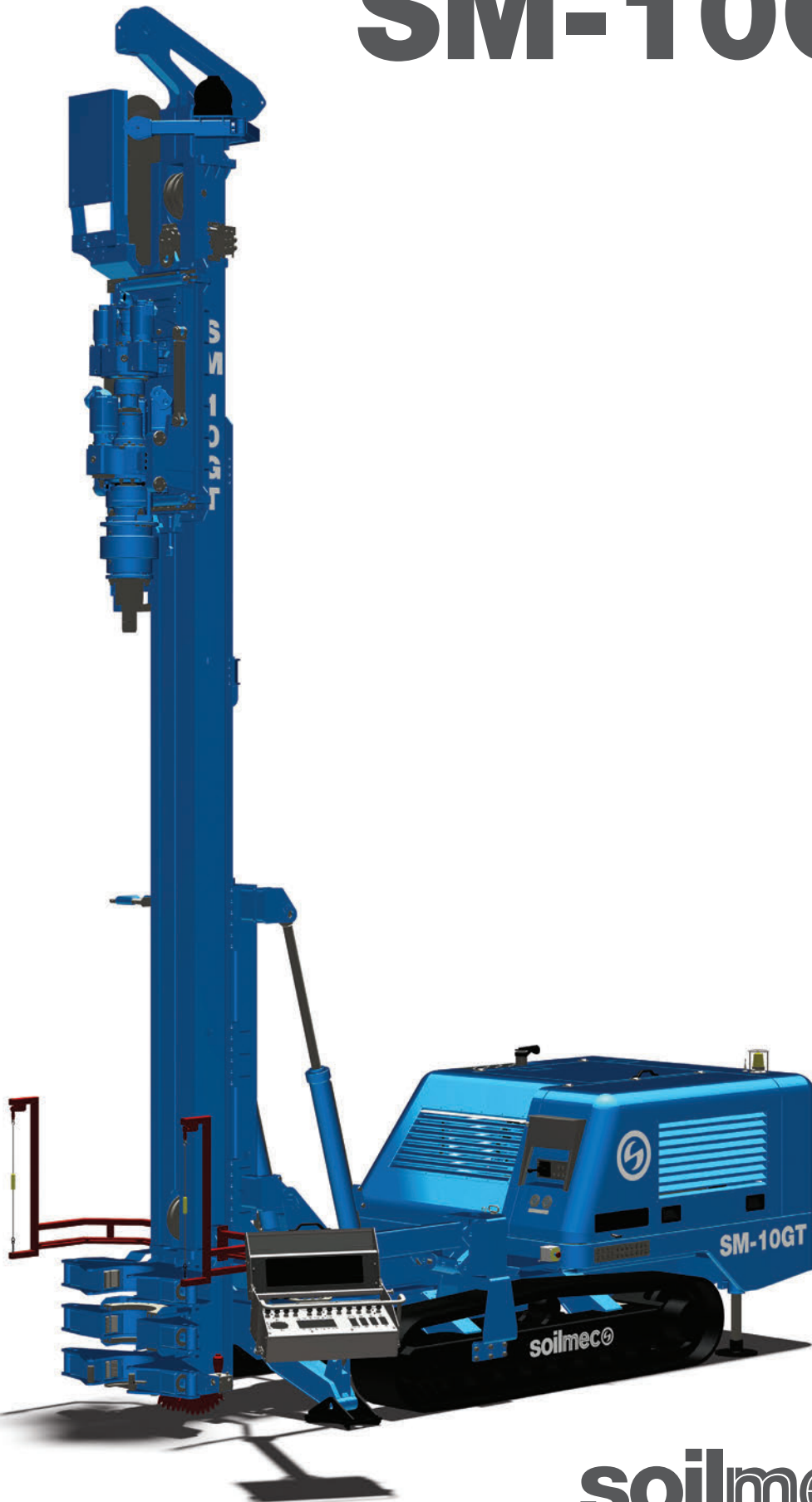


Hydraulic Microdrilling Rig

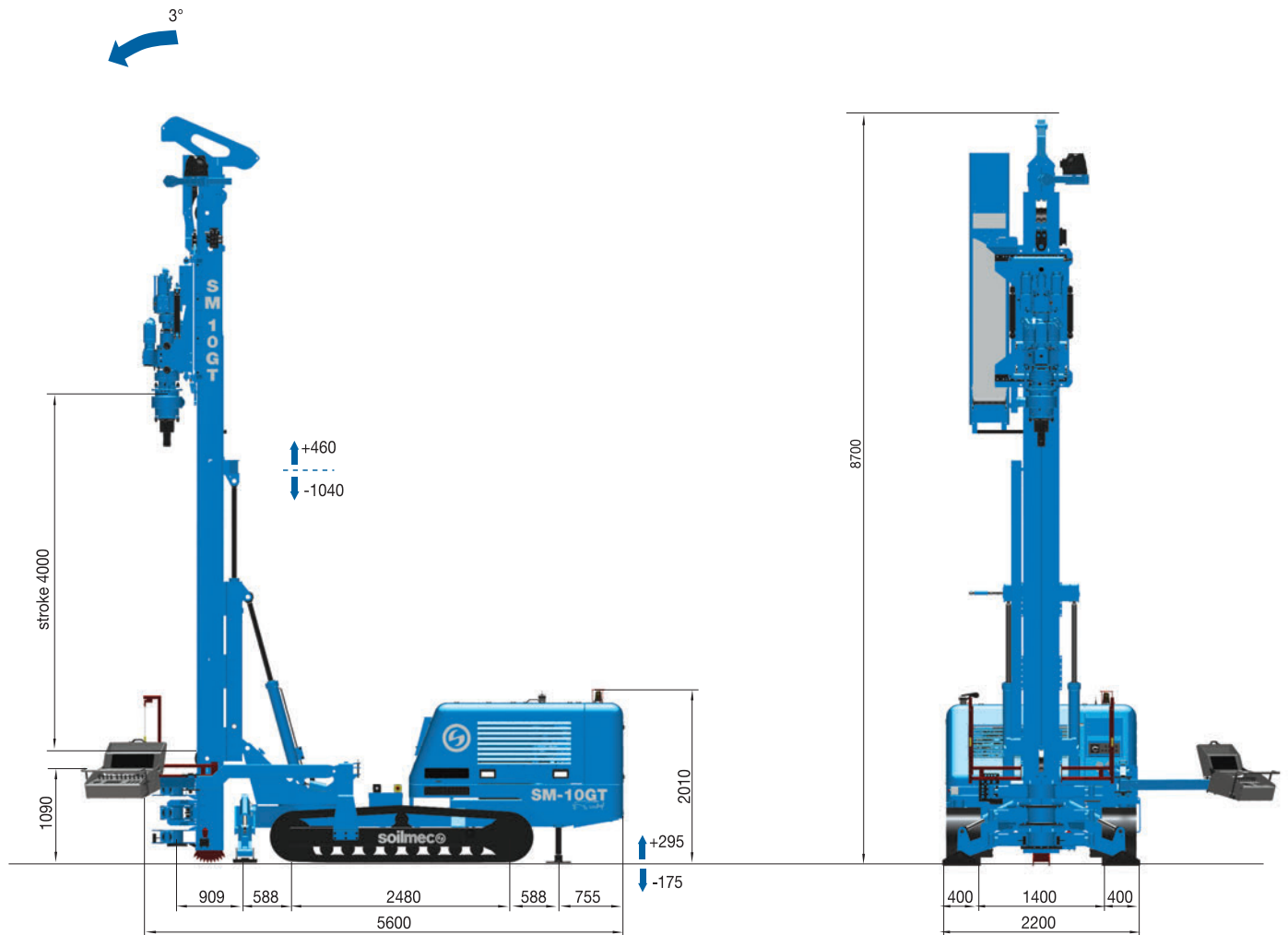
SM-10GT



soilmec 
Drilling and Foundation Equipment

SM-10GT Hydraulic Microdrilling Rig

APPLICATIONS



Hoist & Feed system	cylinder	cylinder
Feed stroke (in double head version)	4000 m	157.5 in
Rod/Casing length (in double head version)	3 m	9.8 ft
Maximum hoist pull/feed force	120/80 kN	26977 / 17985 lbf
Rotary head range	Double head EURODRILL	Double head EURODRILL
Gear box type	2/3 gears	2/3 gears
Maximum torque (upper/lower rotary)	870/2370 daNm	6417 / 17480 lbf·ft
Maximum rotation speed (upper/lower)	110/94 rpm	110/94 rpm

SM-10GT Hydraulic Microdrilling Rig

TECHNICAL DATA SHEET

Operating weight (approx.)	13000 / 14000 kg	28660 / 30865 lb
Undercarriage		
- Track shoe width	400 mm	15.7 in
- Wheel base (Centre idler to centre sprocket)	2480 mm	97.6 in
- Overall length	3062 mm	120.6 in
- Overall width (not extendable crawler)	2200 mm	86.6 in
- Travelling speed	1,50 km/h	0.93 mph
- Max climbing capacity (gradeability)	70 % (35°)	70 % (35°)
- Average ground pressure	0,057 MPa	8.3 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
Diesel Engine		
- Make and model	Cummins QSB4.5	Cummins QSB4.5
- Emission certification	Stage 3B - US EPATier 4i	Stage 3B - US EPATier 4i
- Aspiration	supercharged after liquid cooled	supercharged after liquid cooled
- Power rating	119 kW @ 2200 rpm	159 HP @ 2200 rpm
- Fuel tank capacity	200 l	53 US gal
- Sound power level and sound pressure level	LwA 105 - LpA 79 dB(A)	LwA 105 - LpA 79 dB(A)
Hydraulic system		
- Main pumps: variable axial pumps	170 + 170 l/min	44.9 + 44.9 US gal/min
- Auxiliary pumps: gear pumps	103 + 80 + 48 + 48 l/min	27.2 + 21.1 + 12.7 + 12.7 US gal/min
- Hydraulic oil tank capacity	600 l	159 US gal
Triple Clamp assembly		
- Nominal size	60 - 320 mm	2.4 - 12.6 in
- Maximum clamping force	200 kN	44961 lbf
- Maximum breaking force	5000 daNm	36878 lbf*ft
Service Winch		
- Type	controlled descent	controlled descent
- 1 st layer line pull	20 kN	4496.2 lbf
- 1 st layer nominal rope speed	46 m/min	151 ft/min
- Rope diameter	10 mm	0.4 in

STANDARD EQUIPMENT

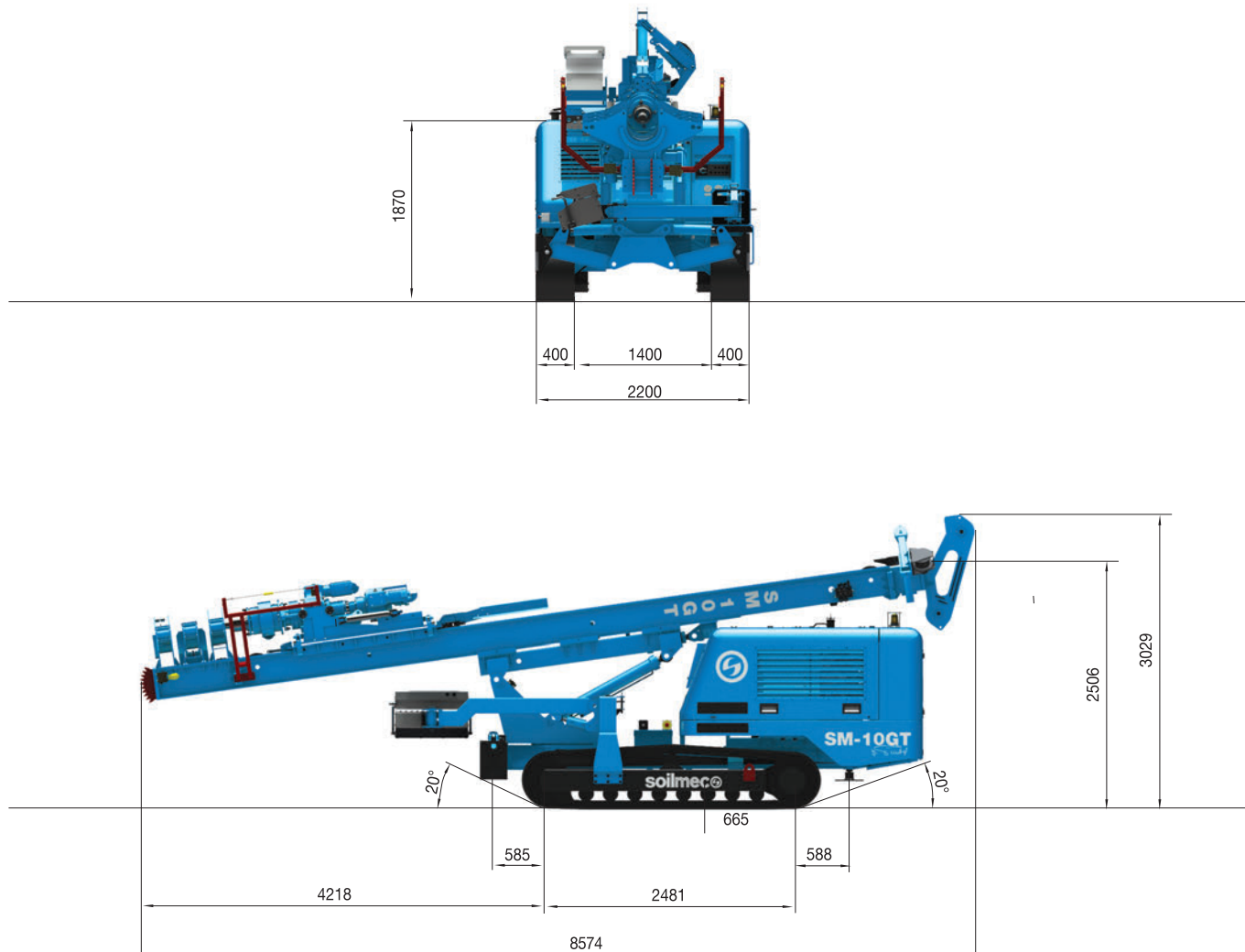
- Fixed kinematic mechanism suitable for geothermal technology
- Sliding mast by cylinder: 1500 mm stroke
- Additional third clamp for casing
- New hydraulic control board for drilling operations, hydraulic control for movements and cable remote control for tracking
- Air/water system and line lubrication for DTH
- Lighting system with 2 lights fitted on the top of the mast
- Load sensing Rexroth hydraulic system
- Heavy duty no modular mast c/w crowd system by cylinder
- Mud flushing diverter
- Rod and casing reduction for max diameter 90 and 152 mm
- Balancing rod for double head system
- Safety device

OPTIONAL EQUIPMENT

- Auxiliary winch (hoist pull: 20kN) complete with jib for 6 m rod lifting
- Foam pump (27 l/min@ 150 bar)
- Washing kit complete with hose re-winder
- Lighting kit
- Electric-Magnet clamp for loading rod/casing 3 m long
- Water/mud pump
- Single head version
- Rotopercussion kit

SM-10GT Hydraulic Microdrilling Rig

TRANSPORT, DIMENSIONS AND WEIGHTS



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

Technical data sheet SM10GT-002 02/2016

Transport configuration		
Length	8290 mm	326.4 in
Width	2200 mm	86.6 in
Height	3164 mm	124.6 in
Weight approx.	13000 kg	28660 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