - Continuous Flight Auger



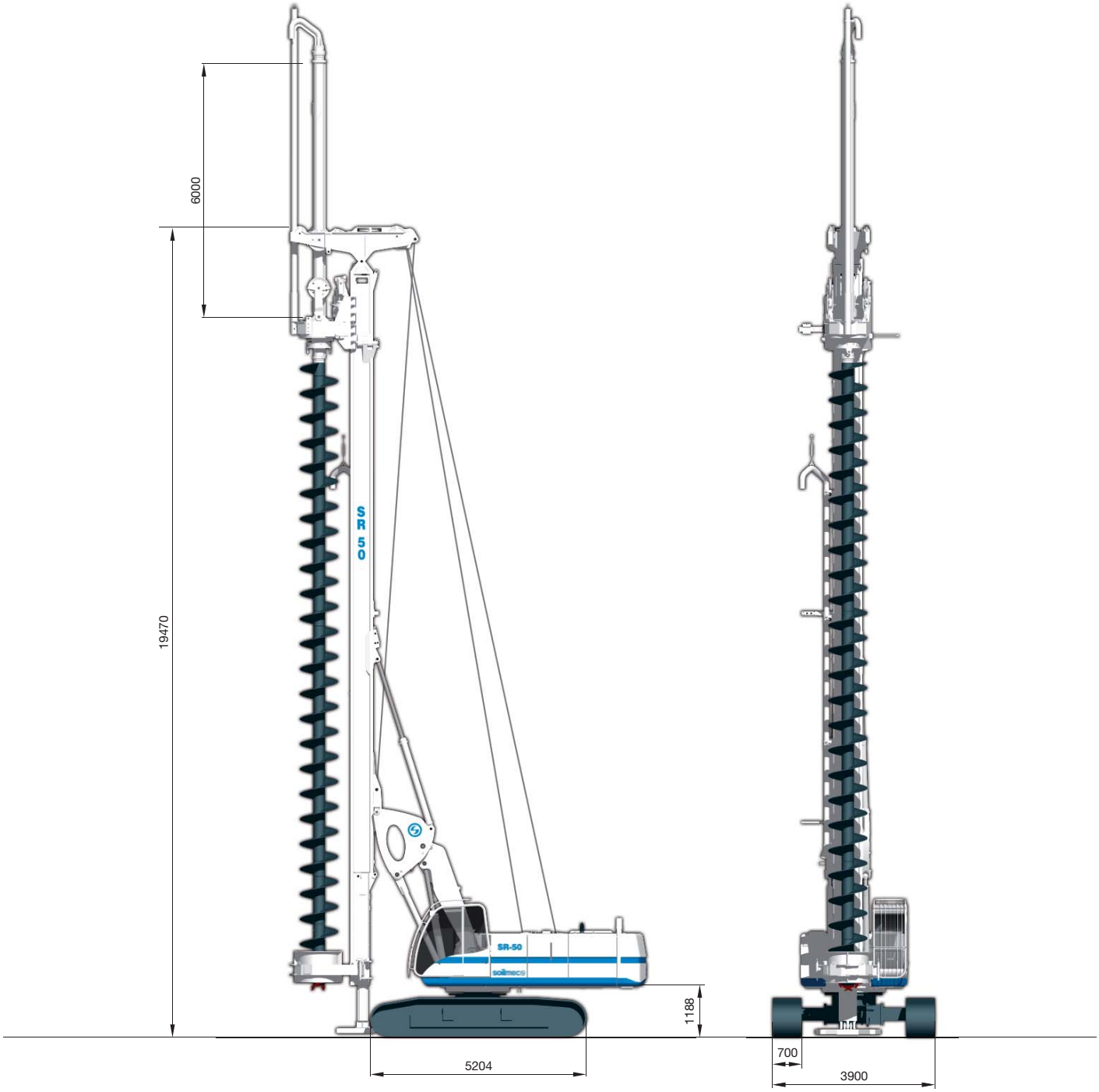
The **CFA** method is appreciated because it is:

- a quick and cost effective method
- free of vibration and relatively quiet
- easily adaptable to varying ground conditions.

1. Undercarriage
2. Turret
3. Winches
4. Parellelogram system
5. Self erecting mast
6. Cathead
7. Rotary head
8. Auger
9. Counterweight
10. Cab
11. Auger extension
12. Openable lower guide

APPLICATION

CFA - Continuous Flight Auger

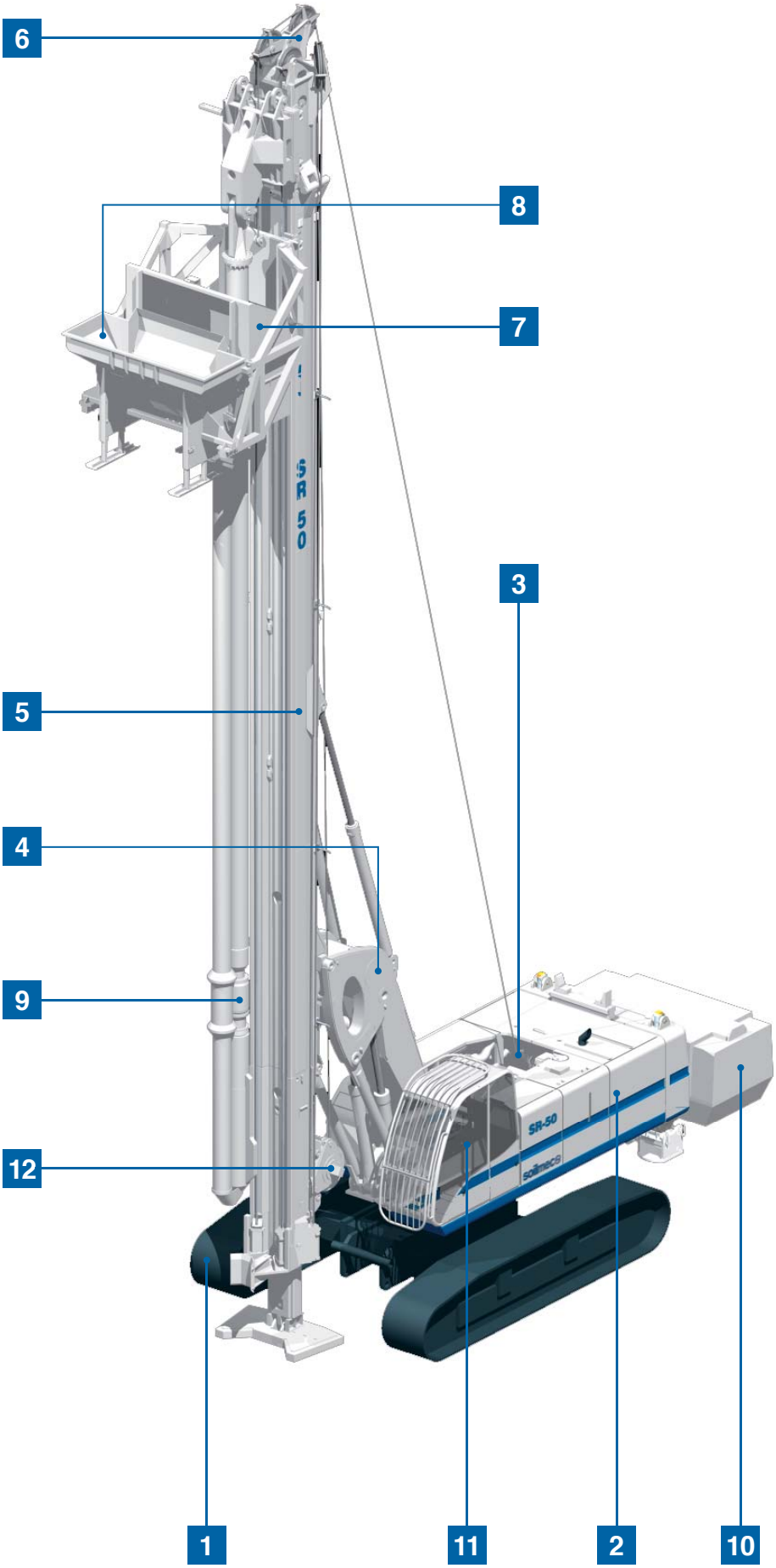


	4-part line pull - ø 406 mm		4-part line pull - ø 355 mm	
Max extraction force (nominal)	**520 kN**	*116898.6 lbf*	**520 kN**	*116898.6 lbf*
Max crowd force* (nominal)	**90 kN**	*20232 lbf*	**90 kN**	*20232 lbf*
Auger extension (Short)	**0,0 m**	*0.0 ft*	**3,0 m**	*9.8 ft*
Drilling depth with auger cleaner	**13,8 m**	*45.3 ft*	**16,8 m (13,8+3)**	*55.1 ft (45.3+9.8)*
Drilling depth without auger cleaner	**15,0 m**	*49.2 ft*	**18,0 m (15+3)**	*59.1 ft (49.2+9.8)*
Max drilling diameter	**1000 mm**	*39.4 in*	**1000 mm**	*39.4 in*
Auger extension (Long)	**4,5 m**	*14.8 ft*	**6,0 m**	*19.7 ft*
Drilling depth with auger cleaner	**18,3 m (13,8+4,5)**	*60.0 ft (45.3+14.8)*	**18,8 m (13,8+6)**	*61.7 ft (45.3+19.7)*
Drilling depth without auger cleaner	**19,5 m (15+4,5)**	*64.0 ft (49.2+14.8)*	**21,0 m (15+6)**	*68.9 ft (49.2+19.7)*
Max drilling diameter	**750 mm**	*29.6 in*	**750 mm**	*29.6 in*
Continuous flight auger length including starter auger	**15600 mm**	614.6 in	**15800 mm**	*622.5 in*
Operating weight (approx. w/o augers)	**51500 kg**	113537 lb	**50900 kg**	*112214 lb*

* with additional winch

APPLICATION

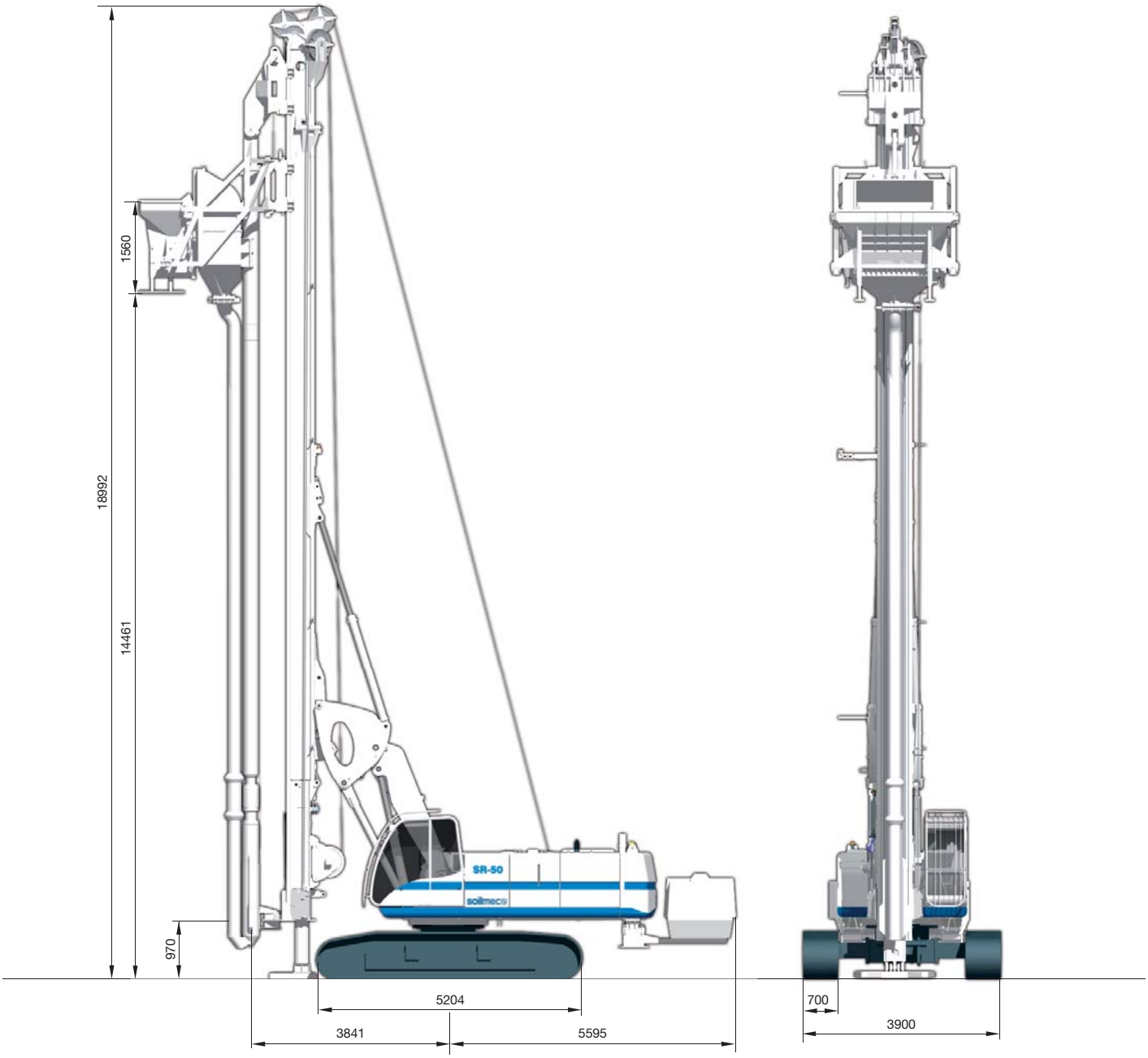
BFS - Bottom Feed System



BFS is the **SR-50** configuration dedicated to carry out stone columns using bottom-feed method.
Soilmec vibro-treatment system offers the most cost effective and efficient method suitable for soft soils.

1. Undercarriage
2. Turret
3. Main winch
4. Parellelogram system
5. Self erecting mast
6. Cathead
7. Stone tank
8. Stone filling hopper
9. Vibrator string
10. Air compressor
11. Cab
12. Crowd system

BFS - Bottom Feed System



Deep vibrator max penetration	**12 m**	*39.4 ft*
Eccentric moment	**1,8 kgm**	*13.02 lbf*ft*
Max centrifugal force	**181 kN**	*40690 lbf*
Max rotation speed and frequency	**3000 rpm - 50 Hz**	*3000 rpm - 50 Hz*
Winch crowd stroke	**14000 mm**	*551 in*
Pull down/up force on casing (nominal)	**180 kN**	*51032 lbf*
Air compressor delivery rated (ISO 1217)	**10,5 m^3/min**	*2774 gpm*

All technical data are purely indicative and subject to change without notice 02/2012 - 500 - D - Litografia CILS Cesena - Il Digitale

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