

Hydraulic Rotary Rig

# SR-30 EVO

2017



**soilmec**   
Drilling and Foundation Equipment

# SR-30 EVO Hydraulic Rotary Rig

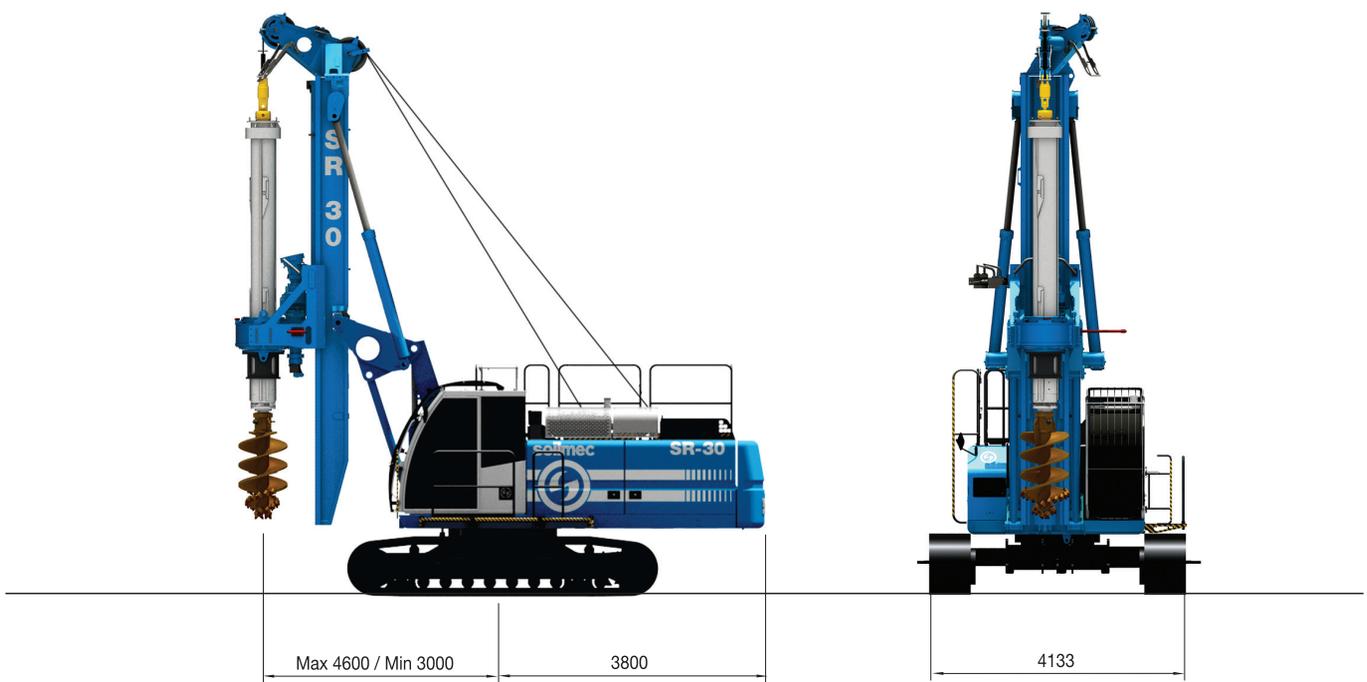
## LDP APPLICATIONS - Crowd System with Cylinder



LDP - Large Diameter Piles - CCS version		
Operating weight w/o kelly	31900 kg	70327 lb
Max pile diameter along mast	1500 mm	59 in
Max pile diameter w/o lower mast section, tool below mast	3000 mm	118 ft
Max pile depth - friction kelly	56,9 m	187 ft
Max pile depth - locking kelly	45,4 m	149 ft
Max pile depth with mast extension kit - friction kelly	60 m	197 ft

# SR-30 EVO Hydraulic Rotary Rig

## LHR Low Head Room APPLICATIONS

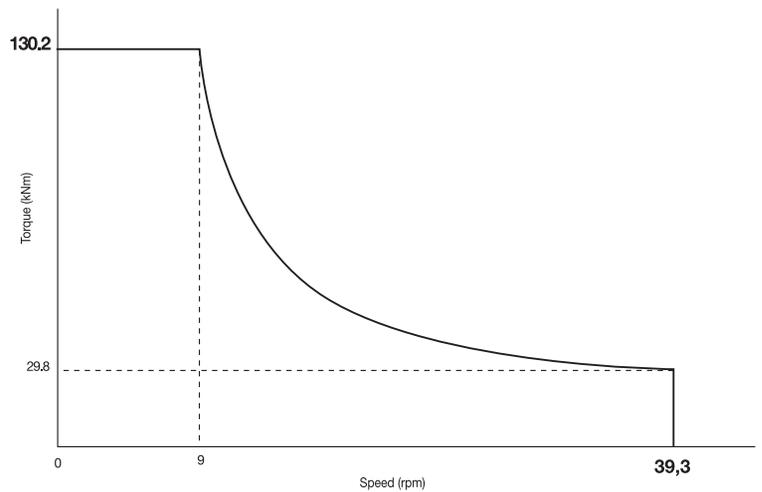
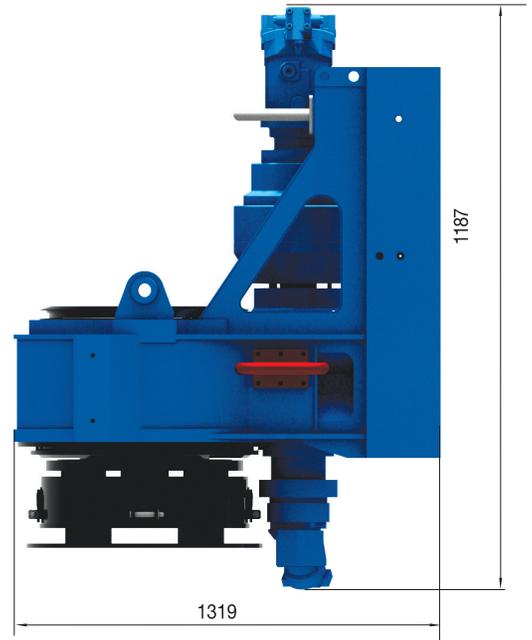
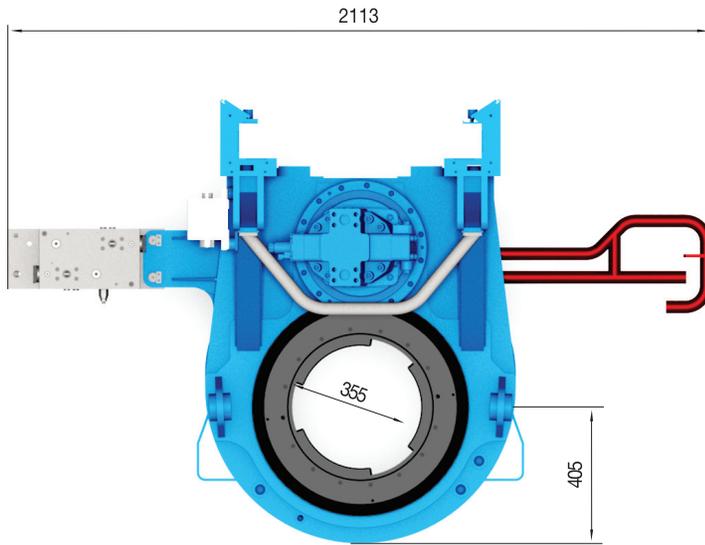


### LHR\_Low Head Room

Operating weight c/w 4x4 m kelly & additional cwt & shorter mast	32000 kg	73193 lb
Operating height shorter mast (1.3 mast ext.)	7,5 (8,8) m	25 (29) ft
Max pile diameter	1500 (3000) mm	59 (118) in
Max pile depth	23,3 m	76 ft
Crowd system stroke	2550 mm	100.39 in
Crowd force pull (down/up)	101/124 kN	22705/27876 lbf

# SR-30 EVO Hydraulic Rotary Rig

## ROTARY HEAD



### Rotary drive

Max torque (intermittent)	<b>130,2 kNm</b>	96029 lbf*ft
Rated torque	<b>113,4 kNm</b>	83638 lbf*ft
Speed of rotation (max)	<b>39,3 rpm</b>	39.3 rpm
Spin-off speed	<b>143 rpm</b>	143 rpm

# SR-30 EVO Hydraulic Rotary Rig

Safety equipment compulsory for EC marking  
On request whenever EC marking is not needed

- Walkways for cab 600 mm (2 ft) wide
- Handrails kit
- Acoustic alarm for rotation and translation
- Radio remote control for tramming on ramp
- Video-camera set with 4 cameras included
- Rearview mirrors
- Led lights
- Oil discharge conveying system
- Load cell for service winch

# SR-30 EVO Hydraulic Rotary Rig

## TECHNICAL DATA SHEET

<b>CCS - Cylinder Crowd System</b>		
- Crowd force pull (down/up)	<b>101 / 124 kN</b>	22705 / 27876 lbf
- Stroke	<b>3500 mm</b>	138 in
- Speed up	<b>19,4 m/min</b>	64 ft/min
- Speed down	<b>8,6 m/min</b>	28 ft/min
<b>Engine</b>		
	<b>Cummins QSB6.7</b>	Cummins QSB6.7
- Rated output	<b>168 kW @ 2200 rpm</b>	225 HP @ 2200 rpm
- Engine conforms to Exhaust emission Standard	<b>EU Stage IV - US EPA Tier 4f</b>	EU Stage IV - US EPA Tier 4f
- Diesel tank capacity	<b>350 l</b>	92 US gal
<b>Main winch</b>		
	<b>controlled descend</b>	controlled descend
- Line pull (1st layer)	<b>135 kN</b>	30349 lbf
- Rope diameter	<b>22 mm</b>	0.8 in
- Line speed (max.)	<b>79 m/min</b>	258 ft/min
<b>Auxiliary winch</b>		
	<b>controlled descend</b>	controlled descend
- Line pull (1st layer)	<b>65 kN</b>	14612 lbf
- Rope diameter	<b>18 mm</b>	0.7 in
- Line speed (max.)	<b>67 m/min</b>	220 ft/min
<b>Hydraulic system</b>		
- Flow rates (main circuits)	<b>2 x 176 l/min</b>	2 x 46 US gal/min
- Flow rates (auxiliary circuits)	<b>97 l/min</b>	26 US gal/min
- Hydraulic oil tank capacity	<b>380 l</b>	100 US gal
<b>Undercarriage</b>		
	<b>variable gauge, telescoping sides</b>	variable gauge, telescoping sides
- Overall width of crawlers retracted	<b>2550 mm</b>	100 in
- Overall width of crawlers extended	<b>3700 mm</b>	146 in
- Width of triple grouser track shoes	<b>600 mm</b>	24 in
- Overall length of crawlers	<b>4510 mm</b>	178 in
- Traction force	<b>290 kN</b>	65193 lbf
- Travel speed	<b>2,2 km/h</b>	1.4 mph
<b>Mast inclination</b> (Backward/ Forward/Lateral)	<b>10<sub>i</sub> / 4<sub>i</sub> / 3<sub>i</sub></b>	10 <sub>i</sub> / 4 <sub>i</sub> / 3 <sub>i</sub>

## STANDARD EQUIPMENT

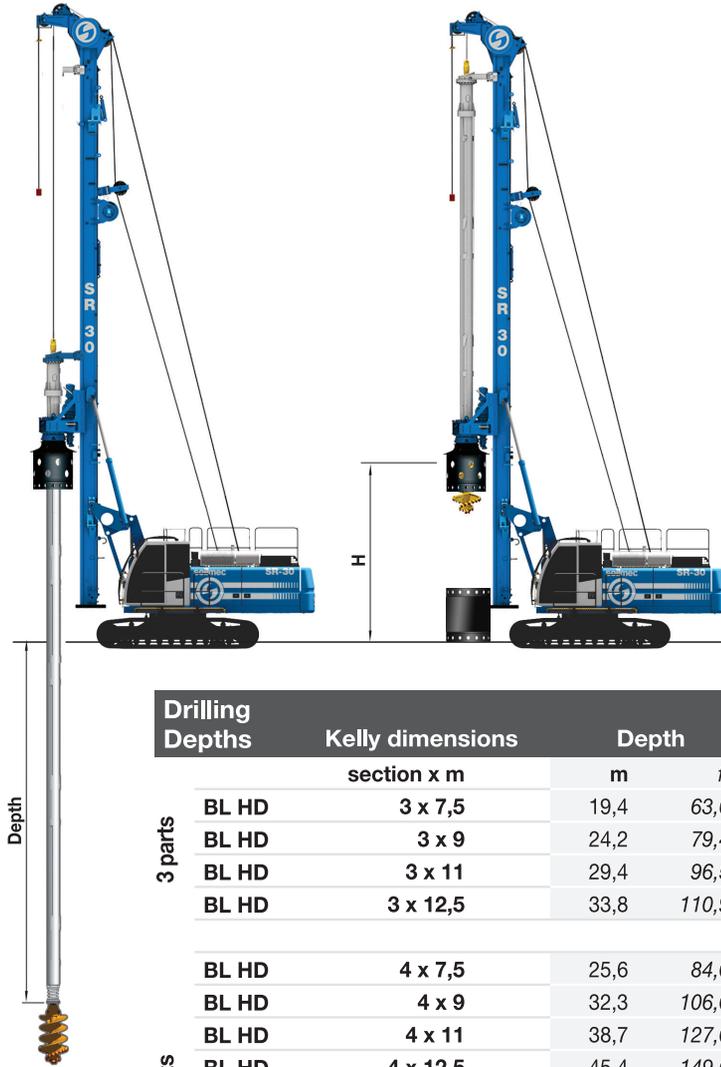
¥ Main and auxiliary winch controlled descent type with special grooving	¥ Rotary speed measuring device	¥ Electric refuelling pump
¥ Hoist limit switch on main and service rope	¥ Variable gauge undercarriage	¥ High comfortable Cab ( 950 mm wide)
¥ Swivel for main rope	¥ Wider triple grouser track shoes	¥ Protective roof grate (FOPS compliant)
¥ Service rope parking point	¥ Transport securing lugs on crawler units	¥ Adjustable console with sliding support for DMS 7" touch screen
¥ GSM/GPRS/GPS modem kit	¥ Oscillator attachment brackets	¥ Engine and Diesel particulate diagnostic panel
¥ DMS system electronic monitoring and visualization system	¥ Lower foldable mast element	¥ Ergonomic seat with hydraulic suspension
¥ Mast inclination measurement on X/Y axes (digital/analog display)	¥ Cardan joint	¥ Heat and Air Conditioning control unit
¥ Automatic vertical mast alignment	¥ Flange for casing driving	¥ Courtesy lights in the cab
¥ Depth measuring device	¥ Kelly swivel	¥ Radio and CD player
	¥ Kelly guide	¥ Sliding door
	¥ On board lighting set	¥ Auto low idle system
	¥ On board tool set	

## OPTIONAL EQUIPMENT

¥ Diesel Engine with EU Stage III A - US EPA Tier 3 motorization	¥ Mast extension for special configuration	¥ Prearrangement for VTH-1
¥ Automatic greasing kit	¥ Automatic hydraulic kit for upper mast folding	¥ Automatic mast raising kit
¥ Lubricator pump kit for rotary pads cradle	¥ Limit switch for rope winding and winches	¥ Hydrocleaner kit
¥ Flange for bucket opening	¥ Free fall main and service winch	¥ Automatic return to centre hole
¥ Hydraulic prearrangement for casing oscillator	¥ Double roller auger cleaner	¥ DMS 12 touch screen
	¥ Star auger cleaner	¥ Autorotary kit

# SR-30 EVO Hydraulic Rotary Rig

## KELLY DRILLING SYSTEM



Drilling Depths	Kelly dimensions	Depth		Weight		CCS SYSTEM	
		m	ft	ton	ton (US)	H	
	section x m					m	ft
3 parts	BL HD 3 x 7,5	19,4	63,6	2,9	3,2	5	16,4
	BL HD 3 x 9	24,2	79,4	3,4	3,7	5	16,4
	BL HD 3 x 11	29,4	96,5	4	4,4	4,6	15,1
	BL HD 3 x 12,5	33,8	110,9	4,4	4,9	3,1	10,2
4 parts	BL HD 4 x 7,5	25,6	84,0	2,9	3,2	5	16,4
	BL HD 4 x 9	32,3	106,0	3,4	3,7	5	16,4
	BL HD 4 x 11	38,7	127,0	4	4,4	4,7	15,4
	BL HD 4 x 12,5	45,4	149,0	4,4	4,9	3,1	10,2
	FR HD 4 x 7,5	25,6	84,0	2,9	3,2	5	16,4
	FR HD 4 x 9	32,4	106,3	3,4	3,7	5	16,4
	FR HD 4 x 11	38,9	127,6	4	4,4	4,7	15,4
	FR HD 4 x 12	44,8	147,0	4,3	4,7	3,5	11,5
	FR HD 4 x 12,5	45,4	149,0	4,4	4,9	3,1	10,2
	5 parts	FR HD 5 x 9	40,1	131,6	4,1	4,5	5
FR HD 5 x 10		45,4	149,0	4,4	4,9	5	16,4
FR HD 5 x 11		48,5	159,1	4,8	5,3	4,7	15,4
FR HD 5 x 12		54,8	179,8	5,2	5,7	3,5	11,5
FR HD 5 x 12,5		56,9	186,7	5,4	6,0	3,1	10,2

### Max extension version Drilling Depths

	section x m	m	ft	m	ft	m	ft
FR HD	4 x 13	48,2	158,1	4,6	5,1	2,4	7,9
FR HD	5 x 13	60,2	197,5	5,5	6,1	2,4	7,9

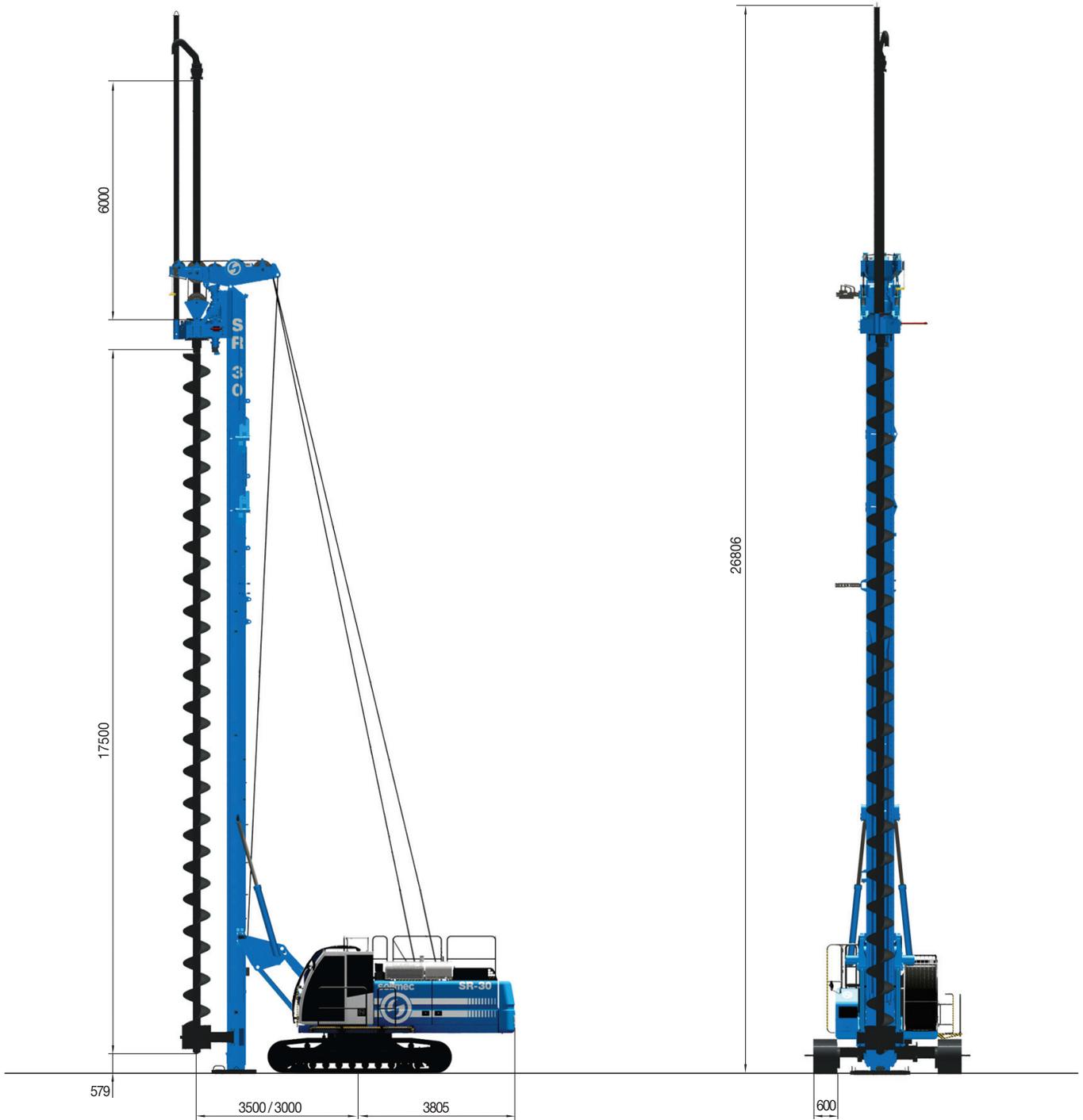
### LHR version Drilling Depths

	section x m	m	ft	m	ft	m	ft
BL HD	4 x 4	13,8	45,3	1,9	2,1	1,6	5,2
BL HD	4 x 5,5*	19,1	62,7	2,3	2,5	1,6	5,2
BL HD	5 x 4	16,8	55,1	3,2	3,5	1,6	5,2
BL HD	5 x 5,5*	23,3	76,4	2,8	3,1	1,6	5,2

\* c/w 1,3m mast extension

# SR-30 EVO Hydraulic Rotary Rig

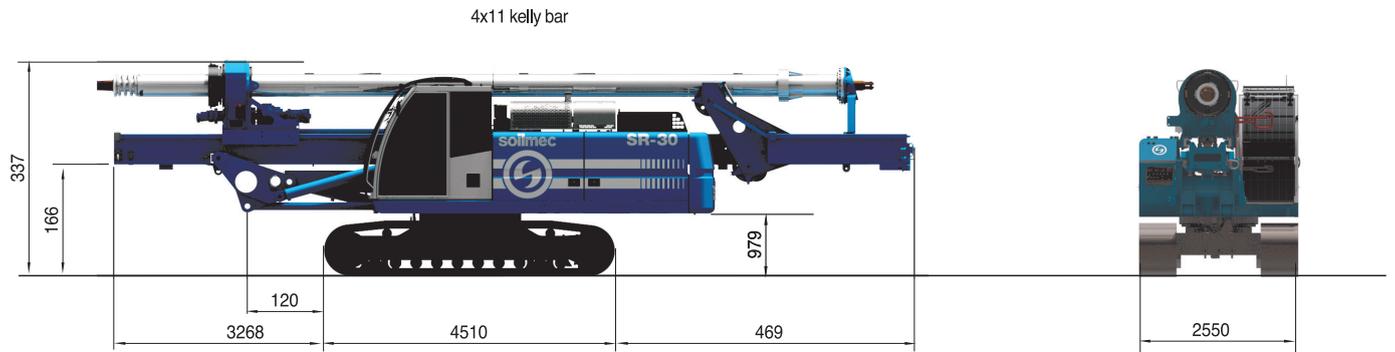
## CFA APPLICATIONS



CFA - Continuous Flight Auger	4° Line pull		Special version	
Operating weight w/o auger	36500 kg	80469 lb	38400 kg	84657 lb
Max pile diameter	900 mm	35.5 in	900 mm	35.5 in
Max pile depth with star auger cleaner c/w 6 m auger extension	19 m	62 ft	23 m	75.5 ft
Max pile depth with double roller auger cleaner c/w 6 m auger extension	17,5 m	57 ft	21,5 m	70.5 ft
Extraction force	380 kN	85426 lbf	380 kN	85426 lbf
Crowd force on auger (optional)	100 kN	22481 lbf	100 kN	22481 lbf

# SR-30 EVO Hydraulic Rotary Rig

## TRANSPORT, DIMENSIONS AND WEIGHTS



All technical data are purely indicative and subject to change without notice

Technical data sheet SR30-005 EVO 02/2017

Transport configuration		
Width	2550 mm	100.39 in
Length	12430 mm	489.4 in
Height	3379 mm	133 in
Weight c/w 4x9m Kelly	35500 kg	78263 lb

This brochure has been edited and distributed by SOILMEC Spa. The present document cancels and overrides any previous ones. This brochure may not be distributed, reproduced or exhibited without SOILMEC Spa. authorization in according to SOILMEC web site disclaimer condition.

SOILMEC Spa distributes machinery and structures all over the world, supported by SOILMEC Spa subsidiary companies and dealers. The complete Soilmec network list is available on the webpage [www.soilmec.it](http://www.soilmec.it)