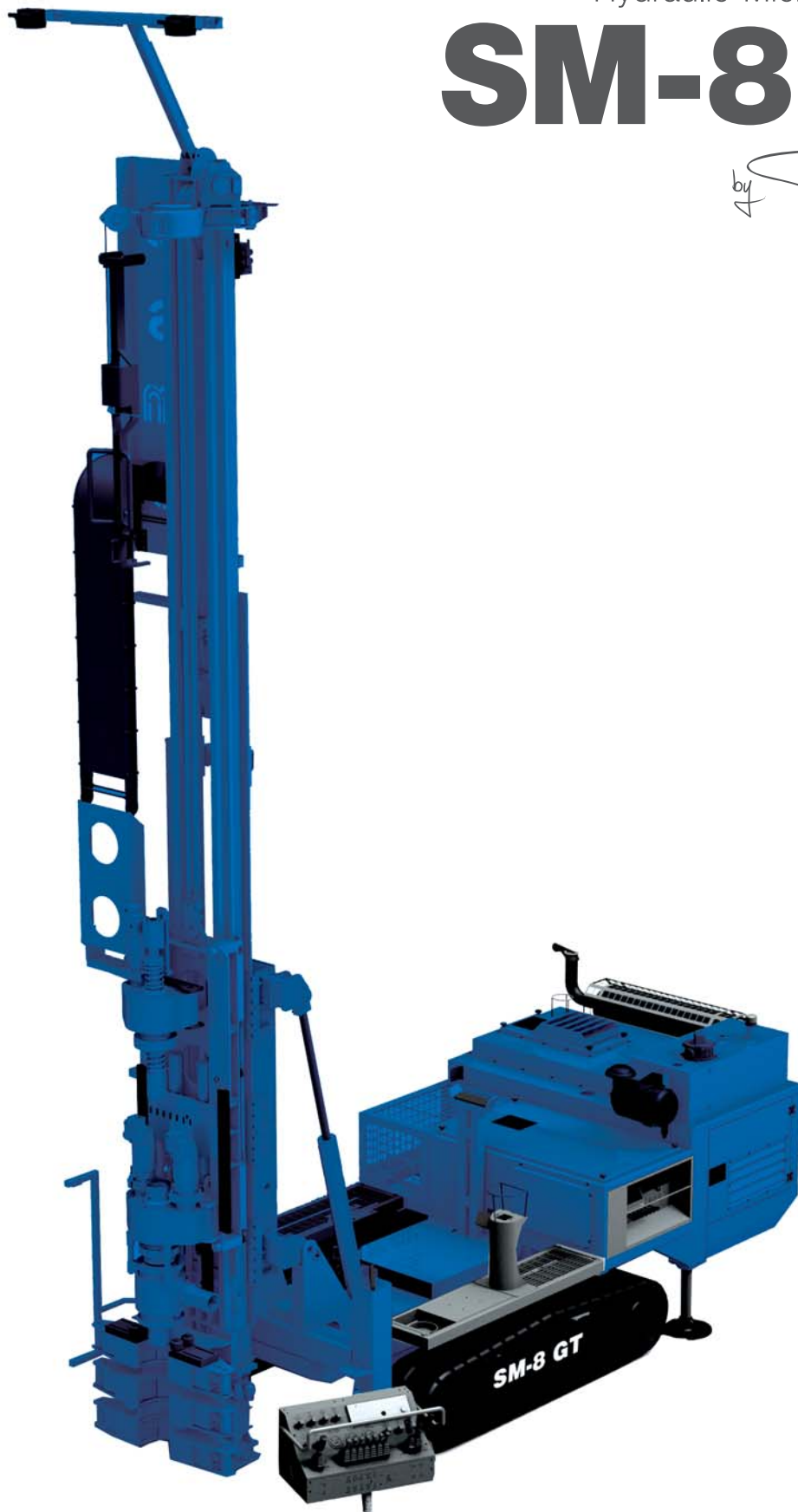


Hydraulic Microdrilling Rig

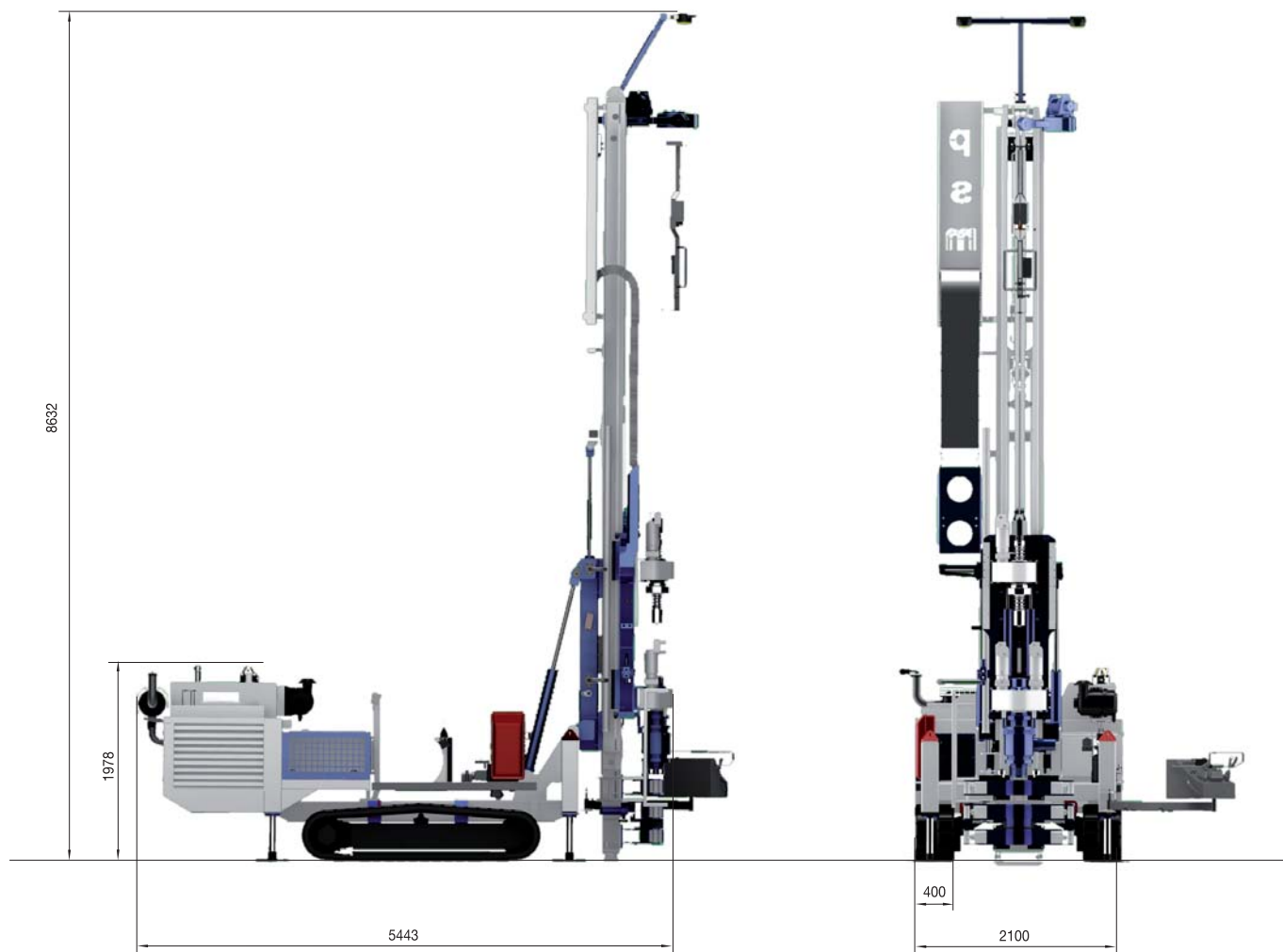
# SM-8GT

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

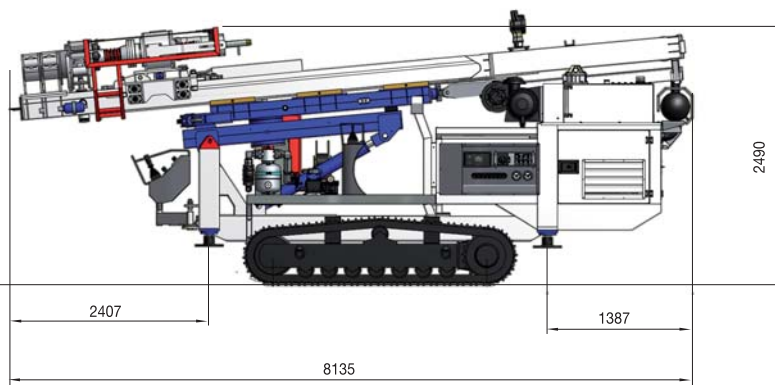
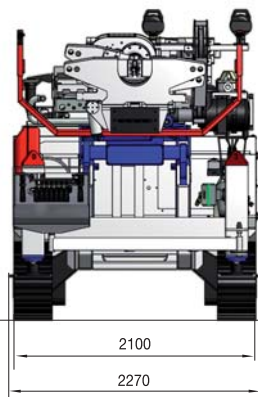
<b>Operating weight (approx.)</b>	<b>8900 kg</b>	<b>19621 lb</b>
<b>Undercarriage</b>		
- Track shoe width	<b>400 mm</b>	<b>15.7 in</b>
- Wheel base (centre idler to centre sprocket)	<b>1913 mm</b>	<b>75.3 in</b>
- Overall length	<b>2420 mm</b>	<b>95.3 in</b>
- Overall width (not extendable crawler)	<b>2100 mm</b>	<b>82.7 in</b>
- Travelling speed	<b>2,50 km/h</b>	<b>1.55 mph</b>
- Average ground pressure	<b>0,057 MPa</b>	<b>8.3 psi</b>
- Ground stabilizers	<b>n° 4 fixed outrigger</b>	<b>n° 4 fixed outrigger</b>
<b>Diesel Engine</b>		
	<b>DEUTZ TCD 2013 L04</b>	<b>DEUTZ TCD 2013 L04</b>
- Emission certification	<b>UE Stage III - EPA nonroad Tier 3</b>	<b>UE Stage III - EPA nonroad Tier 3</b>
- Diesel Engine power rating	<b>116 kW @ nd rpm</b>	<b>155 HP @ nd rpm</b>
- Fuel tank capacity	<b>200 l</b>	<b>53 US gal</b>
- Sound power level and sound pressure level	<b>LwA 105 - LpA 74 dB(A)</b>	<b>LwA 105 - LpA 74 dB(A)</b>
<b>Hydraulic system</b>		
- Main pumps: variable axial pumps	<b>273 l/min</b>	<b>72 US gal/min</b>
- Set pressure main pumps	<b>28 MPa</b>	<b>4061 psi</b>
- Hydraulic oil tank capacity	<b>325 l</b>	<b>86 US gal</b>
<b>Clamp &amp; hydraulic joint breaker</b>		
- Nominal size	<b>60 - 260 mm</b>	<b>2.4 - 10.2 in</b>
- Maximum clamping force	<b>165 kN</b>	<b>37093 lbf</b>
- Maximum breaking torque	<b>3700 daNm</b>	<b>27290 lbf*ft</b>

## 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 tramming
- 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		
<b>Length</b>	<b>8135 mm</b>	<b>320.3 in</b>
<b>Width</b>	<b>2270 mm</b>	<b>89.4 in</b>
<b>Height c/w handling magnet system</b>	<b>3096 mm</b>	<b>121.9 in</b>
<b>Weight</b>	<b>9000 kg</b>	<b>19841 lb</b>

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