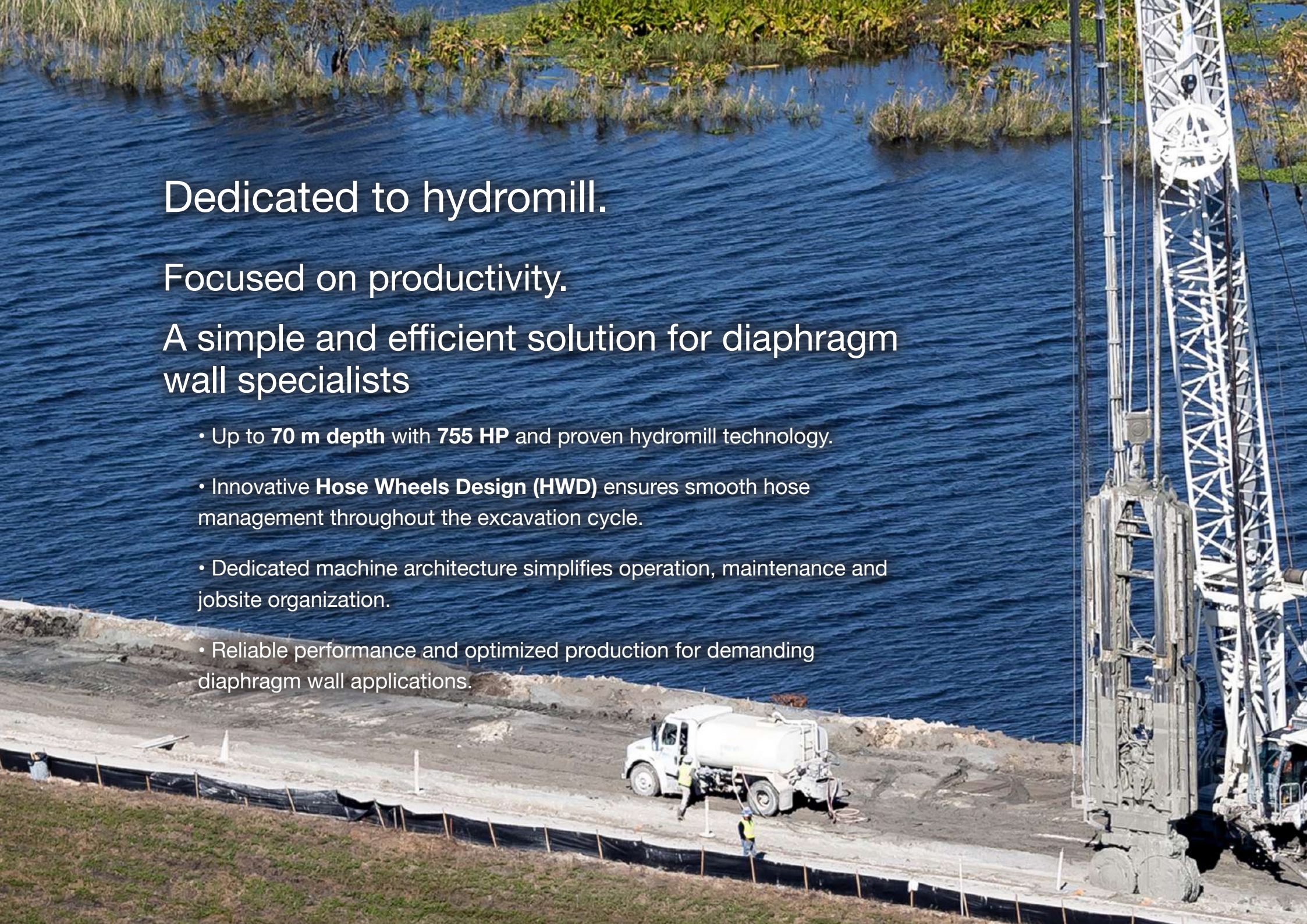




SC-130 Cougar

soilmec®

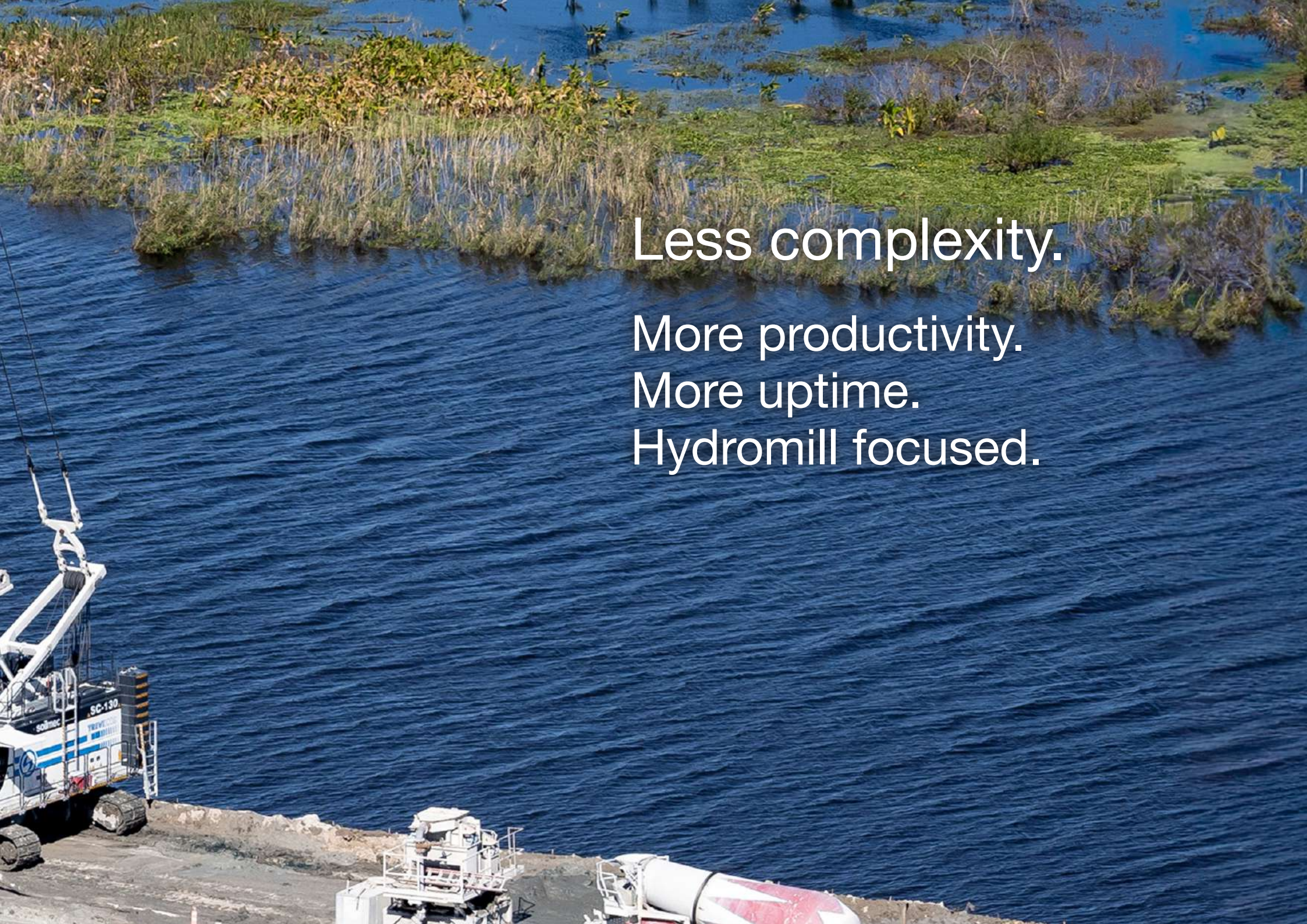


Dedicated to hydromill.

Focused on productivity.

A simple and efficient solution for diaphragm wall specialists

- Up to **70 m depth** with **755 HP** and proven hydromill technology.
- Innovative **Hose Wheels Design (HWD)** ensures smooth hose management throughout the excavation cycle.
- Dedicated machine architecture simplifies operation, maintenance and jobsite organization.
- Reliable performance and optimized production for demanding diaphragm wall applications.

An aerial photograph showing a large body of dark blue water. In the foreground, a construction site is visible with a white and blue tracked vehicle on the left, labeled 'SC-130' and 'solmec'. To its right is a concrete pump truck with a white and red rotating drum. Further back, there's a small structure on a pile of material. The background features a marshy area with green and brown vegetation. Overlaid on the right side of the image is white text.

Less complexity.

More productivity.

More uptime.

Hydromill focused.

Designed to keep excavating.

Engineered for reliability.

- Dedicated contamination protection systems help extend component life and reduce maintenance requirements.
- Reliable hydraulic and cooling systems support consistent performance throughout the work cycle.
- Advanced safety solutions simplify assembly, maintenance and daily operations.
- Developed from extensive field experience in diaphragm wall applications.





Dedicated technology.

More control.

Reliable production.

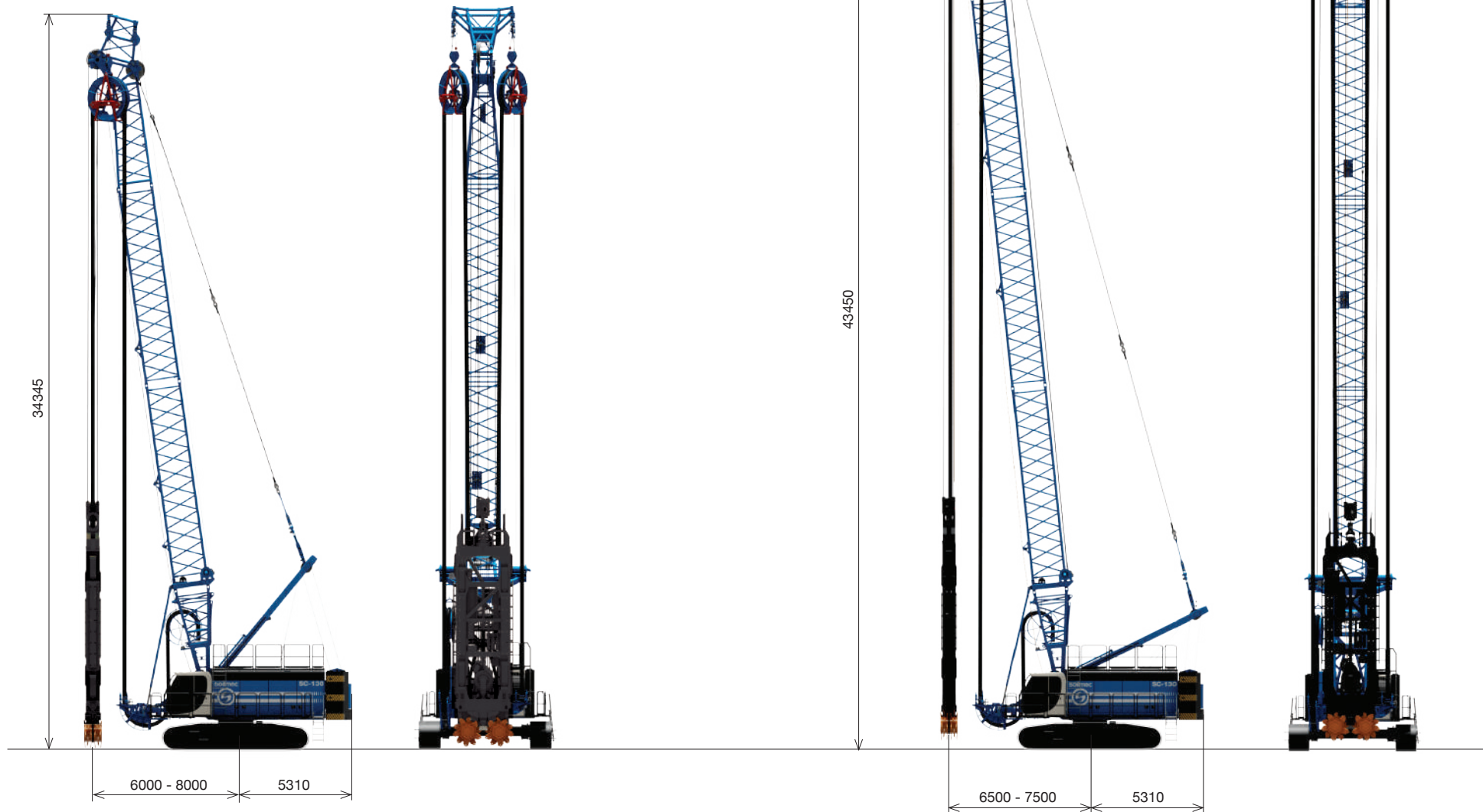
Proven results.

- Soilmec DMS provides real-time monitoring of production and excavation parameters.
- Continuous tracking of machine performance and excavation quality.
- Accurate control of panel geometry and positioning.
- Designed to maximize machine utilization on site.

SC-130 Cougar

Standard version

Extended version



Drawing are not to scale All technical data are purely indicative and subject to change without notice

SC-130 “Cougar” - standard version		
Operating weight	172000 kg	379195 lb
Working radius	6000/8000 mm	236/315 in
Max depth	52 m	171 ft
Module rotation	- 4° / + 50°	- 4° / + 50°
Max module weight	46000 kg	101413 lb
Hydromill module	SH-35 / SH-40	SH-35 / SH-40
Tench width	650/1500 mm	26/59 in
Trench length	2800/3200 mm	110/126 in
Max mud pump flow	450 m³/h	15891 ft³/h

SC-130 “Cougar” - extended version		
Operating weight	180000 kg	396832 lb
Working radius	6500/7500 mm	256/295 in
Max depth	70 m	230 ft
Module rotation	- 4° / + 50°	- 4° / + 50°
Max module weight	46000 kg	101413 lb
Hydromill module	SH-35 / SH-40	SH-35 / SH-40
Tench width	650/1500 mm	26/59 in
Trench length	2800/3200 mm	110/126 in
Max mud pump flow	450 m³/h	15891 ft³/h

Transport

Dimensions and Weights

Boom transport

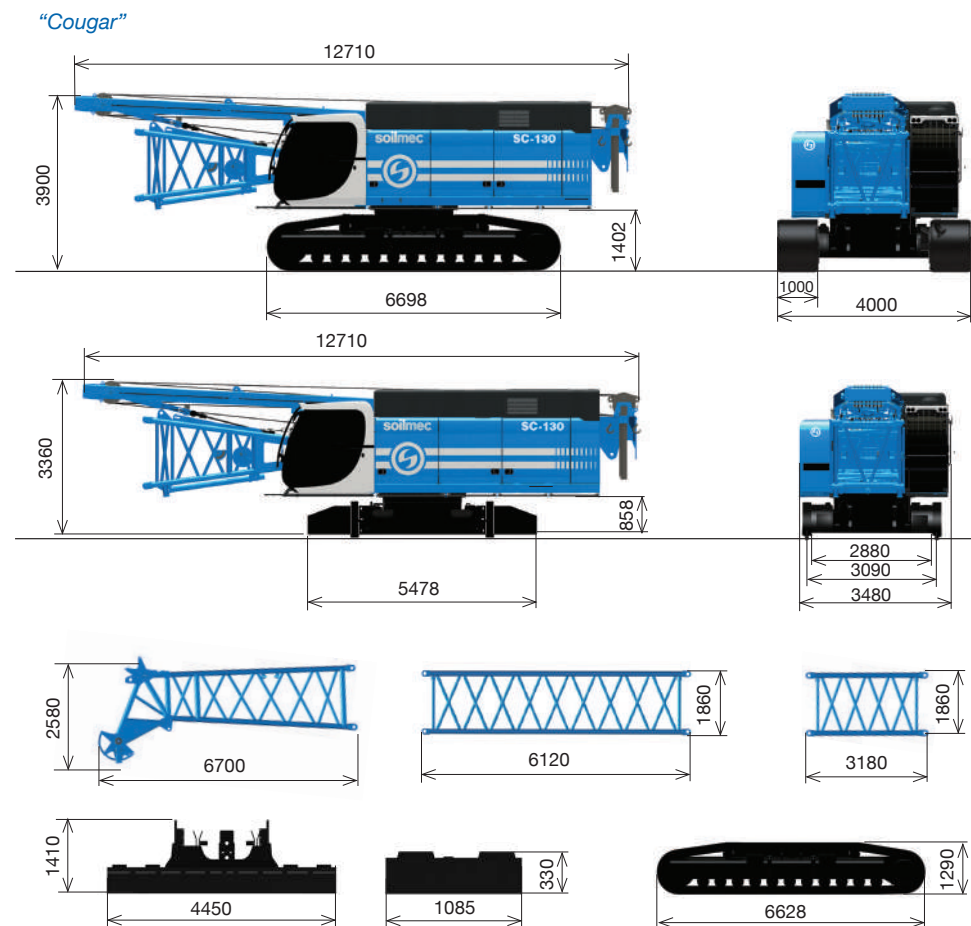
Width x height	1685 mm	66 in
Weight - 3 m (10 ft)	1000 kg	2205 lb
Weight - 6 m (20 ft)	1600 kg	3527 lb
Weight - 9 m (30 ft)	2200 kg	4860 lb

Counterweight transport

Base width	1190 mm	46.9 in
Base weight	17000 kg	37479 lb
Block width	1040 mm	41 in
Block weight	1550 kg	3417 lb

Sideframe transport

Weight	14000 kg	30865 lb
Width	1000 mm	39 in



Cougar

Cathead		
Dimension	3550 x 2410 x 1815 mm	140 x 95 x 71 in
Weight	1800 kg	3968 lb
Boom tip		
Dimension	6000 x 2700 x 1650 mm	236 x 106 x 65 in
Weight	3600 kg	7937 lb
Hose guide wheels		
Dimension	2870 x 2050 x 700 mm	113 x 81 x 28 in
Weight	690 kg	1521 lb
Tensioning winch support frame		
Dimension	4240 x 1960 x 1100 mm	167 x 77 x 43 in
Weight	2700 kg	5952 lb
Housing for hydraulic hoses		
Dimension	3000 x 670 x 1230 mm	118 x 26 x 48 in
Weight	500 kg	1102 lb
Block		
Dimension	1865 x 825 x 440 mm	73 x 32 x 17 in
Weight	800 kg	1764 lb

Technical data

Undercarriage



Undercarriage designed for heavy duty applications. Variable gauge type *

Undercarriage		
Overall width	variable gauge type	
Track shoes width	6000 mm	236 in
Overall length of crawlers	1000 mm	39 in
Traction force	6700 mm	264 in
Travelling speed	722 kN	162309 lbf
Travelling speed	1,6 km/h	1 mph

* Fixed gauge type with removable sides on demand. All weights to be reduced by 2,000 kg (4.409 lb).

Turret



The turret design allows to install the hose reels on top.

Turret		
Turret width	3500 mm	138 in
Tail swing radius	5310 mm	209 in
Slewing speed	1,7 / 2,5 rpm	1.7 / 2.5 rpm
Counterweight	35800 kg	78925 lb
Additional counterweight	6200 kg	13669 lb

Engine



Engine		
Model	CAT C18	
Power rating	563 kW @ 1800 rpm	754 HP @ 1800 rpm
Engine conforms to Exh. emission Standard *	EU Stage V / US EPA Tier 4f	
Fuel tank capacity	1100 l	291 US gal

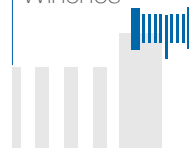
* Available: EU Stage IIIA - US EPA Tier 2 version

Electric & Hydraulic system



Electric & hydraulic systems		
Main pumps flow (tramming + main winch + cutter)	2 x 434 l/min	2 x 115 US gal/min
Main pumps flow (mup pump)	326 l/min	86 US gal/min
Auxiliary pump flow	90 l/min	24 US gal/min
Auxiliary pump flow	135 l/min	36 US gal/min
Auxiliary pump flow	2 x 101 l/min	2 x 27 US gal/min
Hydraulic oil tank capacity	1250 l	330 US gal

Winches



Main winch		
Rope layers	3	3
Rope diameter	36 mm	1.4 in
Line pull (1° layer)	350 kN	78682 lbf
Line speed (1° layer)	64 m/min	210 ft/min

Boom



Boom		
Boom length (Hydromill)	29,5 m	97 ft
Boom length (Grab)	38,5 m	126 ft
Boom section	1500 x 1500 mm	59 - 59 in

Noise



Noise		
Sound pressure level in cab c/w Tier 4f Engine	74 dB(A)	74 dB(A)
Sound power level c/w Tier 4f Engine	108 dB(A)	108 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 shoe		●	Auto low idle system		●
Tracks disassembly kit c/w wired remote control		○	Radiators fan independent control system		●
Foldable steps to access/egress		●	Anchoring points for walkable roof		●
Tracks transport frame		○	Electro-proportional system		●
Cross-tracks foldable steps		●	Hydraulic oil filtering external group complete with oil contamination indicator		○
Extension plates groups for undercarriage stabilizers		○	Additional filters on return line		●
Chain tensioning device		●	Harness technology for electrical system		●
Flat track shoe		○	Oil heater kit for low temperature		○
Stabilizers cylinders		●	Soilmec 2.0 electrical system		●
Self-lifting kit for variable gauge undercarriage		○	Drain oil flow-meter		○
Radio remote control for loading and tramping operation		●	CAB		
Fixed gauge undercarriage		○	Sliding door		●
Variable gauge type		●	Sliding window		○
Extension kit for undercarriage fixed Gauge		○	Ergonomic seat with air suspension, fully adjustable, lumbar support		●
Machine anchor points for transport		●	Courtesy lights		●
TURRET			Lower front protective grille		○
Stackable counterweight self-mounting capability		●	Lighting system in front of the cab		●
Foldable catwalk 900 mm (35.4 in) wide c/w handrails		○	Wireless phone charger		○
Removable catwalk 900 mm (35.4 in) wide c/w handrails		●	CCTV camera set with a dedicated 7" display		●
Stack light kit (when machine is active)		○	Air conditioning system and climate control unit		●
Sound proofed canopies		●	Helmet and jacket compartment		●
Air compressor kit		○	Radio player with USB aux port		●
Support for tools, air compressor & high pressure water pump		●	Front protective grille		●
High pressure water pump kit		○	Falling object protective structure (FOPS)		●
360° access with 2 ladders for upper structure		●	Windscreen wiper		●
Lighting led system package		●	Cup holders		●
3 tracks roller Slew bearing type		●	Glove boxes		●
Service winch for assembling operation		○	Rearview mirrors		●
Acoustic alarm for tramping - White sound		●	Roll-up awning		●
Diesel engine CAT C27 Stage V		●	WINCH		
Automatic greasing kit		●	SW350 controlled descent type, c/w depthmeter		●
Diesel engine CAT C27 Tier 3		○	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		●
			TECHNOLOGY GROUP		
			Assembly mode for rigging/de-rigging		●
			Remote control board for teeth changing		●
			Hose set (hydraulic and mud) for 70 m (230 ft) depth		○
			Warning alarm in case of hydraulic oil contamination		●
			Control board for rope changing		●
			Automatic greasing		○
			High pressure filters		●
			Hydromill module hydraulic drain		○
			Drain tank with hydro-clean micro filtration and water separation		●
			Mud flow-meter		○
			Hose set (hydraulic and mud) for 80 m depth		●
			Hydraulic hoses and mud hose layout for module rotation		●
			Depthmeter		●
			Manual greasing		●

● standard

○ optional



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