

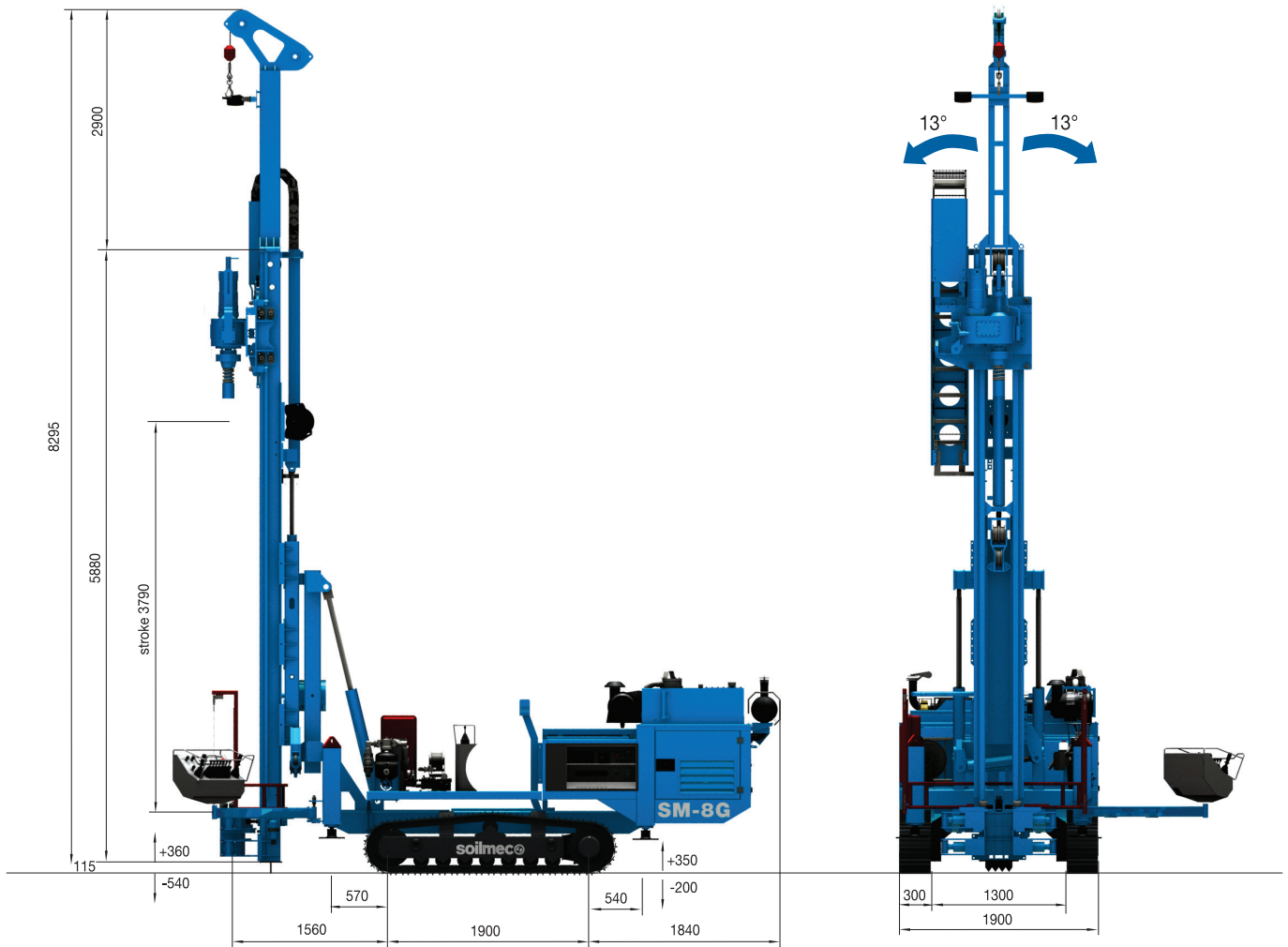
Hydraulic Microdrilling Rig

SM-8G



soilmec 
Drilling and Foundation Equipment

SM-8G APPLICATIONS



Hoist & Feed system		Cylinder	
- Feed stroke	3750 mm	149.6 in	
- Rod length type (c/w one rotary head)	3 m	9.8 ft	
- Max hoist pull/feed force	73 / 100 kN	16411 / 22481 lbf	

Rotary head range		HR9G	HR9G
- Gear box type	6 gears	6 gears	
- Max torque	820 daNm	6048 lb*ft	
- Max drilling speed	926 rpm	926 rpm	
- Inner passage	90 mm	3.5 in	

SM-8G TECHNICAL DATA SHEET

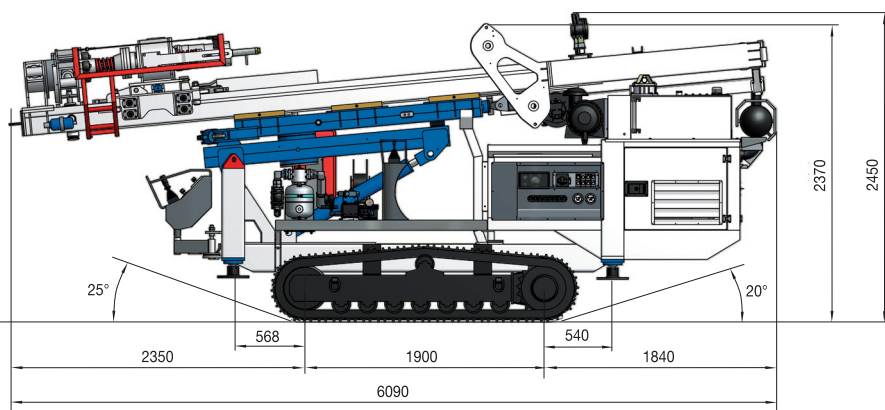
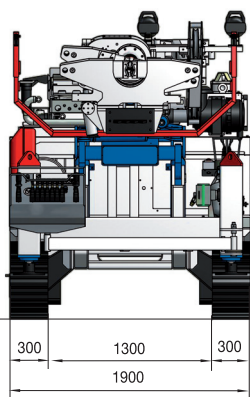
Operating weight (approx.)	8900 kg	19621 lb
Undercarriage		
- Track shoe width	300 mm	11.8 in
- Wheel base (centre idler to centre sprocket)	1900 mm	74.8 in
- Overall length	2424 mm	95.4 in
- Overall width (not extendable crawler)	1900 mm	74.8 in
- Travelling speed	1,3 km/h	0.81 mph
- Max climbing capacity (gradeability)	66 % (30°)	66 % (30°)
- Average ground pressure	0,070 MPa	11.3 psi
- Ground stabilizers	n° 2 fixed with inclined arm on front + n° 2 fixed on rear	n° 2 fixed with inclined arm on front + n° 2 fixed on rear
Power pack		
- Diesel Engine make and model	DEUTZ TCD 2012 L04	DEUTZ TCD 2012 L04
- Emission certification	EU 97/68 - 2004/06 Step IIIA	EU 97/68 - 2004/06 Step IIIA
- Diesel Engine power rating	85 kW @ 2400 rpm	114 HP @ 2400 rpm
- Fuel tank capacity	140 l	37 US gal
- Sound power level and sound pressure level	LwA 105 - LpA 74 dB(A)	LwA 105 - LpA 74 dB(A)
Hydraulic system		
- Main pumps: variable axial pumps	150 l/min	39.6 US gal/min
- Set pressure main pumps	28 MPa	4061 psi
- Auxiliary pumps: gear pumps	86 + 44+ 28 + 22 l/min	22.7 + 11.6 + 7.4 + 5.8 US gal/min
- Hydraulic oil tank capacity	270 l	71.3 US gal
Clamp & hydraulic joint breaker		
- Nominal size	60 - 260 mm	2.4 - 10.2 in
- Maximum clamping force	125 kN	28101 lbf
- Maximum breaking torque	4100 daNm	30240 lbf*ft
Service winch		
- Type	controlled descent	controlled descent
- 1st layer line pull	20 kN	4496 lbf
- 1st layer nominal rope speed	46 m/min	151 ft/min
- Rope diameter	10 mm	0.39 in
Jet Grouting Version		
- Rod diameter	90 mm	12 m
- Max treatment depth in single passage	12 m	472.4 in
Mast side tilting by cylinder on mast		
	3000 mm	118.1 in
	13°	13°

STANDARD EQUIPMENT

- Modular mast for 3800 mm stroke
- Fixed kinematic mechanism c/w side tilting
- Clamp and breaker 60-260 mm
- Prearrangement for mud pump
- Inline DTH lubricator
- Hydraulic control board for drilling operations
- Hydraulic control board for tramming
- Rotary cradle side shifting
- Service winch
- Triplex pump for foam

OPTIONAL EQUIPMENT

- Wire line winch on board
- Triplex pump for mud and water on board
- SPT device
- Wide range of rotary heads
- Top hammer kit



Transport configuration		
Transport width	1900 mm	75 in
Transport height	2450 mm	96.5 in
Transport length	6090 mm	239.8 in
Transport weight	8900 kg	19621 lb

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