



SC-110
Urban
soilmec®

The Urban hydromill

Hydromill designed to meet the demanding requirements of urban jobsites

The SC-110 Urban is specifically designed for hydromill applications. In combination with the SH-35, it guarantees **high performance and flexibility**.

The setup allows operation in construction sites with extremely confined conditions.

Two height configurations are available (*standard and low headroom*), and each configuration can be arranged with the **power pack in three different positions**.





Compact

The whole machine can operate within a **working radius of 4.6 m.**

Silent

Outstanding low-noise emission.

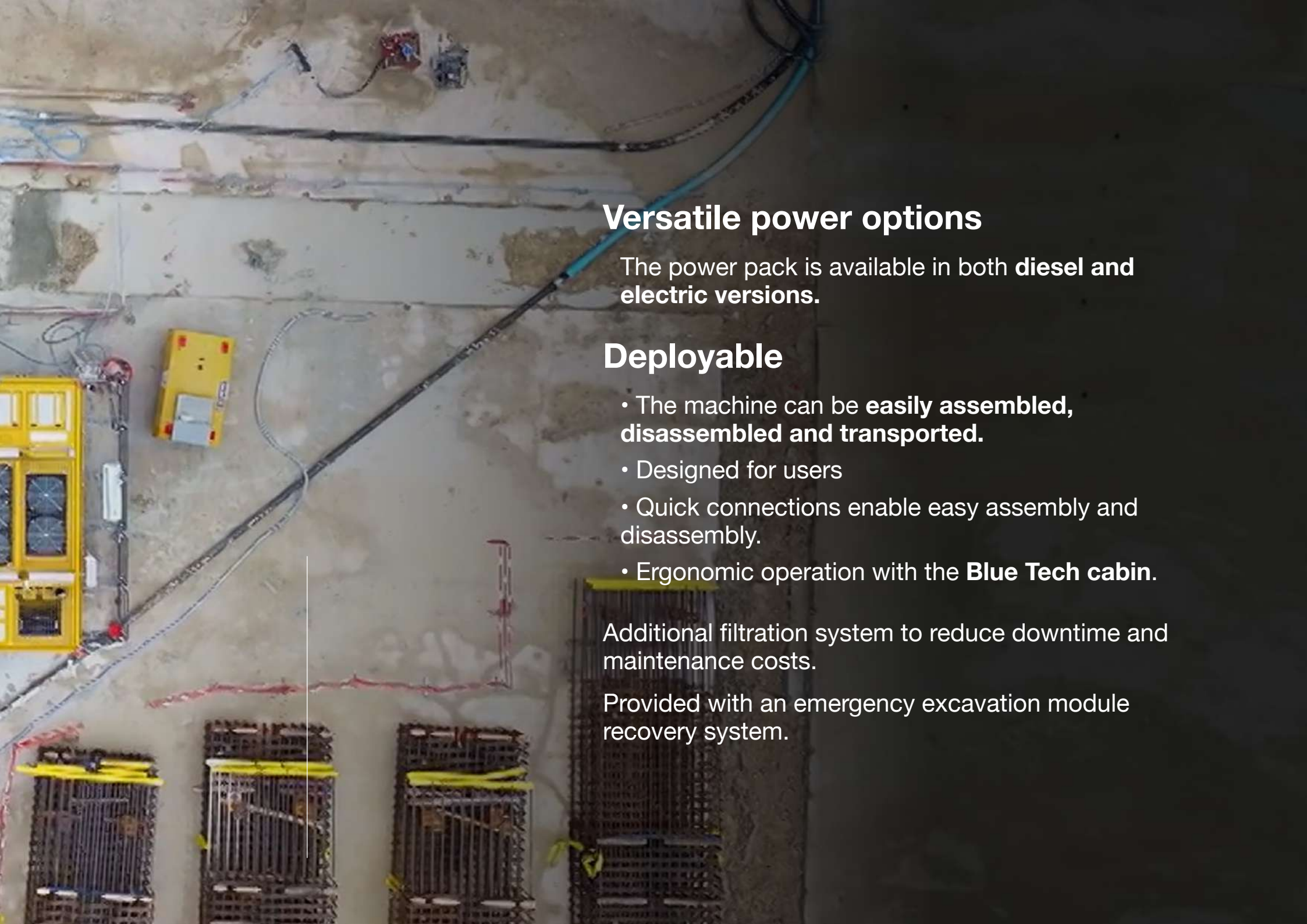
Flexible

- High versatility to meet the construction site layout.
- The **power pack** can be **positioned laterally, on the rear, or on the ground.**

Modular

Innovative design for **easy conversion** from standard to low headroom configuration: **two machines in one.**





Versatile power options

The power pack is available in both **diesel and electric versions.**

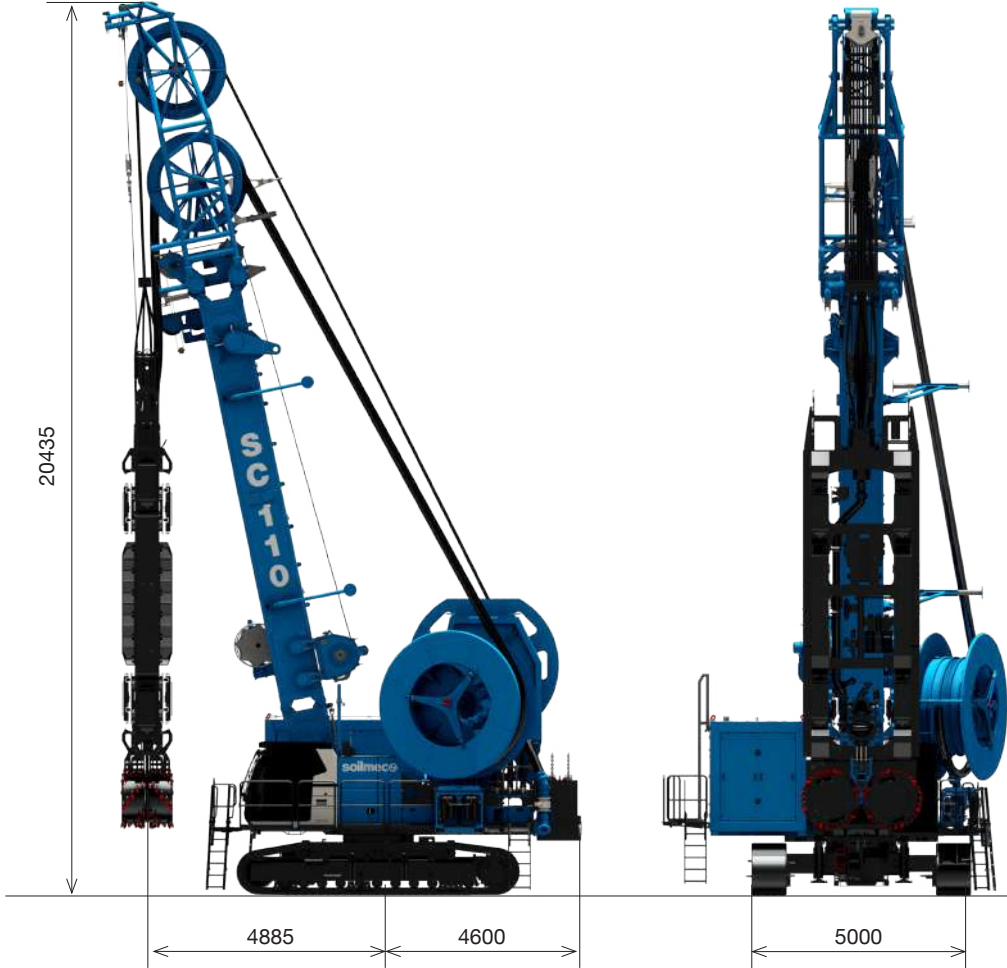
Deployable

- The machine can be **easily assembled, disassembled and transported.**
- Designed for users
- Quick connections enable easy assembly and disassembly.
- Ergonomic operation with the **Blue Tech cabin.**

Additional filtration system to reduce downtime and maintenance costs.

Provided with an emergency excavation module recovery system.

SC-110 Urban



SC-110 “Urban”

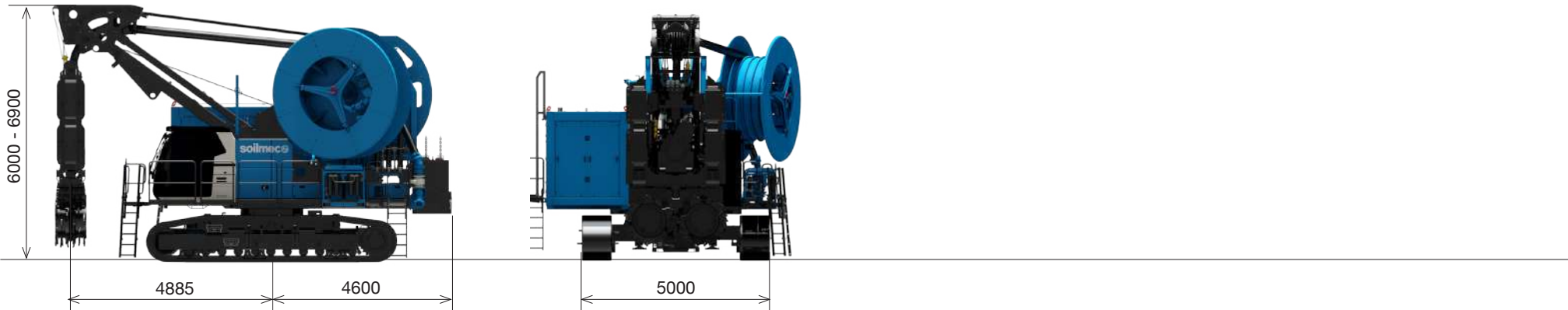
Operating weight	172000 kg	379195 lb
Working radius	4500/6000 mm	177/236 in
Working height *	20435 mm	805 in
Max depth	80 m	262 ft
Module rotation	- 45° / + 90°	- 45° / + 90°
Module weight range	30000 ÷ 40000 kg	66139 ÷ 88185 lb
Hydromill module	SH-35	SH-35
Trench thickness	650/1500 mm	26/59 in
Trench width	2800/3200 mm	110/126 in
Max mud pump flow	450 m³/h	15891 ft³/h

* LHR version min. height 6000 mm (236 in) with special low-height cutting motors

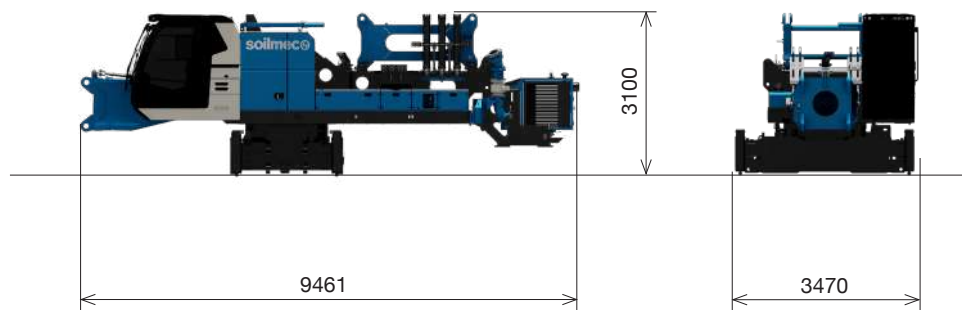
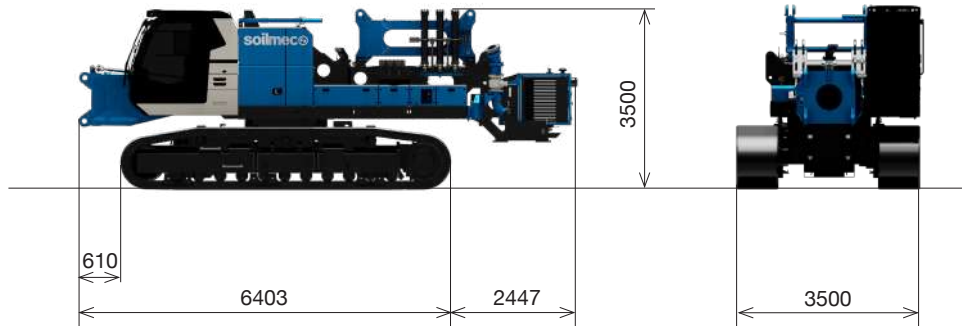
SC-110 Urban - LHR

SC-110 “Urban” - Low Headroom		
Operating weight	150000 kg	330693 lb
Working radius	5980/6545 mm	235/258 in
Working height *	6200/6900 mm	244/272 in
Max depth	80 m	262 ft
Module rotation	± 90°	± 90°
Module weight range	20000 ÷ 30000 kg	44092 ÷ 66139 lb
Hydromill module	SH-25	SH-25
Trench thickness	650/1500 mm	26/59 in
Trench width	2800 mm	110 in
Max mud pump flow	450 m3/h	15891 ft³/h

* LHR version min. height 6000 mm (236 in) with special low-height cutting motors



Transport



Transport

Weight with crawlers *	51900 kg	114420 lb
Weight w/o cralers and reel supports *	32300 kg	71209 lb
Transport width	3500 mm	137.8 in
Transport height	3500 mm	137.8 in
Transport height w/o crawlers	3165 mm	124.6 in
Length (with / w/o PPA)	9461 / 7932 mm	372 / 312 in

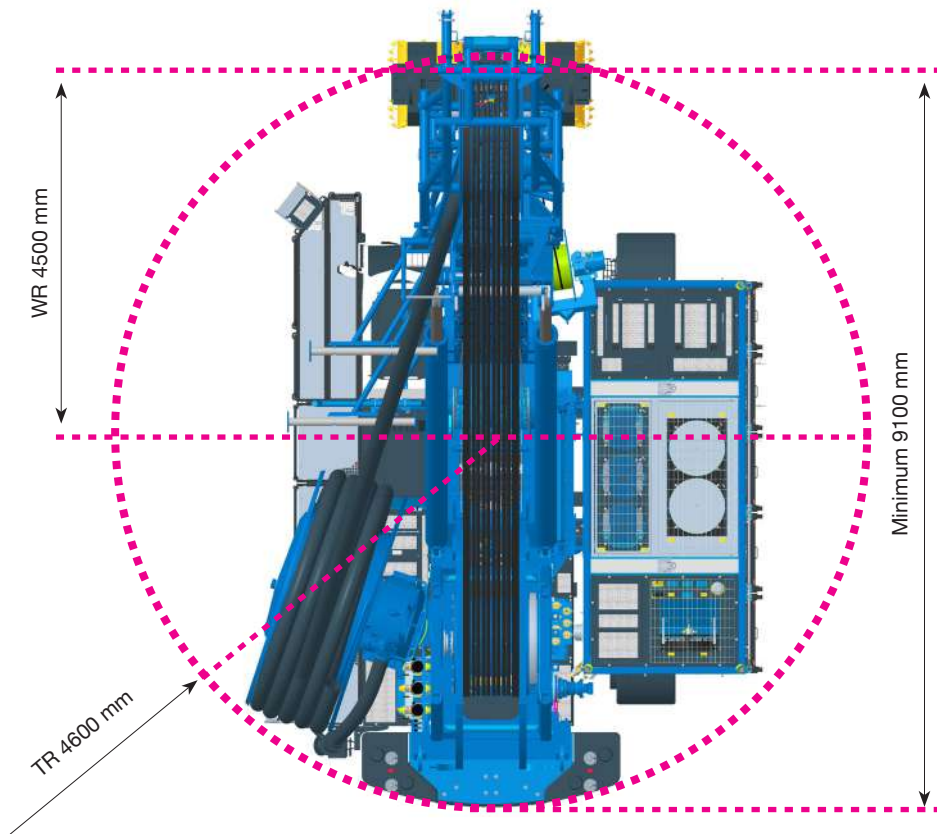
* Includes PPA - Auxiliary power pack for Transport

Transport

Drum for hydraulic hoses weight	17000 kg	37479 lb
Drum for mud hose weight	13600 kg	29983 lb
Crawler side	10000 kg	22046 lb
Containerized power-pack	15000 kg	33069 lb
Counterweight - base element	12000 kg	26455 lb
Counterweight - single element	1350 kg	2976 lb
PPA - Auxiliary power pack	2500 kg	5512 lb

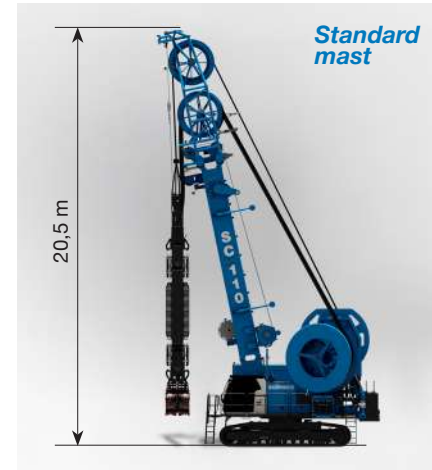
Compact Design

Ideally suited for construction sites with limited space and metropolitan areas with strict noise requirements.



Modularity

Two machines in one! Easy conversion from standard to low head-room configuration.



Maximum flexibility

Developed to perfectly suit any construction site layout.



Remotely Connected
on the ground



Side Mounted



Rear Mounted

Technical data

Undercarriage

Undercarriage designed for heavy duty applications. Fixed gauge type with removable sides.

Undercarriage		
Type	variable gauge, removable sides frames	
Overall width - <i>retracted crawlers</i>	3500 mm	138 in
Overall width - <i>extended crawlers</i>	5000 mm	197 in
Track shoes width	800 mm	31 in
Overall length of crawlers	6403 mm	252 in
Traction force	744 kN	167255 lbf
Travelling speed	1,6 km/h	1.0 mph

The turret design allows to install the power pack on the right side, on the back side or directly on the ground.

Turret		
Turret width	3500 mm	138 in
Tail swing radius	8500 mm	335 in
Tail swing radius Compact version	6200 mm	244 in
Slewing speed	1,3 rpm	1.3 rpm
Counterweight	17000 kg	37478 lb

Engine

Power Pack		
Engine model	CAT C18	
Power rating	563 kW @ 1800 rpm	754 HP @ 1800 rpm
Engine conforms to Exh. emission Std. *	EU stage V US EPA Tier 4f	
Fuel tank capacity	1100 l	291 US gal
AD Blue tank capacity	57 l	15 US gal
Sound pressure level in cab	68 dB(A)	77 dB(A)
Sound power level	107 dB(A)	107 dB(A)

Available: electric version 500 kW (670 HP)

Electric & Hydraulic system

Electric & hydraulic systems		
Main pumps flow	2 x 420 / 315 l/min	2 X 111 / 83 US gal/min
Aux. pump flow - <i>variable axial type</i>	2 x 61 l/min	2 x 16 US gal/min
Aux. pumps flow - <i>gear type</i>	72 / 14 / 40 / 56 / 46 / 72 / 114 l/min	19 / 4 / 11 / 15 / 16 / 19 / 30 US gal/min
Hydraulic oil tank capacity	1250 l	330 US gal

Winches

Winch		
Rope layers	4	4
Rope diameter	22 mm	0,9 in
Line pull (1° layer)	300 kN	67442 lbf
Line speed (1° layer) - Hydromill use	16 m/min	52 ft/min
Max rope speed	32 m/min	105 ft/min

Boom

Boom		
Boom lenght	18635 mm	734 in
Boom length <i>min - max</i>	1000 x 1000 mm	39 - 39 in

Noise

Noise		
Sound pressure level in cab c/w Tier 4f Engine	76 dB(A)	76 dB(A)
Sound power level c/w Tier 4f Engine	111 dB(A)	111 dB(A)

Cab

Soilmec cab. By assessing the specific application and listening properly to the wishes and requirements of the operators, Soilmec provides the optimal operator cab for comfort. Ergonomic seat with air suspension, fully adjustable, lumbar support, air management, as well as lines of sight, quality and safety are standard aspects considered during the design of the right configuration for the cab.

- Cabin width	1050 mm	3.4 ft
- Sliding door		
- Courtesy lights		
- Air conditioning system and climate control unit		
- Radio player with USB aux port		

Controls

DMS control system, developed and manufactured by Soilmec - is designed to give you a total control over performance, production and all your duty cycle crawler cranes. In real time all the information relating to the operation work cycles and diagnostics of faults are shown on a multi language touch screen display installed in the cab.

All drilling operations are actuated by two innovative joysticks.

Configurations

UNDERCARRIAGE

Triple grouser track shoes	●
Tracks disassembly kit c/w wired remote control	○
Foldable steps to access/egress	●
Chain tensioning device	●
Stabilizers cylinders	●
Tracks transport frame	○
Radio remote control for loading and tramming operation	●
Transport kit without undercarriage side frames	○
Machine anchor points for transport	●

TURRET

Stackable counterweight self-mounting capability	●
Removable catwalk 900 mm (35.4 in) wide c/w handrails	●
Foldable catwalk 900 mm (35.4 in) wide c/w handrails	○
Sound proofed canopies	●
Stack light kit (when machine is active)	○
Support for tools, air compressor & high pressure water pump	●
Air compressor kit	○
High pressure water pump kit	○
360° access with 2 ladders	●
Lighting led system package	●
3 tracks roller Slew bearing type	●
Acoustic alarm for tramming - White sound	●
Automatic greasing kit	●

POWER PACK

Auto low idle system	●
Diesel engine CAT C18 ACERT - EU Stage 0 – US EPA Tier 2 / Power rating 570 kW (764 HP) @ 1800 rpm	○
Radiators fan independent control system	●
Removable catwalk 900 mm (35.4 in) wide c/w handrails & ladder	●

Foldable catwalk 900 mm (35.4 in) wide c/w handrails & ladder	○
Anchoring points for walkable roof	●
PPA - Auxiliary power pack for Transport	●
Electric motor 500 kW (680 HP) powered by external network 690 VAC	○

ELECTRIC & HYDRAULIC SYSTEM

Electro-proportional system	●
Additional filters on return line	●
Hydraulic oil filtering external group complete with oil contamination indicator	○
Oil heater kit for low temperature	○
Harness technology for electrical system	●
Drain oil flow-meter	○
Soilmec 2.0 electrical system	●

BT-CAB

Sliding door	●
Sliding window	○
Ergonomic seat with air suspension, fully adjustable, lumbar support	●
Courtesy lights	●
Lower front protective grille	○
Lighting system in front of the cab	●
Wireless phone charger	○
CCTV camera set with a dedicated 7" display	●
Air conditioning system and climate control unit	●
Helmet and jacket compartment	●
Radio player with USB aux port	●
Front protective grille	●
Falling object protective structure (FOPS)	●
Windscreen wiper	●
Cup holders	●

Glove boxes	●
Rearview mirrors	●
Roll-up awning	●

WINCH

SW300 controlled descent type, c/w depthmeter	●
Load cell for main winch	○
Grooved double drums	●
Rope assembly winch	○
Depthmeter device on main winch	●
Limit switch for rope winding and winches	●

BOOM

Main boom square section	●
Safety line on the boom and base boom ladder	○
Kinematic mechanism by hydraulic cylinders	●
Boom angle available on display	●
Working radius available on display	●
Max handling load available on display	●
Current handling load available on display	●

CUTTING GROUP

Assembly mode for rigging/de-rigging	●
Remote control board for teeth changing	●
Hose set - hydraulic and mud	●

● standard

○ optional



www.soilmec.it

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

#muddyboots