Robex

# 145LCR-9A

With Tier 4 Interim Engine installed

MOVING YOU FURTHER

**HYUNDAI HEAVY INDUSTRIES**


*Photo may include optional equipment

HYUNDAI

CONSTRUCTION EQUIPMENT AMERICAS, INC.

# PRIDE AT WORK

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!***

# Robex 145LCR-9A


*Photo may include optional equipment.

## Machine Walk-Around

### Engine Technology

Proven, reliable, fuel efficient, low emission and low noise
Perkins Tier 4 interim & EU stage III B engine

### 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 valve, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock, arm regeneration

### Enhanced Operator Cab

**Improved Visibility**
Enlarged cab with improved visibility / See-through upper skylight for visibility and ventilation
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
Heated suspension (standard), New joystick consoles

**Advanced 7" Color Cluster with Touch Screen**
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 download capability
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
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

# PRECISION

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


*Photo may include optional equipment.

# 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 the electronically controlled engine to provide the optimum level of engine power and 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 engine power based on load demand. Three unique power modes provide the operator with custom power, speed and fuel economy.

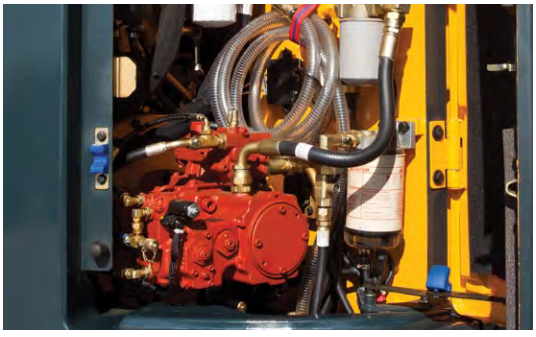
## Work Mode

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 9A 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.

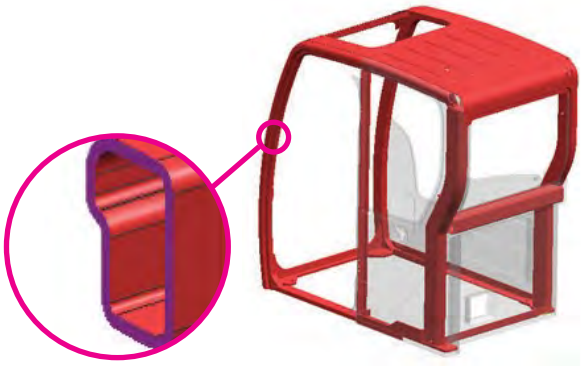
# PERFORMANCE

9A series is designed for maximum performance to keep the operator working productively.


*Photo may include optional equipment.

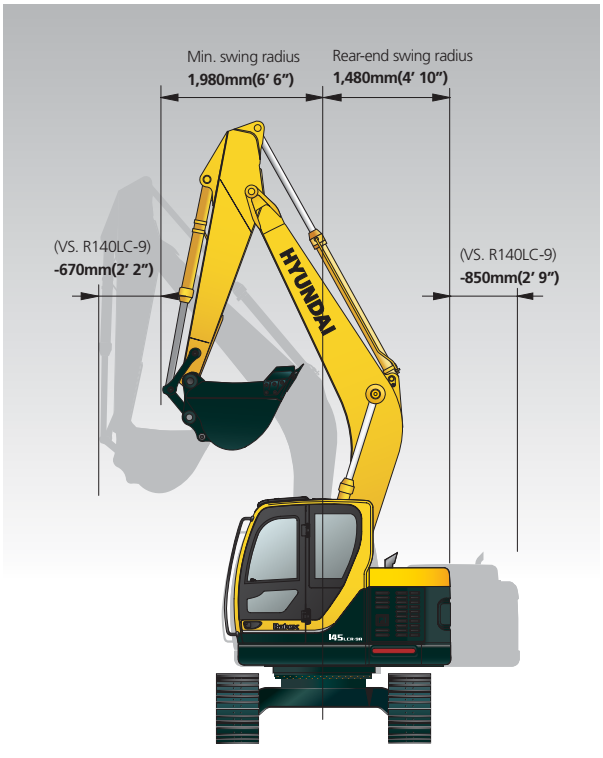
## Track Rail Guard & Adjusters

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



## Structure Strength

The 9A 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.
ROPS(Roll Over Protective Structure) cab can be equipped to enhance operator safety.




## Excellent Performance in Confined Areas

R145LCR-9A's short (1,480mm) tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This Compact radius design provides easy and efficient operation in any limited space work environment.

# Perkins 1204E Engine

Tier 4 interim, four cylinder, 4 cycle, turbo-charged, charge air cooled Perkins 1204E engine provides maximum power, reliability, optimum fuel economy, and reduced emissions. Electronically controlled fuel injection and diagnostic capabilities add to the engines efficiency and serviceability.

### Better Performance

Using DPF (Diesel Particulate Filter) enables uncompromised, fuel economy and reduced cooling pack size, because the engine calibration does not solely need to be focussed on low paticulates. By using mainly passive regeneration and low back pressure aftertreatment designs fuel economy is not negatively impacted.

### Integrated aftertreatment without operating impact

The 1204E engines have fully transparent regeneration strategies and service free DPF, completely seamless to the operator.

### One solution for all regions

Area mandating the use of DPF are increasing and european air quality directive will drive more non-attainment zones. Because our products use DPFs, our customers don't have to offer a retrofit DPF option to allow machines to operate in these territories.

# PREFERENCE

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

*Photo may include optional equipment.

### 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 Comfort

In the 9A 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. Additional creature comforts 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 9A 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 and MP3 capabilities, plus remotely located controls is perfect for listening to music favorites. Operators can even talk on the phone with the hands-free cell phone feature. Also, the newly designed optional remote control offers mobile bluetooth-handsfree and radio cable-handsfree function.


## Smart Key System (Option)

9A series excavators provide smart key system as an option. This allows the operator to start the engine by the push of a starter button without inserting a key in the ignition.

## Operator - Friendly Cluster

The advanced new cluster with 7 inch wide color LCD with touch 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, and video functions were integrated into the cluster to make the machine more versatile and the operator more productive.
The newly applied FM transmitter application transmits signal to USB & Radio player with the same frequency as cluster. The player outputs the audio through the internal speaker in the cab. The video & firmware updates are possible with USB host support and an adjustable cluster hinge bracket improves cluster visibility.

### Monitor Tilt Range

**Horizontal**
Total : 15°

**Vertical**
Total : 30°

# PROFITABILITY

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


*Photo may include optional equipment.

## Fuel Efficiency

9A 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.


## Hi-mate (Remote Management System)

Hi-mate, Hyundai's proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access. Users can pinpoint machine location using digital mapping and set machine work boundaries, reducing the need for multiple service calls. Hi-mate saves time and money for the owner and dealer by promoting preventative maintenance and reducing machine downtime.

## Easy Access

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



## Long-Life Components

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

# Specifications

## ENGINE

| | | | |
|---|---|---|---|
| MODEL | | | Perkins 1204E |
| Type | | | Water cooled, 4 cycle Diesel, 4-cylinders in line, direct injection, turbocharged charger and air cooled |
| Rated flywheel horse power | SAE | J1995 (gross) | 124 HP (92.7 kW) / 1,950 rpm |
| | | J1349 (net) | 116 HP (87 kW) / 1,950 rpm |
| | DIN | 6271/1 (gross) | 126 PS (92.7 kW) / 1,950 rpm |
| | | 6271/1 (net) | 118 PS (87 kW) / 1,950 rpm |
| Max. torque | | | 54.0 kgf·m(391 lbf·ft)/ 1,400 rpm |
| Bore X stroke | | | 105 x 127 mm (4.1" x 5.0") |
| Piston displacement | | | 4,400cc (268.5 $in^3$) |
| Batteries | | | 2 X 12V X 100AH |
| Starting motor | | | 24V- 4.5kW |
| Alternator | | | 24V- 85Amp |

## HYDRAULIC SYSTEM

| MAIN PUMP | |
|---|---|
| Type | Variable displacement tandem axis piston pumps |
| Rated flow | 2 X 123.5L /min (32.6 US gpm / 27.2 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/$cm^2$ (4,980 psi) |
| Travel | 350 kgf/$cm^2$ (4,980 psi) |
| Power boost (boom, arm, bucket) | 380 kgf/$cm^2$ (5,410 psi) |
| Swing circuit | 285 kgf/$cm^2$ (4,050 psi) |
| Pilot circuit | 40 kgf/$cm^2$ (570 psi) |
| Service valve | Installed |

| HYDRAULIC CYLINDERS | | |
|---|---|---|
| No. of cylinder bore X stroke | Boom: 2-105 X 1,105 mm (4.1" X 43.5") | |
| | Arm: 1-115 X 1,138 mm (4.5" X 44.8") | |
| | Bucket: 1-100 X 840 mm (3.9" X 33.1") | |
| | Blade: 2-100 X 250 mm (3.9" X 9.8") | |
| | 2 pcs Boom | 1st: 2-105 X 995 mm (4.1" X 39.2") |
| | | 2nd: 1-145 X 613 mm (5.7" X 24.1") |

## DRIVES & BRAKES

| | |
|---|---|
| Drive method | Fully hydrostatic type |
| Drive motor | Axial piston motor, in-shoe design |
| Reduction system | Planetary reduction gear |
| Max. drawbar pull | 13,300 kgf (29,321 lbf) |
| Max. travel speed(high) / (low) | 5.5 km/hr (3.4 mph) / 3.3 km/hr (2.1 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 |

## SWING SYSTEM

| | |
|---|---|
| Swing motor | Fixed displacement axial piston motor |
| Swing reduction | Planetary gear reduction |
| Swing bearing lubrication | Grease-bathed |
| Swing brake | Multi wet disc |
| Swing speed | 11.5 rpm |

## COOLANT & LUBRICANT CAPACITY

| Refilling | liter | US gal | UK gal |
|---|---|---|---|
| Fuel tank | 232 | 61.3 | 51.0 |
| Engine coolant | 14.5 | 2.8 | 2.3 |
| Engine oil | 10.5 | 4.6 | 3.8 |
| Swing device-gear oil | 2.5 | 0.7 | 0.5 |
| Final drive(each)-gear oil | 2.2 | 0.6 | 0.5 |
| Hydraulic system(including tank) | 180 | 47.6 | 39.6 |
| Hydraulic tank | 96 | 25.4 | 21.1 |

## 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 | R145CR-9A | 45EA | R145LCR-9A | 47EA |
| No. of carrier roller on each side | | 1 EA | | 2 EA |
| No. of track roller on each side | | 7 EA | | 7 EA |
| No. of rail guard on each side | | 2 EA | | 2 EA |

## OPERATING WEIGHT (APPROXIMATE)

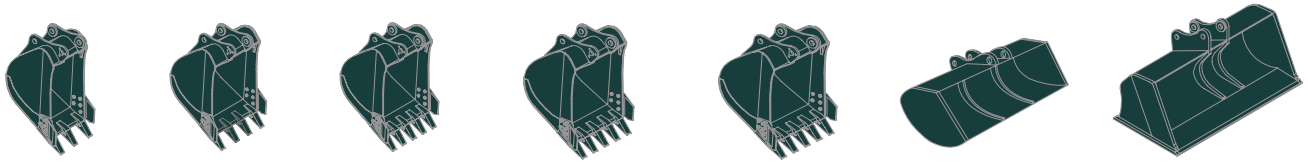
Operating weight, including 4,600mm (15' 1") boom, 2,500mm (8' 2") arm, SAE heaped 0.52$m^3$ (0.68 $yd^3$) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

| MAJOR COMPONENT WEIGHT | |
|---|---|
| Upperstructure | 6,950 kg (15,320 lb) |
| 4.6m (15' 1")mono boom(with arm cylinder) | 1,030 kg (2,270 lb) |

| OPERATING WEIGHT | | | | |
|---|---|---|---|---|
| Shoes | | | Operating weight | Ground pressure |
| Type | Width mm(in) | | kg(lb) | kgf/$cm^2$(psi) |
| Triple grouser | 500 (20") | R145CR-9A | 14,600(32,190) | 0.46(6.54) |
| | | R145CR-9A (Dozer type) | 15,400(33,950) | 0.49(6.97) |
| | | R145LCR-9A | 14,785(32,600) | 0.44(6.26) |
| | | R145LCR-9A (Dozer type) | 15,585(34,360) | 0.47(6.68) |
| | 600 (24") | R145CR-9A | 14,790(32,610) | 0.39(5.55) |
| | | R145CR-9A (Dozer type) | 15,610(34,410) | 0.41(5.83) |
| | | R145LCR-9A | 14,980(33,020) | 0.37(5.26) |
| | | R145LCR-9A (Dozer type) | 15,800(34,830) | 0.40(5.69) |
| | 700 (28") | R145CR-9A | 15,020(33,110) | 0.34(4.83) |
| | | R145CR-9A (Dozer type) | 15,840(34,920) | 0.36(5.12) |
| | | R145LCR-9A | 15,215(33,540) | 0.33(4.69) |
| | | R145LCR-9A (Dozer type) | 16,035(35,350) | 0.34(4.83) |

## BUCKETS

All buckets are welded with high-strength steel.



| SAE heaped $m^3$ ($yd^3$) | 0.23 (0.30) | 0.40 (0.52)<br>0.46 (0.60) | 0.52 (0.68)<br>0.58 (0.76) | 0.65 (0.85) | 0.71 (0.93) | ◉0.45 (0.59) | ★ 0.55 (0.72) |
|---|---|---|---|---|---|---|---|

| Capacity $m^3$ ($yd^3$) | | Width mm (in) | | Weight kg (lb) | Recommendation mm (ft-in) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 4,600 (15′ 1″) Boom | | | |
| SAE heaped | CECE heaped | Without sidecutters | With sidecutters | | 1,900 (6′ 3″) Arm | 2,100 (6′ 11″) Arm | 2,500 (8′ 2″) Arm | 3,000 (9′ 10″) Arm |
| 0.23 (0.30) | 0.20(0.26) | 520(20.5) | 620(24.4) | 335(740) | ● | ● | ● | ■ |
| 0.40 (0.52) | 0.35(0.46) | 760(29.9) | 860(33.9) | 410(900) | ● | ● | ● | ■ |
| 0.46 (0.60) | 0.40(0.52) | 850(33.5) | 950(37.4) | 435(960) | ● | ● | ● | ▲ |
| 0.52 (0.68) | 0.45(0.59) | 935(36.8) | 1,035(40.8) | 460(1,010) | ● | ● | ● | – |
| 0.58 (0.76) | 0.50(0.65) | 1,030(40.6) | 1,130(44.5) | 480(1,060) | ● | ● | ■ | – |
| 0.65 (0.85) | 0.55(0.72) | 1,110(43.7) | 1,210(47.6) | 500(1,100) | ■ | ■ | ▲ | – |
| 0.71 (0.93) | 0.60(0.78) | 1,205(47.4) | - | 540(1,190) | ▲ | ▲ | – | – |
| ◉ 0.45 (0.59) | 0.40(0.52) | 1,520(59.8) | - | 410(900) | ● | ● | ■ | – |
| ★ 0.55 (0.72) | 0.45(0.59) | 1,800(70.9) | - | 585(1,290) | ■ | ▲ | ▲ | – |

◉ Ditching bucket

★ Slope finishing bucket

● : Applicable for materials with density of 2,000 kg /$m^3$ (3,370 lb/ $yd^3$) or less

■ : Applicable for materials with density of 1,600 kg /$m^3$ (2,700 lb/ $yd^3$) or less

▲ : Applicable for materials with density of 1,100 kg /$m^3$ (1,850 lb/ $yd^3$) or less

## ATTACHMENT

Booms and arms are welded, a low-stress, full-box section design. 4.6m(15′ 1″) boom and 1.9m(6′ 3″), 2.1m(6′ 11″), 2.5m(8′ 2″), 3.0m(9′ 10″)arms are available.

## DIGGING FORCE

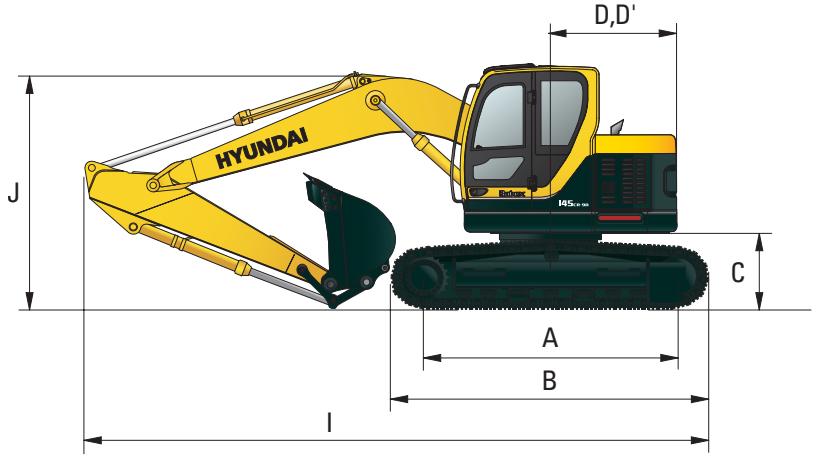
| Boom | Length | mm (ft-in) | 4,600 (15′ 1″) | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | Weight | kg (lb) | 1,030 (2,270) | | | | |
| Arm | Length | mm (ft-in) | 1,900 (6′ 3″) | 2,100 (6′ 11″) | 2,500 (8′ 2″) | 3,000 (9′ 10″) | |
| | Weight | kg (lb) | 560 (1,230) | 580 (1,280) | 610 (1,340) | 670 (1,480) | |
| Bucket digging force | SAE | kN | 87.3[94.8] | 87.3[94.8] | 87.3[94.8] | 87.3[94.8] | [ ]: Power Boost |
| | | kgf | 8,900[9,660] | 8,900[9,660] | 8,900[9,660] | 8,900[9,660] | |
| | | lbf | 19,620[21,300] | 19,620[21,300] | 19,620[21,300] | 19,620[21,300] | |
| | ISO | kN | 102[110.8] | 102[110.8] | 102[110.8] | 102[110.8] | |
| | | kgf | 10,400[11,290] | 10,400[11,290] | 10,400[11,290] | 10,400[11,290] | |
| | | lbf | 22,930[24,890] | 22,930[24,890] | 22,930[24,890] | 22,930[24,890] | |
| Arm crowd force | SAE | kN | 76.5[83.1] | 73.6[79.9] | 62.8[68.2] | 55.9[60.7] | |
| | | kgf | 7,800[8,470] | 7,500[8,140] | 6,400[6,950] | 5,700[6,190] | |
| | | lbf | 17,200[18,670] | 16,530[17,950] | 14,110[15,320] | 12,570[13,640] | |
| | ISO | kN | 80.4[87.3] | 77.5[84.1] | 65.7[71.4] | 57.9[62.8] | |
| | | kgf | 8,200[8,900] | 7,900[8,580] | 6,700[7,270] | 5,900[6,410] | |
| | | lbf | 18,080[19,630] | 17,420[18,910] | 14,770[16,040] | 13,010[14,120] | |

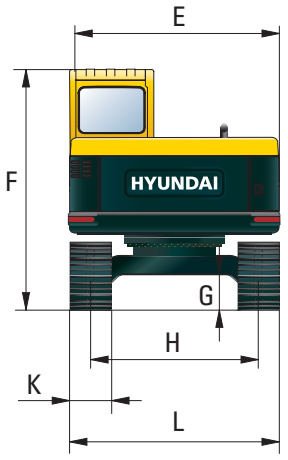
Note: Boom weight includes arm cylinder, piping, and pin

Arm weight includes bucket cylinder, linkage, and pin

# Dimensions & Working Range

## R145CR-9A DIMENSIONS




mm (ft·in)

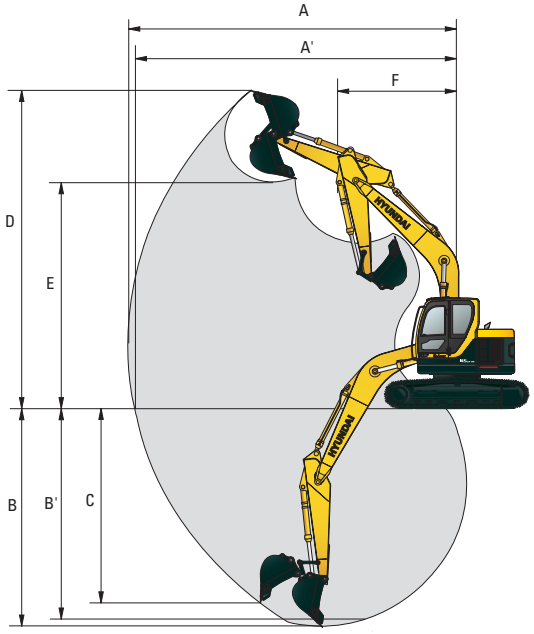
| | |
|---|---|
| **A** Tumbler distance | 2,910 (9' 7") |
| **B** Overall length of crawler | 3,640 (11' 11") |
| **C** Ground clearance of counterweight | 930 (3′ 1″) |
| **D** Tail swing radius | 1,480 (4′ 10″) |
| **D′** Rear-end length | 1,480 (4′ 10″) |
| **E** Overall width of upperstructure | 2,500 (8′ 2″) |
| **F** Overall height of cab | 2,900 (9′ 6″) |
| **G** Min. ground clearance | 440 (1′ 5″) |
| **H** Track gauge | 2,000 (6′ 7″) |

| | | | | |
|---|---|---|---|---|
| Boom length | 4,600(15′ 1″) | | | |
| Arm length | 1,900 (6′ 3″) | 2,100 (6′ 11″) | 2,500 (8′ 2″) | 3,000 (9′ 10″) |
| **I** Overall length | 7,290 (23′ 11″) | 7,310 (23′ 12″) | 7,270 (23′ 10″) | 7,210 (23′ 8″) |
| **J** Overall height of boom | 2,630 (8′ 8″) | 2,710 (8′ 11″) | 2,860 (9′ 5″) | 3,210 (10′ 6″) |

| | | | |
|---|---|---|---|
| **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″) |

## R145CR-9A WORKING RANGE

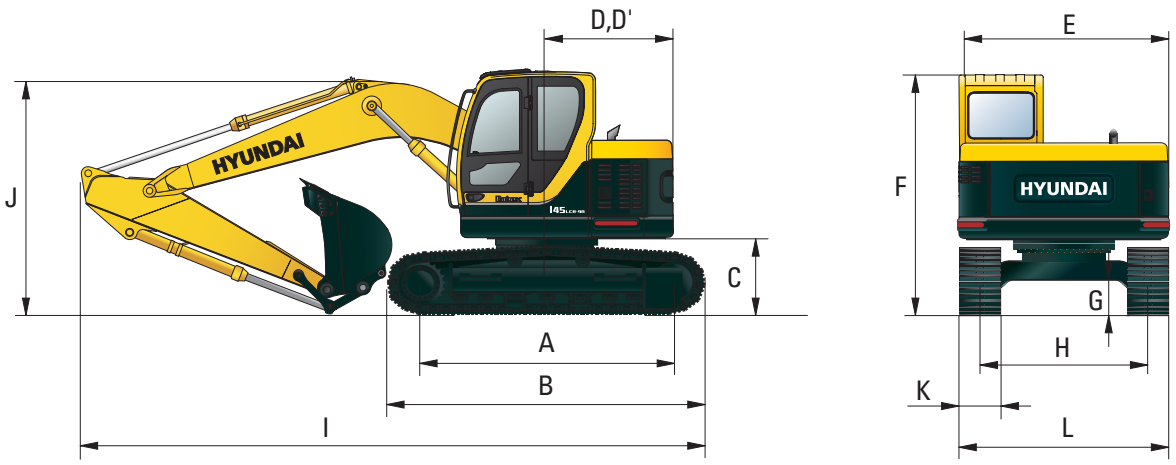
mm (ft·in)




| | | | | |
|---|---|---|---|---|
| Boom length | 4,600(15′ 1″) | | | |
| Arm length | 1,900 (6′ 3″) | 2,100 (6′ 11″) | 2,500 (8′ 2″) | 3,000 (9′ 10″) |
| **A** Max. digging reach | 7,730 (25′ 4″) | 7,900 (25′ 11″) | 8,310 (27′ 3″) | 8,770 (28′ 9″) |
| **A′** Max. digging reach on ground | 7,580 (24′ 10″) | 7,750 (25′ 0″) | 8,170 (26′ 10″) | 8,630 (28′ 4″) |
| **B** Max. digging depth | 4,890 (16′ 1″) | 5,100 (16′ 9″) | 5,500 (18′ 1″) | 5,990 (19′ 8″) |
| **B′** Max. digging depth (8' level) | 4,640 (15′ 3″) | 4,870 (16′ 0″) | 5,290 (17′ 4″) | 5,810 (19′ 1″) |
| **C** Max. vertical wall digging depth | 4,400 (14′ 5″) | 4,600 (15′ 1″) | 5,000 (16′ 5″) | 5,400 (17′ 9″) |
| **D** Max. digging height | 8,840 (29′ 0″) | 8,970 (29′ 5″) | 9,350 (30′ 8″) | 9,730 (31′ 11″) |
| **E** Max. dumping height | 6,350 (20′ 10″) | 6,470 (21′ 3″) | 6,850 (22′ 6″) | 7,230 (23′ 9″) |
| **F** Min. swing radius | 1,860 (6′ 1″) | 2,030 (6′ 8″) | 1,980 (6′ 6″) | 2,260 (7′ 5″) |

# Dimensions & Working Range

## R145LCR-9A DIMENSIONS




mm (ft·in)

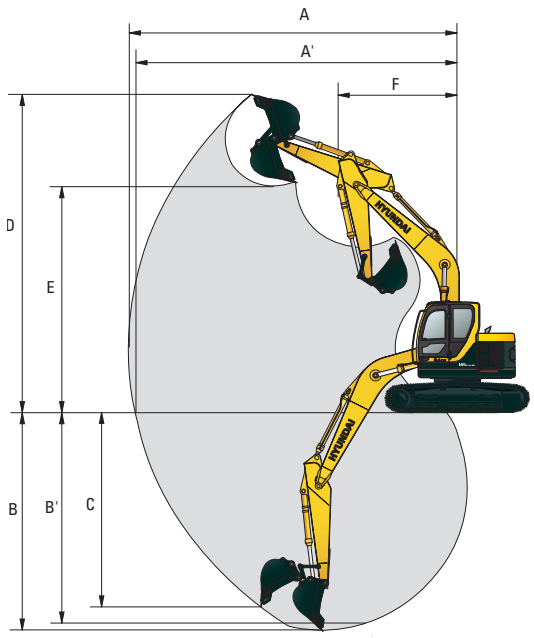
| | | |
|---|---|---|
| **A** | Tumbler distance | 3,090 (10' 2") |
| **B** | Overall length of crawler | 3,820 (12' 6") |
| **C** | Ground clearance of counterweight | 930 (3' 1") |
| **D** | Tail swing radius | 1,480 (4' 10") |
| **D'** | Rear-end length | 1,480 (4' 10") |
| **E** | Overall width of upperstructure | 2,500 (8' 2") |
| **F** | Overall height of cab | 2,900 (9' 6") |
| **G** | Min. ground clearance | 440 (1' 5") |
| **H** | Track gauge | 2,000 (6' 7") |

| | | | | | |
|---|---|---|---|---|---|
| | Boom length | 4,600(15' 1") | | | |
| | Arm length | 1,900 (6' 3") | 2,100 (6' 11") | 2,500 (8' 2") | 3,000 (9' 10") |
| **I** | Overall length | 7,380 (24' 3") | 7,400 (24' 3") | 7,360 (24' 2") | 7,300 (23' 11") |
| **J** | Overall height of boom | 2,630 (8' 8") | 2,710 (8' 11") | 2,860 (9' 5") | 3,210 (10' 6") |

| | | | | |
|---|---|---|---|---|
| **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") |

## R145LCR-9A WORKING RANGE

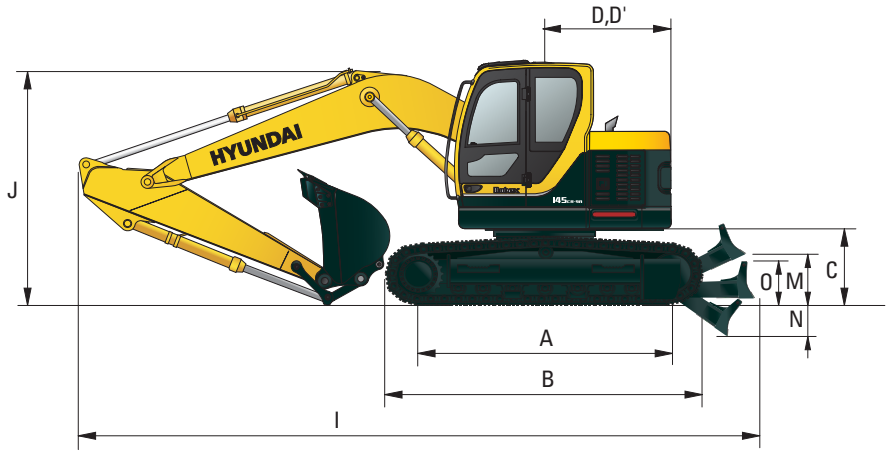
mm (ft·in)

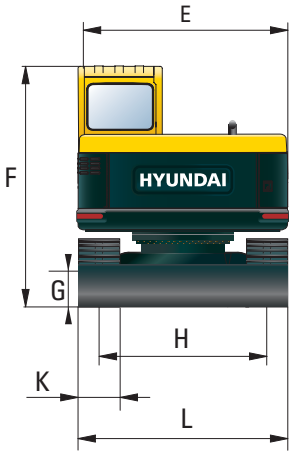



| | | | | | |
|---|---|---|---|---|---|
| | Boom length | 4,600(15' 1") | | | |
| | Arm length | 1,900 (6' 3") | 2,100 (6' 11") | 2,500 (8' 2") | 3,000 (9' 10") |
| **A** | Max. digging reach | 7,730 (25' 4") | 7,900 (25' 11") | 8,310 (27' 3") | 8,770 (28' 9") |
| **A'** | Max. digging reach on ground | 7,580 (24' 10") | 7,750 (25' 0") | 8,170 (26' 10") | 8,630 (28' 4") |
| **B** | Max. digging depth | 4,890 (16' 1") | 5,100 (16' 9") | 5,500 (18' 1") | 5,990 (19' 8") |
| **B'** | Max. digging depth (8' level) | 4,640 (15' 3") | 4,870 (16' 0") | 5,290 (17' 4") | 5,810 (19' 1") |
| **C** | Max. vertical wall digging depth | 4,400 (14' 5") | 4,600 (15' 1") | 5,000 (16' 5") | 5,400 (17' 9") |
| **D** | Max. digging height | 8,840 (29' 0") | 8,970 (29' 5") | 9,350 (30' 8") | 9,730 (31' 11") |
| **E** | Max. dumping height | 6,350 (20' 10") | 6,470 (21' 3") | 6,850 (22' 6") | 7,230 (23' 9") |
| **F** | Min. swing radius | 1,860 (6' 1") | 2,030 (6' 8") | 1,980 (6' 6") | 2,260 (7' 5") |

# Dimensions & Working Range

## R145CR-9A (DOZER TYPE) DIMENSIONS




mm (ft-in)

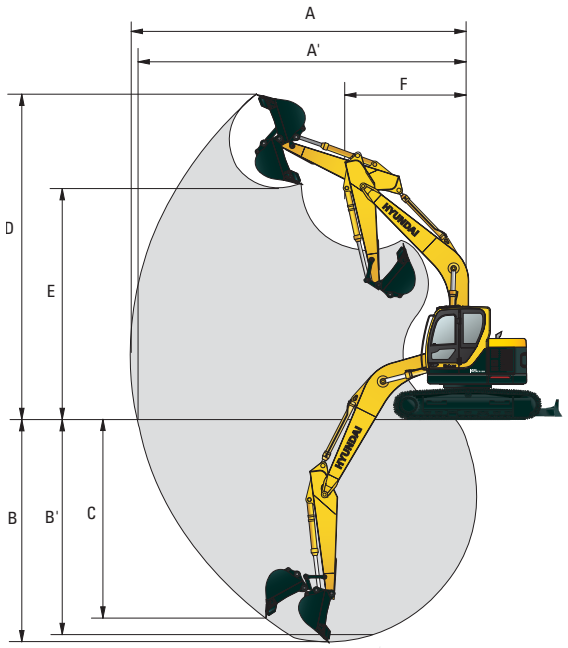
| | | |
|---|---|---|
| **A** | Tumbler distance | 2,910 (9′ 7″) |
| **B** | Overall length of crawler | 3,640 (11′ 11″) |
| **C** | Ground clearance of counterweight | 930 (3′ 1″) |
| **D** | Tail swing radius | 1,480 (4′ 10″) |
| **D′** | Rear-end length | 1,480 (4′ 10″) |
| **E** | Overall width of upperstructure | 2,500 (8′ 2″) |
| **F** | Overall height of cab | 2,900 (9′ 6″) |
| **G** | Min. ground clearance | 440 (1′ 5″) |
| **H** | Track gauge | 2,000 (6′ 7″) |
| **M** | Ground clearance of blade up | 420 (1′ 8″) |
| **N** | Depth of blade down | 430 (1′ 6″) |
| **O** | Height of blade | 575 (1′ 8″) |

| | | | | |
|---|---|---|---|---|
| | Boom length | 4,600(15′ 1″) | | |
| | Arm length | 1,900 (6′ 3″) | 2,100 (6′ 11″) | 2,500 (8′ 2″) | 3,000 (9′ 10″) |
| **I** | Overall length | 7,840 (25′ 9″) | 7,860 (25′ 9″) | 7,820 (25′ 8″) | 7,760 (25′ 6″) |
| **J** | Overall height of boom | 2,630 (8′ 8″) | 2,710 (8′ 11″) | 2,860 (9′ 5″) | 3,210 (10′ 6″) |

| | | | | |
|---|---|---|---|---|
| **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″) |

## R145CR-9A (DOZER TYPE) WORKING RANGE

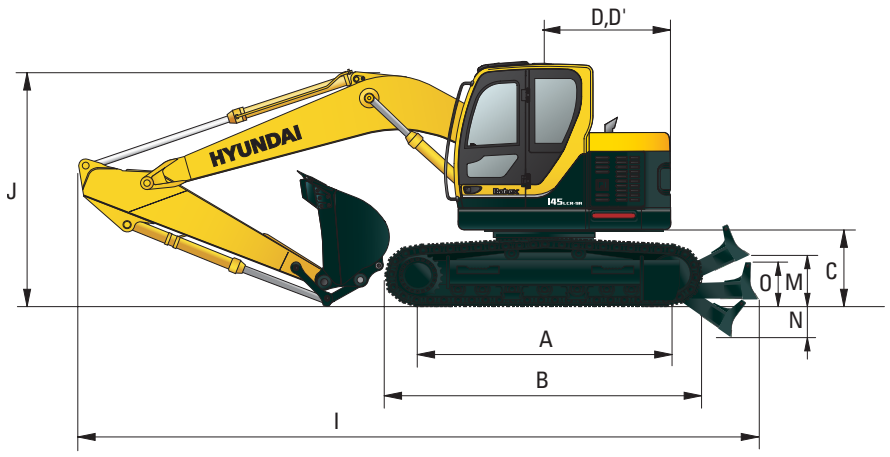
mm (ft-in)

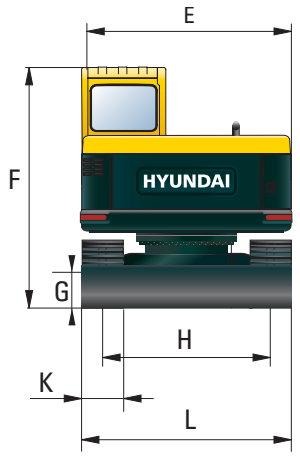



| | | | | | |
|---|---|---|---|---|---|
| | Boom length | 4,600(15′ 1″) | | | |
| | Arm length | 1,900 (6′ 3″) | 2,100 (6′ 11″) | 2,500 (8′ 2″) | 3,000 (9′ 10″) |
| **A** | Max. digging reach | 7,730 (25′ 4″) | 7,900 (25′ 11″) | 8,310 (27′ 3″) | 8,770 (28′ 9″) |
| **A′** | Max. digging reach on ground | 7,580 (24′ 10″) | 7,750 (25′ 0″) | 8,170 (26′ 10″) | 8,630 (28′ 4″) |
| **B** | Max. digging depth | 4,890 (16′ 1″) | 5,100 (16′ 9″) | 5,500 (18′ 1″) | 5,990 (19′ 8″) |
| **B′** | Max. digging depth (8' level) | 4,640 (15′ 3″) | 4,870 (16′ 0″) | 5,290 (17′ 4″) | 5,810 (19′ 1″) |
| **C** | Max. vertical wall digging depth | 4,400 (14′ 5″) | 4,600 (15′ 1″) | 5,000 (16′ 5″) | 5,400 (17′ 9″) |
| **D** | Max. digging height | 8,840 (29′ 0″) | 8,970 (29′ 5″) | 9,350 (30′ 8″) | 9,730 (31′ 11″) |
| **E** | Max. dumping height | 6,350 (20′ 10″) | 6,470 (21′ 3″) | 6,850 (22′ 6″) | 7,230 (23′ 9″) |
| **F** | Min. swing radius | 1,860 (6′ 1″) | 2,030 (6′ 8″) | 1,980 (6′ 6″) | 2,260 (7′ 5″) |

# Dimensions & Working Range

## R145LCR-9A (DOZER TYPE) DIMENSIONS




mm (ft·in)

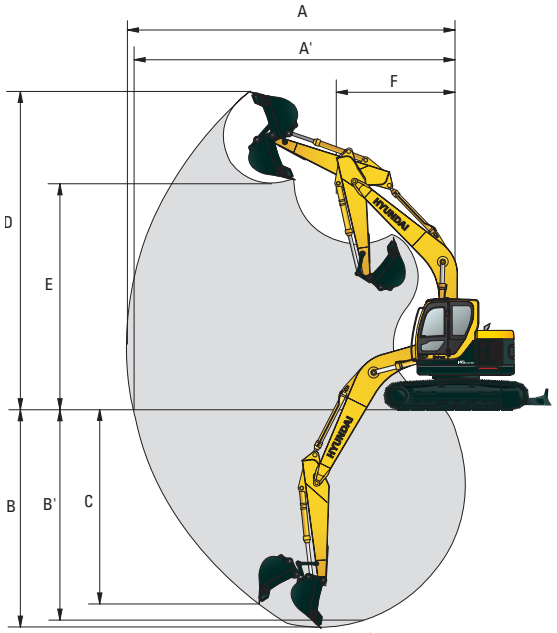
| | | |
|---|---|---|
| **A** | Tumbler distance | 3,090 (10' 2") |
| **B** | Overall length of crawler | 3,820 (12' 6") |
| **C** | Ground clearance of counterweight | 930 (3′ 1″) |
| **D** | Tail swing radius | 1,480 (4′ 10″) |
| **D′** | Rear-end length | 1,480 (4′ 10″) |
| **E** | Overall width of upperstructure | 2,500 (8′ 2″) |
| **F** | Overall height of cab | 2,900 (9′ 6″) |
| **G** | Min. ground clearance | 440 (1′ 5″) |
| **H** | Track gauge | 2,000 (6′ 7″) |
| **M** | Ground clearance of blade up | 420 (1′ 8″) |
| **N** | Depth of blade down | 430 (1′ 6″) |
| **O** | Height of blade | 575 (1′ 8″) |

| | | | | |
|---|---|---|---|---|
| | Boom length | 4,600(15′ 1″) | | |
| | Arm length | 1,900 (6′ 3″) | 2,100 (6′ 11″) | 2,500 (8′ 2″) | 3,000 (9′ 10″) |
| **I** | Overall length | 7,840 (25′ 9″) | 7,860 (25′ 9″) | 7,820 (25′ 8″) | 7,760 (25′ 6″) |
| **J** | Overall height of boom | 2,630 (8′ 8″) | 2,710 (8′ 11″) | 2,860 (9′ 5″) | 3,210 (10′ 6″) |

| | | | | |
|---|---|---|---|---|
| **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″) |

## R145LCR-9A (DOZER TYPE) WORKING RANGE

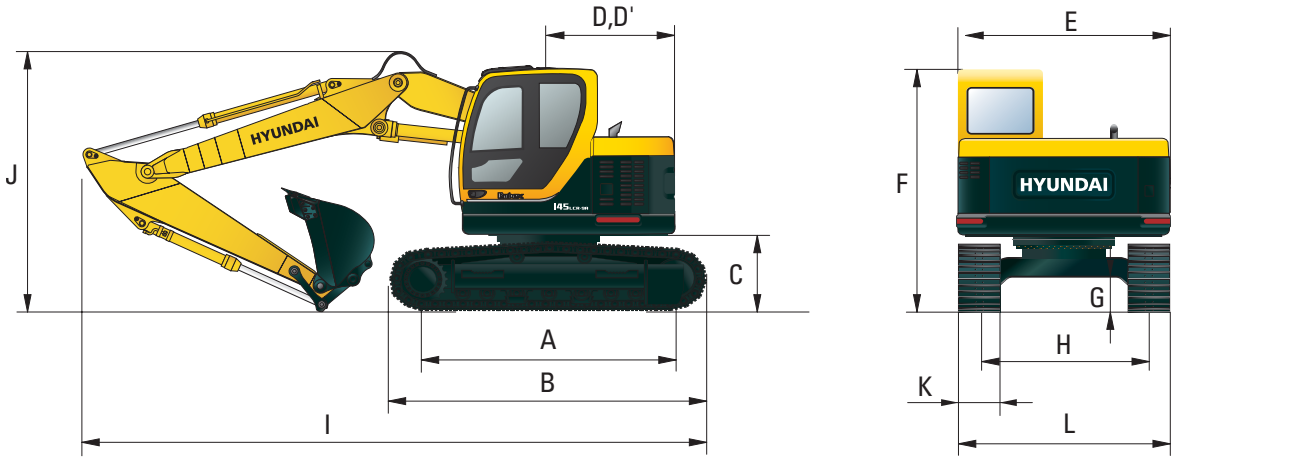
mm (ft·in)




| | | | | | |
|---|---|---|---|---|---|
| | Boom length | 4,600(15′ 1″) | | | |
| | Arm length | 1,900 (6′ 3″) | 2,100 (6′ 11″) | 2,500 (8′ 2″) | 3,000 (9′ 10″) |
| **A** | Max. digging reach | 7,730 (25′ 4″) | 7,900 (25′ 11″) | 8,310 (27′ 3″) | 8,770 (28′ 9″) |
| **A′** | Max. digging reach on ground | 7,580 (24′ 10″) | 7,750 (25′ 0″) | 8,170 (26′ 10″) | 8,630 (28′ 4″) |
| **B** | Max. digging depth | 4,890 (16′ 1″) | 5,100 (16′ 9″) | 5,500 (18′ 1″) | 5,990 (19′ 8″) |
| **B′** | Max. digging depth (8' level) | 4,640 (15′ 3″) | 4,870 (16′ 0″) | 5,290 (17′ 4″) | 5,810 (19′ 1″) |
| **C** | Max. vertical wall digging depth | 4,400 (14′ 5″) | 4,600 (15′ 1″) | 5,000 (16′ 5″) | 5,400 (17′ 9″) |
| **D** | Max. digging height | 8,840 (29′ 0″) | 8,970 (29′ 5″) | 9,350 (30′ 8″) | 9,730 (31′ 11″) |
| **E** | Max. dumping height | 6,350 (20′ 10″) | 6,470 (21′ 3″) | 6,850 (22′ 6″) | 7,230 (23′ 9″) |
| **F** | Min. swing radius | 1,860 (6′ 1″) | 2,030 (6′ 8″) | 1,980 (6′ 6″) | 2,260 (7′ 5″) |

# Dimensions & Working Range

## R14LCR-9A ADJUSTABLE BOOM DIMENSIONS




mm (ft-in)

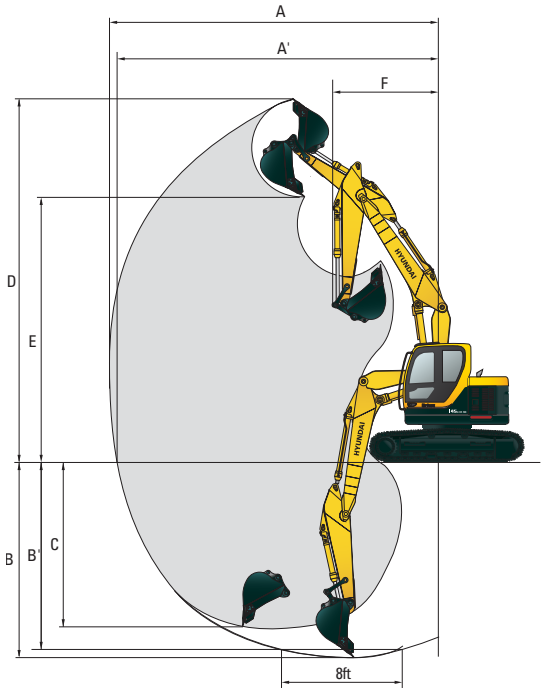
| | | |
|---|---|---|
| **A** | Tumbler distance | 2,910 (9' 7") |
| **B** | Overall length of crawler | 3,640 (11' 11") |
| **C** | Ground clearance of counterweight | 930 (3′ 1″) |
| **D** | Tail swing radius | 1,480 (4′ 10″) |
| **D'** | Rear-end length | 1,480 (4′ 10″) |
| **E** | Overall width of upperstructure | 2,500 (8′ 2″) |
| **F** | Overall height of cab | 2,900 (9′ 6″) |
| **G** | Min. ground clearance | 440 (1′ 5″) |
| **H** | Track gauge | 2,000 (6′ 7″) |

| | | | |
|---|---|---|---|
| | Boom length | 4,900(16′ 1″) | |
| | Arm length | 2,100 (6′ 11″) | 2,500 (8′ 2″) |
| **I** | Overall length | 7,720 (25′ 4″) | 7,690 (25′ 3″) |
| **J** | Overall height of boom | 2,870 (9′ 5″) | 2,900 (9′ 6″) |

| | | | | |
|---|---|---|---|---|
| **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″) |

## R14LCR-9A ADJUSTABLE BOOM WORKING RANGE

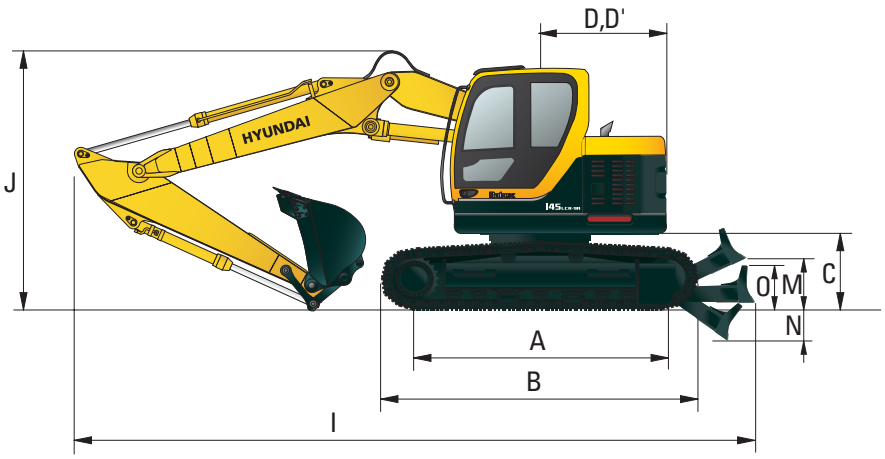
mm (ft-in)

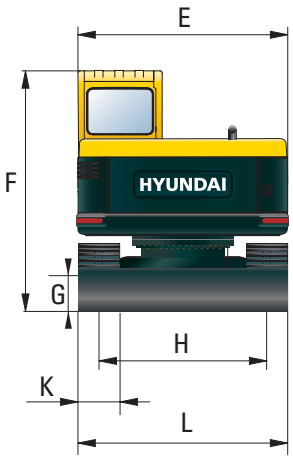



| | | | |
|---|---|---|---|
| | Boom length | 4,900(16′ 1″) | |
| | Arm length | 2,100 (6′ 11″) | 2,500 (8′ 2″) |
| **A** | Max. digging reach | 8,270 (27′ 2″) | 8,675 (28′ 6″) |
| **A'** | Max. digging reach on ground | 8,130 (26′ 8″) | 8,540 (28′ 0″) |
| **B** | Max. digging depth | 5,175 (16′ 12″) | 5,580 (18′ 4″) |
| **B'** | Max. digging depth (8' level) | 5,060 (16′ 7″) | 5,470 (17′ 11″) |
| **C** | Max. vertical wall digging depth | 4,555 (14′ 11″) | 5,015 (16′ 5″) |
| **D** | Max. digging height | 9,340 (30′ 8″) | 9,715 (31′ 10″) |
| **E** | Max. dumping height | 6,850 (22′ 6″) | 7,230 (23′ 9″) |
| **F** | Min. swing radius | 2,300 (7′ 7″) | 2,250 (7′ 5″) |

# Dimensions & Working Range

## R145LCR-9A ADJUSTABLE BOOM (DOZER TYPE) DIMENSIONS




mm (ft·in)

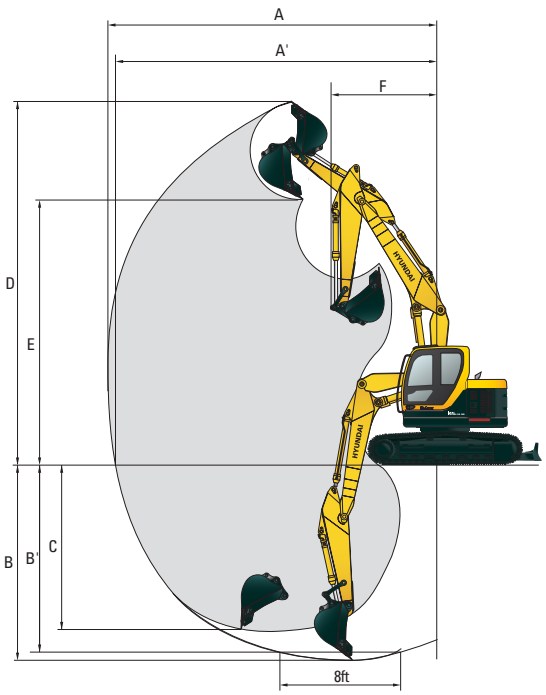
| | | |
|---|---|---|
| **A** | Tumbler distance | 2,910 (9′ 7″) |
| **B** | Overall length of crawler | 3,640 (11′ 11″) |
| **C** | Ground clearance of counterweight | 930 (3′ 1″) |
| **D** | Tail swing radius | 1,480 (4′ 10″) |
| **D′** | Rear-end length | 1,480 (4′ 10″) |
| **E** | Overall width of upperstructure | 2,500 (8′ 2″) |
| **F** | Overall height of cab | 2,900 (9′ 6″) |
| **G** | Min. ground clearance | 440 (1′ 5″) |
| **H** | Track gauge | 2,000 (6′ 7″) |
| **M** | Ground clearance of blade up | 420 (1′ 8″) |
| **N** | Depth of blade down | 430 (1′ 6″) |
| **O** | Height of blade | 575 (1′ 8″) |

| | | | |
|---|---|---|---|
| | Boom length | 4,900(16′ 1″) | |
| | Arm length | 2,100 (6′ 11″) | 2,500 (8′ 2″) |
| **I** | Overall length | 8,180 (26′ 10″) | 8,150 (26′ 9″) |
| **J** | Overall height of boom | 2,870 (9′ 5″) | 2,900 (9′ 6″) |

| | | | | |
|---|---|---|---|---|
| **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″) |

## R145LCR-9A ADJUSTABLE BOOM WORKING RANGE

mm (ft·in)




| | | | |
|---|---|---|---|
| | Boom length | 4,900(16′ 1″) | |
| | Arm length | 2,100 (6′ 11″) | 2,500 (8′ 2″) |
| **A** | Max. digging reach | 8,270 (27′ 2″) | 8,675 (28′ 6″) |
| **A′** | Max. digging reach on ground | 8,130 (26′ 8″) | 8,540 (28′ 0″) |
| **B** | Max. digging depth | 5,175 (16′ 12″) | 5,580 (18′ 4″) |
| **B′** | Max. digging depth (8' level) | 5,060 (16′ 7″) | 5,470 (17′ 11″) |
| **C** | Max. vertical wall digging depth | 4,555 (14′ 11″) | 5,015 (16′ 5″) |
| **D** | Max. digging height | 9,340 (30′ 8″) | 9,715 (31′ 10″) |
| **E** | Max. dumping height | 6,850 (22′ 6″) | 7,230 (23′ 9″) |
| **F** | Min. swing radius | 2,300 (7′ 7″) | 2,250 (7′ 5″) |

# Lifting Capacity

## R145CR-9A

Rating over-front  Rating over-side or 360 degree

Boom : 4.6 m (15′ 1″) / Arm : 1.9 m (6′ 3″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *3270 | *3270 | | | 3360 | 2130 | 5.75 |
| (20 ft) | lb | | | | | *7210 | *7210 | | | 7410 | 4700 | (18.9) |
| 4.5 m | kg | | | *4960 | *4960 | *4310 | 3250 | | | 2500 | 1550 | 6.73 |
| (15 ft) | lb | | | *10930 | *10930 | *9500 | 7170 | | | 5510 | 3420 | (22.1) |
| 3.0m | kg | | | *7230 | 5970 | 4900 | 3050 | 2980 | 1850 | 2170 | 1310 | 7.22 |
| (10 ft) | lb | | | *15940 | 13160 | 10800 | 6720 | 6570 | 4080 | 4780 | 2890 | (23.7) |
| 1.5 m | kg | | | *9120 | 5220 | 4620 | 2800 | 2880 | 1750 | 2070 | 1230 | 7.32 |
| (5 ft) | lb | | | *20110 | 11510 | 10190 | 6170 | 6350 | 3860 | 4560 | 2710 | (24.0) |
| Ground | kg | | | *8610 | 4970 | 4430 | 2640 | 2800 | 1680 | 2170 | 1290 | 7.06 |
| Line | lb | | | *18980 | 10960 | 9770 | 5820 | 6170 | 3700 | 4780 | 2840 | (23.2) |
| -1.5 m | kg | *6830 | *6830 | *8140 | 4970 | 4370 | 2580 | | | 2560 | 1540 | 6.40 |
| (-5 ft) | lb | *15060 | *15060 | *17950 | 10960 | 9630 | 5690 | | | 5640 | 3400 | (21.0) |
| -3.0 m | kg | | | *6010 | 5100 | *4100 | 2650 | | | *2250 | *2250 | 5.12 |
| (-10 ft) | lb | | | *13250 | 11240 | *9040 | 5840 | | | *4960 | *4960 | (16.8) |

Boom : 4.6 m (15′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *3440 | 3330 | | | 3160 | 2000 | 5.98 |
| (20 ft) | lb | | | | | *7580 | 7340 | | | 6970 | 4410 | (19.6) |
| 4.5 m | kg | | | *4390 | *4390 | *4140 | 3270 | *2560 | 1910 | 2390 | 1470 | 6.92 |
| (15 ft) | lb | | | *9680 | *9680 | *9130 | 7210 | *5640 | 4210 | 5270 | 3240 | (22.7) |
| 3.0m | kg | | | *6870 | 6040 | *4840 | 3060 | 2990 | 1850 | 2080 | 1240 | 7.39 |
| (10 ft) | lb | | | *15150 | 13320 | *10670 | 6750 | 6590 | 4080 | 4590 | 2730 | (24.2) |
| 1.5 m | kg | | | *9010 | 5260 | 4620 | 2800 | 2880 | 1750 | 1980 | 1170 | 7.49 |
| (5 ft) | lb | | | *19860 | 11600 | 10190 | 6170 | 6350 | 3860 | 4370 | 2580 | (24.6) |
| Ground | kg | | | *8870 | 4940 | 4410 | 2610 | 2780 | 1660 | 2070 | 1220 | 7.24 |
| Line | lb | | | *19550 | 10890 | 9720 | 5750 | 6130 | 3660 | 4560 | 2690 | (23.8) |
| -1.5 m | kg | *6560 | *6560 | *8340 | 4900 | 4330 | 2550 | 2750 | 1630 | 2410 | 1440 | 6.60 |
| (-5 ft) | lb | *14460 | *14460 | *18390 | 10800 | 9550 | 5620 | 6060 | 3590 | 5310 | 3170 | (21.7) |
| -3.0 m | kg | *9060 | *9060 | *6360 | 5020 | *4350 | 2600 | | | *2390 | 2070 | 5.38 |
| (-10 ft) | lb | *19970 | *19970 | *14020 | 11070 | *9590 | 5730 | | | *5270 | 4560 | (17.7) |

Boom : 4.6 m (15′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *2960 | *2960 | | | 2710 | 1700 | 6.50 |
| (20 ft) | lb | | | | | *6530 | *6530 | | | 5970 | 3750 | (21.3) |
| 4.5 m | kg | | | | | *3460 | 3310 | *2670 | 1930 | 2120 | 1280 | 7.37 |
| (15 ft) | lb | | | | | *7630 | 7300 | *5890 | 4250 | 4670 | 2820 | (24.2) |
| 3.0m | kg | | | *6090 | *6090 | *4480 | 3090 | 2990 | 1850 | 1870 | 1090 | 7.81 |
| (10 ft) | lb | | | *13430 | *13430 | *9880 | 6810 | 6590 | 4080 | 4120 | 2400 | (25.6) |
| 1.5 m | kg | | | *8480 | 5380 | 4640 | 2810 | 2870 | 1730 | 1780 | 1030 | 7.90 |
| (5 ft) | lb | | | *18700 | 11860 | 10230 | 6190 | 6330 | 3810 | 3920 | 2270 | (25.9) |
| Ground | kg | | | *9050 | 4920 | 4390 | 2590 | 2750 | 1630 | 1850 | 1060 | 7.67 |
| Line | lb | | | *19950 | 10850 | 9680 | 5710 | 6060 | 3590 | 4080 | 2340 | (25.2) |
| -1.5 m | kg | *5850 | *5850 | *8700 | 4820 | 4280 | 2490 | 2700 | 1580 | 2120 | 1240 | 7.07 |
| (-5 ft) | lb | *12900 | *12900 | *19180 | 10630 | 9440 | 5490 | 5950 | 3480 | 4670 | 2730 | (23.2) |
| -3.0 m | kg | *8930 | *8930 | *7030 | 4900 | 4300 | 2510 | | | *2400 | 1700 | 5.97 |
| (-10 ft) | lb | *19690 | *19690 | *15500 | 10800 | 9480 | 5530 | | | *5290 | 3750 | (19.6) |
| -4.5 m | kg | | | *3750 | *3750 | | | | | | | |
| (-15 ft) | lb | | | *8270 | *8270 | | | | | | | |

Boom : 4.6 m (15′ 1″) / Arm : 3.0 m (9′ 10″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *2560 | *2560 | *1730 | *1730 | | | 2350 | 1450 | 7.07 |
| (20 ft) | lb | | | | | *5640 | *5640 | *3810 | *3810 | | | 5180 | 3200 | (23.2) |
| 4.5 m | kg | | | | | *2760 | *2760 | *2550 | 1980 | | | 1890 | 1120 | 7.86 |
| (15 ft) | lb | | | | | *6080 | *6080 | *5620 | 4370 | | | 4170 | 2470 | (25.8) |
| 3.0m | kg | | | *3690 | *3690 | *3690 | 3170 | 3030 | 1880 | *1430 | 1180 | 1680 | 960 | 8.27 |
| (10 ft) | lb | | | *8140 | *8140 | *8140 | 6990 | 6680 | 4140 | *3150 | 2600 | 3700 | 2120 | (27.1) |
| 1.5 m | kg | | | *7740 | 5620 | 4720 | 2880 | 2890 | 1750 | 1950 | 1130 | 1610 | 910 | 8.36 |
| (5 ft) | lb | | | *17060 | 12390 | 10410 | 6350 | 6370 | 3860 | 4300 | 2490 | 3550 | 2010 | (27.4) |
| Ground | kg | | | *9180 | 5020 | 4440 | 2630 | 2760 | 1630 | *1830 | 1080 | 1660 | 930 | 8.14 |
| Line | lb | | | *20240 | 11070 | 9790 | 5800 | 6080 | 3590 | *4030 | 2380 | 3660 | 2050 | (26.7) |
| -1.5 m | kg | *5380 | *5380 | *8930 | 4820 | 4280 | 2490 | 2680 | 1560 | | | 1860 | 1060 | 7.59 |
| (-5 ft) | lb | *11860 | *11860 | *19690 | 10630 | 9440 | 5490 | 5910 | 3440 | | | 4100 | 2340 | (24.9) |
| -3.0 m | kg | *7860 | *7860 | *7790 | 4830 | 4250 | 2460 | 2680 | 1560 | | | 2380 | 1400 | 6.59 |
| (-10 ft) | lb | *17330 | *17330 | *17170 | 10650 | 9370 | 5420 | 5910 | 3440 | | | 5250 | 3090 | (21.6) |
| -4.5 m | kg | *8050 | *8050 | *5160 | 5020 | *3260 | 2580 | | | | | | | |
| (-15 ft) | lb | *17750 | *17750 | *11380 | 11070 | *7190 | 5690 | | | | | | | |

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

# Lifting Capacity

## R145LCR-9A

Rating over-front  Rating over-side or 360 degree

Boom : 4.6 m (15′ 1″) / Arm : 1.9 m (6′ 3″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *3270 | *3270 | | | 3710 | 2160 | 5.75 |
| (20 ft) | lb | | | | | *7210 | *7210 | | | 8180 | 4760 | (18.9) |
| 4.5 m | kg | | | *4960 | *4960 | *4310 | 3290 | | | 2770 | 1570 | 6.73 |
| (15 ft) | lb | | | *10930 | *10930 | *9500 | 7250 | | | 6110 | 3460 | (22.1) |
| 3.0m | kg | | | *7230 | 6040 | *5000 | 3090 | 3310 | 1870 | 2410 | 1330 | 7.22 |
| (10 ft) | lb | | | *15940 | 13320 | *11020 | 6810 | 7300 | 4120 | 5310 | 2930 | (23.7) |
| 1.5 m | kg | | | *9120 | 5290 | 5160 | 2840 | 3200 | 1780 | 2310 | 1250 | 7.32 |
| (5 ft) | lb | | | *20110 | 11660 | 11380 | 6260 | 7050 | 3920 | 5090 | 2760 | (24.0) |
| Ground | kg | | | *8610 | 5040 | 4960 | 2670 | 3120 | 1700 | 2420 | 1310 | 7.06 |
| Line | lb | | | *18980 | 11110 | 10930 | 5890 | 6880 | 3750 | 5340 | 2890 | (23.2) |
| -1.5 m | kg | *6830 | *6830 | *8140 | 5030 | 4900 | 2620 | | | 2850 | 1560 | 6.40 |
| (-5 ft) | lb | *15060 | *15060 | *17950 | 11090 | 10800 | 5780 | | | 6280 | 3440 | (21.0) |
| -3.0 m | kg | | | *6010 | 5170 | *4100 | 2690 | | | *2250 | *2250 | 5.12 |
| (-10 ft) | lb | | | *13250 | 11400 | *9040 | 5930 | | | *4960 | *4960 | (16.8) |

Boom : 4.6 m (15′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *3440 | 3370 | | | 3490 | 2030 | 5.98 |
| (20 ft) | lb | | | | | *7580 | 7430 | | | 7690 | 4480 | (19.6) |
| 4.5 m | kg | | | *4390 | *4390 | *4140 | 3310 | *2560 | 1940 | 2650 | 1490 | 6.92 |
| (15 ft) | lb | | | *9680 | *9680 | *9130 | 7300 | *5640 | 4280 | 5840 | 3280 | (22.7) |
| 3.0m | kg | | | *6870 | 6110 | *4840 | 3100 | 3310 | 1880 | 2310 | 1260 | 7.39 |
| (10 ft) | lb | | | *15150 | 13470 | *10670 | 6830 | 7300 | 4140 | 5090 | 2780 | (24.2) |
| 1.5 m | kg | | | *9010 | 5330 | 5160 | 2840 | 3200 | 1770 | 2210 | 1190 | 7.49 |
| (5 ft) | lb | | | *19860 | 11750 | 11380 | 6260 | 7050 | 3900 | 4870 | 2620 | (24.6) |
| Ground | kg | | | *8870 | 5000 | 4940 | 2650 | 3100 | 1690 | 2310 | 1240 | 7.24 |
| Line | lb | | | *19550 | 11020 | 10890 | 5840 | 6830 | 3730 | 5090 | 2730 | (23.8) |
| -1.5 m | kg | *6560 | *6560 | *8340 | 4970 | 4860 | 2580 | 3070 | 1660 | 2690 | 1460 | 6.60 |
| (-5 ft) | lb | *14460 | *14460 | *18390 | 10960 | 10710 | 5690 | 6770 | 3660 | 5930 | 3220 | (21.7) |
| -3.0 m | kg | *9060 | *9060 | *6360 | 5090 | *4350 | 2630 | | | *2390 | 2100 | 5.38 |
| (-10 ft) | lb | *19970 | *19970 | *14020 | 11220 | *9590 | 5800 | | | *5270 | 4630 | (17.7) |

Boom : 4.6 m (15′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *2960 | *2960 | | | *2910 | 1720 | 6.50 |
| (20 ft) | lb | | | | | *6530 | *6530 | | | *6420 | 3790 | (21.3) |
| 4.5 m | kg | | | | | *3460 | 3350 | *2670 | 1960 | 2360 | 1300 | 7.37 |
| (15 ft) | lb | | | | | *7630 | 7390 | *5890 | 4320 | 5200 | 2870 | (24.2) |
| 3.0m | kg | | | *6090 | *6090 | *4480 | 3130 | 3320 | 1880 | 2080 | 1110 | 7.81 |
| (10 ft) | lb | | | *13430 | *13430 | *9880 | 6900 | 7320 | 4140 | 4590 | 2450 | (25.6) |
| 1.5 m | kg | | | *8480 | 5450 | 5180 | 2850 | 3190 | 1760 | 2000 | 1050 | 7.90 |
| (5 ft) | lb | | | *18700 | 12020 | 11420 | 6280 | 7030 | 3880 | 4410 | 2310 | (25.9) |
| Ground | kg | | | *9170 | 4990 | 4930 | 2630 | 3070 | 1650 | 2070 | 1080 | 7.67 |
| Line | lb | | | *20220 | 11000 | 10870 | 5800 | 6770 | 3640 | 4560 | 2380 | (25.2) |
| -1.5 m | kg | *5850 | *5850 | *8700 | 4890 | 4810 | 2530 | 3020 | 1600 | 2370 | 1260 | 7.07 |
| (-5 ft) | lb | *12900 | *12900 | *19180 | 10780 | 10600 | 5580 | 6660 | 3530 | 5220 | 2780 | (23.2) |
| -3.0 m | kg | *8930 | *8930 | *7030 | 4970 | *4770 | 2550 | | | *2400 | 1730 | 5.97 |
| (-10 ft) | lb | *19690 | *19690 | *15500 | 10960 | *10520 | 5620 | | | *5290 | 3810 | (19.6) |
| -4.5 m | kg | | | *3750 | *3750 | | | | | | | |
| (-15 ft) | lb | | | *8270 | *8270 | | | | | | | |

Boom : 4.6 m (15′ 1″) / Arm : 3.0 m (9′ 10″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *2560 | *2560 | *1730 | *1730 | | | *2600 | 1470 | 7.07 |
| (20 ft) | lb | | | | | *5640 | *5640 | *3810 | *3810 | | | *5730 | 3240 | (23.2) |
| 4.5 m | kg | | | | | *2760 | *2760 | *2550 | 2000 | | | 2100 | 1140 | 7.86 |
| (15 ft) | lb | | | | | *6080 | *6080 | *5620 | 4410 | | | 4630 | 2510 | (25.8) |
| 3.0m | kg | | | *3690 | *3690 | *3690 | 3210 | *3210 | 1910 | *1430 | 1200 | 1880 | 980 | 8.27 |
| (10 ft) | lb | | | *8140 | *8140 | *8140 | 7080 | *7080 | 4210 | *3150 | 2650 | 4140 | 2160 | (27.1) |
| 1.5 m | kg | | | *7740 | 5690 | *5030 | 2920 | 3220 | 1780 | *1990 | 1150 | 1800 | 920 | 8.36 |
| (5 ft) | lb | | | *17060 | 12540 | *11090 | 6440 | 7100 | 3920 | *4390 | 2540 | 3970 | 2030 | (27.4) |
| Ground | kg | | | *9190 | 5090 | 4970 | 2670 | 3080 | 1660 | *1830 | 1100 | 1860 | 950 | 8.14 |
| Line | lb | | | *20260 | 11220 | 10960 | 5890 | 6790 | 3660 | *4030 | 2430 | 4100 | 2090 | (26.7) |
| -1.5 m | kg | *5380 | *5380 | *9060 | 4890 | 4810 | 2530 | 3000 | 1590 | | | 2090 | 1080 | 7.59 |
| (-5 ft) | lb | *11860 | *11860 | *19970 | 10780 | 10600 | 5580 | 6610 | 3510 | | | 4610 | 2380 | (24.9) |
| -3.0 m | kg | *7860 | *7860 | *7790 | 4900 | 4780 | 2500 | 3000 | 1590 | | | *2460 | 1420 | 6.59 |
| (-10 ft) | lb | *17330 | *17330 | *17170 | 10800 | 10540 | 5510 | 6610 | 3510 | | | *5420 | 3130 | (21.6) |
| -4.5 m | kg | *8050 | *8050 | *5160 | 5080 | *3260 | 2620 | | | | | | | |
| (-15 ft) | lb | *17750 | *17750 | *11380 | 11200 | *7190 | 5780 | | | | | | | |

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

# Lifting Capacity

## R145CR-9A (DOZER TYPE)

Rating over-front  Rating over-side or 360 degree

Boom : 4.6 m (15′ 1″) / Arm : 1.9 m (6′ 3″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *3270 | *3270 | | | 3660 | 2270 | 5.75 |
| (20 ft) | lb | | | | | *7210 | *7210 | | | 8070 | 5000 | (18.9) |
| 4.5 m | kg | | | *4960 | *4960 | *4310 | 3440 | | | 2750 | 1660 | 6.73 |
| (15 ft) | lb | | | *10930 | *10930 | *9500 | 7580 | | | 6060 | 3660 | (22.1) |
| 3.0m | kg | | | *7230 | 6310 | *5000 | 3240 | 3260 | 1980 | 2390 | 1410 | 7.22 |
| (10 ft) | lb | | | *15940 | 13910 | *11020 | 7140 | 7190 | 4370 | 5270 | 3110 | (23.7) |
| 1.5 m | kg | | | *9120 | 5560 | 5040 | 2990 | 3160 | 1890 | 2290 | 1330 | 7.32 |
| (5 ft) | lb | | | *20110 | 12260 | 11110 | 6590 | 6970 | 4170 | 5050 | 2930 | (24.0) |
| Ground | kg | | | *8610 | 5300 | 4850 | 2820 | 3080 | 1810 | 2400 | 1400 | 7.06 |
| Line | lb | | | *18980 | 11680 | 10690 | 6220 | 6790 | 3990 | 5290 | 3090 | (23.2) |
| -1.5 m | kg | *6830 | *6830 | *8140 | 5300 | 4790 | 2770 | | | 2820 | 1660 | 6.40 |
| (-5 ft) | lb | *15060 | *15060 | *17950 | 11680 | 10560 | 6110 | | | 6220 | 3660 | (21.0) |
| -3.0 m | kg | | | *6010 | 5440 | *4100 | 2840 | | | *2250 | *2250 | 5.12 |
| (-10 ft) | lb | | | *13250 | 11990 | *9040 | 6260 | | | *4960 | *4960 | (16.8) |

Boom : 4.6 m (15′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *3440 | *3440 | | | 3440 | 2130 | 5.98 |
| (20 ft) | lb | | | | | *7580 | *7580 | | | 7580 | 4700 | (19.6) |
| 4.5 m | kg | | | *4390 | *4390 | *4140 | 3460 | *2560 | 2040 | 2620 | 1580 | 6.92 |
| (15 ft) | lb | | | *9680 | *9680 | *9130 | 7630 | *5640 | 4500 | 5780 | 3480 | (22.7) |
| 3.0m | kg | | | *6870 | 6370 | *4840 | 3250 | 3270 | 1980 | 2290 | 1350 | 7.39 |
| (10 ft) | lb | | | *15150 | 14040 | *10670 | 7170 | 7210 | 4370 | 5050 | 2980 | (24.2) |
| 1.5 m | kg | | | *9010 | 5600 | 5040 | 2990 | 3160 | 1880 | 2190 | 1270 | 7.49 |
| (5 ft) | lb | | | *19860 | 12350 | 11110 | 6590 | 6970 | 4140 | 4830 | 2800 | (24.6) |
| Ground | kg | | | *8870 | 5270 | 4830 | 2800 | 3060 | 1790 | 2290 | 1320 | 7.24 |
| Line | lb | | | *19550 | 11620 | 10650 | 6170 | 6750 | 3950 | 5050 | 2910 | (23.8) |
| -1.5 m | kg | *6560 | *6560 | *8340 | 5240 | 4750 | 2740 | 3030 | 1760 | 2660 | 1550 | 6.60 |
| (-5 ft) | lb | *14460 | *14460 | *18390 | 11550 | 10470 | 6040 | 6680 | 3880 | 5860 | 3420 | (21.7) |
| -3.0 m | kg | *9060 | *9060 | *6360 | 5360 | *4350 | 2790 | | | *2390 | 2220 | 5.38 |
| (-10 ft) | lb | *19970 | *19970 | *14020 | 11820 | *9590 | 6150 | | | *5270 | 4890 | (17.7) |

Boom : 4.6 m (15′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *2960 | *2960 | | | *2910 | 1820 | 6.50 |
| (20 ft) | lb | | | | | *6530 | *6530 | | | *6420 | 4010 | (21.3) |
| 4.5 m | kg | | | | | *3460 | *3460 | *2670 | 2060 | 2340 | 1380 | 7.37 |
| (15 ft) | lb | | | | | *7630 | *7630 | *5890 | 4540 | 5160 | 3040 | (24.2) |
| 3.0m | kg | | | *6090 | *6090 | *4480 | 3280 | 3270 | 1980 | 2070 | 1190 | 7.81 |
| (10 ft) | lb | | | *13430 | *13430 | *9880 | 7230 | 7210 | 4370 | 4560 | 2620 | (25.6) |
| 1.5 m | kg | | | *8480 | 5720 | 5060 | 3000 | 3150 | 1860 | 1980 | 1120 | 7.90 |
| (5 ft) | lb | | | *18700 | 12610 | 11160 | 6610 | 6940 | 4100 | 4370 | 2470 | (25.9) |
| Ground | kg | | | *9170 | 5260 | 4810 | 2780 | 3030 | 1760 | 2060 | 1160 | 7.67 |
| Line | lb | | | *20220 | 11600 | 10600 | 6130 | 6680 | 3880 | 4540 | 2560 | (25.2) |
| -1.5 m | kg | *5850 | *5850 | *8700 | 5160 | 4700 | 2680 | 2980 | 1710 | 2350 | 1340 | 7.07 |
| (-5 ft) | lb | *12900 | *12900 | *19180 | 11380 | 10360 | 5910 | 6570 | 3770 | 5180 | 2950 | (23.2) |
| -3.0 m | kg | *8930 | *8930 | *7030 | 5230 | 4720 | 2700 | | | *2400 | 1830 | 5.97 |
| (-10 ft) | lb | *19690 | *19690 | *15500 | 11530 | 10410 | 5950 | | | *5290 | 4030 | (19.6) |
| -4.5 m | kg | | | *3750 | *3750 | | | | | | | |
| (-15 ft) | lb | | | *8270 | *8270 | | | | | | | |

Boom : 4.6 m (15′ 1″) / Arm : 3.0 m (9′ 10″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *2560 | *2560 | *1730 | *1730 | | | 2570 | 1560 | 7.07 |
| (20 ft) | lb | | | | | *5640 | *5640 | *3810 | *3810 | | | 5670 | 3440 | (23.2) |
| 4.5 m | kg | | | | | *2760 | *2760 | *2550 | 2110 | | | 2090 | 1220 | 7.86 |
| (15 ft) | lb | | | | | *6080 | *6080 | *5620 | 4650 | | | 4610 | 2690 | (25.8) |
| 3.0m | kg | | | *3690 | *3690 | *3690 | 3360 | *3210 | 2020 | *1430 | 1280 | 1860 | 1050 | 8.27 |
| (10 ft) | lb | | | *8140 | *8140 | *8140 | 7410 | *7080 | 4450 | *3150 | 2820 | 4100 | 2310 | (27.1) |
| 1.5 m | kg | | | *7740 | 5950 | *5030 | 3070 | 3170 | 1890 | *1990 | 1230 | 1790 | 990 | 8.36 |
| (5 ft) | lb | | | *17060 | 13120 | *11090 | 6770 | 6990 | 4170 | *4390 | 2710 | 3950 | 2180 | (27.4) |
| Ground | kg | | | *9180 | 5360 | 4850 | 2820 | 3040 | 1770 | *1830 | 1180 | 1850 | 1020 | 8.14 |
| Line | lb | | | *20240 | 11820 | 10690 | 6220 | 6700 | 3900 | *4030 | 2600 | 4080 | 2250 | (26.7) |
| -1.5 m | kg | *5380 | *5380 | *8930 | 5160 | 4700 | 2680 | 2960 | 1690 | | | 2070 | 1160 | 7.59 |
| (-5 ft) | lb | *11860 | *11860 | *19690 | 11380 | 10360 | 5910 | 6530 | 3730 | | | 4560 | 2560 | (24.9) |
| -3.0 m | kg | *7860 | *7860 | *7790 | 5170 | 4670 | 2650 | 2960 | 1690 | | | *2460 | 1520 | 6.59 |
| (-10 ft) | lb | *17330 | *17330 | *17170 | 11400 | 10300 | 5840 | 6530 | 3730 | | | *5420 | 3350 | (21.6) |
| -4.5 m | kg | *8050 | *8050 | *5160 | *5160 | *3260 | 2770 | | | | | | | |
| (-15 ft) | lb | *17750 | *17750 | *11380 | *11380 | *7190 | 6110 | | | | | | | |

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

# Lifting Capacity

## R145LCR-9A (DOZER TYPE)

Rating over-front  Rating over-side or 360 degree

Boom : 4.6 m (15′ 1″) / Arm : 1.9 m (6′ 3″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *3270 | *3270 | | | *3720 | 2300 | 5.75 |
| (20 ft) | lb | | | | | *7210 | *7210 | | | *8200 | 5070 | (18.9) |
| 4.5 m | kg | | | *4960 | *4960 | *4310 | 3480 | | | 2960 | 1680 | 6.73 |
| (15 ft) | lb | | | *10930 | *10930 | *9500 | 7670 | | | 6530 | 3700 | (22.1) |
| 3.0m | kg | | | *7230 | 6370 | *5000 | 3280 | 3530 | 2000 | 2580 | 1430 | 7.22 |
| (10 ft) | lb | | | *15940 | 14040 | *11020 | 7230 | 7780 | 4410 | 5690 | 3150 | (23.7) |
| 1.5 m | kg | | | *9120 | 5630 | 5490 | 3030 | 3430 | 1910 | 2480 | 1360 | 7.32 |
| (5 ft) | lb | | | *20110 | 12410 | 12100 | 6680 | 7560 | 4210 | 5470 | 3000 | (24.0) |
| Ground | kg | | | *8610 | 5370 | 5300 | 2860 | 3340 | 1840 | 2600 | 1420 | 7.06 |
| Line | lb | | | *18980 | 11840 | 11680 | 6310 | 7360 | 4060 | 5730 | 3130 | (23.2) |
| -1.5 m | kg | *6830 | *6830 | *8140 | 5370 | 5240 | 2810 | | | 3050 | 1680 | 6.40 |
| (-5 ft) | lb | *15060 | *15060 | *17950 | 11840 | 11550 | 6190 | | | 6720 | 3700 | (21.0) |
| -3.0 m | kg | | | *6010 | 5510 | *4100 | 2880 | | | *2250 | *2250 | 5.12 |
| (-10 ft) | lb | | | *13250 | 12150 | *9040 | 6350 | | | *4960 | *4960 | (16.8) |

Boom : 4.6 m (15′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *3440 | *3440 | | | *3550 | 2160 | 5.98 |
| (20 ft) | lb | | | | | *7580 | *7580 | | | *7830 | 4760 | (19.6) |
| 4.5 m | kg | | | *4390 | *4390 | *4140 | 3500 | *2560 | 2070 | 2830 | 1600 | 6.92 |
| (15 ft) | lb | | | *9680 | *9680 | *9130 | 7720 | *5640 | 4560 | 6240 | 3530 | (22.7) |
| 3.0m | kg | | | *6870 | 6440 | *4840 | 3290 | 3530 | 2010 | 2480 | 1370 | 7.39 |
| (10 ft) | lb | | | *15150 | 14200 | *10670 | 7250 | 7780 | 4430 | 5470 | 3020 | (24.2) |
| 1.5 m | kg | | | *9010 | 5670 | 5490 | 3030 | 3420 | 1900 | 2380 | 1290 | 7.49 |
| (5 ft) | lb | | | *19860 | 12500 | 12100 | 6680 | 7540 | 4190 | 5250 | 2840 | (24.6) |
| Ground | kg | | | *8870 | 5340 | 5280 | 2840 | 3320 | 1820 | 2480 | 1340 | 7.24 |
| Line | lb | | | *19550 | 11770 | 11640 | 6260 | 7320 | 4010 | 5470 | 2950 | (23.8) |
| -1.5 m | kg | *6560 | *6560 | *8340 | 5310 | 5200 | 2770 | 3290 | 1790 | 2880 | 1580 | 6.60 |
| (-5 ft) | lb | *14460 | *14460 | *18390 | 11710 | 11460 | 6110 | 7250 | 3950 | 6350 | 3480 | (21.7) |
| -3.0 m | kg | *9060 | *9060 | *6360 | 5430 | *4350 | 2820 | | | *2390 | 2250 | 5.38 |
| (-10 ft) | lb | *19970 | *19970 | *14020 | 11970 | *9590 | 6220 | | | *5270 | 4960 | (17.7) |

Boom : 4.6 m (15′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *2960 | *2960 | | | *2910 | 1840 | 6.50 |
| (20 ft) | lb | | | | | *6530 | *6530 | | | *6420 | 4060 | (21.3) |
| 4.5 m | kg | | | | | *3460 | *3460 | *2670 | 2090 | 2530 | 1400 | 7.37 |
| (15 ft) | lb | | | | | *7630 | *7630 | *5890 | 4610 | 5580 | 3090 | (24.2) |
| 3.0m | kg | | | *6090 | *6090 | *4480 | 3320 | 3540 | 2010 | 2240 | 1210 | 7.81 |
| (10 ft) | lb | | | *13430 | *13430 | *9880 | 7320 | 7800 | 4430 | 4940 | 2670 | (25.6) |
| 1.5 m | kg | | | *8480 | 5780 | *5360 | 3040 | 3410 | 1890 | 2150 | 1140 | 7.90 |
| (5 ft) | lb | | | *18700 | 12740 | *11820 | 6700 | 7520 | 4170 | 4740 | 2510 | (25.9) |
| Ground | kg | | | *9170 | 5330 | 5260 | 2820 | 3300 | 1790 | 2230 | 1180 | 7.67 |
| Line | lb | | | *20220 | 11750 | 11600 | 6220 | 7280 | 3950 | 4920 | 2600 | (25.2) |
| -1.5 m | kg | *5850 | *5850 | *8700 | 5230 | 5150 | 2720 | 3240 | 1740 | 2550 | 1370 | 7.07 |
| (-5 ft) | lb | *12900 | *12900 | *19180 | 11530 | 11350 | 6000 | 7140 | 3840 | 5620 | 3020 | (23.2) |
| -3.0 m | kg | *8930 | *8930 | *7030 | 5300 | *4770 | 2740 | | | *2400 | 1860 | 5.97 |
| (-10 ft) | lb | *19690 | *19690 | *15500 | 11680 | *10520 | 6040 | | | *5290 | 4100 | (19.6) |
| -4.5 m | kg | | | *3750 | *3750 | | | | | | | |
| (-15 ft) | lb | | | *8270 | *8270 | | | | | | | |

Boom : 4.6 m (15′ 1″) / Arm : 3.0 m (9′ 10″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | | | | | *2560 | *2560 | *1730 | *1730 | | | *2600 | 1580 | 7.07 |
| (20 ft) | lb | | | | | *5640 | *5640 | *3810 | *3810 | | | *5730 | 3480 | (23.2) |
| 4.5 m | kg | | | | | *2760 | *2760 | *2550 | 2140 | | | 2260 | 1240 | 7.86 |
| (15 ft) | lb | | | | | *6080 | *6080 | *5620 | 4720 | | | 4980 | 2730 | (25.8) |
| 3.0m | kg | | | *3690 | *3690 | *3690 | 3400 | *3210 | 2040 | *1430 | 1300 | 2020 | 1070 | 8.27 |
| (10 ft) | lb | | | *8140 | *8140 | *8140 | 7500 | *7080 | 4500 | *3150 | 2870 | 4450 | 2360 | (27.1) |
| 1.5 m | kg | | | *7740 | 6020 | *5030 | 3110 | 3440 | 1910 | *1990 | 1250 | 1950 | 1010 | 8.36 |
| (5 ft) | lb | | | *17060 | 13270 | *11090 | 6860 | 7580 | 4210 | *4390 | 2760 | 4300 | 2230 | (27.4) |
| Ground | kg | | | *9190 | 5430 | 5310 | 2860 | 3300 | 1790 | *1830 | 1200 | 2010 | 1040 | 8.14 |
| Line | lb | | | *20260 | 11970 | 11710 | 6310 | 7280 | 3950 | *4030 | 2650 | 4430 | 2290 | (26.7) |
| -1.5 m | kg | *5380 | *5380 | *9060 | 5220 | 5140 | 2720 | 3220 | 1720 | | | 2250 | 1180 | 7.59 |
| (-5 ft) | lb | *11860 | *11860 | *19970 | 11510 | 11330 | 6000 | 7100 | 3790 | | | 4960 | 2600 | (24.9) |
| -3.0 m | kg | *7860 | *7860 | *7790 | 5240 | 5120 | 2690 | 3220 | 1720 | | | *2460 | 1540 | 6.59 |
| (-10 ft) | lb | *17330 | *17330 | *17170 | 11550 | 11290 | 5930 | 7100 | 3790 | | | *5420 | 3400 | (21.6) |
| -4.5 m | kg | *8050 | *8050 | *5160 | *5160 | *3260 | 2810 | | | | | | | |
| (-15 ft) | lb | *17750 | *17750 | *11380 | *11380 | *7190 | 6190 | | | | | | | |

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

# Lifting Capacity

## R145LCR-9A ADJUSTABLE BOOM

Rating over-front  Rating over-side or 360 degree

Boom : 4.9 m (16′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | *3440 | *3440 | *3680 | *3680 | *3490 | 3410 | | | 3050 | 1730 | 6.46 |
| (20 ft) | lb | *7580 | *7580 | *8110 | *8110 | *7690 | 7520 | | | 6720 | 3810 | (21.2) |
| 4.5 m | kg | *3330 | *3330 | *4400 | *4400 | *3800 | 3300 | *3400 | 1940 | 2380 | 1300 | 7.33 |
| (15 ft) | lb | *7340 | *7340 | *9700 | *9700 | *8380 | 7280 | *7500 | 4280 | 5250 | 2870 | (24.0) |
| 3.0m | kg | | | *6780 | 5910 | *4560 | 3030 | 3300 | 1840 | 2100 | 1110 | 7.77 |
| (10 ft) | lb | | | *14950 | 13030 | *10050 | 6680 | 7280 | 4060 | 4630 | 2450 | (25.5) |
| 1.5 m | kg | | | | | 5080 | 2740 | 3170 | 1720 | 2010 | 1050 | 7.87 |
| (5 ft) | lb | | | | | 11200 | 6040 | 6990 | 3790 | 4430 | 2310 | (25.8) |
| Ground | kg | | | *5890 | 4810 | 4860 | 2550 | 3060 | 1620 | 2100 | 1090 | 7.63 |
| Line | lb | | | *12990 | 10600 | 10710 | 5620 | 6750 | 3570 | 4630 | 2400 | (25.0) |
| -1.5 m | kg | | | *8270 | 4820 | 4790 | 2490 | 3020 | 1590 | | | |
| (-5 ft) | lb | | | *18230 | 10630 | 10560 | 5490 | 6660 | 3510 | | | |

Boom : 4.9 m (16′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| 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 |
| | |  |  |  |  |  |  |  |  |  |  |  |  | m (ft) |
| 6.0 m | kg | *2580 | *2580 | *2970 | *2970 | *3100 | *3100 | *2050 | 1970 | | | 2660 | 1480 | 6.96 |
| (20.0 ft) | lb | *5690 | *5690 | *6550 | *6550 | *6830 | *6830 | *4520 | 4340 | | | 5860 | 3260 | (22.8) |
| 4.5 m | kg | *2210 | *2210 | *3110 | *3110 | *3430 | 3340 | *3140 | 1960 | | | 2130 | 1140 | 7.77 |
| (15.0 ft) | lb | *4870 | *4870 | *6860 | *6860 | *7560 | 7360 | *6920 | 4320 | | | 4700 | 2510 | (25.5) |
| 3.0m | kg | | | *6010 | *6010 | *4220 | 3070 | 3310 | 1850 | | | 1900 | 970 | 8.18 |
| (10.0 ft) | lb | | | *13250 | *13250 | *9300 | 6770 | 7300 | 4080 | | | 4190 | 2140 | (26.8) |
| 1.5 m | kg | | | *7630 | 5190 | 5110 | 2760 | 3160 | 1710 | 2150 | 1110 | 1820 | 920 | 8.27 |
| (5.0 ft) | lb | | | *16820 | 11440 | 11270 | 6080 | 6970 | 3770 | 4740 | 2450 | 4010 | 2030 | (27.1) |
| Ground | kg | | | *6220 | 4780 | 4850 | 2530 | 3030 | 1590 | | | 1890 | 950 | 8.05 |
| Line | lb | | | *13710 | 10540 | 10690 | 5580 | 6680 | 3510 | | | 4170 | 2090 | (26.4) |
| -1.5 m | kg | | | *8430 | 4720 | 4730 | 2430 | 2970 | 1540 | | | 2130 | 1090 | 7.49 |
| (-5.0 ft) | lb | | | *18580 | 10410 | 10430 | 5360 | 6550 | 3400 | | | 4700 | 2400 | (24.6) |
| -3.0 m | kg | | | | | 4760 | 2450 | | | | | | | |
| (-10.0 ft) | lb | | | | | 10490 | 5400 | | | | | | | |

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

# Lifting Capacity

## R145LCR-9A ADJUSTABLE BOOM (DOZER TYPE)

Rating over-front Rating over-side or 360 degree

Boom : 4.9 m (16′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| Load point height m (ft) | | Load 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) |
| 6.0 m | kg | *3440 | *3440 | *3680 | *3680 | *3490 | *3490 | | | *3150 | 1860 | 6.46 |
| (20 ft) | lb | *7580 | *7580 | *8110 | *8110 | *7690 | *7690 | | | *6940 | 4100 | (21.2) |
| 4.5 m | kg | *3330 | *3330 | *4400 | *4400 | *3800 | 3490 | *3400 | 2070 | 2620 | 1410 | 7.33 |
| (15 ft) | lb | *7340 | *7340 | *9700 | *9700 | *8380 | 7690 | *7500 | 4560 | 5780 | 3110 | (24.0) |
| 3.0m | kg | | | *6780 | 6240 | *4560 | 3220 | 3610 | 1980 | 2320 | 1210 | 7.77 |
| (10 ft) | lb | | | *14950 | 13760 | *10050 | 7100 | 7960 | 4370 | 5110 | 2670 | (25.5) |
| 1.5 m | kg | | | | | *5380 | 2930 | 3470 | 1850 | 2230 | 1140 | 7.87 |
| (5 ft) | lb | | | | | *11860 | 6460 | 7650 | 4080 | 4920 | 2510 | (25.8) |
| Ground | kg | | | *5890 | 5150 | 5320 | 2740 | 3360 | 1760 | 2320 | 1190 | 7.63 |
| Line | lb | | | *12990 | 11350 | 11730 | 6040 | 7410 | 3880 | 5110 | 2620 | (25.0) |
| -1.5 m | kg | | | *8270 | 5160 | 5250 | 2680 | 3320 | 1720 | | | |
| (-5 ft) | lb | | | *18230 | 11380 | 11570 | 5910 | 7320 | 3790 | | | |

Boom : 4.9 m (16′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.52 m³ (0.68 yd³) SAE heaped / Shoe : 500mm(20″) triple grouser

| 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 |
| | | | | | | | | | | | | | | m (ft) |
| 6.0 m | kg | *2580 | *2580 | *2970 | *2970 | *3100 | *3100 | *2050 | *2050 | | | *2890 | 1590 | 6.96 |
| (20.0 ft) | lb | *5690 | *5690 | *6550 | *6550 | *6830 | *6830 | *4520 | *4520 | | | *6370 | 3510 | (22.8) |
| 4.5 m | kg | *2210 | *2210 | *3110 | *3110 | *3430 | *3430 | *3140 | 2090 | | | 2350 | 1240 | 7.77 |
| (15.0 ft) | lb | *4870 | *4870 | *6860 | *6860 | *7560 | *7560 | *6920 | 4610 | | | 5180 | 2730 | (25.5) |
| 3.0m | kg | | | *6010 | *6010 | *4220 | 3260 | *3450 | 1980 | | | 2100 | 1070 | 8.18 |
| (10.0 ft) | lb | | | *13250 | *13250 | *9300 | 7190 | *7610 | 4370 | | | 4630 | 2360 | (26.8) |
| 1.5 m | kg | | | *7630 | 5520 | *5120 | 2950 | 3460 | 1840 | *2330 | 1210 | 2020 | 1010 | 8.27 |
| (5.0 ft) | lb | | | *16820 | 12170 | *11290 | 6500 | 7630 | 4060 | *5140 | 2670 | 4450 | 2230 | (27.1) |
| Ground | kg | | | *6220 | 5120 | 5300 | 2720 | 3330 | 1730 | | | 2090 | 1040 | 8.05 |
| Line | lb | | | *13710 | 11290 | 11680 | 6000 | 7340 | 3810 | | | 4610 | 2290 | (26.4) |
| -1.5 m | kg | | | *8430 | 5060 | 5190 | 2620 | 3270 | 1670 | | | 2360 | 1190 | 7.49 |
| (-5.0 ft) | lb | | | *18580 | 11160 | 11440 | 5780 | 7210 | 3680 | | | 5200 | 2620 | (24.6) |
| -3.0 m | kg | | | | | *5000 | 2640 | | | | | | | |
| (-10.0 ft) | lb | | | | | *11020 | 5820 | | | | | | | |

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

## 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(LH)
  - Lockable door
  - Hot & cool box
  - Storage compartment & Ashtray
  - Radio & USB player
  - Handsfree mobile phone system with USB
  - Transparent cabin roof-cover
  - 12 volt power outlet (24V DC to 12V DC converter)
  - Sun visor
- Cabin ROPS(ISO 12117-2)
  - ROPS(Roll over protective structure)
- Computer aided power optimization (New CAPO) system
  - 3-power mode, 2-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
- Door and cab locks, one key
- Three outside rearview mirrors
- Mechanical suspension seat with heater
- Pilot-operated slidable joystick
- Four front working lights
- Electric horn
- Batteries (2 x 12V x 100 AH)
- Battery master switch
- Removable clean-out dust net for cooler
- Automatic swing brake
- Removable reservoir tank
- Fuel pre-filter
- Boom holding system
- Arm holding system
- Track shoes (600mm, 24")
- Track rail guard
- Accumulator for lowering work equipment
- Electric transducer
- Lower frame under cover (Normal)
- Viscous fan clutch

## OPTIONAL EQUIPMENT

- Fuel filler pump (35 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
- Travel alarm
- Booms
  - 4.6 m, 15' 1"
  - 4.9 m, 16' 1" ( Hyd. adjustable boom )
- Arms
  - 1.9m, 6' 3"
  - 2.1 m, 6' 11"
  - 2.5 m, 8' 2"
  - 3.0 m, 9' 10"
- Cabin FOPS/FOG (ISO/DIS 10262) Level II
  - FOPS (Falling Object Protective Structure)
  - FOG (Falling Object Guard)
- Cabin lights
- Cabin front window rain guard
- Track shoes
  - Triple grousers shoe (500mm, 20")
  - Triple grousers shoe (600mm, 24")
  - Triple grousers shoe (700mm, 28")
  - Rubbber pad (600mm, 24")
- Lower frame under cover (Additional)
- Long crawler lower frame
- Dozer blade
- Tool kit
- Rearview camera
- Pattern change valve (2 patterns)
- Hi-mate (Remote Management System)

* 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.

**PLEASE CONTACT**

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