

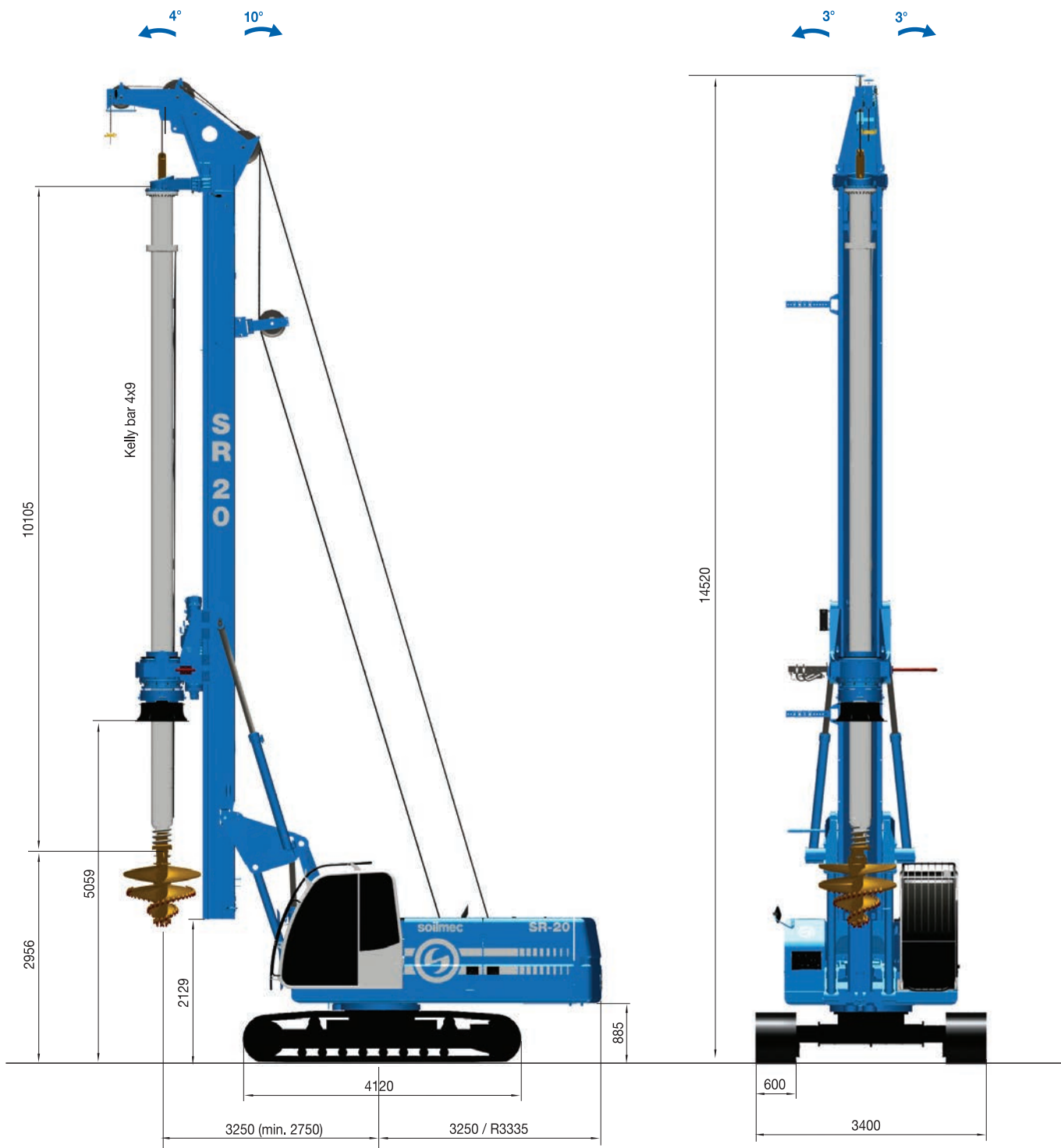


Hydraulic Rotary Rig

# SR-20 EVO

# SR-20 EVO Hydraulic Rotary Rig

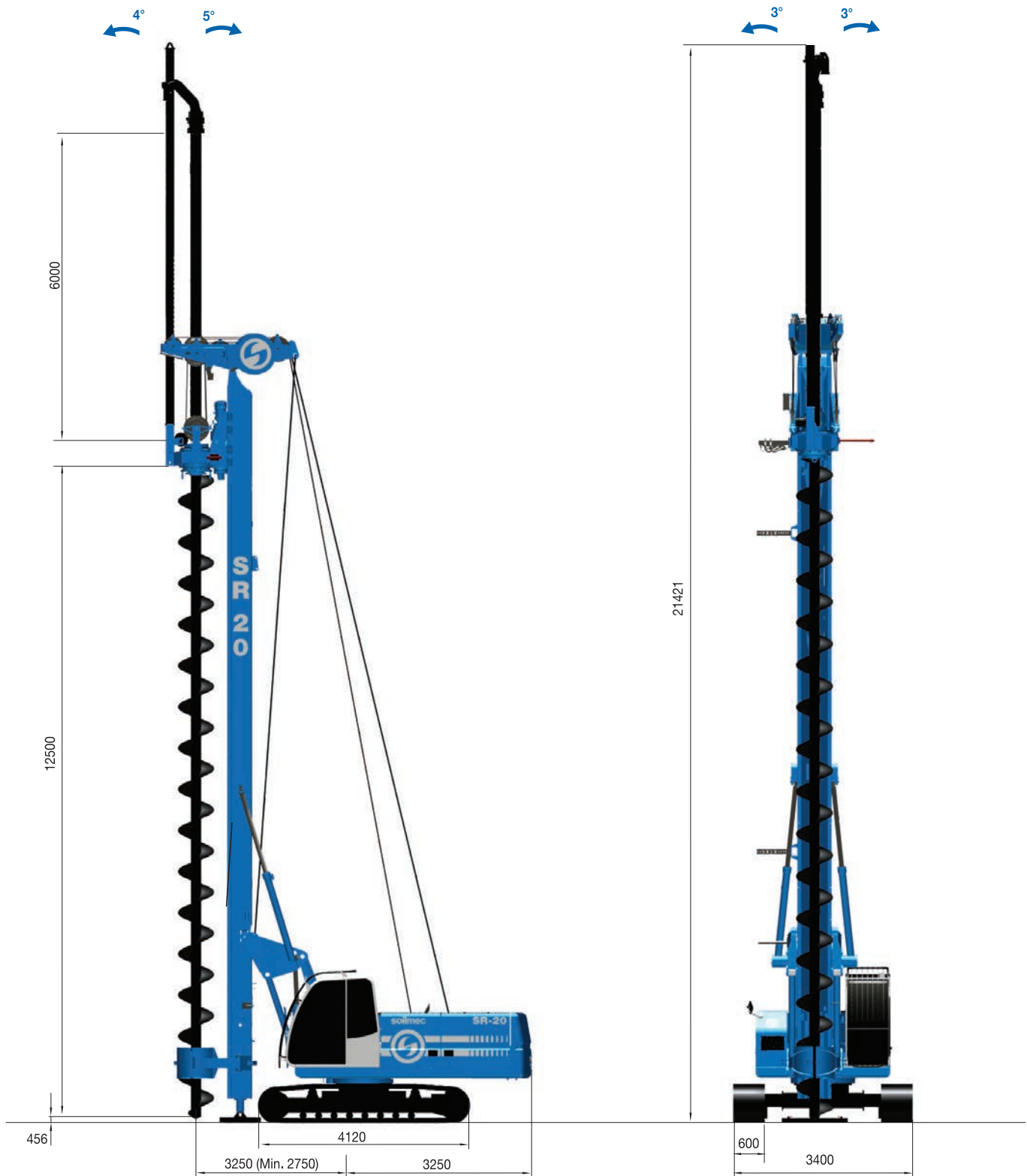
## LDP APPLICATIONS



LDP - Large Diameter Piles - CCS version		
Operating weight c/w 4x9 kelly bar	27700 kg	61067 lb
Maximum pile diameter	1200 mm	47 in
Maximum pile depth - friction kelly	40 m	131 ft
Maximum pile depth - locking kelly	32 - 37* m	105 - 121.5* ft

\* c/w non self-mounting 4x10,5 kelly bar

## SR-20 EVO Hydraulic Rotary Rig CFA APPLICATIONS 4° line pull



### CFA - Continuous Flight Auger - 4° line pull

Maximum pile diameter	750 mm	30 in
Maximum pile depth c/w 6 m auger extension	18,3 m	60 ft
Maximum pile depth c/w 6 m auger extension and auger cleaner	17,1 m	56 ft
Extraction force	280 kN	62945 lbf
Crowd force on auger (opt.)	37 kN	8318 lbf

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## KELLY DRILLING SYSTEM



Depth	Drilling Depths	Kelly dimensions	Depth		Weight		CCS SYSTEM		
			section x m	m	ft	ton	ton (US)	H	
								m	ft
2 parts	BL HD	2 x 6	11,2	36.7	1,3	2866	6,6	21.7	
	BL HD	2 x 9	17,3	56.8	1,8	3968	3,4	11.2	
3 parts	BL HD	3 x 7	19,5	64.0	2,2	4850	5,3	17.4	
	FR HD	3 x 7	19,9	65.3	1,8	3968	5,4	17.7	
4 parts	BL HD	4 x 6	22,0	72.2	2,2	4850	6,4	21.0	
	BL HD	4 x 6,5	22,9	75.1	2,3	5071	6,2	20.3	
	BL HD	4 x 7	26,1	85.6	2,4	5291	5,4	17.7	
	BL HD	4 x 9	33,6	110.2	3,0	6614	3,6	11.8	
	BL HD	4 x 10,5	40,0	131.2	3,4	7496	2,1	6.8	
	FR HD	4 x 7	26,1	85.6	2,4	5291	5,4	17.7	
	FR HD	4 x 8	30,0	98.4	2,7	5952	4,4	14.4	
	FR HD	4 x 9	34,0	111.5	3,0	6614	3,4	11.2	
5 parts	FR HD	5 x 7	32,0	105.6	3,0	6614	5,4	17.7	
	FR HD	5 x 8	37,1	121.7	3,4	7496	4,4	14.4	
	FR HD	5 x 9	42,3	138.8	3,7	8157	3,4	11.2	

# SR-20 EVO Hydraulic Rotary Rig

## TECHNICAL DATA SHEET

<b>Rotary Drive</b>	<b>Single gear, Spin off type</b>	<i>Single gear, Spin off type</i>
- Max torque (restricted-intermittent)	<b>114 kNm</b>	84082 lbf*ft
- Rated torque	<b>101 kNm</b>	74494 lbf*ft
- Maximum drilling speed	<b>37 rpm</b>	37 rpm
- Spinoff speed	<b>101 rpm</b>	101 rpm
<b>CCS - Cylinder Crowd system</b>		
- Stroke	<b>3500 mm</b>	138 in
- Max pull up force	<b>124 kN</b>	27876 lbf
- Max pull down force	<b>85 kN</b>	19109 lbf
- Speed up	<b>7 / 12 m/min</b>	23 / 39,4 ft/min
- Speed down	<b>5,5 / 9,5 m/min</b>	18 / 31 ft/min
<b>Main winch</b>	<b>controlled descent</b>	<i>controlled descent</i>
- Line pull (1st layer)	<b>104 kN</b>	47210 lbf
- Rope diameter	<b>20 mm</b>	1 in
- Line speed (1st layer)	<b>72 m/min</b>	236 ft/min
<b>Auxiliary winch</b>	<b>controlled descent</b>	<i>controlled descent</i>
- Line pull (1st layer)	<b>56 kN</b>	17985 lbf
- Rope diameter	<b>16 mm</b>	0.63 in
- Line speed (max.)	<b>57 m/min</b>	187 ft/min
<b>Engine type</b>	<b>Cummins QSB 4.5</b>	<i>Cummins QSB 4.5</i>
- Power rating	<b>119 kW @ 2200 rpm</b>	159 HP @ 2200 rpm
- Engine conforms to Exhaust emission Standard	<b>EU stage IIIB, US EPA Tier 4i</b>	<i>EU stage IIIB, US EPA Tier 4i</i>
- Aspiration	<b>Turbocharged and charge air cooled</b>	<i>Turbocharged and charge air cooled</i>
- Diesel tank capacity	<b>350 l</b>	92 US gal
<b>Hydraulic system</b>		
- Rated pressure	<b>31 MPa</b>	4496 psi
- Flow rates (main circuits)	<b>242 l/min</b>	64 US gal/min
- Flow rates (auxiliary circuits)	<b>59 + 35 l/min</b>	15.6 + 9.2 US gal/min
- Hydraulic oil tank capacity	<b>250 l</b>	66 US gal
<b>Undercarriage</b>	<b>variable gauge, telescoping side frames</b>	<i>variable gauge, telescoping side frames</i>
- Width of triple grouser track shoes	<b>600 mm</b>	24 in
- Overall width of crawlers retracted	<b>2500 mm</b>	99 in
- Overall width of crawlers extended	<b>3400 mm</b>	134 in
- Overall length of crawlers	<b>4120 mm</b>	162 in
- Traction force	<b>219 kN</b>	49165 lbf
- Travel speed	<b>2,2 km/h</b>	1.4 mph
<b>Mast inclination - Backward/ Forward/Lateral</b>	<b>10/4/3°</b>	10/4/3°

## STANDARD EQUIPMENT

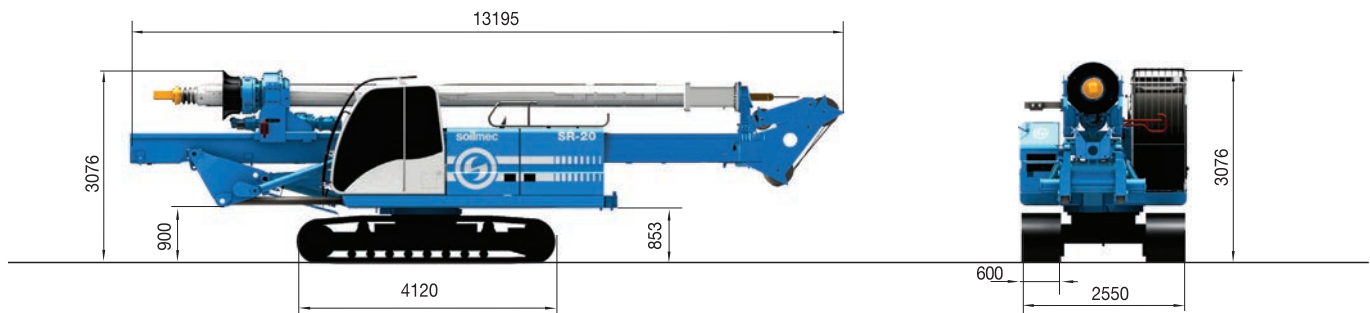
- Main and auxiliary winch controlled descent type with special grooving
- Hoist limit switch on main rope
- Service rope parking point
- Mast inclination measurement on X/Y axes (digital/analog display)
- Automatic vertical mast alignment
- Depth measuring device on main winch
- Speed measuring device on rotary
- Crowd pressure setting
- Emergency mode of operation for engine
- Engine diagnostic system
- Diagnostic panel for hydraulic functions
- Counterweight (2500 kg)
- Transport securing lugs on crawler units
- Access ladder on upper carriage
- On board lighting set
- On board tool set
- High comfort operator's cab (850 mm width)
- Protective roof grate (FOPS compliant)
- Air conditioning system
- Radio and CD player
- Videocamera set
- Rearview set

## OPTIONAL EQUIPMENT

- DMS system electronic monitoring and visualization system - 12" touch screen
- Biodegradable oil
- Pressurized air conditioning system
- Freefall auxiliary winch (56 kN)
- Central lubrication system
- Swivel for auxiliary rope
- 800 mm triple grouser
- Truck shoes
- EU stage IIIA, US EPA Tier 3 Diesel Engine

# SR-20 EVO Hydraulic Rotary Rig

## TRANSPORT, DIMENSIONS AND WEIGHTS



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

### Transport configuration

<b>Width</b>	<b>2550 mm</b>	<b>100 in</b>
<b>Length LDP version / CFA version</b>	<b>13200 - 13460 mm</b>	<b>520 - 530 in</b>
<b>Weight - CCS version c/w 4x9 kelly bar</b>	<b>27700 kg</b>	<b>61070 lb</b>
<b>Weight - CCS version w/o rotary, counterweight - Min transport</b>	<b>19800 kg</b>	<b>43652 lb</b>
<b>Weight - CFA version</b>	<b>24500 kg</b>	<b>54013 lb</b>

Technical data sheet SR20-002 02/2015

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