

Soilmec, leader in the ground engineering field since 1969.

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Soilmec equipment is used every day on jobsites all around the world for the construction of bridges, viaducts, motorways, tunnels, underground lines, railways, industrial plants, ports and buildings. Thanks to a broad, constantly upgraded and improved range of products and a greatly increased production capacity, Soilmec is a leading light of the ground engineering industry worldwide.

Soilmec has 8 manufacturing facilities (Italy, USA, Brazil, China, Dubai and India) and an extensive distribution network of dealers and branches in more than 60 countries that ensure a vast coverage and representation.

Soilmec - The world is our home

From South America to the Far East and Australia, from Africa to Iceland: a Soilmec machine is working in more than 90 countries throughout the 5 continents, even in this moment. Over 90% of Soilmec turnover comes from exports. Every day, Soilmec equipment works in all types of soil and climate conditions, social contexts, languages and cultures. With its robust design, Soilmec equipment can work from desert to artic regions. The day-by-day use in worldwide jobsites makes it possible to assess the effectiveness of the technical solutions developed by Soilmec.

Soilmec Vision - Deeply rooted in providing engineering solutions

Soilmec, a community able to develop the most advanced technologies thanks to its deep roots in the ground engineering field.

Quality

Safety

In 1990 Soilmec was awarded At Soilmec, we are constantly the UNI EN ISO 9001 certification, which reflects our commitment to supplying highend products.

and daily committed to maintaining the highest standards to safeguard the health and safety of our employees and customers.

Environment

In 1997 Soilmec was awarded the ISO 14001 certification, which demonstrates our serious commitment to protecting the environment.



Soilmec new product lines

Soilmec is proud to introduce three new hydraulic drilling rig lines: Evolution, Advanced and High Technology.

These new product lines have been specially designed to best meet the global piling construction industry demand.

The three new lines enrich Soilmec's "Solution provider" concept: ensuring the best products, technologies, support and service to fulfil your needs.

Welcome to the new blue!



EVOLUTION LINE

Functionality: it can meet specific piling requirements.

Designed for bored piles with Kelly bar and CFA.



Flexibility: it can suit different technologies.

Designed for bored piles with Kelly bar and CFA; complementary kits allow to perform all piling and soil improvement techniques.



ADV

HIGH TECHNOLOGY LINE

Multifunctionality: it can perform different technologies.

Designed for bored piles with Kelly bar and CFA, it can be easily converted to perform all piling and soil consolidation techniques.





Drilling rigs designed for maximum onsite return on investment.

- Efficiency
- Power
- Performances
- Flexibility



Engine automatic idle speed system to maximise fuel economy.

Hydraulic components and circuit specially designed for maximum performance.

Wiring harness solution with quick-fit connectors.

Cylinder Crowd system designed to use longer casings or very large diameter drilling augers and buckets.

Easy conversion from Cylinder to Winch crowd system.

Controlled descent or free fall winches with wider grooved drums to optimise rope

working life and minimise wear and tear.



S R 95

Masts and rotary heads ensure the best weight-to-performance ratio.

Rigs under 50 tons can be transported with the Kelly bar installed.

Rigs over 70 tons are designed with removable tracks and self-lifting counterweight.

SR-95

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Complementary kits allow to use different piling and soil consolidation techniques.

Soilmec H-Cab



A cab designed with operator comfort, ease-of-use and increased productivity in mind.

- Large-size
- Easy access
- Improved visibility
- Ergonomic design



1050mm-wide operator compartment with large windows for increased space and higher visibility.



Sliding door for effortless access with catch against accidental closing.

Fully adjustable air suspension seat with additional lumbar support.

Climate control unit to maintain the most comfortable temperature inside the cab.









DMS-ON-BOARD, a multi-language adjustable touch-screen to manage the drilling rig, monitor alarms, and set and store technology parameters in real time.





Drilling rigs designed in compliance with the new European standard EN 16228

- Safer access
- Higher visibility
- Increased manoeuvrability
- Environmentally-friendly





Removable 900mm-wide platforms with handrails and ladders for easier and safer access to the cab and turret top floor.

CCTV cameras with dedicated 7" screen in the operator cab and adjustable mirrors to ensure maximum control of the work area surrounding the rig. LED lights inside the cab and all around the rig ensuring at least 10 lux in the dark. **Radio remote control** for rig loading and unloading onto/from trucks. Automatically activated warning tone during rig travelling and turret slewing.

SR-75

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Oil discharge conveying system with quick-connect hoses for fluid change. Fiberglass canopies with sound proofing system for improved noise reduction. **U.S. EPA Tier 4 Final and EU stage IV** low-emission engines with open crankcase ventilation filter, particulate filter and high temperature regeneration system to reduce particulate emissions by up to 90% and achieve a NOx reduction of up to 50%.





EVOLUTION

Functional rigs designed to offer you the best performances in LDP and CFA versions.



Features

- CAT base turret equipped with CAT Tier3
 diesel engine.
- Cylinder/Winch pull-down quick conversion system.
- Transported in one single piece with no Kelly bar or CFA for faster rig-up on site.





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EVO line - Model	SR-40	SR-60	SR-80
Max pile diameter	1500 mm	1800 mm	2000 mm
Max pile depth	61 m	71 m	77 m
Max torque	161 kNm	201 kNm	271 kNm
Rated engine power	180 kW	261 kW	328 kW
Operative weight	47 t	60 t	80 t
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Flexible rigs designed to offer you the best suited drilling solution.



Soilmec

HIGH TÉCHNOLOG

Solution Provider

Multifunction rigs designed to offer yo the best technological solution.







Features

- Base turret equipped with Tier3 or Tier4 diesel engine.
- H-cab with on-board DMS.
- CFA, DP, CSP, LHR and Turbo-Jet quick conversion kits.

HIT line - Model	SR-95	SR-125	SR-145
Max pile diameter	2100 (3000) mm	3000 (3500) mm	3000 (3500) mm
Max pile depth	106.5 m	121 m	121 m
Max torque	351 kNm	435 kNm	435 kNm
Rated engine power	403 kN	470 kN	470 kN
Operative weight	90 t	128 t	145 t

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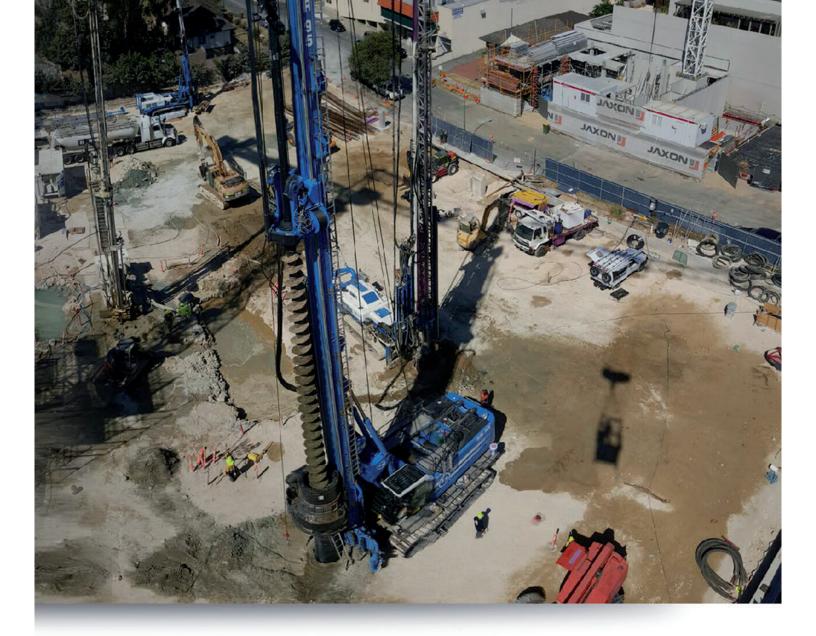
CFA version Continuous Flight Auger piles

Since 1982 Soilmec is a worldwide leader in the manufacture of CFA drilling rigs.

Every Soilmec LDP rig can be converted to CFA technology to construct piles with a maximum diameter of 1200 mm and a maximum depth of 36 metres.



CFA line - Model	SR-40	SR-60	SR-80	SR-30
Max pile diameter	1000 mm	1000 mm	1200 mm	900 mm
Max pile depth	20 m	22 m	23.7 m	23 m
Extraction force	520 kN	560 kN	800 kN	380 kN
Operative weight	49 t	62 t	79 t	38 t





SR-45	SR-75	SR-95	SR-125	SR-145
1000 mm	1200 mm	1200 mm	1200 mm	1200 mm
21.5 (24) m	25.5/27 (29) m	30/32 m	32/36 m	32/36 m
480 kN	984 kN	1100 kN	1036 kN	1362 kN
41 t	71 t	94 t	127 t	144 t

CAP/CSP version Cased Auger Piles

Cased Secant Piles

The SR-75 ADV and High Technology piling rigs can be converted to CAP/CSP technologies.

The Soilmec solution of two completely independent rotaries to drive the auger and the casing along the mast proved its worth in very complex construction sites and in extreme geological conditions. CAP/CSP piles can be constructed with a maximum diameter of 1200 mm at a maximum depth of 29 metres.



CAP/CSP line - Model	SR-75	
2 nd rotary max torque	268 kNm	
Max diameter	800 mm	
Max pile depth	24,5 m	
Max cased depth	18,4 m	





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SR-95	SR-125	SR-145	
335 kNm	508 kNm	508 kNm	
1000 mm	1200 mm	1200 mm	
27,3 m	29,2 m	29,3 m	
20,8 m	23 m	22,8 m	

DP/TCT version

Displacement Piles Traction Compacting Technology (Patented)

The Advanced and High Technology piling rigs can be converted to DP technology.

TCT has been developed to displace soil while the special patented tool is extracted upon completion of drilling. Soil displacement is obtained by exploiting the rig's pull-up force (that is always higher than the pull-down force).

Additional rear outriggers and mast lattice extensions improve stability and performance and allow to construct piles with a maximum diameter of 1000 mm at a maximum depth of 39 metres.





DP/TCT line - Model	SR-45	SR-75	
Max pile diameter	350 mm	600 mm	
Max TCT diameter	400 mm	800 mm	
Max pile depth	20 m	22,7 m	
Max pile depth with lattice mast extension	23 m	30,7 m	





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Sł	R-95	SR-125	SR-145
600) mm	800 mm	800 mm
800) mm ·	1000 mm	1000 mm
25	,5 m	28,5 m	31,5 m
3	3 m	36 m	39 m

TJ version

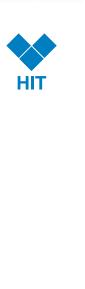
The Advanced and High Technology piling rigs can be converted to TJ technology to create columns of consolidated soil with a maximum diameter of 1500 mm and a maximum depth of 31 metres. An additional external power pack allows to construct two columns simultaneously, with the possibility to adjust the axis-to-axis distance.





TJ line - Model	SR-45	SR-75	
Max treatment diameter	1000 mm	1500 mm	
Max Pile depth with 8,5 m string extension	19 m	20,7 m	
Mast lattice boom extension lenght	10 m	15,8 m	
Max depth c/w lattice boom mast extension	23 m	30,7 m	







SR-95	SR-125	SR-145	
1500 mm	1500 mm	1500 mm	
25,5 m	28,5 m	31,5 m	
15,8 m	15,8 m	15,8 m	
33 m	36 m	39 m	

LHR version

Every Soilmec LDP rig can be converted into a LHR rig to drill piles with a maximum diameter of 1200 mm at a maximum depth of 36 metres.

The conversion kits have been designed to operate in jobsites with low headroom conditions.







LHR line - Model	SR-30	SR-45	
Min operating height	7,5 ÷ 12,2 m	8,5 ÷ 9,8 m	
Max pile diameter	1500 (3000) mm	1500 (3000) mm	
Max pile depth	24,8 m	19,3 m	
Crowd system stroke	2550 mm	2500 mm	
Crowd system force	101 / 124 kN	140 / 207 kN	







LHR line - Model	SR-75	
Min operating height	5,9 ÷ 8,9 m	
Max pile diameter	2500 mm	
Max pile depth	60 m	
Crowd system stroke	2440 ÷ 5440 m	
Crowd system force	230 / 230 kN	

Blue is the color of the clear horizon, shining with innovation. Blue is the color of excellence. Blue is the color of our new equipment, designed for the future, ready today.



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