

85t Long Reach Excavator (LRE) - CAT 385C L

High performance and rugged durability combine to maximise your productivity.

Our 85t CAT excavator is fitted with a bespoke long reach boom and stick. This machine is ideal for use in back-hoe dredge applications, revetment shaping, armour rock placement, underwater demolition and for clearing obstructions.

The integrated dig system allows the operator to track the bucket position in real time improving production, positioning and dredge levels making it ideal for trimming scour protection layers and stone foundation beds. A standard boom and stick are also available for shallow / onshore bulk excavation works.

Engine

The Cat® C18 engine has state-of-the-art ACERT® technology to meet U.S. EPA tier 3 emission regulations.

Engine model	Caterpillar C18 ATAAC
Net flywheel power	382 kW / 513 hp

Weights

Operating weight – long undercarriage	84,980 kg / 187,360 lb
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Dimensions

Tail swing radius	4590 mm / 15'1"
Length to centre of rollers*	5120 mm / 16'10"
Track length*	6360 mm / 20'10"
Ground clearance	850 mm / 33.5"
Cab height	3620 mm / 11'11"

* Long undercarriage

Drive

Maximum travel speed	4.4 kph / 2.8 mph
Maximum drawbar pull – long undercarriage	592 kN / 133,090 lb

Track

Standard w/long undercarriage	900 mm / 36 in
Optional for long undercarriage	750 mm / 30 in

Service refill capacities

Fuel tank capacity	1240 L / 327.6 gal
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Hydraulics

Proportional Priority Pressure Compensated (PPPC) system with state-of-the-art electronic control ensures hydraulic system efficiency and excellent productivity.

Operator station

An all-new cab provides improved visibility and comfort. The new monitor is a full-colour graphical display with enhanced functionality to provide simple, comprehensive machine interface.



Engine

Engine model	Caterpillar C18 ATAAC	
Net flywheel power	382 kW	513 hp
ISO 9249	382 kW	513 hp
SAE J1349	382 kW	513 hp
EEC 80/1269	382 kW	513 hp
Bore	145 mm	5.71 in
Stroke	171 mm	7.2 in
Displacement	18.1 L	1,106in ³

- The 385C L meets worldwide tier 3 emission requirements
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator
- No engine power derating required below 2300m (7,500 ft) altitude

Weights

Operating weight – long undercarriage	84,980 kg	187,360 lb
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- General purpose boom, R4.4 (14'5") stick, 1678 mm (66") bucket, and 900 mm (36") shoes.

Track

Standard w/long undercarriage	900 mm	36 in
Optional for long undercarriage	750 mm	30 in
Number of shoes each side – long undercarriage	51	
Number of track rollers each side – long undercarriage	9	
Number of carrier rollers each side	3	

Swing mechanism

Swing speed	6.5 RPM	
Swing torque	260 kN•m	191,914 lb ft

Drive

Maximum travel speed	4.4 kph	2.8 mph
Maximum drawbar pull – long undercarriage	592 kN	133,090 lb

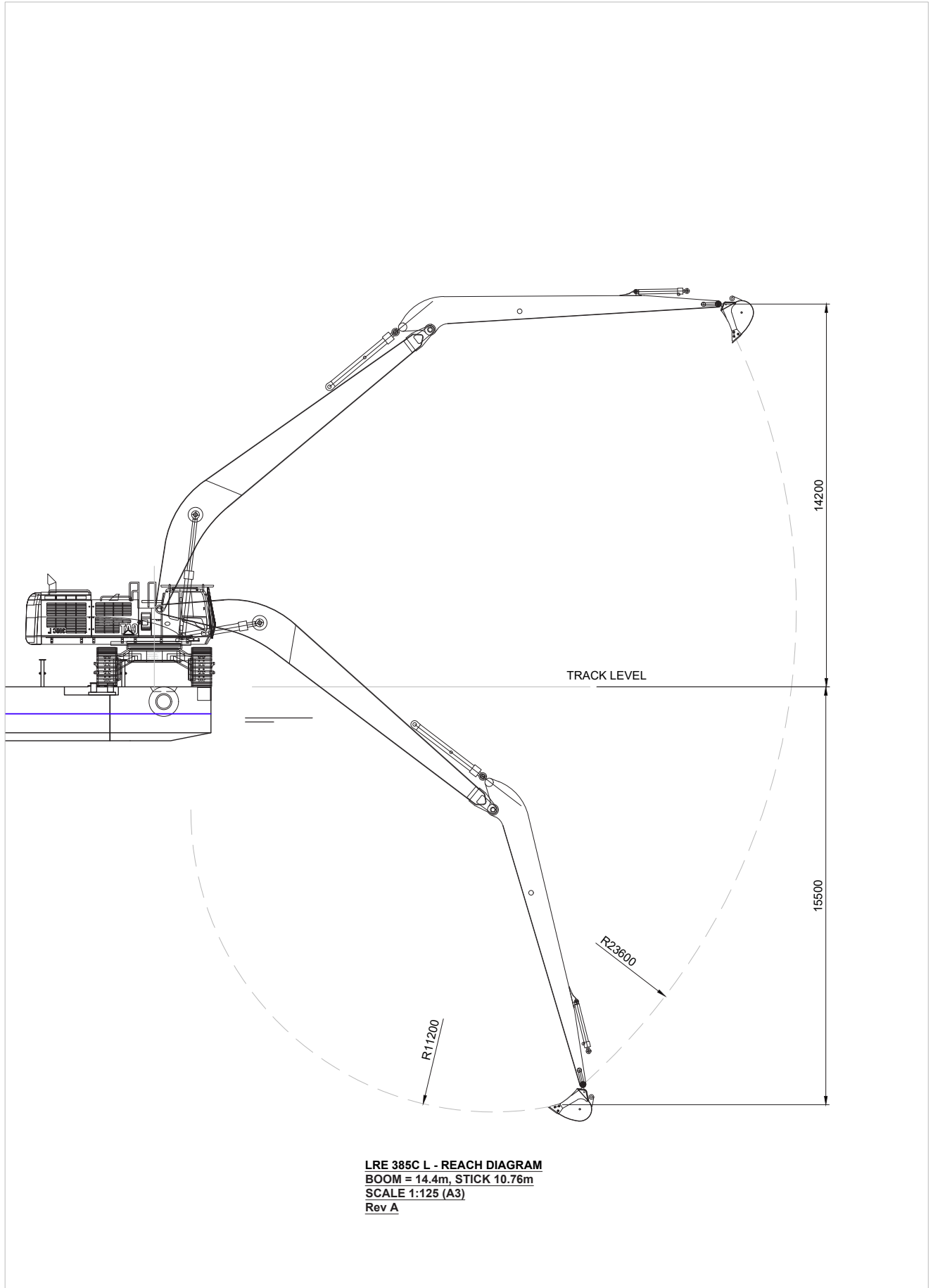
Hydraulic system

Main system – maximum flow (total)	980 L/min	259 gal/min
Swing system – maximum flow	450 L/min	119 gal/min
Maximum pressure – equipment – normal	32 000 kPa	4,640 psi
Maximum pressure – equipment – heavy lift	35 000 kPa	5,080 psi
Maximum pressure – travel	35 000 kPa	5,080 psi
Maximum pressure – swing	26 000 kPa	3,770 psi
Pilot system – maximum flow	90 L/min	24 gal/min
Pilot system – maximum pressure	4120 kPa	600 psi
Boom cylinder – bore	210 mm	8.27 in
Boom cylinder – stroke	1967 mm	77.4 in
Stick cylinder – bore	220 mm	8.66 in
Stick cylinder – stroke	2262 mm	89.1 in
HB family bucket cylinder – bore	200 mm	7.87 in
HB family bucket cylinder – stroke	1451 mm	57.1 in
JB family bucket cylinder – bore	220 mm	8.66 in
JB family bucket cylinder – stroke	1586 mm	62.4 in

Service refill capacities

Fuel tank capacity	1240 L	327.6 gal
Cooling system	101 L	26.7 gal
Engine oil	65 L	17.2 gal
Swing drive (each)	19 L	5 gal
Final drive (each)	21 L	5.6 gal
Hydraulic system (including tank)	995 L	263 gal
Hydraulic Tank	810 L	214 gal





LRE 385C L - REACH DIAGRAM
BOOM = 14.4m, STICK 10.76m
SCALE 1:125 (A3)
Rev A