

**290LC-7**  
**290NLC-7**  
**290LC-7 High-Chassis**

Applied **Tier II** Engine



ROBEX 290LC-7

**Standard Equipment**

- ISO standard cab**
- All-weather steel cab with all-around visibility
  - Safety glass windows
  - Rise-up type windshield wiper
  - Sliding fold-in front window
  - Sliding side window
  - Lockable door
  - Hot & cool box
  - Accessory box & Ash-tray

- Computer Aided Power Optimization (New CAPD) 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(7500 kcal/hr, 30000BTU/hr) & 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 max.
  - Preheat & Engine warming-up
  - One touch decel

- Removable clean out screen for oil cooler
- Door and cab locks, one key
- Two outside rearview mirrors
- Fully adjustable suspension seat with seat belt
- Slidable joystick, pilot-operated
- Automatic swing brake
- Removable reservoir tank
- Water separator & Fuel pre-filter, fuel line
- Boom holding system
- Arm holding system
- Counterweight (5200kg, 11460lb)
- mono boom (6.25m, 20' 6")
- Arm (3.05m, 10' 0")
- Track shoes (600mm, 23.6")
- Track rail guard
- Am/Fm radio and cassette
- Radio remote switch
- Console box tilting system (LH.)
- Three front working light
- Electric horn
- Batteries (2 x 12V x 160AH)
- Battery master switch
- Starting Aid(air grid heater) cold weather

**Optional Equipment**

- Air-conditioner (5000kcal/hr, 20000BTU/hr)
- Sun visor for cabin inside
- Fuel filler pump (36 ℓ /min, 9.5 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 (cramshell, etc)
- Accumulator, work equipment lowering
- 12 volt power supply (DC-DC converter)
- Electric. transducer
- Travel alarm

- Various optional Arms**
- Super short arm (2.10m, 6' 11")
  - Short arm (2.50m, 8' 2")
  - Long arm (3.75m, 12' 4")

- Various optional Buckets (PCSA heaped)**
- Standard bucket (1.27m<sup>3</sup>, 1.66yd<sup>3</sup>)
  - Narrow bucket (0.79m<sup>3</sup>, 1.03yd<sup>3</sup>)
  - Narrow bucket (1.03m<sup>3</sup>, 1.35yd<sup>3</sup>)
  - Light duty bucket (1.50m<sup>3</sup>, 1.96yd<sup>3</sup>)
  - Light duty bucket (1.73m<sup>3</sup>, 2.26yd<sup>3</sup>)
  - Light duty bucket (1.85m<sup>3</sup>, 2.42yd<sup>3</sup>)
  - Heavy duty bucket (1.07m<sup>3</sup>, 1.40yd<sup>3</sup>)
  - Heavy duty bucket (1.27m<sup>3</sup>, 1.66yd<sup>3</sup>)
  - Heavy duty bucket (1.46m<sup>3</sup>, 1.91yd<sup>3</sup>)
  - Rock bucket (1.16m<sup>3</sup>, 1.52yd<sup>3</sup>)

- Cabin anti-vandalism kit**
- Cabin lights**
- FOG(Falling object guards, IOS/DIS 10262)**
- Track shoes**
- Triple grousers shoe (700mm, 28")
  - Triple grousers shoe (800mm, 32")
  - Triple grousers shoe (900mm, 36")

- Lower frame under cover**
- Pre heating system**
- Fuel warmer**
- Tool kit**
- Operator suit**
- Special cowling**
- Air vent type side door



**CRAWLER EXCAVATOR**

**CUMMINS QSB5.9-C Engine :**  
159 kW/213 HP

**Operating Weight :**  
29,300 ~ 33,310 kg (64,600 ~ 73,440 lb)

**Bucket Capacity, PCSA :**  
0.79 ~ 1.85 m<sup>3</sup> (1.03 ~ 2.42 yd<sup>3</sup>)

■ Photo may include optional equipment.

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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## 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 7 series 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.



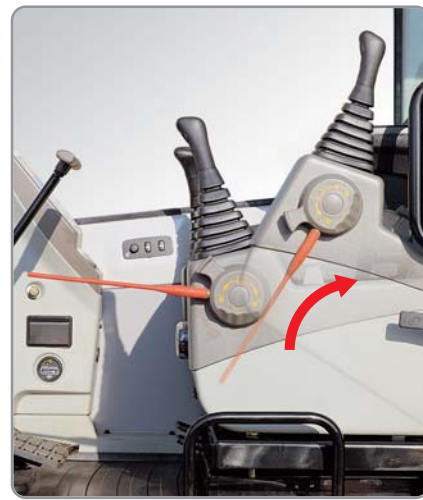
1 2 3  
 1 Wide, Comfortable Operating Space 2 Steel Cover Sunroof 3 Dial Type Engine Speed Switch and Key Switch





### 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

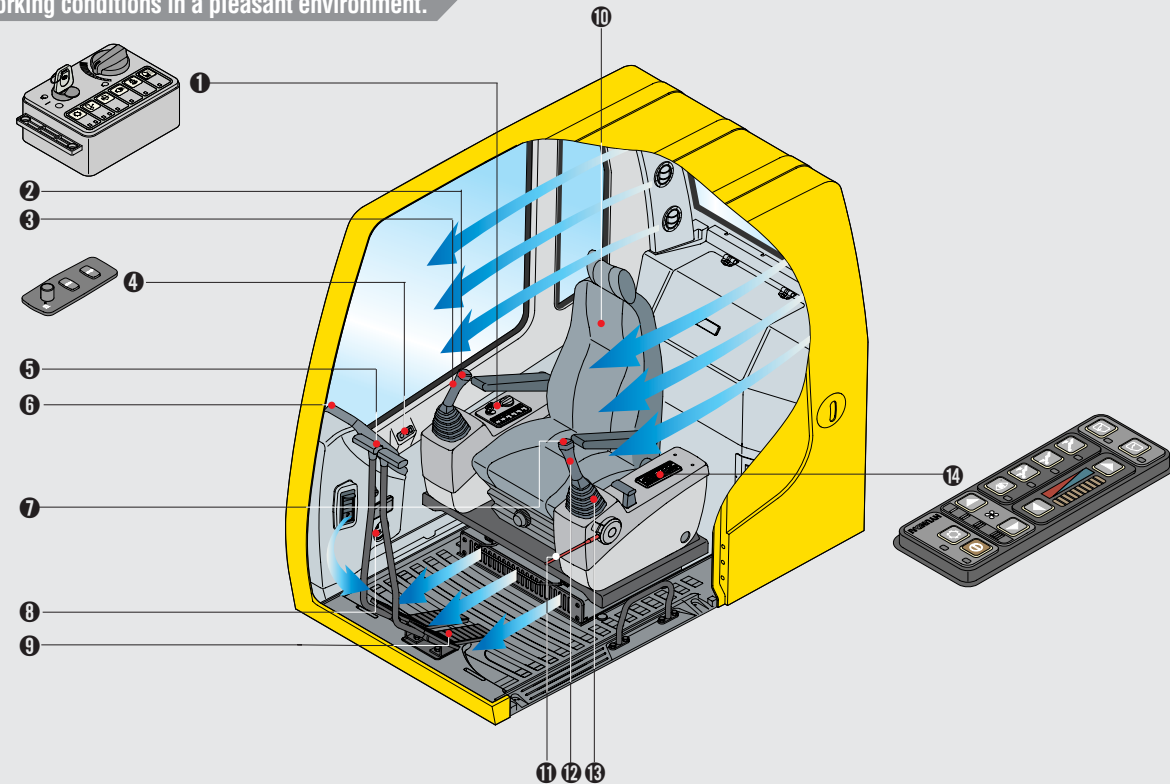


### Rise-up Wiper and Cabin Lights

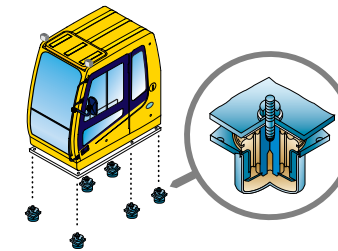
Raise-up wiper has enhanced for the better front view. Cabin Lights enhances safety by brightly lighting the surroundings during night work(optional)



The best working conditions in a pleasant environment.



- 1 Centralized control pannel
- 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

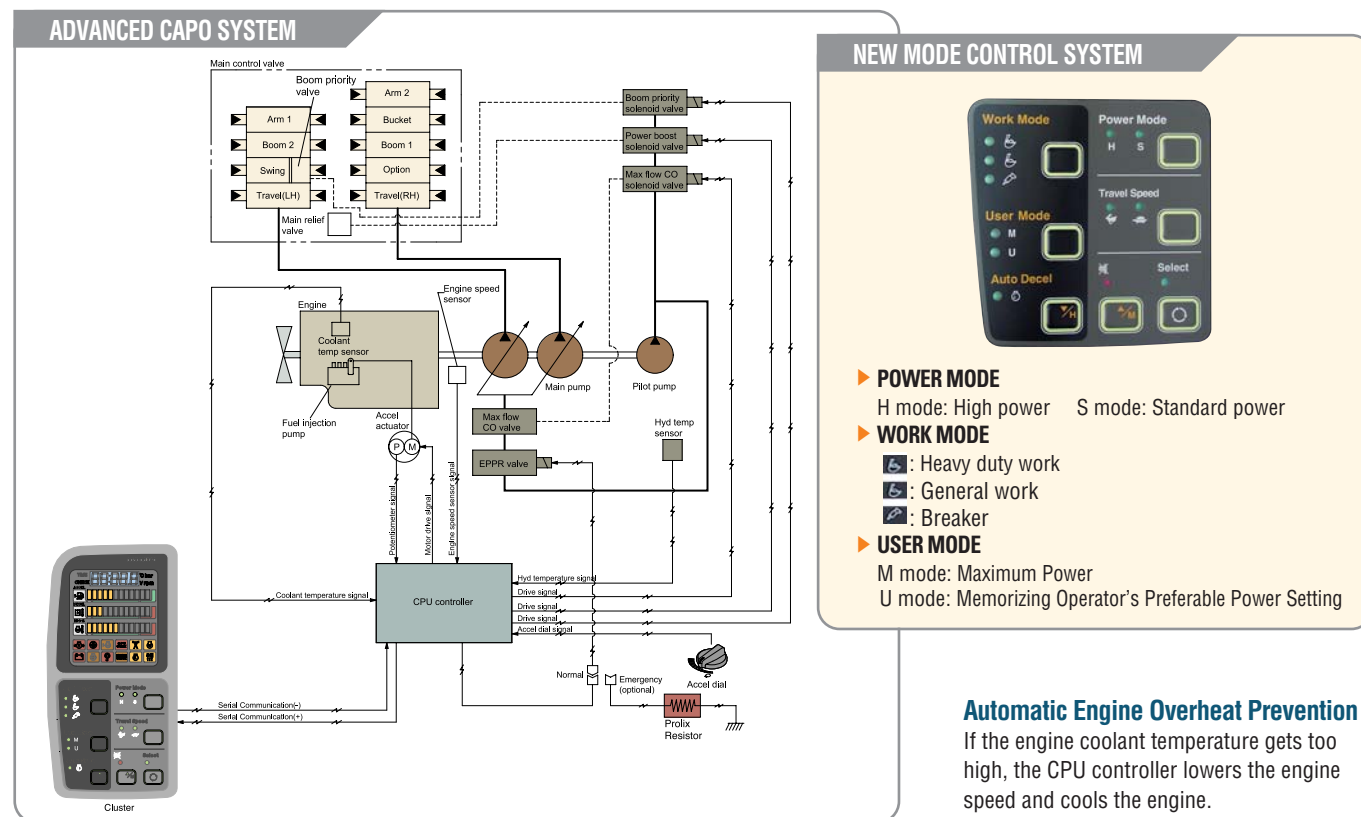
Rear Exit Window is designed with easy exit for operator's safety.



### Hot & Cool Box

The New Cab has even more space for the operator. An Additional storage box is located behind operators 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 the accel actuator to reduce engine speed to 1200rpm. This decreases, fuel consumption and reduced 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 950 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.

### NEW MODE CONTROL SYSTEM

- ▶ **POWER MODE**  
H mode: High power    S mode: Standard power
- ▶ **WORK MODE**  
  - ▶ Heavy duty work
  - ▶ General work
  - ▶ Breaker
- ▶ **USER MODE**  
M mode: Maximum Power  
U mode: Memorizing Operator's Preferable Power Setting

### 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

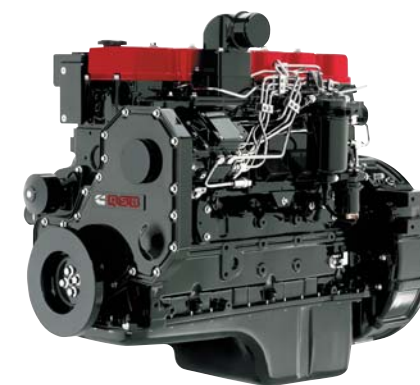
After the engine is started, if the engine coolant temperature is low, the CPU controller increases the engine speed and automatically increases the pump flow rate to warm up the engine more effectively.

### 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 controllability & feeling by shock reducing when starting and stopping.



### CUMMINS QSB5.9-C Engine

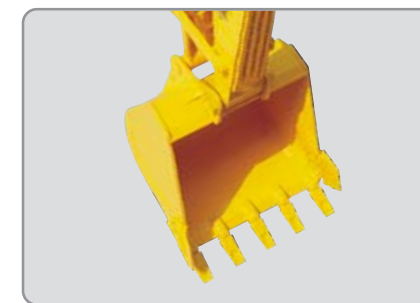
The six cylinders, turbo-charged, 4 cycle, Charger air cooled engine is built for power, reliability, economy and low emissions. This engine meets Tier II emissions regulations.

### The Definition of Progress

The Quantum System B Series 5.9-liter engine combines full-authority electronic controls with the reliable performance. The electronics in the QSB5.9-C have been proven in our high-horsepower products-working in the harshest, most demanding environments-like dusty, non-stop mining operations-while meeting emissions regulations worldwide. The QSB5.9-C is the only engine in its class to feature 24-valve design with centered injectors and a symmetrical piston bowl. The combination of improved airflow and evenly dispersed fuel results in increased power, improved transient reponse and reduced fuel consumption.

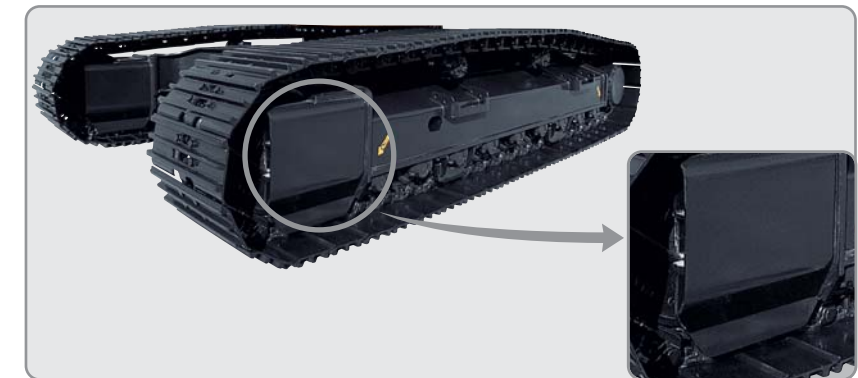
### Reinforced Bucket and Bucket Linkage

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.



### 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.



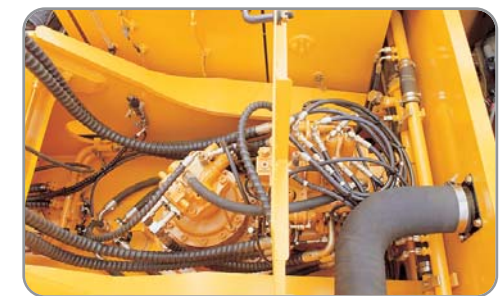
### Strong and Stable Lower Frame

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.



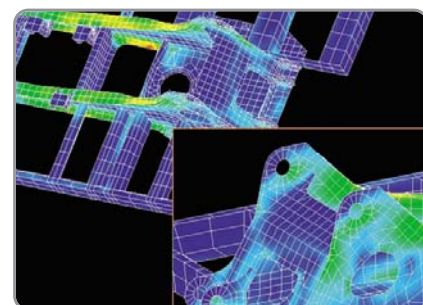
### Powerful and Preciser Swing Control

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.



Large tool box for extra storage



### Highly efficient Hydraulic Pump

Pump output and Hydraulic tank capacity have been increased.

A pilot pump has been installed resulting in improved control sensitivity.

### Side Cover with Left & Right Swing Open Type

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



### 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.



### 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.

\* Photo may include optional equipment.

## Engine

Model		Cummins QSB5.9-C	
Type		Watercooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbo charged, charger air cooled and low emission	
Rated flywheel horse power	SAE	J1995 (gross)	213 HP (159 kW) at 1900 rpm
		J1349 (net)	197 HP (147 kW) at 1900 rpm
	DIN	6271/1 (gross)	216 PS (159 kW) at 1900 rpm
		6271/1 (net)	200 PS (147 kW) at 1900 rpm
Max. torque		94.7 kgf.m(685 lbf.ft) at 1500 rpm	
Bore x stroke		102 x 120 mm (4" x 4.7")	
Piston		5,880 cc (359 cu in)	
Batteries		2 x 12 V x 160 AH	
Starting motor		24 V, 4.5kW	
Alternator		50 Amp	

## Hydraulic system

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2x260 l/min (68.7 US gpm / 57.2 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> (4690 psi)
Travel	330 kgf/cm <sup>2</sup> (4690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm <sup>2</sup> (5120 psi)
Swing circuit	265 kgf/cm <sup>2</sup> (3770 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (500 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x rod x stroke	Boom: 2-140 x 100 x 1465 mm (5.5" x 3.9" x 57.7")
	Arm: 1-150 x 110 x 1765 mm (5.9" x 4.3" x 69.5")
	Bucket: 1-140 x 95 x 1185 mm (5.5" x 3.7" x 46.7")

## Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	27300 kgf (60200 lbf)
Max. travel speed(high) / (low)	5.2 km/hr (3.2 mph) / 3.1 km/hr (1.9 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	11.0 rpm

## Coolant & Lubricant capacity

(refilling)	liter	US gal	UK gal
Fuel tank	480	126.8	105.6
Engine coolant	50.0	13.2	11.0
Engine oil	23.7	6.3	5.2
Swing device	7.0	1.8	1.5
Final drive(each)	11.0	2.9	2.4
Hydraulic system(including tank)	320.0	84.5	70.4
Hydraulic tank	210.0	55.5	46.2

## 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 trak chain with triple grouser shoes.

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	48
No. of carrier roller on each side	2
No. of track roller on each side	9
No. of rail guides on each side	2

## Operating weight (approximate)

Operating weight, including 6.25 m (20' 6") boom, 3.05 m (10' 0") arm, PCSA heaped 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

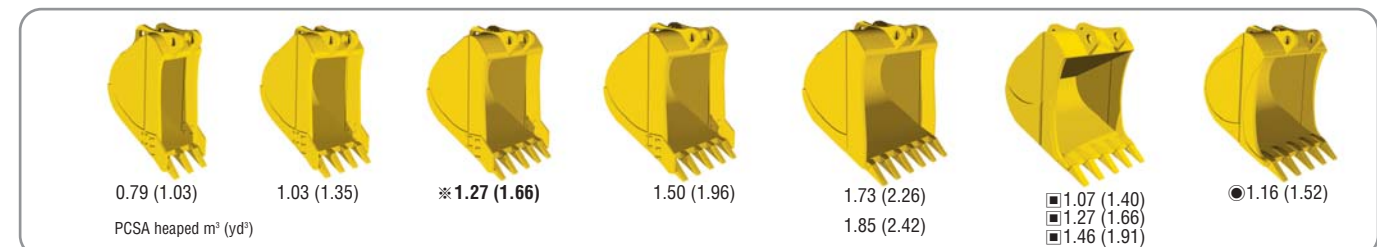
Major component weight	
Upperstructure	7,040 kg (15,520 lb)
Counterweight	5,200 kg (11,460 lb)
Boom (with arm cylinder)	2,670 kg (5,900 lb)

## Operating weight

Type	Shoes		Operating weight		Ground pressure kgf / cm <sup>2</sup> (psi)
	Width mm (in)		kg (lb)		
Triple grouser	* 600 (24)	R290LC-7	29,300 (64,600)	0.56 (7.97)	
		R290NLC-7	29,100 (64,150)	0.55 (7.82)	
		R290LC-7 H/C	32,140 (70,860)	0.62 (8.82)	
	700 (28)	R290LC-7	29,880 (65,870)	0.49 (6.97)	
800 (32)	R290LC-7	30,460 (67,150)	0.44 (6.26)		
	R290LC-7 H/C	33,300 (73,410)	0.48 (6.83)		
	900 (36)	R290LC-7	31,040 (68,430)	0.38 (5.40)	
Double grouser	710 (28)	R290LC-7 H/C	33,310 (73,440)	0.54 (7.68)	

\* Standard equipment

## Buckets



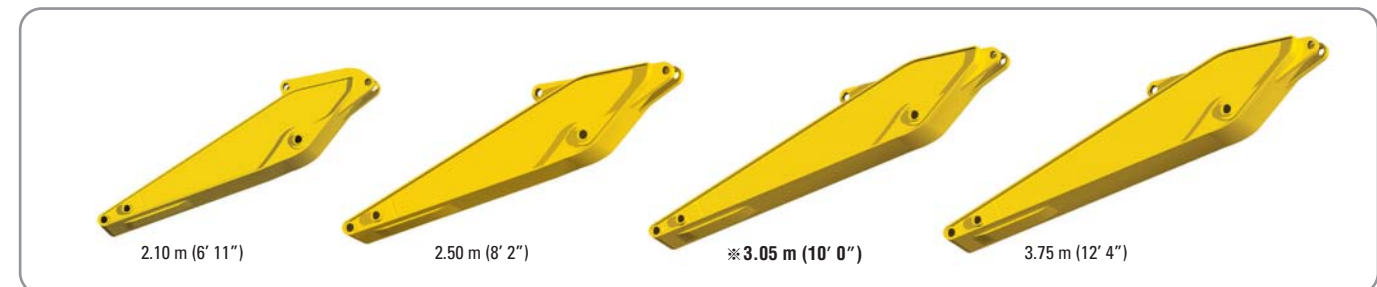
Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight kg(lb)	Recommendation mm(ft.in)			
PCSA heaped	CECE heaped	Without side cutters	With side cutters		Boom	6250 (20' 6")		
				Arm	2100 (6' 11")	2500 (8' 2")	3050 (10' 0")	3750 (12' 4")
0.79 (1.03)	0.70 (0.92)	890 (35.0)	1010 (39.8)	740 (1630)	●	●	●	●
1.03 (1.35)	0.90 (1.18)	1090 (42.9)	1210 (47.6)	850 (1870)	●	●	●	■
* 1.27 (1.66)	1.10 (1.44)	1290 (50.8)	1410 (55.5)	960 (2120)	●	●	■	▲
1.50 (1.96)	1.30 (1.70)	1490 (58.7)	1490 (58.7)	1020 (2250)	●	■	▲	-
1.73 (2.26)	1.50 (1.96)	1700 (66.9)	1610 (63.4)	1120 (2470)	▲	▲	-	-
1.85 (2.42)	1.60 (2.09)	1800 (70.9)	-	1160 (2560)	▲	-	-	-
1.07 (1.40)	0.95 (1.24)	1060 (42.0)	-	1100 (2420)	●	●	●	■
1.27 (1.66)	1.10 (1.44)	1220 (48.0)	-	1130 (2490)	●	●	■	▲
1.46 (1.91)	1.28 (1.67)	1370 (54.0)	-	1260 (2780)	●	■	▲	-
1.16 (1.52)	1.00 (1.05)	1310 (51.6)	-	1260 (2780)	●	●	■	-

\*: Standard backhoe bucket  
 ■: Heavy-duty  
 ●: Rock bucket-Heavy

●: 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

## Arms

Boom and arms are of all-welded, low-stress, full-box section design. 6.25m(20' 6") boom and 2.10m(6' 11"), 2.50m(8' 2"), 3.05m(10' 0"), 3.75m(12' 4") arms are available. Buckets are all-welded, high-strength steel implements.



## Digging force

Arm	Length	mm(ft.in)	2100 (6' 11")	2500 (8' 2")	* 3050 (10' 0")	3750 (12' 4")	Remark
			Weight	kg(lb)	1410 (3110)	1390 (3060)	
Bucket digging force	SAE	kN	168.7 [184]	168.7 [184]	168.7 [184]	168.7 [184]	[ ]: Power Boost
		kgf	17200 [18760]	17200 [18760]	17200 [18760]	17200 [18760]	
	lbf	37920 [41370]	37920 [41370]	37920 [41370]	37920 [41370]		
	ISO	kN	192.2 [209.7]	192.2 [209.7]	192.2 [209.7]	192.2 [209.7]	
Arm crowd force	SAE	kN	169.7 [185.1]	147.1 [160.5]	123.6 [134.8]	108.9 [118.8]	
		kgf	17300 [18870]	15000 [16360]	12600 [13750]	11100 [12110]	
	lbf	38140 [41610]	33070 [36080]	27780 [30310]	24470 [26690]		
	ISO	kN	177.5 [193.6]	154.0 [168.0]	128.5 [140.2]	111.8 [122.0]	
	kgf	18100 [19750]	15700 [17130]	13100 [14290]	11400 [12440]		
	lbf	39900 [43530]	34610 [37760]	28880 [31510]	25130 [27410]		

Note : Arm weight including bucket cylinder and linkage.

\* Standard arm







## Lifting capacities - R290LC-7



Rating over-front



Rating over-side or 360 degree

• Boom: 6.25 m (20' 6") • Arm: 2.50 m (8' 2") • Bucket: 1.27 m<sup>3</sup> PCSA heaped • Shoe : 600mm(24") triple grouser with 5.2ton(11,460 lb) counterweight

Load point height m(ft)	Load radius										At max. reach		
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity	Reach	
7.5 m 25.0 ft	kg										*4880 *10760	4330 9550	8.34 (27.4)
6.0 m 20.0 ft	kg										*5470 *12060	5060 11160	9.19 (30.2)
4.5 m 15.0 ft	kg										*8180 *18030	*8180 *18030	9.69 (31.2)
3.0 m 10.0 ft	kg										*10910 *24050	10440 23020	9.90 (32.5)
1.5 m 5.0 ft	kg										*13040 *28750	9630 21230	9.84 (32.3)
Ground Line	kg										*13950 *30750	9310 20530	9.51 (31.2)
-1.5 m -5.0 ft	kg										*14370 *31680	*14370 *31680	8.87 (29.1)
-3.0 m -10.0 ft	kg										*16270 *35870	*16270 *35870	7.82 (25.7)
-4.5 m -15.0 ft	kg										*15620 *34440	*15620 *34440	

• Boom: 6.25 m (20' 6") • Arm: 3.05 m (10' 0") • Bucket: 1.27 m<sup>3</sup> PCSA heaped • Shoe : 600mm(24") triple grouser with 5.2ton(11,460 lb) counterweight

Load point height m(ft)	Load radius										At max. reach				
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity	Reach	
7.5 m 25.0 ft	kg												*4460 *9830	3830 8440	8.94 (29.3)
6.0 m 20.0 ft	kg												*4910 *10820	4910 10820	9.74 (32.0)
4.5 m 15.0 ft	kg												*5960 *13140	*5960 *13140	10.20 (33.5)
3.0 m 10.0 ft	kg												*9910 *21850	*9910 *21850	10.40 (34.1)
1.5 m 5.0 ft	kg												*12250 *27010	9780 21560	10.35 (34.0)
Ground Line	kg												*9590 *21140	*9590 *21140	10.04 (32.9)
-1.5 m -5.0 ft	kg												*13470 *29700	*13470 *29700	9.44 (31.0)
-3.0 m -10.0 ft	kg												*14060 *31000	*14060 *31000	8.48 (27.8)
-4.5 m -15.0 ft	kg												*18380 *40520	*18380 *40520	6.97 (22.9)

• Boom: 6.25 m (20' 6") • Arm: 3.75 m (12' 4") • Bucket: 1.27 m<sup>3</sup> PCSA heaped • Shoe : 600mm(24") triple grouser with 5.2ton(11,460 lb) counterweight

Load point height m(ft)	Load radius										At max. reach				
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity	Reach	
7.5 m 25.0 ft	kg												*3930 *8660	3310 7300	9.67 (31.7)
6.0 m 20.0 ft	kg												*4160 *9170	*4160 *9170	10.40 (34.1)
4.5 m 15.0 ft	kg												*4710 *10380	*4710 *10380	10.83 (35.5)
3.0 m 10.0 ft	kg												*13490 *29740	*13490 *29740	11.02 (36.2)
1.5 m 5.0 ft	kg												*9980 *22000	*9980 *22000	10.97 (36.0)
Ground Line	kg												*6470 *14260	*6470 *14260	10.68 (35.0)
-1.5 m -5.0 ft	kg												*9310 *20530	*9310 *20530	10.12 (33.2)
-3.0 m -10.0 ft	kg												*12290 *27090	*12290 *27090	9.25 (30.3)
-4.5 m -15.0 ft	kg												*15740 *34700	*15740 *34700	7.92 (26.0)

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.

• Boom: 6.25 m (20' 6") • Arm: 3.05 m (10' 0") • Bucket: 1.27 m<sup>3</sup> PCSA heaped • Shoe : 800mm(32") triple grouser with 5.2ton(11,460 lb) counterweight

Load point height m(ft)	Load radius										At max. reach				
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity	Reach	
7.5 m 25.0 ft	kg												*4460 *9830	4000 8820	8.94 (29.3)
6.0 m 20.0 ft	kg												*4910 *10820	*4910 *10820	9.74 (32.0)
4.5 m 15.0 ft	kg												*5960 *13140	*5960 *13140	10.20 (33.5)
3.0 m 10.0 ft	kg												*9910 *21850	*9910 *21850	10.40 (34.1)
1.5 m 5.0 ft	kg												*12250 *27010	9780 21560	10.35 (34.0)
Ground Line	kg												*9590 *21140	*9590 *21140	10.04 (32.9)
-1.5 m -5.0 ft	kg												*13470 *29700	*13470 *29700	9.44 (31.0)
-3.0 m -10.0 ft	kg												*14060 *31000	*14060 *31000	8.48 (27.8)
-4.5 m -15.0 ft	kg												*18380 *40520	*18380 *40520	6.97 (22.9)



## Lifting capacities - R290NLC-7



Rating over-front



Rating over-side or 360 degree

• Boom: 6.25 m (20' 6") • Arm: 2.10 m (6' 11") • Bucket: 1.27 m<sup>3</sup> PCSA heaped • Shoe : 600mm(24") triple grouser with 5.2ton(11,460 lb) counterweight

Load point height m(ft)	Load radius						At max. reach								
	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity	Reach					
7.5 m 25.0 ft	kg												*5290 *11660	4140 9130	8.01 (26.3)
6.0 m 20.0 ft	kg												*6090 *13430	*6090 *13430	8.90 (29.2)
4.5 m 15.0 ft	kg												*8940 *19710	*8940 *19710	9.42 (30.9)
3.0 m 10.0 ft	kg												*11660 *25710	*11660 *25710	9.64 (31.6)
1.5 m 5.0 ft	kg												*13520 *29810	8420 18560	9.58 (31.4)
Ground Line	kg												*14060 *31000	8220 18120	9.23 (30.3)
-1.5 m -5.0 ft	kg												*13470 *29700	*13470 *29700	8.57 (28.1)
-3.0 m -10.0 ft	kg												*17570 *38740	17570 38740	7.47 (24.5)
-4.5 m -15.0 ft	kg												*14150 *31200	*14150 *31200	

• Boom: 6.25 m (20' 6") • Arm: 2.50 m (8' 2") • Bucket: 1.27 m<sup>3</sup> PCSA heaped • Shoe : 600mm(24") triple grouser with 5.2ton(11,460 lb) counterweight

Load point height m(ft)	Load radius										At max. reach				
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity	Reach			
7.5 m 25.0 ft	kg												*4880 *10760	3920 8640	8.34 (27.4)
6.0 m 20.0 ft	kg												*5470 *12060	4580 10100	9.19 (30.2)
4.5 m 15.0 ft	kg												*8180 *18030	*8180 *18030	9.69 (31.8)
3.0 m 10.0 ft	kg												*10910 *24050	10340 23020	9.90 (32.5)
1.5 m 5.0 ft	kg												*9980 *22000	*9980 *22000	10.97 (36.0)
Ground Line	kg												*13040 *28750	8550 18850	10.68 (35.0)
-1.5 m -5.0 ft	kg												*13470 *29700	*13470 *29700	9.84 (32.3)
-3.0 m -10.0 ft	kg												*13470 *29700	*13470 *29700	9.51 (31.2)
-4.5 m -15.0 ft	kg												*15620 *34440	*15620 *34440	8.87 (29.1)

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.

