



SM-3

ANCHORING
TIE-BACKS
MICROPILES
JET GROUTING
CORING



soilmec

Hydraulic Microdrilling Rig

SM-3

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Drilling and Foundation Equipment

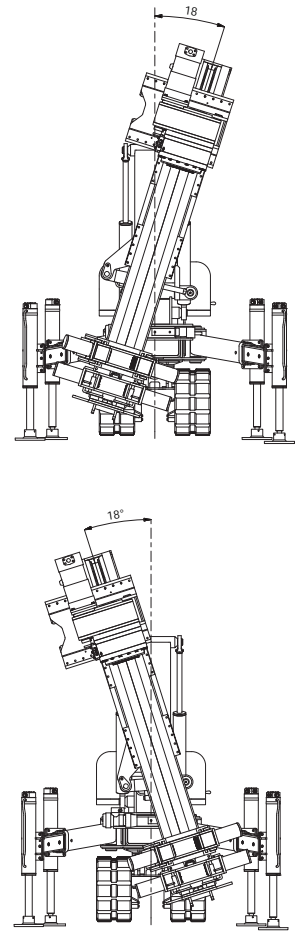
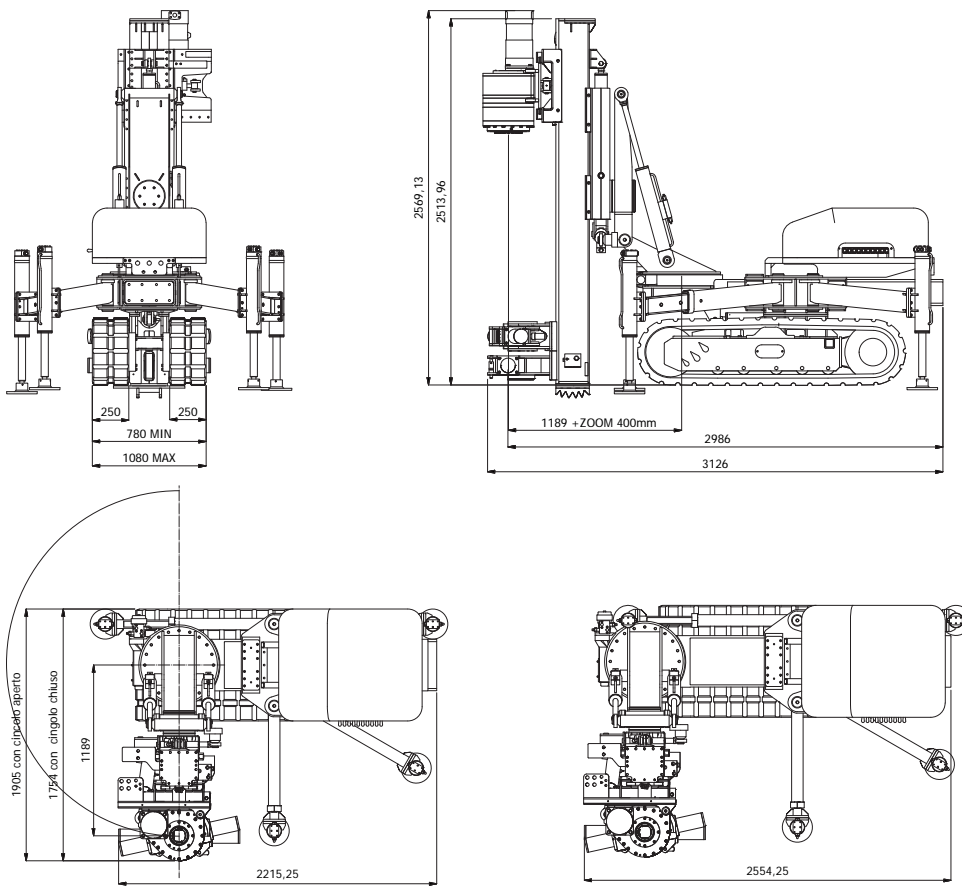
NEW SM-3 MICRODRILLING RIG

SM-3 is a new micro drilling rig specially designed to satisfy those customers who need to have high-range performance even in narrow and constrained spaces. The main unit shows up expandable crawlers (780mm-1130mm), outriggers, telescopic zoom, mast tilting +/- 18° and slew ring for working area +/- 180°. The SM-3 can be equipped with a wide range of rotary heads (up to 2000 daNm) to meet different drilling works requirements. Its modular mast offer the chance to have three different strokes for 1, 1,5 and 2m. long rods and is complete

with a hydraulic-motor-crowd-system (also a cylinder-crowd-system is available).

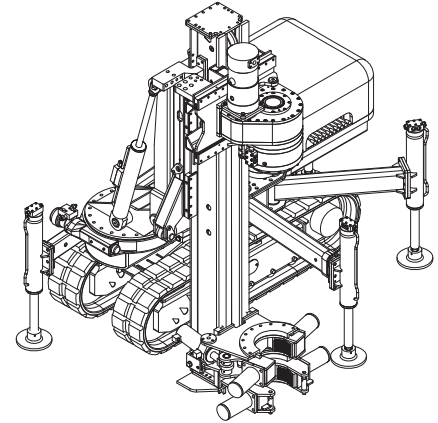
The main unit comes with a separated 2.5 ton weight power pack (75 kW electric or 85 kW diesel or 115 kW diesel) equipped with expandable crawlers as well (800-1150 mm).

The versatility of the micro rig is even proved by the possibility of installing a special mast light extension given way to the Jet Grouting technology and able to use JG rods up to 90 mm. diam.



TECHNICAL DATA

Operating weight	3.500 kg	7716 lbs
Extendable Crawler undercarriage		
Type	fixed gauge	fixed gauge
Chain class and pitch	rubber	rubber
Track shoe width	250 mm	9.85 in
Overall length	1.900 mm	74.8 in
Retracted crawler width	780 mm	30.7 in
Extended crawler width	1.080 mm	42.5 in
Power pack (separated)*		
Type	Electrical	Electrical
Make and model	Siemens	Siemens
Rated power	75 kW @ 1.450 rpm	102 HP @ 1450 rpm



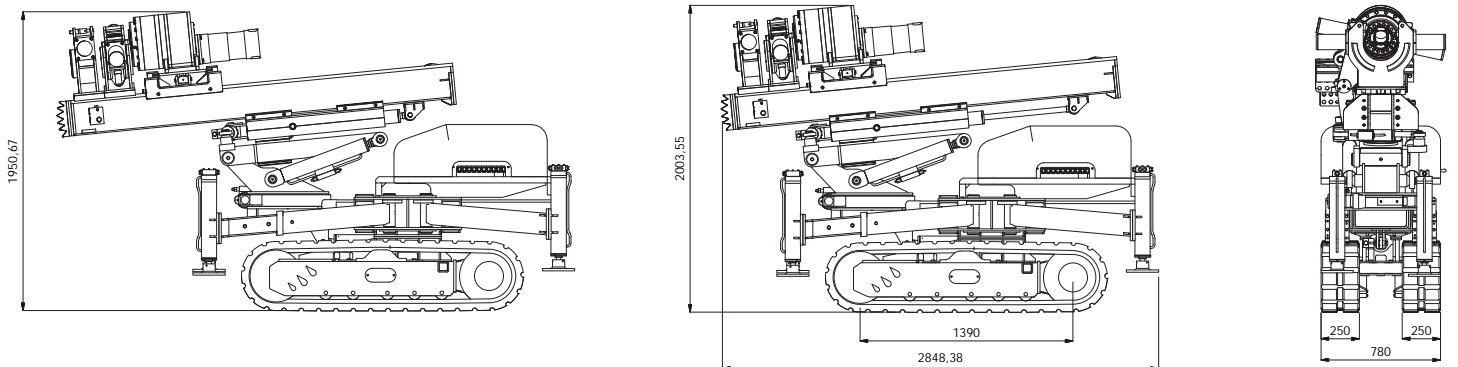
* Separated diesel power pack is available on request

Hydraulic Rotary head	up to 2.000 daNm		up to 14750 lb.ft			
Hoist & feed system (modular)						
Rod length type (c/w one rotary head)	2 m	1,5 m	1 m	6.5 ft	4.9 ft	3.2 ft
Feed type	Hydraulic motor*			Hydraulic motor*		
Feed stroke	2.400 mm	2.400 mm	2.400 mm	95 in	75 in	55 in
Maximum hoist pull	40 kN	40 kN	40 kN	8992 lbs	8992 lbs	8992 lbs
Maximum feed force	40 kN	40 kN	40 kN	8992 lbs	8992 lbs	8992 lbs
Maximum speed	36 m/min	36 m/min	36 m/min	118.11 ft/mt	118.11 ft/mt	118.11 ft/mt

* Cylinder crowd system is available on request

Clamp & Hydraulic joint breaker						
Nominal size	50-220 mm	50-220 mm	50-220 mm	1.96-8.66 in	1.96-8.66 in	1.96-8.66 in
Maximum clamping force	140 kN	140 kN	140 kN	31472 lbs	31472 lbs	31472 lbs
Maximum breaking torque	3.000 daNm	3.000 daNm	3.000 daNm	22126 lb.ft	22126 lb.ft	22126 lb.ft
Jet grouting						
Rod diameters	90 mm	90 mm	90 mm	3.54 in	3.54 in	3.54 in
Max treatment depth in single pass	7,3 m	7,3 m	7,3 m	24 ft	24 ft	24 ft
Drillguide extensions	6 m	6 m	6 m	19.6 ft	19.6 ft	19.6 ft

TRANSPORT DATA



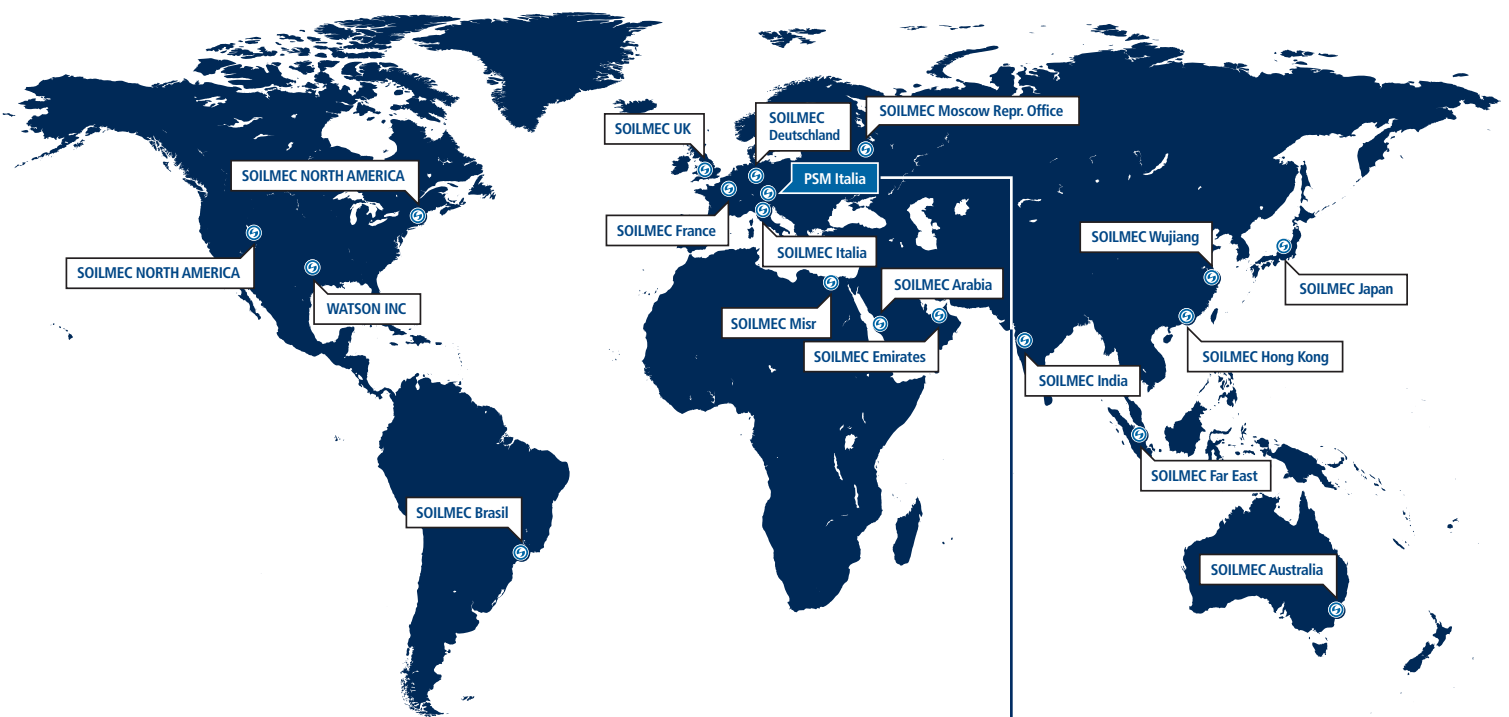
Mass & Transport		
Transport width	780 mm	30.7 in
Transport height	2.000 mm	78.7 in
Transport length	2.850 mm	112.2 in
Transport weight	3.500 + 2.500 kg	7716 + 5511 lbs
Total standard weight (w/o options)	3.500 + 2.500 Kg	7716 + 5511 lbs
Operative weight in jetting version	3.700 + 2.500 kg	8157 + 2500 lbs

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