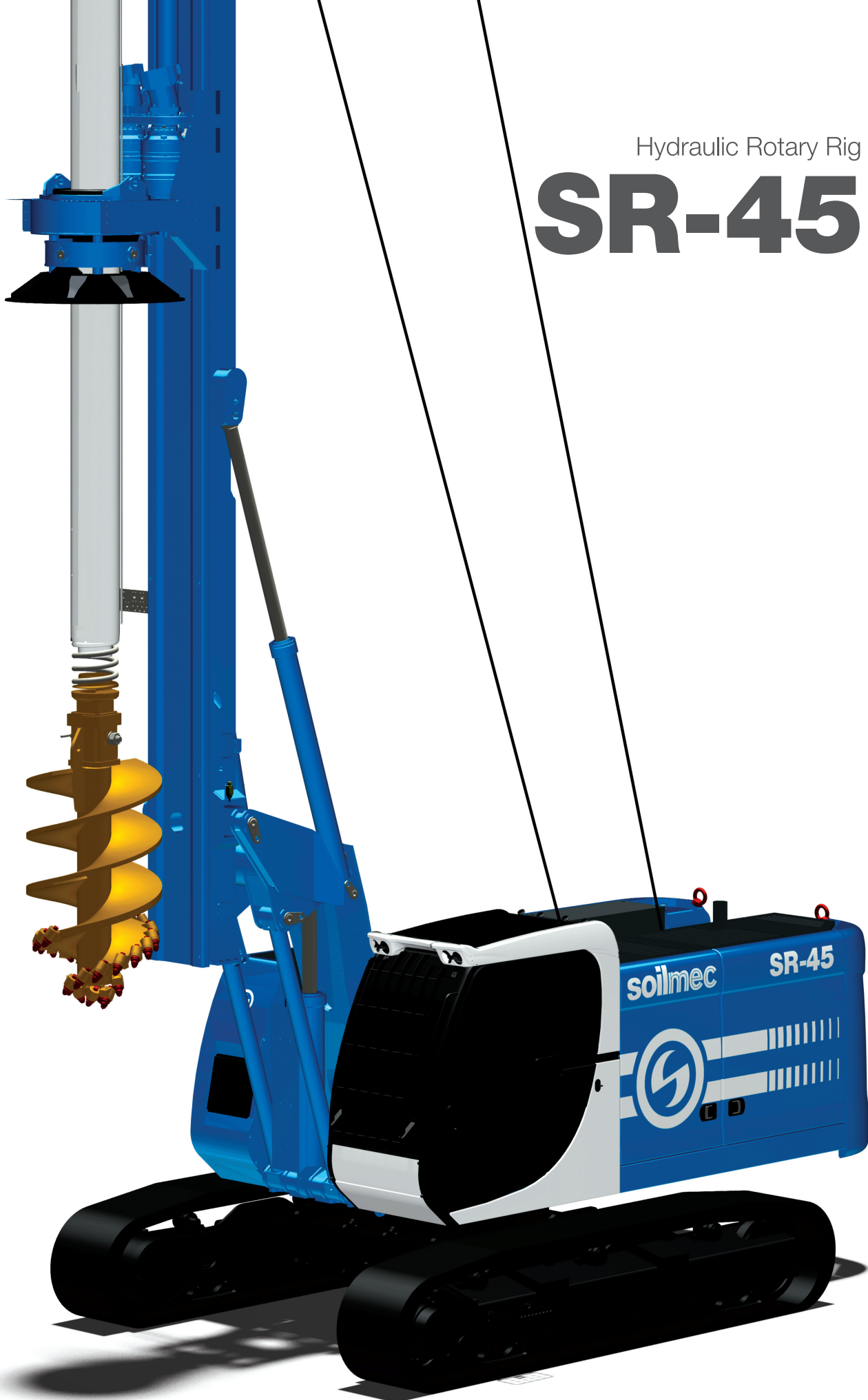


Hydraulic Rotary Rig

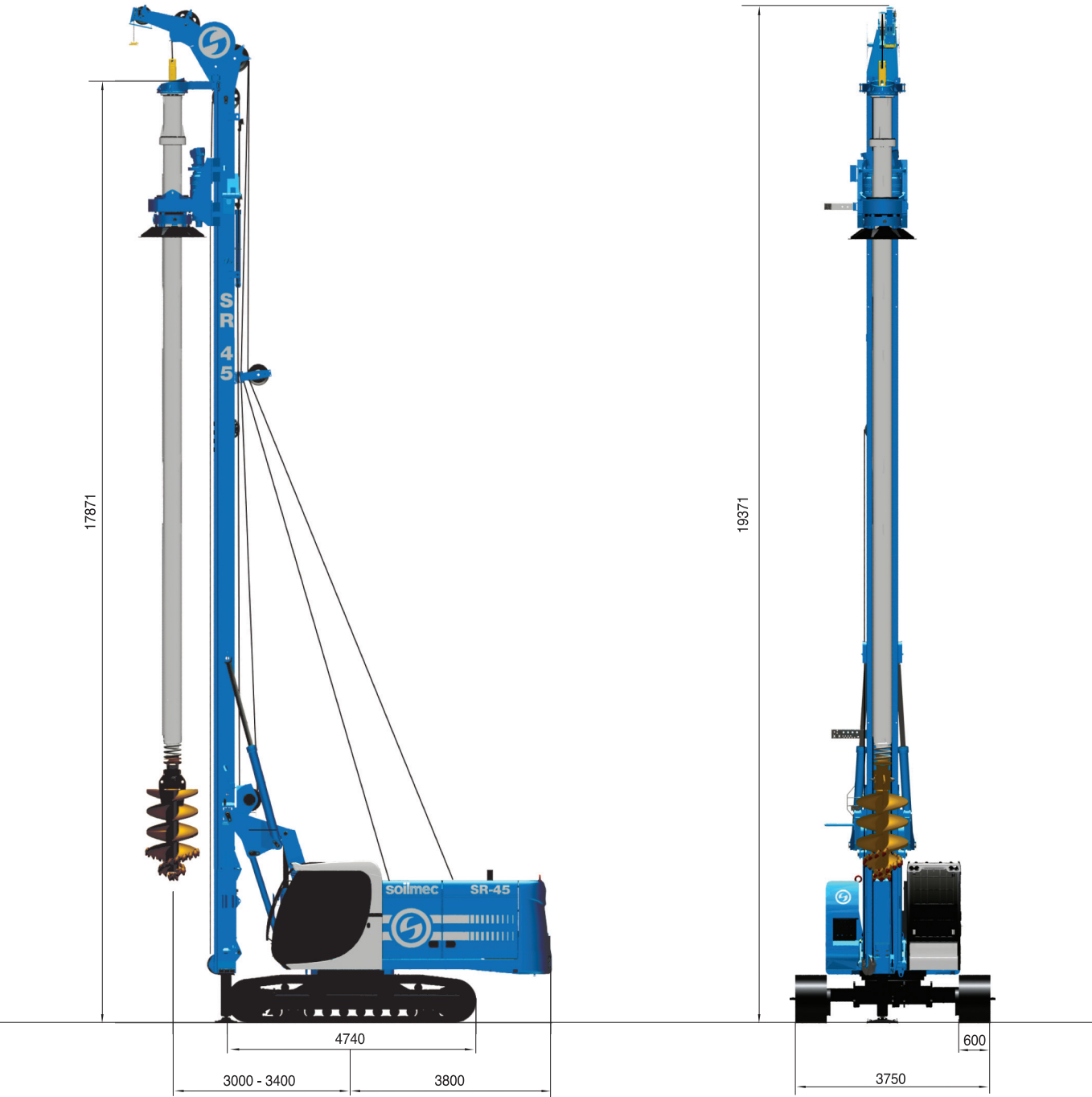
SR-45



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Drilling and Foundation Equipment

SR-45 Hydraulic Rotary Rig

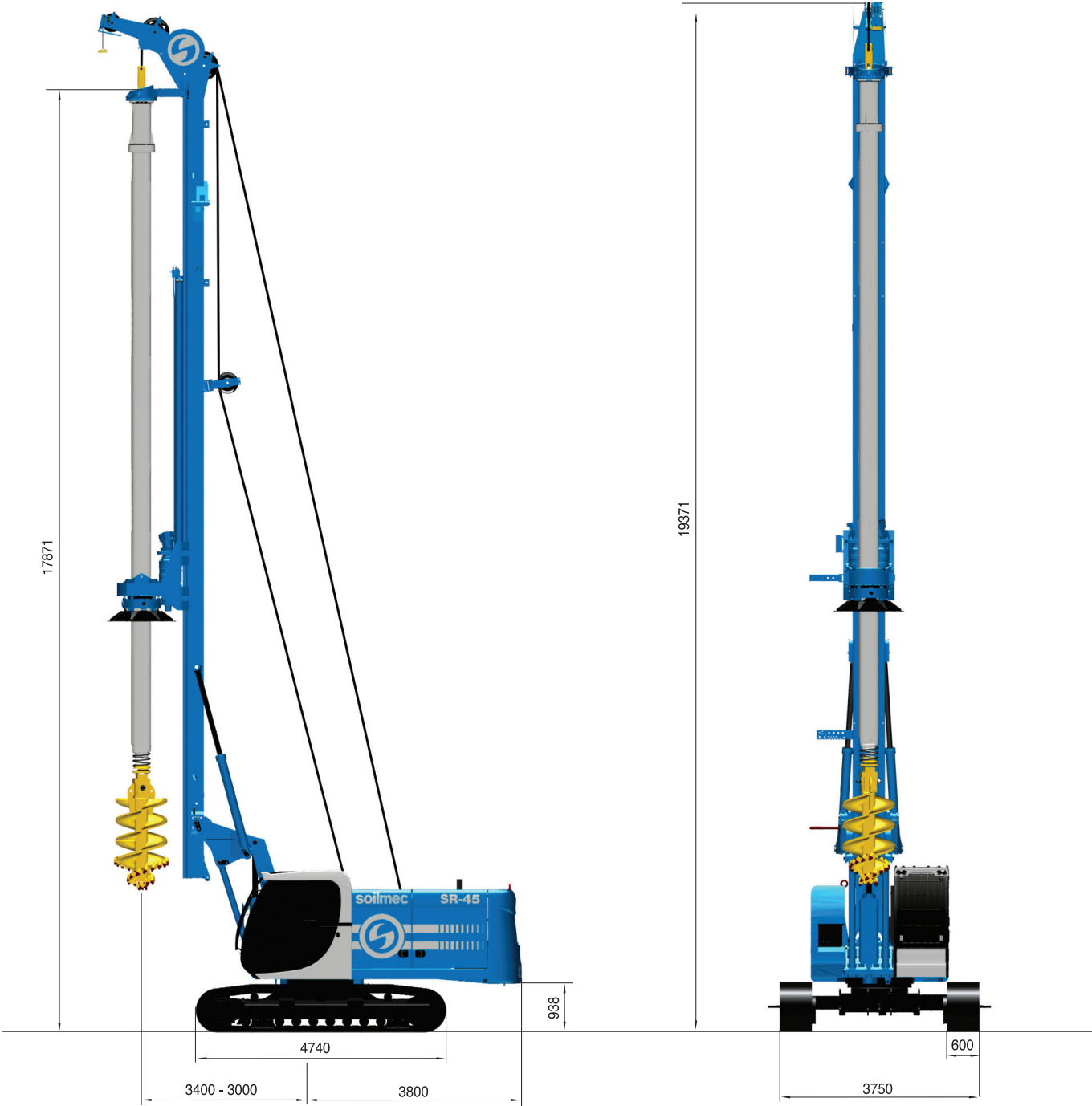
LDP APPLICATIONS



LDP - Large Diameter Piles - WCS version		
Operating weight c/w 4x9 kelly bar	42000 kg	92593 lb
Max pile diameter (along mast)	1300 mm	51.18 in
Max pile diameter w/o lower mast section, tool below mast	2000 mm	78.74 in
Max pile depth-friction kelly	63- 65,5* m	207- 215* ft
Max pile depth-locking kelly	49- 51,8* m	160-170* ft
* c/w non self-mounting 4x14 kelly bar		

SR-45 Hydraulic Rotary Rig

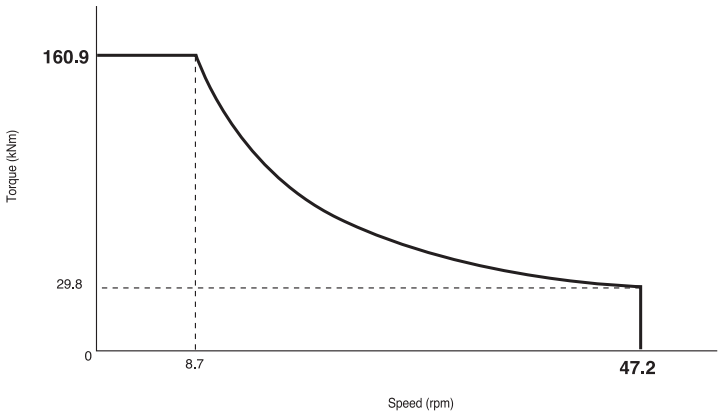
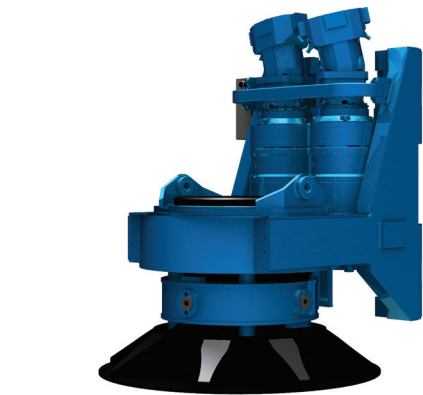
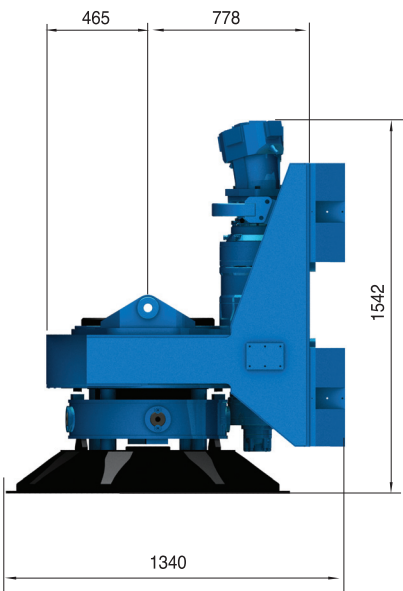
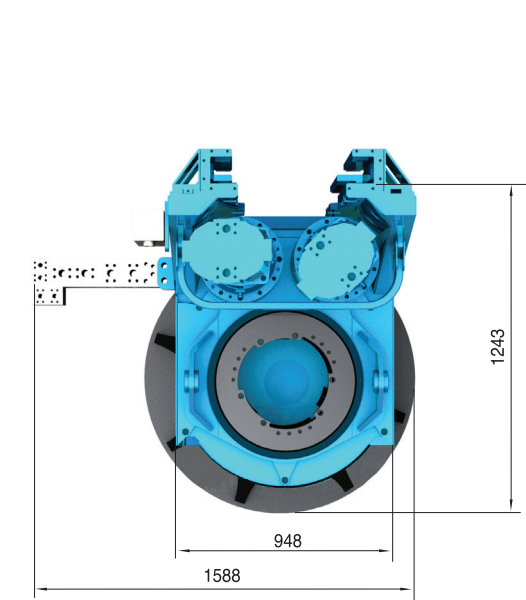
LDP APPLICATIONS



LDP - Large Diameter Piles - CCS version		
Operating weight c/w 4x9 kelly bar	40500 kg	89286 lb
Max pile diameter (along mast)	1500 mm	59.06 in
Max pile diameter tool below mast	2000 mm	78.74 in
Max pile depth-friction kelly (5x - 6x elements)	58,5 - 65* m	192 - 213* ft
Max pile depth-locking kelly	47,5 - 50,5* m	156 - 166* ft
* c/w non self-mounting 4x14 kelly bar		

SR-45 Hydraulic Rotary Rig

ROTARY TABLE



Rotary drive	Single gear version	Single gear version
- Max torque (theoretical-restricted-intermittent)	185 kNm	136447 lbf*ft
- Rated torque (theoretical)	161 kNm	118746 lbf*ft
- Speed of rotation (max)	47 rpm	47 rpm
- Spin-off speed	146 rpm	146 rpm
- Weight c/w cradle	2715 kg	5985 lb

SR-45 Hydraulic Rotary Rig

TECHNICAL DATA SHEET

CCS - Crowd system		
- Crowd force pull (down/up)	Cylinder140 / 207 kN	Cylinder31500 / 46500 lbf
- Stroke	5100 mm	201 in
- Speed (down/up)	17,4 m/min	57 ft/min
- Fast speed (down/up)	18,8 m/min	62 ft/min
WCS - Crowd system		
- Crowd force pull (down/up)	Winch240 / 240 kN	Winch54000 / 54000 lbf
- Stroke	14500 mm	740 in
- Speed (down/up)	28 m/min	92 ft/min
- Fast speed (down/up)	28 m/min	92 ft/min
Main winch SW320	controlled descent	controlled descent
- Line pull (1st layer)	165 kN	37100 lbf
- Rope diameter	24 mm	1.26 in/482.28 ft
- Line speed (max.)	78 m/min	256 ft/min
Auxiliary winch SW130	controlled descent	controlled descent
- Line pull (1st layer)	65 kN	29225 lbf
- Rope diameter	18 mm	0.87 in
- Line speed (max.)	81 m/min	230 ft/min
Engine	CUMMINS QSB 6.7	CUMMINS QSB 6.7
- Rated output ISO 3046-I	201 kW @ 2000 rpm	269 HP @ 2000 rpm
- Engine conforms to Exhaust emission Standard	EU stage III B, US EPA Tier 4i	EU stage III B, US EPA Tier 4i
- Diesel tank capacity	380 l	100 US gal
Hydraulic system		
- Hydraulic pressure set	30,5 Mpa	4420 psi
- Flow rates (main circuits)	2x 214 l/min	2x 57 US gal/min
- Hydraulic oil tank capacity	450 l	119 US gal
Undercarriage	variable gauge, telescoping side frames	variable gauge, telescoping sides frames
- Overall width of crawlers retracted/extended	2550 / 3750 mm	100 / 147 in
- Width of triple grouser track shoes	600 mm	24 in
- Overall length of crawlers	4740 mm	187 in
- Traction force effective/nominal	386 kN	68800 lbf
- Travel speed	2 km/h	1.2 mph
Mast inclination (Backward/ Forward/Lateral)	5/4/3°	5/4/3°

STANDARD EQUIPMENT

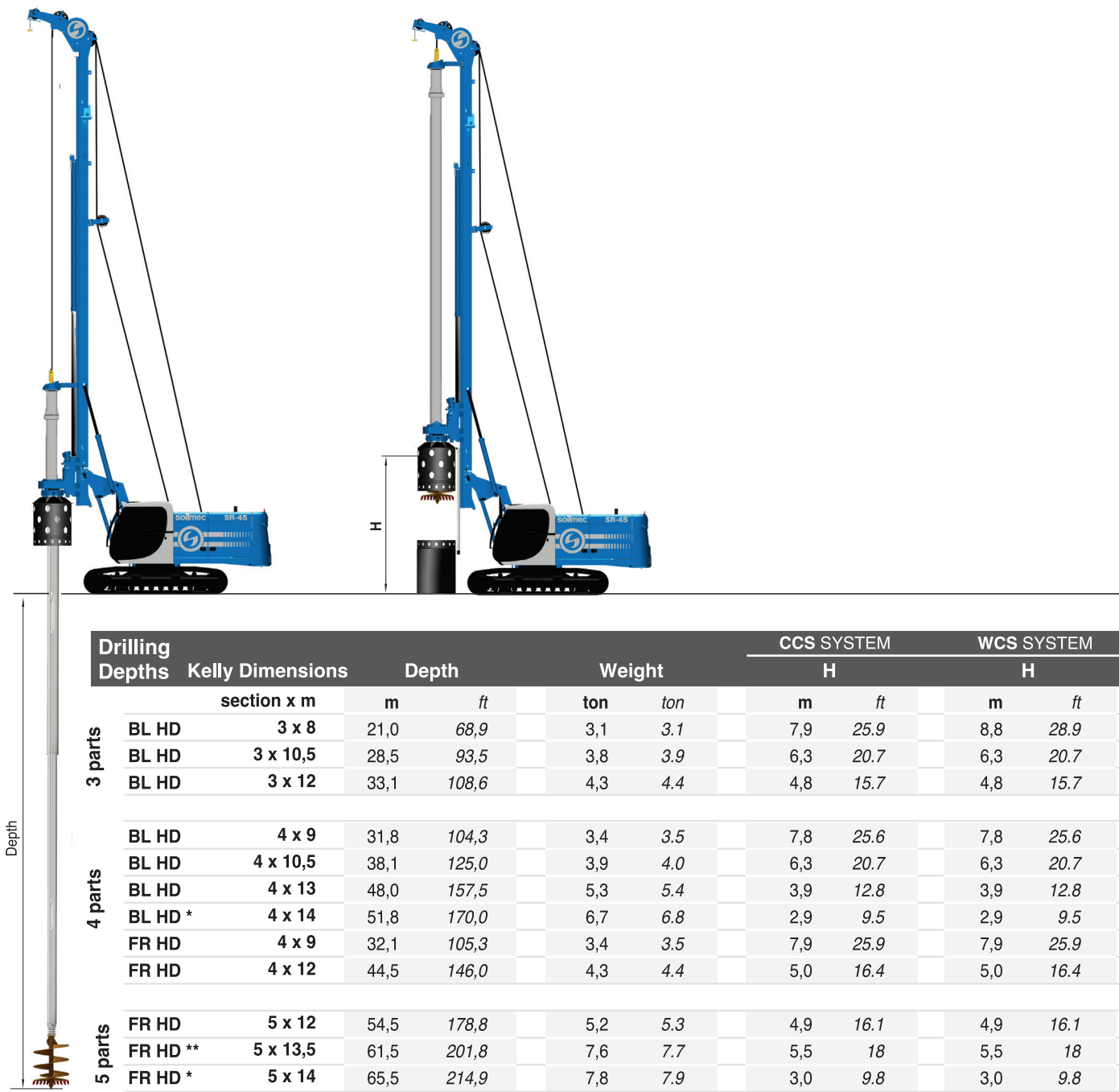
• Main and auxiliary winch controlled descent type with special grooving • Hoist limit switch on main rope • Swivel for main rope • Service rope parking point • DMS system electronic monitoring and operator interface system • Mast inclination measurement on X/Y axes (digital/analog display)	• Automatic vertical mast alignment • Depth measuring device on main winch • Speed measuring device on rotary • Crowd pressure setting • Oscillator attachment brackets • Central lubrication system • Emergency mode of operation for engine • Engine diagnostic system • Diagnostic panel for hydraulic functions	• Transport securing lugs on crawler units • On board lighting set • On board tool set • Electric refuelling pump • High comfort operator's cab • Protective roof grate (FOPS compliant) • Air conditioning system • Radio and CD player • Videocamera set
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OPTIONAL EQUIPMENT

• Biodegradable oils • Pressurized air conditioning system • Freefall auxiliary winch	• Swivel for auxiliary rope • Double roller auger cleaner • VTH-1 vibrator	• Main winch load cell • Additional counterweight for mast lattice boom extension application
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SR-45 Hydraulic Rotary Rig

KELLY DRILLING SYSTEM

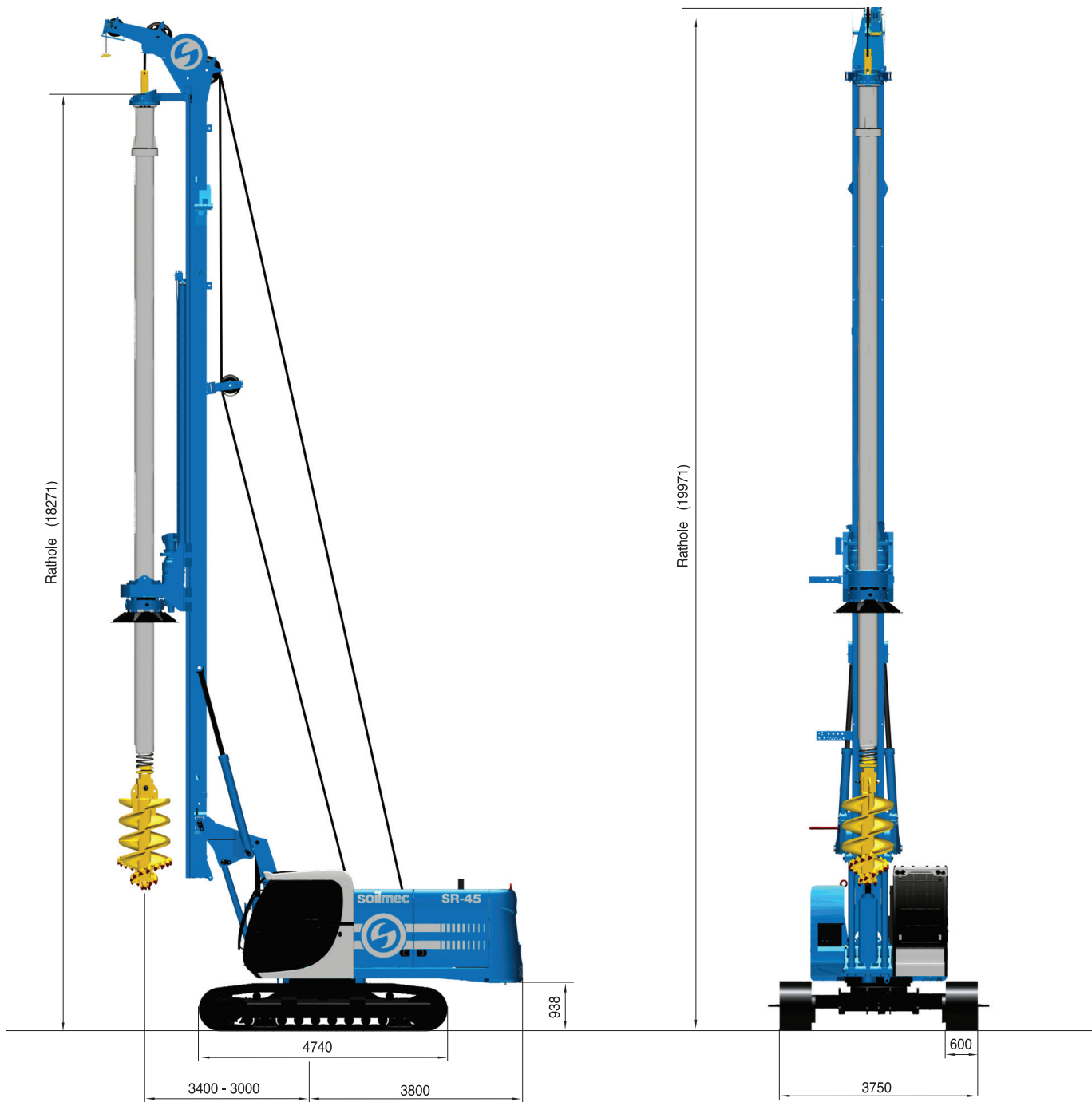


* Non self-mountable kelly bar

** Rathole dedicated kelly bar

SR-45 Hydraulic Rotary Rig

LDP APPLICATIONS - Ratholders version



LDP_Large Diameter Piles - CCS Ratholders version		
Operating weight c/w 5x13,5 kelly bar	42000 kg	92593 lb
Max pile diameter (along mast)	1300 mm	51.18 in
Max pile diameter w/o lower mast section, tool below mast	2000 mm	78.74 in
Max pile depth - locking kelly (reduct torque)	61,5 m	201.77 ft

SR-45 Hydraulic Rotary Rig

CFA APPLICATIONS Quick conversion kit



CFA - Continuous Flight Auger - Quick conversion kit		
Max pile diameter	900 mm	35.43 in
Max pile depth c/w 7 m auger extension	21 m	68.90 ft
Max pile depth with auger cleaner c/w 7 m auger extension	20 m	65.62 ft
Extraction force	394 kN	88571 lbf
Crowd force on auger	138 kN	31022 lbf

SR-45 Hydraulic Rotary Rig

CFA APPLICATIONS 4° line pull



CFA - Continuous Flight Auger - 4° linepull		
Max pile diameter	900 mm	35.43 in
Max pile depth c/w 6 m auger extension	21,5 m	70.54 ft
Max pile depth with auger cleaner c/w 6 m auger extension	20,5 m	67.26 ft
Extraction force	480 kN	107904 lbf
Crowd force on auger (opt.)	100 kN	22480 lbf

SR-45 Hydraulic Rotary Rig

DP APPLICATIONS Quick conversion kit



DP - Displacement Piles - Quick conversion kit		
Max DP pile diameter	350 mm	14 in
Max TCT pile diameter	350 mm	14 in
Max pile depth c/w 7 m auger extension	19,7 m	64.63 ft
Mast lattice boom extension length	12 m	39.37 ft
Max depth c/w lattice boom mast extension	23 m	74.47 ft

SR-45 Hydraulic Rotary Rig

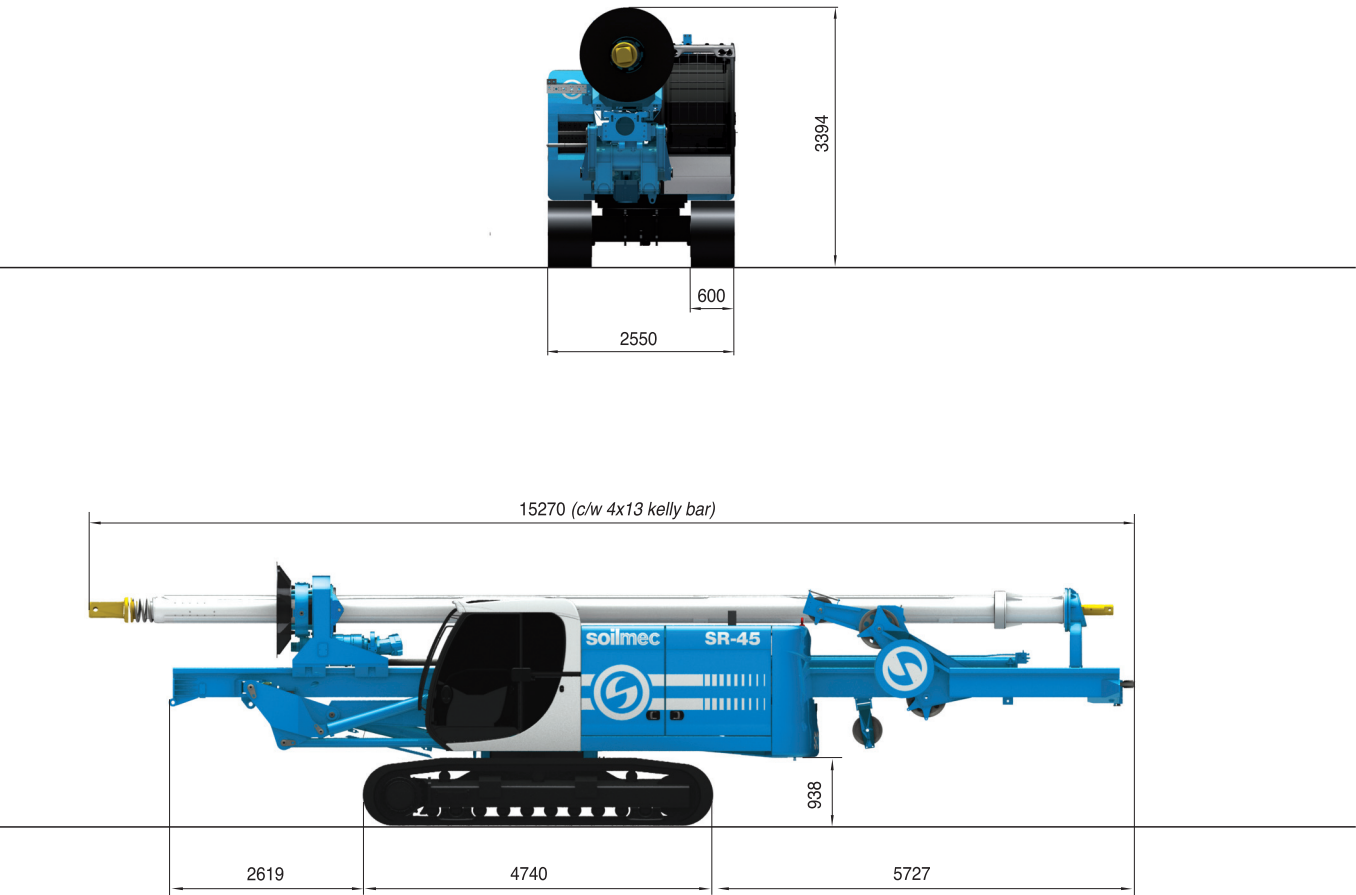
TJ APPLICATIONS Quick conversion kit



TJ - Turbojet® - Quick conversion kit		
Max treatment diameter	900 mm	35.43 in
Max pile depth c/w 7 m auger extension	20,4 m	66.93 ft
Mast lattice boom extension length	12 m	39.37 ft
Max depth c/w lattice boom mast extension	23 m	76.77 ft

SR-45 Hydraulic Rotary Rig

TRANSPORT, DIMENSIONS AND WEIGHTS



Transport configuration		
Transport width	2550 mm	100 in
Transport height	3400 mm	134 in
Transport length (w/o mast)	13050 mm	514 in
CCS Version - Transport weight c/w 4x9 kelly bar	40500 kg	89286 lb
WCS Version - Transport weight c/w 4x9 kelly bar	42000 kg	92593 lb

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