

## STANDARD EQUIPMENT

ISO Standard cabin  
All-weather steel cab with 360° visibility

Safety glass windows  
Rise-up type windshield wiper  
Sliding fold-in front window  
Sliding side window  
Lockable door

Hot & cool box  
Storage compartment & Ashtray  
Transparent cabin roof-cover  
CD/MP3 Player

Handsfree mobile phone system with USB  
Sun visor

Computer aided power optimization (New CAPO) system

3-power mode, 3-work mode, User mode  
Auto deceleration & one-touch deceleration system

Auto warm-up system  
Auto overheat prevention system

Automatic climate control

Air conditioner & heater  
Defroster

Self-diagnostics system

Starting Aid (air grid heater) for cold weather

Centralized monitoring

LCD display  
Engine speed or Trip meter/Accel.

Clock

Gauges

Fuel level gauge  
Engine coolant temperature gauge

Hyd. oil temperature gauge

Warnings

Check Engine

Overload

Communication error

Low battery

Air cleaner clogging

Indicators

Max power

Low speed/High speed

Fuel warmer

Auto idle/Auto cruise

Door and cab locks, one key

Two outside rearview mirrors

Fully adjustable suspension seat with seat belt

Pilot-operated slidable joystick

Console box tilting system (LH.)

Three frontal working lights

Electric horn

Batteries (2 x 12V x 160 AH)

Battery master switch

Removable clean-out screen for oil cooler

Automatic swing brake

Removable reservoir tank

Fuel pre-filter with fuel warmer

Boom holding system

Arm holding system

Counterweight (5,200kg, 11,460lb)

Track shoes (600mm, 24")

Track rail guard

Viscous fan clutch

Accumulator for lowering work equipment

Electric transducer

## OPTIONAL EQUIPMENT

Fuel filler pump (50 L/min)

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.)

Quick coupler

12 volt power outlet (24V DC to 12V DC converter)

Travel alarm

Booms

6.25 m, 20' 6"

6.25 m, 20' 6" Heavy duty

10.2 m, 33' 6" Long reach

Arms

2.1 m, 6' 11"

2.5 m, 8' 2"

3.05 m, 10' 0"

3.75 m, 12' 4"

3.05 m, 10' 0" Heavy duty

7.85 m, 25' 9" Long reach

Cabin FOPS/FOG (ISO/DIS 10262)

FOPS (Falling Object Protective Structure)

FOG ( Falling Object Guard)

Cabin Roof-steel cover

Cabin lights

Cabin front window rain guard

Track shoes

Triple grousers shoe (700 mm, 28")

Triple grousers shoe (800 mm, 32")

Triple grousers shoe (900 mm, 36")

Double grousers shoe (700 mm, 28")

Full track rail guard (High walker only)

Lower frame under-cover

Pre-heating system, coolant

Tool kit

Operator suit

Low-noise kit

Rearview camera

Engine emergency control cable

Seat

Adjustable air suspension seat

Adjustable air suspension seat with heater

Mechanical suspension seat with heater

Pattern change valve (4 patterns)

Hi-mate (Remote Management System)

## PLEASE CONTACT



We build a better future

Robex

290LC-9

With Tier 3 Engine in standard



\*Photo may include optional equipment.

# Robex 290LC-9

BUILT FOR MAXIMUM POWER,  
PERFORMANCE, AND RELIABILITY.

A new chapter in construction equipment has begun.



 **Hi-mate**  
Remote Management System

Hi-mate, Hyundai's newly developed remote management system, utilizes GPS-satellite technology, to provide our customers with the highest level of service and product support available. Hi-mate enables a dealer or end user to remotely evaluate machine performance, access diagnostic information and verify machine location at the touch of a button.

\*Photo may include optional equipment.

# Cabin Design Technology

The fully re-designed cabin offers low noise operation and increased visibility, providing a pleasant working environment for the operator.



- 1 Handsfree mobile phone with USB connector
- 2 Small cup holders and ashtray
- 3 MP3/CD Player with remote control
- 4 Seat heater (Optional)
- 5 Storage compartment
- 6 Additional storage area

## Ergonomic Joystick

New joystick grips offering precise control are equipped with 4 switches.

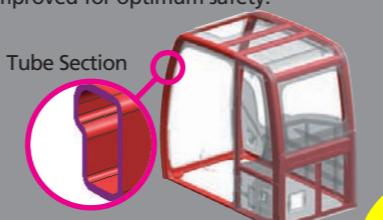


## Wide Cabin with Excellent Visibility

The cabin is roomy and ergonomically designed with low noise levels and good visibility. A full-view front window and large rear and side windows provide excellent visibility in all directions.

## Enhanced Structure

The operators' cabin tube-structure thickness has been improved for optimum safety.



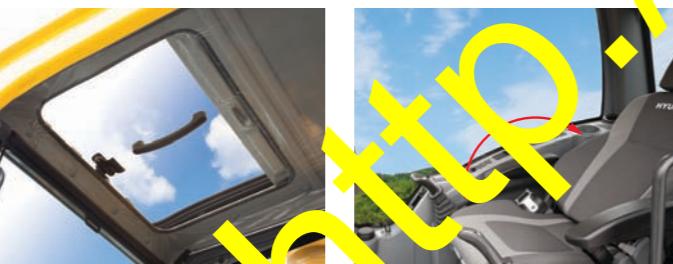
Tube Section



\*Photo may include optional equipment.



Centralized Operation Buttons



Sunroof with Sliding Cover



Increased Tilt Angle of Operator's Seat

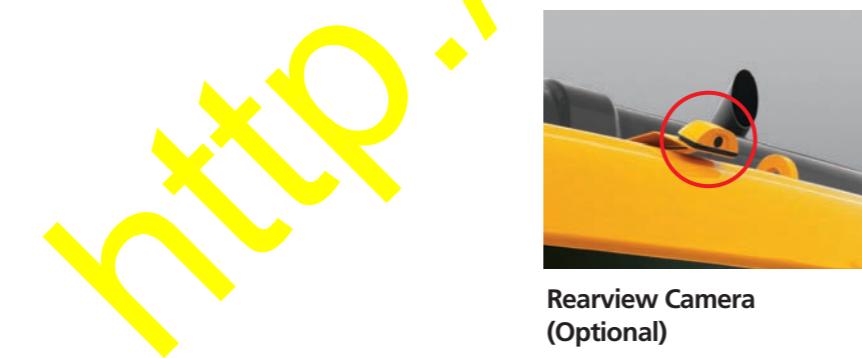


Rear Window Emergency Exit

Window Locking Device

# Improved Performance & Safety Features

Overcome the limits with Robex 9



Rearview Camera  
(Optional)



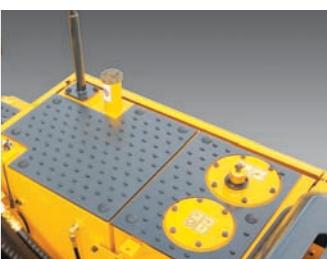
Safety Lever



Master Switch



Anti-Restart System



Anti-Slip Plates

## Cummins QSB6.7 Engine

The 6-cylinders, turbocharged, 4-cycle charger air-cooled engine is built for power, reliability, and economy. This engine meets EPA Tier 3 emission regulations.



## Strong and Stable Lower Frame

The reinforced box-section frame is welded using low-stress, high-strength steel. The X-leg type center frame is integrally welded for maximum strength and durability.



1 Reinforced Bucket and Bucket Linkage

Sealed and adjustable bucket linkage produces less wear of pins and bushes and offers silent operation.



2 Dial-Type Engine Speed Switch



3 Power Boost Control System



## Track Rail Guard & Adjusters

Durable track rail guards keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.

## The Definition of Progress

The Quantum System B-Series 6.7-liter engine combines full-authority electronic controls with reliable performance.

The QSB6.7 electronics have been used in our high-horsepower products in the harshest, most demanding environments, including dusty, non-stop mining operations, and meet worldwide emissions regulations.

The QSB6.7 features 24 valves designed with centered injectors and a symmetrical piston bowl. The combination of improved airflow and evenly dispersed fuel results in increased power, improved transient response, and reduced fuel consumption.

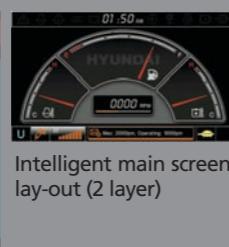
# Newly Designed Hydraulic System

Powerful and precise swing control

## Advanced CAPO System

The advanced CAPO (Computer Aided Power Optimization) system tunes engine and pump power to optimum levels. Multiple mode selections are available for various work loads, maintaining high performance while reducing fuel consumption. Features include auto deceleration and power boost. The system monitors engine speed, coolant and hydraulic oil temperature. Contained within the system are self-diagnostic capabilities which display error codes on the monitor.

## Multi Function Wide Color LCD Monitor



- Caution Light
- 1 Engine Water Temperature Gauge
- 2 Fuel Gauge
- 3 Hyd. Oil Temperature Gauge
- 4 RPM/Tripmeter Display Window
- 5 Accel. Dial Gauge Bar
- 6 Select Power Button Window
- 7 Select Work Button Window
- 8 Select Attachment Mode Window
- 9 Notice Light
- 10 Select Travel Window
- 11 Select Auto Idle Window

## New larger display (7inch Wide LCD)

The instrument Panel is installed in front of RH console box, making it easy to check all critical systems via easy-to-read indicators.



## One-Touch Decel. System

When the one-touch decel. switch is engaged, the CPU controller limits the accel. actuator to an 800rpm idle. When the one-touch decel. Switch is disengaged, the engine speed recovers to its preset rpm.

## Self-Diagnostics System

The CPU controller diagnoses problems in the CAPO system caused by electric and hydraulic malfunctions and displays the corresponding displayed on the cluster LCD monitor error codes.

The information via this device, including engine rpm, main pump delivery pressure, battery voltage, hydraulic temperature and the status of electric switches, allows the operator to know the exact operating conditions of the machine.

This makes it easier to troubleshoot any problems that occur.

## Attachment Flow Control System

Attachment mode provides adequate hydraulic pump flow to each work tool, preventing excess flow and ensuring the regular performance.

## Optimum Hydraulic Performance

The pump output capacity has been increased.

## Auto Deceleration System

When the remote-control valves are in the neutral position for more than 4 seconds, the CPU controller instructs the accel. actuator to reduce engine speed to 1,000rpm.

And 60 seconds later, engine speed is reduced to low idle automatically.

This decreases fuel consumption and reduces cab noise levels.

## Boom & Arm Holding System

The holding valves in the main control valve prevent boom & arm lowering during an extended period in the neutral position.

## Boom & Arm Flow Regeneration System

The flow regeneration valve provides smooth and fast operation without cylinder cavitation.

## Hydraulically Dampered Travel Pedal

Improved travel controllability & smoother travel has been achieved via shock reducing components.

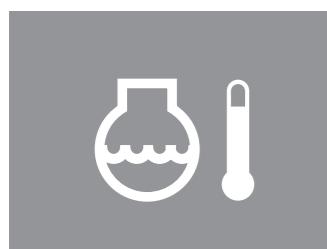
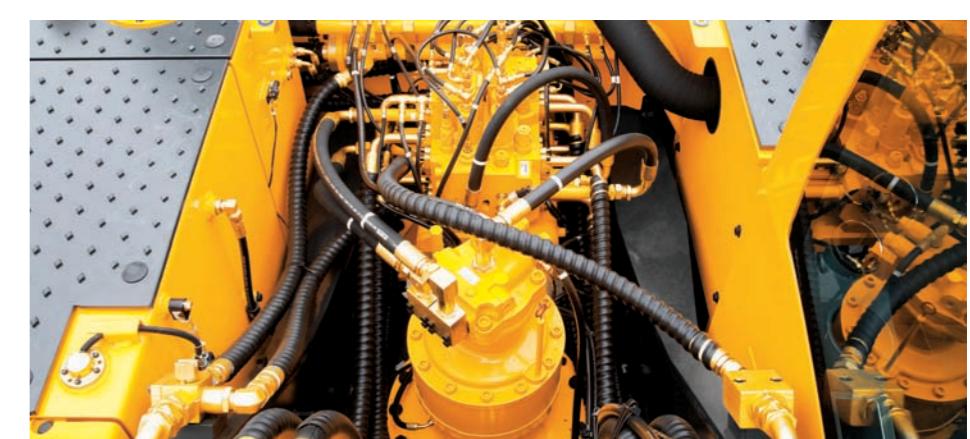
## Pump Flow Control System

When in neutral, the pump flow is minimized to reduce power loss.

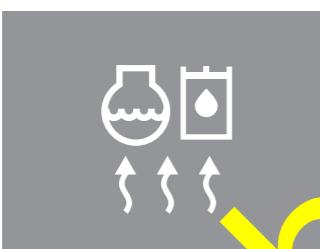
During operation, maximum pump flow is delivered to the actuator to increase speed. Movement of the control lever automatically adjusts pump flow, with cylinder speed controlled proportionally.

## Power Boost Control System

In power mode, the digging force increases about 10%.

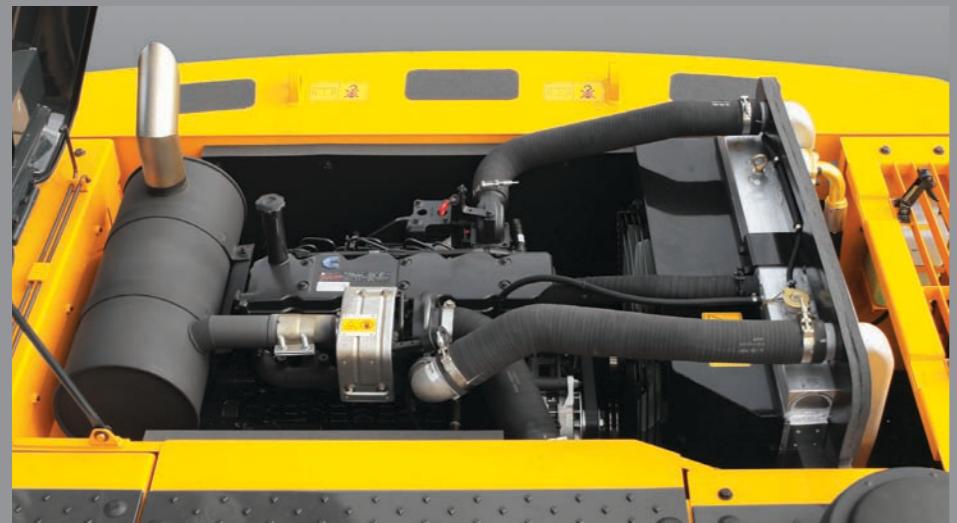


Automatic Engine Overheat Prevention



Automatic Warm-Up System

# Reliability & Maintenance



## Easy to Maintain Engine Components

The cooling and pre-heating systems are designed for optimal and immediate operation, guaranteeing longer engine and hydraulic components life. Servicing the engine and the hydraulics has been considerably simplified due to accessibility.



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

Unrestricted access to vital components allows easy maintenance and repair.



### Filter with Extended Exchange Interval (1,000hr)

- 1 Drain Filter
- 2 Fuel Pre-Filter
- 3 Engine Oil Filter



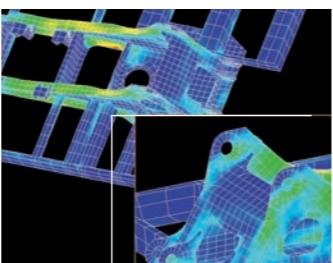
### Easy to Access Electric Box



### Easy to Change Air Cleaner Assembly



### Large Compartment for Extra Storage (Fuel filler pump: Optional)



### Structure Durability Proven via FEM Analysis and Long-Term Durability Tests.

## Lubrication Fittings

All lube fittings are centralized and in close proximity to each other for easy service.



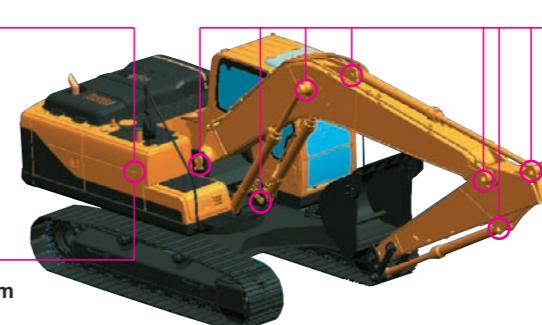
Photo may include optional equipment.

### Extended Hydraulic Filter Life

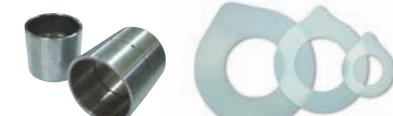
Filters with extended exchange intervals  
(250hr → 1,000 hr, Fiber glass)



Extended Hydraulic Oil Life  
(2,000hr → 5,000 hr, Increase Protection From Oxidization & Heat)



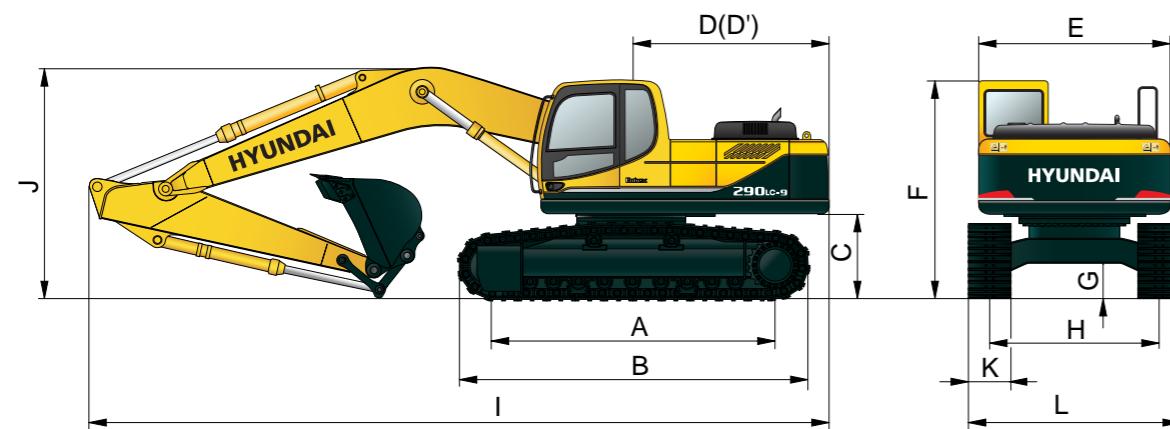
Extended Lubricant Bush Life & Ultra High Molecular Weight Polymer Shim (Wear Resistant & Noise Reducing)





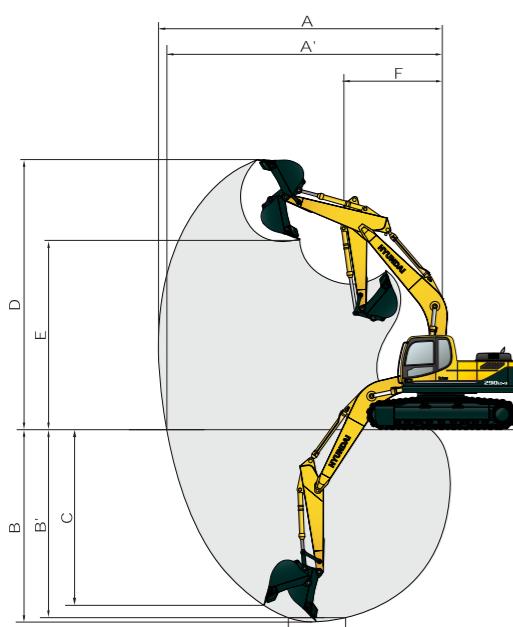
## Dimensions & Working Range

### R290LC-9 / R290NLC-9 DIMENSIONS



A Tumbler distance	R290LC-9	4,030 (13' 3")
	R290NLC-9	4,030 (13' 3")
B Overall length of crawler		4,940 (16' 2")
C Ground clearance of counterweight		1,190 (3' 11")
D Tail swing radius		3,200 (10' 6")
D' Rear-end length		3,120 (10' 3")
E Overall width of upperstructure		2,980 (9' 9")
F Overall height of cab		3,010 (9' 11")
G Min. ground clearance		500 (1' 8")
H Track gauge	R290LC-9	2,600 (8' 6")
	R290NLC-9	2,390 (7' 10")

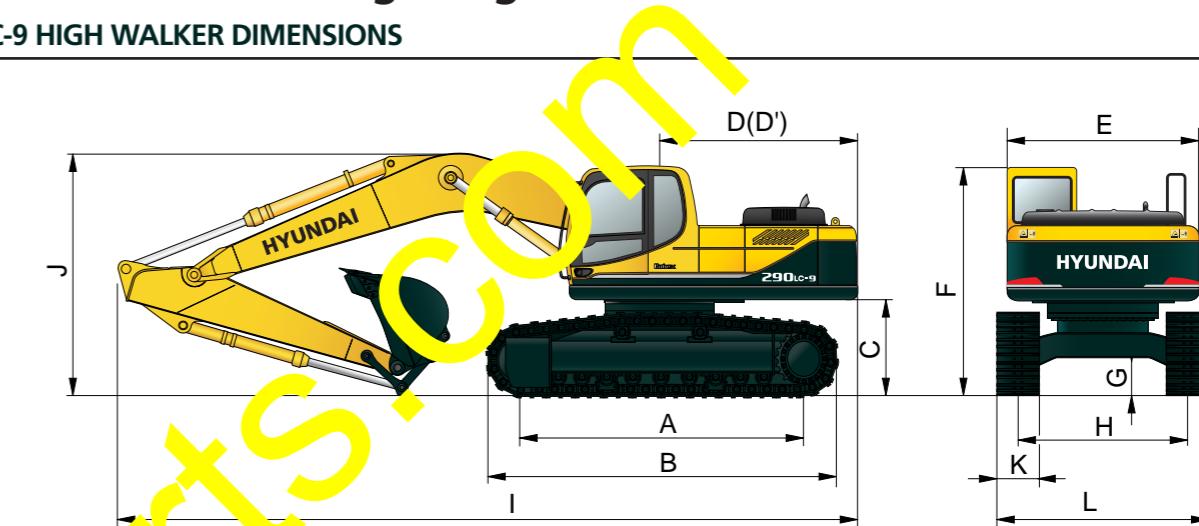
### R290LC-9 / R290NLC-9 WORKING RANGE



Boom length	6,250 (20' 6")				10,200 (33' 6")
Arm length	2,100 (6' 11")	2,500 (8' 2")	3,050 (10' 0")	3,750 (12' 4")	7,850 (25' 9")
A Max. digging reach	10,020 (32' 10")	10,280 (33' 7")	10,820 (35' 6")	11,200 (37' 5")	18,510 (60' 9")
A' Max. digging reach on ground	9,820 (32' 3")	10,080 (33' 1")	10,620 (34' 1")	11,220 (35' 5")	18,400 (60' 4")
B Max. digging depth	6,440 (21' 1")	6,680 (22' 5")	7,500 (24' 7")	8,090 (26' 7")	14,820 (48' 7")
B' Max. digging depth (8' level)	6,240 (20' 6")	6,630 (21' 9")	7,000 (23' 1")	7,920 (25' 12")	14,690 (48' 2")
C Max. vertical wall digging depth	6,000 (19' 8")	5,700 (19' 1")	6,410 (21' 0")	7,080 (23' 3")	12,020 (39' 5")
D Max. digging height	10,070 (32' 0")	10,110 (33' 2")	10,160 (33' 4")	10,360 (33' 12")	14,500 (47' 7")
E Max. dumping height	6,940 (21' 9")	7,030 (23' 1")	7,110 (23' 4")	7,310 (23' 12")	12,190 (39' 12")
F Min. swing radius	4,500 (14' 4")	4,260 (13' 12")	4,230 (13' 11")	4,140 (13' 7")	6,250 (20' 6")

## Dimensions & Working Range

### R290LC-9 HIGH WALKER DIMENSIONS



A Tumbler distance	4,030 (13' 3")	Boom length	6,250 (20' 6")		
B Overall length of crawler	4,950 (16' 3")	Arm length	2,100 (6' 11")	2,500 (8' 2")	3,050 (10' 0")
C Ground clearance of counterweight	1,500 (4' 11")	D Tail swing radius	3,200 (10' 6")	3,750 (12' 4")	7,850 (25' 9")
I Overall length	10,690 (35' 1")	I' Rear end length	3,120 (10' 3")	10,610 (34' 10")	10,430 (34' 3")
J Overall height of boom	3,740 (12' 3")	F Overall width of upperstructure	2,980 (9' 9")	3,590 (11' 9")	3,350 (11' 0")
K Track shoe width	600 (24")	F' Overall height of cab	3,380 (11' 1")	3,510 (11' 6")	Double grouser
L Overall width	R290LC-9: 3,200 (10' 6")	G Min. ground clearance	765 (2' 6")	700 (28")	Type
	R290NLC-9: 2,990 (9' 10")	H Track gauge	2,870 (9' 5")	3,570 (12' 0")	Triple grouser

### R290LC-9 HIGH WALKER WORKING RANGE

Boom length	6,250 (20' 6")		
Arm length	2,100 (6' 11")	2,500 (8' 2")	3,050 (10' 0")
A Max. digging reach	10,020 (32' 10")	10,280 (33' 7")	10,790 (35' 5")
A' Max. digging reach on ground	9,750 (32' 0")	10,020 (32' 10")	10,530 (34' 7")
B Max. digging depth	6,140 (20' 2")	6,540 (21' 5")	7,090 (23' 3")
B' Max. digging depth (8' level)	5,930 (19' 5")	6,330 (20' 9")	7,630 (22' 8")
C Max. vertical wall digging depth	5,700 (18' 8")	5,560 (18' 3")	6,090 (20' 0")
D Max. digging height	10,370 (34' 0")	10,220 (33' 6")	10,660 (34' 3")
E Max. dumping height	7,240 (23' 9")	7,170 (23' 6")	7,610 (24' 3")
F Min. swing radius	4,380 (14' 4")	4,260 (14' 0")	4,230 (13' 11")

