

Hydraulic Rotary Rig

SR-30 ADV



soilmec 
Drilling and Foundation Equipment

SR-30 ADV Hydraulic Rotary Rig

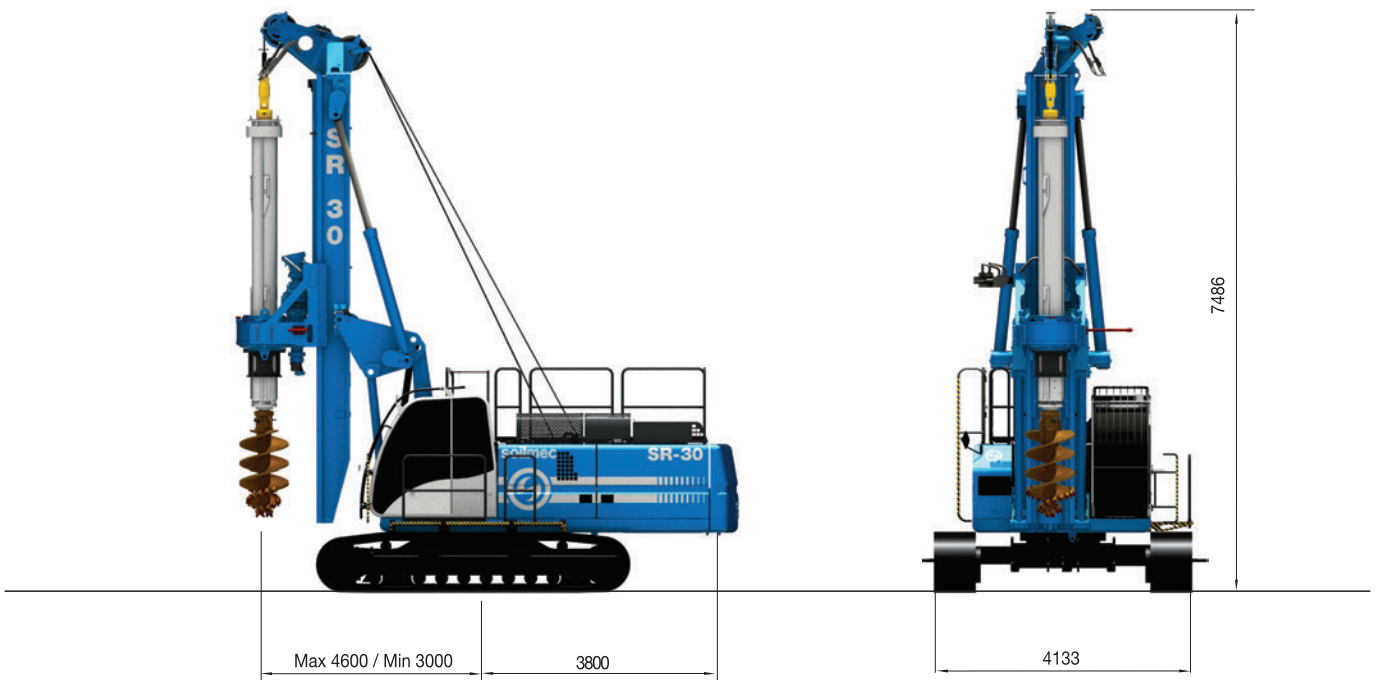
LDP APPLICATIONS - Crowd System with Cylinder



LDP - Large Diameter Piles - CCS version		
Operating weight w/o kelly	33600 kg	74075 lb
Max pile diameter	1500 mm	59.06 in
Max pile depth-friction kelly	48,3 m	159 ft
Max pile depth-locking kelly	38,7 m	127 ft
Max pile depth with mast extension ratholer kit	60 m	197 ft

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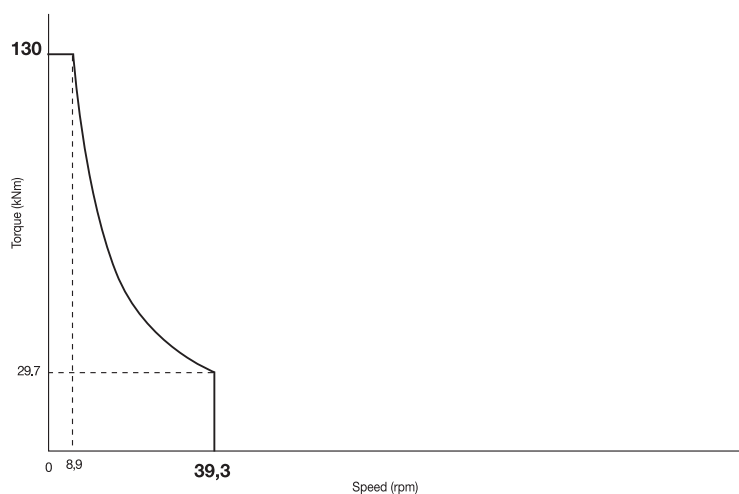
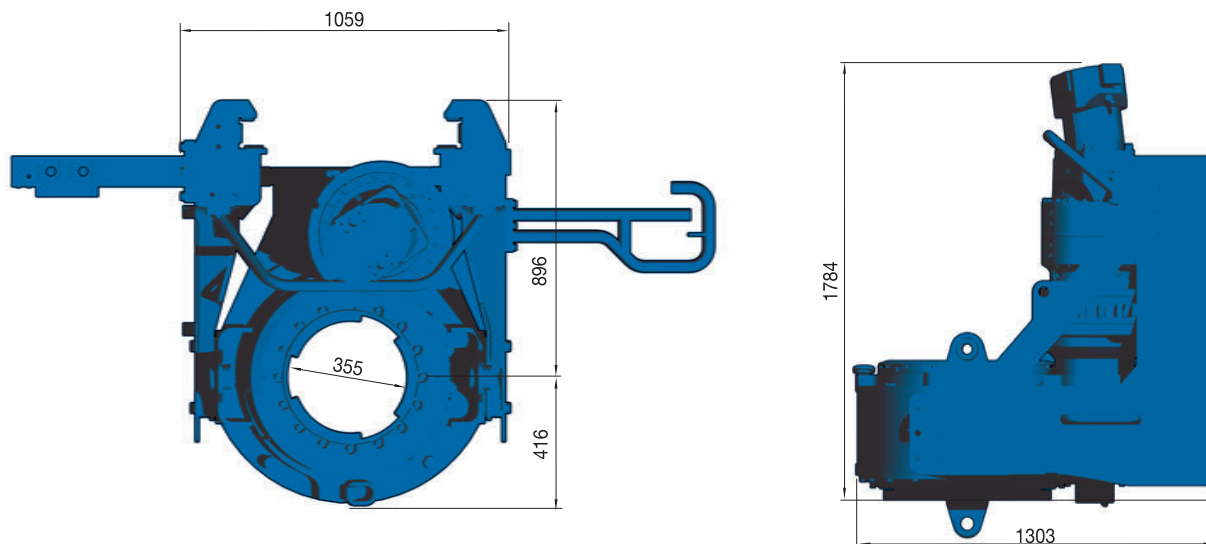
LHR Low Head Room APPLICATIONS



LHR_Low Head Room	Standard Cathead		Special Cathead	
Operating weight w/o kelly	32500 kg	71650 lb	31000 kg	68343 lb
Operating height	10,9 ÷ 12,2 m	36 ÷ 40 ft	7,5 ÷ 8,8 m	25 ÷ 29 ft
Max pile diameter	1500 (3000) mm	59 (118) in	1500 (3000) mm	59 (118) in
Max pile depth	24,8 m	81 ft	17,7 m	58 ft
Crowd system force	101 / 124 kN	22706 / 27876 lbf	101 / 124 kN	22706 / 27876 lbf

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ROTARY HEAD



Rotary drive

Max torque (intermittent)	130 kNm	95881 lbf*ft
Rated torque	108 kNm	79655 lbf*ft
Speed of rotation (max)	39 rpm	39 rpm
Spin-off speed	143 rpm	143 rpm

SR-30 EVO Hydraulic Rotary Rig

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

- Catwalks 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

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TECHNICAL DATA SHEET

CCS - Cylinder Crowd System		
- Crowd force pull (down/up)	101 / 124 kN	22705 / 27876 lbf
- Stroke	3500 mm	138 in
- Speed up	7,4 m/min	24 ft/min
- Fast speed down	5,7 m/min	19 ft/min
Engine		
	Cummins QSB6.7	Cummins QSB6.7
- Rated output	168 kW @ 2200 rpm	225 HP @ 2200 rpm
- Engine conforms to Exhaust emission Standard	EU Stage IV - US EPA Tier 4f	EU Stage IV - US EPA Tier 4f
- Diesel tank capacity	350 l	92 US gal
Main winch		
	controlled descend	controlled descend
- Line pull (1st layer)	135 kN	30349 lbf
- Rope diameter	22 mm	1 in
- Line speed (max.)	78,5 m/min	258 ft/min
Auxiliary winch		
	controlled descend	controlled descend
- Line pull (1st layer)	65 kN	14612 lbf
- Rope diameter	18 mm	1 in
- Line speed (max.)	67 m/min	190 ft/min
Hydraulic system		
- Flow rates (main circuits)	2 x 176 l/min	2 x 46.5 US gal/min
- Flow rates (auxiliary circuits)	97 + 37 l/min	26 + 8 US gal/min
- Hydraulic oil tank capacity	380 l	100 US gal
Undercarriage		
	variable gauge, telescoping sides	variable gauge, telescoping sides
- Overall width of crawlers retracted	2550 mm	100 in
- Overall width of crawlers extended	3700 mm	146 in
- Width of triple grouser track shoes	600 mm	24 in
- Overall length of crawlers	4510 mm	178 in
- Traction force	290 kN	150172.4 lbf
- Travel speed	2,2 km/h	1.4 mph
Mast inclination (Backward/ Forward/Lateral)	10° / 4° / 3°	10° / 4° / 3°

STANDARD EQUIPMENT

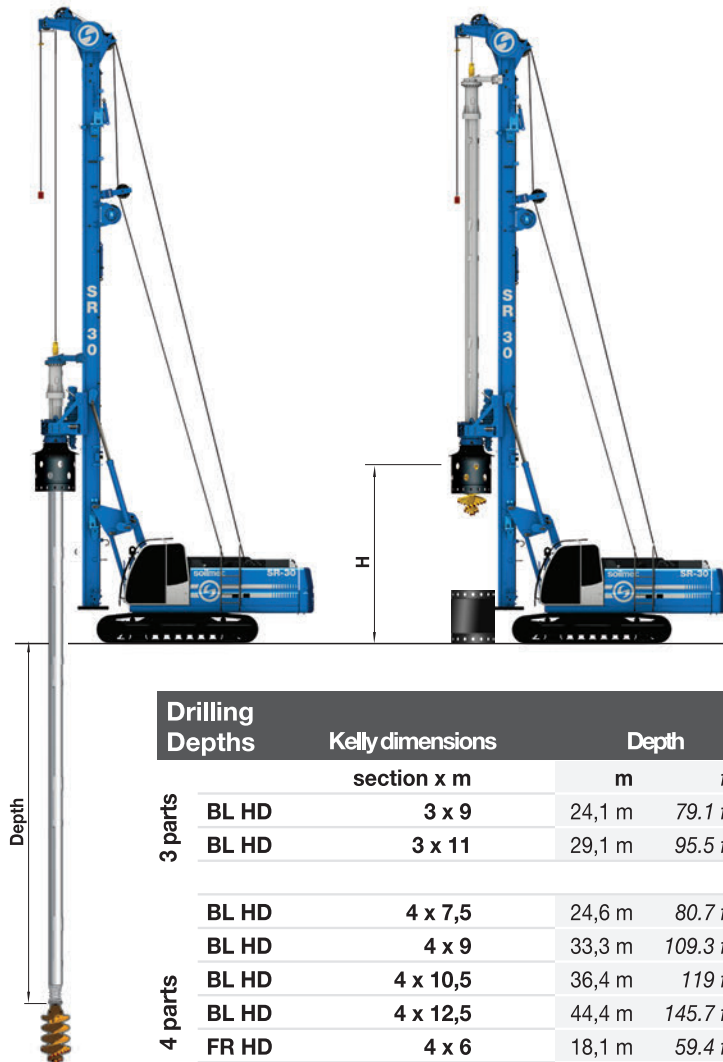
- Main and auxiliary winch controlled descent type with special grooving
- Hoist limit switch on main and service rope
- Swivel for main rope
- Service rope parking point
- GSM/GPRS/GPS modem kit
- DMS system electronic monitoring and visualization system
- Mast inclination measurement on X/Y axes (digital/analog display)
- Automatic vertical mast alignment
- Depth measuring device
- Rotary speed measuring device
- Variable gauge undercarriage
- Wider triple grouser track shoes
- Transport securing lugs on crawler units
- 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
- High comfortable Cab
- Protective roof grate (FOPS compliant)
- Adjustable console with sliding support for DMS 12" touch screen
- Engine and Diesel particulate diagnostic panel
- Ergonomic seat
- Heat and Air Conditioning control unit
- Courtesy lights in the cab
- Radio and CD player

OPTIONAL EQUIPMENT

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

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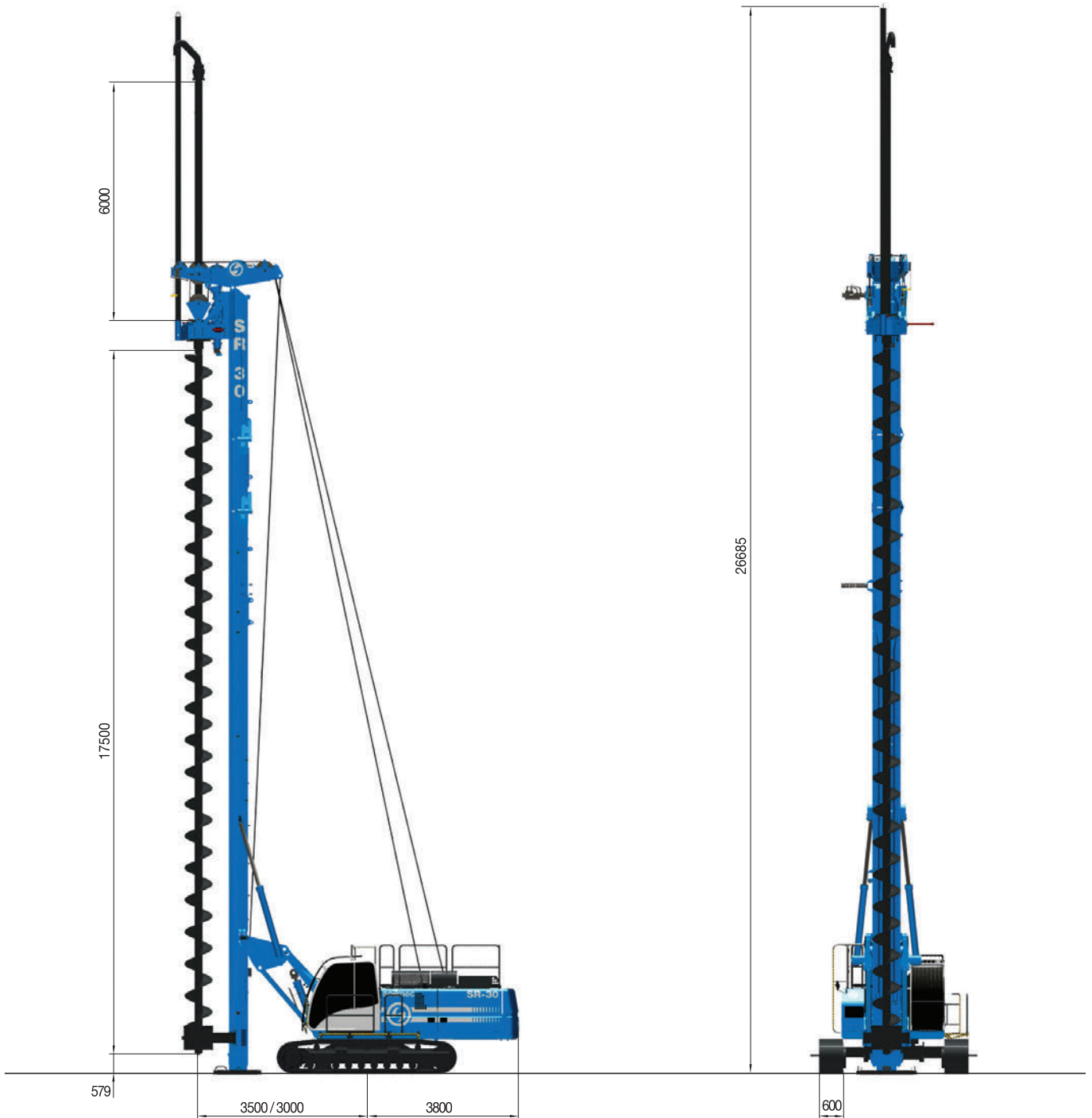
KELLY DRILLING SYSTEM



Drilling Depths	Kelly dimensions section x m	Depth		Weight		CCS SYSTEM	
		m	ft	ton	ton (US)	H	
						m	ft
3 parts	BL HD 3 x 9	24,1 m	79.1 ft	3,1 t	3.1 ton	6,4 m	21.0 ft
	BL HD 3 x 11	29,1 m	95.5 ft	3,5 t	3.6 ton	4,7 m	15.4 ft
4 parts	BL HD 4 x 7,5	24,6 m	80.7 ft	2,9 t	2.9 ton	6,4 m	21.0 ft
	BL HD 4 x 9	33,3 m	109.3 ft	3,3 t	3.4 ton	6,4 m	21.0 ft
	BL HD 4 x 10,5	36,4 m	119 ft	3,9 t	3.9 ton	4,9 m	16.0 ft
	BL HD 4 x 12,5	44,4 m	145.7 ft	4,4 t	4.5 ton	3,1 m	10.2 ft
	FR HD 4 x 6	18,1 m	59.4 ft	2,4 t	2.4 ton	6,4 m	21.0 ft
	FR HD 4 x 7,5	24,6 m	80.7 ft	2,9 t	2.9 ton	6,4 m	21.0 ft
	FR HD 4 x 9	31,3 m	102.7 ft	3,3 t	3.4 ton	6,4 m	21.0 ft
	FR HD 4 x 12,5	43,8 m	143.7 ft	4,3 t	4.4 ton	3,5 m	11.5 ft
5 parts	FR HD 5 x 9	39,1 m	128.3 ft	4,1 t	4.2 ton	6,4 m	21.0 ft
	FR HD 5 x 10	44,4 m	145.7 ft	4,4 t	4.5 ton	5,4 m	17.7 ft
	FR HD 5 x 11	47,5 m	155.8 ft	4,8 t	4.9 ton	4,8 m	15.7 ft

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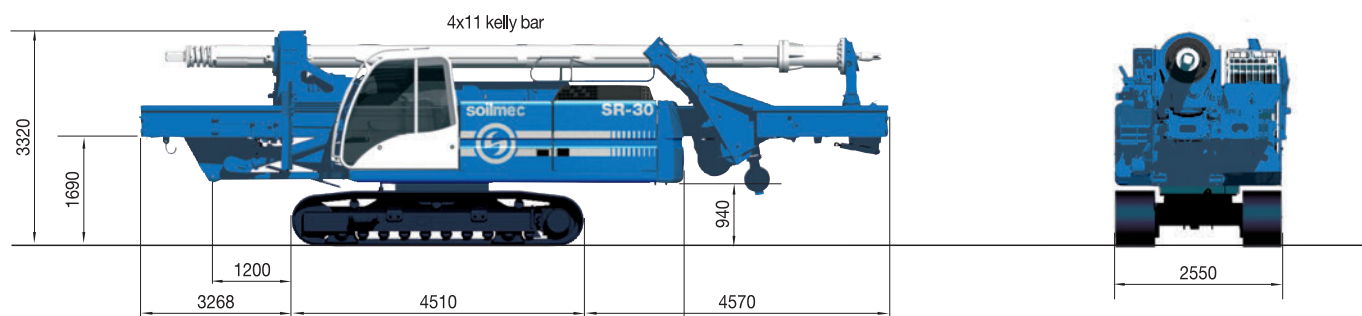
CFA APPLICATIONS



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	100 kN	22481 lbf	100 kN	22481 lbf

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TRANSPORT, DIMENSIONS AND WEIGHTS



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

Technical data sheet SR30-004 03/2016

Transport configuration		
Width	2550 mm	100 in
Length	12430 mm	489 in
Height	3320 mm	131 in
Weight c/w 4x9 m kelly bar	37000 kg	81571 lb

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