

**Gross Power (SAE J1995)**  
126 HP (94 kW) / 2,100 rpm

**Net Power (SAE J1349)**  
116 HP (87 kW) / 2,100 rpm

**Bucket Capacity**  
0.39 ~ 1.05m<sup>3</sup>

**Operating Weight**  
18,350 kg / 40,450 lb

# Robex 180LC-9S

With Tier 2 Engine installed

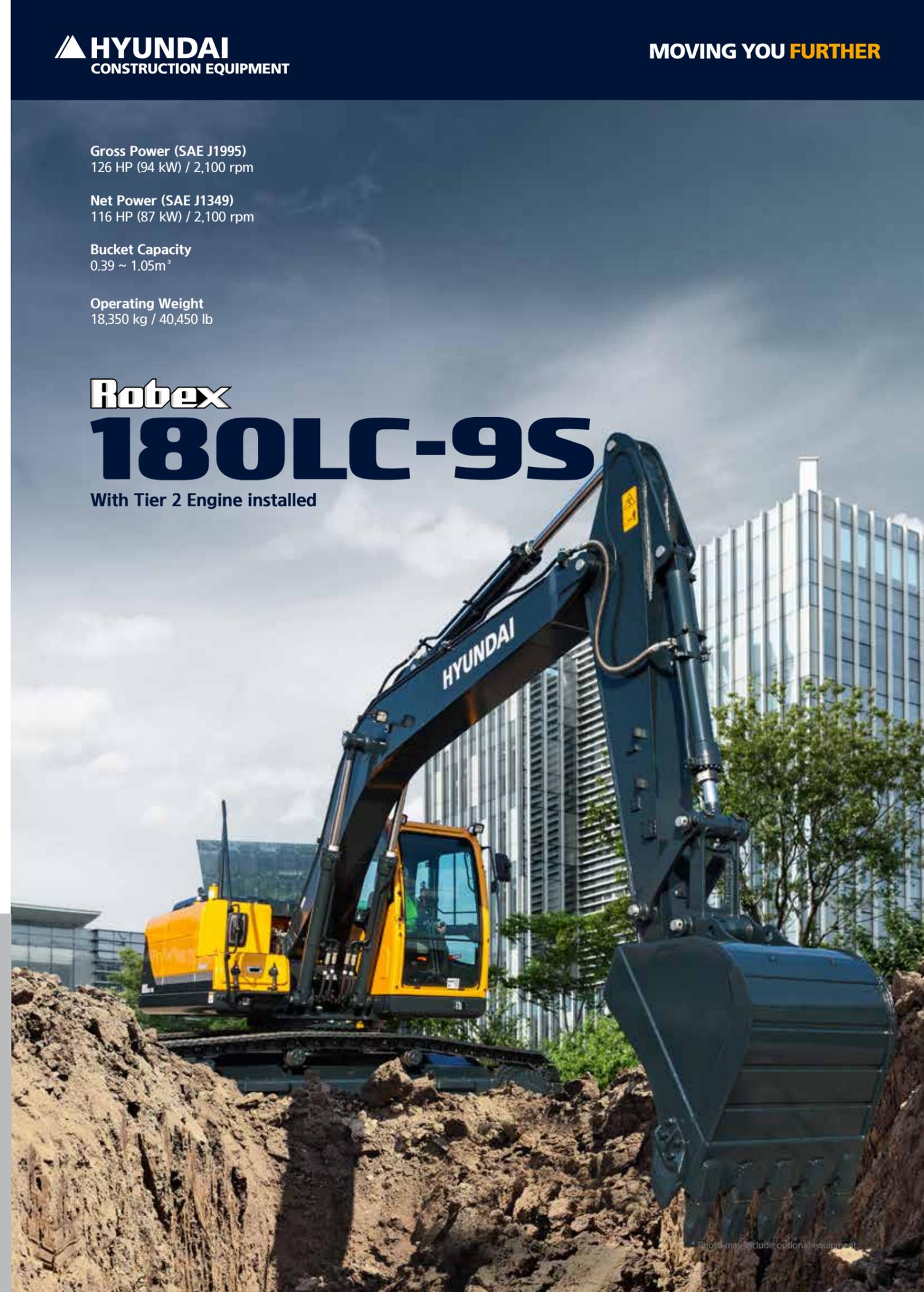


## ▲ HYUNDAI CONSTRUCTION EQUIPMENT

Head Office(Sales Office)

3F, Bundang First Tower, 55 Bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13591, Korea

PLEASE CONTACT



# PRIDE AT WORK

Robex **180LC-9S**

Hyundai Heavy Industries strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality.

Take pride in your work with Hyundai!

## Machine Walk-Around

### Engine Technology

Easy & Simple Serviceability / Auto engine warm up feature / Anti-restart feature

### Hydraulic System Improvements

New patented hydraulic control for improved controllability / Improved control valve design for added efficiency and smoother operation / New auto boom and swing priority system for optimum speed / New auto power boost feature for additional power when needed / Improved arm-in and boom-down flow regeneration system for added speed and efficiency

### Pump Compartment

Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps New compact solenoid block equipped with 4 solenoid valves, 1 EPPR valves, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock

### Enhanced Operator Cab

#### Improved Visibility

Enlarged cab with improved visibility  
Larger right-side glass, now one piece, for better right visibility  
Safety glass windows on all sides - less expensive than (polycarbonate) and won't scratch or fade  
Closeable sunshade for operator convenience / Reduced front window seam for improved operator view

#### Improved Cab Construction

New steel tube construction for added operator safety, protection and durability  
New window open/close mechanism designed with cable and spring lift assist and single latch release

#### Improved Suspension Seat / Console Assembly

Ergonomic joysticks with auxiliary control buttons for attachment use - now with new sleek styling  
New joystick consoles - now adjustable in height by way of dial at bottom  
Adjustable arm rests - turn dial to raise or lower for optimum comfort

#### Advanced 7" Color Cluster

New Color LCD Display with easy to read digital gauges for hydraulic oil temperature, water temperature, and fuel / Simplified design makes adjustment and diagnostics easier. Also, new enhanced features such as rear-view camera are integrated into monitor.  
3 power modes : (P) Power, (S) Standard, (E) Economy, 2 work modes : Dig & Attachment, (U) User mode for operator preference  
Enhanced self-diagnostic features with GPS / satellite technology  
One pump flow or two pump flow for optional attachment is now selectable through the cluster.  
/ New anti-theft system with password capability  
Boom speed and arm regeneration are selectable through the monitor.  
Auto power boost is now available - selectable (on/off) through the monitor.  
Powerful air conditioning and heat with auto climate control, 20% more heat and air output than 7 series!

#### RMS

RMS (Remote Management System) works through GPS/satellite technology to ultimately provide better customer service and support.

### Undercarriage

Sealed track chain (urethane seals) / Standard track rail guard / Comfortable bolt-on steps  
Large upper roller cut-outs for debris clean-out / Tapered side frames for debris clean-out  
Grease-type track tensioner



\* Photo may include optional equipment.

### Operator Comfort

In 9S Series cabin you can easily adjust the seat, console and armrest settings to best suit your personal operating preferences.

Seat and console position can be set together and independent from each other.

Other preference settings that add to overall operator comfort include the fully automatic high capacity airconditioning system and the radio / USB player.



### Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 9S Series provides improved cab amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio system with USB player, AM/FM stereo is perfect for listening to music favorites.

### Wide Cabin with Excellent Visibility

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. Special attention was given to a clear, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of precision aspects put the operator in the perfect position to work safely and securely.



### Operator - Friendly Cluster

The advanced new cluster with 7 inch wide color LCD screen and toggle switch allows the operator to select his personal machine preferences. Power and work mode selection, self diagnostics, optional rear-view camera, maintenance check lists, start-up machine security were integrated into the cluster to make the machine more versatile and the operator more productive.



# PREFERENCE

Operating a 9S Series is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.



## COMPUTER AIDED POWER

The engine horsepower and hydraulic horsepower together in unison through the advanced CAPO(Computer Aided Power Optimization) system, flow for the job at hand. Operator can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button.

The CAPO system also provides complete self diagnostic features and digital gauges for important information like hydraulic oil temperature, water temperatures and fuel level. This system interfaces with multiple sensors placed throughout the hydraulic system as well as hydraulic flow.

### Power Mode

P (Power Max) mode maximizes machine speed and power for mass production. S (Standard) mode provides a reduced, fixed rpm for optimum performance and improved fuel economy. For maximum fuel savings and improved control, E (Economy) mode provides precise flow and power based on load demand. Three unique power modes provide the operator with custom power, speed and fuel economy.

### Work Mode

The work mode allows the operator to select single flow attachments like a hydraulic breaker or bi-directional flow attachments like a crusher. Flow settings unique to each attachment can be programmed from within the cluster.

### User Mode

Some jobs require more precise machine settings. Using the versatile U (User) mode, the operator can customize engine speed, pump output, idle speed and other machine settings for the job at hand.



### Improved Hydraulic System

To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption.

Improved spool valves in the control valve are engineered to provide more precise

flow to each function with less effort.

Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9S Series look like a smooth operator. Newly improved features include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance in any application.



### Auto Boom-swing Priority

This smart function automatically and continuously looks the ideal hydraulic flow balance for the boom and swing motions of the machine. The advanced CAPO system monitors the hydraulic system and adjusts its settings to maximize performance and productivity.



# PRECISION

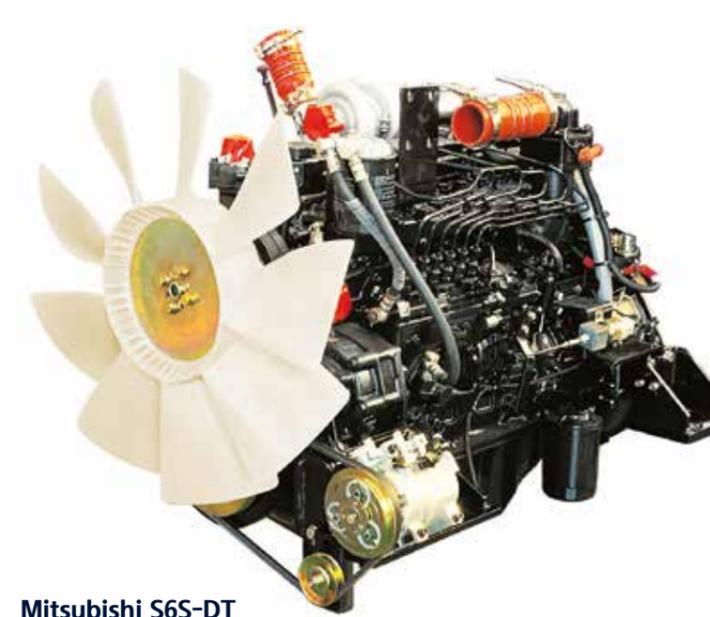
Innovative hydraulic system technologies make the 9S Series excavator fast, smooth and easy to control.





# PERFORMANCE

9S Series is designed for maximum performance to keep the operator working productively.



## Mitsubishi S6S-DT

The six cylinders turbo-charged and charged air cooled, engine is built for power, reliability and economy. This engine meets EPA tier II and EU stage II emission regulation.

## Reliability You Can Depend On

Mitsubishi S6S-DT engine is ideal solution for the toughest work environment. The engine is built from a cast iron, skirted block with main bearing support between each cylinder. This combination provides maximum strength, rigidity, and crankshaft support. Special liquid cooling results in uniform temperature distribution.

The compact size of the engine makes it easier to service than other engines. The low engine height allows easy access for maintenance due to a side-mounted, gear-driven camshaft.

## Structure Strength

The 9S Series cabin structure has been fitted with stronger but slimmer tubing for more safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.



## 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.



\*Photo may include optional equipment.



# PROFITABILITY

9S Series is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.



## Hi-MATE

Option

### IT'S CONVENIENT, EASY AND VALUABLE

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

### WHAT IS BENEFITS



#### Increase Productivity

It helps you operate machines in efficient. You can check the difference between total engine hours and actual working hours. See how productive your machines are and plan any required cost saving solutions. Hi-MATE offers working information such as working / idling hours, fuel consumption and rate.



#### Convenient and Easy Monitoring

There is nothing much to do to monitor your machines. Just log on to the Hi-MATE website or mobile application. Hi-MATE allows you to watch your machines whenever and wherever you are.



#### Security

Protect your machines from theft or unauthorized usage with Hi-MATE. If the machine moves out of the Geo-fence boundary, you will get alerts.

### Fuel Efficiency

9S Series excavators are engineered to be extremely fuel efficient. New innovations like two-stage auto decel system and the new economy mode help to conserve fuel and reduce the impact on the environment.

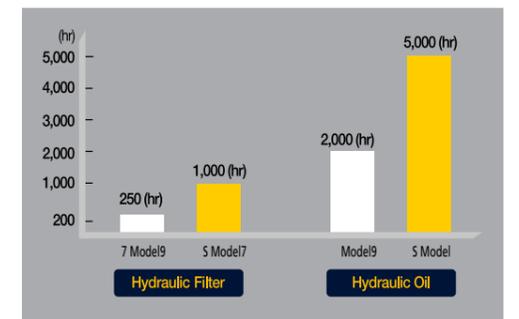


### Easy Access

Ground-line access to filters, lube fittings, fuses, machine computer components and wide open compartments makes service more convenient on the 9S Series.

### Extended Life Components

9S Series excavators were designed with bushings designed for extended lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), extended-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated pre-heating systems which extend service intervals, minimize operating costs and reduce machine downtime.



# SPECIFICATIONS

## ENGINE

|                     |  |
|---------------------|--|
| Maker / Model       | Mitsubishi S6S-DT  |
| Type                | Water cooled, 4 cycle Diesel, 6-cylinders in line, direct injection, turbocharged charger and air cooled |
| Gross Power         | SAE(J1995) 126 HP (94 kW) / 2,100 rpm<br>DIE(6271/1) 128 PS (94 kW) / 2,100 rpm                          |
| Net Power           | SAE(J1349) 116 HP (87 kW) / 2,100 rpm<br>DIE(6271/1) 118 PS (87 kW) / 2,100 rpm                          |
| Max. torque         | 42.5 kgf.m (307 lbf.ft) / 1,500 rpm  |
| Bore X stroke       | 94 x 120mm (3.70" x 4.72")   |
| Piston displacement | 4,996cc (305 in <sup>3</sup> )   |
| Batteries           | 2 X 12V X 100 AH   |
| Starting motor      | 24V- 5.0kW   |
| Alternator          | 24V- 50Amp   |

## HYDRAULIC SYSTEM

### MAIN PUMP

|                            |  |
|----------------------------|--|
| Type                       | Two variable displacement piston pumps       |
| Rated flow                 | 2 X 160L /min<br>(42.3 US gpm / 35.2 UK gpm) |
| Sub-pump for pilot circuit | Gear pump                                    |

Cross-sensing and fuel saving pump system.

### HYDRAULIC MOTORS

|        |  |
|--------|--|
| Travel | Two speed axial pistons motor with brake valve and parking brake |
| Swing  | Axial piston motor with automatic brake                          |

### RELIEF VALVE SETTING

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Implement Circuits              | 350 kgf/cm <sup>2</sup> (4,980 psi) |
| Travel                          | 350 kgf/cm <sup>2</sup> (4,980 psi) |
| Power Boost (Boom, Arm, Bucket) | 380 kgf/cm <sup>2</sup> (5,410 psi) |
| Swing Circuit                   | 285 kgf/cm <sup>2</sup> (4,050 psi) |
| Pilot Circuit                   | 40 kgf/cm <sup>2</sup> (570 psi)    |
| Service Valve                   | Installed                           |

### HYDRAULIC CYLINDERS

|                 |   |
|-----------------|---|
|                 | Boom : 2-115 X 1,090 mm (4.5" X 42.9")  |
| No. of Cylinder | Arm : 1-120 X 1,355 mm (4.7" X 53.3")   |
| Bore X Stroke   | Bucket : 1-110 X 995 mm (4.3" X 39.2")<br>Blade : 2-110 X 320 mm (4.3" X 12.6") |

### DRIVES & BRAKES

|                                |                                       |
|--------------------------------|---------------------------------------|
| Drive Method                   | Fully hydrostatic type                |
| Drive Motor                    | Axial piston motor, in-shoe design    |
| Reduction System               | Planetary reduction gear              |
| Max. Drawbar Pull              | 17,000 kgf (37,500 lbf)               |
| Max. Travel Speed (High / Low) | 5.5 km/hr(3.4mph) / 3.2 km/hr(2.0mph) |
| Gradeability                   | 30°(58 %)                             |
| 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   |

## SWING SYSTEM

|                           |  |
|---------------------------|--|
| Swing Motor               | Two fixed displacement axial pistons motor |
| Swing Reduction           | Planetary gear reduction                   |
| Swing Bearing Lubrication | Grease-bathed                              |
| Swing Brake               | Multi wet disc                             |
| Swing Speed               | 11 rpm                                     |

## COOLANT & LUBRICANT CAPACITY

| Refilling                        | liter | US gal | UK gal |
|----------------------------------|-------|--------|--------|
| Fuel tank                        | 270   | 71.3   | 59.4   |
| Engine coolant                   | 17.5  | 4.6    | 3.8    |
| Engine oil                       | 16.5  | 4.4    | 3.6    |
| Swing device-gear oil            | 5.0   | 1.3    | 1.1    |
| Final drive(each)-gear oil       | 5.8   | 1.5    | 1.3    |
| Hydraulic system(including tank) | 270   | 71.3   | 59.4   |
| Hydraulic tank                   | 160   | 42.6   | 35.2   |

## UNDERCARRIAGE

The 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 springs and sprockets, and a track chain with double or triple grouser shoes.

| Center Frame                       | X - Leg Type        |    |
|------------------------------------|---------------------|----|
| Track Frame                        | Pentagonal Box Type |    |
| No. of Shoes on Each Side          | 51                  | 46 |
| No. of Carrier Roller on Each Side | 2                   | 2  |
| No. of Track Roller on Each Side   | 8                   | 8  |
| No. of Rail Guard on Each Side     | 2                   | 2  |

## OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,100mm (16' 9") boom, 2,600mm (8' 6") arm, SAE heaped 0.76m<sup>3</sup> (0.99 yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

### MAJOR COMPONENT WEIGHT

|   |                      |
|---|----------------------|
| Upperstructure                              | 4,980 kg (10,980 lb) |
| 5.1m (16' 9") mono boom (with arm cylinder) | 1,250 kg (2,760 lb)  |

### OPERATING WEIGHT

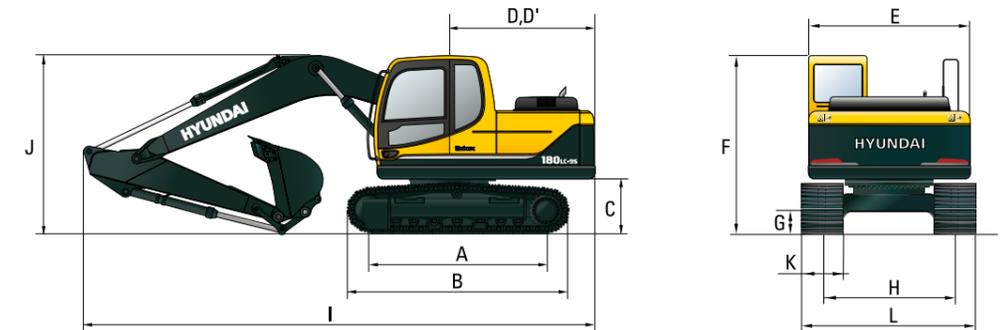
| Type           | Shoes        |                | Operating weight<br>kg(lb) | Ground pressure<br>kgf/cm <sup>2</sup> (psi) |
|----------------|--------------|----------------|----------------------------|--|
|                | Width mm(in) |                |                            |  |
| Triple grouser | 500 (20")    | R180LC-9S      | 18,350(40,450)             | 0.51(7.25)                                   |
|                |              | R180LCD-9S     | 19,350(42,660)             | 0.53(7.54)                                   |
|                |              | R180NLC-9S     | 18,260(40,260)             | 0.50(7.11)                                   |
|                | 600 (24")    | R180LC-9S      | 18,600(41,010)             | 0.43(6.11)                                   |
|                |              | R180LCD-9S     | 19,600(43,210)             | 0.45(6.40)                                   |
|                |              | R180NLC-9S     | 18,510(40,810)             | 0.43(6.11)                                   |
| 700 (28")      | R180LC-9S    | 18,850(41,560) | 0.37(5.26)                 |  |
|                | R180LCD-9S   | 19,850(43,760) | 0.39(5.55)                 |  |
|                | R180NLC-9S   | 18,760(41,360) | 0.37(5.26)                 |  |
| 800 (32")      | R180LC-9S    | 19,100(42,110) | 0.33(4.69)                 |  |
|                | R180LCD-9S   | 20,100(44,310) | 0.35(4.98)                 |  |
|                |              | R180NLC-9S     | 19,010(41,910)             | 0.33(4.69)                                   |

## AIR CONDITIONING SYSTEM

The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential : 1430)  
The system hold 0.75kg refrigerant consisting of a CO<sup>2</sup> equivalent 1.07kg metric tonne.  
For more information, Please refer to the manual.

# DIMENSIONS & WORKING RANGE

## R180LC-9S DIMENSIONS



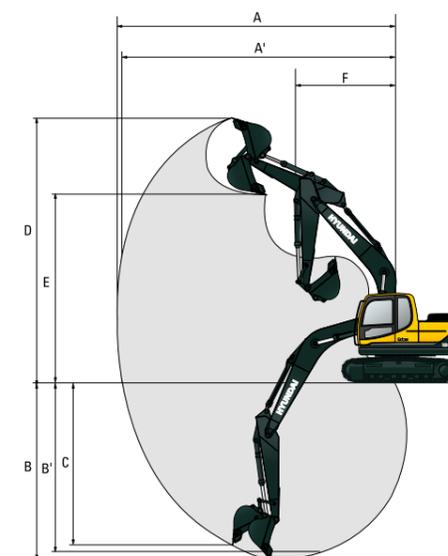
Unit : mm (ft - in)

|                                     |                |
|-------------------------------------|----------------|
| A Tumbler distance                  | 3,360 (11' 0") |
| B Overall length of crawler         | 4,150 (13' 7") |
| C Ground clearance of counterweight | 1,055 (3' 6")  |
| D Tail swing radius                 | 2,530 (8' 4")  |
| D' Rear-end length                  | 2,480 (8' 2")  |
| E Overall width of upperstructure   | 2,475 (8' 1")  |
| F Overall height of cab             | 2,980 (9' 9")  |
| G Min. ground clearance             | 460 (1' 6")    |
| H Track gauge                       | 2,250 (7' 5")  |

|                          |                   |                   |                   |
|--------------------------|-------------------|-------------------|-------------------|
| Boom length              | 5,100(16' 9")     |                   |                   |
| Arm length               | 2,200<br>(7' 3")  | 2,600<br>(8' 6")  | 3,100<br>(10' 2") |
| I Overall length         | 8,660<br>(28' 5") | 8,650<br>(28' 5") | 8,650<br>(28' 5") |
| J Overall height of boom | 3,010<br>(9' 11") | 2,990<br>(9' 10") | 3,150<br>(10' 4") |
| K Track shoe width       | 500<br>(20")      | 600<br>(24")      | 700<br>(28")      |
| L Overall width          | 2,750<br>(9' 1")  | 2,850<br>(9' 5")  | 2,950<br>(9' 9")  |

## R180LC-9S WORKING RANGE

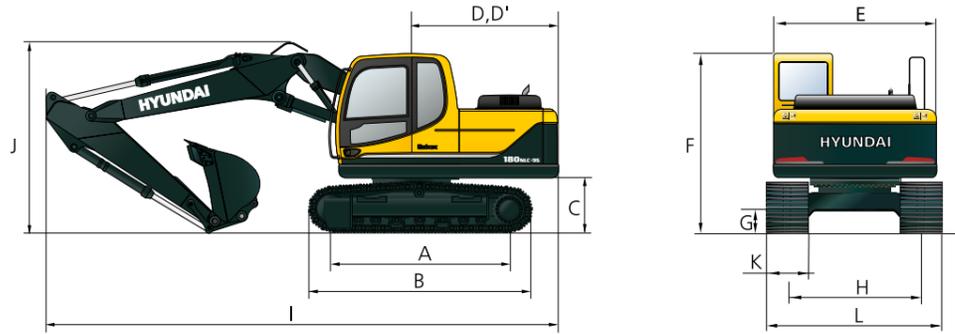
Unit : mm (ft - in)



|                                    |                    |                    |                    |
|------------------------------------|--------------------|--------------------|--------------------|
| Boom length                        | 5,100(16' 9")      |                    |                    |
| Arm length                         | 2,200<br>(7' 3")   | 2,600<br>(8' 6")   | 3,100<br>(10' 2")  |
| A Max. digging reach               | 8,690<br>(28' 6")  | 9,020<br>(29' 7")  | 9,450<br>(31' 0")  |
| A' Max. digging reach on ground    | 8,530<br>(27' 12") | 8,860<br>(29' 1")  | 9,300<br>(30' 6")  |
| B Max. digging depth               | 5,660<br>(18' 7")  | 6,060<br>(19' 11") | 6,560<br>(21' 6")  |
| B' Max. digging depth (8' level)   | 5,430<br>(17' 10") | 5,850<br>(19' 2")  | 6,370<br>(20' 11") |
| C Max. vertical wall digging depth | 5,120<br>(16' 10") | 5,380<br>(17' 8")  | 5,710<br>(18' 9")  |
| D Max. digging height              | 8,750<br>(28' 8")  | 8,840<br>(29' 0")  | 8,980<br>(29' 6")  |
| E Max. dumping height              | 6,110<br>(20' 1")  | 6,220<br>(20' 5")  | 6,390<br>(21' 0")  |
| F Min. swing radius                | 3,180<br>(10' 5")  | 3,170<br>(10' 5")  | 3,170<br>(10' 5")  |

# DIMENSIONS & WORKING RANGE

## R180NLC-9S DIMENSIONS

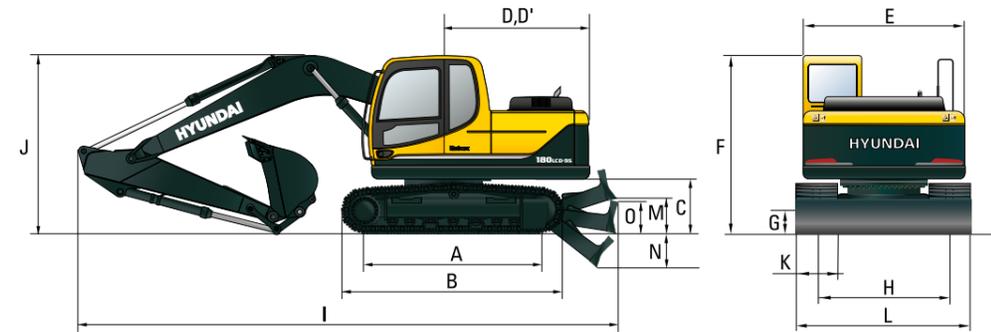


|                                     |                |
|-------------------------------------|----------------|
| A Tumbler distance                  | 3,360 (11' 0") |
| B Overall length of crawler         | 4,150 (13' 7") |
| C Ground clearance of counterweight | 1,055 (3' 6")  |
| D Tail swing radius                 | 2,530 (8' 4")  |
| D' Rear-end length                  | 2,480 (8' 2")  |
| E Overall width of upperstructure   | 2,475 (8' 1")  |
| F Overall height of cab             | 2,990 (9' 10") |
| G Min. ground clearance             | 460 (1' 6")    |
| H Track gauge                       | 2,000 (6' 7")  |

Unit : mm (ft - in)

|                          |                |                |                |
|--------------------------|----------------|----------------|----------------|
| Boom length              | 5,100(16' 9")  |                |                |
| Arm length               | 2,200 (7' 3")  | 2,600 (8' 6")  | 3,100 (10' 2") |
| I Overall length         | 8,660 (28' 5") | 8,650 (28' 5") | 8,650 (28' 5") |
| J Overall height of boom | 3,010 (9' 11") | 2,990 (9' 10") | 3,150 (10' 4") |
| K Track shoe width       | 500 (20")      | 600 (24")      | 700 (28")      |
| L Overall width          | 2,500 (8' 2")  | 2,600 (8' 6")  | 2,700 (8' 10") |

## R180LCD-9S DIMENSIONS



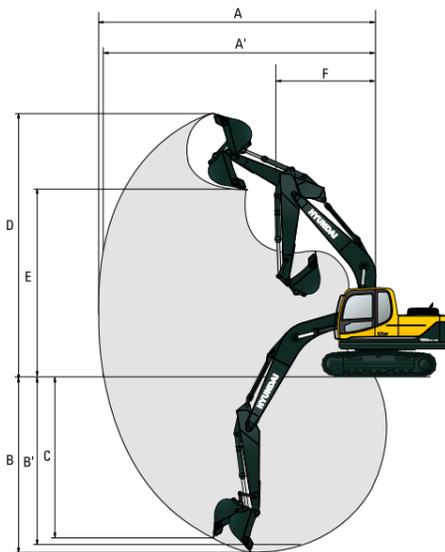
Unit : mm (ft - in)

|                                     |                |
|-------------------------------------|----------------|
| A Tumbler distance                  | 3,360 (11' 0") |
| B Overall length of crawler         | 4,150 (13' 7") |
| C Ground clearance of counterweight | 1,055 (3' 6")  |
| D Tail swing radius                 | 2,530 (8' 4")  |
| D' Rear-end length                  | 2,480 (8' 2")  |
| E Overall width of upperstructure   | 2,475 (8' 1")  |
| F Overall height of cab             | 2,980 (9' 9")  |
| G Min. ground clearance             | 460 (1' 6")    |
| H Track gauge                       | 2,250 (7' 5")  |
| M Ground clearance of blade up      | 615 (2' 0")    |
| N Depth of blade down               | 675 (2' 3")    |
| O Height of blade                   | 640 (2' 1")    |

Unit : mm (ft - in)

|                          |                 |                 |                 |                |
|--------------------------|-----------------|-----------------|-----------------|----------------|
| Boom length              | 5,100(16' 9")   |                 |                 |                |
| Arm length               | 2,200 (7' 3")   | 2,600 (8' 6")   | 3,100 (10' 2")  |                |
| I Overall length         | 9,110 (29' 11") | 9,100 (29' 10") | 9,100 (29' 10") |                |
| J Overall height of boom | 3,010 (9' 11")  | 2,990 (9' 10")  | 3,150 (10' 4")  |                |
| K Track shoe width       | 500 (20")       | 600 (24")       | 700 (28")       | 800 (32")      |
| L Overall width          | 2,750 (9' 1")   | 2,850 (9' 5")   | 2,950 (9' 9")   | 3,050 (10' 1") |

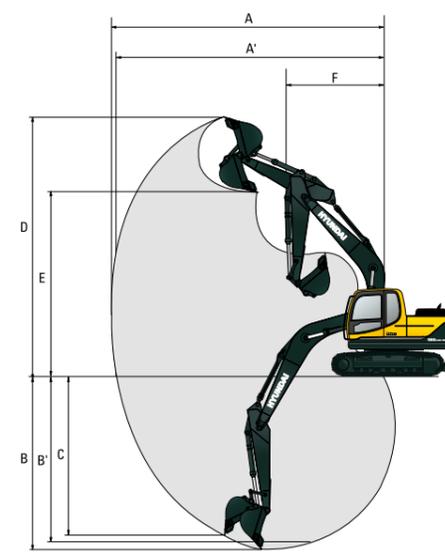
## R180NLC-9S WORKING RANGE



Unit : mm (ft - in)

|                                    |                 |                 |                 |
|------------------------------------|-----------------|-----------------|-----------------|
| Boom length                        | 5,100(16' 9")   |                 |                 |
| Arm length                         | 2,200 (7' 3")   | 2,600 (8' 6")   | 3,100 (10' 2")  |
| A Max. digging reach               | 8,690 (28' 6")  | 9,020 (29' 7")  | 9,450 (31' 0")  |
| A' Max. digging reach on ground    | 8,530 (27' 12") | 8,860 (29' 1")  | 9,300 (30' 6")  |
| B Max. digging depth               | 5,660 (18' 7")  | 6,060 (19' 11") | 6,560 (21' 6")  |
| B' Max. digging depth (8' level)   | 5,430 (17' 10") | 5,850 (19' 2")  | 6,370 (20' 11") |
| C Max. vertical wall digging depth | 5,120 (16' 10") | 5,380 (17' 8")  | 5,710 (18' 9")  |
| D Max. digging height              | 8,750 (28' 8")  | 8,840 (29' 0")  | 8,980 (29' 6")  |
| E Max. dumping height              | 6,110 (20' 1")  | 6,220 (20' 5")  | 6,390 (21' 0")  |
| F Min. swing radius                | 3,180 (10' 5")  | 3,170 (10' 5")  | 3,170 (10' 5")  |

## R180LCD-9S WORKING RANGE



Unit : mm (ft - in)

|                                    |                 |                 |                 |
|------------------------------------|-----------------|-----------------|-----------------|
| Boom length                        | 5,100 (16' 9")  |                 |                 |
| Arm length                         | 2,200 (7' 3")   | 2,600 (8' 6")   | 3,100 (10' 2")  |
| A Max. digging reach               | 8,690 (28' 6")  | 9,020 (29' 7")  | 9,450 (31' 0")  |
| A' Max. digging reach on ground    | 8,530 (27' 12") | 8,860 (29' 1")  | 9,300 (30' 6")  |
| B Max. digging depth               | 5,660 (18' 7")  | 6,060 (19' 11") | 6,560 (21' 6")  |
| B' Max. digging depth (8' level)   | 5,430 (17' 10") | 5,850 (19' 2")  | 6,370 (20' 11") |
| C Max. vertical wall digging depth | 5,120 (16' 10") | 5,380 (17' 8")  | 5,710 (18' 9")  |
| D Max. digging height              | 8,750 (28' 8")  | 8,840 (29' 0")  | 8,980 (29' 6")  |
| E Max. dumping height              | 6,110 (20' 1")  | 6,220 (20' 5")  | 6,390 (21' 0")  |
| F Min. swing radius                | 3,180 (10' 5")  | 3,170 (10' 5")  | 3,170 (10' 5")  |

# LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degree

## R180LC-9S

Boom : 5.10 m (16' 9") / Arm : 2.20 m (7' 3") / Bucket : 0.76 m<sup>3</sup> (0.92 yd<sup>3</sup>) SAE heaped / Shoe : 600mm(24") triple grouser

| Lift-point height (m/ft) | Lift-point radius   |   |   |   |   |   |   |   |   |   | At max. reach |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---------------|--------|
|                          | 1.5 m (5 ft)  |   | 3.0 m (10 ft)   |   | 4.5 m (15 ft)   |   | 6.0 m (20 ft)   |   | Capacity  |   | Reach         |        |
|                          |  |  |  |  |  |  |  |  |  |  | m (ft)        |        |
| 7.5 m (25 ft)            | kg  |   |   |   |   |   |   |   |   | *3,770  | *3,750        | 5.60   |
|                          | lb  |   |   |   |   |   |   |   |   | *8,270  | *8,270        | (18.4) |
| 6.0 m (20 ft)            | kg  |   |   |   |   |   |   |   |   | *3,660  | 2,920         | 6.98   |
|                          | lb  |   |   |   |   |   |   |   |   | *8,070  | 6,440         | (22.9) |
| 4.5 m (15 ft)            | kg  |   |   |   | *4,570  | *4,570  | *4,110  | 3,690   |   | *3,690  | 2,370         | 7.76   |
|                          | lb  |   |   |   | *10,080   | *10,080   | *9,060  | 8,140   |   | *8,140  | 5,220         | (25.5) |
| 3.0 m (10 ft)            | kg  |   |   | *9,100  | *9,100  | *5,790  | 5,620   | *4,600  | 3,550   | 3,360   | 2,130         | 8.15   |
|                          | lb  |   |   | *20,060   | *20,060   | *12,760   | 12,390  | *10,140   | 7,830   | 7,410   | 4,700         | (26.7) |
| 1.5 m (5 ft)             | kg  |   |   |   | *7,030  | 5,250   | *5,160  | 3,390   |   | 3,280   | 2,060         | 8.20   |
|                          | lb  |   |   |   | *15,500   | 11,570  | *11,380   | 7,470   |   | 7,230   | 4,540         | (26.9) |
| Ground Line              | kg  |   |   | *7,120  | *7,120  | *7,680  | 5,030   | 5,250   | 3,270   | 3,420   | 2,150         | 7.94   |
|                          | lb  |   |   | *15,700   | *15,700   | *16,930   | 11,090  | 11,570  | 7,210   | 7,540   | 4,740         | (26.0) |
| -1.5 m (-5ft)            | kg  | *7,040  | *7,040  | *11,150   | 9,670   | *7,590  | 4,970   | 5,200   | 3,230   | 3,900   | 2,450         | 7.31   |
|                          | lb  | *15,520   | *15,520   | *24,580   | 21,320  | *16,730   | 10,960  | 11,460  | 7,120   | 8,600   | 5,400         | (24.0) |
| -3.0 m (-10ft)           | kg  | *11,230   | *11,230   | *9,630  | *9,630  | *6,670  | 5,030   |   |   | *3,750  | 3,240         | 6.19   |
|                          | lb  | *24,760   | *24,760   | *21,230   | *21,230   | *14,700   | 11,090  |   |   | *8,270  | 7,140         | (20.3) |
| -4.5 m (-15ft)           | kg  |   |   | *6,270  | *6,270  |   |   |   |   |   |               |        |
|                          | lb  |   |   | *13,820   | *13,820   |   |   |   |   |   |               |        |

Boom : 5.10 m (16' 9") / Arm : 2.60 m (8' 6") / Bucket : 0.76 m<sup>3</sup> (0.92 yd<sup>3</sup>) SAE heaped / Shoe : 600mm(24") triple grouser

| Lift-point height (m/ft) | Lift-point radius   |   |   |   |   |   |   |   |   |   | At max. reach   |   |        |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
|                          | 1.5 m (5 ft)  |   | 3.0 m (10 ft)   |   | 4.5 m (15 ft)   |   | 6.0 m (20 ft)   |   | 7.5 m (25 ft)   |   | Capacity  |   | Reach  |        |
|                          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |        |
| 7.5 m (25 ft)            | kg  |   |   |   |   |   |   |   |   |   |   | *3,380  | *3,380 | 6.11   |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *7,450  | *7,450 | (20.0) |
| 6.0 m (20 ft)            | kg  |   |   |   |   |   | *3,020  | *3,020  |   |   |   | *3,360  | 2,660  | 7.37   |
|                          | lb  |   |   |   |   |   | *6,660  | *6,660  |   |   |   | *7,410  | 5,860  | (24.2) |
| 4.5 m (15 ft)            | kg  |   |   |   |   |   | *3,770  | 3,720   |   |   |   | *3,410  | 2,190  | 8.11   |
|                          | lb  |   |   |   |   |   | *8,310  | 8,200   |   |   |   | *7,520  | 4,830  | (26.6) |
| 3.0 m (10 ft)            | kg  |   |   | *7,910  | *7,910  | *5,310  | *5,310  | *4,300  | 3,560   | *2,810  | 2,420   | 3,130   | 1,970  | 8.48   |
|                          | lb  |   |   | *17,440   | *17,440   | *11,710   | *11,710   | *9,480  | 7,850   | *6,190  | 5,340   | 6,900   | 4,340  | (27.8) |
| 1.5 m (5 ft)             | kg  |   |   | *8,120  | *8,120  | *6,650  | 5,270   | *4,920  | 3,380   | *3,650  | 2,350   | 3,050   | 1,900  | 8.53   |
|                          | lb  |   |   | *17,900   | *17,900   | *14,660   | 11,620  | *10,850   | 7,450   | *8,050  | 5,180   | 6,720   | 4,190  | (28.0) |
| Ground Line              | kg  |   |   | *7,910  | *7,910  | *7,500  | 5,010   | 5,220   | 3,240   | *3,470  | 2,280   | 3,170   | 1,970  | 8.28   |
|                          | lb  |   |   | *17,440   | *17,440   | *16,530   | 11,050  | 11,510  | 7,140   | *7,650  | 5,030   | 6,990   | 4,340  | (27.2) |
| -1.5 m (-5 ft)           | kg  | *6,710  | *6,710  | *10,690   | 9,550   | *7,620  | 4,900   | 5,140   | 3,170   |   |   | 3,560   | 2,220  | 7.69   |
|                          | lb  | *14,790   | *14,790   | *23,570   | 21,050  | *16,800   | 10,800  | 11,330  | 6,990   |   |   | 7,850   | 4,890  | (25.2) |
| -3.0 m (-10 ft)          | kg  | *9,990  | *9,990  | *10,280   | 9,680   | *6,960  | 4,930   | *4,870  | 3,200   |   |   | *3,750  | 2,830  | 6.64   |
|                          | lb  | *22,020   | *22,020   | *22,660   | 21,340  | *15,340   | 10,870  | *10,740   | 7,050   |   |   | *8,270  | 6,240  | (21.8) |
| -4.5 m (-15 ft)          | kg  |   |   | *7,470  | *7,470  | *4,960  | *4,960  |   |   |   |   |   |        |        |
|                          | lb  |   |   | *16,470   | *16,470   | *10,930   | *10,930   |   |   |   |   |   |        |        |

- 1 | Lifting capacity are based on ISO 10567.
- 2 | Lifting capacity of HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3 | The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
- 4 | (\*) indicates load limited by hydraulic capacity.

 Rating over-front  Rating over-side or 360 degree

## R180LC-9S

Boom : 5.10 m (16' 9") / Arm : 3.10 m (11' 1") / Bucket : 0.76 m<sup>3</sup> (0.92 yd<sup>3</sup>) SAE heaped / Shoe : 600mm(24") triple grouser

| Lift-point height (m/ft) | Lift-point radius   |   |   |   |   |   |   |   |   |   | At max. reach   |   |        |        |        |        |       |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|--------|--------|-------|--------|
|                          | 1.5 m (5 ft)  |   | 3.0 m (10 ft)   |   | 4.5 m (15 ft)   |   | 6.0 m (20 ft)   |   | 7.5 m (25 ft)   |   | Capacity  |   | Reach  |        |        |        |       |        |
|                          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |        |        |        |       |        |
| 7.5 m (25 ft)            | kg  |   |   |   |   |   |   |   |   |   |   | *3,000  | *3,000 | 6.73   |        |        |       |        |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *6,610  | *6,610 | (22.1) |        |        |       |        |
| 6.0 m (20 ft)            | kg  |   |   |   |   |   |   |   |   | *2,870  | *2,870  | *3,020  | 2,360  | 7.88   |        |        |       |        |
|                          | lb  |   |   |   |   |   |   |   |   | *6,330  | *6,330  | *6,660  | 5,200  | (25.9) |        |        |       |        |
| 4.5 m (15 ft)            | kg  |   |   |   |   |   |   |   |   | *3,350  | *3,350  | *2,130  | *2,130 | *3,100 | 1,970  | 8.57   |       |        |
|                          | lb  |   |   |   |   |   |   |   |   | *7,390  | *7,390  | *4,700  | *4,700 | *6,830 | 4,340  | (28.1) |       |        |
| 3.0 m (10 ft)            | kg  |   |   |   |   |   |   |   |   | *4,710  | *4,710  | *3,930  | 3,580  | *3,090 | 2,420  | 2,870  | 1,780 | 8.91   |
|                          | lb  |   |   |   |   |   |   |   |   | *10,380   | *10,380   | *8,660  | 7,890  | *6,810 | 5,340  | 6,330  | 3,920 | (29.2) |
| 1.5 m (5 ft)             | kg  |   |   |   | *10,220   | *10,220   | *6,160  | 5,330   | *4,620  | 3,380   | 3,730   | 2,330   | 2,790  | 1,710  | 8.96   |        |       |        |
|                          | lb  |   |   |   | *22,530   | *22,530   | *13,580   | 11,750  | *10,190   | 7,450   | 8,220   | 5,140   | 6,150  | 3,770  | (29.4) |        |       |        |
| Ground Line              | kg  |   |   |   | *8,670  | *8,670  | *7,210  | 5,010   | *5,180  | 3,220   | 3,640   | 2,250   | 2,880  | 1,760  | 8.73   |        |       |        |
|                          | lb  |   |   |   | *19,110   | *19,110   | *15,900   | 11,050  | *11,420   | 7,100   | 8,020   | 4,960   | 6,350  | 3,880  | (28.6) |        |       |        |
| -1.5 m (-5 ft)           | kg  | *6,310  | *6,310  | *10,330   | 9,460   | *7,580  | 4,850   | 5,090   | 3,120   | *3,230  | 2,210   | 3,190   | 1,960  | 8.17   |        |        |       |        |
|                          | lb  | *13,910   | *13,910   | *22,770   | 20,860  | *16,710   | 10,690  | 11,220  | 6,880   | *7,120  | 4,870   | 7,030   | 4,320  | (26.8) |        |        |       |        |
| -3.0 m (-10 ft)          | kg  | *8,950  | *8,950  | *10,900   | 9,520   | *7,200  | 4,830   | 5,080   | 3,110   |   |   | *3,630  | 2,430  | 7.21   |        |        |       |        |
|                          | lb  | *19,730   | *19,730   | *24,030   | 20,990  | *15,870   | 10,650  | 11,200  | 6,860   |   |   | *8,000  | 5,360  | (23.7) |        |        |       |        |
| -4.5 m (-15 ft)          | kg  | *12,430   | *12,430   | *8,640  | *8,640  | *5,790  | 4,950   |   |   |   |   | *3,370  | *3,370 | 5.59   |        |        |       |        |
|                          | lb  | *27,400   | *27,400   | *19,050   | *19,050   | *12,760   | 10,910  |   |   |   |   | *7,430  | *7,430 | (18.3) |        |        |       |        |

- 1 | Lifting capacity are based on ISO 10567.
- 2 | Lifting capacity of HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3 | The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
- 4 | (\*) indicates load limited by hydraulic capacity.

# LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degree

## R180NLC-9S

Boom : 5.10 m (16' 9") / Arm : 2.20 m (7' 3") / Bucket : 0.76 m<sup>3</sup> (0.92 yd<sup>3</sup>) SAE heaped / Shoe : 600mm(24") triple grouser

| Lift-point height (m/ft) | Lift-point radius   |   |   |   |   |   |   |   |   |   | At max. reach |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---------------|--------|
|                          | 1.5 m (5 ft)  |   | 3.0 m (10 ft)   |   | 4.5 m (15 ft)   |   | 6.0 m (20 ft)   |   | Capacity  |   | Reach         |        |
|                          |  |  |  |  |  |  |  |  |  |  | m (ft)        |        |
| 7.5 m (25 ft)            | kg  |   |   |   |   |   |   |   |   | *3,750  | *3,750        | 5.60   |
|                          | lb  |   |   |   |   |   |   |   |   | *8,270  | *8,270        | (18.4) |
| 6.0 m (20 ft)            | kg  |   |   |   |   |   |   |   |   | *3,660  | 2,550         | 6.98   |
|                          | lb  |   |   |   |   |   |   |   |   | *8,070  | 5,620         | (22.9) |
| 4.5 m (15 ft)            | kg  |   |   |   | *4,570  | *4,570  | *4,110  | 3,230   |   | 3,680   | 2,060         | 7.76   |
|                          | lb  |   |   |   | *10,080   | *10,080   | *9,060  | 7,120   |   | 8,110   | 4,540         | (25.5) |
| 3.0 m (10 ft)            | kg  |   | *9,100  | *9,100  | *5,790  | 4,880   | *4,600  | 3,100   |   | 3,340   | 1,830         | 8.15   |
|                          | lb  |   | *20,060   | *20,060   | *12,760   | 10,760  | *10,140   | 6,830   |   | 7,360   | 4,030         | (26.7) |
| 1.5 m (5 ft)             | kg  |   |   |   | *7,030  | 4,530   | *5,160  | 2,940   |   | 3,260   | 1,770         | 8.20   |
|                          | lb  |   |   |   | *15,500   | 9,990   | *11,380   | 6,480   |   | 7,190   | 3,900         | (26.9) |
| Ground Line              | kg  |   | *7,120  | *7,120  | *7,680  | 4,320   | 5,220   | 2,820   |   | 3,400   | 1,840         | 7.94   |
|                          | lb  |   | *15,700   | *15,700   | *16,930   | 9,520   | 11,510  | 6,220   |   | 7,500   | 4,060         | (26.0) |
| -1.5 m (-5ft)            | kg  | *7,040  | *7,040  | *11,150   | 8,100   | *7,590  | 4,250   | 5,160   | 2,780   | 3,870   | 2,110         | 7.31   |
|                          | lb  | *15,520   | *15,520   | *24,580   | 17,860  | *16,730   | 9,370   | 11,380  | 6,130   | 8,530   | 4,650         | (24.0) |
| -3.0 m (-10ft)           | kg  | *11,230   | *11,230   | *9,630  | 8,250   | *6,670  | 4,310   |   |   | *3,750  | 2,800         | 6.19   |
|                          | lb  | *24,760   | *24,760   | *21,230   | 18,190  | *14,700   | 9,500   |   |   | *8,270  | 6,170         | (20.3) |
| -4.5 m (-15ft)           | kg  |   |   | *6,270  | *6,270  |   |   |   |   |   |               |        |
|                          | lb  |   |   | *13,820   | *13,820   |   |   |   |   |   |               |        |

Boom : 5.10 m (16' 9") / Arm : 2.60 m (8' 6") / Bucket : 0.76 m<sup>3</sup> (0.92 yd<sup>3</sup>) SAE heaped / Shoe : 600mm(24") triple grouser

| Lift-point height (m/ft) | Lift-point radius   |   |   |   |   |   |   |   |   |   | At max. reach   |   |        |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
|                          | 1.5 m (5 ft)  |   | 3.0 m (10 ft)   |   | 4.5 m (15 ft)   |   | 6.0 m (20 ft)   |   | 7.5 m (25 ft)   |   | Capacity  |   | Reach  |        |
|                          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |        |
| 7.5 m (25 ft)            | kg  |   |   |   |   |   |   |   |   |   |   | *3,380  | 3,290  | 6.11   |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *7,450  | 7,250  | (20.0) |
| 6.0 m (20 ft)            | kg  |   |   |   |   |   | *3,020  | *3,020  |   |   |   | *3,360  | 2,320  | 7.37   |
|                          | lb  |   |   |   |   |   | *6,660  | *6,660  |   |   |   | *7,410  | 5,110  | (24.2) |
| 4.5 m (15 ft)            | kg  |   |   |   |   |   | *3,770  | 3,250   |   |   |   | *3,410  | 1,890  | 8.11   |
|                          | lb  |   |   |   |   |   | *8,310  | 7,170   |   |   |   | *7,520  | 4,170  | (26.6) |
| 3.0 m (10 ft)            | kg  |   | *7,910  | *7,910  | *5,310  | 4,930   | *4,300  | 3,100   | *2,810  | 2,090   |   | 3,110   | 1,690  | 8.48   |
|                          | lb  |   | *17,440   | *17,440   | *11,710   | 10,870  | *9,480  | 6,830   | *6,190  | 4,610   |   | 6,860   | 3,730  | (27.8) |
| 1.5 m (5 ft)             | kg  |   | *8,120  | *8,120  | *6,650  | 4,550   | *4,920  | 2,930   | *3,650  | 2,020   |   | 3,030   | 1,620  | 8.53   |
|                          | lb  |   | *17,900   | *17,900   | *14,660   | 10,030  | *10,850   | 6,460   | *8,050  | 4,450   |   | 6,680   | 3,570  | (28.0) |
| Ground Line              | kg  |   | *7,910  | *7,910  | *7,500  | 4,290   | 5,180   | 2,790   | *3,470  | 1,960   |   | 3,150   | 1,680  | 8.28   |
|                          | lb  |   | *17,440   | *17,440   | *16,530   | 9,460   | 11,420  | 6,150   | *7,650  | 4,320   |   | 6,940   | 3,700  | (27.2) |
| -1.5 m (-5ft)            | kg  | *6,710  | *6,710  | *10,690   | 7,980   | *7,620  | 4,190   | 5,110   | 2,720   |   |   | 3,540   | 1,900  | 7.69   |
|                          | lb  | *14,790   | *14,790   | *23,570   | 17,590  | *16,800   | 9,240   | 11,270  | 6,000   |   |   | 7,800   | 4,190  | (25.2) |
| -3.0 m (-10ft)           | kg  | *9,990  | *9,990  | *10,280   | 8,100   | *6,960  | 4,210   | *4,870  | 2,750   |   |   | *3,750  | 2,440  | 6.64   |
|                          | lb  | *22,020   | *22,020   | *22,660   | 17,860  | *15,340   | 9,280   | *10,740   | 6,060   |   |   | *8,270  | 5,380  | (21.8) |
| -4.5 m (-15ft)           | kg  |   |   | *7,470  | *7,470  | *4,960  | 4,390   |   |   |   |   |   |        |        |
|                          | lb  |   |   | *16,470   | *16,470   | *10,930   | 9,680   |   |   |   |   |   |        |        |

1 | Lifting capacity are based on ISO 10567.  
 2 | Lifting capacity of HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.  
 3 | The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).  
 4 | (\*) indicates load limited by hydraulic capacity.

 Rating over-front  Rating over-side or 360 degree

## R180NLC-9S

Boom : 5.10 m (16' 9") / Arm : 3.10 m (11' 1") / Bucket : 0.76 m<sup>3</sup> (0.92 yd<sup>3</sup>) SAE heaped / Shoe : 600mm(24") triple grouser

| Lift-point height (m/ft) | Lift-point radius   |   |   |   |   |   |   |   |   |   | At max. reach   |   |         |        |         |        |         |        |       |        |       |       |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|--------|---------|--------|---------|--------|-------|--------|-------|-------|--------|
|                          | 1.5 m (5 ft)  |   | 3.0 m (10 ft)   |   | 4.5 m (15 ft)   |   | 6.0 m (20 ft)   |   | 7.5 m (25 ft)   |   | Capacity  |   | Reach   |        |         |        |         |        |       |        |       |       |        |
|                          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)  |        |         |        |         |        |       |        |       |       |        |
| 7.5 m (25 ft)            | kg  |   |   |   |   |   |   |   |   |   |   | *3,000  | 2,790   | 6.73   |         |        |         |        |       |        |       |       |        |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *6,610  | 6,150   | (22.1) |         |        |         |        |       |        |       |       |        |
| 6.0 m (20 ft)            | kg  |   |   |   |   |   |   |   |   |   |   | *2,870  | *2,870  | 7.88   |         |        |         |        |       |        |       |       |        |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *6,330  | *6,330  | (25.9) |         |        |         |        |       |        |       |       |        |
| 4.5 m (15 ft)            | kg  |   |   |   |   |   |   |   |   |   |   | *3,350  | 3,280   | *2,130 | *2,130  | *3,100 | 1,690   | 8.57   |       |        |       |       |        |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *7,390  | 7,230   | *4,700 | *4,700  | *6,830 | 3,730   | (28.1) |       |        |       |       |        |
| 3.0 m (10 ft)            | kg  |   |   |   |   |   |   |   |   |   |   | *4,710  | *4,710  | *3,930 | 3,120   | *3,090 | 2,090   | 2,850  | 1,520 | 8.91   |       |       |        |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *10,380   | *10,380 | *8,660 | 6,880   | *6,810 | 4,610   | 6,280  | 3,350 | (29.2) |       |       |        |
| 1.5 m (5 ft)             | kg  |   |   |   |   |   |   |   |   |   |   |   | *10,220 | 8,620  | *6,160  | 4,600  | *4,620  | 2,930  | 3,700 | 2,000  | 2,770 | 1,450 | 8.96   |
|                          | lb  |   |   |   |   |   |   |   |   |   |   |   | *22,530 | 19,000 | *13,580 | 10,140 | *10,190 | 6,460  | 8,160 | 4,410  | 6,110 | 3,200 | (29.4) |
| Ground Line              | kg  |   |   |   |   |   |   |   |   |   |   |   | *8,670  | 8,030  | *7,210  | 4,290  | 5,160   | 2,760  | 3,610 | 1,920  | 2,860 | 1,500 | 8.73   |
|                          | lb  |   |   |   |   |   |   |   |   |   |   |   | *19,110 | 17,700 | *15,900 | 9,460  | 11,380  | 6,080  | 7,960 | 4,230  | 6,310 | 3,310 | (28.6) |
| -1.5 m (-5 ft)           | kg  | *6,310  | *6,310  | *10,330   | 7,890   | *7,580  | 4,140   | 5,060   | 2,670   | *3,230  | 1,880   |   | 3,170   | 1,670  | 8.17    |        |         |        |       |        |       |       |        |
|                          | lb  | *13,910   | *13,910   | *22,770   | 17,390  | *16,710   | 9,130   | 11,160  | 5,890   | *7,120  | 4,140   |   | 6,990   | 3,680  | (26.8)  |        |         |        |       |        |       |       |        |
| -3.0 m (-10 ft)          | kg  | *8,950  | *8,950  | *10,900   | 7,950   | *7,200  | 4,120   | 5,040   | 2,660   |   |   |   | *3,630  | 2,080  | 7.21    |        |         |        |       |        |       |       |        |
|                          | lb  | *19,730   | *19,730   | *24,030   | 17,530  | *15,870   | 9,080   | 11,110  | 5,860   |   |   |   | *8,000  | 4,590  | (23.7)  |        |         |        |       |        |       |       |        |
| -4.5 m (-15 ft)          | kg  | *12,430   | *12,430   | *8,640  | 8,170   | *5,790  | 4,240   |   |   |   |   |   | *3,370  | 3,230  | 5.59    |        |         |        |       |        |       |       |        |
|                          | lb  | *27,400   | *27,400   | *19,050   | 18,010  | *12,760   | 9,350   |   |   |   |   |   | *7,430  | 7,120  | (18.3)  |        |         |        |       |        |       |       |        |

1 | Lifting capacity are based on ISO 10567.  
 2 | Lifting capacity of HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.  
 3 | The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).  
 4 | (\*) indicates load limited by hydraulic capacity.

# LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degree

## R180LCD-9S

Boom : 5.10 m (16' 9") / Arm : 2.20 m (7' 3") / Bucket : 0.76 m<sup>3</sup> (0.92 yd<sup>3</sup>) SAE heaped / Shoe : 600mm(24") triple grouser

| Lift-point height (m/ft) | Lift-point radius   |   |   |   |   |   |   |   | At max. reach   |   |        |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|--------|--------|
|                          | 1.5 m (5ft)   |   | 3.0 m (10ft)  |   | 4.5 m (15ft)  |   | 6.0 m (20ft)  |   | Capacity  |   | Reach  |        |
|                          |  |  |  |  |  |  |  |  |  |  | m (ft) |        |
| 7.5 m (25 ft)            | kg  |   |   |   |   |   |   |   |   | *3,750  | *3,750 | 5.60   |
|                          | lb  |   |   |   |   |   |   |   |   | *8,270  | *8,270 | (18.4) |
| 6.0 m (20 ft)            | kg  |   |   |   |   |   |   |   |   | *3,660  | 3,070  | 6.98   |
|                          | lb  |   |   |   |   |   |   |   |   | *8,070  | 6,770  | (22.9) |
| 4.5 m (15 ft)            | kg  |   |   |   |   | *4,570  | *4,570  | *4,110  | 3,880   | *3,690  | 2,510  | 7.76   |
|                          | lb  |   |   |   |   | *10,080   | *10,080   | *9,060  | 8,550   | *8,140  | 5,530  | (25.5) |
| 3.0 m (10 ft)            | kg  |   |   | *9,100  | *9,100  | *5,790  | *5,790  | *4,600  | 3,740   | *3,760  | 2,260  | 8.15   |
|                          | lb  |   |   | *20,060   | *20,060   | *12,760   | *12,760   | *10,140   | 8,250   | *8,290  | 4,980  | (26.7) |
| 1.5 m (5 ft)             | kg  |   |   |   |   | *7,030  | 5,530   | *5,160  | 3,580   | 3,740   | 2,190  | 8.20   |
|                          | lb  |   |   |   |   | *15,500   | 12,190  | *11,380   | 7,890   | 8,250   | 4,830  | (26.9) |
| Ground Line              | kg  |   |   | *7,120  | *7,120  | *7,680  | 5,310   | *5,520  | 3,460   | 3,910   | 2,280  | 7.94   |
|                          | lb  |   |   | *15,700   | *15,700   | *16,930   | 11,710  | *12,170   | 7,630   | 8,620   | 5,030  | (26.0) |
| -1.5 m (-5ft)            | kg  | *7,040  | *7,040  | *11,150   | 10,180  | *7,590  | 5,240   | *5,450  | 3,420   | *3,960  | 2,600  | 7.31   |
|                          | lb  | *15,520   | *15,520   | *24,580   | 22,440  | *16,730   | 11,550  | *12,020   | 7,540   | *8,730  | 5,730  | (24.0) |
| -3.0 m (-10ft)           | kg  | *11,230   | *11,230   | *9,630  | *9,630  | *6,670  | 5,300   |   |   | *3,750  | 3,420  | 6.19   |
|                          | lb  | *24,760   | *24,760   | *21,230   | *21,230   | *14,700   | 11,680  |   |   | *8,270  | 7,540  | (20.3) |
| -4.5 m (-15ft)           | kg  |   |   | *6,270  | *6,270  |   |   |   |   |   |        |        |
|                          | lb  |   |   | *13,820   | *13,820   |   |   |   |   |   |        |        |

Boom : 5.10 m (16' 9") / Arm : 2.60 m (8' 6") / Bucket : 0.76 m<sup>3</sup> (0.92 yd<sup>3</sup>) SAE heaped / Shoe : 600mm(24") triple grouser

| Lift-point height (m/ft) | Lift-point radius   |   |   |   |   |   |   |   |   |   | At max. reach   |   |        |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|
|                          | 1.5 m (5 ft)  |   | 3.0 m (10 ft)   |   | 4.5 m (15 ft)   |   | 6.0 m (20 ft)   |   | 7.5 m (25 ft)   |   | Capacity  |   | Reach  |        |
|                          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |        |
| 7.5 m (25 ft)            | kg  |   |   |   |   |   |   |   |   |   |   | *3,380  | *3,380 | 6.11   |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *7,450  | *7,450 | (20.0) |
| 6.0 m (20 ft)            | kg  |   |   |   |   |   |   | *3,020  | *3,020  |   |   | *3,360  | 2,800  | 7.37   |
|                          | lb  |   |   |   |   |   |   | *6,660  | *6,660  |   |   | *7,410  | 6,170  | (24.2) |
| 4.5 m (15 ft)            | kg  |   |   |   |   |   |   | *3,770  | *3,770  |   |   | *3,410  | 2,320  | 8.11   |
|                          | lb  |   |   |   |   |   |   | *8,310  | *8,310  |   |   | *7,520  | 5,110  | (26.6) |
| 3.0 m (10 ft)            | kg  |   |   | *7,910  | *7,910  | *5,310  | *5,310  | *4,300  | 3,750   | *2,810  | 2,570   | *3,500  | 2,090  | 8.48   |
|                          | lb  |   |   | *17,440   | *17,440   | *11,710   | *11,710   | *9,480  | 8,270   | *6,190  | 5,670   | *7,720  | 4,610  | (27.8) |
| 1.5 m (5 ft)             | kg  |   |   | *8,120  | *8,120  | *6,650  | 5,550   | *4,920  | 3,570   | *3,650  | 2,490   | 3,490   | 2,020  | 8.53   |
|                          | lb  |   |   | *17,900   | *17,900   | *14,660   | 12,240  | *10,850   | 7,870   | *8,050  | 5,490   | 7,690   | 4,450  | (28.0) |
| Ground Line              | kg  |   |   | *7,910  | *7,910  | *7,500  | 5,280   | *5,380  | 3,430   | *3,470  | 2,430   | 3,630   | 2,100  | 8.28   |
|                          | lb  |   |   | *17,440   | *17,440   | *16,530   | 11,640  | *11,860   | 7,560   | *7,650  | 5,360   | 8,000   | 4,630  | (27.2) |
| -1.5 m (-5 ft)           | kg  | *6,710  | *6,710  | *10,690   | 11,060  | *7,620  | 5,180   | *5,460  | 3,360   |   |   | *3,810  | 2,360  | 7.69   |
|                          | lb  | *14,790   | *14,790   | *23,570   | 22,180  | *16,800   | 11,420  | *12,040   | 7,410   |   |   | *8,400  | 5,200  | (25.2) |
| -3.0 m (-10 ft)          | kg  | *9,990  | *9,990  | *10,280   | 10,180  | *6,960  | 5,200   | *4,870  | 3,390   |   |   | *3,750  | 3,000  | 6.64   |
|                          | lb  | *22,020   | *22,020   | *22,660   | 22,440  | *15,340   | 11,460  | *10,740   | 7,470   |   |   | *8,270  | 6,610  | (21.8) |
| -4.5 m (-15 ft)          | kg  |   |   | *7,470  | *7,470  | *4,960  | *4,960  |   |   |   |   |   |        |        |
|                          | lb  |   |   | *16,470   | *16,470   | *10,930   | *10,930   |   |   |   |   |   |        |        |

1 | Lifting capacity are based on ISO 10567.  
 2 | Lifting capacity of HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.  
 3 | The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).  
 4 | (\*) indicates load limited by hydraulic capacity.

 Rating over-front  Rating over-side or 360 degree

## R180LCD-9S

Boom : 5.10 m (16' 9") / Arm : 3.10 m (11' 1") / Bucket : 0.76 m<sup>3</sup> (0.92 yd<sup>3</sup>) SAE heaped / Shoe : 600mm(24") triple grouser

| Lift-point height (m/ft) | Lift-point radius   |   |   |   |   |   |   |   |   |   | At max. reach   |   |         |         |        |         |       |        |       |       |       |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---------|---------|--------|---------|-------|--------|-------|-------|-------|--------|
|                          | 1.5 m (5 ft)  |   | 3.0 m (10 ft)   |   | 4.5 m (15 ft)   |   | 6.0 m (20 ft)   |   | 7.5 m (25 ft)   |   | Capacity  |   | Reach   |         |        |         |       |        |       |       |       |        |
|                          |  |  |  |  |  |  |  |  |  |  |  |  | m (ft)  |         |        |         |       |        |       |       |       |        |
| 7.5 m (25 ft)            | kg  |   |   |   |   |   |   |   |   |   |   | *3,000  | *3,000  | 6.73    |        |         |       |        |       |       |       |        |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *6,610  | *6,610  | (22.1)  |        |         |       |        |       |       |       |        |
| 6.0 m (20 ft)            | kg  |   |   |   |   |   |   |   |   | *2,870  | *2,870  | *3,020  | 2,490   | 7.88    |        |         |       |        |       |       |       |        |
|                          | lb  |   |   |   |   |   |   |   |   | *6,330  | *6,330  | *6,660  | 5,490   | (25.9)  |        |         |       |        |       |       |       |        |
| 4.5 m (15 ft)            | kg  |   |   |   |   |   |   |   |   | *3,350  | *3,350  | *2,130  | *2,130  | *3,100  | 2,090  | 8.57    |       |        |       |       |       |        |
|                          | lb  |   |   |   |   |   |   |   |   | *7,390  | *7,390  | *4,700  | *4,700  | *6,830  | 4,610  | (28.1)  |       |        |       |       |       |        |
| 3.0 m (10 ft)            | kg  |   |   |   |   |   |   |   |   | *4,710  | *4,710  | *3,930  | 3,770   | *3,090  | 2,570  | *3,200  | 1,890 | 8.91   |       |       |       |        |
|                          | lb  |   |   |   |   |   |   |   |   | *10,380   | *10,380   | *8,660  | 8,310   | *6,810  | 5,670  | *7,050  | 4,170 | (29.2) |       |       |       |        |
| 1.5 m (5 ft)             | kg  |   |   |   |   |   |   |   |   |   |   | *10,220   | *10,220 | *6,160  | 5,600  | *4,620  | 3,570 | *3,850 | 2,470 | 3,200 | 1,830 | 8.96   |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *22,530   | *22,530 | *13,580 | 12,350 | *10,190 | 7,870 | *8,490 | 5,450 | 7,050 | 4,030 | (29.4) |
| Ground Line              | kg  |   |   |   |   |   |   |   |   |   |   | *8,670  | *8,670  | *7,210  | 5,280  | *5,180  | 3,410 | *4,100 | 2,390 | 3,310 | 1,880 | 8.73   |
|                          | lb  |   |   |   |   |   |   |   |   |   |   | *19,110   | *19,110 | *15,900 | 11,640 | *11,420 | 7,520 | *9,040 | 5,270 | 7,300 | 4,140 | (28.6) |
| -1.5 m (-5 ft)           | kg  | *6,310  | *6,310  | *10,330   | 9,960   | *7,580  | 5,120   | *5,420  | 3,310   | *3,230  | 2,350   | *3,570  | 2,090   | 8.17    |        |         |       |        |       |       |       |        |
|                          | lb  | *13,910   | *13,910   | *22,770   | 21,960  | *16,710   | 11,290  | *11,950   | 7,300   | *7,120  | 5,180   | *7,870  | 4,610   | (26.8)  |        |         |       |        |       |       |       |        |
| -3.0 m (-10 ft)          | kg  | *8,950  | *8,950  | *10,900   | 10,020  | *7,200  | 5,110   | *5,110  | 3,300   |   |   | *3,630  | 2,580   | 7.21    |        |         |       |        |       |       |       |        |
|                          | lb  | *19,730   | *19,730   | *24,030   | 22,090  | *15,870   | 11,270  | *11,270   | 7,280   |   |   | *8,000  | 5,690   | (23.7)  |        |         |       |        |       |       |       |        |
| -4.5 m (-15 ft)          | kg  | *12,430   | *12,430   | *8,640  | *8,640  | *5,790  | 5,230   |   |   |   |   | *3,370  | *3,370  | 5.59    |        |         |       |        |       |       |       |        |
|                          | lb  | *27,400   | *27,400   | *19,050   | *19,050   | *12,760   | 11,530  |   |   |   |   | *7,430  | *7,430  | (18.3)  |        |         |       |        |       |       |       |        |

1 | Lifting capacity are based on ISO 10567.  
 2 | Lifting capacity of HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.  
 3 | The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).  
 4 | (\*) indicates load limited by hydraulic capacity.

# BUCKET SELECTION GUIDE & DIGGING FORCE

## BUCKETS



SAE heaped m<sup>3</sup> (yd<sup>3</sup>)      0.39(0.51)      0.50(0.65)      0.64(0.84)      0.76(0.99)      0.89(1.16)      1.05(1.37)       0.69(0.90)

| Capacity m <sup>3</sup> (yd <sup>3</sup> )     |             | Width mm (in)        |                   | Weight kg (lb) | Recommendation mm (ft.in) |                   |                    |
|--|-------------|----------------------|-------------------|----------------|---------------------------|-------------------|--------------------|
| SAE heaped                                     | CECE heaped | Without side cutters | With side cutters |                | 5,100 (16' 9") Mono Boom  |                   |                    |
|  |             |                      |                   |                | 2,200 (7' 3") Arm         | 2,600 (8' 6") Arm | 3,100 (10' 2") Arm |
| 0.39(0.51)                                     | 0.34(0.44)  | 620(24.4)            | 740(29.1)         | 410(900)       | ●                         | ●                 | ●                  |
| 0.50(0.65)                                     | 0.44(0.58)  | 760(29.9)            | 880(34.6)         | 470(1,040)     | ●                         | ●                 | ●                  |
| 0.64(0.84)                                     | 0.55(0.72)  | 920(36.2)            | 1,040(40.9)       | 510(1,120)     | ●                         | ●                 | ■                  |
| 0.76(0.99)                                     | 0.65(0.85)  | 1,060(41.7)          | 1,180(46.5)       | 570(1,260)     | ●                         | ■                 | ▲                  |
| 0.89(1.16)                                     | 0.77(1.01)  | 1,220(48.0)          | 1,340(52.8)       | 610(1,340)     | ■                         | ▲                 | -                  |
| 1.05(1.37)                                     | 0.90(1.18)  | 1,400(55.1)          | 1,520(59.8)       | 680(1,500)     | ▲                         | -                 | -                  |
| <input checked="" type="checkbox"/> 0.69(0.90) | 0.62(0.81)  | 990(39.0)            | -                 | 700(1,540)     | ●                         | ■                 | ▲                  |

Heavy duty bucket

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

## ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 5.65 m, 5.68 m & 8.2 m Booms and 2.0 m, 2.4 m, 2.92 m, 3.9 m & 6.3 m Arms are available.

## DIGGING FORCE

| Boom                 | Length | mm (ft.in) | 5,100 (16' 9")  |                 |                 | Remark           |
|----------------------|--------|------------|-----------------|-----------------|-----------------|------------------|
|                      | Weight | kg (lb)    | 1,250 (2,760)   |                 |                 |                  |
| Arm                  | Length | mm (ft.in) | 2,200 (7' 3")   | 2,600 (8' 6")   | 3,100 (10' 2")  | [ ]: Power Boost |
|                      | Weight | kg (lb)    | 750 (1,560)     | 810 (1,790)     | 890 (1,960)     |                  |
| Bucket digging force | SAE    | kN         | 107.9 [117.2]   | 107.9 [117.2]   | 107.9 [117.2]   |                  |
|                      |        | kgf        | 11,000 [11,940] | 11,000 [11,940] | 11,000 [11,940] |                  |
|                      |        | lbf        | 24,250 [26,330] | 24,250 [26,330] | 24,250 [26,330] |                  |
|                      | ISO    | kN         | 123.6 [134.2]   | 123.6 [134.2]   | 123.6 [134.2]   |                  |
|                      |        | kgf        | 12,600 [13,680] | 12,600 [13,680] | 12,600 [13,680] |                  |
|                      |        | lbf        | 27,780 [30,160] | 27,780 [30,160] | 27,780 [30,160] |                  |
| Arm crowd force      | SAE    | kN         | 87.2 [94.7]     | 77.3 [83.9]     | 69.0 [74.9]     |                  |
|                      |        | kgf        | 8,890 [9,650]   | 7,880 [8,560]   | 7,030 [7,630]   |                  |
|                      |        | lbf        | 19,600 [21,280] | 17,370 [18,860] | 15,500 [16,830] |                  |
|                      | ISO    | kN         | 91.0 [98.8]     | 80.3 [87.2]     | 71.4 [77.5]     |                  |
|                      |        | kgf        | 9,280 [10,080]  | 8,190 [8,890]   | 7,280 [7,900]   |                  |
|                      |        | lbf        | 20,460 [22,210] | 18,060 [19,600] | 16,050 [17,430] |                  |

Note : Boom weight includes arm cylinder, piping, and pin  
 Arm weight includes bucket cylinder, linkage, and pin

# STANDARD / OPTION

## STANDARD EQUIPMENT

|  |
|--|
| <b>ISO Standard cabin</b>  |
| All-weather steel cab with 360° visibility                               |
| Safety glass windows   |
| Rise-up type windshield wiper  |
| Sliding fold-in front window   |
| Sliding side window(LH)  |
| Lockable door  |
| Hot & cool box   |
| Storage compartment & Ashtray  |
| Radio & USB player   |
| Cabin roof-steel cover   |
| 12 volt power outlet (24V DC to 12V DC converter)                        |
| <b>Computer aided power optimization (New CAPO) system</b>               |
| 3-power mode, 2-work mode, user mode                                     |
| Auto deceleration & one-touch deceleration system                        |
| Auto warm-up system  |
| Auto overheat prevention system  |
| <b>Automatic climate control</b>   |
| Air conditioner & heater   |
| Defroster  |
| <b>Self-diagnostics system</b>   |
| <b>Starting Aid (air grid heater) for cold weather</b>                   |
| <b>Centralized monitoring</b>  |
| LCD display  |
| Engine speed or Trip meter / Accel                                       |
| Clock  |
| Gauges   |
| Fuel level gauge   |
| Engine coolant temperature gauge   |
| Hyd. oil temperature gauge   |
| Warnings   |
| Overload   |
| Communication error  |
| Low battery  |
| Air cleaner clogging   |
| Indicators   |
| Max power  |
| Low speed/High speed   |
| Fuel warmer  |
| Auto idle  |
| <b>Door and cab locks, one key</b>                                       |
| <b>Two outside rearview mirrors</b>                                      |
| <b>Fully adjustable suspension seat with seat belt</b>                   |
| <b>Pilot-operated slidable joystick</b>                                  |
| <b>Four front working lights (2 boom mounted, 2 front frame mounted)</b> |
| <b>Electric horn</b>   |
| <b>Batteries (2 x 12V x 100 AH)</b>                                      |
| <b>Battery master switch</b>   |
| <b>Removable clean-out dust net for cooler</b>                           |
| <b>Automatic swing brake</b>   |
| <b>Removable reservoir tank</b>  |
| <b>Fuel pre-filter</b>   |
| <b>Boom holding system</b>   |
| <b>Arm holding system</b>  |
| <b>Track shoes (600mm, 24")</b>  |
| <b>Track rail guard</b>  |
| <b>Accumulator for lowering work equipment</b>                           |
| <b>Electric transducer</b>   |
| <b>Lower frame under cover (Normal)</b>                                  |

## OPTIONAL EQUIPMENT

|   |
|---|
| <b>Fuel filler pump (35 L/min)</b>                |
| <b>Beacon lamp</b>                                |
| <b>Single-acting piping kit (breaker, etc.)</b>   |
| <b>Double-acting piping kit (clamshell, etc.)</b> |
| <b>Quick coupler</b>                              |
| <b>Travel alarm</b>                               |
| <b>Booms</b>                                      |
| 5.1 m, 16' 9"                                     |
| <b>Arms</b>                                       |
| 2.2 m, 7' 3"                                      |
| 2.6 m, 8' 6"                                      |
| 3.1 m, 10' 2"                                     |
| <b>Cabin FOPS/FOG (ISO/DIS 10262 Level II)</b>    |
| FOPS (Falling Object Protective Structure)        |
| FOG (Falling Object Guard)                        |
| <b>Cabin lights</b>                               |
| <b>Cabin front window rain guard</b>              |
| <b>Sun visor</b>                                  |
| <b>Track shoes</b>                                |
| Triple grousers shoe (500mm, 20")                 |
| Triple grousers shoe (700mm, 28")                 |
| Triple grousers shoe (800 mm, 32")                |
| <b>Lower frame under cover (Additional)</b>       |
| <b>Tool kit</b>                                   |
| <b>Operator suit</b>                              |
| <b>Rearview camera</b>                            |
| <b>Seat</b>                                       |
| Mechanical suspension seat with heater            |
| <b>Hi-mate (Remote Management System)</b>         |
| <b>Fuel warmer</b>                                |
| <b>Air compressor</b>                             |
| <b>Cabin-winenet guard / Finenet guard</b>        |
| <b>Blade</b>                                      |
| 640mm (2' 1") x 2,750mm (9' 1")                   |
| 640mm (2' 1") x 2,850mm (9' 5")                   |
| 640mm (2' 1") x 3,050mm (10' 1")                  |

\* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.  
 \* The photos may include attachments and optional equipment that are not available in your area.  
 \* Materials and specifications are subject to change without advance notice.  
 \* All imperial measurements rounded off to the nearest pound or inch.