

SR-35

BLUETECH PLUS

BLUE TECH

soilmec



Power meets precision. Efficiency meets innovation.

- **Less Fuel, More Power**

An intelligent hydraulic system and smart pump control cut diesel use by up to 30%, while boosting rotary torque to 170.3 kNm rated.

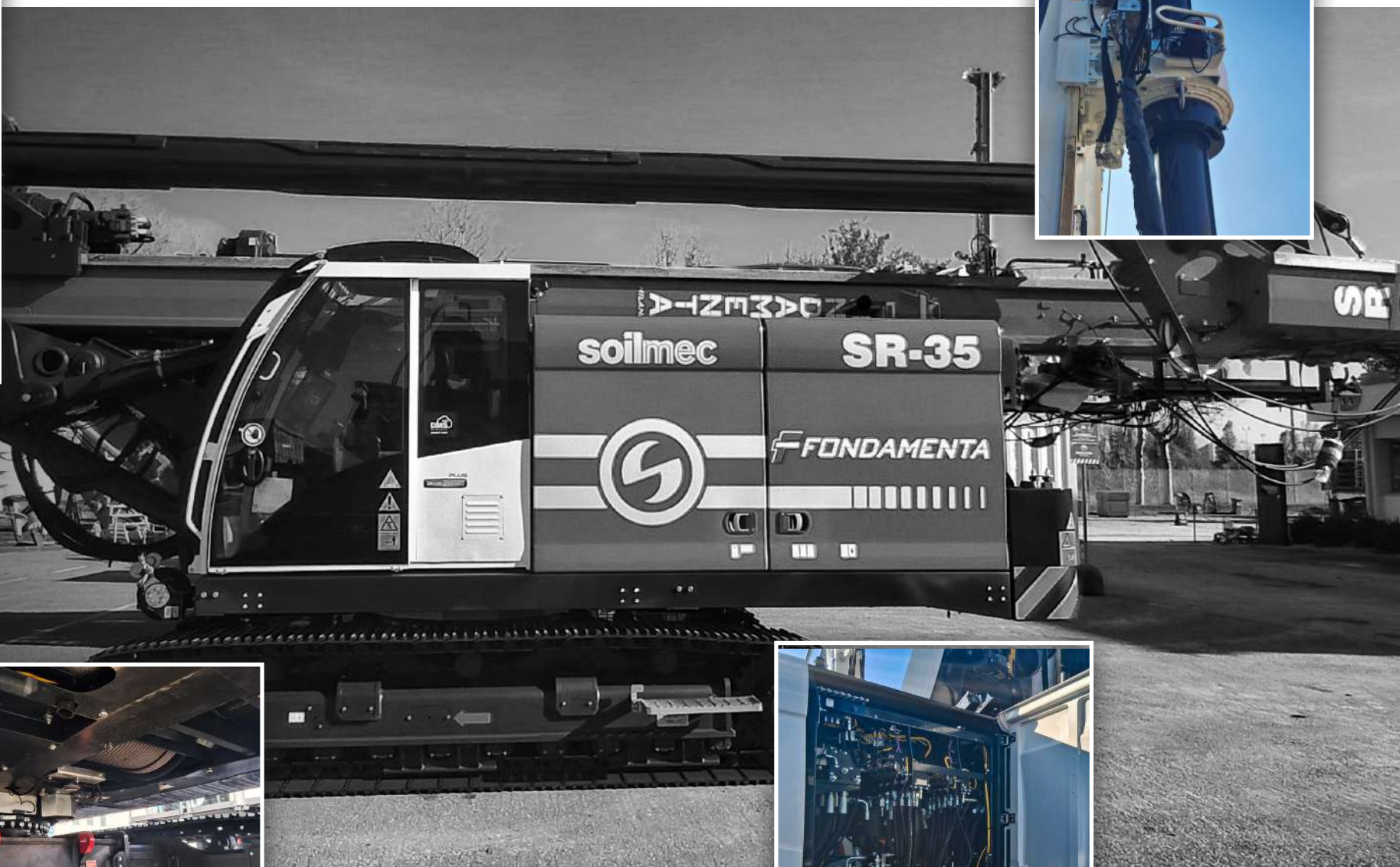
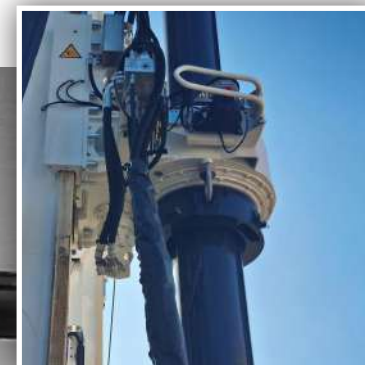
- **Lower Maintenance Costs**

New hydraulic system and fewer components mean less downtime and 30% savings on oil changes.

- **Built for a Greener Future**

Compatible with HVO diesel and biodegradable oil, with up to 30% CO₂ savings per cycle and the lowest noise emissions on the market.





Smart Power. Unmatched Efficiency.

Meet the new SR-35 Blue Tech Plus, the drilling rig that redefines energy efficiency in the construction industry.

Engineered with an intelligent hydraulic system and advanced software for seamless pump-distributor communication, it delivers significant fuel savings while boosting mechanical performance.



More **performance**

- Power and productivity without compromise



More **saving**

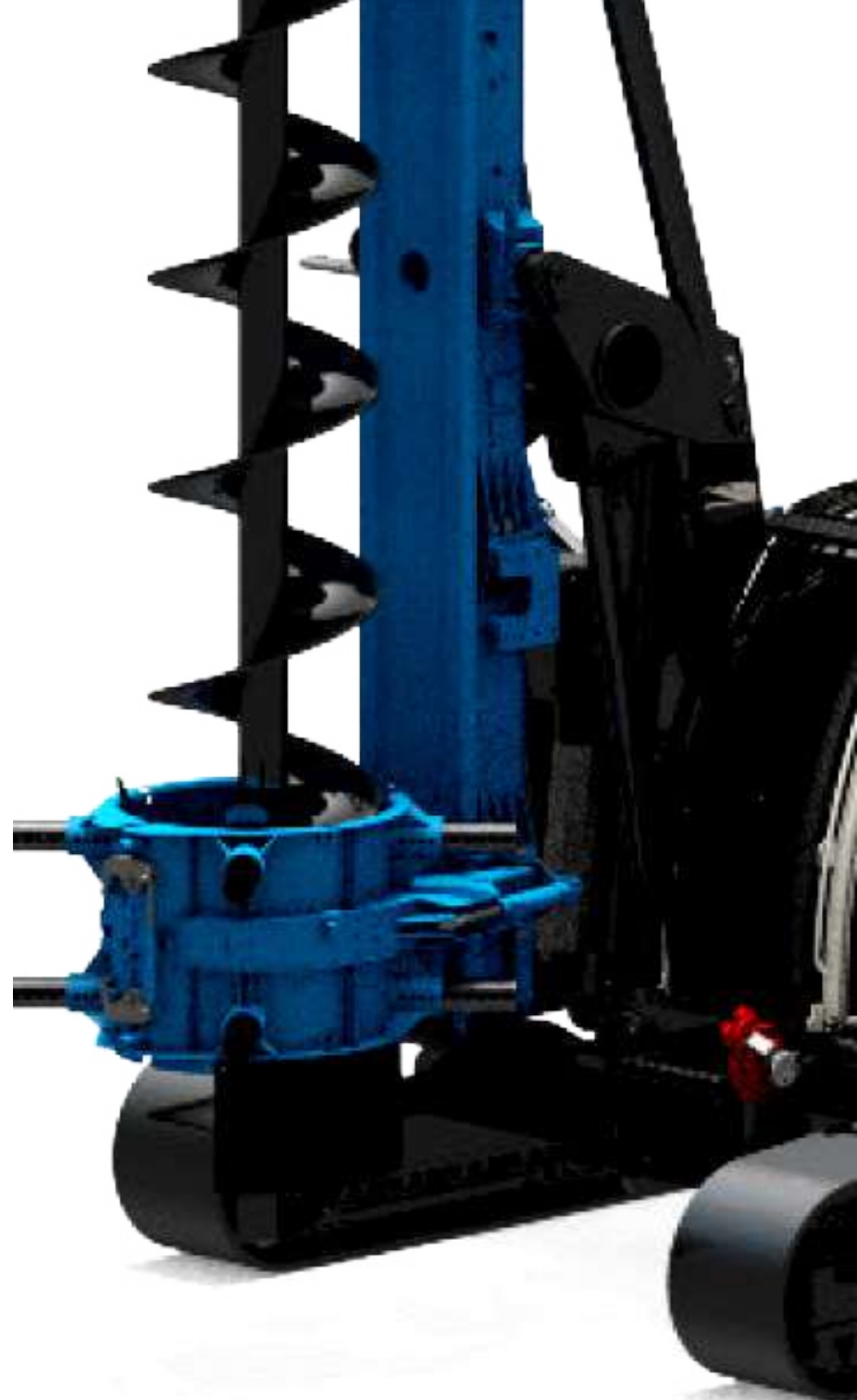
- Lower fuel use, reduced operating costs



More **sustainability**

- Smaller environmental footprint

With the SR-35 Blue Tech Plus, every work cycle becomes a smarter, cleaner, and more competitive step forward.





Diesel engine power rating

209 kW / 280 HP



Operating weight

36600 kg / 80688 lb



Main winch

140 kN / 31475 lbf



Rotary drive max torque

141 kNm / 103997 lbf*ft



Max depth LDP

63 m / 208 ft



Max depth LHR

23,3 m / 76 ft

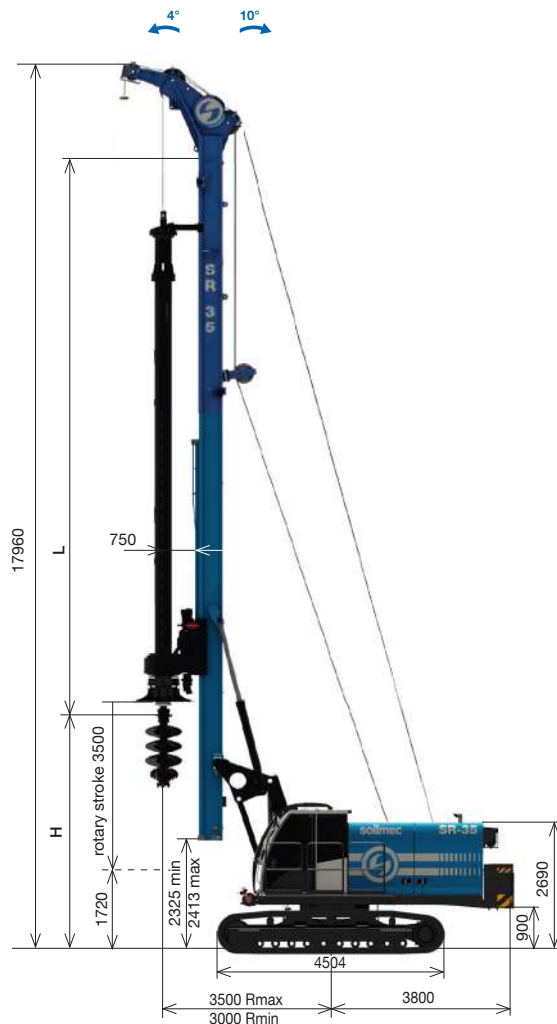


Max depth CFA

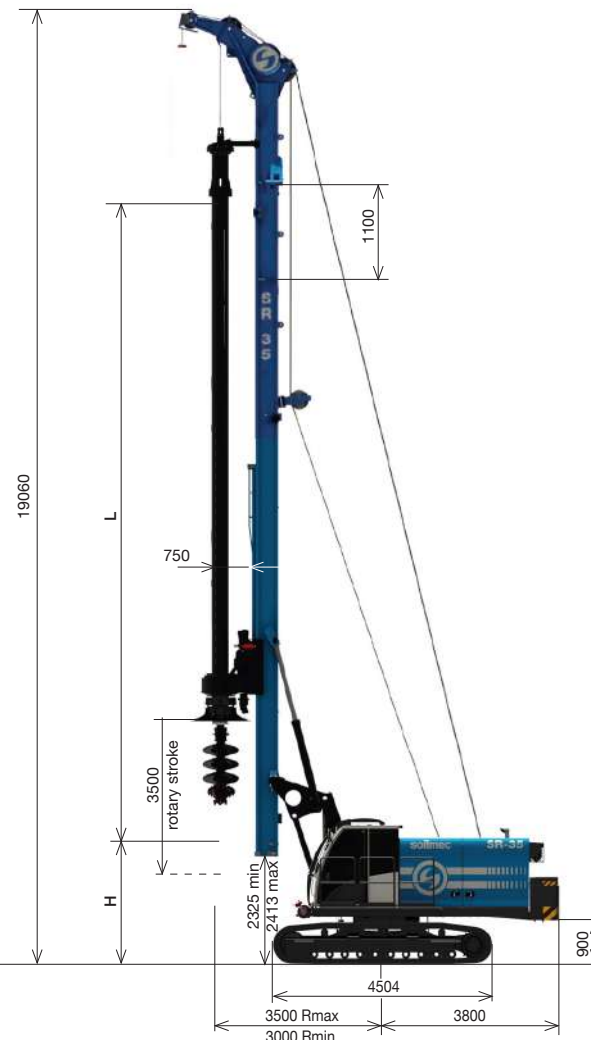
25 m / 82ft

Large Diameter Piles

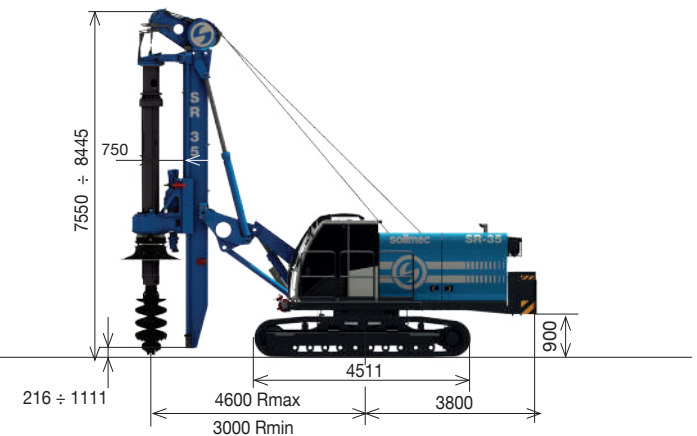
Cylinder Crowd System



Extended Rathole version



Low Head Room



LDP CCS - Large Diameter Piles

Operating weight (c/w 4x9 kelly bar)	36600 kg	80688 lb
Working radius	3000 - 3500 mm	118 - 138 in
Max pile diameter (tool along the mast)	1500 mm	59 in
Max pile diameter w/o lower mast section (tool below the mast)	3000 mm	118 in
Max pile depth - <i>friction kelly</i>	57 m	186 ft
Max pile depth - <i>locking kelly</i>	45 m	149 ft
Max pile depth - <i>extended version</i>	51 - 63,4 m	167 - 208 ft

LHR Large Diameter Piles

Min operating height	7,5 m	25 ft
Working radius	4600 - 3000 mm	181 - 118 in
CCS rotary stroke	2550 mm	100 in
Max pile diameter (tool along the mast)	1500 mm	59 in
Max pile diameter w/o lower mast section (tool below the mast)	3000 mm	118 in
Max pile depth - <i>friction kelly</i>	23,5 m	77 ft
Max pile depth - <i>locking kelly</i>	19 m	62 ft

Kelly bars for LDP

	Kelly type	Kelly dimens.	Drilling Depth		Weight		L Length		H CCS SYSTEM	
			m	ft	ton	t (US)	m	ft	m	ft
3 parts	BL HD	3 x 7,5	19,4	63.6	2,9	3.2	8,5	27.9	5,0	16.4
	BL HD	3 x 9	24,2	79.4	3,4	3.7	10,2	33.5	5,0	16.4
	BL HD	3 x 11	29,4	96.5	4,0	4.4	11,8	38.7	4,3	14.1
	BL HD	3 x 12,5	33,8	110.9	4,4	4.9	13,3	43.6	2,8	9.2
	BL HD	4 x 7,5	25,6	84.0	2,9	3.2	8,4	27.6	5,0	16.4
4 parts	BL HD	4 x 9	32,3	106.0	3,4	3.7	10,0	32.8	5,0	16.4
	BL HD	4 x 11	38,7	127.0	4,0	4.4	11,6	38.1	4,5	14.8
	BL HD	4 x 12,5	45,4	149.0	4,5	4.9	13,3	43.6	2,8	9.2
	FR HD	4 x 7,5	25,9	85.0	2,9	3.2	8,4	27.6	5,0	16.4
	FR HD	4 x 9	32,4	106.3	3,4	3.7	10,0	32.8	5,0	16.4
	FR HD	4 x 11	38,9	127.6	4,0	4.4	11,6	38.1	4,5	14.8
	FR HD	4 x 12	43,9	144.0	4,3	4.8	12,9	42.3	3,2	10.5
	FR HD	4 x 12,5	45,5	149.3	4,5	4.9	13,3	43.6	2,8	9.2
5 parts	FR HD	5 x 9	40,1	131.6	4,1	4.5	10,0	32.8	5,0	16.4
	FR HD	5 x 10	45,4	149.0	4,4	4.9	11,0	36.1	5,0	16.4
	FR HD	5 x 11	48,5	159.1	4,8	5.3	11,6	38.1	4,5	14.8
	FR HD	5 x 12	54,8	179.8	5,2	5.7	12,9	42.3	3,2	10.5
	FR HD	5 x 12,5	56,8	186.4	5,4	5.9	13,3	43.6	2,8	9.2

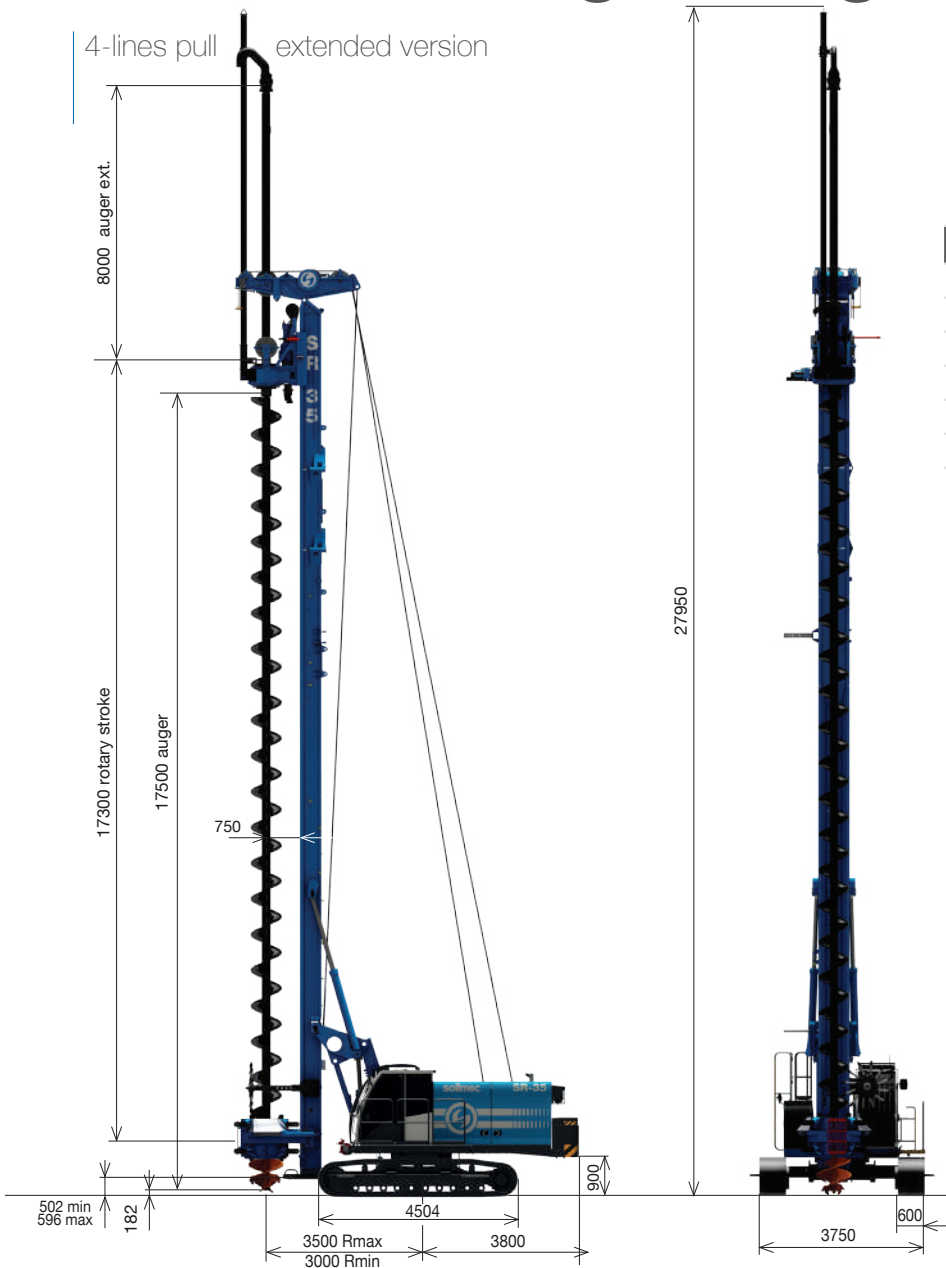
5x kelly bar torque derate required

Extension Rathole version Drilling depths

Kelly type	Kelly dimens.	Drilling Depth		Weight		L Length		H CCS SYSTEM	
		m	ft	ton	t (US)	m	ft	m	ft
FR HD	4 x 13	48,2	158.1	4,6	5.1	14,0	45.9	3,2	10.5
FR/BL HD	4 x 13,5	51,0	167.3	4,8	5.3	14,8	48.5	2,6	8.5
FR HD	5 x 13	60,2	197.5	5,5	6.1	14,0	45.9	3,2	10.5
FR HD	5 x 13,5	63,4	208.0	5,7	6.3	14,6	47.9	2,5	8.2

5x kelly bar torque derate required

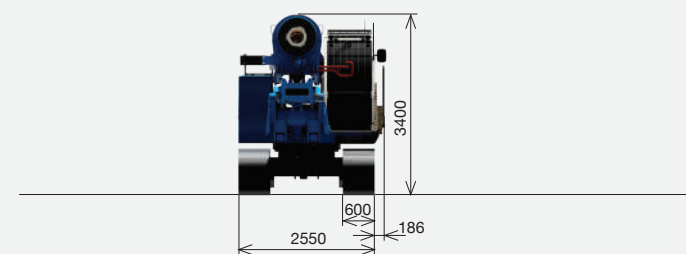
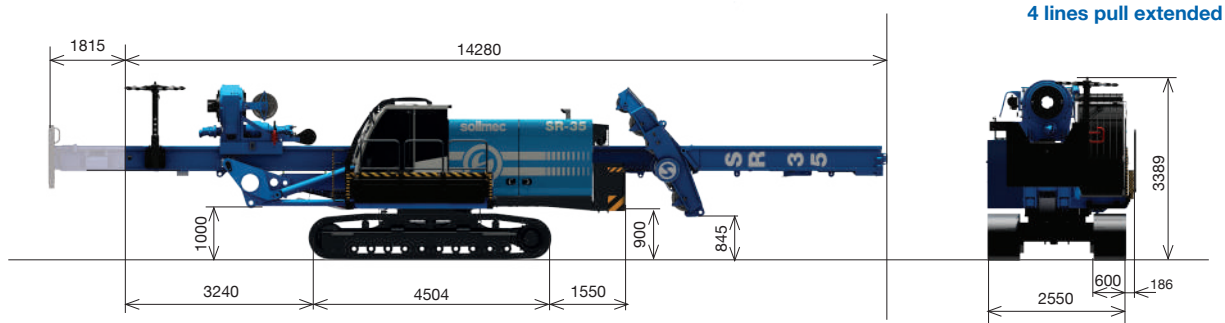
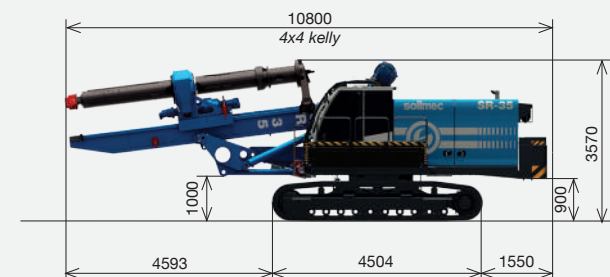
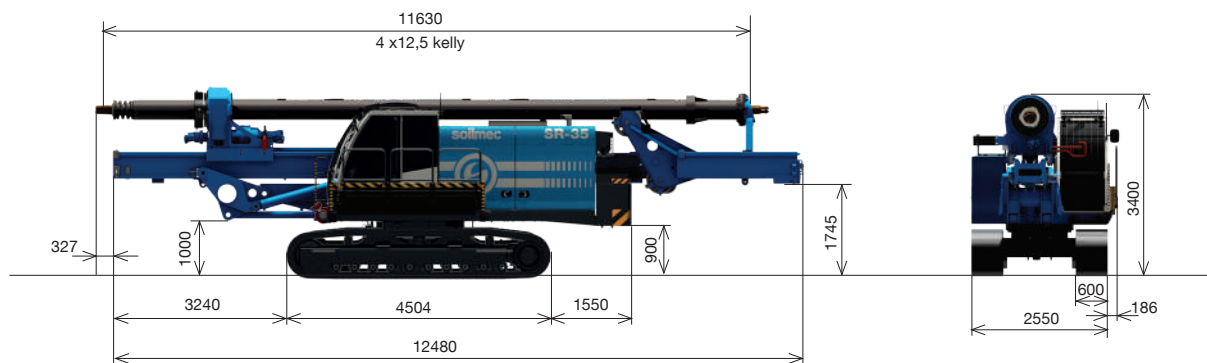
Continuous Flight Auger



CFA - Continuous Flight Auger - 4- lines pull		
Operating weight w/o auger (std - extended)	36000 - 38000 kg	79366 - 83775 lb
Max pile diameter	900 mm	35 in
Max pile depth (c/w 8 m - 26 ft sleeve extension)	21 m	69 ft
Max pile depth with extended kit (c/w 8 m - 23 ft sleeve ext.)	25 m	82 ft
Extraction force	380 kN	85426 lbf
Additional crowd force on auger	100 kN	22481 lbf

Transport

Dimensions and Weights



Transport standard version

Transport length	12480 mm	41 ft
Transport width	2550 mm	8 ft
Transport height	3400 mm	11 ft
Transport weight (c/w 4x9 Kelly)	36600 kg	80688 lb

Transport CFA version (4-line pull) Standard - extended

Transport weight	36000 - 38000 kg	79366 - 83775 lb
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Transport LHR version

8.5

Transport weight ¹	39500 kg	87083 lb
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¹ c/w 5 x 4,5 m, kelly bar and additional counterweight

Technical data

Undercarriage



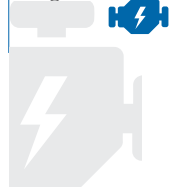
Undercarriage		
Type	variable gauge, telescoping sides frames	
Overall width with retracted crawlers	2550 mm	100 in
Overall width with extended crawlers	3750 mm	148 in
Track shoes width	600 mm	24 in
Overall length of crawlers	4504 mm	177 in
Travelling speed	2,0 km/h	1.2 mph

Upperframe



Upperframe		
Operators' cabin width	950 mm	37.4 in
Control system interface	DMS 4.0 touch 12"	
Tail swing radius	3800 mm	150 in
Slewing speed	3 rpm	3 rpm
Stackable counterweight	3500 kg	7716 lb
Additional counterweight	up to 2200 kg	up to 4850 lb

Engine



Engine		
Engine model	Cummins B6.7	
Power rating	209 kW @ 2000 rpm	280 HP @ 2000 rpm
Engine conforms to Exhaust emission Std.	EU stage V	US EPA Tier 4f
Fuel tank capacity	380 l	100 US gal
AD Blue tank capacity	57 l	15 US gal
Sound pressure level in cab	73 dB(A)	73 dB(A)
Sound power level	107 dB(A)	107 dB(A)

Hydraulic system



Hydraulic system		
Main pump flow	390 l/min	103 US gal/min
Hydraulic oil tank capacity	300 l	79 US gal

Rotary



Rotary		
Max torque	141 kNm	103995 lb*ft
Rated torque	130 kNm	96103 lb*ft
Max drilling speed	39 rpm	39 rpm
Spin off speed	146 rpm	146 rpm

Crowd system



CCS Cylinder Crowd System		
Stroke	3500 mm	138 in
Pull up force	124 kN	27876 lbf
Pull down force	102 kN	22930 lbf
Speed up	19,4 m/min	64 ft/min
Speed up	8,6 m/min	28 ft/min

Winches



Main winch		
Line pull (1st layer)	140 kN	31475 lbf
Rope diameter	22 mm	0.87 in
Rope speed (1st layer)	76 m/min	249 ft/min

Auxiliary winch		
Line pull (1st layer)	65 kN	14612 lbf
Rope diameter	18 mm	0.71 in

Configurations

UNDERCARRIAGE

Variable gauge, telescopic side frames	●
600 mm (24 in) wide shoe	●
Machine anchor points for transport	●
Radio remote control for tramming operation	●

UPPER STRUCTURE

Diesel engine Cummins QSB 6.7	○
Diesel engine Cummins B 6.7 EU Stage V – US EPA Tier 4f	●
Start and slow system	●
Automatic Greasing package	○
PTO kit for washing lancer	○
P rearrangement for Air compressor kit	○
Air compressor kit	○
Foldable side catwalks for cabin with hand rails	●
Machine lifting kit (harbor use)	○
Acoustic & light alarm for tramming	●
Lighting led system package	●
Front support for tools	●
Additional counterweight 2200 kg (4850 lb)	○

CAB

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

CONTROL AND MONITORING SYSTEM

DMS ON BOARD 4.0 with technological package	●
DMS PC	●

DMS manager 4.0	○
GSM / GPRS / WIFI Modem	●
DMS ON BOARD adjustable monitor 12" touch screen	●
Video control by 4 cameras with display in the cab	●
AI videocontrol by 6 cameras with people detection (J-Eye), alternative to the videocontrol by 4 cameras	○

WINCHES

Main winch SW140 model	●
Load cell for main winch	○
Main & service winch pull instant value displayed on DMS On Board	○
Limit switch for rope winding and winches	●
Depthmeter for main winch	●
Anti-slack system for main winch	○
Service winch SW65 model	●
Load cell for service winch	●

ROTARY UNIT

Replaceable drive quill	●
Quick disassembling rotary kit	○

MAST

Segmental mast	●
Monolithic mast	○
Mast extension kit	○
Mast guide cleaner	●
Kit for assisted raising mast (<i>patented</i>)	●
Hydraulic cathead folding kit	○
Cathead greasing kit	○
Double positioning of cylinder (<i>in LHR version</i>)	○
Double positioning of cylinder (<i>in LHR version</i>)	●

KELLY BAR TECHNOLOGY

Rotary sleeve with 3 ribs	●
Spin off discharging system	●

Cardan joint	○
Flange for casing driving d.1300 mm (51.1 in)	○
Flange for casing driving d.900 mm (34.4 in)	○
Automatic return to the centre hole	●
Kelly bar guide	●

OTHER TECHNOLOGIES

HD-4 or HD-5 Sleeve 3 m (9.8 ft) long	○
HD-4 or HD-5 Sleeve 6 m (19.7 ft) long	○
HD-4 or HD-5 Sleeve 7 m (23 ft) long	○
HD-4 or HD-5 Sleeve 8 m (27.8 ft) long	○
Package for CFA 4-lines pull 19 m (62 ft) auger length	○
Package for CFA 4-lines pull 25 m (82 ft) auger length	○
Automatic auger lifting	●
Autodrilling package	●
Autorotary package	●
CFA 4-lines pull additional pull-down winch 100 kN (22481 lbf)	●
Hydraulic universal openable lower guide d.900 mm (35 in)	●
Auger cleaner star type	○
Double roller auger cleaner d.900 mm (35 in)	○
Two pressure transducers kit	○
WiFi sensore for concrete pressure	○
Warning system for CFA sleeve extension coupling (<i>patent pending</i>)	○
Hydraulic prearrangement for VTH-1 vibrator	○
4" swivel and bent curve	●
5" swivel and bent curve	○
Drilling energy measurement kit for CFA	●
Automatic greasing kit for concrete swivel	○
Concrete line for turret and mast	○

● standard

○ optional



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