



Hydraulic Rotary Rig

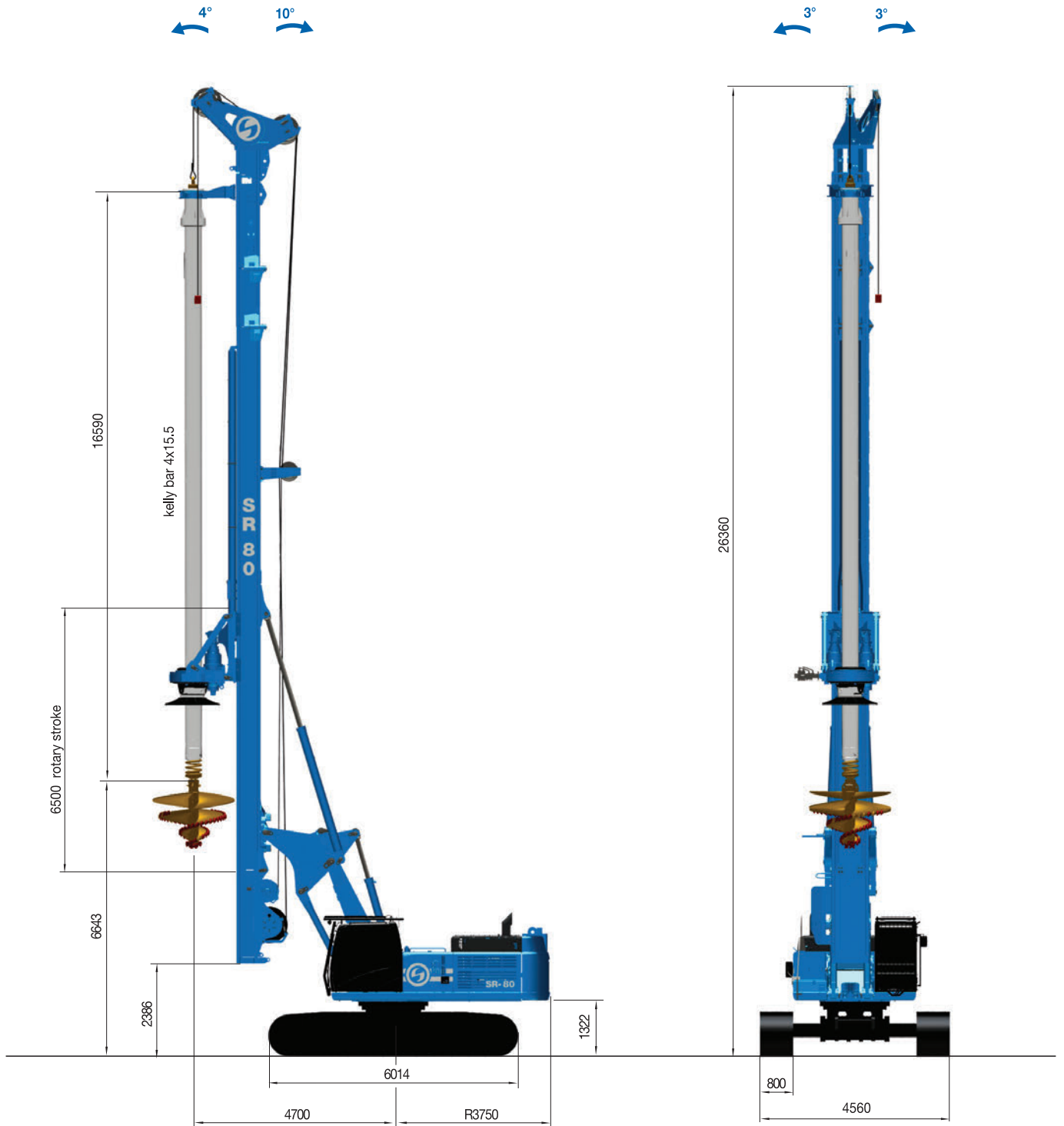
SR-80

EVO



SR-80 EVO Hydraulic Rotary Rig

LDP APPLICATIONS - Crowd System with Cylinder

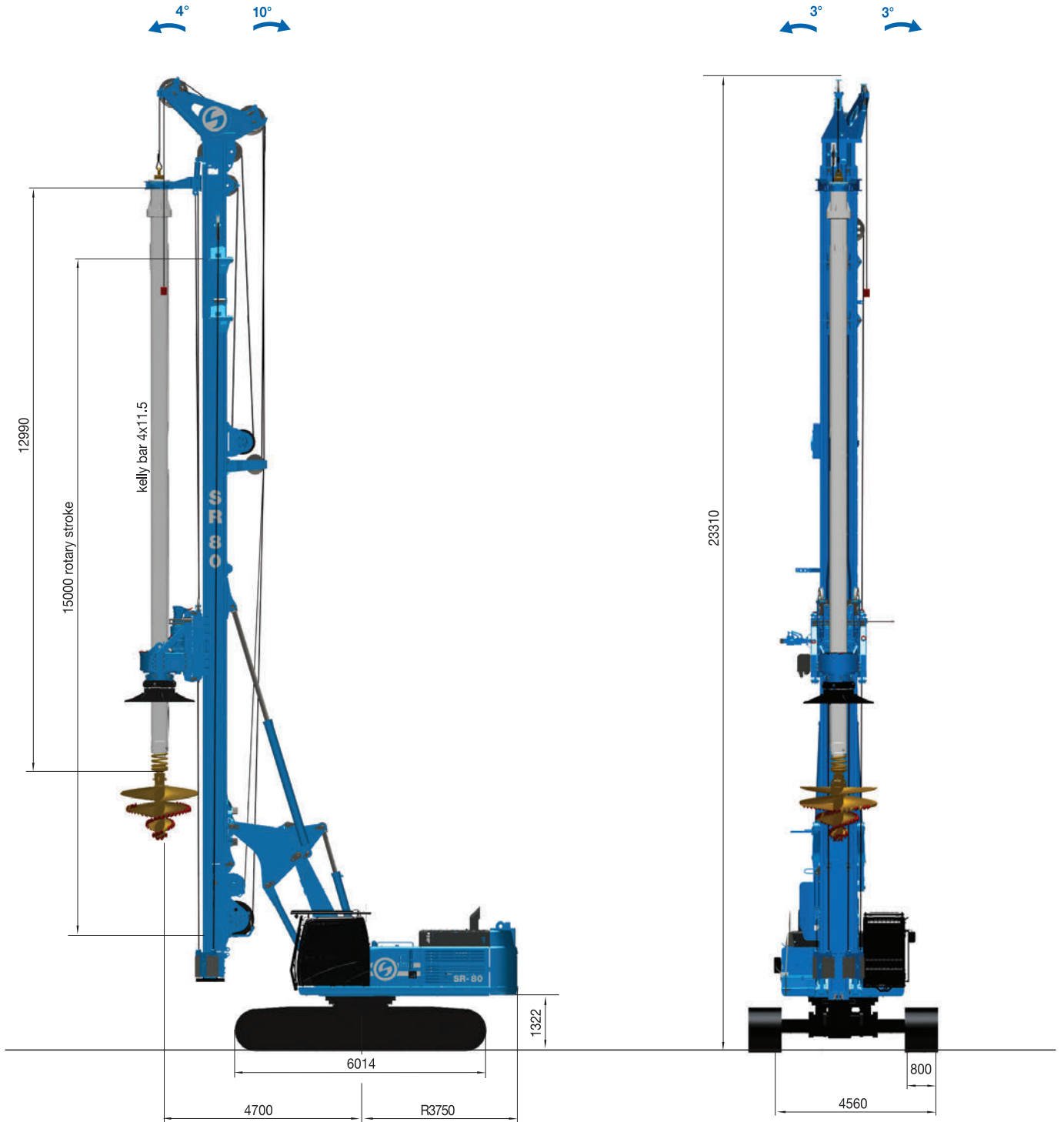


LDP - Large Diameter Piles - CCS version

Operating weight w/o kelly bar	79300 kg	186289 lb
Maximum pile diameter	2000 mm	79 in
Maximum pile diameter with special version	2500 mm	98.4 in
Maximum pile depth - friction kelly	92,4 m	303 ft
Maximum pile depth - locking kelly	73,4 m	241 ft

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LDP APPLICATIONS - Crowd System with Winch

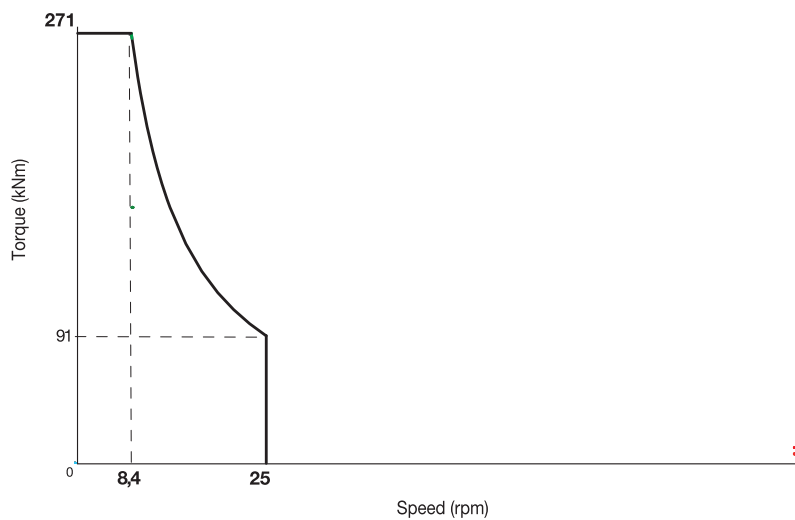
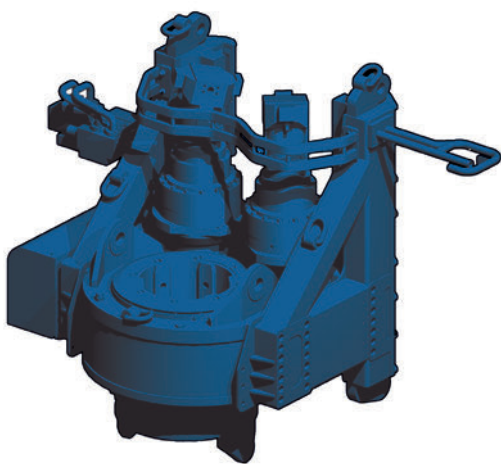
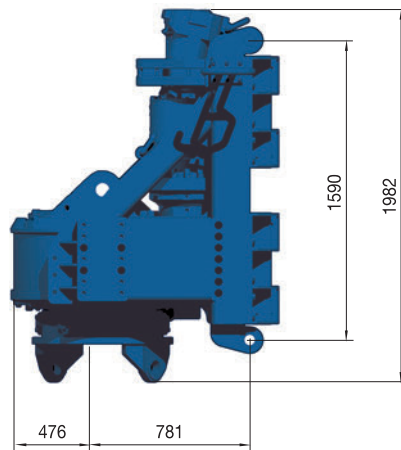
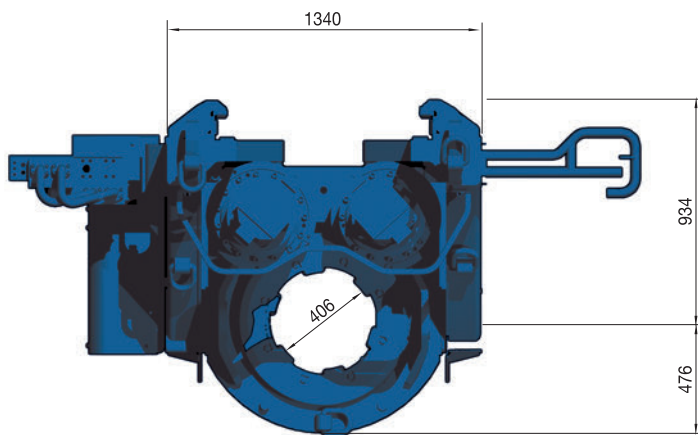


LDP - Large Diameter Piles - WCS version

Operating weight w/o kelly bar	80800 kg	191910 lb
Maximum pile diameter	1600 mm	63 in
Maximum pile depth - friction kelly	77 m	253 ft
Maximum pile depth - locking kelly	62 m	203 ft

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ROTARY HEAD



Rotary Drive - Single gear, Spin off type

- Max torque*	271 kNm	199655 lbf*ft
- Rated torque	251 kNm	185420 lbf*ft
- Maximum drilling speed	25 rpm	25 rpm
- Spinoff speed	150 rpm	150 rpm

* Intermittent

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TECHNICAL DATA SHEET

CCS - Cylinder crowd system		
- Cylinder stroke	6500 mm	256 in
- Crowd force pull (down/up)	220 / 300 kN	49457 / 67442 lbf
- Speed up	9,4 m/min	31 ft/min
- Speed down	5 / 10,5 m/min	16 / 34 ft/min
WCS - Winch crowd system		
- Winch stroke	15000 mm	590 in
- Crowd force pull (down/up)	220 / 360 kN	49457 / 80930 lbf
- Speed up	8,6 / 30,8 m/min	28 / 101 ft/min
- Speed down	8,6 / 30,8 m/min	28 / 101 ft/min
Main winch	controlled descent	<i>controlled descent</i>
- Line pull (1st layer)	290 kN	65195 lbf
- Rope diameter	30 mm	1 in
- Line speed (max.)	91 m/min	299 ft/min
Auxiliary winch	controlled descent	<i>controlled descent</i>
- Line pull (1st layer)	100 kN	22481 lbf
- Rope diameter	19 mm	0. 75 in
- Line speed (max.)	65 m/min	213 ft/min
Engine type	CAT C13 ACERT	<i>CAT C13 ACERT</i>
- Rated output	328 kW @ 1800 rpm	440 HP @ 1800 rpm
- Engine conforms to Exhaust emission Standard	EU stage IIIA, US EPA Tier 3	<i>EU stage IIIA, US EPA Tier 3</i>
- Aspiration	Turbocharged and charge air cooled	<i>Turbocharged and charge air cooled</i>
- Diesel tank capacity	720 l	190 US gal
Hydraulic system rated pressure		
- Flow rates (main circuits)	2x 360 l/min	2x 95 US gal/min
- Flow rates (auxiliary circuits)	100 l/min	22 US gal/min
- Hydraulic oil tank capacity	550 l	145 US gal
Undercarriage	variable gauge, telescoping side frames	<i>variable gauge, telescoping side frames</i>
- Overall width of crawlers retracted/extended	3000 / 4560 mm	118 / 180 in
- Width of triple grouser track shoes	800 mm	32 in
- Overall length of crawlers	6000 mm	236 in
- Traction force	679 kN	152643 lbf
- Travel speed	2,0 km/h	1.2 mph
Mast inclination - Backward/ Forward/Lateral	10°/ 4° / 3°	<i>10°/ 4° / 3°</i>

STANDARD EQUIPMENT

- Emergency mode of operation for engine
- Main and auxiliary winch controlled descent type
- Hoist limit switch on main and service rope
- Swivel for main rope
- Service rope parking point
- GSM/GPRS/GPS modem kit
- Variable gauge undercarriage
- Wider triple grouser track shoes
- Oscillator attachment brackets
- Lower foldable mast element
- Cardan joint
- Flange for casing driving
- Kelly swivel
- Kelly guide
- On board lighting set
- On board tool set
- Electric refuelling pump
- CAT comfortable Cab
- Protective roof grate (FOPS compliant)
- CAT Engine and Diesel particulate diagnostic panel
- Auto low idle system
- Ergonomic seat
- Heat and Air Conditioning control unit
- Courtesy lights in the cab
- Radio and CD player
- Rearview mirrors

OPTIONAL EQUIPMENT

- Transport securing lugs on crawler units
- Flange for bucket opening
- Hydraulic prearrangement for casing oscillator
- Hydraulic kit for foldable cathead
- Limit switch for rope winding and winches
- Free fall service winch
- Double roller auger cleaner
- Prearrangement for VTH-1
- Mast inclination measurement on X/Y axes (digital/analog display)
- Diagnostic panel for hydraulic function
- Depth measuring device
- Rotary speed measuring device
- Acoustic alarm for rotation and translation
- Video-camera set with 4 cameras included
- Load cell for service winch

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KELLY DRILLING SYSTEM



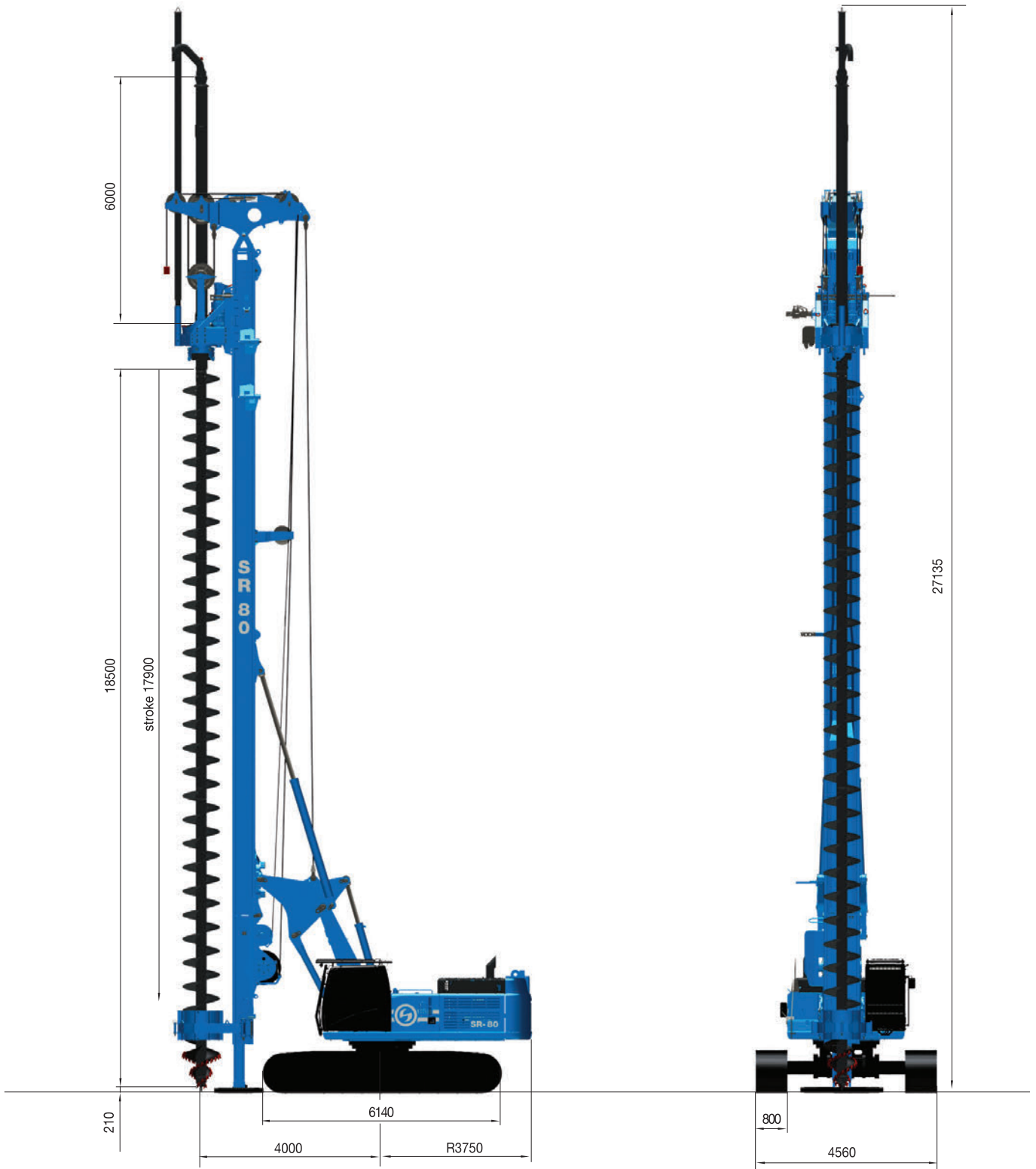
Depth	Drilling Depths	Kelly dimensions	Depth		Weight		CCS SYSTEM		WCS SYSTEM	
			Depth		Weight		H		H	
			section x m	m	ft	ton	ton (US)	m	ft	m
3 parts	BL HD	3 x 9	23,7 m	77.8 ft	4,8 t	5.29 ton	8,3 m	27.3 ft	10,0 m	32.7 ft
	BL HD	3 x 11,5	30,9 m	101.3 ft	5,9 t	6.45 ton	8,3 m	27.3 ft	7,7 m	25.2 ft
	BL HD	3 x 13,5	36,9 m	121.1 ft	6,7 t	7.38 ton	8,3 m	27.3 ft	5,7 m	18.5 ft
	BL HD	3 x 15,5	43,0 m	141.1 ft	7,5 t	8.31 ton	6,5 m	21.5 ft	3,5 m	11.6 ft
	BL HD	3 x 16,5	46,4 m	152.2 ft	8,0 t	8.77 ton	5,5 m	18.2 ft	2,5 m	8.3 ft
	BL HD	3 x 19,5	55,0 m	180.5 ft	9,2 t	10.16 ton	2,6 m	8.6 ft	n.a. m	n.a. ft
4 parts	BL HD	4 x 7,5	24,1 m	79.1 ft	4,3 t	4.79 ton	8,3 m	27.3 ft	11,9 m	39.1 ft
	BL HD	4 x 9	31,7 m	104.1 ft	5,0 t	5.56 ton	8,3 m	27.3 ft	10,1 m	33.0 ft
	BL HD	4 x 10,5	36,9 m	121.1 ft	5,7 t	6.32 ton	8,3 m	27.3 ft	8,8 m	28.9 ft
	BL HD	4 x 11,5	40,9 m	134.3 ft	6,2 t	6.83 ton	8,3 m	27.3 ft	7,7 m	25.2 ft
	BL HD	4 x 13,5	49,2 m	161.5 ft	7,1 t	7.86 ton	8,3 m	27.3 ft	5,7 m	18.6 ft
	BL HD	4 x 15,5	57,5 m	188.7 ft	8,1 t	8.88 ton	6,6 m	21.8 ft	3,6 m	12.0 ft
	BL HD	4 x 16,5	61,9 m	203.1 ft	8,5 t	9.39 ton	5,5 m	18.2 ft	2,5 m	8.3 ft
	BL HD	4 x 19,5	73,4 m	240.9 ft	9,9 t	10.92 ton	2,6 m	8.6 ft	n.a. m	n.a. ft
5 parts*	FR HD	4 x 10,5	36,7 m	120.5 ft	5,8 t	6.44 ton	8,3 m	27.3 ft	8,8 m	28.9 ft
	FR HD	4 x 11	38,9 m	127.7 ft	6,1 t	6.70 ton	8,3 m	27.3 ft	8,2 m	26.8 ft
	FR HD	4 x 11,5	40,9 m	134.3 ft	6,3 t	6.96 ton	8,3 m	27.3 ft	7,7 m	25.2 ft
	FR HD	4 x 12,5	44,4 m	145.7 ft	6,8 t	7.48 ton	8,3 m	27.3 ft	6,7 m	21.9 ft
	FR HD	4 x 13,5	49,4 m	162.1 ft	7,3 t	8.00 ton	8,3 m	27.3 ft	5,7 m	18.6 ft
	FR HD	4 x 14,5	53,1 m	174.3 ft	7,7 t	8.53 ton	7,7 m	25.4 ft	4,7 m	15.6 ft
	FR HD	4 x 15,5	56,5 m	185.4 ft	8,2 t	9.05 ton	6,6 m	21.6 ft	3,6 m	11.7 ft
	FR HD	4 x 16,5	61,9 m	203.1 ft	8,7 t	9.57 ton	5,5 m	18.2 ft	2,5 m	8.3 ft
	FR HD	4 x 19,5	73,4 m	240.9 ft	9,9 t	10.92 ton	2,6 m	8.6 ft	n.a. m	n.a. ft
	FR HD	5 x 10,5	46,0 m	151.0 ft	6,1 t	6.75 ton	8,3 m	27.3 ft	8,9 m	29.3 ft
	FR HD	5 x 11,5	51,4 m	168.7 ft	6,6 t	7.28 ton	8,3 m	27.3 ft	7,8 m	25.6 ft
	FR HD	5 x 12	53,3 m	174.9 ft	6,8 t	7.55 ton	8,3 m	27.3 ft	7,2 m	23.7 ft
	FR HD	5 x 13	60,3 m	197.9 ft	7,3 t	8.08 ton	8,3 m	27.3 ft	6,1 m	19.9 ft
FR HD	5 x 13,5	61,8 m	202.8 ft	7,6 t	8.35 ton	8,3 m	27.3 ft	5,8 m	19.0 ft	
FR HD	5 x 14	62,8 m	206.1 ft	7,8 t	8.61 ton	8,3 m	27.3 ft	5,4 m	17.7 ft	
FR HD	5 x 14,5	65,8 m	215.9 ft	8,1 t	8.88 ton	7,9 m	25.9 ft	4,9 m	16.1 ft	
FR HD	5 x 15,5	72,7 m	238.6 ft	8,5 t	9.41 ton	6,6 m	21.6 ft	3,6 m	11.7 ft	
FR HD	5 x 16,5	77,3 m	253.7 ft	9,0 t	9.94 ton	5,7 m	18.6 ft	2,7 m	8.7 ft	
FR HD	5 x 17	79,9 m	262.1 ft	9,3 t	10.21 ton	5,2 m	16.9 ft	n.a. m	n.a. ft	
FR HD	5 x 19,5	92,4 m	303.2 ft	10,5 t	11.54 ton	2,4 m	7.9 ft	n.a. m	n.a. ft	

* Rotary head derated

Drilling Diameters	CYLINDER		WINCH	
Uncased	2000 mm	78.8 in	1600 mm	63 in
Cased	1800 mm	70.9 in	1600 mm	63 in

SR-80 EVO Hydraulic Rotary Rig

CFA APPLICATIONS 4° line pull

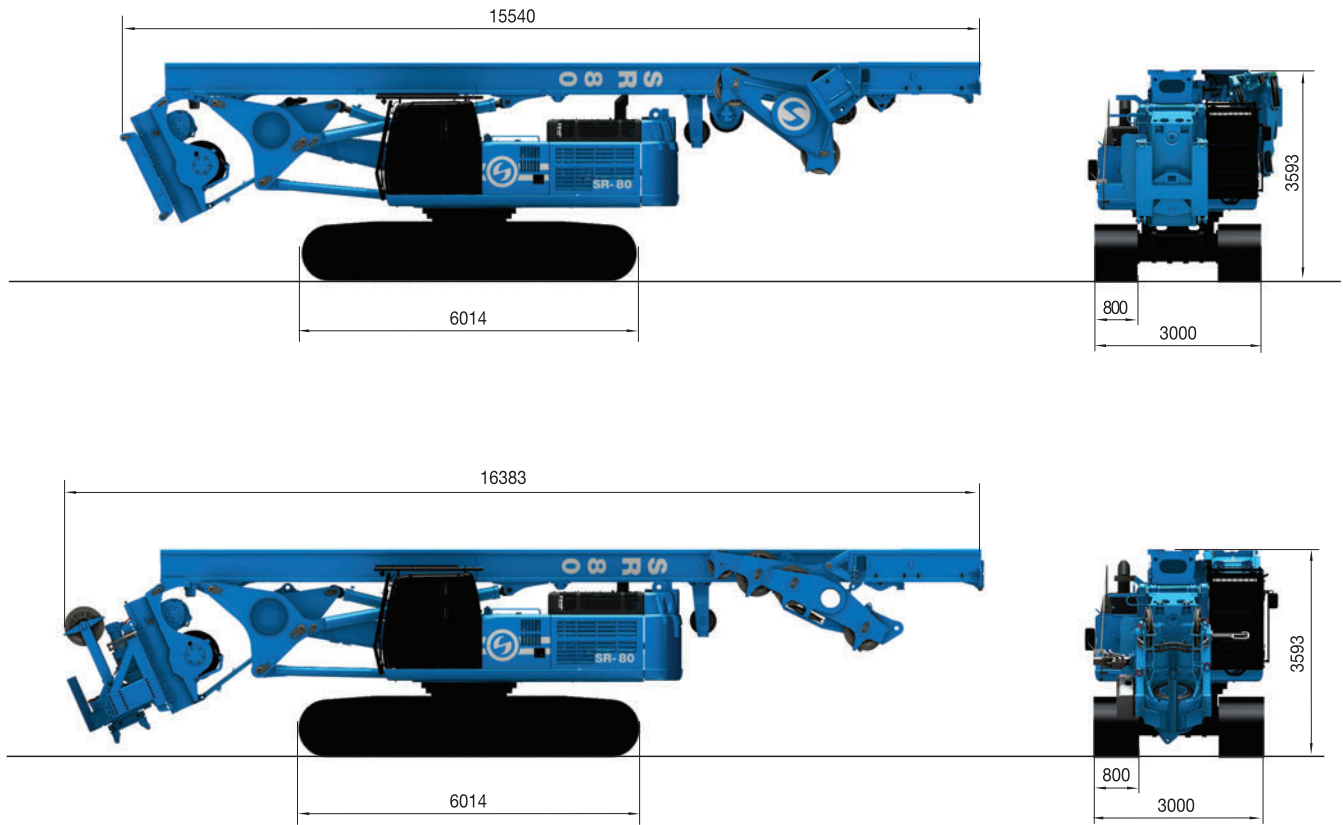


CFA - Continuous Flight Auger - 4° linepull

Operating weight (w/o auger)	79900 kg	176149 lb
Max pile diameter	1200 mm	47 in
Maximum pile depth (c/w 6 m auger extension; w/o auger cleaner)	23,7 m	78 ft
Maximum pile depth (c/w 6 m auger extension and auger cleaner)	22,2 m	73 ft
Extraction force	800 kN	179844 lbf
Crowd force on auger (opt.)	90 kN	20233 lbf

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TRANSPORT, DIMENSIONS AND WEIGHTS



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

Technical data sheet SR80-004 03/2016

Transport configuration		
Transport width	3000 mm	118 in
Transport height	3593 mm	142 in
Transport length - LDP CCS/WCS - w/o rotary	17140 / 15540 mm	674 / 612 in
CCS Version - Transport weight std - min	72800 / 60400 kg	160496 / 133159 lb
WCS Version - Transport weight std - min	72900 / 60500 kg	160717 / 133379 lb

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