



# BC 100

Boxed Crawler 100 kN



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- Up to 130 kN pushing force depending on rig weight
- State-of-the-art operating system
- Different engine options available
- Low operational costs

The BC 100 series is a ballasted-track unit for efficient Cone Penetration Testing (CPT). This next generation CPT crawler is characterized by its compact design, low fuel consumption due to auto idle and low engine speeds and low ground pressure.

The CPT operations have come a long way from when cones were pushed manually into the soil and readings were written down on a piece of paper. The Royal Eijkelkamp BC 100 is a state-of-the-art CPT rig that contains everything to make the CPT operations easy and efficient under all terrain conditions.

The BC 100 unit is designed according to the latest technical standards. To comply with different emission regulations applicable worldwide it is powered by a Stage V, Tier 4F diesel engine. However, other engine options are also available, such as a CNG engine, a Hybrid engine (electric combined with diesel or CNG) and a Hydrogen engine.

All functions of the BC100 can be operated from a PLC touch screen with a manual override for several functions, while driving and levelling can be performed using a remote control system. The hydraulic system is load sense controlled and designed for minimal power requirements.

With the Boxed Crawler CPT100 high production rates can be achieved with the installed CPT pusher, all in a comfortable (heated and air-conditioned) working space.



# Technical specifications \*

BC 100	Metric	Imperial
Rig weight	11000 - 14000 kg	24250 -30864 lbs
Length	4300 mm	169 in
Width	2000 mm	79 in
Height	2800 mm	110 in
Lifting height (from ground level)	1150 mm (to load on truck without the use of a ramp)	45 in
Tramming speed (2-speed)	Low = 2.3 km/h High = 4.2 km/h	Low = 1.4 mph High = 2.6 mph
Tracks	Wheelbase 2,622 mm Track width 240 mm	Wheelbase 103.2 in Track width 9.4 in
Machine colour	Customer specific (standard red RAL 3011 with gray RAL 7021)	
Ambient temperature range working conditions	-15 ... +40 °C	5 ... 105 °F

Powerpack data	Metric	Imperial
Diesel engine**	Stage V/ tier 4F"	
Power	110 kW	148 HP
Diesel tank	156 l	41 gal
Ad Blue tank	19 l	5 gal
** Other type diesel engines, CNG engines, hybrid engines or hydrogen engines are available as an option.		

Hydraulics	Metric	Imperial
LS pump variable pump	208 l/min@1600 rpm	55 gal/min@1600 rpm
Hydraulic tank capacity	380 l	100 gal

Electronics / Software	Metric	Imperial
Machine voltage	24 V	24 V
Management system	Parker IQAN	

CPT	Metric	Imperial
Pushing force (depending on rig weight)	100 - 130 kN	10 - 13 tf (long)
Pulling force	250 kN	25 tf (long)
CPT stroke	1,250 mm	49 in
CPT Controls	Automatic with manual override	
Tube diameter range	36 ... 56 mm	1.4 ... 2.2 in
CPT clamp	Standard hydraulic clamp. Options: SonicCPT integrated in hydraulic clamp or mechanical Pitbull clamp instead of hydraulic clamp.	

\* All specifications are subject to change

## General information

CPT control and engine data on touchscreen panel
Radio remote control for driving and outrigger control (with auto-levelling)
Automatic engine speed control with auto idle function
Load-sensing hydraulic system
Electric facilities: several sockets in cabin: 230 V / 2,500 W (optional 110 V / 2,500 W)
Easy hydraulic power pack accessibility
Climate control for heating and cooling of cabin
Extendable roof with push-through hatch
CPT rod and casing rack
Work bench
Drawers
Optional air compressor

