

Hydraulic Microdrilling Rig

SM-8GT

by *Soilmec*



soilmec 
Drilling and Foundation Equipment

SM-8GT APPLICATIONS



Hoist & Feed system	Cylinder	Cylinder
- Feed stroke	4000 mm	157.5 in
- Rod length type (c/w one rotary head)	3 m	9.8 ft
- Maximum hoist pull/feed force	100 / 65 kN	22481 / 14612 lbf
Rotary head range	Double head DR 816	Double head DR 816
- Gear box type	Variable	Variable
- Maximum torque (upper/lower rotary)	816 / 1633 daNm	6019 / 12044 lbf*ft
- Maximum rotation speed (upper/lower)	106 / 53	106 / 53

SM-8GT TECHNICAL DATA SHEET

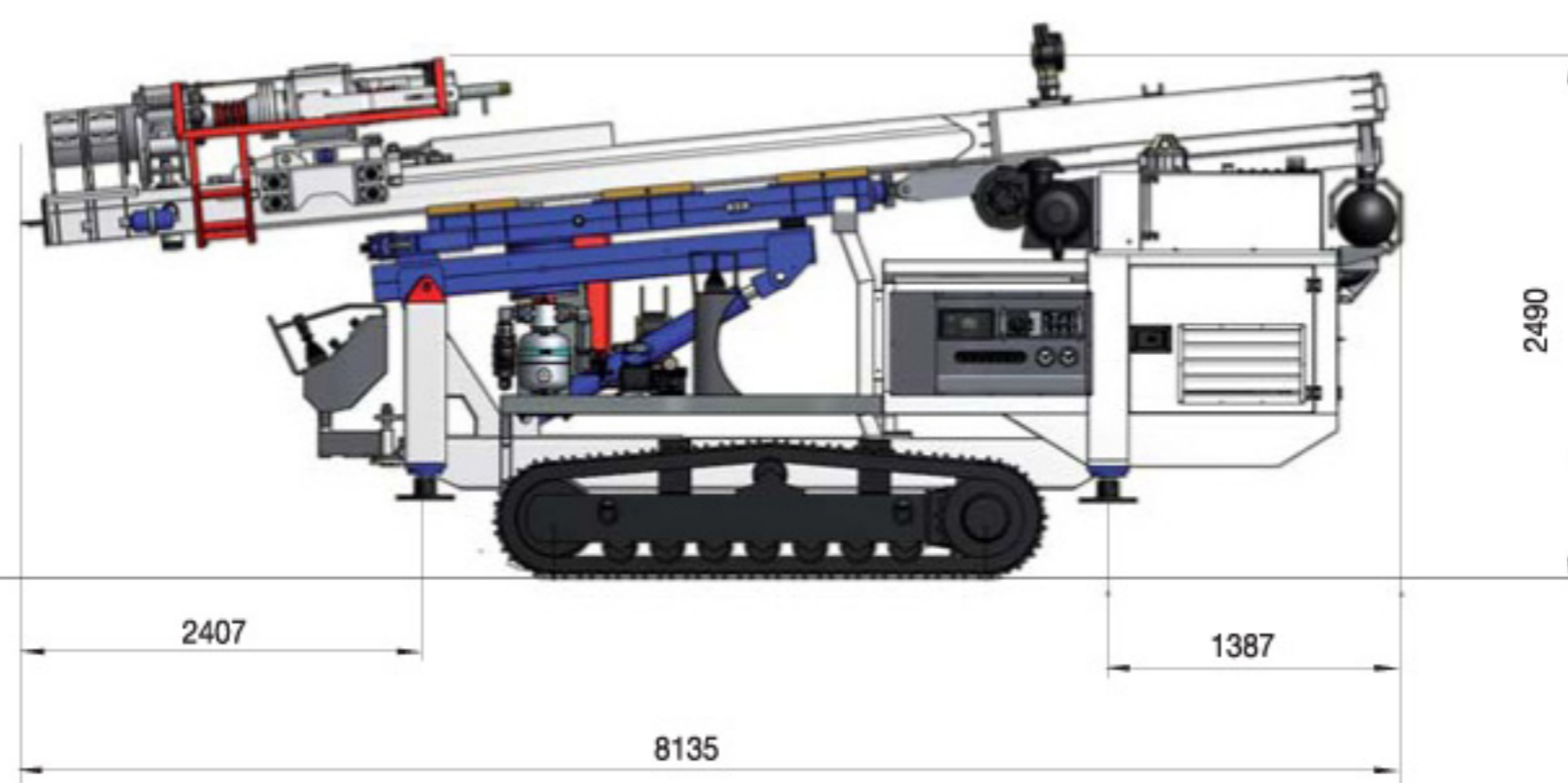
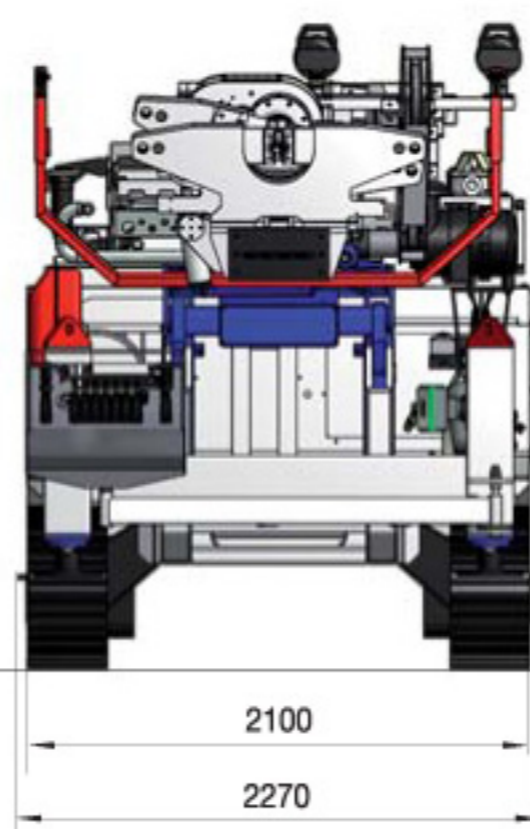
Operating weight (approx.)	8900 kg	19621 lb
Undercarriage		
- Track shoe width	400 mm	15.7 in
- Wheel base (centre idler to centre sprocket)	1913 mm	75.3 in
- Overall length	2420 mm	95.3 in
- Overall width (not extendable crawler)	2100 mm	82.7 in
- Travelling speed	2,50 km/h	1.55 mph
- Average ground pressure	0,057 MPa	8.3 psi
- Ground stabilizers	n° 4 fixed outrigger	n° 4 fixed outrigger
Diesel Engine		
	DEUTZ TCD 2013 L04	DEUTZ TCD 2013 L04
- Emission certification	UE Stage III - EPA nonroad Tier 3	UE Stage III - EPA nonroad Tier 3
- Diesel Engine power rating	116 kW @ nd rpm	155 HP @ nd rpm
- Fuel tank capacity	200 l	53 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	273 l/min	72 US gal/min
- Set pressure main pumps	28 MPa	4061 psi
- Hydraulic oil tank capacity	325 l	86 US gal
Clamp & hydraulic joint breaker		
- Nominal size	60 - 260 mm	2.4 - 10.2 in
- Maximum clamping force	165 kN	37093 lbf
- Maximum breaking torque	3700 daNm	27290 lbf*ft

STANDARD EQUIPMENT

- Fixed kinematic mechanism suitable for geothermal technology
- Sliding mast by cylinder: 1500 mm stroke
- Rotary cradle with out side shifting
- Rods and casing adaptators
- Diverter std for air/mud flushing
- Air/Water swivel
- Additional third clamp for casing
- Two hydraulic clamps with breaker and manual rods guide
- Drilling operation actuated from hydraulic panel assembled on pivotal support arm
- Kinematic mechanism controlled by an hydraulic panel on board
- Cable remote control for tramping
- Air/water system and line lubrication for DTH
- Lighting system with 2 lights fitted on the top of the mast
- Foam pump
- Washing lance c/w hose re-winder

OPTIONAL EQUIPMENT

- Handling magnet system for 2 m rods/casing completed with service winch. Lifting capacity of magnet: 150 kg



Transport configuration		
Length	8135 mm	320.3 in
Width	2270 mm	89.4 in
Height c/w handling magnet system	3096 mm	121.9 in
Weight	9000 kg	19841 lb

This brochure has been edited and distributed by SOILMEC Spa. The present document cancels and override any previous ones. This brochure shall not be distributed, reproduced or exhibited without SOILMEC Spa. authorization in accordance with to SOILMEC web site disclaimer condition.

SOILMEC Spa distributes machinery and structures all over the world, supported by SOILMEC Spa subsidiary companies and dealers. The complete Soilmec network list is available on the web site www.soilmec.it