

ROBEX 500LC-7

Standard Equipment

ISO standard cab

- · All-weather steel cab with all-around visibility
- Safety glass windows
- · Raise-up type windshield wiper
- · Sliding fold-in front window
- · Sliding side window
- · Lockable door
- · Hot & cool box · Accessory box & Ash-tray
- AM/FM radio and cassette
- · Radio remote switch

Computer Aided Power Optimization (New CAPO) system

- 2-power mode, 3-work mode, 2-user mode
- Auto deceleration & one touch deceleration system
- · Auto warm up system
- Auto overheat prevention system

Heater (7500kcal/hr, 30000BTU/hr) Heater & Defroster Self diagnostic system

Centralized monitoring LCD display

Engine speed

Clock & Error code Gauges

Fuel level gauge Engine coolant temperature gauge Hyd. oil temperature gauge

 Warning Fuel level

Check Engine & CPU Engine oil pressure

Engine coolant temperature Hyd. oil temperature Low battery

Air cleaner clogging

 Indicator Power boost.

Preheat & Engine warming-up One touch decel

· Starting Aid (air gride heater), cold weather

Door and cab locks, one key Two outside rearview mirrors Fully adjustable suspension seat with seat belt Slidable joystick, pilot-operated Console box tilting system (LH.) Three front working light Electric horn Batteries (2 x 12V x 200AH) Battery master switch Removable reservoir tank Automatic swing brake Water separator, fuel line Boom holding system Arm holding system

Arm (3.38m, 11' 1") Track shoes (600mm, 23.6") Track rail guard

Counterweight (10,200kg / 22,490lb) Boom (7.06m, 23' 2")

Travel alarm Catwalk (LH)

Optional Equipment

Sun visor for cabin inside Fuel filler pump (35 \(\ell \) /min, 9.2 USgpm) Beacon lamp Safety lock valve for boom cylinder with overload warning device Safety lock valve for arm cylinder Single acting piping kit (breaker, etc) Double acting piping kit (clamshell, etc) Accumulator, work equipment lowering 12 volt power supply (24V DC-12V DC converter) Electric transducer Air-conditioner(5,000kcal/hr, 20000BTU/hr)

Various optional Arms

- Super short arm (2.40m, 7' 10") • Short arm (2.90m, 9' 6")
- Long arm (4.00m, 13' 1")
- Super long arm (4.50m, 14' 9")
- Super long arm (5.85m, 19' 2")

Various optional Buckets (SAE heaped)

- Standard bucket (2.15m³, 2.81yd³) Narrow bucket (1.38m³, 1.80yd³)
- Narrow bucket (1.65m³, 2.16vd³)
- Narrow bucket (1.84m³, 2.41 yd³)
- Light duty bucket (2.56m³, 3.35yd³)
- Light duty bucket (2.79m³, 3.65yd³) Light duty bucket (3.03m³, 3.96yd³)
- Light duty bucket (3.20m³, 4.19yd³)
- Light duty bucket (3.60m³, 4.71yd³)
- Heavy duty bucket (2.20m³, 2.88yd³)
- Rock bucket (1.80m³, 2.35yd³)
- Rock bucket (2.20m³, 2.88yd³)
- Rock bucket (2.43m³, 3.18yd³)
- Rock bucket (3.20m³, 4.19yd³)

Cabin lights FOPS / FOG(ISO 10262) Cabin Roof-Cover Transparent

Track shoes

- Triple grouser shoe (700mm, 28")
- Triple grouser shoe (750mm, 30")
- Triple grouser shoe (800mm, 32")
- Double grouser shoe (600mm, 24") Double grouser shoe (700mm, 28")

Lower frame under cover Preheating system Fuel warmer Tool kit Operator suit Special cowl Full track quard Tropical kit Adjustable Air Suspension Seat

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine shown may vary according to International standards. All US measurement rounded off to nearest pounds or inches.



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Technology in Cab Design TECHNOLOGY IN CAB DESIGN 04/05 **Operator's Comfort is Foremost.** Wide Cab Exceeds Industry Standards **Visibility** · Even more visibility than before, for safer, more efficient operating. **Excellent Ventilation** · Ventilation has been improved by the addition of the larger fresh air intake system. and by providing additional air flow throughout the cab. · Sliding front and side windows provide improved ventilation. · A large sunroof offers upward visibility and additional ventilation. **Comfortable Operator Environment** The control levers and seat can be adjusted to provide maximum operator comfort · The seat is fully adjustable for optimum operating position, reducing operator · Console boxes slide forward and backward for improved accessibility. · The proportional pressure controls reduce unnecessary exertion while ensuring · Large windows allow excellent visibility in all directions. Low noise design · The Robex 7series was designed with low operation noise in mind. Hyundai engineering helps to keep interior and exterior noise levels to a minimum. • The cab's noise levels have been additionally reduced by improving the door seals for the cab and engine compartments. · An insulated diesel engine compartment with sound-damping material also reduces noise. ROBEX 500LC-7

Operating Environment Operating Environment



Wide Cab with Excellent Visibility

The cab is roomy and ergonomically designed with low noise level and good visibility.

A full view front window and large rear and side windows provide excellent visibility in all directions.



Highly Sensitive Joystick and Easy Entrance

New joystick grips for precise control have been equipped with double switches.

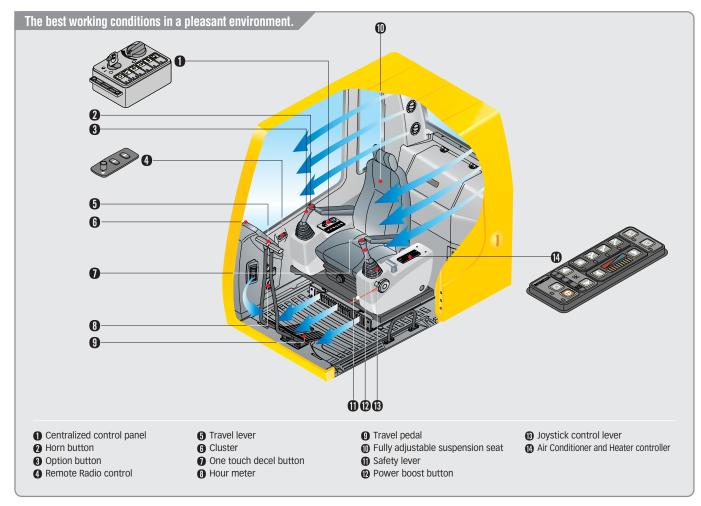
(Left: Power boost / One touch deceleration, Right: Horn/Optional)



Easy-to-Reach Control Panels

Switches and other essential controls are located near the operator.

This helps keep operator movement to a minimum, enhancing control with less operator fatigue.

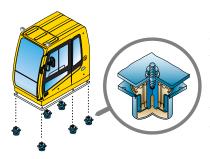


Wide, Comfortable Operating Space

All the controls are designed and positioned according to the latest ergonomic research.

Reinforced pillars have also been added for greater cab rigidity.





Minimization of Shock and Vibration through Cab Mounting System

The application of Viscous Mounting to the cabin support provides the operator with a much improved ride.

The operator work efficiency will increase as the shock and noise level in the cabin decreases.

Improved Intelligent Display

Instrument Panel is installed in front of RH console box.

It is easy to check all critical systems with easy-to-read indicators.



Smooth Travel Pedal and Foot Rests



Remote Radio Control and Deluxe Cassette





Raise-up Wiper and Cabin Lights

Raise-up wiper has enhanced for the better front view. Cabin Lights enhances safety by brightly lighting the surroundings during night work(optional)



Rear Emergency Exit Window

Rear Exit Window is designed with easy



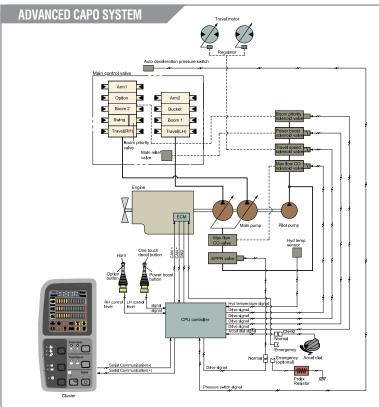
operator's safety.

Storage box and Cup Holder

An Additional storage box and cup holder are located behind operator's seat, and it keeps food and beverages cool or hot.







NEW MODE CONTROL SYSTEM



► POWER MODE

H mode: High power S mode: Standard power

WORK MODE

💪 : Heavy duty work 6 : General work

: Breaker

USER MODE

M mode: Maximum Power

U mode: Memorizing Operator's Preferable Power Setting

Advanced CAPO System

The Advanced CAPO(Computer Aided Power Optimization) system maintains engine and mutual pump power at optimum levels. Mode selections are designed for various work loads and maintaining high performance while reducing fuel consumption.

Features such as auto deceleration and power boost are included in the system.

The system monitors engine speed, coolant temperature, and hydraulic oil temperature. Contained within the system are self diagnostic capabilities which are displayed by error codes on the cluster.

Self Diagnosis System

The CPU controller diagnoses problems in the CAPO system caused by electric and hydraulic malfunctions and displays them on the LCD monitor of the cluster through error codes. This controller has the capacity to identify 48 distinct types of errors. As the information from this device, such as engine rpm, main pump delivery pressure, battery voltage, hyd. temperature, and the state of all types of electric switches, provides the operator with a much more exact state of machine operating condition

This makes the machine easier to troubleshoot when anything does go wrong.

Arm Flow Regeneration System

Arm flow regeneration valve provides smooth arm-in operation without cavitation.

Boom & Arm Holding System

The Holding valves in the main control valve prevents the boom & arm from dropping over an extended period in neutral position.

Auto Deceleration System

When remote-control valves are in neutral position more than 4 seconds. CPU controller instructs to reduce engine speed.

This decreases fuel consumption and reduces cab noise levels.

One Touch Decel System

When the one touch decel switch is pressed, CPU controller controls the accel actuator to reduce engine speed to low idle rpm. And then the one touch decel switch is pressed again, the engine speed recovers.

Max. Flow Cut-off System

For precise control and finishing work, the Max. Flow Cut-off System reduces pump flow, thus allowing smooth operation.

Automatic Engine Overheat Prevention

If the engine coolant temperature gets too high, the CPU controller lowers the engine speed and cools the engine.

Anti Restart System

The new system protects the starter from restarting during engine operation, even if the operator accidentally turns the start key again.

Power boost control System

When the power boost system is activated. digging power increases about 10%. It is especially useful when extra power is temporarily needed, for instance, when digging hard earth and rock, or if the bucket teeth are stopped by a stubborn tree root.

Automatic Warming-up System

After the engine is started, if the engine coolant temperature is low, the CPU controller increases the engine speed and automatically increases the pump flow rate to warm up the engine more effectively.

Pump Flow Control System

In neutral position: Pump flow is reduced to a minimum to eliminate power loss. In operation: Maximum pump flow is delivered to the actuator to increase the speed. With movement of the control lever, pump flow is automatically adjusted and the actuator speed can be proportionally controlled.

Hydraulic Damper in Travel Pedal

Improved travel control ability & feeling by shock reducing when starting and stopping.

CUMMINS QSM11-C Engine

The six cylinders, turbo-charged, 4 cycle, Charger air cooled engine is built for power, reliability, economy and low emissions. This engine meets Tier II emissions regulations.



Setting the standard in clean, efficient power.

The QSM uses advanced electronic controls to meet the toughest emissions standards without compromising anything. Exceptional fuel efficiency, durability, dependability and the highest power-to-weight ratio in its class are still trademark QSM

Plus, the QSM now runs quieter and cleaner.

The QSM engine comes with powerful Electronic Control Module (ECM). Using input from sensors located throughout the engine, it governs the timing and metering of fuel to the engine. Fuel is injected into the power cylinder using Cummins dual-pulse technology. This injection method helps reduce noise levels as it increases responsiveness and improves fuel efficiency.

Reinforced Bucket and Bucket Linkage

Sealed and adjustable bucket linkage provides less wear of pins and bushes as well as silent operation. The design includes bucket link durability and anti wear characteristics. Additional reinforcement plates on cutting edge section. Reinforced bucket is made with thicker steel and additional lateral plate.



Strong and Stable Lower Frame

Reinforced box-section frame is all welded, low-stress, high-strength steel.

It guarantees safety and resistance against external impact when driving on rough ground and working on wet sites through high tensile strength steel panels, with highly durable upper and lower rollers and track guards.

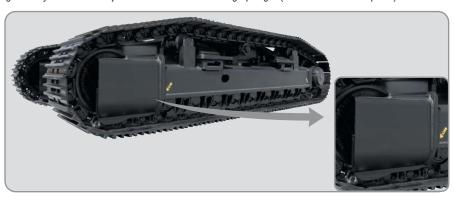
Long undercarriage incorporates heavy duty excavator style components.

X-leg type center frame is integrally welded for maximum strength and durability.



Track Rail Guide & Adjusters

Durable track rail guides keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs. (Full Track Guide: Option)



Powerful and Preciser Swing Control

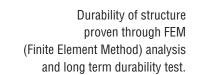
Improved shock absorbing characteristics make stopping a precise and smooth action

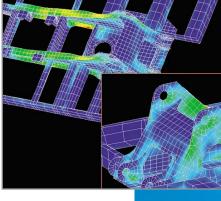


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Full open doors and master key system provide easy access for servicing.

Handrails and foot steps are applied for safety

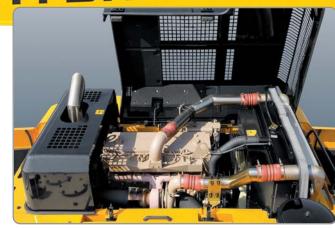






Side Cover with Left & Right Swing Open Type

Easy access to vital components gives unrestricted view of component allows easy maintenance and repair.



Easy to maintain engine components

The cooling and preheating system are provided for optimum and immediate operation, guaranteeing longer life for the engine and hydraulic components.

Servicing of the engine and hydraulics is considerably simplified due to total accessibility.



Centralized Electric Control Box and Easy Change Air Cleaner Assembly

Electric control box and Air cleaner are centralized in one or the same compartment for easy service.



Highly efficient Hydraulic PumpPump output capacity has been increased.



Large tool box for extra storage



Photo may include optional equipment.

Specifications



Engine

	Model		Cummins QSM11-C			
	Туре		Watercooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbocharged, Charger air cooled, Low emission			
Rate	d flywheel horse	power				
SAE	J1995 (gross)	LID(IdM) /rm m	353 (263) / 1,900			
SAE	J1349 (net)	HP(kW)/rpm	320 (239) / 1,900			
DIN	627 1/1 (gross)	DC (IdM) /wa wa	358 (263) / 1,900			
מווע	627 1/1 (net)	PS(kW)/rpm	325 (239) / 1,900			
Max	. torque	kgf·m(lbf·ft)/rpm	182.5 (1,320) / 1,300			
Bore	x stroke	mm (in)	125 (4.92) x 147(5.79)			
Piston displacement cc (in³)			10,800 (659)			
Batteries			2 x 12V x 200AH			
Starting motor			24V, 7.2kw			
Alter	rnator		24V, 50Amp			



Hydraulic system

Main pump							
Type		Two variable displacement	oiston _l	pumps			
Max. flow		2x380 ℓ /min (100.4 US gpm	/ 83.6 L	JK gpm)			
Sub-pump for pilot circ	cuit	Gear pump					
Cross-sensing and fue	l saving pu	ımp system					
Hydraulic motors							
Travel		Two speed axial piston motor with brake valve and parking brake					
Swing		Axial piston motor with automatic brake					
Relief valve setting							
Implement circuits		330 kgf/cm² (4,690 psi)					
Travel		345 kgf/cm² (4,910 psi)					
Power boost (boom, arn	n, bucket)	360 kgf/cm ² (5,120 psi)					
Swing circuit		285 kgf/cm ² (3,770 psi)					
Pilot circuit		35 kgf/cm² (500 psi)					
Service valve		Installed					
Hydraulic cylinders							
No. of outlined an	Boom: 2	-170×115×1,570 mm (6.7"	4.5"	61.8")			
No. of cylinder- bore x rod x stroke	Arm: 1	-190×130×1,820 mm (7.5"	5.1"	71.7")			
DOIO A TOU A SHORE		-170×115×1,370 mm (6.7"	4.5"	53.9")			



Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	38,500 kgf (82,000 lbf)
Max. travel speed(high) / (low)	5.2 km/hr (3.3 mph) / 3.3 km/hr (2.0 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc



Control

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket(ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
External Lights	Two lights mounted on the boom one under the battery box



Swing system

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	10.0 rpm



Coolant & Lubricant capacity

(refilling)	liter	US gal	UK gal
Fuel tank	610	161.2	134.2
Engine coolant	50.0	13.2	11.0
Engine oil	37.9	10.0	8.3
Swing device(each)	5.0	1.3	1.1
Final drive(each)	5.0	1.3	1.1
Hydraulic system(including tank)	380	100.4	83.6
Hydraulic tank	250	66.1	55.0



Undercarriage

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing spring and sprocket, assembled track chain with triple grouser shoes.

Description	R500LC-7
Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	53
No. of carrier roller on each side	3
No. of track roller on each side	9
No. of track guard on each side	2



Operating weight (approximate)

Operating weight, including 7,060mm (23' 2") boom, 3,380mm (11' 1") arm, SAE heaped 2.15m3 (2.81 yd3) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Major component weight

Upperstructure	9,940kg (21,910lb)
Counterweight	10,200kg (22,490lb)
Boom (with Arm cylinder)	4,180kg (9,220lb)

Operating weight

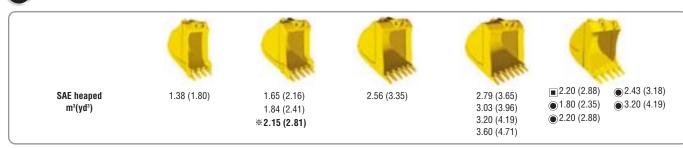
Sho	oes	Operating weight	Ground pressure	
Type	Type Width mm(in)		kgf/cm²(psi)	
	*600 (24)	48,800 (107,580)	0.84 (11.94)	
Triple	700 (28)	49,340 (108,770)	0.73 (10.38)	
grouser	750 (30)	49,590 (109,330)	0.69 (9.81)	
	800 (32)	49,850 (109,900)	0.65 (9.24)	
Double	600 (24)	48,800 (107,580)	0.84 (11.94)	
grouser	700 (28)	49,340 (108,770)	0.73 (10.38)	

^{*} Standard equipment

Backhoe attachment 12/13



Buckets



Capacity m ³ (yd ³)		Width mm (in)			Recommendation mm(ft.in)							
Capacity	III ⁻ (yu ⁻)	VVIULITI	(111)	Weight	Boom			7,060 (23′ 2	")		6,550 (21′ 6″)	9,000 (29′ 6″)
SAE heaped	CECE heaped	Without side cutters	With side cutters	kg(lb)	Arm	2,400 (7′ 10″)	2,900 (9′ 6″)	*3,380 (11' 1")	4,000 (13′ 1″)	4,500 (14′ 9″)	2,400 (7′ 10″)	5,850 (19′ 2″)
1.38 (1.80)	1.20 (1.57)	1,100 (43.3)	1,250 (49.2)	1,360 (3,000)		•	•	•	•		•	A
1.65 (2.16)	1.44 (1.88)	1,350 (53.1)	1,500 (59.1)	1,550 (3,420)		•	•	•		A	•	A
1.84 (2.41)	1.60 (2.09)	1,420 (55.9)	1,570 (61.8)	1,590 (3,510)		•	•			A	•	-
※2.15 (2.81)	1.85 (2.40)	1,610 (63.4)	1,760 (69.3)	1,740 (3,840)		•	•		A	A	•	-
2.56 (3.35)	2.20 (2.90)	1,870 (73.6)	2,020 (79.5)	1,970 (4,340)			A	A	A	-		-
2.79 (3.65)	2.40 (3.14)	2,020 (79.5)	2,170 (85.4)	2,100 (4,630)		A	A	A	-	-		-
3.03 (3.96)	2.60 (3.40)	2,170 (85.4)	2,320 (91.3)	2,140 (4,720)		-	_	-	_	-	A	-
3.20 (4.19)	2.78 (3.64)	2,030 (79.9)	2,180 (85.8)	2,320 (5,110)		-	-	-	-	-	A	-
3.60 (4.71)	3.15 (4.12)	2,250 (88.6)	2,400 (94.5)	2,460 (5,420)		-	-	-	-	-	A	-
■2.20 (2.88)	1.80 (2.35)	1,810 (71.3)	-	2,140 (4,720)		•	•			A	•	-
● 1.80 (2.35)	1.50 (1.96)	1,560 (61.4)	-	2,090 (4,610)		•	•	-	A	A	•	-
2.20 (2.88)	1.80 (2.35)	1,810 (71.3)	-	2,190 (4,830)				A	A	A	•	-
2.43 (3.18)	2.10 (2.75)	1,860 (73.2)	-	2,330 (5,140)			A	A	-	-		-
3.20 (4.19)	2.80 (3.66)	2,080 (81.9)	-	2,790 (6,150)		-	-	-	-	-	A	-

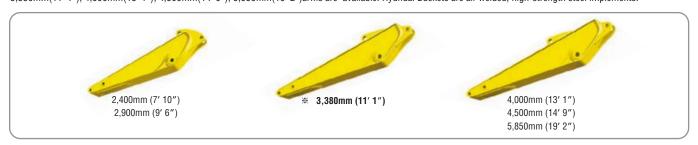
^{※:} Standard backhoe bucket / ■: Heavy-duty / ● Rock bucket-Heavy duty

- : Applicable for materials with density of 2,000 kg / m³ (3,370 lb/ yd³) or less
- : Applicable for materials with density of 1,600 kg / m³ (2,700 lb/ yd³) or less ▲ : Applicable for materials with density of 1,100 kg / m³ (1,850 lb/ yd³) or less



Backhoe attachment

Boom and arms are of all-welded, low-stress, full-box section design. 7,060mm(23' 2"), 6,550mm(21' 6"), 9,000mm(29' 6") boom and 2,400mm(7' 10"), 2,900mm(9' 6"), 3,380mm(11' 1"), 4,000mm(13' 1"), 4,500mm(14' 9"), 5,850mm(19' 2") arms are available. Hyundai Buckets are all-welded, high-strength steel implements.





Digging force

Arm	Length	mm(ft.in)	2,400 (7′ 10″)	2,900 (9′ 6″)	※3,380 (11 ′ 1″)	4,000 (13′ 1″)	4,500 (14′ 9″)	Remark
AIIII	Weight	kg(lb)	2,370 (5220)	2,540 (5600)	2,380 (5250)	2,670 (5890)	2,860 (6310)	nemark
Bucket	SAE	kN kgf Ibf	246.2 [268.5] 25,100 [27,380] 55,340 [60,370]					
digging force	ISO	kN kgf Ibf	292.2 [318.8] 29,800 [32,510] 65,700 [71,670]	[]:				
Arm	SAE	kN kgf Ibf	273.6 [298.5] 27,900 [30,440] 61,510 [67,100]	222.6 [242.9] 22,700 [24,760] 50,040 [54,590]	186.3 [203.3] 19,000 [20,730] 41,890 [45,700]	169.7 [185.1] 17,300 [18,870] 38,140 [41,610]	157.9 [172.2] 16,100 [17,560] 35,490 [38,720]	Power Boost
force	IS0	kN kgf Ibf	291.3 [317.7] 29,700 [32,400] 65,480 [71,430]	235.4 [256.8] 24,000 [26,180] 52,910 [57,720]	196.1 [214.0] 20,000 [21,820] 44,090 [48,100]	177.5 [193.6] 18,100 [19,750] 39,900 [43,530]	164.8 [179.7] 16,800 [18,330] 37,040 [40,410]	

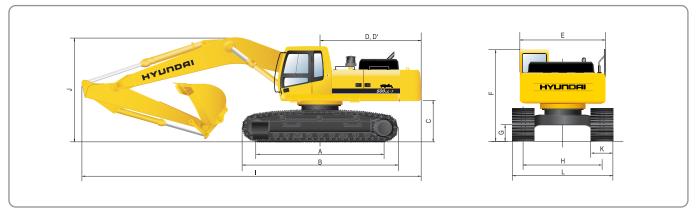
Note : Arm weight including bucket cylinder and linkage.

** Standard arm

NEW 7 SERIES ROBEX 500LC-7

Dimensions & Working ranges

Dimensions



	/£L	:
mm	(11)	111

	Description	R500LC-7
A	Tumbler distance	4,470 (14' 8")
В	Overall length of crawler	5,460(17′ 11″)
C	Ground clearance of CWT	1,500 (4′ 11″)
D	Tail swing radius	3,720 (12' 2")
D'	Rear-end length	3,665 (12′ 0″)
E	Overall width of upperstructure	2,980 (9′ 9″)
F	Overall height of cab	3,390 (11′ 2″)
G	Min. ground clearance	770 (2′ 6″)
н	Track gauge(Extended/Retracted)	2.940 (9' 8")/2.380 (7' 10")

mm	(ft		in)
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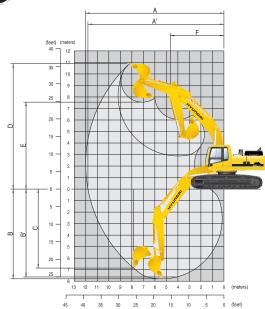
								, ,
	Boom length			% 7,060	(23′ 2″)		6,550 (21' 6")	9,000 (29' 6")
	Arm length	2,400 (7′ 10″)	2,900 (9′ 6″)	%3,380 (11′ 1″)	4,000 (13′ 1″)	4,500 (14′ 9″)	2,400 (7′ 10″)	5,850 (19′ 2″)
	Overall length	12,240 (40′ 2″)	12,160 (39′ 11″)	11,980 (39′ 4″)	12,020 (39′ 5″)	11,980 (39′ 4″)	11,740 (38′ 6″)	13,770 (45′ 2″)
J	Overall height of boom	3,970 (13′ 0″)	3,880 (12′ 9″)	3,670 (12′ 0″)	4,100 (13′ 5″)	4,540 (14′ 11″)	4,100 (13′ 5″)	5,190 (17′ 0″)

K	Track shoe width	% 600 (24″)	700 (28")	750 (30")	800 (32")	900 (36")
L	Overall width	3,340 (10′ 11″)	3,440 (11′ 3″)	3,490 (11′ 5″)	3,540 (11′ 7″)	3,640 (11′ 11″)
	Extended	3,540 (11′7″)	3,640 (11′ 11″)	3,690 (12′ 1″)	3,740 (12′ 3″)	3,840 (12′ 7″)
	Retracted	2,980 (9′ 9″)	3,080 (10′ 1″)	3,130 (10′ 3″)	3,180 (10′ 5″)	3,280 (10′ 9″)

^{*} Standard Equipment



Working ranges



mm (ft · in)

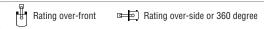
	Boom length			% 7,060	(23′ 2″)		6,550 (21' 6")	9,000 (29' 6")
	Arm length	2,400 (7′ 10″)	2,900 (9′ 6″)	%3,380 (11′ 1″)	4,000 (13′ 1″)	4,500 (14′ 9″)	2,400 (7′ 10″)	5,850 (19′ 2″)
A	Max. digging reach	11,160 (36′ 7″)	11,550 (37′ 11″)	12,100 (39′ 8″)	12,660 (41′ 6″)	13,150 (43′ 2″)	10,610 (34′ 10″)	16,280 (53′ 5″)
A'	Max. digging reach on ground	10,900 (35′ 9″)	11,310 (37′ 1″)	11,870 (38′ 11″)	12,440 (40′ 10″)	12,930 (42′ 5″)	10,340 (33′ 11″)	16,100 (52′ 10″)
В	Max. digging depth	6,630 (21′ 9″)	7,130 (23′ 5″)	7,610 (24′ 12″)	8,230 (27′ 0″)	8,730 (28' 8")	6,150 (20′ 2″)	11,380 (37' 4")
B'	Max. digging depth (8' level)	6,450 (21′ 2″)	6,970 (22′ 10″)	7,460 (24′ 6″)	8,100 (26′ 7″)	8,610 (28' 3")	5,970 (19′ 7″)	11,280 (37′ 0″)
С	Max. vertical wall digging depth	5,810 (19′ 1″)	5,670 (18′ 7″)	6,380 (20′ 11″)	7,120 (23′ 4″)	7,510 (24′ 8″)	5,250 (17′ 3″)	10,070 (33′ 0″)
D	Max. digging height	10,690 (35′ 1″)	10,640 (34′ 11″)	11,120 (36′ 6″)	11,330 (37' 2")	11,580 (37′ 12″)	10,300 (33′ 10″)	13,930 (45′ 8″)
E	Max. dumping height	7,270 (23′ 10″)	7,330 (24′ 1″)	7,750 (25′ 5″)	7,960 (26′ 1″)	8,210 (26′ 11″)	6,900 (22′ 8″)	10,530 (34′ 7″)
F	Min. swing radius	5,090 (16′ 8″)	4,900 (16′ 1″)	4,780 (15′ 8″)	4,830 (15′ 10″)	4,870 (15′ 12″)	4,640 (15′ 3″)	5,940 (19′ 6″)

* Standard Equipment

Lifting Capacities



Lifting capacities



· Boom: 6.55 m (21' 6") · Arm: 2.40 m (7' 10") · Bucket: 2.15 m³ SAE heaped · Shoe: 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

					Load	radius					At max. rea	ach
Load Po		3.0m (10.0ft)	4.5m ((15.0ft)	6.0m (20.0ft)	7.5m (25.0ft)	Cap	acity	Reach
heigh m(ft)												m (ft)
7.5m 25.0ft	kg Ib				 		 			*10040 * 22130	8720 19220	8.44 (27.7)
6.0m 20.0ft	kg Ib				 	*13190 * 29080	*13190 * 29080	*11580 * 25530	10370 22860	*9900 * 21830	7260 16010	9.23 (30.3)
4.5m 15.0ft	kg Ib			*19750 * 43540	*19750 * 43540	*14810 * 32650	14470 31900	*12280 * 27070	10050 22160	*9900 * 21830	6490 14310	9.69 (31.8)
3.0m 10.0ft	kg Ib				 	*16480 * 36330	13650 30090	*13090 * 28860	9650 21270	9840 21690	6140 13540	9.86 (32.3)
1.5m 5.0ft	kg Ib				 	*17540 * 38670	13010 28680	*13650 * 30090	9290 20480	9870 21760	6120 13490	9.77 (32.1)
Ground Line	kg Ib			*23620 * 52070	19860 43780	*17620 * 38850	12670 27930	*13660 * 30120	9070 20000	*9950 * 21940	6460 14240	9.41 (30.9)
-1.5m -5.0ft	kg Ib	*26210 * 57780	*26210 * 57780	*21590 * 47600	19950 43980	*16590 * 36570	12600 27780	*12760 * 28130	9020 19890	*9650 * 21270	7310 16120	8.72 (28.6)
-3.0m -10.0ft	kg Ib	*22070 * 48660	*22070 * 48660	*18190 * 40100	*18190 * 40100	*14140 * 31170	12780 28180			*8660 * 19090	*8660 * 19090	7.62 (25.0)
-4.5m -15.0ft	kg Ib			*12430 * 27400	*12430 * 27400						 	

· Boom: 7.06 m (23'2") · Arm: 2.40 m (7'10") · Bucket: 2.15 m³ SAE heaped · Shoe: 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

		,		,					' '	0	, ,	, ,		
						Load	radius					At	t max. read	ch
Load Po		3.0m (10.0ft)	4.5m (15.0ft)	6.0m (20.0ft)	7.5m ((25.0ft)	9.0m (30.0ft)	Capa	acity	Reach
heigh m(ft)			=										=	m (ft)
7.5m 25.0ft	kg Ib		 		 		 	*10410 * 22950	*10410 * 22950		 	*9050 * 19950	7490 16510	9.09 (29.8)
6.0m 20.0ft	kg Ib		 		 	*12670 * 27930	*12670 * 27930	*10880 * 23990	10210 22510		 	*8960 * 19750	6330 13960	9.83 (32.3)
4.5m 15.0ft	kg Ib		 		 	*14410 * 31770	14010 30890	*11710 * 25820	9790 21580	*10160 * 22400	7140 15740	*8960 * 19750	5700 12570	10.26 (33.7)
3.0m 10.0ft	kg Ib		 		 	*16080 * 35450	13100 28880	*12580 * 27730	9330 20570	*10530 * 23210	6930 15280	8810 19420	5400 11900	10.42 (34.2)
1.5m 5.0ft	kg Ib		 		 	*17070 * 37630	12460 27470	*13200 * 29100	8950 19730	*10770 * 23740	6730 14840	8820 19440	5380 11860	10.33 (33.9)
Ground Line	kg Ib		 		 	*17110 * 37720	12160 26810	*13310 * 29340	8720 19220		 	*9080 * 20020	5650 12460	9.99 (32.8)
-1.5m -5.0ft	kg Ib		 	*20730 * 45700	19330 42620	*16250 * 35830	12130 26740	*12710 * 28020	8660 19090		 	*8900 * 19620	6320 13930	9.36 (30.7)
-3.0m -10.0ft	kg Ib	*20940 * 46160	*20940 * 46160	*17990 * 39660	*17990 * 39660	*14340 * 31610	12310 27140	*10990 * 24230	8810 19420		 	*8260 * 18210	7720 17020	8.36 (27.4)
-4.5m	kg Ih		I	*13590 *20060	*13590 *20060	*10660 *23500	*10660 *23500		I		I			

· Boom: 7.06 m (23' 2") · Arm: 2.90 m (9' 6") · Bucket: 2.15 m³ SAE heaped · Shoe : 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

Load radius At max. reach														
						Load	radius					At	max. read	h
Load Po		3.0m ((10.0ft)	4.5m (15.0ft)	6.0m (20.0ft)	7.5m ((25.0ft)	9.0m (30.0ft)	Capa	acity	Reach
heigh m(ft)			-		=						=			m (ft)
7.5m 25.0ft	kg Ib		 				 	*9660 * 21300	*9660 * 21300			*8360 * 18430	6890 15190	9.55 (31.3)
6.0m 20.0ft	kg Ib		 				 	*10230 * 22550	*10230 * 22550			*8320 * 18340	5880 12960	10.25 (33.6)
4.5m 15.0ft	kg Ib		 	*18360 * 40480	*18360 * 40480	*13580 * 29940	*13580 * 29940	*11140 * 24560	9890 21800	*9690 * 21360	7190 15850	*8380 * 18470	5310 11710	10.66 (35.0)
3.0m 10.0ft	kg Ib		 	*22060 * 48630	20430 45040	*15410 * 33970	13270 29260	*12120 * 26720	9380 20680	*10180 * 22440	6930 15280	8260 18210	5030 11090	10.81 (35.5)
1.5m 5.0ft	kg Ib		 	*23550 * 51920	19290 42530	*16670 * 36750	12520 27600	*12880 * 28400	8950 19730	*10550 * 23260	6690 14750	8250 18190	5000 11020	10.73 (35.2)
Ground Line	kg Ib		 	*23160 * 51060	19000 41890	*17060 * 37610	12110 26700	*13190 * 29080	8650 19070	*10620 * 23410	6530 14400	8620 19000	5210 11490	10.40 (34.1)
-1.5m -5.0ft	kg Ib	*21420 * 47220	*21420 * 47220	*21740 * 47930	19060 42020	*16540 * 36460	11980 26410	*12870 * 28370	8540 18830			*8630 * 19030	5770 12720	9.80 (32.2)
-3.0m -10.0ft	kg Ib	*24420 * 53840	*24420 * 53840	*19320 * 42590	*19320 * 42590	*15030 * 33140	12090 26650	*11640 * 25660	8600 18960			*8300 * 18300	6900 15210	8.86 (29.1)
-4.5m -15.0ft	kg Ib	*19000 * 41890	*19000 * 41890	*15480 * 34130	*15480 * 34130	*12100 * 26680	*12100 * 26680		 			*7100 * 15650	*7100 * 15650	7.42 (24.3)

1. Lifting capacity are based on SAE J1097, ISO 10567.

- Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The load point is a hook (standard equipment) located on the back of the bucket.
- 4. (*) indicates load limited by hydraulic capacity.

NEW 7 SERIES ROBEX 500LC-7

Lifting Capacities LIFTING CAPACITIES 17 LIFTING CAPACITIES 14/15/16



Lifting capacities

Rating over-front Rating over-side or 360 degree

· Boom: 7.06 m (23' 2") · Arm: 4.50 m (14' 9") · Bucket: 2.15 m³ SAE heaped · Shoe: 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

					·						-					
							Load	radius						At	max. rea	ch
Load Po		3.0m (10.0ft)	4.5m (15.0ft)	6.0m (20.0ft)	7.5m (25.0ft)	9.0m (30.0ft)	10.5m	(35.0ft)	Capa	acity	Reach
heigh m(ft)					=						=					m (ft)
7.5m 25.0ft	kg Ib		 				 			*6900 * 15210	*6900 * 15210			*6590 * 14530	4980 10980	11.35 (37.2)
6.0m 20.0ft	kg Ib		 				 			*7620 * 16800	*7620 * 16800	*5070 * 11180	*5070 * 11180	*6610 * 14570	4370 9630	11.93 (39.1)
4.5m 15.0ft	kg Ib		 - -				- -	*9230 * 20350	*9230 * 20350	*8220 * 18120	7400 16310	*6810 * 15010	5470 12060	*6680 * 14730	4000 8820	12.27 (40.3)
3.0m 10.0ft	kg Ib		 	*17760 * 39150	*17760 * 39150	*12980 * 28620	*12980 * 28620	*10470 * 23080	9670 21320	*8940 * 19710	7050 15540	*7920 * 17460	5270 11620	6460 14240	3800 8380	12.40 (40.7)
1.5m 5.0ft	kg Ib		 	*21260 * 46870	20360 44890	*14940 * 32940	12950 28550	*11630 * 25640	9100 20060	*9620 * 21210	6710 14790	*8270 * 18230	5070 11180	6430 14180	3760 8290	12.33 (40.5)
Ground Line	kg Ib	*14070 * 31020	*14070 * 31020	*23000 * 50710	19220 42370	*16240 * 35800	12220 26940	*12470 * 27490	8630 19030	*10120 * 22310	6420 14150	*8270 * 18230	4910 10820	6620 14590	3860 8510	12.06 (39.6)
-1.5m -5.0ft	kg Ib	*17560 * 38710	*17560 * 38710	*23140 * 51010	18750 41340	*16700 * 36820	11800 26010	*12830 * 28290	8330 18360	*10280 * 22660	6230 13730	*7920 * 17460	4810 10600	7080 15610	4160 9170	11.55 (37.9)
-3.0m - 10.0ft	kg Ib	*22030 * 48570	*22030 * 48570	*22050 * 48610	18680 41180	*16270 * 35870	11650 25680	*12550 * 27670	8210 18100	*9900 * 21830	6160 13580			*7100 * 15650	4720 10410	10.79 (35.4)
-4.5m -15.0ft	kg Ib	*27690 * 61050	*27690 * 61050	*19730 * 43500	18900 41670	*14820 * 32670	11740 25880	*11390 * 25110	8260 18210	*8530 * 18810	6260 13800			*6850 * 15100	5780 12740	9.69 (31.8)
-6.0m -20.0ft	kg Ib	*21410 * 47200	*21410 * 47200	*15800 * 34830	*15800 * 34830	*11940 * 26320	*11940 * 26320	*8660 * 19090	8560 18870					*5940 * 13100	*5940 * 13100	8.10 (26.6)

• Boom: 9.00 m (29' 6") • Arm: 5.85 m (19' 2") • Bucket: 1.65 m³ SAE heaped • Shoe: 600mm(24") triple grouser & 10,700kg(23,590 lb) CWT

Dooin. S.	Load radius At max. reach															
							Load	radius						At	max. rea	ch
Load Po		3.0m (10.0ft)	5.0m (15.0ft)	7.0m (25.0ft)	9.0m (30.0ft)	11.0m	(35.0ft)	13.0m	(45.0ft)	Capa	acity	Reach
heigh m(ft)																m (ft)
10.0m 35.0ft	kg Ib		 						 				 	*4350 * 9590	3530 7780	13.66 (44.8)
8.0m 25.0ft	kg Ib		 							*4910 * 10820	*4910 * 10820	*2810 * 6190	*2810 * 6190	*4290 * 9460	2860 6310	14.63 (48.0)
6.0m 20.0ft	kg Ib		 - -							*5320 * 11730	*5320 * 11730	*4370 * 9630	3650 8050	*4290 * 9460	2450 5400	15.25 (50.0)
4.0m 15.0ft	kg Ib		 			*9040 * 19930	*9040 * 19930	*7050 * 15540	*7050 * 15540	*5880 * 12960	4990 11000	*5110 * 11270	3450 7610	4200 9260	2200 4850	15.57 (51.1)
2.0m 5.0ft	kg Ib		 	*16870 * 37190	16620 36640	*10900 * 24030	9970 21980	*8070 * 17790	6630 14620	*6460 * 14240	4600 10140	*5410 * 11930	3230 7120	4080 8990	2100 4630	15.60 (51.2)
Ground Line	kg Ib		 	*17270 * 38070	15020 33110	*12210 * 26920	9020 19890	*8880 * 19580	6060 13360	*6930 * 15280	4250 9370	5550 12240	3030 6680	4140 9130	2110 4650	15.35 (50.4)
-2.0m -5.0ft	kg Ib	*11700 * 25790		*18210 * 40150	14440 31830	*12720 * 28040	8480 18700	*9290 * 20480	5680 12520	*7160 * 15790	4010 8840	5400 11900	2890 6370	4390 9680	2270 5000	14.80 (48.6)
-4.0m -15.0ft	kg Ib	*15000 * 33070	*15000 * 33070	*17860 * 39370	14390 31720	*12450 * 27450	8290 18280	*9180 * 20240	5500 12130	*7000 * 15430	3890 8580	*4190 * 9240	2870 6330	*4530 * 9990	2620 5780	13.91 (45.6)
-6.0m -20.0ft	kg Ib	*18860 * 41580	*18860 * 41580	*15810 * 34860	14660 32320	*11330 * 24980	8360 18430	*8400 * 18520	5530 12190	*6190 * 13650	3940 8690		 	*4380 * 9660	3290 7250	12.61 (41.4)
-8.0m -25.0ft	kg Ib	*17900 * 39460	*17900 * 39460	*12440 * 27430	*12440 * 27430	*9090 * 20040	8680 19140	*6540 * 14420	5780 12740				 	*3820 * 8420	*3820 * 8420	10.72 (35.2)

NOTES 1. Lifting capacity are based on SAE J1097, ISO 10567.

Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook (standard equipment) located on the back of the bucket. 4. (*) indicates load limited by hydraulic capacity.

NEW 7 SERIES ROBEX 500LC-7





· Boom: 7.06 m (23' 2") · Arm: 3.38 m (11' 1") · Bucket: 2.15 m³ SAE heaped · Shoe: 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

						Load	radius					At	max. read	ch
Load Po		3.0m (10.0ft)	4.5m (15.0ft)	6.0m (20.0ft)	7.5m (25.0ft)	9.0m (30.0ft)	Capa	acity	Reach
heigh m(ft)													=	m (ft)
7.5m 25.0ft	kg Ib		 		 		 		 		 	*7870 * 17350	6190 13650	10.18 (33.4)
6.0m 20.0ft	kg Ib		 		 		 	*9730 * 21450	*9730 * 21450	*8620 * 19000	7560 16670	*7850 * 17310	5370 11840	10.83 (35.5)
4.5m 15.0ft	kg Ib		 	*17090 * 37680	*17090 * 37680	*12920 * 28480	*12920 * 28480	*10720 * 23630	10070 22200	*9390 * 20700	7330 16160	*7900 * 17420	4890 10780	11.21 (36.8)
3.0m 10.0ft	kg Ib		 	*21120 * 46560	*21120 * 46560	*14910 * 32870	13590 29960	*11800 * 26010	9560 21080	*9960 * 21960	7060 15560	7660 16890	4660 10270	11.36 (37.3)
1.5m 5.0ft	kg Ib			*23430 * 51650	19850 43760	*16450 * 36270	12800 28220	*12720 * 28040	9100 20060	*10450 * 23040	6790 14970	7650 16870	4620 10190	11.28 (37.0)
Ground Line	kg Ib	*13300 * 29320	*13300 * 29320	*23730 * 52320	19310 42570	*17140 * 37790	12310 27140	*13220 * 29150	8770 19330	*10670 * 23520	6590 14530	7950 17530	4800 10580	10.97 (36.0)
-1.5m -5.0ft	kg Ib	*19310 * 42570	*19310 * 42570	*22730 * 50110	19220 42370	*16930 * 37320	12100 26680	*13120 * 28920	8600 18960	*10420 * 22970	6500 14330	*8140 * 17950	5250 11570	10.41 (34.2)
-3.0m -10.0ft	kg Ib	*25700 * 56660	*25700 * 56660	*20660 * 45550	19390 42750	*15760 * 34740	12120 26720	*12230 * 26960	8600 18960		 	*7910 * 17440	6130 13510	9.54 (31.3)
-4.5m -15.0ft	kg Ib	*22360 * 49300	*22360 * 49300	*17250 * 38030	*17250 * 38030	*13340 * 29410	12360 27250	*9970 * 21980	8820 19440		 	*7110 * 15670	*7110 * 15670	8.25 (27.1)
-6.0m -20.0ft	kg Ib		 	*11650 * 25680	*11650 * 25680		 		 		 			

· Boom: 7.06 m (23'2") · Arm: 4.00 m (13'1") · Bucket: 2.15 m³ SAE heaped · Shoe: 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

	Load radius At max. reach															
							Load	radius						At	max. rea	ch
Load Po		3.0m (10.0ft)	4.5m (15.0ft)	6.0m (20.0ft)	7.5m (25.0ft)	9.0m (30.0ft)	10.5m	(35.0ft)	Capa	acity	Reach
heigh m(ft)	t															m (ft)
7.5m 25.0ft	kg Ib								 	*6580 * 14510	*6580 * 14510		 	*7130 * 15720	5520 12170	10.81 (35.5)
6.0m 20.0ft	kg Ib									*8200 * 18080	7640 16840			*7150 * 15760	4820 10630	11.42 (37.5)
4.5m 15.0ft	kg Ib							*9910 * 21850	*9910 * 21850	*8760 * 19310	7370 16250	*5530 * 12190	5470 12060	*7220 * 15920	4410 9720	11.78 (38.6)
3.0m 10.0ft	kg Ib			*19310 * 42570	*19310 * 42570	*13880 * 30600	13790 30400	*11090 * 24450	9620 21210	*9420 * 20770	7060 15560	*7170 * 15810	5310 11710	7000 15430	4190 9240	11.92 (39.1)
1.5m 50ft	kg Ib			*22370 * 49320	20130 44380	*15680 * 34570	12890 28420	*12150 * 26790	9100 20060	*10030 * 22110	6750 14880	*7960 * 17550	5140 11330	6980 15390	4150 9150	11.85 (38.9)
Ground Line	kg Ib	*13920 * 30690	*13920 * 30690	*23510 * 51830	19280 42510	*16730 * 36880	12270 27050	*12860 * 28350	8710 19200	*10410 * 22950	6510 14350	*7220 * 15920	5010 11050	7210 15900	4290 9460	11.56 (37.9)
-1.5m -5.0ft	kg Ib	*18330 * 40410	*18330 * 40410	*23140 * 51010	18990 41870	*16900 * 37260	11960 26370	*13030 * 28730	8470 18670	*10410 * 22950	6360 14020		 	*7610 * 16780	4640 10230	11.03 (36.2)
-3.0m -10.0ft	kg Ib	*23530 * 51870	*23530 * 51870	*21600 * 47620	19040 41980	*16150 * 35600	11890 26210	*12500 * 27560	8400 18520	*9760 * 21520	6340 13980		 	*7540 * 16620	5340 11770	10.21 (33.5)
-4.5m -15.0ft	kg Ib	*25640 * 56530	*25640 * 56530	*18800 * 41450	*18800 * 41450	*14300 * 31530	12050 26570	*10940 * 24120	8520 18780		 		 	*7120 * 15700	6670 14700	9.04 (29.7)
-6.0m -20.0ft	kg Ib	*18550 * 40900	*18550 * 40900	*14200 * 31310	*14200 * 31310	*10730 * 23660	*10730 * 23660				 					

- NOTES

 1. Lifting capacity are based on SAE J1097, ISO 10567.
 2. Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The load point is a hook (standard equipment) located on the back of the bucket. 4. (*) indicates load limited by hydraulic capacity.