



Robex 290LC-7A

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 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(7,500 kcal/hr, 30,000BTU/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 boost
 - Engine warming-up
 - Auto(One touch) decel
 - Preheat(Air gride heater)

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 gride heater) cold weather

Fuel warmer

Optional Equipment

Air-conditioner (5000 kcal/hr, 20,000 BTU/hr)

FATC(Full Automatic Temperature Control)

Sun visor for cabin inside

Fuel filler pump (35 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)

Quick Coupler

Accumulator, work equipment lowering

12 volt power supply (DC-DC converter)

Electric transducer

Travel alarm

CD Player

Various optional Arms

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

Various optional Buckets (SAE heaped)

- Standard bucket (1.27 m³, 1.66 yd³)
- Narrow bucket (0.79 m³, 1.03 yd³)
- Narrow bucket (1.03 m³, 1.35 yd³)
- Light duty bucket (1.50 m³, 1.96 yd³)
- Light duty bucket (1.73 m³, 2.26 yd³)
- Light duty bucket (1.85 m³, 2.42 yd³)
- Heavy duty bucket (1.07 m³, 1.40 yd³)
- Heavy duty bucket (1.15 m³, 1.50 yd³)
- Heavy duty bucket (1.27 m³, 1.66 yd³)
- Heavy duty bucket (1.46 m³, 1.91 yd³)
- Rock bucket (1.16 m³, 1.52 yd³)
- Rock bucket (1.49 m³, 1.95 yd³)

Cabin lights

Cabin FOPS/FOG(ISO/DIS 10262)

Cabin Roof-cover Transparent

Track shoes

- Triple grousers shoe (700 mm, 28")
- Triple grousers shoe (800 mm, 32")
- Triple grousers shoe (900 mm, 36")

Lower frame under cover

Pre heating system

Tool kit

Operator suit

Tropical Kit

- Fan drive ratio(1.1:1)
- Louver side cover(R/H) side

Seat

- Adjustable air suspension seat
- Adjustable air suspension seat with heater
- Mechanical suspension with heater



*Photo may include optional equipment.

We build a better future

Robex CRAWLER EXCAVATOR Applied Tier 3 Engine

290LC-7A

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards. All imperial measurements rounded off to the nearest pound or inch.

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HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

Built for Maximum Power, Performance, Reliability.

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

Robex 290LC-7A



Photo may include optional equipment.

Operator's Comfort is Foremost.
Wide Cab Exceeds Industry Standards.

Technology in Cab Design



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

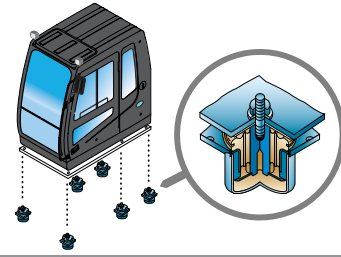
Remote Radio Control and Deluxe Cassette



Robex 290LC-7A



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.



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.



Operating Environment

Maximum Protection



▲ 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.

◀ 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 4 switches.

Left	Power boost One touch deceleration Dummy
Right	Horn/Optional/Dummy



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.



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



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)

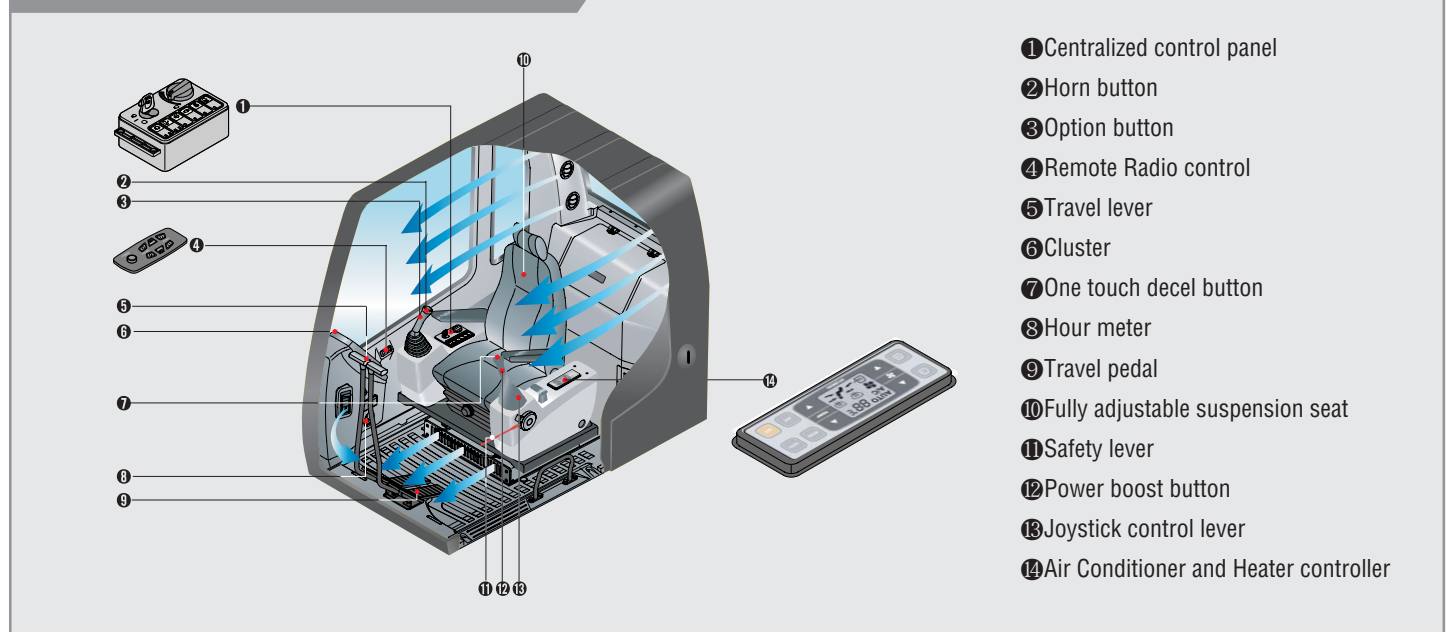


Wide, Comfortable Operating Space
All the controls are designed and positioned according to the latest ergonomic research. Reinforced pillars have also been added for greater cab rigidity.

Smooth Travel Pedal and Foot Rests



The best working conditions in a pleasant environment.





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 re-starting 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.

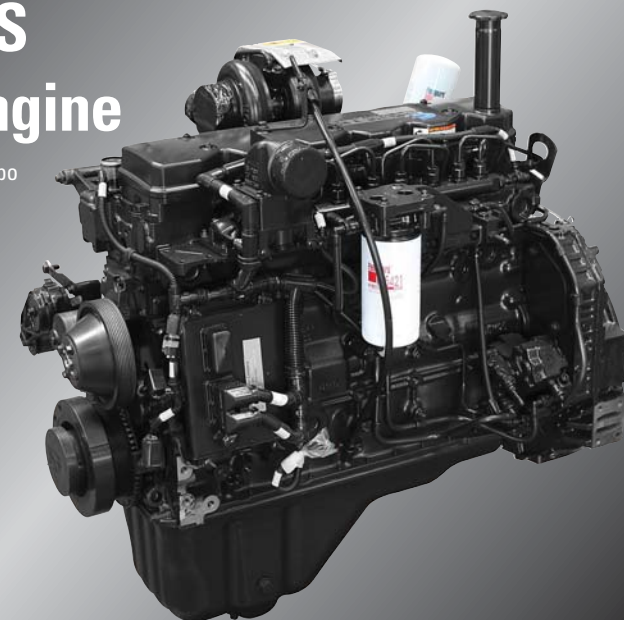


Automatic Warming-up System

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.

CUMMINS QSB6.7 Engine

The six cylinder 4 cycle Turbo Charged Engine with Charged Air Cooling, Has High Power output, Reliability, economical, and low emission. This engine meets Tier III emissions regulations.



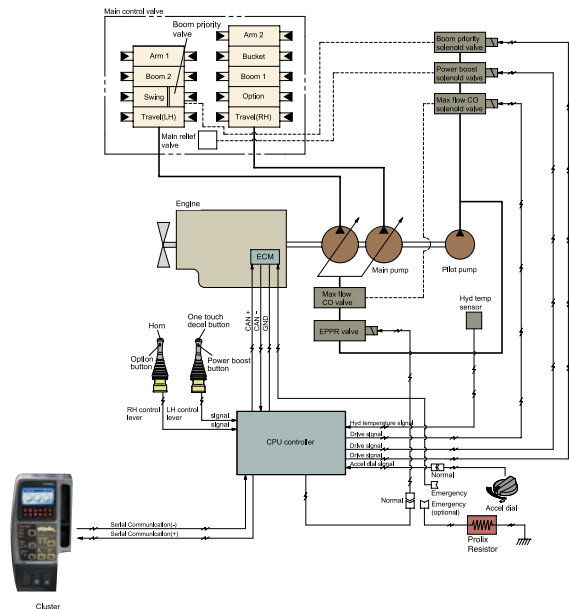
The Definition of Progress

The Quantum System B Series 6.7-liter engine combines full-authority electronic controls with the reliable performance. The electronics with the QSB6.7 have been proven with our high-horsepower products-working in the harshest, most demanding environments-search as dusty, non-stop mining operations while meeting emissions regulations worldwide. The QSB6.7 features 24 valve designed with centered injectors and symmetrical piston bowl. The combination of improved airflow and evenly dispersed fuel results in increased power, improved transient reponse and reduced fuel consumption.

Advanced Hydraulic System

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.

One Touch Decel System

When the one touch decel switch is pressed, CPU controller controls the accel actuator to reduce engine speed to 800 rpm. And then the one touch decel switch is pressed again, the engine speed recovers.

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.

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.

Arm Flow Regeneration System

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

Hydraulic Damper in Travel Pedal

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

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 1050rpm. This decreases fuel consumption and reduces cab noise levels.

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

Increased Higher Performance



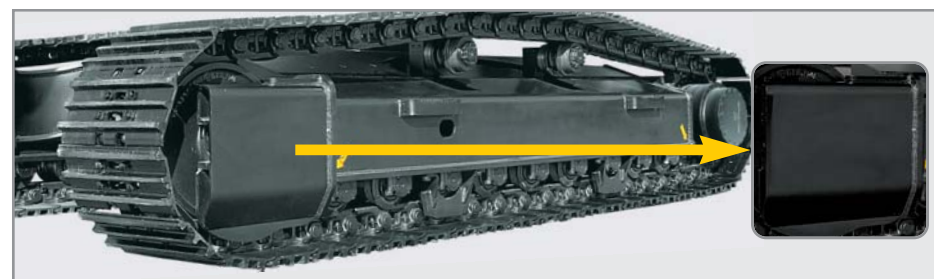
Reinforced Bucket and Bucket Linkage

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)

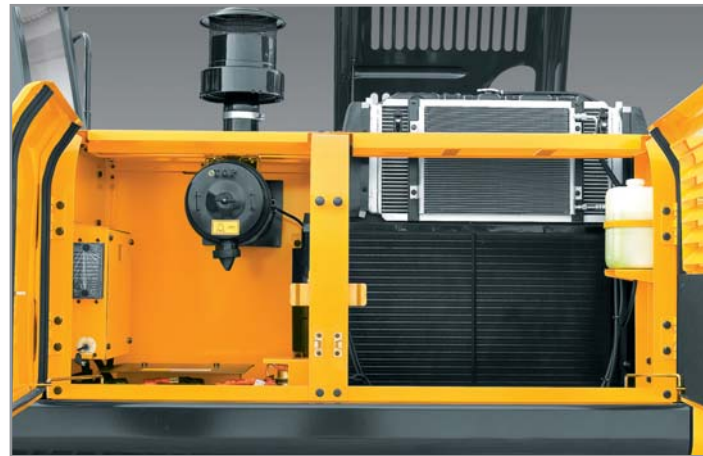
Powerful and Preciser Swing Control

Improved shock absorbing characteristics make stopping a precise and smooth action



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

Reliability & Serviceability



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.

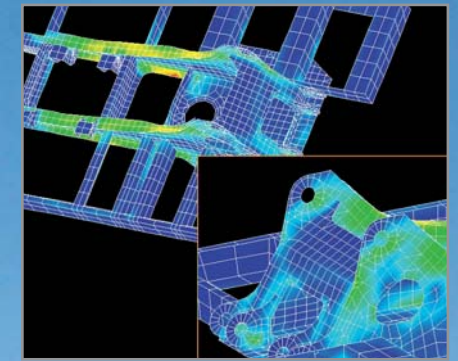


Highly efficient Hydraulic Pump

Pump output capacity has been increased.



Large tool box for extra storage



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

*Photo may include optional equipment.

Engine

Model		Cummins QSB6.7	
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)	227 HP (169 kW) at 1,900 rpm
		J1349 (net)	197 HP (147 kW) at 1,900 rpm
	DIN	6271/1 (gross)	230 PS (169 kW) at 1,900 rpm
		6271/1 (net)	200 PS (147 kW) at 1,900 rpm
Max. torque		96.8 kgf-m(700 lbf-ft) at 1,400 rpm	
Bore x stroke		107 x 124 mm (4.2" x 4.9")	
Piston displacement		6,700 cc (409 cu in)	
Batteries		2 x 12 V x 160 AH	
Starting motor		24 V, 4.5kW	
Alternator		24 V, 50 Amp	

Hydraulic system

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2x252l/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 ² (4690 psi)
Travel	330 kgf/cm ² (4690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm ² (5120 psi)
Swing circuit	265 kgf/cm ² (3770 psi)
Pilot circuit	35 kgf/cm ² (498 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x stroke	Boom: 2-140 x 1465 mm (5.5" x 57.7") Arm: 1-150 x 1765 mm (5.9" x 69.5") Bucket: 1-140 x 1185 mm (5.5" 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	27,300 kgf (60,200 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	10.2 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	24	6.3	5.3
Swing device	11.0	1.8	1.5
Final drive(each)	5.5	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, SAE heaped 1.27 m³ (1.66 yd³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

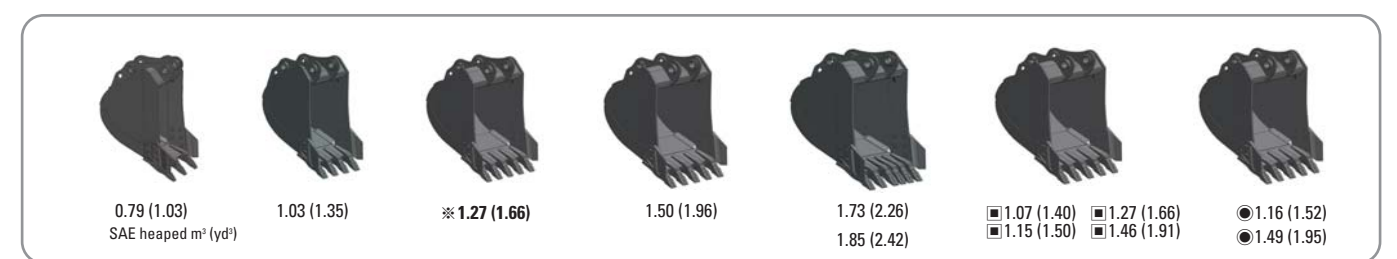
Major component weight	
Upperstructure	7,040 kg (15,520 lb)
Counterweight	5,200 kg (11,460 lb)
Boom (with arm cylinder)	2,670 kg (5,900 lb)

Operating weight

Type	Shoes		Operating weight		Ground pressure	
	Width mm(in)		kg(lb)		kgf/cm ² (psi)	
Triple grouser	※ 600 mm (24")	R290LC-7A	29,300 (64,600)	0.56 (7.97)		
		R290NLC-7A	29,100 (64,150)	0.55 (7.82)		
		R290LC-7A H/C	32,140 (70,860)	0.62 (8.82)		
Triple grouser	700 mm (28")	R290NLC-7A	29,880 (65,870)	0.49 (6.97)		
		R290LC-7A H/C	32,720 (72,140)	0.54 (7.68)		
		R290NLC-7A	30,460 (67,150)	0.44 (6.26)		
Triple grouser	800 mm (32")	R290LC-7A H/C	33,300 (73,410)	0.48 (6.83)		
		R290NLC-7A	31,040(68,430)	0.38 (5.40)		
Double grouser	710 mm (28")	R290LC-7A H/C	33,310(73,440)	0.54 (7.68)		

※ Standard equipment

Buckets



Capacity m ³ (yd ³)		Width mm (in)		Weight kg(lb)	Recommendation mm(ft.in)				
SAE 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)	790(1740)	●	●	●	●	
1.03 (1.35)	0.90 (1.18)	1090 (42.9)	1210 (47.6)	890(1960)	●	●	●	■	
※ 1.27 (1.66)	1.10 (1.44)	1290 (50.8)	1410 (55.5)	1010(2230)	●	●	■	▲	
1.50 (1.96)	1.30 (1.70)	1490 (58.7)	1610 (63.4)	1080(2380)	●	■	▲	-	
1.73 (2.26)	1.50 (1.96)	1700 (66.9)	1820 (71.7)	1170(2580)	▲	▲	-	-	
1.85 (2.42)	1.60 (2.09)	1800 (70.9)	1920 (75.6)	1230(2710)	▲	-	-	-	
■ 1.07 (1.40)	0.95 (1.24)	1150 (45.3)	-	1120(2470)	●	●	●	■	
■ 1.15 (1.50)	1.00 (1.31)	1210 (47.6)	-	1160(2560)	●	●	●	■	
■ 1.27 (1.66)	1.10 (1.44)	1310 (51.6)	-	1240(2730)	●	●	▲	▲	
■ 1.46 (1.91)	1.28 (1.67)	1460 (57.5)	-	1320(2910)	●	■	▲	-	
● 1.16 (1.52)	1.00 (1.31)	1340 (52.8)	-	1280(2820)	●	●	■	▲	
● 1.49 (1.95)	1.28 (1.67)	1620 (63.8)	-	1440(3170)	●	■	▲	-	

※: Standard backhoe bucket

■: Heavy-duty

●: Rock bucket-Heavy

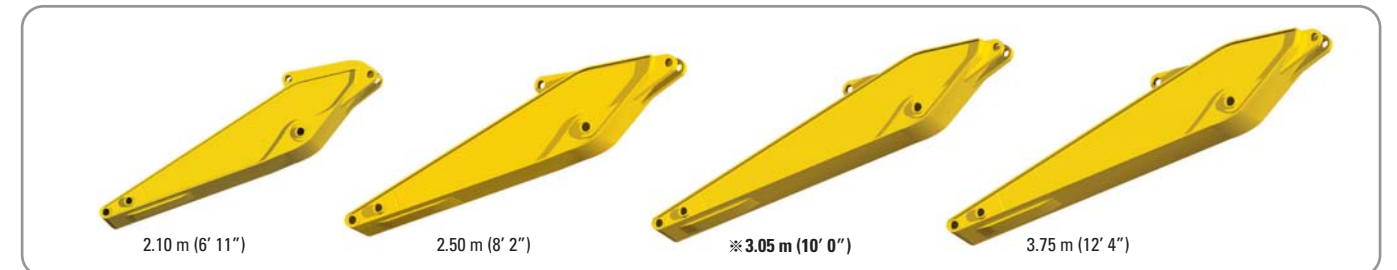
●: Applicable for materials with density of 2,000 kg / m³ (3,370 lb/ yd³) or less

■: 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

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

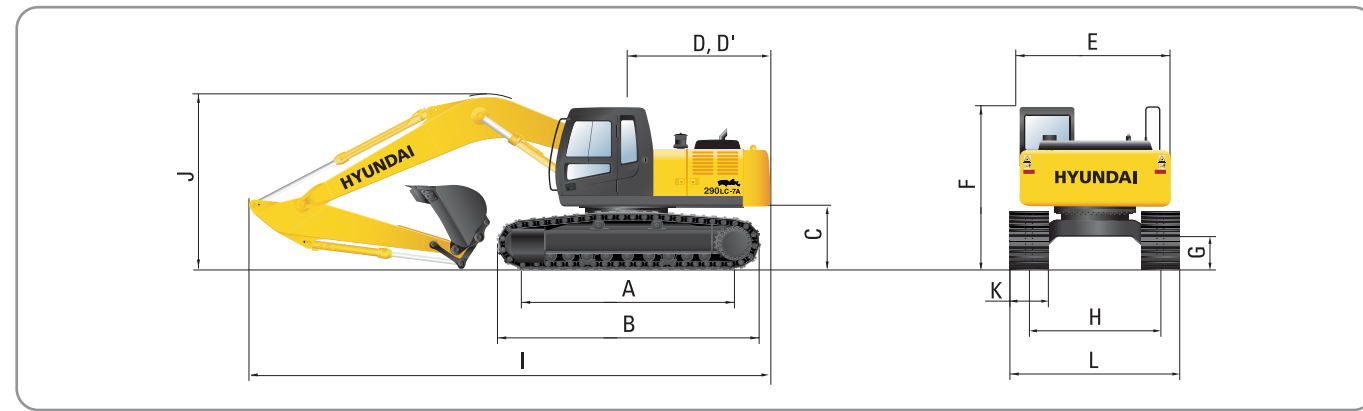
Arm	Length	mm(ft.in)	2100 (6' 11")	2500 (8' 2")	※ 3050 (10' 0")	3750 (12' 4")	Remark
			Weight	kg(lb)	1410 (3110)	1390 (3060)	
Bucket digging force	SAE	kN	168.7 [184]	168.7 [184]	168.7 [184]	168.7 [184]	[]: Power Boost
		kgf	17200 [18760]	17200 [18760]	17200 [18760]	17200 [18760]	
		lbf	37920 [41370]	37920 [41370]	37920 [41370]	37920 [41370]	
	ISO	kN	192.2 [209.7]	192.2 [209.7]	192.2 [209.7]	192.2 [209.7]	
		kgf	19600 [21380]	19600 [21380]	19600 [21380]	19600 [21380]	
		lbf	43210 [47140]	43210 [47140]	43210 [47140]	43210 [47140]	
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

Dimensions & Working ranges

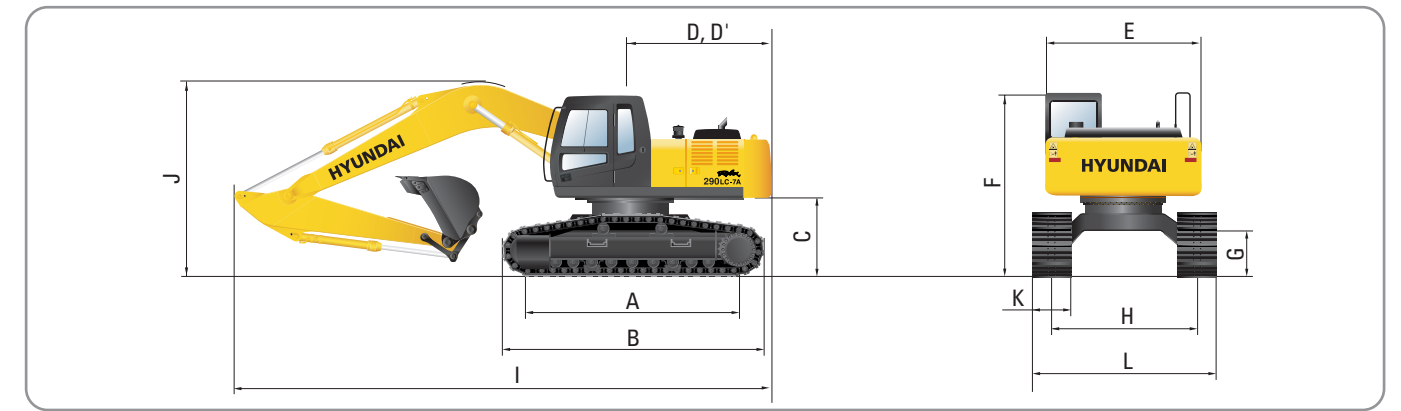
Dimensions - R290LC-7A, R290NLC-7A



		mm (ft · in)	
A	Tumbler distance	R290LC-7A R290NLC-7A	4030 (13' 3") 4030 (13' 3")
B	Overall length of crawler		4940 (16' 2")
C	Ground clearance of counterweight		1190 (3' 11")
D	Tail swing radius		3200 (10' 6")
D'	Rear-end length		3120 (10' 3")
E	Overall width of upperstructure		2980 (9' 9")
F	Overall height of cab		3010 (9' 11")
G	Min. ground clearance		500 (1' 8")
H	Track gauge	R290LC-7A R290NLC-7A	2600 (8' 6") 2390 (7' 10")

		mm (ft · in)				
	Boom length	※ 6250 (20' 6")				
	Arm length	2100 (6' 11")	2500 (8' 2")	※ 3050 (10' 0")	3750 (12' 4")	
I	Overall length	10700 (35' 1")	10650 (34' 11")	10560 (34' 8")	10630 (34' 11")	
J	Overall height of boom	3590 (11' 9")	3470 (11' 5")	3290 (10' 10")	3500 (11' 6")	
K	Track shoe width	※ 600 (24")	700 (28")	800 (32")	900 (36")	
L	Overall width	R290LC-7A	3200 (10' 6")	3300 (10' 10")	3400 (11' 2")	3500 (11' 6")
		R290NLC-7A	2990 (9' 10")	-	-	-

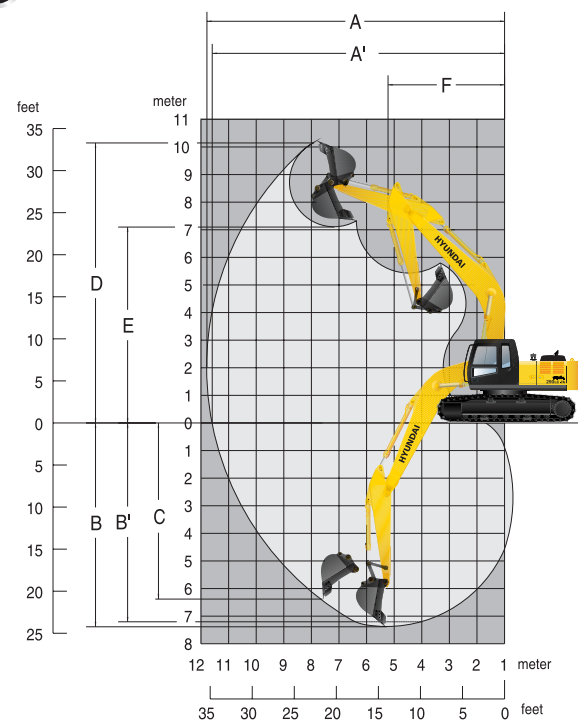
Dimensions - R290LC-7A High Chassis



		mm (ft · in)	
A	Tumbler distance	4030 (13' 3")	
B	Overall length of crawler	4950 (16' 3")	
C	Ground clearance of counterweight	1500 (4' 11")	
D	Tail swing radius	3200 (10' 6")	
D'	Rear-end length	3120 (10' 3")	
E	Overall width of upperstructure	2980 (9' 9")	
F	Overall height of cab	3380 (11' 1")	
G	Min. ground clearance	765 (2' 6")	
H	Track gauge	2870 (9' 5")	

		mm (ft · in)				
	Boom length	※ 6250 (20' 6")				
	Arm length	2100 (6' 11")	2500 (8' 2")	※ 3050 (10' 0")	3750 (12' 4")	
I	Overall length	10690 (35' 1")	10610 (34' 10")	10430 (34' 3")	10530 (34' 7")	
J	Overall height of boom	3740 (12' 3")	3590 (11' 9")	3350 (11' 0")	3510 (11' 6")	
K	Track shoe	Type	Triple grouser	Triple grouser	Triple grouser	Double grouser
		Width	※ 600 (24")	700 (28")	800 (32")	710 (28")
L	Overall width	3470 (11' 5")	3570 (11' 9")	3670 (12' 0")	3580 (11' 9")	

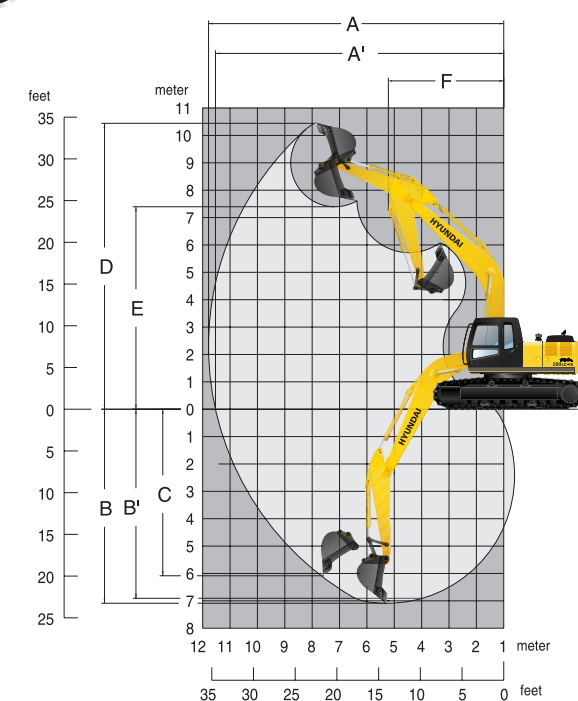
Working ranges - R290LC-7A, R290NLC-7A



		mm (ft · in)			
	Boom length	※ 6250 (20' 6")			
	Arm length	2100 (6' 11")	2500 (8' 2")	※ 3050 (10' 0")	3750 (12' 4")
A	Max. digging reach	10020 (32' 10")	10280 (33' 7")	10820 (35' 6")	11400 (37' 5")
A'	Max. digging reach on ground	9820 (32' 3")	10080 (33' 1")	10620 (34' 10")	11220 (36' 10")
B	Max. digging depth	6440 (21' 1")	6840 (22' 5")	7500 (24' 7")	8090 (26' 7")
B'	Max. digging depth (8' level)	6240 (20' 6")	6630 (21' 9")	7300 (23' 11")	7920 (25' 12")
C	Max. vertical wall digging depth	6000 (19' 8")	5850 (19' 2")	6410 (21' 0")	7080 (23' 3")
D	Max. digging height	10070 (33' 0")	10110 (33' 2")	10160 (33' 4")	10360 (33' 12")
E	Max. dumping height	6940 (22' 9")	7030 (23' 1")	7110 (23' 4")	7310 (23' 12")
F	Min. swing radius	4380 (14' 4")	4260 (13' 12")	4230 (13' 11")	4140 (13' 7")

※ Standard Equipment

Working ranges - R290LC-7A High Chassis



		mm (ft · in)			
	Boom length	※ 6250 (20' 6")			
	Arm length	2100 (6' 11")	2500 (8' 2")	※ 3050 (10' 0")	3750 (12' 4")
A	Max. digging reach	10020 (32' 10")	10280 (33' 7")	10790 (35' 5")	11400 (37' 5")
A'	Max. digging reach on ground	9750 (32' 0")	10020 (32' 10")	10530 (34' 7")	11160 (36' 7")
B	Max. digging depth	6140 (20' 2")	6540 (21' 5")	7090 (23' 3")	7790 (25' 7")
B'	Max. digging depth (8' level)	5930 (19' 5")	6330 (20' 9")	6910 (22' 8")	7630 (25' 0")
C	Max. vertical wall digging depth	5700 (18' 8")	5560 (18' 3")	6090 (20' 0")	6790 (22' 3")
D	Max. digging height	10370 (34' 0")	10220 (33' 6")	10440 (34' 3")	10660 (35' 0")
E	Max. dumping height	7240 (23' 9")	7170 (23' 6")	7400 (24' 3")	7610 (25' 0")
F	Min. swing radius	4380 (14' 4")	4260 (14' 0")	4230 (13' 11")	4140 (13' 7")

※ Standard Equipment

Lifting capacities

• Boom: 6.25 m (20' 6") • Arm: 3.05 m (10' 0") • Bucket: 1.27 m³ SAE 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	
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m (ft)
7.5 m 25.0 ft	kg lb													*4460 *9830	3460 7630	8.94 (29.3)
6.0 m 20.0 ft	kg lb									*4910 *10820	4670 10300			*4600 *10140	2830 6240	9.74 (32.0)
4.5 m 15.0 ft	kg lb							*5960 *13140	*5960 *13140	*5390 *11880	4480 9880			4610 10160	2480 5470	10.20 (33.5)
3.0 m 10.0 ft	kg lb			*9910 *21850	*9910 *21850	*9820 *21650	9600 21160	*7280 *16050	6110 13470	*6090 *13430	4220 9300	*4140 *9130	3010 6640	4370 9630	2310 5090	10.40 (34.1)
1.5 m 5.0 ft	kg lb					*12250 *27010	8690 19160	*8590 *18940	5650 12460	*6830 *15060	3960 8730	*4900 *10800	2880 6350	4340 9570	2270 5000	10.35 (34.0)
Ground Line	kg lb			*9590 *21140	*9590 *21140	*13580 *29940	8220 18220	*9550 *21050	5320 11730	7110 15670	3770 8310	*4310 *9500	2780 6150	4520 9960	2360 5200	10.04 (32.9)
-1.5 m -5.0 ft	kg lb	*10390 *22910	*10390 *22910	*13470 *29700	*13470 *29700	*13920 *30690	8080 17810	*10000 *22050	5170 11400	6990 15410	3660 8070			4990 11000	2630 5800	9.44 (31.0)
-3.0 m -10.0 ft	kg lb	*14060 *31000	*14060 *31000	*18180 *40080	*16660 *36730	*13440 *29630	8130 17920	*9830 *21670	5160 11380	7010 15450	3680 8110			*5980 *13180	3220 7100	8.48 (27.8)
-4.5 m -15.0 ft	kg lb	*18380 *40520	*18380 *40520	*17190 *37900	*17190 *37900	*26390 *58450	8370 18450	*8750 *19290	5330 11750					*5960 *13140	4600 10140	6.97 (22.9)

• Boom: 6.25 m (20' 6") • Arm: 3.75 m (12' 4") • Bucket: 1.27 m³ SAE 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	
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m (ft)
7.5 m 25.0 ft	kg lb													*3930 *8660	2980 6570	9.67 (31.7)
6.0 m 20.0 ft	kg lb									*4160 *9170	*4160 *9170	*2370 *5220	*2370 *5220	*4090 *9020	2470 5450	10.40 (34.1)
4.5 m 15.0 ft	kg lb									*4710 *10380	4560 10050	*3720 *8200	3180 7010	4140 9130	2180 4810	10.83 (35.5)
3.0 m 10.0 ft	kg lb			*13490 *29740	*13490 *29740	*8320 *18340	*8320 *18340	*6410 *14130	6280 13850	*5470 *12060	4280 9440	*4740 *10450	3030 6680	3930 8660	2020 4450	11.02 (36.2)
1.5 m 5.0 ft	kg lb			*9980 *22000	*9980 *22000	*11050 *24360	8990 19820	*7850 *17310	5760 12700	*6300 *13890	3990 8800	5420 11950	2870 6330	3890 8580	1980 4370	10.97 (36.0)
Ground Line	kg lb	*6470 *14260	*6470 *14260	*10300 *22710	*10300 *22710	*12890 *28420	8320 18340	*9020 *19890	5360 11820	*7030 *15500	3750 8270	5270 11620	2740 6040	4030 8880	2040 4500	10.68 (35.0)
-1.5 m -5.0 ft	kg lb	*9310 *20530	*9310 *20530	*12760 *28130	*12760 *28130	*13720 *30250	8020 17680	*9730 *21450	5120 11290	6930 15280	3600 7940	5180 11420	2660 5860	4380 9660	2250 4960	10.12 (33.2)
-3.0 m -10.0 ft	kg lb	*12290 *27090	*12290 *27090	*16240 *35800	*16240 *35800	*13690 *30180	7970 17570	*9880 *21780	5050 11130	6880 15170	3550 7830			5110 11270	2680 5910	9.25 (30.3)
-4.5 m -15.0 ft	kg lb	*15740 *34700	*15740 *34700	*18940 *41760	16670 36750	*12770 *28150	8120 17900	*9310 *20530	5120 11290					*5780 *12740	3590 7910	7.92 (26.0)

Lifting capacities - R290LC-7A (High Chassis)

Rating over-front Rating over-side or 360 degree

• Boom: 6.25 m (20' 6") • Arm: 2.50 m (8' 2") • Bucket: 1.27 m³ SAE 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			
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m (ft)		
7.5 m 25.0 ft	kg lb													*4910 *10820	*4910 *10820	8.52 (28.0)
6.0 m 20.0 ft	kg lb							*5770 *12720	*5770 *12720	*5520 *12170	*5520 *12170	*5060 *11160	4120 9080	3690 8140	9.30 (30.5)	
4.5 m 15.0 ft	kg lb					*8660 *19090	*8660 *19090	*6830 *15060	*6830 *15060	*5990 *13210	5790 12760	*5240 *11550	3690 8140	3500 7720	9.75 (32.0)	
3.0 m 10.0 ft	kg lb			*11380 *25090	*11380 *25090	*8130 *17920	7900 17420	*6650 *14660	5550 12240	5330 11750	3500 7720			5330 11750	3500 7720	9.91 (32.5)
1.5 m 5.0 ft	kg lb					*13300 *29320	11560 25490	*9260 *20410	7490 16510	*7300 *16090	5330 11750	3500 7720			3500 7720	9.80 (32.2)
Ground Line	kg lb			*9530 *21010	*9530 *21010	*14010 *30890	11290 24890	*9960 *21960	7240 15960	*7730 *17040	5180 11420	5680 12520	3710 8180	3710 8180	9.42 (30.9)	
-1.5 m -5.0 ft	kg lb	*12300 *27120	*12300 *27120	*15460 *34080	*15460 *34080	*13840 *30510	11280 24870	*10100 *22270	7170 15810	*7780 *17150	5140 11330	*6210 *13690	4230 9330	4230 9330	8.71 (28.6)	
-3.0 m -10.0 ft	kg lb	*17240 *38010	*17240 *38010	*18270 *40280	*18270 *40280	*12870 *28370	11450 25240	*9510 *20970	7250 15980					*6300 *13890	5380 11860	7.58 (24.9)
-4.5 m -15.0 ft	kg lb			*14820 *32670	*14820 *32670	*10610 *23390	*10610 *23390									

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.

• Boom: 6.25 m (20' 6") • Arm: 3.05 m (10' 0") • Bucket: 1.27 m³ SAE 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	
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m (ft)
7.5 m 25.0 ft	kg lb													*3300 *7280	*3300 *7280	9.12 (29.9)
6.0 m 20.0 ft	kg lb													*4980 *10980	*4980 *10980	9.84 (32.3)
4.5 m 15.0 ft	kg lb													*6180 *13620	*6180 *13620	10.26 (33.7)
3.0 m 10.0 ft	kg lb													*10320 *22750	*10320 *22750	10.41 (34.2)
1.5 m 5.0 ft	kg lb													*6850 *15100	*6850 *15100	10.31 (33.8)
Ground Line	kg lb													*10250 *22600	*10250 *22600	9.95 (32.6)
-1.5 m -5.0 ft	kg lb	*11020 *24290	*11020 *24290	*14240 *31390	*14240 *31390	*13900 *30640	11150 24580	*10020 *22090	7080 15610	*7720 *17020	5050 11130			5760 12700	3760 8290	9.29 (30.5)
-3.0 m -10.0 ft	kg lb	*14780 *32580	*14780 *32580	*19180 *42280	*19180 *42280	*13260 *29230	11240 24780	*9720 *21430	7100 15650	*7360 *16230	5100 11240			*6010 *13250	4610 10160	8.25 (27.1)
-4.5 m -15.0 ft	kg lb	*19280 *42510	*19280 *42510	*16520 *36420	*16520 *36420	*11550 *25460	11540 25440	*8370 *18450	7320 16140							

• Boom: 6.25 m (20' 6") • Arm: 3.75 m (12' 4") • Bucket: 1.27 m³ SAE 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	
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m (ft)
7.5 m 25.0 ft	kg lb													*3960 *8730	3850 8490	9.83 (32.3)
6.0 m 20.0 ft	kg lb													*4240 *9350	*4240 *9350	10.50 (34.4)
4.5 m 15.0 ft	kg lb													*4830 *10650	*4830 *10650	10.89 (35.7)
3.0 m 10.0 ft	kg lb													*14870 *32780	*14870 *32780	11.03 (36.2)
1.5 m 5.0 ft	kg lb													*9690 *21360	*9690 *21360	10.93 (35.9)
Ground Line	kg lb	*6990 *15410	*6990 *15410	*10660 *23500	*10660 *23500	*13120 *28920	11340 25000	*9190 *20260	7230 15940	*7130 *15720	5120 11290	5910 13030	3810 8400	4610 10160	10.60 (34.8)	
-1.5 m -5.0 ft	kg lb	*9830 *21670	*9830 *21670	*13320 *29370	*13320 *29370	*13780 *30380	11080 24430	*9800 *21610	7020 15480	*7550 *16640	4980 10980	*4790 *10560	3740 8250	5060 11160	9.99 (32.8)	
-3.0 m -10.0 ft	kg lb	*12870 *28370	*12870 *28370	*16990 *37460	*16990 *37460	*13590 *29960	11060 24380	*9840 *21690	6970 15370	*7530 *16600	4950 10910			*5610 *12370	3880 8550	9.04 (29.7)
-4.5 m -15.0 ft	kg lb	*16450 *36270	*16450 *36270	*16450 *36270	*16450 *36270	*18430 *40630	18430 40630	*12480 *27510	11250 24800	*9100 *20060	7080 15610			*5790 *12760	5250 11570	7.61 (25.0)

• Boom: 6.25 m (20' 6") • Arm: 3.05 m (10' 0") • Bucket: 1.27 m³ SAE 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							