



SR-45 MP version

soilmeco
Drilling and Foundation Equipment

SR-45

Micropile applications



Rod loader		
N. of rods	2	2
Rod diameters	90 - 200 mm	3.5 - 7.9 in
Rod length	12 - 14 m	39 - 46 ft

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

Technical Data

Undercarriage



Especially designed for heavy duty applications that require less penetration, better turning capability and less ground disturbance.
Maintenance-free crawler track. Hydraulic chain tensioning device.

Undercarriage		
Type	variable gauge, telescoping sides frames	
Overall width with retracted crawlers	2550 mm	100 in
Overall width with extended crawlers	3750 mm	148 in
Width of triple grouser track shoes	600 mm	24 in
Overall length of crawlers	4740 mm	187 in
Traction force	424 kN	95317 lbf
Travelling speed	1.9 km/h	1.2 mph

Engine



Engine		
Model	Cummins B6.7	Cummins B6.7
Rated output	209 kW @ 2000 rpm	280 HP @ 2000 rpm
Engine conforms to Exhaust emission Standard	EU stage V US EPA Tier4f *	
Fuel tank capacity	380 l	100 US gal
AD Blue tank capacity	57 l	15 US gal

* Cummins QSB.7 - Tier3 available on request

Hydraulic system



The cleaning of hydraulic oils is electronically monitored and any clogging is show to operator on DMS control system in the cab.

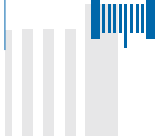
Hydraulic system		
Main pumps flow	2x 214 l/min	2x 57 US gal/min
Third pump flow	160 l/min	42 US gal/min
Hydraulic oil tank capacity	450 l	119 US gal

Crowd system



WCS Winch Crowd System		
Stroke	13750 mm	541 in
Crowd force pull (down/up)	237 / 237 kN	53279 / 53279 lbf
Speed (max/min)	26.7 / 0.1 m/min	88 / 0.3 ft/min

Winches



Main winch		
Type	controlled descent	controlled descent
Line pull (1st layer)	165 kN	37093 lbf
Rope diameter	24 mm	0.94 in
Line speed (max.)	78 m/min	256 ft/min
Auxiliary winch		
Type	controlled descent	controlled descent
Line pull (1st layer)	65 kN	14612 lbf
Rope diameter	18 mm	0.71 in
Line speed (max.)	81 m/min	266 ft/min

Rotary



Rotary	HT-3700	HT-3700
Gear box type	variable	variable
Max torque	3661 daNm	27002 lb*ft
Max drilling speed	122 rpm	122 rpm
Inner passage	144 mm	5.67 in

Clamp & breaker



Clamp & Hydraulic Joint Breaker		
Nominal size	50 - 315 mm	2.0 - 12.4 in
Nominal size (optional)	60 - 425 mm	2.4 - 16.7 in
Nominal size (optional)	60 - 620 mm	2.4 - 24.4 in
Maximum clamping force	266 kN	59798 lbf
Maximum breaking torque	7900 daNm	58266 lb*ft

Transport weight & dimensions

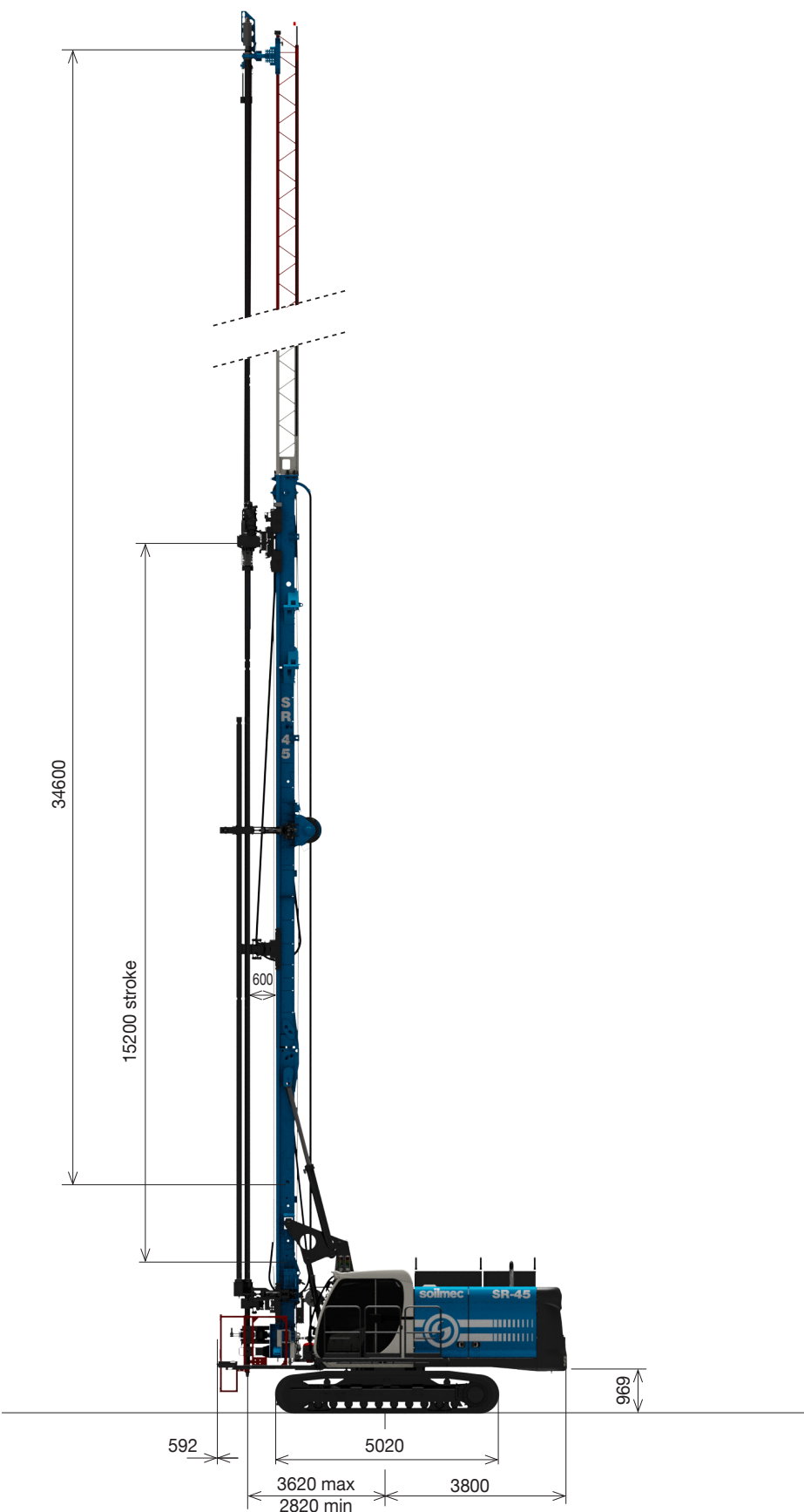
Transport in MP version		
Transport weight	39400 kg	86861 lb
Transport length	14895 mm	48.9 ft
Transport width	2550 mm	8.4 ft

Configurations

UNDERCARRIAGE		
Variable gauge, telescopic side frames		●
Upgraded undercarriage		●
700 mm (27.5 in) wide shoe		○
800 mm (31.5 in) wide shoe		○
Machine anchor points for transport		●
Radio remote control for tramming operation		●
UPPER STRUCTURE		
Diesel engine Cummins QSB 6.7		●
Diesel engine Cummins B 6.7 EU Stage V – US EPA Tier 4f		○
Start and slow system		○
Harness technology for electrical system		●
Automatic Greasing package		○
PTO kit for washing lancer		○
Prearrangement for Air compressor kit		○
Air compressor kit		○
Foalddable side catwalks for cabin with hand rails		●
Machine lifting kit (<i>harbor use</i>)		○
Acoustic & light alarm for tramming		●
Lighting led system package		●
Sound proofed canopies		●
Front support for tools		○
Additional counterweight 1000 kg (2204 lb)		○
CAB		
Front protective grille		●
Falling object protective structure (<i>FOPS</i>)		●
Rearview mirrors		●
Comfort packakge (cup holder, radio, A/C system, USB port & 12 V power socket, roll-up awning, courtesy lights)		●
Operator seat (air suspension, lumbar support, fully adjustable positioning, safety belt & operator presence micro-switch)		●
Lighting system in front of the cab		●
CONTROL AND MONITORING SYSTEM		
DMS ON BOARD 4.0 with technological package		●
DMS PC		●
DMS manager 4.0		●
GSM / GPRS / WIFI Modem		●
DMS ON BOARD adjustable monitor 12" touch screen		●
Video control by 4 cameras with display in the cab		●
WINCHES		
Main winch SW160 model		●
Load cell for main winch		○
Main & service winch pull instant value displayed on DMS On Board		○
Limit switch for rope winding and winches		●
Depthmeter for main winch		●
Anti-slack system for main winch		○
Service winch SW65 model		●
Load cell for service winch		●
MICROPILE		
Foam pump 30 l/min (8 US gal) complete with gauge pressure and safety valve		●
Kit slow rotation		●
Hydraulic safety cage kit driven		●
Floating system for rotary head		●
Rotary cradle with side shifting		●
Centering device		●
Hydraulic rod loader 2 rods		○
Third clamp assembly range 60-415 mm (2.4 - 16.3 in)		○
Control board on base frame for positioning		●
Full radio remote control		●
JET GROUTING		
Kit for single fluid		○
Kit for double fluid		○
Hydraulic chuck complete with gauge pressure and safety device		●
Wedge kit for hydraulic chuck		●
Centering device for rods		●
Cradle for swivel		●
Automatic clamp kit		●
Hydraulic prearrangement for JG		●

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Jet Grouting applications



Jet Grouting		
Max rod diameter	90 - 140 mm	3.5 - 5.5 in
Max treatment depth in a single passage	34.7 m	113 ft
Max treatment depth c/w road loader	58.7 - 62.7 m	192.6 - 205.7 ft

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Technical data sheet SR-45 MP - EN - GEOFLUID 10/2023



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