

PSM-16GT

HYDRAULIC DRILLING RIG



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A new model

This new project responds to the demand for geothermal systems with perforations of between 100 and 250 m of depth. This equipment should cover over 70% of average demand in the sector.

This is a short pitch driller (2600 mm) with a 2300 mm wide carriage and specific pressure at low ground (0.65kg/sq cm). It is very compact with fixed kinetic motion and a mast with a wide section of 5 m of working stroke which houses a pull-push system of 19.5 tons of extraction and maximum push of 9.5. Conceived to guarantee fast manoeuvring (speeds up to 0.2/0.6 m/sec), it is equipped with a 180 kW diesel motor with a hydraulic system suitable for use with a double rotary and accessory systems such as vibratorotary. The standard version consists of a double rotary (upper head 11kN, lower head 32kN), a triple clamp, maximum 250 mm passage (300 mm optional) with 22 ton clamping force and a screwing torque of 65 kN.

The mud circulation pump can be a triplex (or duplex) with a 450/500 l capacity or a screw pump of 600 l/25 bar. A foam pump and line lubricators complete the standard outfit. Loading of the axis and casings, gathered in a special trailer-mounted rack located on the side of the driller during drilling operations, is done with a hydraulic collet with installed magnets with a flexible arm on board the machine.

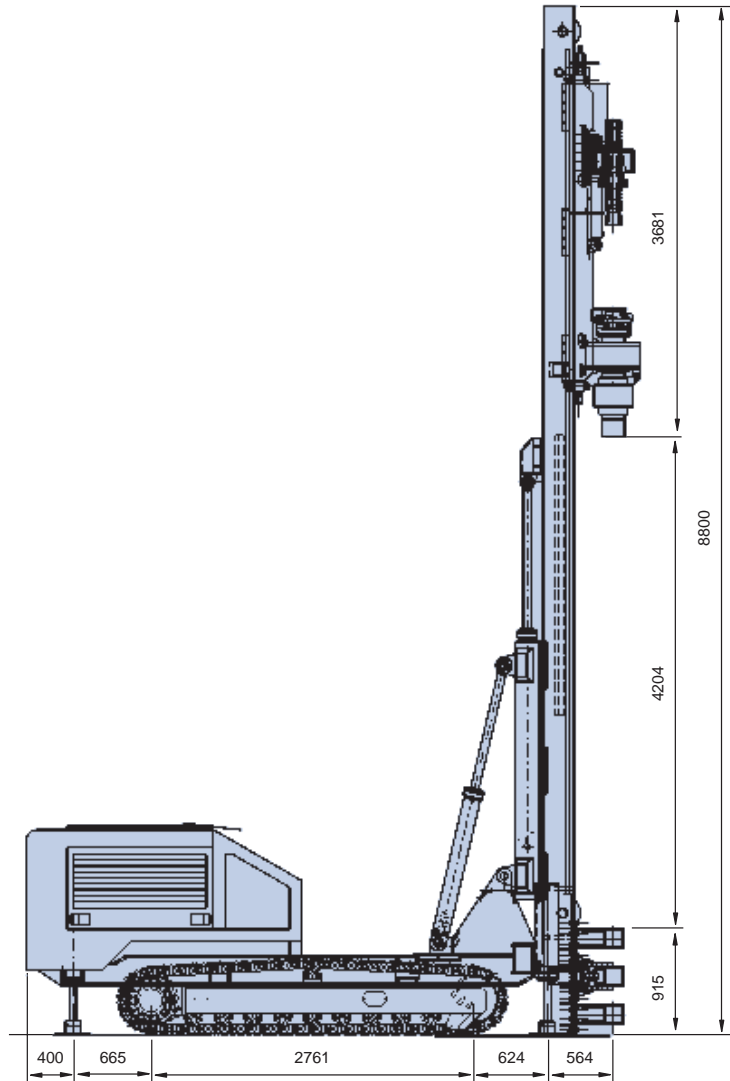
The machine can thus be configured with:

- a single rotary with 2.2 kN of torque for drilling with DTH, Tubex, Odex, Simmetrix, Super-jew
- double rotary (lower 32 kN, upper 11 kN)
- vibratorotary
- top hammer
- integrated vibratorotary system and lower rotary
- mud pump

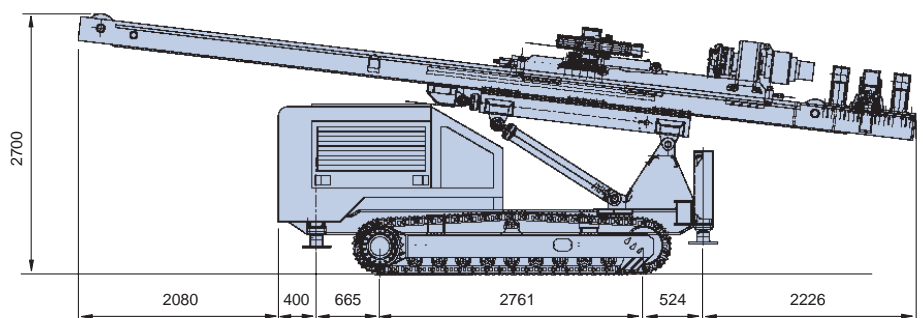
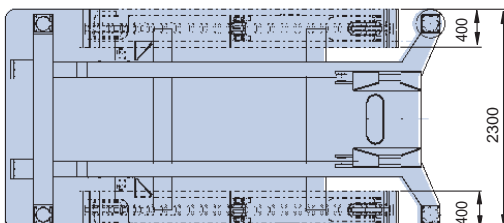
Base Machine		
Undercarriage		
Track shoe width	mm	2760
Overall width	mm	2300
Travelling speed	km/h	2.3
Average ground pressure	MPa	0.7
Diesel engine		
Make and model		DEUTZ TCD 2013 L06-2V
Rated Diesel Engine power (SAE J1995)	kW (BHp)	200 (272)
Fuel tank capacity	liter	500
Hydraulic system		
Oil tank capacity	liter	420
Lower rotary		
Max. nominal torque	kNm	32
Maximum drilling speed	rpm	60
Upper rotary		
Max. nominal torque	kNm	11
Max. drilling speed	rpm	80
Mast hoist & feed system		
Feed Type	Cylinder	
Feed stroke	mm	4000
Maximum hoist pull	kN	19.5
Maximum feed force	kN	13
Maximum speed (fast operation)	m/sec	0.14 - 0.58
Clamp & hydraulic joint breaker		
Nominal size	mm	60 - 320
Maximum clamping force (28 MPa)	kN	34
Maximum breaking torque	kN	8.6
Arm winch and magnet		
Winch lifting capacity	kg	500
Magnet lifting capacity	kg	150
STD. WEIGHT (w/o options)	kg	15000 - 17000
Noise level	LW _a - dB	80

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STANDARD VERSION

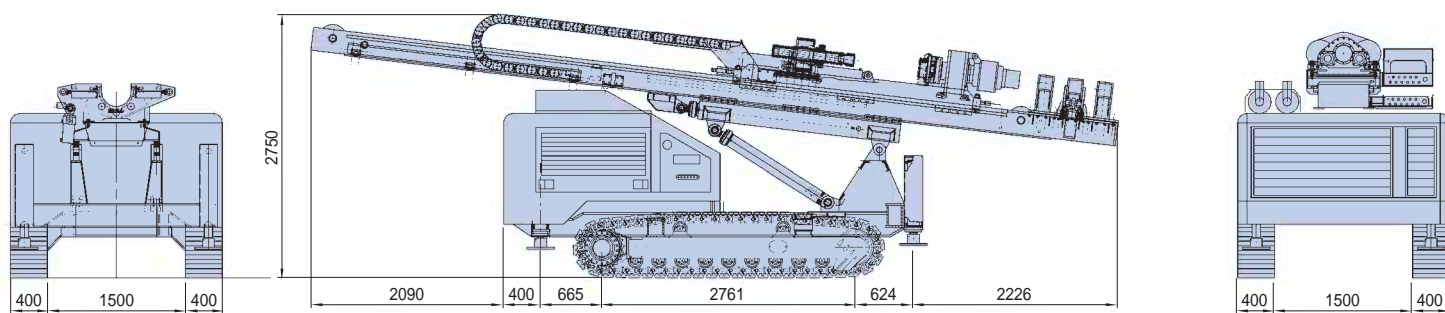
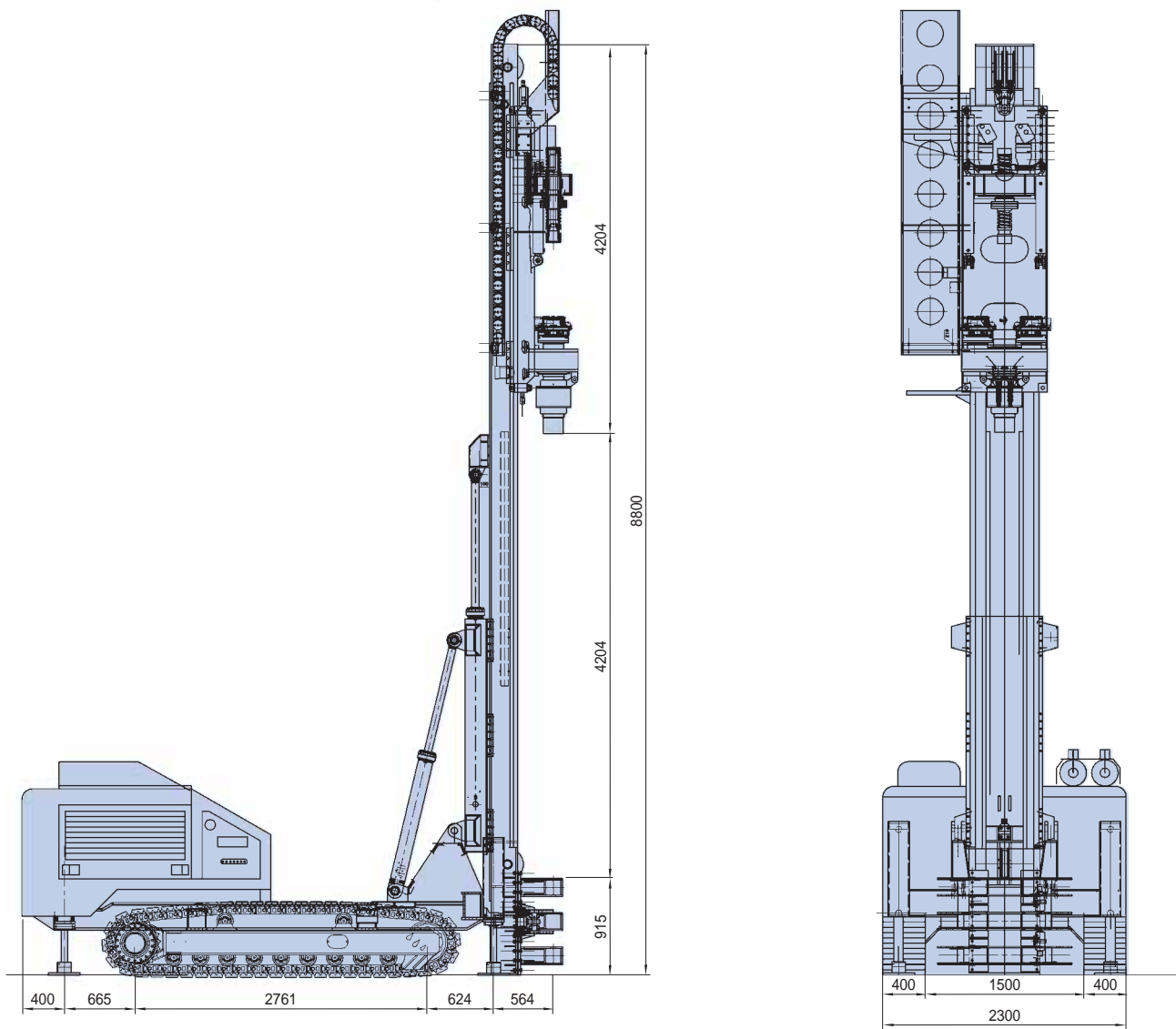


Transport Condition



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ANCHORS - MICROPILE





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CERTIFIED QUALITY SYSTEM

In 1990 Soilmec was awarded with the certification of its Quality System complying with ISO 9001:2000 and ISO 14001:2004 standards.



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

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