



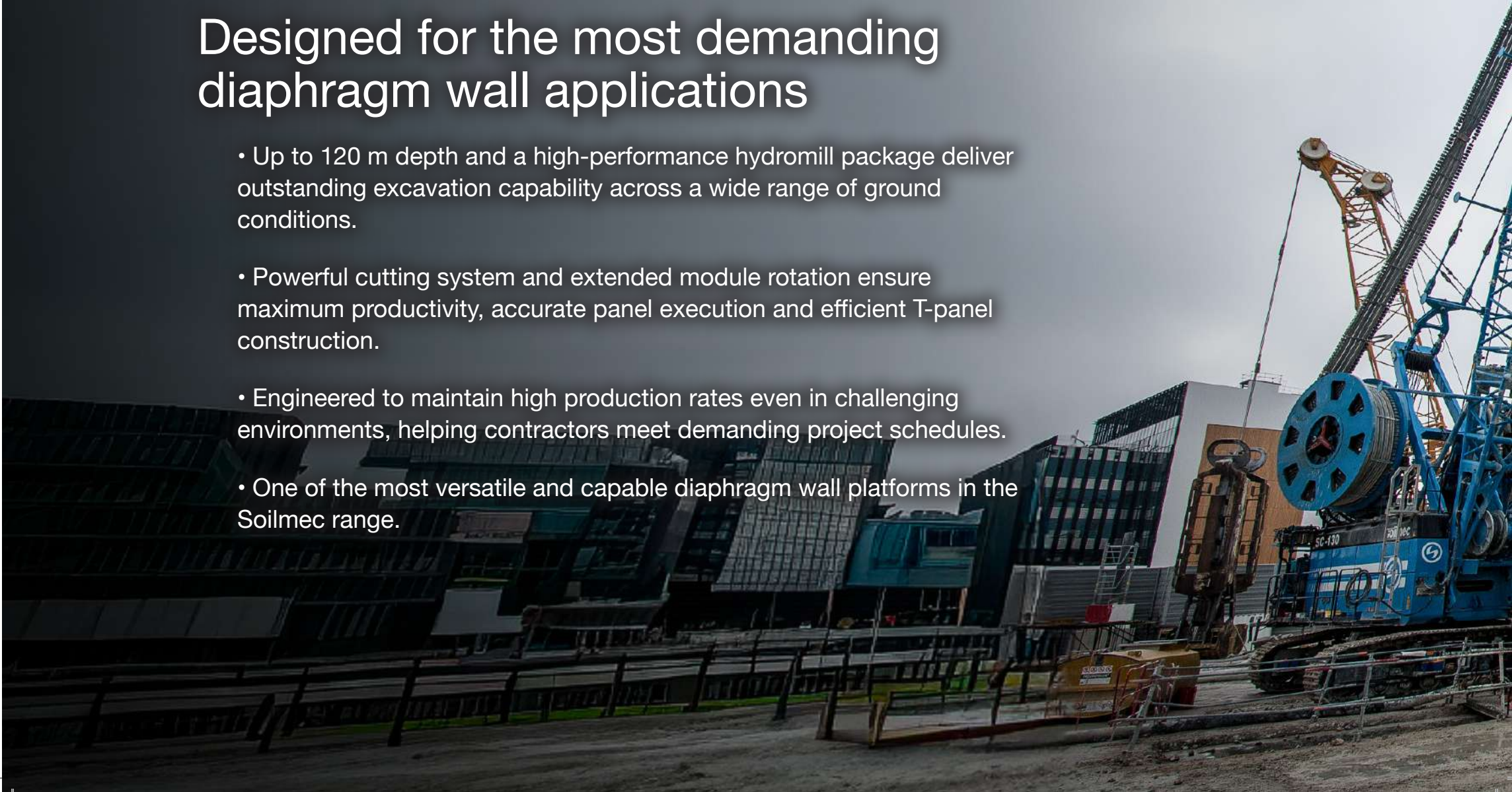
SC-130 Tiger

soilmec®

Engineered to go further.

Designed for the most demanding diaphragm wall applications

- Up to 120 m depth and a high-performance hydromill package deliver outstanding excavation capability across a wide range of ground conditions.
- Powerful cutting system and extended module rotation ensure maximum productivity, accurate panel execution and efficient T-panel construction.
- Engineered to maintain high production rates even in challenging environments, helping contractors meet demanding project schedules.
- One of the most versatile and capable diaphragm wall platforms in the Soilmec range.



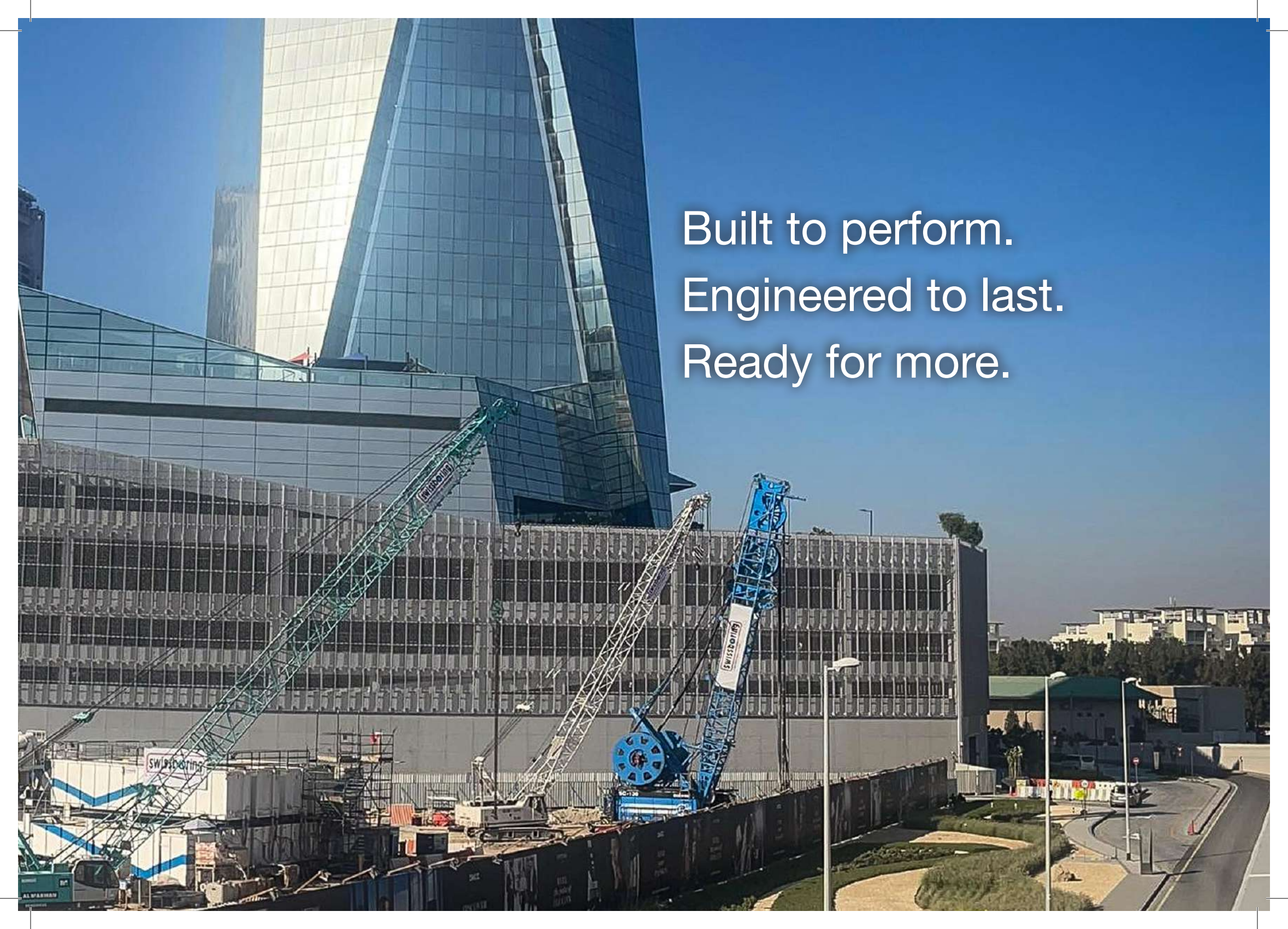
Maximum performance.
Maximum productivity.
Maximum capability.





Built for uptime. Designed for the jobsite.

- Advanced contamination protection systems help preserve hydraulic efficiency and reduce downtime risks.
- Optimized hydraulic, cooling and electrical layouts ensure reliability, simplified maintenance and continuous operation.
- Designed to perform at full potential even in high ambient temperatures and demanding operating conditions.
- DMS technology provides complete control of machine performance and excavation parameters in real time.

A photograph of a modern skyscraper under construction. The building features a glass facade and a distinctive, tapering design. In the foreground, two large cranes are visible, one green and one blue, both with "SWISSPORT" branding. The construction site is surrounded by various materials and equipment. The sky is clear and blue.

Built to perform.
Engineered to last.
Ready for more.

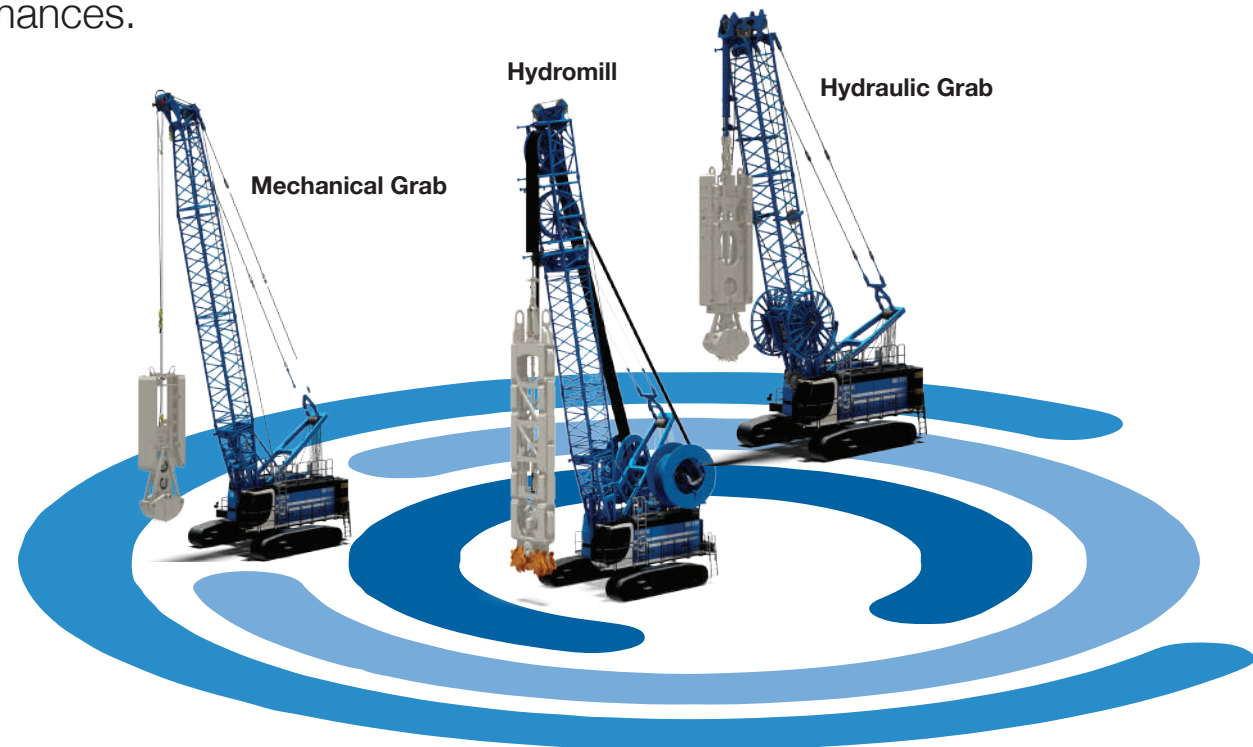
SC-130 Tiger - multipurpose

With the aim of meeting the need for increased diaphragm wall depth in the most challenging soil conditions, Soilmec has designed the “HDD” (Hose Drums Design) hydromill configuration.

Hydraulic and mud winders are positioned on a base carrier, allowing high depth drilling performances.

Multipurpose diaphragm wall equipment.

The SC-130 can be equipped in three different versions:
Hydromill, Hydraulic Grab
or **Mechanical Grab**



SC-130 Tiger



Hydromill

Operating weight	184000 kg	405650 lb
Working radius	5900/6600 mm	232/260 in
Max depth	80 m	262 ft
Max depth (special version)	120 m	394 ft
Module rotation	- 4° / + 93°	- 4° / + 93°
Max module weight	53000 kg	116845 lb
Hydromill module	SH-35 / SH-40	SH-35 / SH-40
Trench 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

Grab

Operating weight	130000 kg	286601 lb
Max capacity duty cycle operation	53000 kg	116845 lb
Max grab weight	35000 kg	77162 lb
Boom length	11/35 m	36/115 ft
Min working radius	3800 mm	150 in

Transport

Dimensions and Weights

Base machine (SC-39 VW undercarriage) c/w crawlers		
Weight "Cougar" / "Tiger"	85500 / 88000 kg	188470 / 194006 lb
Width	4000 mm	157 in
Height "Cougar" / "Tiger"	3900 mm	153.54 in
Length	12710 mm	500.39 in

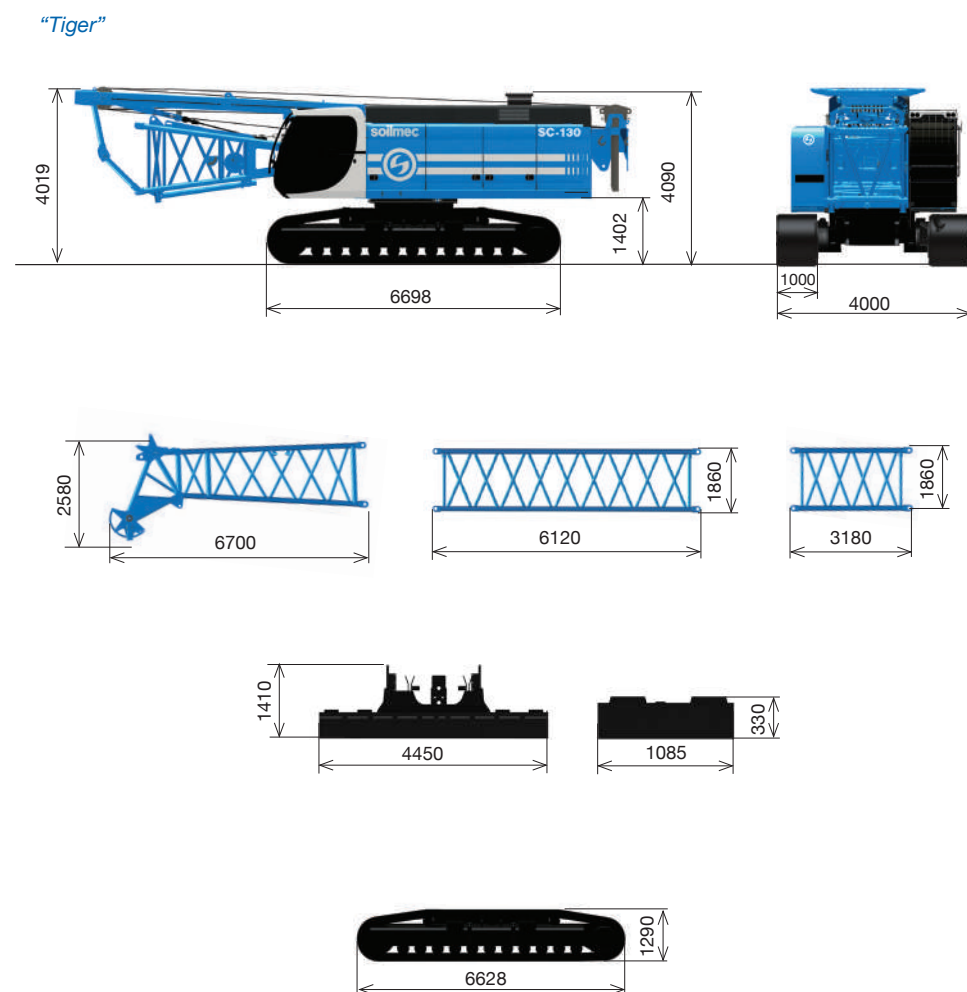
Base machine (SC-39 VW undercarriage) w/o crawlers		
Weight	55000 kg	121254 lb
Width	3480 mm	137 in
Height	3320 mm	130.7 in
Length	12710 mm	500.4 in

Base machine (SC-37 FW undercarriage) w/o crawlers		
Weight	56700 kg	125002 lb
Width	3480 mm	137 in
Height	3360 mm	132.3 in
Length	12710 mm	500.4 in

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

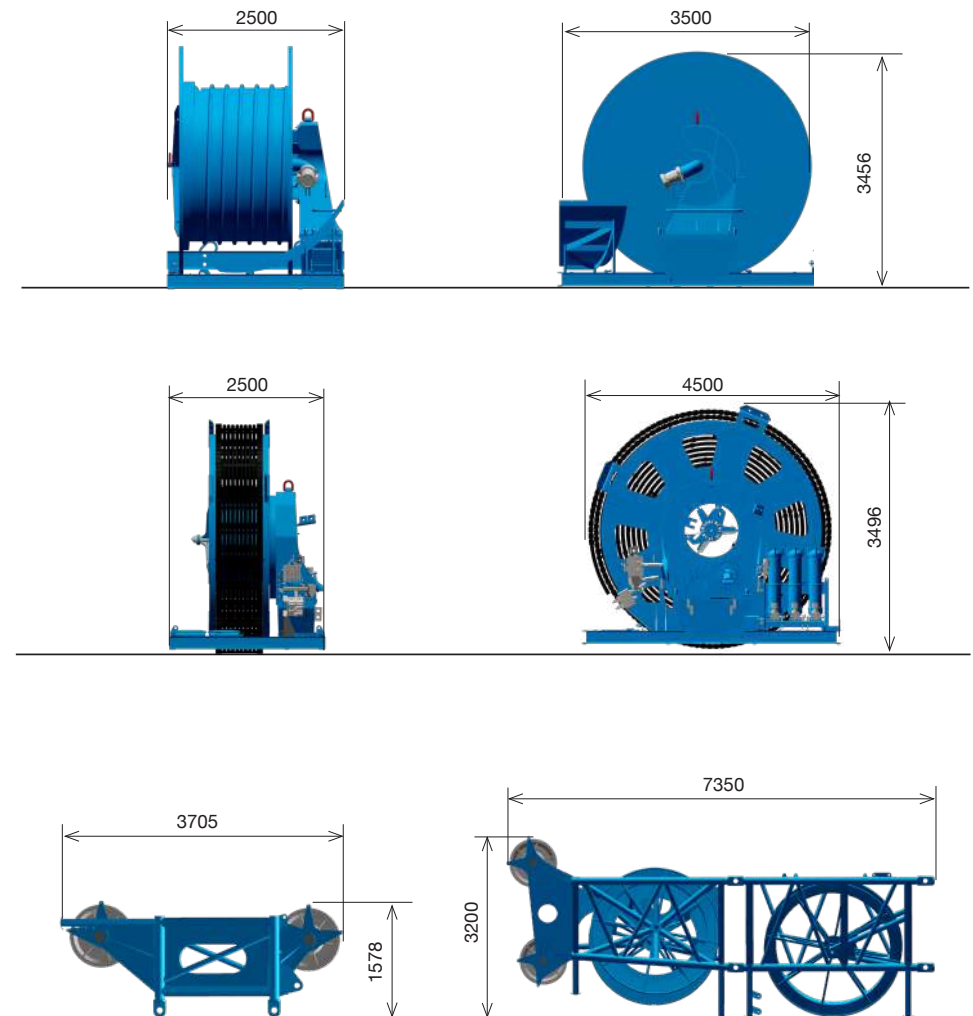
Counterweight transport		
Base width	1190 mm	46.9 in
Base weight	17000 kg	37479 lb
Block width	1040 mm	41 in
Block weight	1550 kg	3417 lb

Sideframe transport		
Weight	14000 kg	30865 lb
Width	1000 mm	39 in



Cathead		
Dimension	3705 x 2155 x 1578 mm	146 x 85 x 62 in
Weight	2300 kg	5071 lb
Hydraulic hoses drum		
Dimension	4500 x 3496 x 2500 mm	177 x 138 x 98 in
Weight	16000 ÷ 21000* kg	35274 ÷ 46297* lb
Mud hose drum		
Dimension	3500 x 3456 x 2500 mm	138 x 136 x 98 in
Weight	11000 ÷ 11500 *kg	22046 ÷ 25353* lb
Cathead for mud hose		
Dimension	3390 x 3468 x 2500 mm	133 x 137 x 98 in
Weight	2000 kg	4409 lb
Cathead for hydraulic hoses		
Dimension	4062 x 3188 x 2150 mm	160 x 126 x 85 in
Weight	2700 kg	5952 lb

* for 120 m depth version



Technical data

Undercarriage

Undercarriage designed for heavy duty applications. Variable gauge type *

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

* Fixed gauge type with removable sides on demand.

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

Turret

Turret		
Turret width	3500 mm	138 in
Tail swing radius	5310 mm	209 in
Slewing speed (Grab/Hydromill)	3,5 / 1 rpm	3.5 / 1 rpm
Counterweight (Grab/Hydromill)	35800 / 17000 kg	78925 / 37478 lb
Counterweight	6200 kg	13669 lb

Engine

Engine		
Model	CAT C27	
Power rating	570 kW @ 1800 rpm	764 HP @ 1800 rpm
Engine conforms to Exh. emission Standard *	EU Stage V / US EPA Tier 4f	
Fuel tank capacity	1200 l	317 US gal

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

Electric & Hydraulic system

Electric & hydraulic systems		
Main pumps flow (tramming + cutter)	2 x 420 l/min	2 x 111 US gal/min
Main pumps flow (winches)	2 x 384 l/min	2 x 101 US gal/min
Auxiliary pump flow (mud pump)	315 l/min	83 US gal/min
Hydraulic oil tank capacity	3 l	1 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)	62 m/min	203 ft/min

Boom

Boom

Boom length (Hydromill)	22 m	72 ft
Boom length (Grab)	11 ÷ 35 m	36 ÷ 115 ft
Boom section	1500 x 1500 mm	59 - 59 in

Noise

Noise

Sound pressure level in cab c/w Tier 4f Engine	77 dB(A)	77 dB(A)
Sound power level c/w Tier 4f Engine	109 dB(A)	109 dB(A)

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		

Cab

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	●
Tracks disassembly kit c/w wired remote control	○
Foldable steps to access/egress	●
Tracks transport frame	○
Cross-tracks foldable steps	●
Extension plates groups for undercarriage stabilizers	○
Chain tensioning device	●
Flat track shoe	○
Stabilizers cylinders	●
Self-lifting kit for variable gauge undercarriage	○
Radio remote control for loading and tramming operation	●
Fixed gauge undercarriage	○
Variable gauge type	●
Extension kit for undercarriage fixed Gauge	○
Machine anchor points for transport	●
TURRET	
Stackable counterweight self-mounting capability	●
Foldable catwalk 900 mm (35.4 in) wide c/w handrails	○
Removable catwalk 900 mm (35.4 in) wide c/w handrails	●
Stack light kit (when machine is active)	○
Sound proofed canopies	●
Air compressor kit	○
Support for tools, air compressor & high pressure water pump	●
High pressure water pump kit	○
360° access with 2 ladders for upper structure	●
2° (Additional) Motoreducer for turret swing	○
Lighting led system package	●
3 tracks roller Slew bearing type	●
Service winch for assembling operation	○
Acoustic alarm for tramming - White sound	●
Diesel engine CAT C27 Stage V	●
Automatic greasing kit	●
Diesel engine CAT C27 Tier 3	○
CAB	
Auto low idle system	●
Radiators fan independent control system	●
Anchoring points for walkable roof	●
Electro-proportional system	●
Hydraulic oil filtering external group complete with oil contamination indicator	○
Additional filters on return line	●
Harness technology for electrical system	●
Oil heater kit for low temperature	○
Soilmec 2.0 electrical system	●
Drain oil flow-meter	○
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	
SW350 controlled descent type, c/w depthmeter	●
Load cell for main winch	○
Grooved double drums	●
Rope assembly winch	○
BOOM	
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	●
TECHNOLOGY GROUP	
Assembly mode for rigging/de-rigging	●
Remote control board for teeth changing	●
Hose set (hydraulic and mud) for 120 m depth	○
Warning alarm in case of hydraulic oil contamination	●
Hydraulic grab GH-15/GH-20	○
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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