SM-14 stands for a hydraulic drilling rig. Here are its components and options:

**Components**

1. Crawler undercarriage with +/- 10° oscillating tracks.
2. Machine body including prime mover, hydraulic plant with load sensing control and soundproof canopy.
3. 2 hydraulic outriggers.
4. Control levers for rig positioning.
5. Articulated boom for mast positioning.
6. 4 x 90° turntable for mast rotation.
7. 1000 mm stroke cylinder for mast shoring.
8. Rotary cradle with adjusting rollers and 450 mm side-shifting device.
9. Variable speed rotary head with 1400 daNm max torque, 221 rpm max rotation.
10. Floating system.
11. Clamp max. diam. 415 mm.
12. Breaker max. diam. 415 mm.
13. Control board on rotating and pivoting arm for drilling and service functions.
14. Service winch with jib.
15. Chain for hydraulic hoses.

**Options**

- Flushing pump
- Rod Carousel
- Lifting crane
- 90° mast articulation

**Certified Quality System**

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

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

Soilmec SM-14 is a multipurpose drilling rig - HYDRAULIC DRILLING RIG

- Radio operated remote control.
- Dust collector;
- Rotary drilling system.;
- Service crane for handling of drilling rods and for rods & casing;
- Mast rotation by motoreducer for +_ 180°
- Jet-Grouting kit for mono, bi or three fluids treatment and steeples lifting speed for ø 127 mm rods;

Soilmec SM-14 may be further tailored with a wide range of optional items such as:

- Double Head.
- Rotop;
- Hydraulic drifter;
- Variable speed or 3-speeds gear box;

Soilmec SM-14 versatility unit that can be tailored to any customer need or geological conditions:

- Trouble free even in the hardest weather conditions. Featured with Load Sensing System, it has lower running costs. With a maximum lifting speed of 2176 m/min and a maximum line pull of 3971 kN, it can handle the most demanding site conditions.

- Its modular design is engineered for the execution of:
  - Micropiles,
  - Tie-backs,
  - Jet-Grouting,
  - Coring,
  - Drainage Wells.

- Maximum rope speed (4st or 5st layer): 2400 / 840 shank up to C112

- Noise level: LwA - LpA

- Maximum drilling speed:
  - Standard Version: 2300 rpm
  - Jet Grouting Version: 221 rpm

- Maximum breaking torque:
  - Standard Version: 1300 daNm
  - Jet Grouting Version: 1400 daNm

- Maximum clamping force: 28 MPa

- Nominal size: 50 - 315

- Maximum rope capacity / Rope fitted:
  - Standard Version: ø90
  - Jet Grouting Version: ø127

- Nominal size: 50 - 360

- Maximum treatment depth (T1/T1S-T2):
  - Standard Version: 4000 mm
  - Jet Grouting Version: 5000 mm

- Rod diameters: 60 - 415

- Maximum hoist pull:
  - Standard Version: 15400 / 16000 kN
  - Jet Grouting Version: 1147 kN

- Maximum feed force:
  - Standard Version: 400 kN
  - Jet Grouting Version: 240 kN

- Maximum feed stroke:
  - Standard Version: 1076 mm
  - Jet Grouting Version: 2176 mm

- Feed type:
  - Standard Version: 2 speeds
  - Jet Grouting Version: 3 speeds

- Mast hoist & feed system:
  - Standard Version: 200 mm
  - Jet Grouting Version: 450 mm

- Rated power:
  - Standard Version: 2300 kW (BHp)
  - Jet Grouting Version: 9915 kW (BHp)

- Electric motor (on request):
  - Standard Version: SIEMENS  4 POLS  50 Hz
  - Jet Grouting Version: CUMMINS QSB 4.5 - Tier III

- Max Diesel Engine power (SAE J1995):
  - Standard Version: 9853 kW (BHp)
  - Jet Grouting Version: 18713 kW (BHp)

- Average ground pressure:
  - Standard Version: 700 kg/m²
  - Jet Grouting Version: 1147 kg/m²

- Overall width:
  - Standard Version: 2176 mm
  - Jet Grouting Version: 2300 mm

- Undercarriage with oscillating tracks:
  - Standard Version: 15
  - Jet Grouting Version: 20

- Stroke 4000 mm:
  - Standard Version: 15
  - Jet Grouting Version: 20

- VIBRATOR HEAD

- Single blow energy:
  - Standard Version: 769 Nm
  - Jet Grouting Version: 114 / 127 Nm

- Vibrating force:
  - Standard Version: 2300 kN
  - Jet Grouting Version: 240 kN

- Vibration frequency:
  - Standard Version: 2460 (41) rpm
  - Jet Grouting Version: 2176 (41) rpm

- MAX TORQUE

- Nominal torque:
  - Standard Version: 785 daNm
  - Jet Grouting Version: 114 / 127 daNm

- Variable speed rotary head:
  - Standard Version: variable
  - Jet Grouting Version: variable

- Advantages:
  - Lower noise emission compared to DTH and TH technologies.
  - Higher efficiency compared to TH technology;
  - Lower skin friction of casing/rod (therefore less torque is needed);

- Single or double drilling string for up to 219 mm o.d.;

- Standard version:
  - Rotary/Rotop
  - Variable speed rotary head.

- Optional:
  - Rotary/Rotop
  - Rotary/Top Hammer
  - Rotary/Double Head
  - Hydraulic Top Hammer.

- JET GROUTING VERSION

- It combines Soilmec main reduction gear with one commercial brand hammering device.

- Double head: made possible by precise design of our vibro hammer unit (VR-1), providing a maximum torque of 1300 daNm and a maximum speed of 429 rpm.

- It provides a maximum torque of 1300 daNm and a maximum speed of 429 rpm.

- Advantages:
  - Single blow energy
  - Vibrating force
  - Vibration frequency
  - Max. nominal torque

- Gear box type:
  - Standard Version: variable
  - Jet Grouting Version: variable

- MAST MOVEMENTS

- It is made up by combining two conventional rotary to a Vibro hammer unit.

- It is made up by combining one conventional rotary to a Vibro hammer unit.

- It is made up by combining one conventional rotary to a Vibro hammer unit.

- It is made up by combining one conventional rotary to a Vibro hammer unit.
SM-14 Hydraulic Drilling Rig

1. Crawler undercarriage with +/−10° oscillating tracks.
2. Machine body including prime mover, hydraulic plant with load SENSING control and soundproof canopy.
3. 2° hydraulic outriggers.
4. Control levers for rig positioning.
5. Articulated boom for mast positioning.
6. 4 x 90° turntable for mast rotation.
7. 1000 mm stroke cylinder for mast shoring.
8. Rotary cradle with adjusting rollers and 450 mm side-shifting device.
9. Variable speed rotary head with 1400 daNm max torque, 221 rpm max rotation.
10. Floating system.
11. Clamping max. diam. 415 mm.
12. Breaker max. diam. 415 mm.
13. Control board on rotating and pivoting arm for drilling and service functions.
14. Service winch with jib.

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SM-14 HYDRAULIC DRILLING RIG

1. Crawler undercarriage with +/-10° oscillating tracks.
2. Machine body including prime mover, hydraulic plant with load SENSING control and soundproof canopy.
3. 3°2 hydraulic outriggers.
4. Control levers for rig positioning.
5. Articulated boom for mast positioning.
6. 4 x 90° turntable for mast rotation.
7. 1000 mm stroke cylinder for mast shoring.
8. Rotary cradle with adjusting rollers and 450 mm side-shifting device.
9. Variable speed rotary head with 1400 daNm max torque, 221 rpm max rotation.
10. Floating system.
11. Clamp max. diam. 415 mm.
12. Breaker max. diam. 415 mm.
13. Control board on rotating and pivoting arm for drilling and service functions.
14. Service winch with jib.
15. Chain for hydraulic hoses.
16. Flushing pump.
17. Rod Carousel.
18. Lifting crane.
19. 90° mast articulation.

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Soilmec SM-14 is a multipurpose drilling rig. Its modular design is engineered for the execution of different tasks, from drilling, coring, basic works, to jet-grouting. Soilmec SM-14 is equipped with advanced hydraulic systems, which guarantee a higher efficiency compared to other similar types of rigs, making the operations smooth and trouble-free even in the hardest weather conditions. Featured with Load Sensing System, it has lower running costs and a reduced wear and tear on components.

Soilmec SM-14 versatility unit that can be tailored to any customer need or geological conditions: it combines Soilmec main reduction gear with one commercial brand hammering device. Any combination of torque and speed can be set from operator’s console. Maximum drilling speed can be up to 600 bph (2300 rpm) and a maximum energy of 1400 Nm. Its modular design is engineered for the execution of:

Hyperdrill®: A made-up by mixing new conventional rotary to a Ultra frequency unit.

• Higher efficiency compared to TH technology;
• Lower skin friction of casing/rod (therefore less torque is needed);
• Higher penetration rate and output;
• Easy to handle and ready for any possible need.

Variable speed rotary head: any combination of torque and speed can be set from operator’s console. Operator can set the ratio for your drilling technology. Standard rotary may be easily modified on site, by fitting purposely-designed kits, to get either higher torque or higher speed versions.

Vibrorotary: it provides a maximum torque of 1300 daNm and a maximum speed of 221 rpm. It combines Soilmec main reduction gear with one commercial brand hammering device.

Rotop: it allows drilling with low frequency percussion hammering device, making the operations smooth and trouble-free even in the hardest weather conditions. Featured with Load Sensing System, it has lower running costs and a reduced wear and tear on components.

Soilmec SM-14 may be further tailored with a wide range of optional items such as:

• Double head.
• Vibrorotary;
• Variable speed or 3-speeds gear box;
• Gear motor;
• Electric motor (on request);
• Fuel tank capacity;
• Diesel engine;
• Average ground pressure;
• Travelling speed;
• Overall width;
• Track shoe width;
• Undercarriage with oscillating tracks;
• Mast hoist & feed system;
• Oil tank capacity;
• Hydraulic system;
• Electric motor (on request);
• Max. Diesel Engine power (SAE J1995);
• Average ground pressure;
• Travelling speed;
• Overall width;
• Track shoe width;
• Undercarriage with oscillating tracks;
• Mast hoist & feed system;
• Oil tank capacity;
• Hydraulic system;
• Electric motor (on request);
• Max. Diesel Engine power (SAE J1995);
• Average ground pressure;
• Travelling speed;
• Overall width;
• Track shoe width;
• Undercarriage with oscillating tracks;

The rig is fitted with proportional, hydraulic servo-assisted controls that make the operations smooth and trouble-free even in the hardest weather conditions. Featured with Load Sensing System, it has lower running costs and a reduced wear and tear on components.

### Technical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal size</td>
<td>50 - 315</td>
</tr>
<tr>
<td>Maximum speed (fast operation)</td>
<td>50 - 360</td>
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<tr>
<td>Maximum feed force</td>
<td>60 - 415</td>
</tr>
<tr>
<td>Maximum hoist pull</td>
<td>28*</td>
</tr>
<tr>
<td>Maximum rope speed (4st or 5st layer)</td>
<td>28*</td>
</tr>
<tr>
<td>Maximum clamping force</td>
<td>28*</td>
</tr>
<tr>
<td>Nominal torque</td>
<td>1076*</td>
</tr>
<tr>
<td>Maximum drilling speed</td>
<td>2300 rpm</td>
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<tr>
<td>Maximum single blow energy</td>
<td>785</td>
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<tr>
<td>Stroke</td>
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<tr>
<td>Gear box type</td>
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<tr>
<td>Gear box type</td>
<td>2 speeds, 3 speeds</td>
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<tr>
<td>Maximum rope capacity (ø90)</td>
<td>1576</td>
</tr>
<tr>
<td>Maximum rope capacity (ø114)</td>
<td>1076</td>
</tr>
<tr>
<td>Maximum rope capacity (ø127)</td>
<td>9915</td>
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<tr>
<td>Shot frequency</td>
<td>90 (121) @ 1485 rpm</td>
</tr>
<tr>
<td>Single blow energy</td>
<td>70 (96) @ 1650 rpm</td>
</tr>
<tr>
<td>Maximum vibration frequency</td>
<td>240 bpm (2000 rpm)</td>
</tr>
<tr>
<td>Vibration frequency</td>
<td>266</td>
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<tr>
<td>Maximum clamping force</td>
<td>266</td>
</tr>
<tr>
<td>Maximum feed force</td>
<td>2176</td>
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<tr>
<td>Gear box type</td>
<td>3 speeds</td>
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<tr>
<td>Maximum hoist pull</td>
<td>221</td>
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<tr>
<td>Maximum rope speed (4st or 5st layer)</td>
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<tr>
<td>Maximum rope speed (4st or 5st layer)</td>
<td>7000</td>
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<td>Maximum rope speed (4st or 5st layer)</td>
<td>7000</td>
</tr>
</tbody>
</table>
A new model
Soilmec SM-14 is a multipurpose drilling rig engineered for the execution of micro-piles, bored holes, jet-grouting, coring, tie-back, and more. For rig to be tailored to the specific needs of the operator, Soilmec offers various options that make the operations smooth and efficient. Its modular design is engineered for the execution of:
- Micropiles, Tie-backs, Jet-Grouting, Coring, Drain, Water wells.

Features:
- Nominal Special kit
  - Radio operated remote control.
  - Dust collector;
  - Service crane for handling of drilling rods and for rods & casing;
  - Mast for 1.5, 1.8, 2.1, 3, 4 and 7 m stroke;
  - Mast rotation by motoreducer for +_ 180° and ± 90°
  - Jet-Grouting kit for mono, bi or three fluids treatment and steeples lifting speed for ø 127 mm rods;

Soilmec SM-14 may be further tailored with a wide range of optional items such as:
- Double Head.
- Rotop;
- Vibrorotary;
- Hydraulic drifter;
- Variable speed or 3-speeds gear box;

The rig is fitted with proportional, hydraulic servo-assisted controls that make the operations smooth and trouble free even in the hardest weather conditions. Featured with Load Sensing System, it has lower running costs and a reduced wear and tear on components.

Soilmec SM-14 versatility unit that can be tailored to any customer need or geological conditions:

**Specifications:**
- **Engine:** CUMMINS QSB 4.5 - Tier III
- **Diesel engine:** SIEMENS 4 POLS 50 Hz
- **Rated power:** 90 (121) @ 1485 rpm
- **Peak power:** 123 (165) @ 2000 rpm
- **Fuel tank capacity:** 200 liter
- **Oil tank capacity:** 400 liter
- **Average ground pressure:** 0,07 MPa
- **Hydraulic system:** 90 (121) @ 1485 rpm
- **Travelling speed:** 2,7 km/h
- **Overall length:** 46 / 40 m
- **Overall width:** 87* m
- **Track shoe width:** 20 mm
- **Undercarriage with oscillating tracks:** 46 / 40 m
- **Rope capacity / Rope fitted:** 2400 / 840 bpm
- **Rope diameter:** 266 mm
- **Maximum line pull (1st layer):** 15400 / 16000 kN
- **Maximum clamping force (28 MPa):** 1147 kN
- **Maximum feed force:** 20 kN

**Jet-Grouting Version**
- **JET GROUTING VERSION**
- **BASE MACHINE**
  - **Nominal Special kit**
    - Double Head.
    - Rotop.
    - Vibrorotary.
    - Hydraulic drifter.
    - Variable speed or 3-speeds gear box.

Data:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine</strong></td>
<td>90 (121) @ 1485 rpm</td>
</tr>
<tr>
<td><strong>Rated power</strong></td>
<td>90 (121) @ 1485 rpm</td>
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<tr>
<td><strong>Maximum line pull (1st layer):</strong></td>
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<tr>
<td><strong>Maximum clamping force (28 MPa):</strong></td>
<td>1147 kN</td>
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<tr>
<td><strong>Maximum feed force</strong></td>
<td>20 kN</td>
</tr>
</tbody>
</table>

**Working condition**
Soilmec SM-14 is a multipurpose drilling rig. Its modular design is engineered for the execution of flexible, targeted, site-specific drilling, coring, driving, and related works.

**HYDRAULIC DRILLING RIG**

- Nominal size
- Special kit
  - Radio operated remote control.
  - Dust collector;
  - Foam Pump;
  - Service crane for handling of drilling rods and for rods & casing;
  - Mast for 1.5, 1.8, 2.1, 3, 4 and 7 m stroke;
  - Mast rotation by motoreducer for +_ 180°
  - 90°
  - Jet-Grouting kit for mono, bi or three fluids treatment and steeples lifting speed for ø 127 mm rods;
  - Rotop;
  - Vibrorotary;
  - Hydraulic drifter;
  - Variable speed or 3-speeds gear box;

**Costs and a reduced wear and tear on components.**

The rig is fitted with proportional, hydraulic servo-assisted controls that make the operations smooth and trouble free even in the hardest weather conditions. Featured with Load Sensing System, it has lower running costs and a reduced wear and tear on components.

**Advantages:**

- Lower noise emission compared to DTH and TH technologies.
- Lower skin friction of casing/rod (therefore less torque is needed);
- Single or double drilling string for up to 219 mm o.d.;
- Advantages:
  - Vibrorotary.

**Working condition**

<table>
<thead>
<tr>
<th>Make and model</th>
<th>Gear motor</th>
<th>Max Diesel Engine power (SAE J1995)</th>
<th>Electric motor (on request)</th>
<th>Rated power</th>
<th>Fuel tank capacity</th>
<th>Average ground pressure</th>
<th>Overall width</th>
<th>Overall length</th>
<th>Track shoe width</th>
<th>Undercarriage</th>
<th>CUMMINS QSB 4.5 - Tier III</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>GEAR MOTOR</td>
<td>Max. Nominal torque</td>
<td>Electric motor</td>
<td>90 (121) @ 1485 rpm</td>
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<td>45</td>
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<td></td>
<td>VR-2</td>
<td>Max. nominal torque</td>
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<td>45</td>
<td>2,7</td>
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<td>3062</td>
<td>400</td>
<td>400</td>
<td>SIEMENS 4 POLS 50 Hz</td>
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<td>VR-3</td>
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<td>45</td>
<td>2,7</td>
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<td></td>
<td>VR-6</td>
<td>Max. nominal torque</td>
<td>VS 266</td>
<td>1485 rpm</td>
<td>45</td>
<td>2,7</td>
<td>2300</td>
<td>3062</td>
<td>400</td>
<td>400</td>
<td>SIEMENS 4 POLS 50 Hz</td>
</tr>
</tbody>
</table>
SM-14 HYDRAULIC DRILLING RIG

1 - Crawler undercarriage with +/-10° oscillating tracks.
2 - Machine body including prime mover, hydraulic plant with load SENSING control and soundproof canopy.
3 - 2 hydraulic outriggers.
4 - Control levers for rig positioning.
5 - Articulated boom for mast positioning.
6 - 4 x 90° turntable for mast rotation.
7 - 1000 mm stroke cylinder for mast shoring.
8 - Rotary cradle with adjusting rollers and 450 mm side-shifting device.
9 - Variable speed rotary head with 1400 daNm max torque, 221 rpm max rotation.
10 - Floating system.
11 - Clamp max. diam. 415 mm.
12 - Breaker max. diam. 415 mm.
13 - Control board on rotating and pivoting arm for drilling and service functions.
14 - Service winch with jib.
15 - Chain for hydraulic hoses.

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

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