

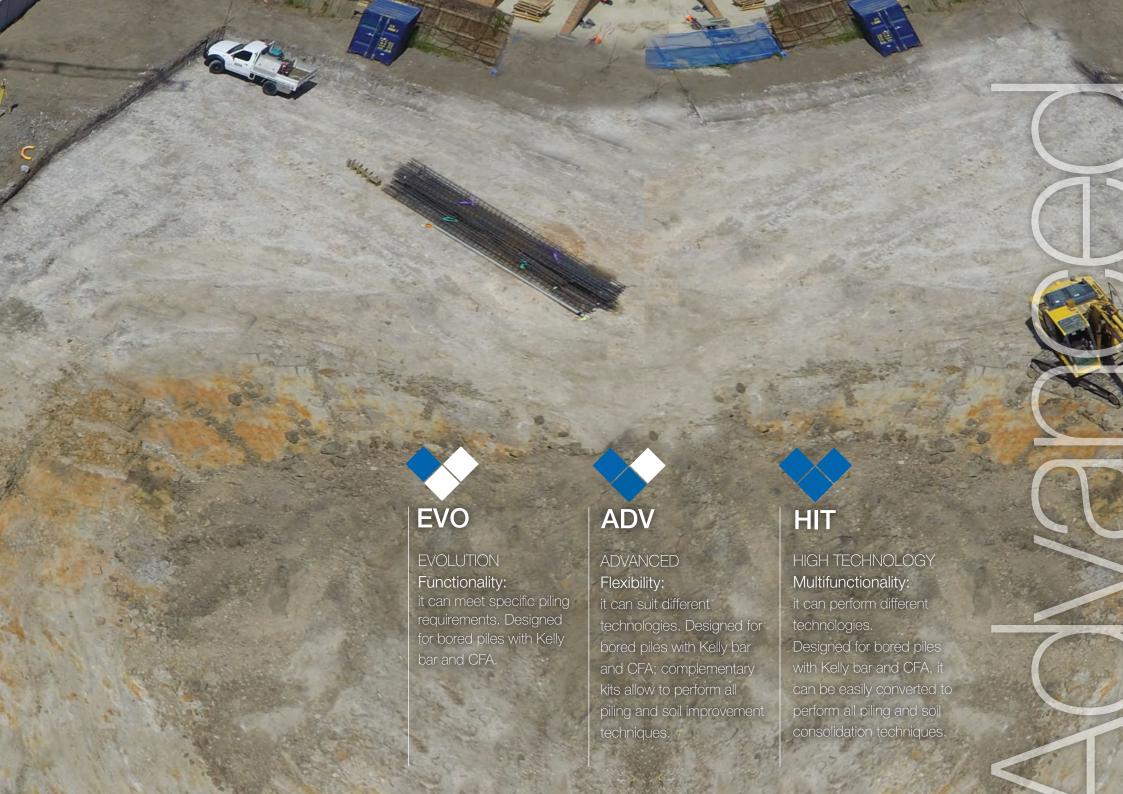


This is the story of machines, of million of pieces, both big and small, put together by human effort and ingenuity. Great, powerful, efficient rigs for deep foundations and shaped for your future.

This is the story of hard work, the daily toil of a team spread out across distant, almost inaccessible lands, but held together by common values and passion that knows no borders, because it's so perfectly human.

















Environment starts from safety.



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

For this reason, every Soilmec equipment can be purchased with the 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.











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 video cameras with a monitor, has the feeling of full awareness of all the surrounding environment.









Argano princ. 5 bar Giri rotary 0 rpm Pilotaggi 38 bar Rotary 8 bar 5 bar

Your Soilmec rigs and your jobsite... all in your hands.

Total control through the most advanced monitoring system in foundation field



DMS, Drilling Mate System, is the control center of your job site and Soilmec drilling rigs.

In 2004, Soilmec was the first manufacturer in the world to develop a system for the global control of the drilling rig and of the production processes.

DMS is available in each Soilmec rig and you can have 3 different packages that allow you to have the best possible control of your activities.

Everything under control wherever you are.

Supporting you all the way.





Technical support

Original spares

Training

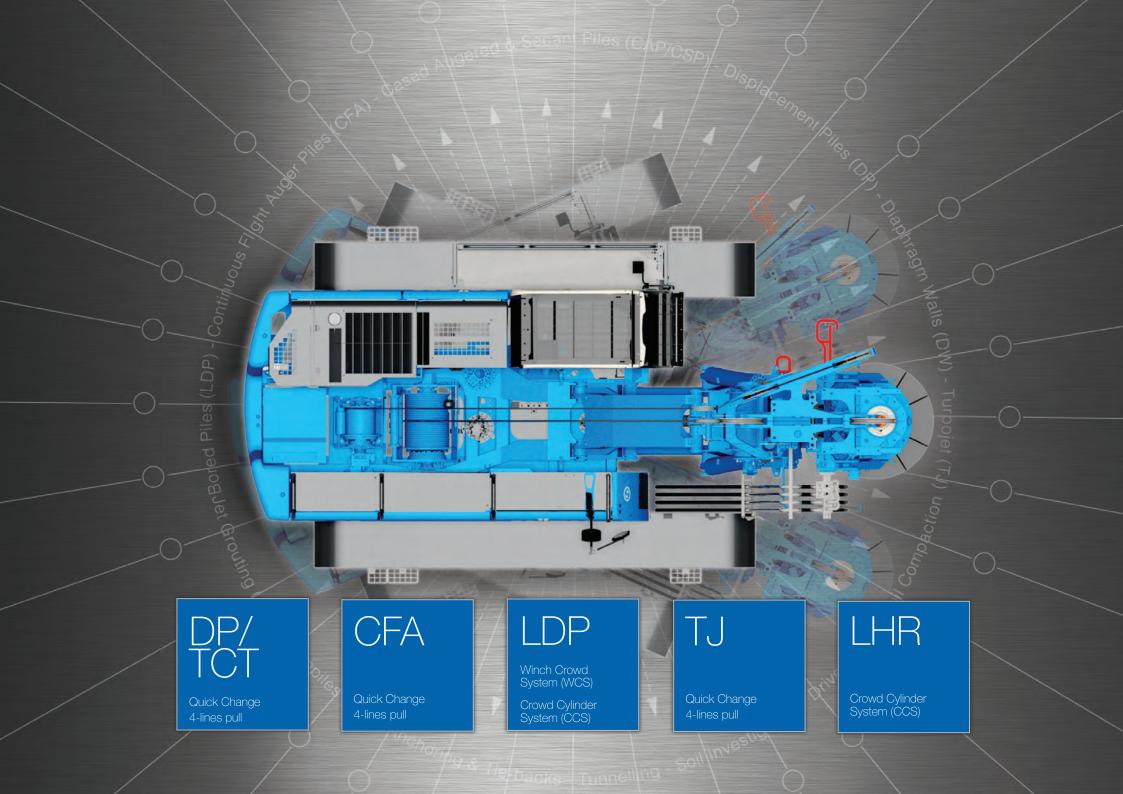
Auditing

Maintenance service contracts

DMS control center

We are ready to support you at any stage of your choice





A world of solutions.

Versatility means rapid conversion into all technologies you need. Among the many packages available, SR-45 offers 2 different types of continuous auger conversion: the first in order to have a quick and fast transformation.

In a few steps to transform your kelly bar rig into CFA Quick Change. The second if you need to set up your machine with the deepest CFA in its class 4-lines pull: up to 25 m (82 ft) drilling depth with auger cleaner and sleeve extension.

Low Head Room (LHR) package is also available on SR-45. This kit allows mast minimum heights (8.5 m/28 ft) and at the same time considerable drilling depth (up to 24 m/78,7 ft with friction kelly and mast extension).

Displacent and Turbojet technology can reach the maximum drilling depth of 23 m (75.6 ft);

SR-45 can be setted with or without lattice boom extension to give you the best solution you need.

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

Autorotary. The operator can active the rotary rotation by an additional pedal in alternative to the usual joystick.

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

Automatic Greasing package. You do not have to worry of when greasing. SR-45 takes care of itself automatically.

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

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

Casing oscillator. An hydraulic prearrangement to get ready your rig.

Hydraulic device for foldable mast element. It allows to speed up the assembly and set up of you rig.



Large Diameter Piles

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

Upgraded Cylinder Crowd System Winch Crowd System in WCS version 3750 R3815 3400 Rmax R3815 R3815

LDP - Large Diameter Piles - CCS version		
Operating weight Tier 4f - w/o kelly bar	37100 kg*	81791 lb
Max pile diameter along mast	1500 mm	59 in
Max pile diameter w/o lower mast section, tool below mast	3000 mm	118 in
Working radius	3000 - 3400 mm	118 - 133 in
Tail swing radius	3815 mm	150 in
Max pile depth-friction kelly	59,4 m	195 ft
Max pile depth-locking kelly	47,4 m	156 ft

^{*} For Stage V version. For T3 version weight reduced by 500 kg (1102 lb).

LDP - Large Diameter Piles - WCS version		
Operating weight Tier 4f - w/o kelly bar	39000 kg	85979 lb
Max pile diameter along mast	1400 mm	55 in
Max pile diameter w/o lower mast section, tool below mast	3000 mm	118 in
Working radius	3000 - 3400 mm	118 - 133 in
Tail swing radius	3815 mm	150 in
Max pile depth-friction kelly	65 m	213 ft
Max pile depth-locking kelly	51.7 m	170 ft

^{*} For Stage V version. For T3 version weight reduced by 500 kg (1102 lb).

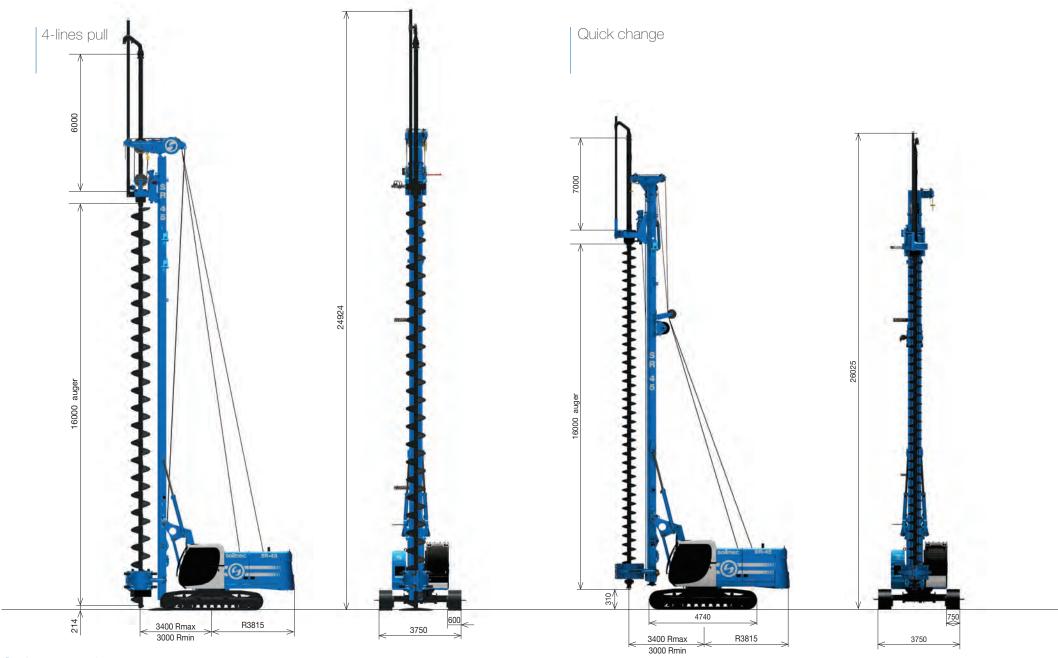
LDP - Large Diameter Piles - Upgraded version		
Operating weight Tier 4f - w/o kelly bar - CCS version	39400 kg	886861 lb
Operating weight Tier 4f - w/o kelly bar - WCS version	41300 kg	91050 lb
Working radius	3000 - 3800 mm	118 - 150 in
Max pile depth	62,7 m	206 ft

Kelly bars for LDP

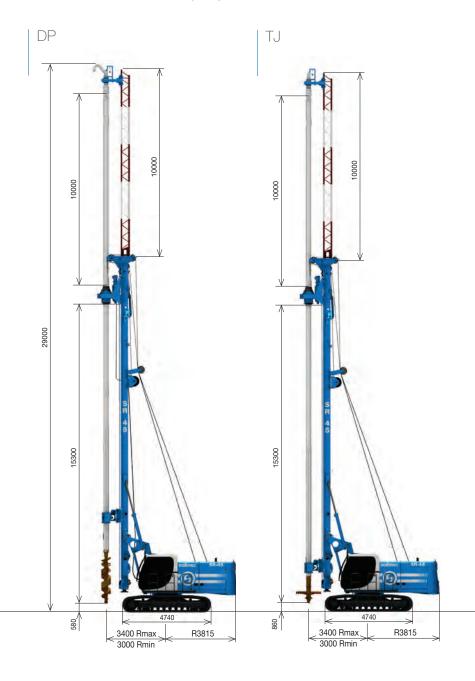
	Kelly type	Kelly dimens.		illing epth *	We	eight		L ngth		H System		H SYSTEM
	1) 50		m	ft		t (US)	m	ft	m	ft	m	ft
S	BL HD	3 x 8	21,6	70.9	3,1	3.4	9,1	29.9	7,8	25.6	8,5	27.9
parts	BL HD	3 x 9	24,5	80.4	3,4	3.7	10,1	33.1	7,6	24.9	7,5	24.6
8	BL HD	3 x 12	33,6	110.2	4,3	4.7	13,1	43.0	4,5	14.8	4,5	14.8
	BL HD	3 x 14	38,9	127.6	4,9	5.4	14,9	48.9	n/a	n/a	2,7	8.9
	BL HD	4 x 8	29,0	95.1	3,5	3.9	9,1	29.9	7,8	25.6	8,5	27.9
	BL HD	4 x 9	32,2	105.6	3,9	4.3	9,9	32.5	7,7	25.3	7,7	25.3
	BL HD	4 x 10,5	38,4	126.0	4,4	4.9	11,6	38.1	6,1	20.0	6,0	19.7
	BL HD	4 x 12	44,7	146.7	5,0	5.4	13,2	43.3	4,5	14.8	4,4	14.4
rts	BL HD	4 x 13	48,2	158.1	5,3	5.8	14,0	45.9	3,6	11.8	3,6	11.8
ba	BL HD	4 x 14	51,5	169.0	5,7	6.2	14,9	48.9	n/a	n/a	2,7	8.9
4	FR HD	4 x 9	32,6	107.0	3,9	4.3	10,0	32.8	7,7	25.3	7,6	24.9
	FR HD	4 x 12	44,2	145.0	5,0	5.4	12,9	42.3	4,8	15.7	4,7	15.4
	FR HD	4 x 13	48,5	159.1	5,3	5.8	14,0	45.9	3,7	12.1	3,6	11.8
	FR HD	4 x 14	52,1	170.9	5,7	6.2	14,9	48.9	n/a	n/a	2,7	8.9
	FR HD	5 x 9	40,7	133.5	4,1	4.5	10,0	32.8	7,7	25.3	7,6	24.9
s.	FR HD	5 x 11	48,8	160.1	4,8	5.3	11,6	38.1	6,0	19.7	6,0	19.7
parts	FR HD	5 x 12	55,1	180.8	5,2	5.7	12,9	42.3	4,8	15.7	4,7	15.4
5	FR HD	5 x 13	60,5	198.5	5,5	6.1	14,0	45.9	3,7	12.1	3,6	11.8
	FR HD	5 x 13,5	63,8	209.3	5,7	6.3	14,6	47.9	n/a	n/a	3,0	9.8
	FR HD	5 x 14	65,0	213.3	5,9	6.5	14,9	48.9	n/a	n/a	2,7	8.9

^{*} Reduced drilling depth by 1.1 m (3.61 ft) in CCS version Kelly bar c/w stub 150x150 mm Drilling depth with tool 1500 mm (4.9 ft) long Reduced drilling depth by 1200 mm (3.9 ft) without lower mast section.

CFA / DP / TJ



DP/TJ applications



CFA - Continuous Flight Auger - 4 line pull - standard version		
Operating weight (c/w 6 m / 19.7 ft sleeve extension, w/o auger)	40600 kg	89507 lb
Max pile diameter	1000 mm	39.37 in
Max length of auger	16 m	52 ft
Max length of sleeve extension	6 m	20 ft
Max pile depth c/w 6 m sleeve extension*	21,5 m	71 ft
Extraction force	480 kN	107906 lbf
Additional extraction force on auger (on request)	100 kN	22481 lbf
CFA - Continuous Flight Auger - 4 lines pull - special version		
Operating weight (c/w 6 m / 19.7 ft sleeve extension, w/o auger)	42100 kg	92814 lb
Max pile diameter	1000 mm	39.37 in
Max length of auger	18,5 m	61 ft
Max length of sleeve extension	8 m	26 ft
Max pile depth c/w 6 m / 19.7 ft m sleeve extension*	24 m	78.7 ft
Extraction force	455 kN	102286 lbf
Additional crowd force on auger (on request)	100 kN	22481 lbf
CFA - Continuous Flight Auger - Quick change		
Operating weight (c/w 6 m / 19.7 ft sleeve extension, w/o auger)	40900 kg	90168 lb
Max pile diameter	1000 mm	39.37 in
Max length of auger	16 m	52 ft
Max length of sleeve extension	8 m	26 ft
Max pile depth c/w 7 m / 23 ft m sleeve extension*	21 m	69 ft
Max pile depth with special package (auger length: 17 m - 55,7 ft, on request)	23,2 m	76 ft
Extraction force	394 kN	88573 lbf
Crowd force on auger	140 kN	31473 lbf
*depth reduced of 1 m (3.28 ft) with hydraulic auger cleaner		
DP - Displacement pile - Quick change*		
Operating weight (w/o string and tool, c/w lattice)	43500 kg	95900 lb
Max recommended DP pile diameter	350 mm	13.78 in
Max recommended TCT pile diameter	400 mm	15.75 in
Max length of string	15,3 m	50 ft
Max pile depth w/o lattice boom extension c/w 7 m (23 ft) string extension	20,0 m	66 ft
Lattice boom extension length	10,0 m	33 ft
Max pile depth c/w lattice boom extension	23,0 m	75 ft
TJ - Turbo jet - Quick change*		
Operating weight (w/o string and tool, c/w lattice)	43900 kg	96782 lb
Max recommended TJ pile diameter	1000 mm	39.37 in
Max length of string	15,3 m	50 ft
Max pile depth w/o lattice boom extension c/w 6 m (23 ft) string extension	19,0 m	62 ft

10,0 m

23,0 m

33 ft

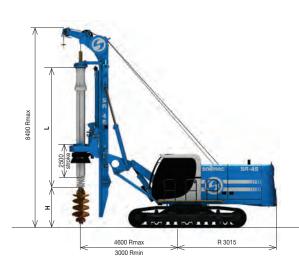
75 ft

Lattice boom extension length

Max pile depth c/w lattice boom extension

^{*} DP/TCT and TJ are also available with 4-line pull version

Low Head Room





LHR_Low Head Room		
Operating weight w/o kelly bar	35800 kg	78925 lb
Min operating height without / with mast extension	8,5 / 9,8 m	28 / 32 ft
Max operating height without / with mast extension	9,5 / 10,75 m	31 / 35 ft
Max pile diameter	1500 mm	59 in
Max pile diameter w/o lower mast section, tool below mast	3000 mm	118 in
Max pile depth-friction kelly (c/w mast extension)	23,7 m	78 ft
Max pile depth-locking kelly (c/w mast extension)	19,3 m	63 ft
Cylinder crowd system stroke	2500 mm	98,43 in
Crowd force pull (down/up)	140 / 207 kN	31473 / 46535 lbf
Working radius	4600 - 3000 mm	181 - 118 in

Kelly bar for LHR

Standard version

H max 8,5 m / 28 ft - Max working radius

Kelly type	Kelly dimens.	Weight		Drilling L Weight Depth Length		_ igth	Clearance			
		ton	t(US)	m	ft	m	ft	m	ft	
BL HD	4 x 4,5	2,2	2.4	15,9	52.2	5,5	18.0	1,5	4.9	
BL HD	4 x 5	2,4	2.6	16,5	54.1	5,8	18.9	1,2	3.9	
BL HD	5 x 4,5	2,4	2.6	19,4	63.6	5,5	18.0	1,5	4.9	
BL HD	5 x 5	2,6	2.9	20,3	66.6	5,8	18.9	1,2	3.9	

 $\begin{tabular}{ll} \textbf{Mast extended version} \\ \textbf{H max 9.8 m / 31.5 ft with CCS in low position - Max working radius} \\ \end{tabular}$

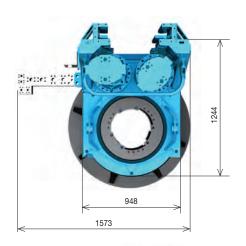
Kelly type	Kelly dimens.	Weight		Drilling L Depth Length		L ngth	Clearance		
		ton	t(US)	m	ft	m	ft	m	ft
BL HD	4 x 4,5	2,2	2.4	15,9	52.2	5,5	18.0	2,7	8.9
BL HD	4 x 5	2,4	2.6	17,0	55.8	5,8	18.9	2,4	7.9
BL HD	4 x 5,5	2,6	2.9	19,3	63.3	6,4	20.8	1,8	5.9
BL HD	5 x 4,5	2,4	2.6	19,4	63.6	5,5	18.0	2,7	8.9
BL HD	5 x 5	2,6	2.9	20,8	68.2	5,8	18.9	2,4	7.9
BL HD	5 x 5,5	2,8	3.1	23,7	77.8	6,4	20.8	1,8	5.9

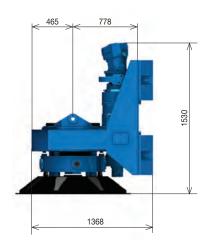
Mast extended version
H max 10 m / 23 ft with CCS in high position - Max working radius

Kelly type	Kelly dimens.	Weight		Drilling L Depth Length		_ igth	Clearan	се	
		ton	t(US)	m	ft	m	ft	m	ft
BL HD	4 x 4,5	2,2	2.4	14,4	47.2	5,5	18.0	2,7	8.9
BL HD	4 x 5	2,4	2.6	15,5	50.9	5,8	18.9	2,4	7.9
BL HD	4 x 5,5	2,6	2.9	17,8	58.4	6,4	20.8	1,8	5.9
BL HD	5 x 4,5	2,4	2.6	17,9	58.7	5,5	18.0	2,7	8.9
BL HD	5 x 5	2,6	2.9	19,3	63.3	5,8	18.9	2,4	7.9
BL HD	5 x 5,5	2,8	3.1	22,2	72.8	6,4	20.8	1,8	5.9

Rotary

Increased drilling axis

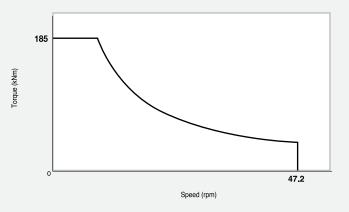






Rotary drive	Spin off type	Spin off type
Max torque	185 kNm	136447 lbf*ft
Rated torque	161 kNm	118746 lbf*ft
Max drilling speed	47 rpm	47 rpm
Spin off speed	146 rpm	146 rpm
Weight (w/o cradle and casing flange)	2850 kg	6283 lb

Rotary torque diagram

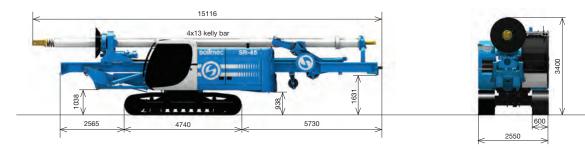


The easy replacement of the drive ribs and pads have been purposely designed for the specific needs of the job site.

The rotary implements with a new device that allows the automatic control of the motor displacement. This optimizing the drilling speed and the productivity in every phase.

Transport

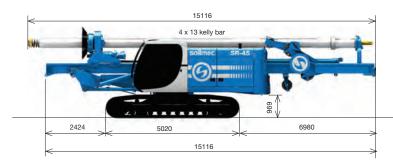
Dimensions and Weights



Transport standard version	CC	S	wcs	
Transport weight*	42400 kg	93475 lb	44300 kg	97664 lb
Transport length**	15116 mm	49.6 ft	15200 mm	49.9 ft

^{*} includes the base carrier Tier 4f, c/w undercarriage, mast, rotary and 4x13 m kelly bar

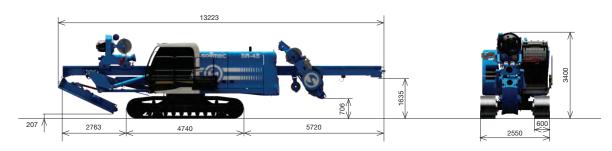
^{**} with 4x13m kelly bar



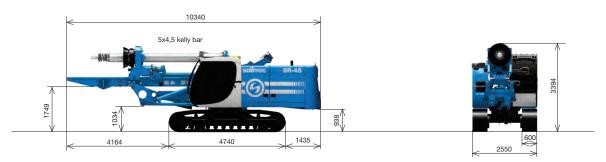
Transport upgraded version	C	cs	wcs		
Transport weight*	44700 kg	988546 lb	46600 kg	102734 lb	
Transport length**	15116 mm	49.6 ft	15120 mm	49.6 ft	

^{*} includes the base carrier Tier 4f, c/w undercarriage, mast, rotary and 4x13 m kelly bar

^{**} with 4x13m kelly bar



Transport CFA version	4	I-line pull		Quick change
Transport weight	38500 kg	84877 lb	38600 kg	85098 lb
Transport length	13250 mm	43.5 ft	13250 mm	43.5 ft



Transport LHR version	8.5		9.75	
Transport weight	38000 kg	83775 lb	38400 kg	84657 lb
Transport length	10340 mm	33.9 ft	10340 mm	33.9 ft

 $^{^{\}star}$ includes the base carrier Tier 4f, c/w undercarriage, mast, rotary and 4x4,5 m kelly bar ** with 4x4,5m kelly bar

Technical data





Engine	Cummins B6.7	Cummins B 6.7
- Rated output	209 kW @ 2000 rpm	280 HP @ 2000 rpm
- Engine conforms to Exhaust emission Standard	EU Stage V / US EPA Tier 4f	EU Stage V / US EPA Tier 4f
- Fuel tank capacity	380 I	100 US gal
- AD Blue tank capacity	57 I	15 US gal

Available: Engine Tier 3 power rating 201 kW @ 2000 rpm



The cleaning of hydraulic oils is electronically monitored and any clogging is show to operator on DMS control system in the cab.

Main pumps flow		
- Main pump flow	2x 214 l/min	2x 57 US gal/min
- Auxiliary pump flow	160 l/min	42 US gal/min
- Hydraulic oil tank	450 I	119 US gal

- Type	controlled descent	controlled descent
- Line pull (1st layer)	165 kN	37093 lbf
- Rope diameter	24 mm	740 in
- Line speed (max.)	78 m/min	256 ft/min

Auxiliary winch		
- Type	controlled descent	controlled descent
- Line pull (1st layer)	65 kN	14612 lbf
- Rope diameter	18 mm	740 in
- Line speed (max.)	81 m/min	266 ft/min



loise		
- Sound pressure level in cab c/w Tier 4f	76 dB(A)	76 dB(A)
- Sound power level c/w Tier 4f	107 dB(A)	109 dB(A)
- Vibration transmitted to the hand-arm system of the machine operator	< 2.5 m/s	< 2.5 m/s
- Vibration transmitted to the whole body of the machine operator	< 0.5 m/s	< 0.5 m/s



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.

Indercarriage		
- Type	variable gauge, telescoping sides frames	variable gauge, telescoping sides frames
- Overall width with retracted / extended crawlers*	2550 / 3750 mm	100 / 148 in
- Width of triple grouser track shoes	600 mm	24 in
- Overall length of crawlers	4740 mm	187 in
- Traction force	424 kN	95317 lbi
- Travelling speed	1,9 km/h	1.18 mph

^{*} upgraded undercarriage is available on request



Soilmec H-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		

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 oprations are actuated by two innovative joysticks.

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







Configurations

	LDP Large Diameter Pile with kelly bar		CFA Continuous Flight Auger Piles		
	(WCS)	(CCS)	(LHR)	(4-lines pull)	(Quick chang
UNDERCARRIAGE					
Undercarriage 2550/3750/600	•	•	•	•	•
Upgraded undercarriage 2550/4000/600	0	0	0	0	0
Mechanical prearrangement for casing oscillator	•	•			
Hydraulic preamangement for casing oscillator	0	0	0	n.a.	n.a.
VRM120KL casing oscillator	Ô	Ô	Ô	n.a.	n.a.
Radio remote control for tramming operation	0	Ô	0	0	0
UPPER STRUCTURE					
Diesel engine Cummins QSB6.7 EU Stage V – US EPA Tier 4F	•	•	•		
Diesel engine Cummins QSB6.7 EU Stage IIIA – US EPA Tier 3	0	0	0	0	0
Start and slow system					
Harness technology for electrical system					
Automatic greasing package	0	0	0	0	0
PTO kit	0	0	0	0	0
Machine lifting kit (harbor use)	0	0	0	0	Ö
Foaldable side catwalks for cabin with handrails	0	0	0	0	0
Acoustic & light alarm for tramming					
Lighting led system package	0	0	0	0	0
Sound proofed canopies					0
Front support for tools H-CAB	0	0	0	0	0
Front protective grille					
Falling object protective structure (FOPS)		•			•
Lower front protective grille					•
Rearview mirrors		•			•
Comfort packakge		•			•
Operator seat (air suspension, lumbar support, fully adjustable positioning, safety belt & operator presence micro-switch)	•	•	•	•	•
Sliding door					•
Sliding window	O	0	0		0
Lighting system in front of the cab		•	•		•
CONTROL AND MONITORING SYSTEM					
DMS ON BOARD with technological package	•	•	•		•
DMS PC		•	•		•
DMS manager 4.0	0	0	0	0	0
GSM / GPRS / WIFI Modem	•				
DMS ON BOARD adjustable monitor 12" touch screen					
Video control by 4 cameras with display in the cab	0	0	0	0	0
Inclinometer device	•	•	•		•
WINCHES					
Main winch SW160 model	•	•	•	•	•
Load cell for main winch	0	0	0		
Limit switch for rope winding and winches	Ō	Ō	0	0	0
Depthmeter for main winch	•				•
Anti-slack system for main winch	0	0	n.a.	n.a.	n.a.
Service winch SW65 model	- i	ŏ			α.
Load cell for service winch	0	0	0	0	0
Service rope holder	0	0	0	0	0

	LDP Large Diameter Pile with kelly bar			CFA Continuous Flight Auger Pile		
	(WCS)	(CCS)	(LHR)	(4-lines pull)	(Quick chang	
ROTARY UNIT						
Rotaty unit c/w spinoff; Max torque intermitted: 184,8 kNm (136301 lbf*ft)	•	•			•	
Spin off system	•	•	•		•	
Replaceable drive ribs	•	•	•	•	•	
Automatic greasing kit for cradle	0	0	0	0	0	
Oil discharge conveying system	0	0	0	0	0	
MAST						
Hydraulic folding mast kit	0	0	n.a.	0	0	
Pressure automatic control of lifting cylinders		•	•		•	
Automatic greasing package for cathead	0	0	0	0	0	
KELLY BAR TECHNOLOGY						
Rotary sleeve with 3 ribs				n.a.	n.a.	
Replaceable rotary ribs				n.a.	n.a.	
Cardan joint				n.a.	n.a.	
Flange for casing driving d.1300 mm (51.1 in)				n.a.	n.a.	
Flange for casing driving d.900 mm (34.4 in)	0	0	0	n.a.	n.a.	
Spin off discharging system				n.a.	n.a.	
Automatic return to the centre hole	0	0	0	n.a.	n.a.	
Package to increase the drilling depth up to 62,7 m (205 ft)	Õ	0	n.a.	n.a.	n.a.	
Telescopic mast foot		n.a.	n.a.	n.a.	n.a.	
CFA TECHNOLOGY		11.6.	11.6.	II.a.	II.a.	
HD4 sleeve type	n.a.	n.a.	n.a.	0	0	
HD5 sleeve type	n.a.	n.a.	n.a.			
HD15 sleeve type	n.a.	n.a.	n.a.		0	
Sleeve 3 m / 9.0 ft long	n.a.	n.a.	n.a.	0	0	
Sleeve 7 m / 19.7 ft long	n.a.	n.a.	n.a.	0	0	
Sleeve 8 m / 26.2 ft long	n.a.	n.a.	n.a.	0	0	
Package for CFA 21 m / 68.9 ft drilling depth w/o cleaner	n.a.	n.a.	n.a.			
Package for CFA 23,2 m / 76.9 ft drilling depth w/o cleaner	n.a.	n.a.	n.a.	n.a.	0	
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Package for CFA 26 m / 85.3 ft drilling depth w/o cleaner	n.a.	n.a.	n.a.	0	n.a.	
DMS ON BOARD with automatic auger lifting	n.a.	n.a.	n.a.			
Autodrilling package	n.a.	n.a.	n.a.	0	0	
Autorotary package	n.a.	n.a.	n.a.	0	0	
Automatic greasing kit for CFA cathead	n.a.	n.a.	n.a.	0	0	
Additional pull-down winch	n.a.	n.a.	n.a.	0	n.a.	
Universal openable lower guide d.1000 mm / 39.4 in	n.a.	n.a.	n.a.			
Hydraulic kit for lower guide	n.a.	n.a.	n.a.	0	0	
Auger cleaner star type	n.a.	n.a.	n.a.	0	0	
Double roller auger cleaner d.1000 mm / 39.4 in	n.a.	n.a.	n.a.	0	0	
Two pressure transducers kit	n.a.	n.a.	n.a.	0	0	
Concrete pipe on turret and mast	n.a.	n.a.	n.a.	0	0	
Hydraulic prearrangement for VTH-1 vibrator	n.a.	n.a.	n.a.	0	0	
Lattice mast extension for DP/TCT and TJ technology	n.a.	n.a.	n.a.	n.a.	0	
Additional package for DP/TCT technology: 23 m /75.5 ft depth with lattice extension	n.a.	n.a.	n.a.	n.a.	0	
Additional package for TJ technology: 23 m /75.5 ft depth with lattice extension	n.a.	n.a.	n.a.	n.a.	0	

