



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 grille 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.)

#### Four front working light

#### Electric horn

#### Batteries (2 x 12V x 200AH)

#### Battery master switch

#### Removable reservoir tank

#### Automatic swing brake

#### Fuel Pre-filter

#### Boom holding system

#### Arm holding system

#### Counterweight (10,200kg / 22,490lb)

#### Boom (7.06m, 23' 2")

#### Arm (3.38m, 11' 1")

#### Track shoes (600mm, 23.6")

#### Track rail guard

#### Travel alarm

#### Catwalk (LH)

#### Fuel warmer

### Optional Equipment

#### Sun visor for cabin inside

#### Fuel filler pump (35 l/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)

#### FATC(Full Automatic Temperature Control)

#### Various optional Arms

#### CD player radio

#### • Super short arm (2.40m, 7' 10")

#### • Short arm (2.90m, 9' 6")

#### • Long arm (4.00m, 13' 1")

#### • Long arm (4.50m, 14' 9")

#### • Super long arm (5.85m, 19' 2")

#### Various optional Buckets (SAE heaped)

#### • Standard bucket (2.15m<sup>3</sup>, 2.81yd<sup>3</sup>)

#### • Narrow bucket (1.38m<sup>3</sup>, 1.80yd<sup>3</sup>)

#### • Narrow bucket (1.65m<sup>3</sup>, 2.16yd<sup>3</sup>)

#### • Narrow bucket (1.84m<sup>3</sup>, 2.41yd<sup>3</sup>)

#### • Light duty bucket (2.56m<sup>3</sup>, 3.35yd<sup>3</sup>)

#### • Light duty bucket (2.79m<sup>3</sup>, 3.65yd<sup>3</sup>)

#### • Light duty bucket (3.03m<sup>3</sup>, 3.96yd<sup>3</sup>)

#### • Light duty bucket (3.20m<sup>3</sup>, 4.19yd<sup>3</sup>)

#### • Light duty bucket (3.60m<sup>3</sup>, 4.71yd<sup>3</sup>)

#### • Heavy duty bucket (2.20m<sup>3</sup>, 2.88yd<sup>3</sup>)

#### • Rock bucket (1.80m<sup>3</sup>, 2.35yd<sup>3</sup>)

#### • Rock bucket (2.20m<sup>3</sup>, 2.88yd<sup>3</sup>)

#### • Rock bucket (2.43m<sup>3</sup>, 3.18yd<sup>3</sup>)

#### • Rock bucket (3.20m<sup>3</sup>, 4.19yd<sup>3</sup>)

#### 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

#### Tool kit

#### Operator suit

#### Full track guard

#### Tropical lat

#### Cooling fan

#### Louver type RH side door

#### • Adjustable air suspension seat

#### • Mechanical suspension seat with heater

#### • Adjustable air suspension seat with heater



Some of the photos may include optional equipment.

*Robex* CRAWLER EXCAVATOR Applied Tier 2 Engine

# 500LC-7

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.

**HYUNDAI**  
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**HYUNDAI**  
HEAVY INDUSTRIES CO.,LTD.

We build a better future

# Built for Maximum Power, Performance, Reliability.

A new chapter in construction equipment has now begun.  
Making the dream a reality.



■ Photo may include optional equipment.

## 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 fatigue.
- Console boxes slide forward and backward for improved accessibility.
- The proportional pressure controls reduce unnecessary exertion while ensuring precise operation.
- 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.



1 Wide, Comfortable Operating Space 2 Steel Cover Sunroof 3 Dial Type Engine Speed Switch and Key Switch



### 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.



### Remote Radio Control and Deluxe Cassette

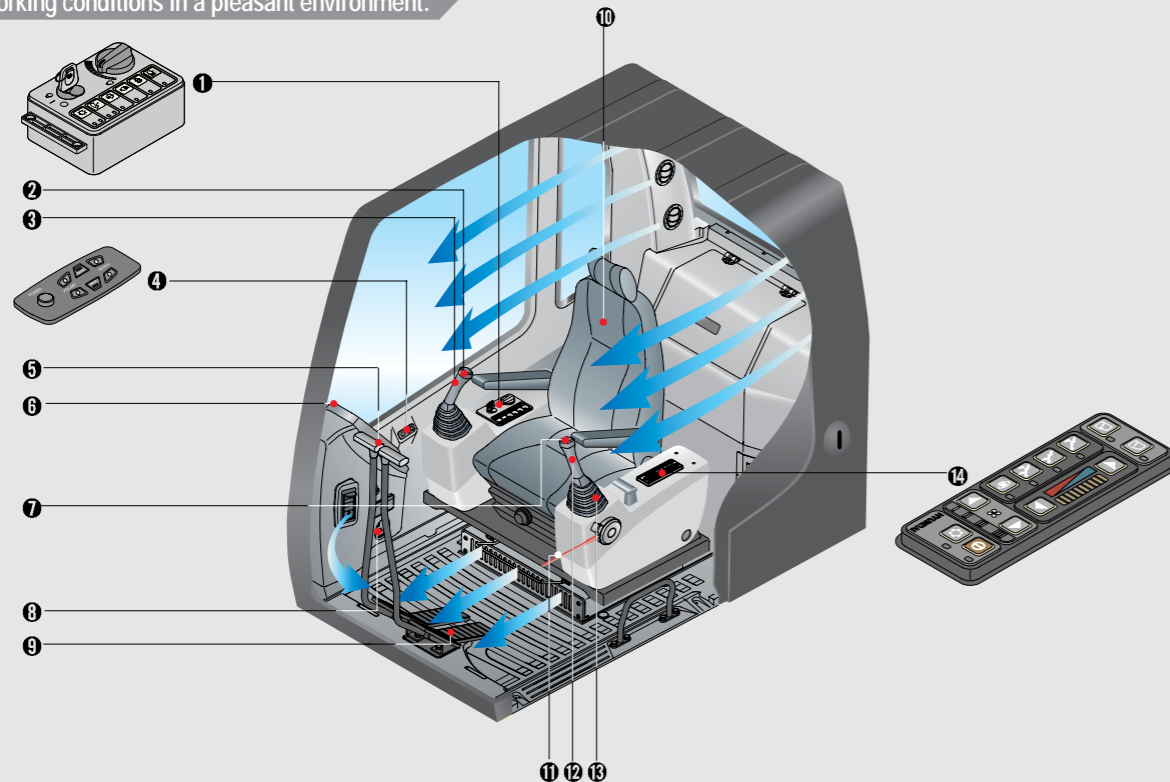


### Raise-up Wiper and Cabin Lights

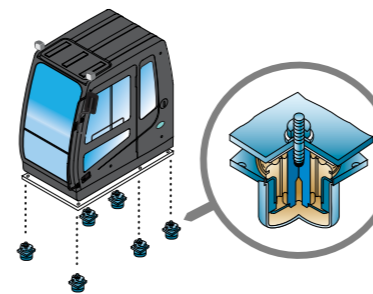
Raise-up wiper has enhanced for the better front view. Cabin Lights enhances safety by brightly lighting the surroundings during night work (optional).



The best working conditions in a pleasant environment.



- 1 Centralized control panel
- 2 Horn button
- 3 Option button
- 4 Remote Radio control
- 5 Travel lever
- 6 Cluster
- 7 One touch decel button
- 8 Hour meter
- 9 Travel pedal
- 10 Fully adjustable suspension seat
- 11 Safety lever
- 12 Power boost button
- 13 Joystick control lever
- 14 Air Conditioner and Heater controller



### 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



### Rear Emergency Exit Window

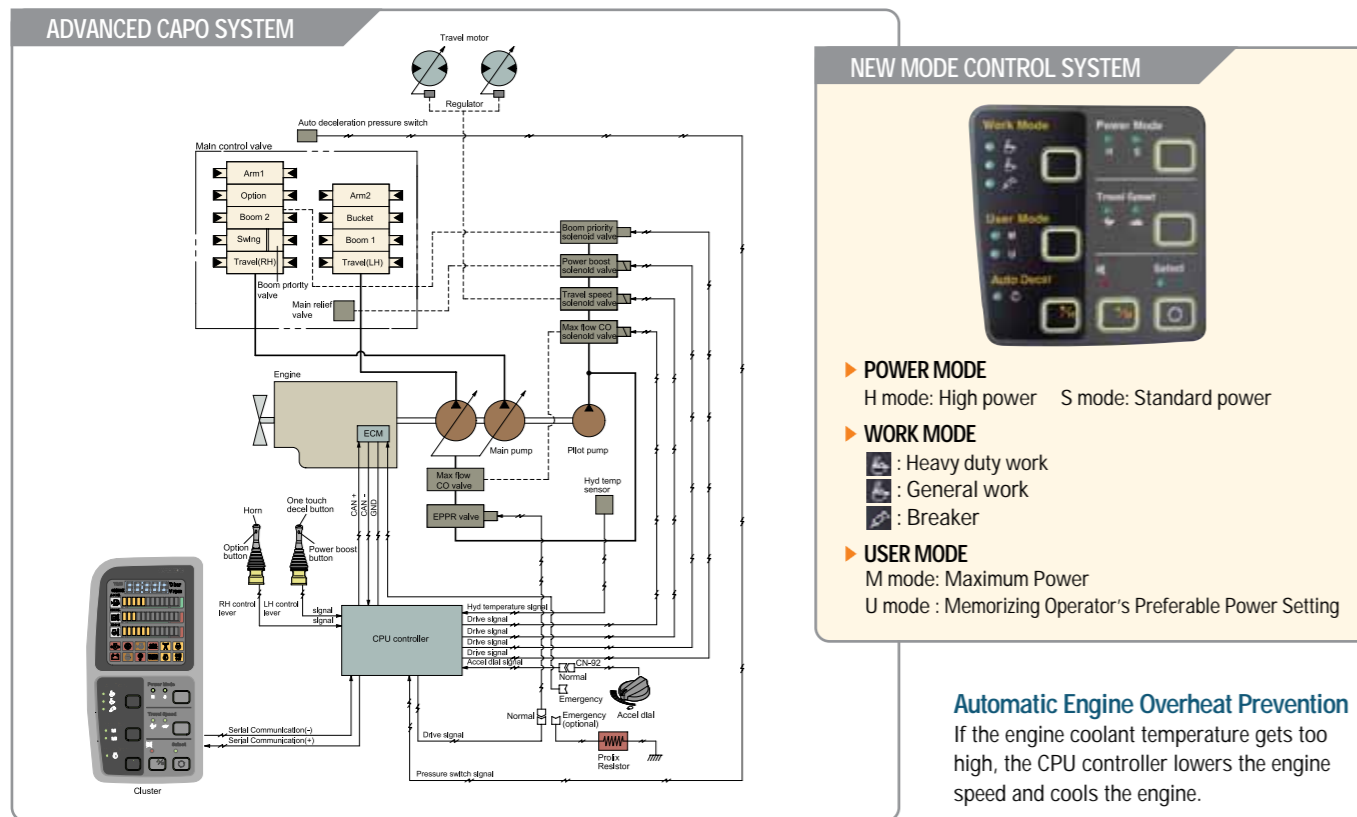
Rear Exit Window is designed with easy exit for operator's safety.



### 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.





### 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 qualities. 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.



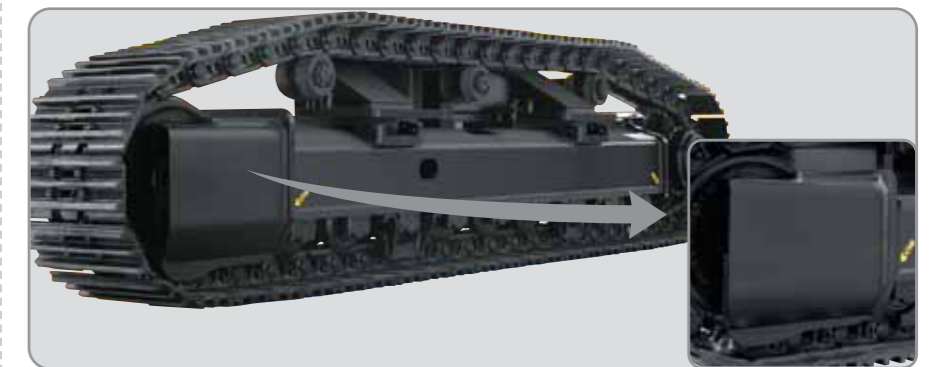
### Strong and Stable Lower Frame

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

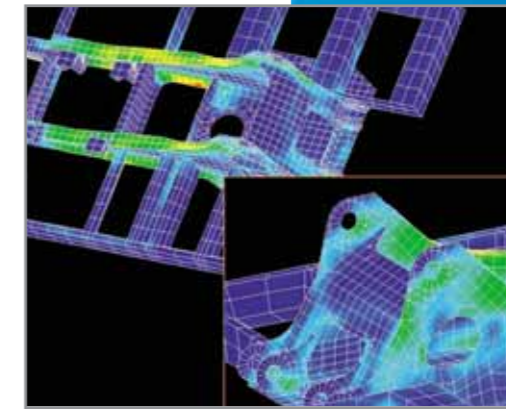
Improved shock absorbing characteristics make stopping a precise and smooth action



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

Handrails and foot steps are applied for safety

Durability of structure proven through FEM (Finite Element Method) analysis and long term durability test.



### 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 Pump

Pump output capacity has been increased.



### Large tool box for extra storage



■ Photo may include optional equipment.

## Engine

Model		Cummins QSM11-C	
Type		Watercooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbocharged, Charger air cooled, Low emission	
Rated flywheel horse power			
SAE	J1995 (gross)	HP(kW)/rpm	353 (263) / 1,900
	J1349 (net)		320 (239) / 1,900
DIN	6271 (gross)	PS(kW)/rpm	358 (263) / 1,900
	6271 (net)		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 (in <sup>3</sup> )	10,800 (659)	
Batteries		2 x 12V x 200AH	
Starting motor		24V, 7.2kw	
Alternator		24V, 50Amp	

## Hydraulic system

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2x380 l/min (100.4 US gpm / 83.6 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump 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/cm <sup>2</sup> (4,690 psi)
Travel	345 kgf/cm <sup>2</sup> (4,910 psi)
Power boost (boom, arm, bucket)	360 kgf/cm <sup>2</sup> (5,120 psi)
Swing circuit	285 kgf/cm <sup>2</sup> (3,770 psi)
Pilot circuit	35 kgf/cm <sup>2</sup> (500 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x rod x stroke	Boom: 2-170 × 115 × 1,570 mm (6.7" × 4.5" × 61.8")
	Arm: 1-190 × 130 × 1,820 mm (7.5" × 5.1" × 71.7")
	Bucket: 1-170 × 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 2.15m<sup>3</sup> (2.81 yd<sup>3</sup>) 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

Type	Shoes		Operating weight kg(lb)	Ground pressure kgf/cm <sup>2</sup> (psi)
	Width mm(in)			
Triple grouser	※600 (24)		48,800 (107,580)	0.84 (11.94)
	700 (28)		49,340 (108,770)	0.73 (10.38)
	750 (30)		49,590 (109,330)	0.69 (9.81)
	800 (32)		49,850 (109,900)	0.65 (9.24)
Double grouser	600 (24)		48,800 (107,580)	0.84 (11.94)
	700 (28)		49,340 (108,770)	0.73 (10.38)

※Standard equipment

## Buckets

SAE heaped m <sup>3</sup> (yd <sup>3</sup> )	1.38 (1.80)	★1.38 (1.80)	1.65 (2.16)	★1.65 (2.16)	1.84 (2.41)	※2.15 (2.81)	2.56 (3.35)	2.79(3.65)	3.03 (3.96)	3.20 (4.19)	3.60 (4.71)	■2.20 (2.88)	◎2.43 (3.18)	◎2.43 (3.18)	◎3.20 (4.19)	◎2.20 (2.88)
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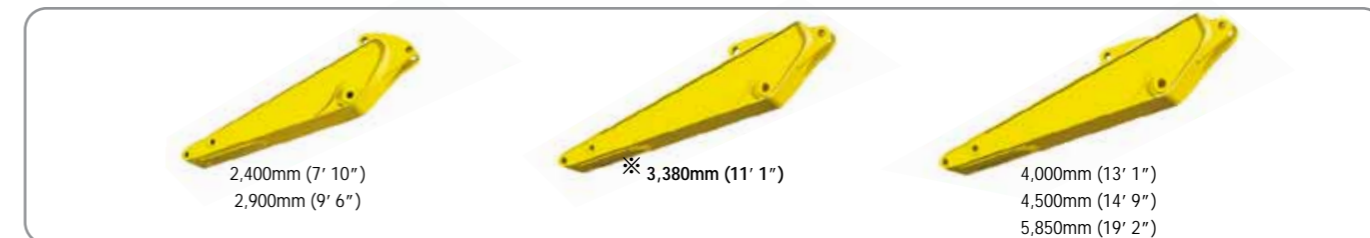
Capacity m <sup>3</sup> (yd <sup>3</sup> )	Width mm (in)		Weight kg(lb)	Recommendation mm(ft.in)											
	Without side cutters	With side cutters		Boom	7,060 (23' 2")					6,550 (21' 6")	9,000 (29' 6")				
SAE heaped	CECE heaped			Arm	2,400 (7' 10")	2,900 (9' 6")	※3,380 (11' 1")	4,000 (13' 1")	4,500 (14' 9")	2,400 (7' 10")	5,850 (19' 2")				
1.38 (1.80)	1.25 (1.63)	995 (39.2)	1145 (45.1)	1420 (3130)	●	●	●	●	■	●	-	-	-	-	-
1.65 (2.16)	1.48 (1.94)	1140 (44.9)	1290 (50.8)	1520 (3350)	●	●	●	■	▲	●	-	-	-	-	-
1.84 (2.41)	1.65 (2.16)	1245 (49.0)	1395 (54.9)	1630 (3590)	●	●	■	■	▲	●	-	-	-	-	-
※2.15 (2.81)	1.92 (2.51)	1415 (55.7)	1565 (61.6)	1740 (3840)	●	●	■	▲	▲	●	-	-	-	-	-
2.56 (3.35)	2.27 (2.97)	1635 (64.4)	1785 (70.3)	1870 (4120)	■	▲	▲	▲	-	■	-	-	-	-	-
2.79 (3.65)	2.47 (3.23)	1760 (69.3)	1910 (75.2)	1960 (4320)	▲	▲	▲	-	-	■	-	-	-	-	-
3.03 (3.96)	2.67 (3.49)	1890 (74.4)	2040 (80.3)	2090 (4610)	-	-	-	-	-	▲	-	-	-	-	-
3.20 (4.19)	2.82 (3.69)	1980 (78.0)	2130 (83.9)	2205 (4860)	-	-	-	-	-	▲	-	-	-	-	-
3.60 (4.71)	3.17 (4.15)	2200 (86.6)	2350 (92.5)	2395 (5280)	-	-	-	-	-	▲	-	-	-	-	-
★1.38 (1.80)	1.20 (1.57)	1100 (43.3)	1250 (49.2)	1360 (3000)	-	-	-	-	-	-	-	-	-	▲	-
★1.65 (2.16)	1.44 (1.88)	1350 (53.1)	1500 (59.1)	1550 (3420)	-	-	-	-	-	-	-	-	-	▲	-
■2.20 (2.88)	1.80 (2.35)	1840 (72.4)	-	2170 (4780)	●	●	■	▲	▲	●	-	-	-	-	-
●1.80 (2.35)	1.50 (1.96)	1560 (61.4)	-	2090 (4610)	●	●	■	▲	▲	●	-	-	-	-	-
◎2.20 (2.88)	1.80 (2.35)	1835 (72.2)	-	2295 (5060)	■	■	▲	▲	▲	●	-	-	-	-	-
◎2.43 (3.18)	2.10 (2.75)	1885 (74.2)	-	2335 (5150)	■	▲	▲	-	-	■	-	-	-	-	-
◎3.20 (4.19)	2.80 (3.66)	2095 (82.5)	-	2900 (6390)	-	-	-	-	-	▲	-	-	-	-	-

※: Standard backhoe bucket / ■: Heavy-duty / ●: Rock bucket-Heavy duty  
★: 9000mm boom, 5850mm arm only

●: Applicable for materials with density of 2,000 kg / m<sup>3</sup> (3,370 lb/ yd<sup>3</sup>) or less  
■: Applicable for materials with density of 1,600 kg / m<sup>3</sup> (2,700 lb/ yd<sup>3</sup>) or less  
▲: Applicable for materials with density of 1,100 kg / m<sup>3</sup> (1,850 lb/ yd<sup>3</sup>) 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.

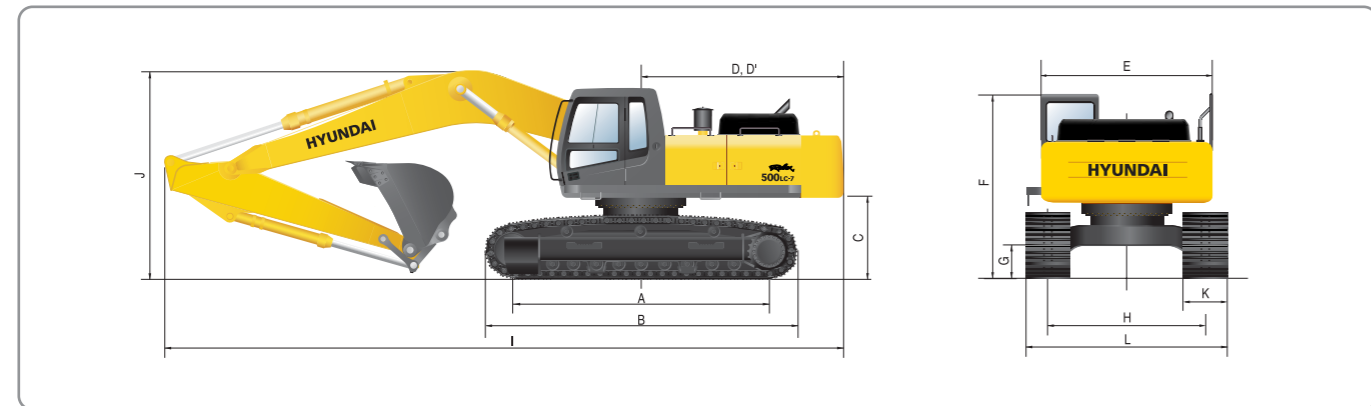


## Digging force

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
			Weight	kg(lb)	2,370 (5220)	2,540 (5600)	2,380 (5250)	
Bucket digging force	SAE	kN	247.1 [269.6]	251.1 [273.9]	253.0 [276.0]	253.0 [276.0]	253.0 [276.0]	[ ]: Power Boost
		kgf	25,200 [27,490]	25,600 [27,930]	25,800 [28,150]	25,800 [28,150]	25,800 [28,150]	
	lbf	55,560 [60,610]	56,440 [61,570]	56,880 [62,050]	56,880 [62,050]	56,880 [62,050]		
	ISO	kN	286.4 [312.4]	290.3 [316.7]	292.2 [318.8]	292.2 [318.8]	292.2 [318.8]	
Arm crowd force	SAE	kgf	29,200 [31,850]	29,600 [32,290]	29,800 [32,510]	29,800 [32,510]	29,800 [32,510]	
		lbf	64,370 [70,220]	65,260 [71,190]	65,700 [71,670]	65,700 [71,670]	65,700 [71,670]	
	ISO	kN	278.5 [303.8]	225.6 [246.1]	192.2 [209.7]	171.6 [187.2]	159.9 [174.4]	
	kgf	28,400 [30,980]	23,000 [25,090]	19,600 [21,380]	17,500 [19,090]	16,300 [17,780]		
lbf	62,610 [68,300]	50,710 [55,320]	43,210 [47,140]	38,580 [42,090]	35,940 [39,210]			
ISO	kN	291.3 [317.7]	235.4 [256.8]	200.1 [218.2]	177.5 [193.6]	164.8 [179.7]		
	kgf	29,700 [32,400]	24,000 [26,180]	20,400 [22,250]	18,100 [19,750]	16,800 [18,330]		
lbf	65,480 [71,430]	52,910 [57,720]	44,970 [49,060]	39,900 [43,530]	37,040 [40,410]			

Note : Arm weight including bucket cylinder and linkage. ※Standard arm

## Dimensions

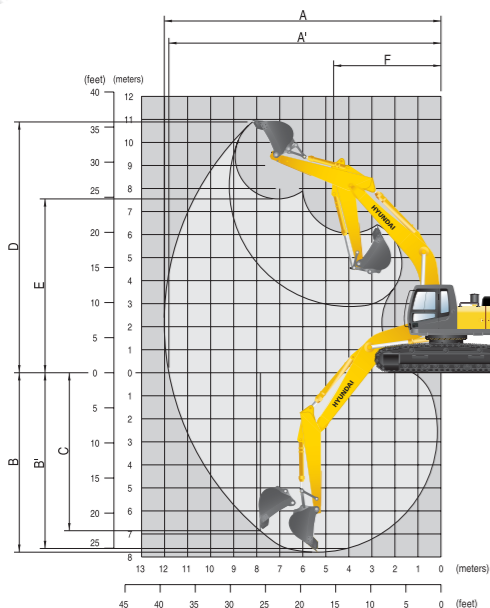


Description	R500LC-7
A Tumbler distance	4,470 (14' 8")
B Overall length of crawler	5,460 (17' 11")
C Ground clearance of CWT	1,500 (4' 11")
D Tail swing radius	3,720 (12' 2")
D' Rear-end length	3,665 (12' 0")
E Overall width of upperstructure	2,980 (9' 9")
F Overall height of cab	3,390 (11' 2")
G Min. ground clearance	770 (2' 6")
H Track gauge(Extended/Retracted)	2,940 (9' 8")/2,380 (7' 10")

		mm (ft · in)				mm (ft · in)			
I	Boom length	※7,060 (23' 2")				6,550 (21' 6") 9,000 (29' 6")			
J	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")	
K	Overall length	12,250 (40' 2")	12,150 (39' 10")	12,030 (39' 6")	12,020 (39' 5")	11,750 (38' 7")	11,750 (38' 7")	13,770 (45' 2")	
L	Overall height of boom	3,970 (13' 0")	3,880 (12' 9")	3,850 (12' 8")	4,100 (13' 5")	4,540 (14' 11")	4,100 (13' 5")	5,190 (17' 0")	
M	Track shoe width	※600 (24")		700 (28")	750 (30")	800 (32")			
N	Overall width	Extended	3,540 (11' 7")	3,640 (11' 11")	3,690 (12' 1")	3,740 (12' 3")			
Retracted		2,990 (9' 9")	3,080 (10' 1")	3,130 (10' 3")	3,180 (10' 5")				

※ Standard Equipment

## Working ranges



		mm (ft · in)				mm (ft · in)			
		※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	11,140 (36' 7")	11,530 (37' 10")	12,080 (39' 8")	12,640 (41' 6")	13,130 (43' 1")	10,590 (34' 9")	16,280 (53' 5")	
A'	Max. digging reach on ground	10,890 (35' 9")	11,290 (37' 0")	11,840 (38' 10")	12,420 (40' 9")	12,910 (42' 4")	10,320 (33' 10")	16,100 (52' 10")	
B	Max. digging depth	6,610 (21' 8")	7,110 (23' 4")	7,590 (24' 11")	8,210 (26' 11")	8,710 (28' 7")	6,130 (20' 1")	11,380 (37' 4")	
B'	Max. digging depth (8' level)	6,430 (21' 1")	6,940 (22' 9")	7,440 (24' 5")	8,080 (26' 6")	8,590 (28' 2")	5,950 (19' 6")	11,280 (37' 0")	
C	Max. vertical wall digging depth	4,880 (16' 0")	4,780 (15' 8")	5,470 (17' 11")	5,980 (19' 7")	6,480 (21' 3")	4,390 (14' 5")	10,070 (33' 0")	
D	Max. digging height	10,640 (34' 11")	10,610 (34' 10")	11,080 (36' 4")	11,290 (37' 0")	11,550 (37' 11")	10,260 (33' 8")	13,930 (45' 8")	
E	Max. dumping height	7,290 (23' 11")	7,350 (24' 1")	7,760 (25' 6")	7,980 (26' 2")	8,230 (27' 0")	6,920 (22' 8")	10,530 (34' 7")	
F	Min. swing radius	5,110 (16' 9")	4,910 (16' 1")	4,830 (15' 10")	4,910 (16' 1")	4,960 (16' 3")	4,650 (15' 3")	5,940 (19' 6")	

※ Standard Equipment

## Lifting capacities

Rating over-front Rating over-side or 360 degree

• Boom: 6.55 m (21' 6") • Arm: 2.40 m (7' 10") • Bucket: 2.15 m<sup>3</sup> SAE heaped • Shoe : 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

Load Point height m(ft)	Load radius								At max. reach			
	3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		7.5m (25.0ft)		Capacity	Reach		
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	kg (lb)	m (ft)		
7.5m 25.0ft	kg								*10150	8880	8.27	
	lb								*22380	19580	(27.1)	
6.0m 20.0ft	kg				*13080	*13080	*11470	10290	*9990	7350	9.07	
	lb				*28840	*28840	*25290	22690	*22020	16200	(29.8)	
4.5m 15.0ft	kg		*19660	*19660	*14710	14420	*12180	9980	*9970	6550	9.53	
	lb		*43340	*43340	*32430	31790	*26850	22000	*21980	14440	(31.3)	
3.0m 10.0ft	kg				*16400	13610	*13000	9580	*9970	6190	9.71	
	lb				*36160	30000	*28660	21120	*21980	13650	(31.9)	
1.5m 5.0ft	kg				*17480	12980	*13580	9240	9990	6160	9.62	
	lb				*38540	28620	*29940	20370	22020	13580	(31.6)	
Ground Line	kg		*23610	19860	*17570	12640	*13590	9010	*10030	6510	9.26	
	lb		*52050	43780	*38740	27870	*29960	19860	*22110	14350	(30.4)	
-1.5m -5.0ft	kg	*26350	*26350	*21600	19940	*16560	12560	*12700	8960	*9750	7370	8.59
	lb	*58090	*58090	*47620	43960	*36510	27690	*28000	19750	*21500	16250	(28.2)
-3.0m -10.0ft	kg	*22190	*22190	*18210	*18210	*14120	12730			*8780	*8780	7.49
	lb	*48920	*48920	*40150	*40150	*31130	28060			*19360	*19360	(24.6)
-4.5m -15.0ft	kg			*12470	*12470							
	lb			*27490	*27490							

• Boom: 7.06 m (23' 2") • Arm: 2.40 m (7' 10") • Bucket: 2.15 m<sup>3</sup> SAE heaped • Shoe : 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

Load Point height m(ft)	Load radius								At max. reach				
	3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		7.5m (25.0ft)		9.0m (30.0ft)	Capacity	Reach		
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	m (ft)		
7.5m 25.0ft	kg						*10340	*10340		*9180	7630	8.92	
	lb						*22800	*22800		*20240	16820	(29.3)	
6.0m 20.0ft	kg				*12670	*12620	*10820	10180		*9080	6440	9.66	
	lb				*27820	*27820	*23850	22440		*20020	14200	(31.7)	
4.5m 15.0ft	kg				*14390	14020	*11680	9780	*10120	7110	*9080	5780	10.10
	lb				*31720	30910	*25750	21560	*22310	15670	*20020	12740	(33.1)
3.0m 10.0ft	kg				*16110	13140	*12580	9330	*10510	6910	8950	5480	10.26
	lb				*35520	28970	*27730	20570	*23170	15230	19730	12080	(33.7)
1.5m 5.0ft	kg				*17120	12530	*13210	8970	*10760	6720	8970	5460	10.18
	lb				*37740	27620	*29120	19780	*23720	14820	19780	12040	(33.4)
Ground Line	kg				*17190	12240	*13340	8740			*9210	5730	9.84
	lb				*37900	26980	*29410	19270			*20300	12630	(32.3)
-1.5m -5.0ft	kg		*20900	19470	*16330	12200	*12750	8680			*9040	6410	9.22
	lb		*46080	42920	*36000	26900	*28110	19140			*19930	14130	(30.2)
-3.0m -10.0ft	kg	*21270	*21270	*18160	*18160	*14430	12370	*11040	8820		*8420	7840	8.22
	lb	*46890	*46890	*40040	*40040	*31810	27270	*24340	19440		*18560	17280	(27.0)
-4.5m -15.0ft	kg			*13760	*13760	*10760	*10760						
	lb			*30340	*30340	*23720	*23720						

• Boom: 7.06 m (23' 2") • Arm: 2.90 m (9' 6") • Bucket: 2.15 m<sup>3</sup> SAE heaped • Shoe : 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

Load Point height m(ft)	Load radius								At max. reach						
	3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		7.5m (25.0ft)		9.0m (30.0ft)	Capacity	Reach				
	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	Rating over-front	Rating over-side or 360 degree	m (ft)				
7.5m 25.0ft	kg						*9570	*9570		*8450	7000	9.38			
	lb						*21100	*21100		*18630	15430	(30.8)			
6.0m 20.0ft	kg						*10150	*10150		*8410	5960	10.08			
	lb						*22380	*22380		*18540	13140	(33.1)			
4.5m 15.0ft	kg				*18310	*18310	*13530	*13530	*9850	*8460	5370	10.50			
	lb				*40370	*40370	*29830	*29830	*24430	21720	*21230	15760	(34.4)		
3.0m 10.0ft	kg				*22070	20540	*15390	13290	*12080	9370	*10130	6900	10.66		
	lb				*48660	45280	*33930	29300	*26630	20660	*22330	15210	18470	11200	(35.0)
1.5m 5.0ft	kg				*23640	19420	*16690	12560	*12870	8940	*10520	6670	8370	5050	10.58
	lb				*52120	42810	*36800	27690	*28370	19710	*23190	14700	18450	11130	(34.7)
Ground Line	kg				*23280	19120	*17100	12160	*13200	8660	*10600	6510	8740	5270	10.26
	lb				*51320	42150	*37700	26810	*29100	19090	*23370	14350	19270	11620	(33.7)
-1.5m -5.0ft	kg	*21630	*21630	*21870	19170	*16590	12030	*12890	8540		*8740	5830	9.66		
	lb	*47690	*47690	*48220	42260	*36570	26520	*28420	18830		*19270	12850	(31.7)		
-3.0m -10.0ft	kg	*24730	*24730	*19470	19440	*15100	12130	*11680	8610		*8420	6980	8.72		
	lb	*54520	*54520	*42920	42860	*33290	26740	*25750	18980		*18560	15390	(28.6)		
-4.5m -15.0ft	kg	*19310	*19310	*15640	*15640	*12190	*12190				*7260	*7260	7.30		
	lb	*42570	*42570	*34480	*34480	*26870	*26870				*16010	*16010	(24.0)		

NOTES  
 1. Lifting capacity is 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.



## Lifting capacities



Rating over-front



Rating over-side or 360 degree

• Boom: 7.06 m (23' 2") • Arm: 3.38 m (11' 1") • Bucket: 2.15 m<sup>3</sup> SAE heaped • Shoe : 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

Load Point height m(ft)	Load radius										At max. reach			
	3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		7.5m (25.0ft)		9.0m (30.0ft)		Capacity	Reach	m (ft)	
7.5m 25.0ft	kg lb										*7940 *17500	6280 13850	10.00 (32.8)	
6.0m 20.0ft	kg lb						*9650 *21270	*9650 *21270	*8840 *19490	7490 16510	*7910 *17440	5420 11950	10.66 (35.0)	
4.5m 15.0ft	kg lb			*17020 *37520	*17020 *37520	*12850 *28330	*12850 *28330	*23480 *22070	*9320 *20550	7270 16030	*7960 *17550	4930 10870	11.05 (36.3)	
3.0m 10.0ft	kg lb			*21080 *46470	*21080 *46470	*14860 *32760	13540 29850	*11740 *20970	9510 *9900	7000 15430	7740 *17060	4690 10340	11.20 (36.7)	
1.5m 5.0ft	kg lb			*23420 *51630	19860 43780	*16410 *36180	12770 28150	*12670 *27930	9050 19950	*10390 *22910	6740 14860	7730 10250	4650 (36.5)	
Ground Line	kg lb			*23730 *52320	19320 42590	*17110 *37720	12290 27090	*13170 *29030	8730 19250	*10620 *23410	6540 14420	8030 17700	4830 10650	
-1.5m -5.0ft	kg lb	*19510 *43010	*19510 *43010	*22730 *50110	19240 42420	*16910 *37280	12090 26650	*13080 *28840	8570 18890	*10370 *22860	6450 14220	8220 18120	5280 11640	10.26 (33.7)
-3.0m -10.0ft	kg lb	*26060 *57450	*26060 *57450	*20660 *45550	19410 42790	*15740 *34700	12110 26700	*12190 *26870	8570 18890	*8000 *17640	6180 13620	6180 13620	9.40 (30.8)	
-4.5m -15.0ft	kg lb	*22420 *49430	*22420 *49430	*17260 *38050	*17260 *38050	*13320 *29370	12340 27210	*9930 *21890	8780 19360	*7220 *15920	*7220 *15920	8.11 (26.6)		
-6.0m -20.0ft	kg lb			*11650 *25680	*11650 *25680									

• Boom: 7.06 m (23' 2") • Arm: 4.00 m (13' 1") • Bucket: 2.15 m<sup>3</sup> SAE heaped • Shoe : 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

Load Point height m(ft)	Load radius										At max. reach				
	3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		7.5m (25.0ft)		9.0m (30.0ft)		10.5m (35.0ft)		Capacity	Reach	m (ft)
7.5m 25.0ft	kg lb							*6430 *14180	*6430 *14180			*7150 *15760	5540 12210	10.64 (34.9)	
6.0m 20.0ft	kg lb							*8080 *17810	7550 16640			*7160 *15790	4820 10630	11.26 (36.9)	
4.5m 15.0ft	kg lb							*9790 *21580	*9790 *21580	*8640 *19050	7280 16050	*5420 *11950	5370 11840	11.62 (38.1)	
3.0m 10.0ft	kg lb			*19190 *42310	*19190 *42310	*13770 *30360	13720 30250	*10980 *24210	9540 21030	*9310 *20530	6970 15370	*7050 *15540	5210 11490	11.77 (38.6)	
1.5m 5.0ft	kg lb			*22280 *49120	20090 44290	*15580 *34350	12820 28260	*12050 *26570	9020 19890	*9920 *21870	6670 14700	*7850 *17310	5050 11130	11.70 (38.4)	
Ground Line	kg lb	*14150 *31200	*14150 *31200	*23440 *51680	19230 42390	*16640 *36680	12200 26900	*12770 *28150	8630 19030	*10320 *22750	6420 14150	*7150 *15760	4920 10850	11.41 (37.4)	
-1.5m -5.0ft	kg lb	*18510 *40810	*18510 *40810	*23100 *50930	18930 41730	*16830 *37100	11890 26210	*12950 *28550	8390 18500	*10320 *22750	6270 13820	*7620 *16800	4620 10190	10.88 (35.7)	
-3.0m -10.0ft	kg lb	*23660 *52160	*23660 *52160	*21570 *47550	18980 41840	*16090 *35470	11820 26060	*12430 *27400	8320 18340	*9680 *21340	6250 13780	*7550 *16640	5320 11730	10.08 (33.1)	
-4.5m -15.0ft	kg lb	*25710 *56680	*25710 *56680	*18800 *41450	*18800 *41450	*14260 *31440	11960 26370	*10880 *23990	8430 18580			*7150 *15760	6680 14730	8.91 (29.2)	
-6.0m -20.0ft	kg lb	*18640 *41090	*18640 *41090	*14220 *31350	*14220 *31350	*10710 *23610	*10710 *23610					*0 *0	0 0	0.00 (0.0)	

NOTES  
 1. Lifting capacity is 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.



## 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 m<sup>3</sup> SAE heaped • Shoe : 600mm(24") triple grouser & 10,200kg(22,490 lb) CWT

Load Point height m(ft)	Load radius										At max. reach						
	3.0m (10.0ft)		4.5m (15.0ft)		6.0m (20.0ft)		7.5m (25.0ft)		9.0m (30.0ft)		10.5m (35.0ft)		Capacity	Reach	m (ft)		
7.5m 25.0ft	kg lb										*6730 *14840	*6730 *14840			*6590 *14530	4990 11000	11.18 (36.7)
6.0m 20.0ft	kg lb										*7500 *16530	*7500 *16530	*4930 *10870	*4930 *10870	*6620 *14590	4370 9630	11.76 (38.6)
4.5m 15.0ft	kg lb										*9110 *20080	*9110 *20080	*7320 *17880	*7320 *17880	*6660 *14680	5390 11880	12.11 (39.7)
3.0m 10.0ft	kg lb			*17640 *38890	*17640 *38890	*12870 *28370	*12870 *28370	*10360 *22840	9600 21160	*8840 *19490	6980 15390	*7820 *17240	5200 11460	12.25 (40.2)			
1.5m 5.0ft	kg lb			*21200 *46740	20380 44930	*14860 *32760	12910 28460	*11540 *25440	9040 19930	*9530 *21010	6640 14640	*8180 *18030	5000 11020	12.18 (40.0)			
Ground Line	kg lb	*14310 *31550	*14310 *31550	*22980 *50660	19250 42440	*16190 *35690	12200 26900	*12400 *27340	8580 18920	*10040 *22130	6360 14020	*8190 *18060	4840 10670	11.91 (39.1)			
-1.5m -5.0ft	kg lb	*17750 *39130	*17750 *39130	*23160 *51060	18780 41400	*16670 *36750	11780 25970	*12770 *28150	8290 18280	*10210 *22510	6170 13600	*7850 *17310	4740 10450	11.41 (37.4)			
-3.0m -10.0ft	kg lb	*22170 *48880	*22170 *48880	*22090 *48700	18710 41250	*16250 *35830	11640 25660	*12510 *27580	8160 17990	*9840 *21690	6100 13450	*7120 *15700	4710 10380	10.65 (34.9)			
-4.5m -15.0ft	kg lb	*27780 *61240	*27780 *61240	*19780 *43610	18920 41710	*14820 *32670	11710 25820	*11360 *25040	8210 18100	*8500 *18740	6190 13650	*6890 *15190	5790 12760	9.56 (31.4)			
-6.0m -20.0ft	kg lb	*21610 *47640	*21610 *47640	*15870 *34990	*15870 *34990	*11960 *26370	*11960 *26370	*8670 *19110	8500 18740			*6000 *13230	*6000 *13230	7.98 (26.2)			

• Boom: 9.00 m (29' 6") • Arm: 5.85 m (19' 2") • Bucket: 1.65 m<sup>3</sup> SAE heaped • Shoe : 600mm(24") triple grouser & 10,700kg(23,590 lb) CWT

Load Point height m(ft)	Load radius										At max. reach								
	3.0m (10.0ft)		5.0m (15.0ft)		7.0m (25.0ft)		9.0m (30.0ft)		11.0m (35.0ft)		13.0m (45.0ft)		Capacity	Reach	m (ft)				
10.0m 35.0ft	kg lb												*4350 *9590	3530 7780	13.66 (44.8)				
8.0m 25.0ft	kg lb												*4910 *10820	*4910 *10820	*2810 *6190	*2810 *6190	*4290 *9460	2860 6310	14.63 (48.0)
6.0m 20.0ft	kg lb												*5320 *11730	*5320 *11730	*4370 *9630	3650 8050	*4290 *9460	2450 5400	15.25 (50.0)
4.0m 15.0ft	kg lb												*9040 *19930	*9040 *19930	*7050 *15540	*7050 *15540	*5880 *12960	4990 11000	15.57 (51.1)
2.0m 5.0ft	kg lb			*16870 *37190	16620 36640	*10900 *24030	9970 21980	*8070 *17790	6630 14620	*6460 *14240	4600 10140	*5410 *11930	3230 7120	15.60 (51.2)					
Ground Line	kg lb			*17270 *38070	15020 33110	*12210 *26920	9020 19890	*8880 *19580	6060 13360	*6930 *15280	4250 9370	5550 12240	3030 6680	15.35 (50.4)					
-2.0m -5.0ft	kg lb	*11700 *25790	*11700 *25790	*18210 *40150	14440 31830	*12720 *28040	8480 18700	*9290 *20480	5680 12520	*7160 *15790	4010 8840	5400 11900	2890 6370	14.80 (48.6)					
-4.0m -15.0ft	kg lb	*15000 *33070	*15000 *33070	*17860 *39370	14390 31720	*12450 *27450	8290 18280	*9180 *20240	5500 12130	*7000 *15430	3890 8580	*4190 *9240	2870 6330	13.91 (45.6)					
-6.0m -20.0ft	kg lb	*18860 *41580	*18860 *41580	*15810 *34860	14660 32320	*11330 *24980	8360 18430	*8400 *18520	5530 12190	*6190 *13650	3940 8690			12.61 (41.4)					
-8.0m -25.0ft	kg lb	*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 is 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.