

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
 Transparent cabin roof-cover
 CD/MP3 Player
 Handsfree mobile phone system with USB
 Sun visor
12 volt power outlet (24V DC to 12V DC converter)
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
 Communication error
 Low battery
 Air cleaner clogging
 Indicators
 Power max
 Fuel warmer
 Auto idle
Door and cab locks, one key
Two outside rearview mirrors
Mechanical suspension seat with heater
Pilot-operated slideable joystick
Console box height adjust system
Four front working lights
 Electric horn
 Batteries (2 x 12V x 80 AH)
 Battery master switch
 Removable clean-out screen for oil cooler
 Automatic swing brake
 Removable reservoir tank
 Fuel pre-filter with fuel warmer
 Boom holding system
 Arm holding system
 Counterweight (2,800kg, 6,170lb)
 Track shoes (500mm, 20")
Track rail guard
Accumulator for lowering work equipment
Electric transducer
Lower frame under cover (Normal)

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
Arms
 Super Short arm (1.9 m, 6' 3")
 Short arm (2.1 m, 6' 11")
 Long arm (3.0 m, 9' 10")
Cabin lights
Cabin front window rain guard
Track shoes
 Triple grousers shoe (600mm, 24")
 Triple grousers shoe (700mm, 28")
Lower frame under cover (Additional)
Long crawler lower frame
Dozer blade
Tool kit
Operator suit
Rearview camera
Pattern change valve (2 patterns)
Hi-mate (Remote Management System)

We build a better future

Robex

I45CR-9

With Tier 3 Engine installed



PLEASE CONTACT

HYUNDAI
HEAVY INDUSTRIES CO., LTD.

CONSTRUCTION EQUIPMENT

Head Office (Sales Office)
 1 JEONHA-DONG, DONG-GU, ULSAN, KOREA TEL: (82) 52-202-7970, 7729, 0971 FAX: (82) 52-202-7979, 7720
 U.S. Operation: Hyundai Construction Equipment Americas, Inc.
 955 ESTES AVENUE, ELK GROVE VILLAGE, IL 60007, U.S.A. TEL: (1) 847-437-3333 FAX: (1) 847-437-3574
 European Operation: Hyundai Heavy Industries Europe N.V.
 VOSSENDAAL 11, 2440 GEEL, BELGIUM TEL: (32) 14-56-2200 FAX: (32) 14-59-3405
 India Operation: Hyundai Construction Equipment India Pvt., Ltd.
 PLOT NO.A-2, CHAKAN INDUSTRIAL AREA, VILL-KHALUMBRE, TALUK-KHED, DIST-PUNE 410 501, INDIA
 TEL: (91) 21-3530-1700 FAX: (91) 21-3530-1712

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 145CR-9

Machine Walk-Around



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

Engine Technology

Proven / reliable, fuel efficient Mitsubishi Tier III D04FD-TAA engine
Electronically controlled for optimum fuel to air ratio and clean, efficient combustion
Low noise / Auto engine overheat 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 3 solenoid valves, 1 EPPR valve, 1 check valve accumulator and line filter controls
2 speed travel, power boost, boom priority, arm-in regeneration, safety lock

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
Adjustable heated suspension seat, control console and arm rests

Advanced 7" Color Cluster

New Color LCD Display with easy-to-read digital gauges for hydraulic oil temperature, water temperature, and fuel. A 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 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 7A series!
RMS (Remote Management System) works through GPS/satellite technology to ultimately provide better customer service and support.

Preference

Operating the R145CR-9 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 9 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 CD/MP3 radio.



Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 9 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 CD 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.



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, and video functions were integrated into the cluster to make the machine more versatile and the operator more productive.



Precision

Innovative hydraulic system technologies make the 9 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, provide the precise flow needed for the job at hand. Operators 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 temperature 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.

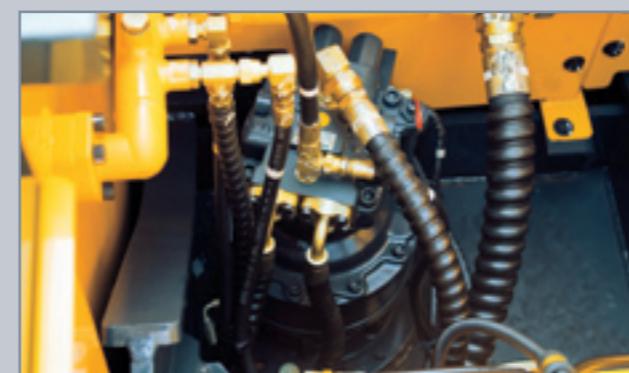
User Mode

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 9 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

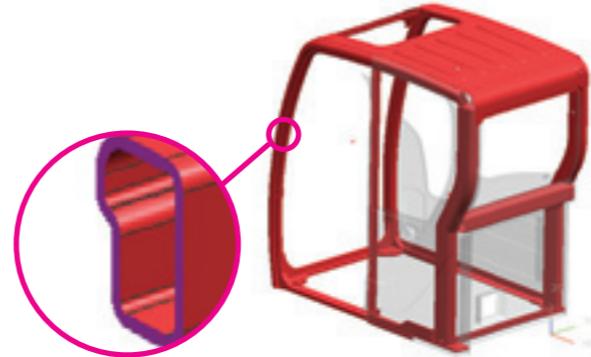
9 series is designed for maximum performance to keep the operator working productively.



*Photo may include optional equipment.

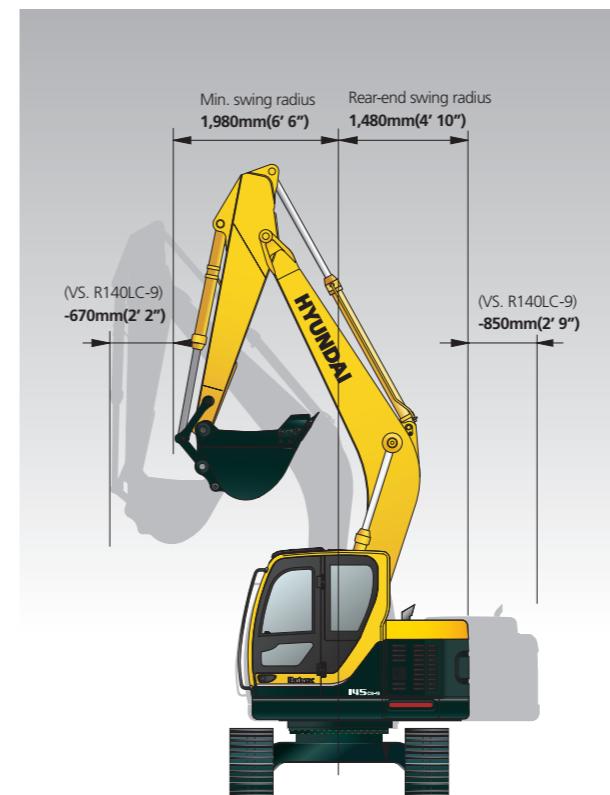
Track Rail Guard & Adjusters

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 9 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.



Excellent Performance in Confined Areas

R145CR-9'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.



Mitsubishi D04FD-TAA

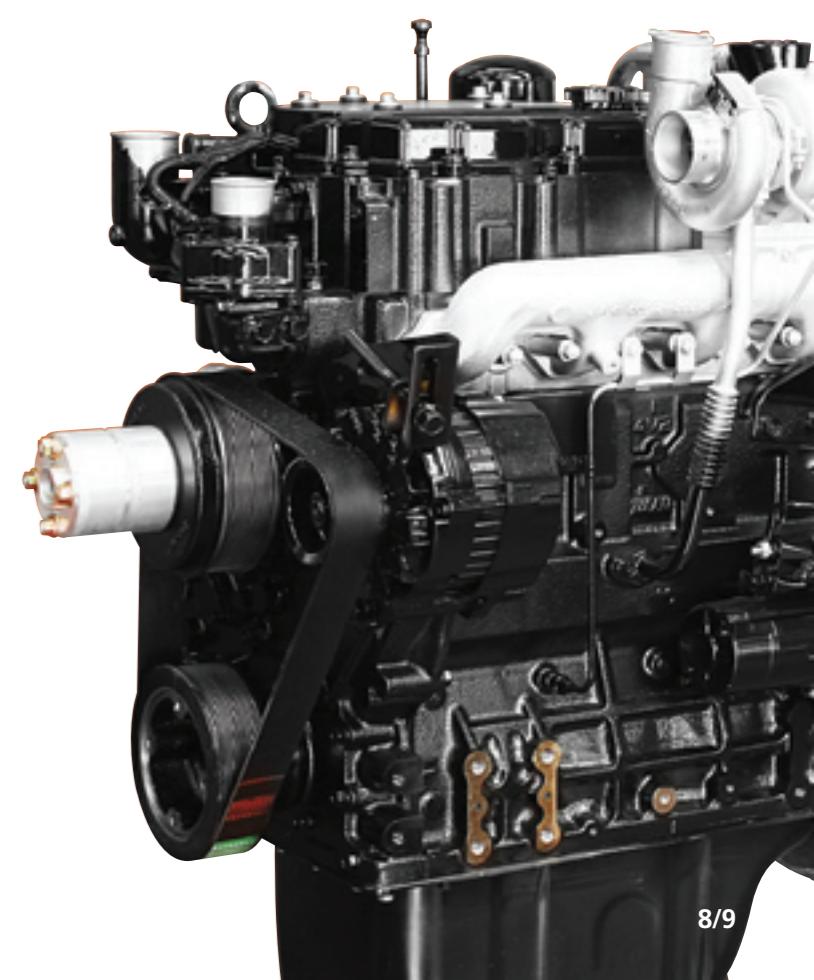
The Tier III, four cylinder, 4 cycle, turbocharged, charge air cooled, Mitsubishi D04FD-TAA engine provides maximum power, reliability, optimum fuel economy, and reduced emissions. Electronically controlled fuel injection and diagnostic capabilities add to the engines efficiency and serviceability.

Heavy-duty strength

Everyone who's ever worked on construction equipment knows, there is no substitute for power and durability. The D04FD-TAA handles the toughest loads and the roughest work conditions.

At the same time, it delivers better fuel economy, has better cold starting capability and is up to 50% quieter in operation. Plus, the heavy-duty design of the D04FD-TAA engine block and components add reliability and durability you can count on every day, year after year.

Both fuel-efficiency and response are significantly enhanced with the Mitsubishi high pressure common rail fuel system. The system delivers high pressure injection, independent of engine speed, for optimum performance and flexibility at every rpm.



Profitable

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



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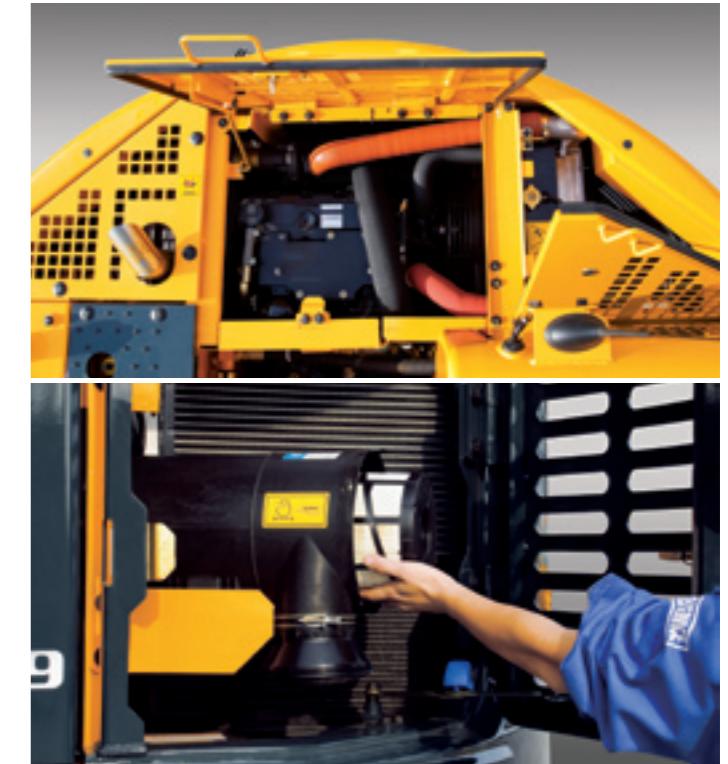
Fuel Efficient

9 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.

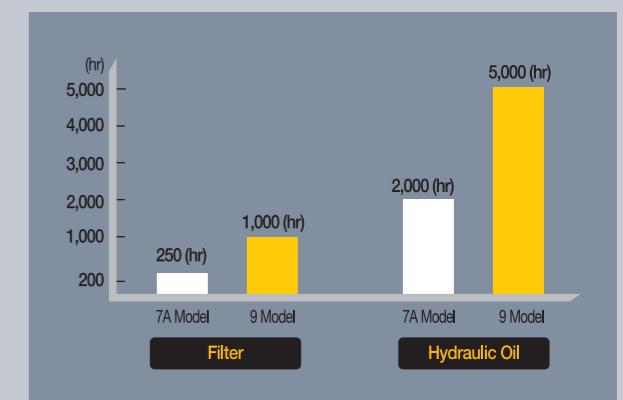
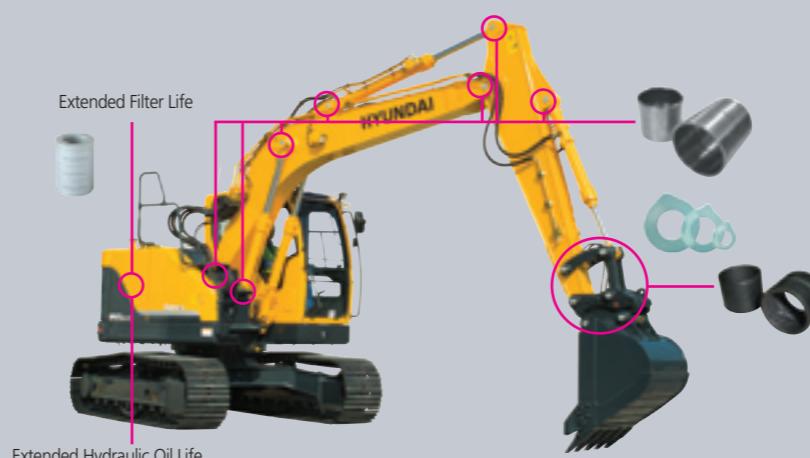


Easy Access

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

Extended Life Components

9 series excavators were designed with bushings designed for extended lube intervals (250 hrs) & ultra high molecular weight polymer shims (wear resistant, noise reducing), extended-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		Mitsubishi D04FD-TAA	
Type		Water cooled, 4 cycle Diesel, 4-cylinders in line, direct injection, turbocharged charger and air cooled	
Rated flywheel horse power	SAE	J1995 (gross) J1349 (net)	119 HP (89 kW)/ 2,000 rpm 113 HP (85 kW)/ 2,000 rpm
	DIN	6271/1 (gross) 6271/1 (net)	121 PS (89 kW)/ 2,000 rpm 115 PS (85 kW)/ 2,000 rpm
Max. torque			45.4 kgf·m(328 lbf·ft)/ 1,700 rpm
	Bore X stroke		102 x 130 mm (4.0" x 5.1")
Piston		4,250cc (260 in ³)	
Batteries		2 X 12V X 80AH	
Starting motor		24V- 5.0kW	
Alternator		24V- 50Amp	

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem axis piston pumps
Rated flow	2 X 130L/min (34.3 US gpm / 28.6 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	Boom: 105 X 1,105 mm (4.1" X 43.5")
bore X stroke	Arm: 115 X 1,138 mm (4.5" X 44.8")
	Bucket: 100 X 840 mm (3.9" X 33.1")
	Blade: 100 X 260 mm (3.9" X 10.2")

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) / 3.2 km/hr (2.0 mph)
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	Fixed displacement axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	12 rpm

COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	232	61.3	51.0
Engine coolant	14.5	3.8	3.2
Engine oil	17.5	4.6	3.8
Swing device-gear oil	2.5	0.7	0.5
Final drive(each)-gear oil	3.6	1.0	0.8
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		45EA	47EA	
No. of carrier roller on each side	R145CR-9	1 EA	R145LCR-9	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 0.52m³ (0.68 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

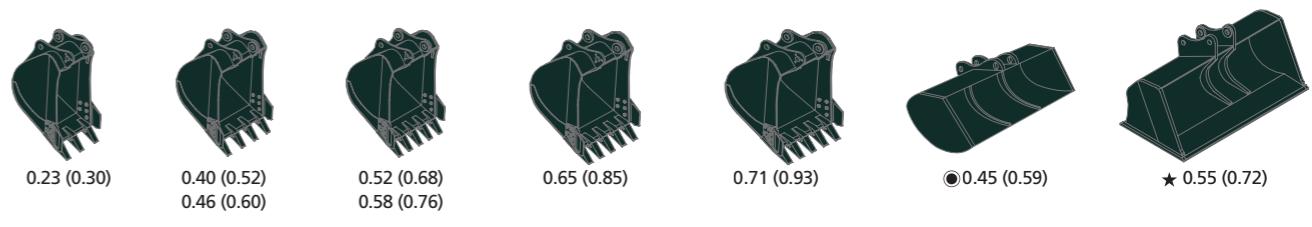
MAJOR COMPONENT WEIGHT	
Upperstructure	6,950 kg (15,320 lb)
Counterweight	2,800 kg (6,170 lb)
4.6m (15' 1")mono boom(with arm cylinder)	1,030 kg (2,270 lb)

OPERATING WEIGHT

Shoes		Operating weight	Ground pressure
Type	Width mm(in)	kg(lb)	kgf/cm ² (psi)
500 (20")	R145CR-9	14,600(32,190)	0.46(6.54)
	R145CR-9 (Dozer type)	15,400(33,950)	0.49(6.97)
	R145LCR-9	14,785(32,600)	0.47(6.68)
	R145LCR-9 (Dozer type)	15,585(34,360)	0.49(6.97)
600 (24")	R145CR-9	14,790(32,610)	0.39(5.55)
	R145CR-9 (Dozer type)	15,610(34,410)	0.41(5.83)
	R145LCR-9	14,980(33,020)	0.40(5.69)
	R145LCR-9 (Dozer type)	15,800(34,830)	0.42(5.97)
700 (28")	R145CR-9	15,020(33,110)	0.34(4.83)
	R145CR-9 (Dozer type)	15,840(34,920)	0.36(5.12)
	R145LCR-9	15,215(33,540)	0.34(4.83)
	R145LCR-9 (Dozer type)	16,035(35,350)	0.36(5.12)

BUCKETS

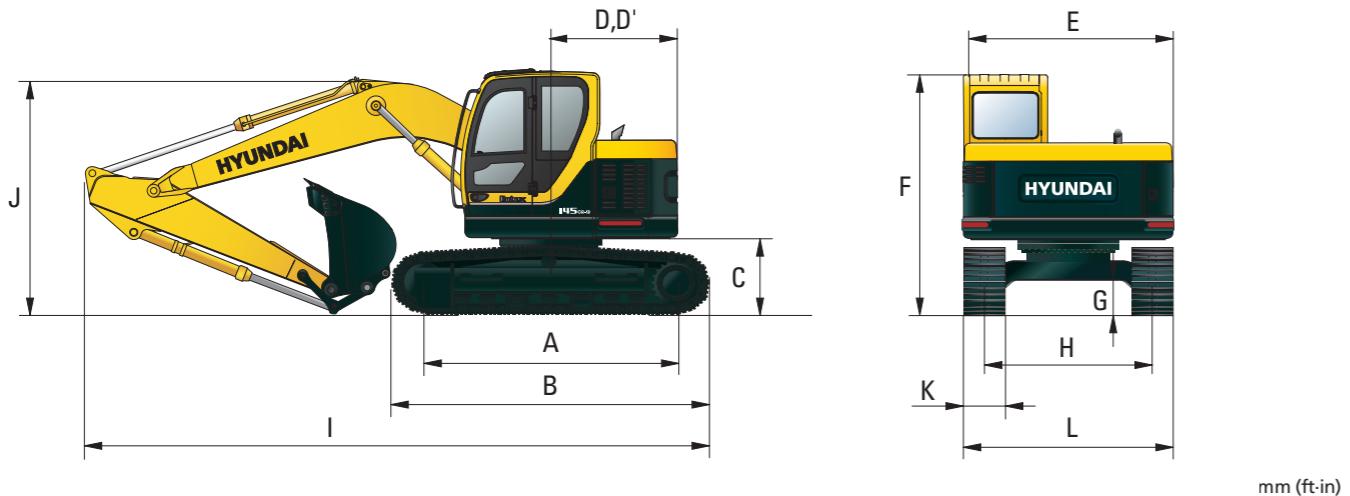
All buckets are welded with high-strength steel.



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
0.23 (0.30)	520(20.5)	620(24.4)	335(740)	320(26)	●	●
0.40 (0.52)	760(29.9)	860(33.9)	410(900)	350(46)	●	●
0.46 (0.60)	850(33.5)	950(37.4)	435(960)	400(52)	●	●
0.52 (0.68)	935(36.8)	1,035(40.8)	460(1,010)	450(55)	●	●
0.58 (0.76)	1,030(40.6)	1,130(44.5)	480(1,060)	500(58)	●	●
0.65 (0.85)	1,110(43.7)	1,210(47.6)	500(1,100)	520(65)	■	▲
0.71 (0.93)	1					

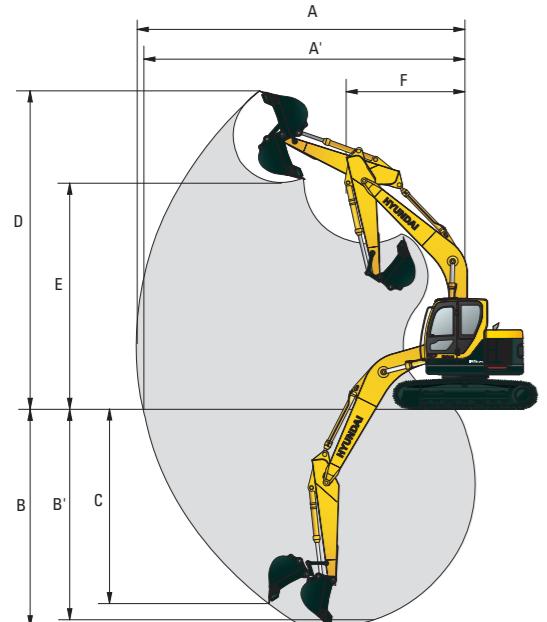
Dimensions & Working Range

R145CR-9 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")			
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")	

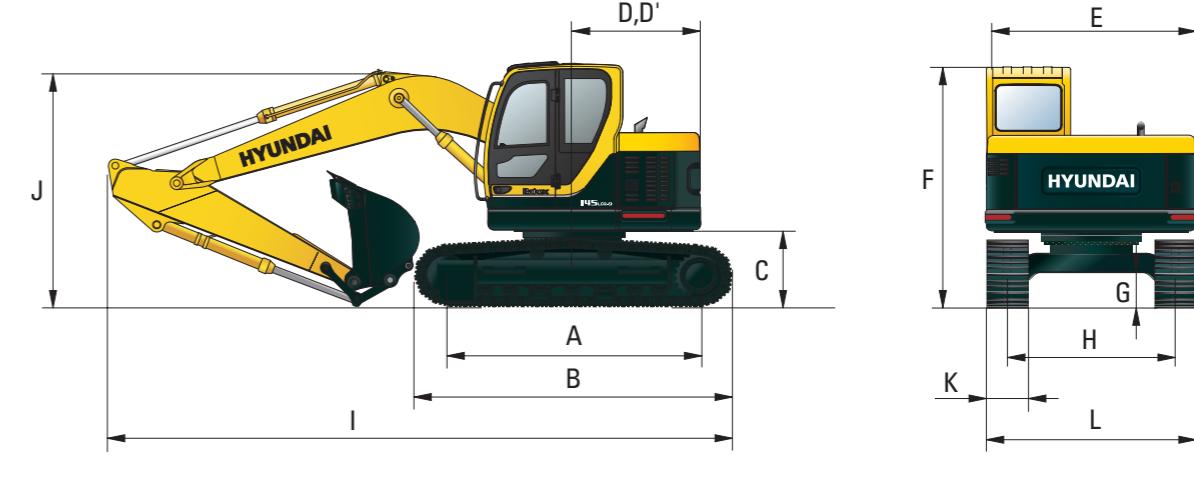
R145CR-9 WORKING RANGE



	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")

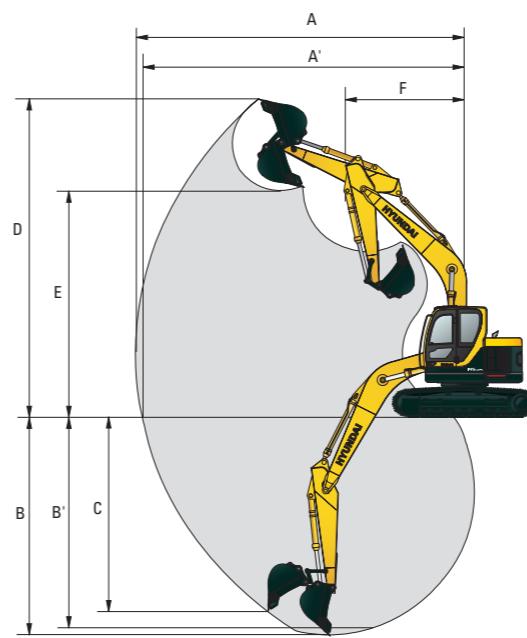
Dimensions & Working Range

R145LCR-9 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")			
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")	

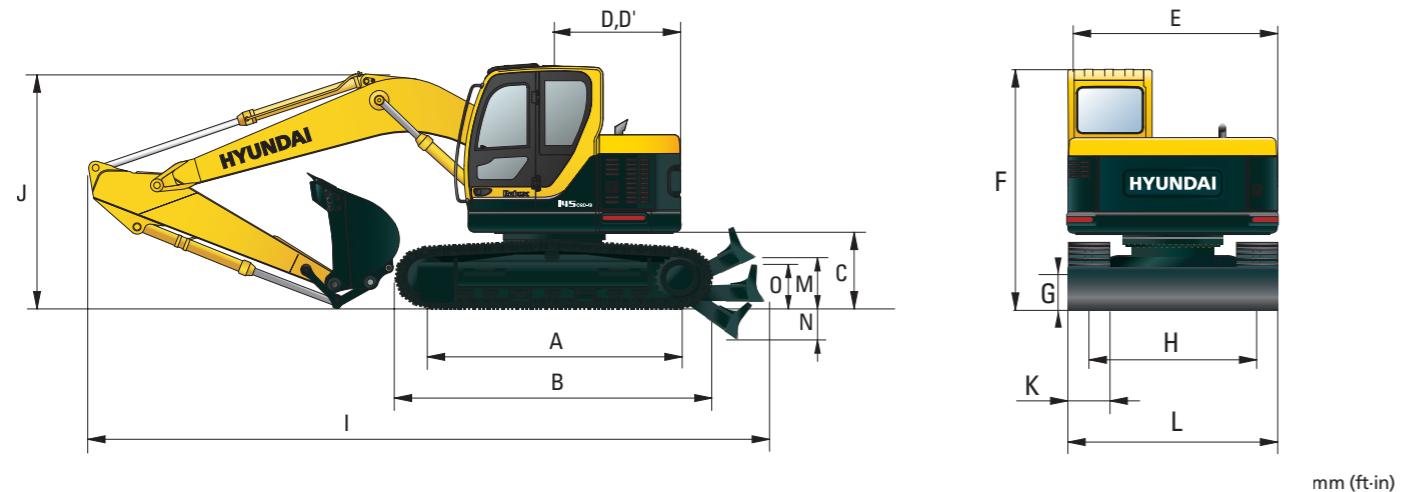
R145LCR-9 WORKING RANGE



	Boom length	mm (ft:in)			
	Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")
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Dimensions & Working Range

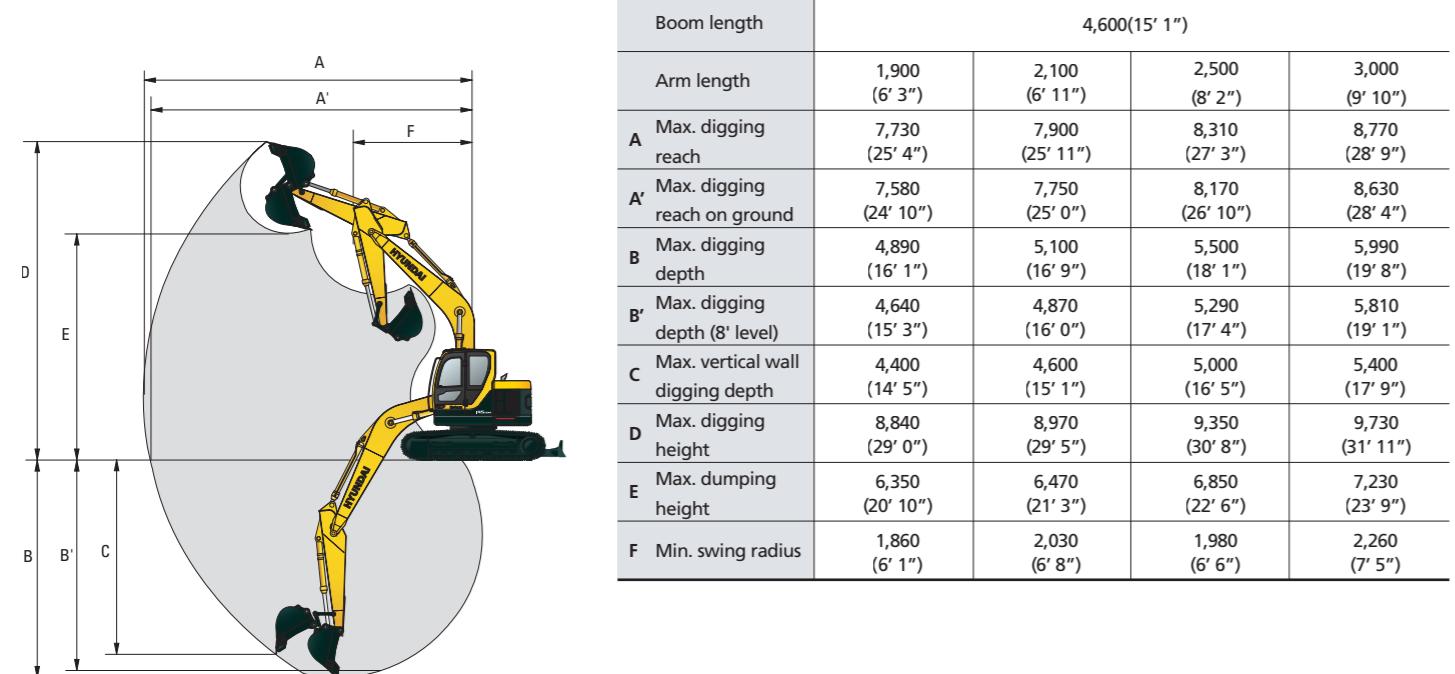
R145CR-9 (DOZER TYPE) DIMENSIONS



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")	

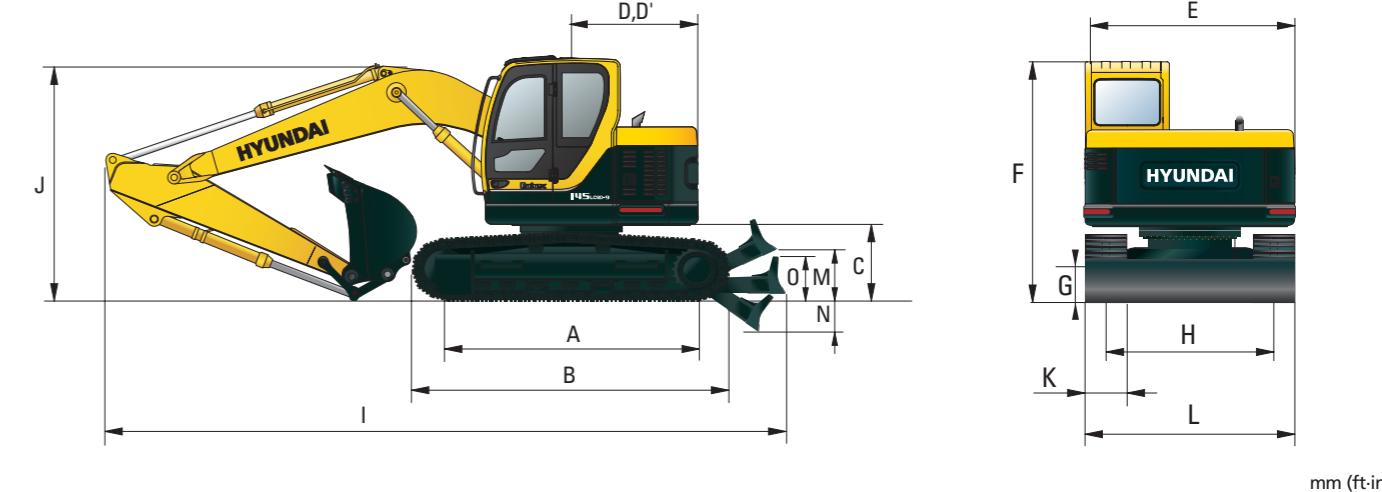
R145CR-9 (DOZER TYPE) WORKING RANGE



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")

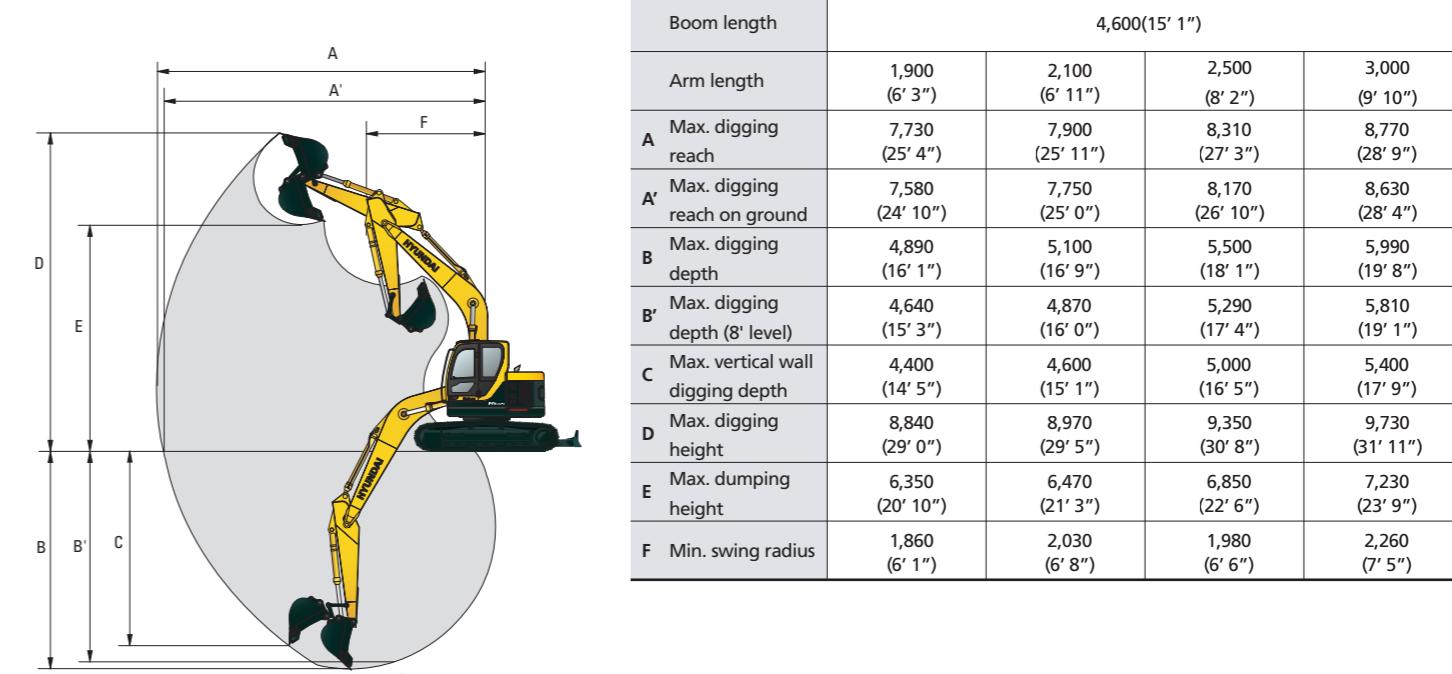
Dimensions & Working Range

R145LCR-9 (DOZER TYPE) DIMENSIONS



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")

R145LCR-9 (DOZER TYPE) WORKING RANGE



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")

Lifting Capacity

R145CR-9

Rating over-front Rating over-side or 360 degree

Boom : 4.6 m (15' 1") / Arm : 1.9 m (6' 3") / Bucket : 0.52 m ³ (0.68 yd ³) SAE heaped / Shoe : 500mm(20") triple grouser with 2,800kg (6,170 lb) counterweight											
Load point height m (ft)	Load radius								At max. reach		
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity	Reach	
6.0 m (20.0 ft)	kg lb				*3270	*3270			3360	2130	5.75
4.5 m (15.0 ft)	kg lb		*4960	*4960	*7210	*7210			7410	4700	(18.9)
			*10930	*10930	*4310	3250			2500	1550	6.73
					*9500	7170			5510	3420	(22.1)
3.0m (10.0 ft)	kg lb		*7230	5970	4900	3050	2980	1850	2170	1310	7.22
			*15940	13160	10800	6720	6570	4080	4780	2890	(23.7)
1.5 m (5.0 ft)	kg lb		*9120	5220	4620	2800	2880	1750	2070	1230	7.32
			*20110	11510	10190	6170	6350	3860	4560	2710	(24.0)
Ground Line	kg lb		*8610	4970	4430	2640	2800	1680	2170	1290	7.06
			*18980	10960	9770	5820	6170	3700	4780	2840	(23.2)
-1.5 m (-5.0 ft)	kg lb	*6830	*6830	*8140	4970	4370	2580		2560	1540	6.40
			*15060	*15060	*17950	10960	9630		5640	3400	(21.0)
-3.0 m (-10.0 ft)	kg lb			*6010	5100	*4100	2650		*2250	*2250	5.12
				*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 with 2,800kg (6,170 lb) counterweight

Load point height m (ft)	Load radius								At max. reach		
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		Reach
											m (ft)
6.0 m (20.0 ft)	kg lb				*3440 *7580	3330 7340			3160 6970	2000 4410	5.98 (19.6)
4.5 m (15.0 ft)	kg lb		*4390 *9680	*4390 *9680	*4140 *9130	3270 7210	*2560 *5640	1910 4210	2390 5270	1470 3240	6.92 (22.7)
3.0 m (10.0 ft)	kg lb		*6870 *15150	6040 13320	*4840 *10670	3060 6750	2990 6590	1850 4080	2080 4590	1240 2730	7.39 (24.2)
1.5 m (5.0 ft)	kg lb	*9010 *19860	5260 11600	4620 10190	2800 6170	2880 6350	1750 3860	1980 4370	1170 2580	7.49 (24.6)	
Ground Line	kg lb		*19550	10890	9720	5750	6130	3660	4560	2070 1220	7.24
-1.5 m (-5.0 ft)	kg lb	*6560 *14460	*6560 *14460	*8340 *18390	4900 10800	4330 9550	2550 5620	2750 6060	1630 3590	2410 5310	1440 3170
-3.0 m (-10.0 ft)	kg lb	*9060 *19970	*9060 *19970	*6360 *14020	5020 11070	*4350 *9590	2600 5730		*2390 *5270	2070 4560	5.38 (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 with 2,800kg (6,170 lb) counterweight

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 with 2,800kg (6,170 lb) counterweight

Load point height m (ft)	Load radius						At max. reach							
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach	
													m (ft)	
6.0 m (20.0 ft)	kg lb				*2560	*2560	*1730	*1730			2350	1450	7.07	
4.5 m (15.0 ft)	kg lb				*5640	*5640	*3810	*3810			5180	3200	(23.2)	
3.0 m (10.0 ft)	kg lb		*3690	*3690	3170	3030	1880	*1430	1180	1680	1680	960	8.27	
1.5 m (5.0 ft)	kg lb		*8140	*8140	8140	6990	6680	4140	*3150	2600	3700	2120	(27.1)	
Ground Line	kg lb		*7740	5620	4720	2880	2890	1750	1950	1130	1610	910	8.36	
			*17060	12390	10410	6350	6370	3860	4300	2490	3550	2010	(27.4)	
			*9180	5020	4440	2630	2760	1630	*1830	1080	1660	930	8.14	
			*20240	11070	9790	5800	6080	3590	*4030	2380	3660	2050	(26.7)	
-1.5 m (-5.0 ft)	kg lb	*5380 *11860	*5380 *11860	*8930 *19690	4820 10630	4280 9440	2490 5490	2680 5910	1560 3440			1860	1060	7.59
-3.0 m (-10.0 ft)	kg lb	*7860 *17330	*7860 *17330	*7790 *17170	4830 10650	4250 9370	2460 5420	2680 5910	1560 3440			4100	2340	(24.9)
-4.5 m (-15.0 ft)	kg lb	*8050 *17750	*8050 *17750	*5160 *11380	5020 11070	*3260 *7190	2580 5690					5250	3090	(21.6)

Lifting Capacity

R145LCR-9

 Rating over-front  Rating over-side or 360 degree

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 with 2,800kg (6,170 lb) counterweight

Load point height m (ft)		Load radius								At max. reach			
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		Reach	
												m (ft)	
6.0 m (20.0 ft)	kg lb					*3440 *7580	3370 7430			3490 7690	2030 4480	5.98 (19.6)	
4.5 m (15.0 ft)	kg lb			*4390 *9680	*4390 *9680	*4140 *9130	3310 7300	*2560 *5640	1940 4280	2650 5840	1490 3280	6.92 (22.7)	
3.0m (10.0 ft)	kg lb			*6870 *15150	6110 13470	*4840 *10670	3100 6830	3310 7300	1880 4140	2310 5090	1260 2780	7.39 (24.2)	
1.5 m (5.0 ft)	kg lb			*9010 *19860	5330 11750	5160 11380	2840 6260	3200 7050	1770 3900	2210 4870	1190 2620	7.49 (24.6)	
Ground Line	kg lb				*8870 *19550	5000 11020	4940 10890	2650 5840	3100 6830	1690 3730	2310 5090	1240 2730	7.24 (23.8)
-1.5 m (-5.0 ft)	kg lb	*6560 *14460	*6560 *14460	*8340 *18390	4970 10960	4860 10710	2580 5690	3070 6770	1660 3660	2690 5930	1460 3220	6.60 (21.7)	
-3.0 m (-10.0 ft)	kg lb	*9060 *19970	*9060 *19970	*6360 *14020	5090 11220	*4350 *9590	2630 5800			*2390 *5270	2100 4630	5.38 (17.7)	

Boom : 4.6 m (15' 1") / Arm : 2.5 m (8' 2") / Bucket : 0.52 m (0.68 yd) SAE heaped / Shoe : 500mm(20") triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)	Load radius								At max. reach		
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		
6.0 m (20.0 ft)	kg				*2960	*2960			*2910	1720	6.50
4.5 m (15.0 ft)	kg				*6530	*6530			*6420	3790	(21.3)
3.0 m (10.0 ft)	kg			*6090	*6090	*4480	3130	3320	1960	2360	7.37
(10.0 ft)	lb			*13430	*13430	*9880	6900	7320	4320	5200	(24.2)
1.5 m (5.0 ft)	kg			*8480	5450	5180	2850	3190	4140	4590	2450
Line	kg			*18700	12020	11420	6280	7030	3880	4410	(25.6)
Ground	kg			*9170	4990	4930	2630	3070	1650	2070	1050
Line	lb			*20220	11000	10870	5800	6770	3640	4560	2310
-1.5 m (-5.0 ft)	kg	*5850	*5850	*8700	4890	4810	2530	3020	1600	2370	1260
(-5.0 ft)	lb	*12900	*12900	*19180	10780	10600	5580	6660	3530	5220	2780
-3.0 m (-10.0 ft)	kg	*8930	*8930	*7030	4970	*4770	2550			*2400	1730
(-10.0 ft)	lb	*19690	*19690	*15500	10960	*10520	5620			*5290	3810
-4.5 m (-15.0 ft)	kg			*3750	*3750						
(-15.0 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 with 2,800kg (6,170 lb) counterweight

Load point height m (ft)	Load radius							At max. reach						
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity	Reach	
													m (ft)	
6.0 m (20.0 ft)	kg lb					*2560	*2560	*1730	*1730			*2600	1470	7.07
4.5 m (15.0 ft)	kg lb					*5640	*5640	*3810	*3810			*5730	3240	(23.2)
3.0 m (10.0 ft)	kg lb					*2760	*2760	*2550	2000			2100	1140	7.86
1.5 m (5.0 ft)	kg lb					*6080	*6080	*5620	4410			4630	2510	(25.8)
Ground Line	kg lb			*3690	*3690	3210	*3210	1910	*1430	1200		1880	980	8.27
				*8140	*8140	7080	*7080	4210	*3150	2650		4140	2160	(27.1)
-1.5 m (-5.0 ft)	kg lb			*7740	5690	*5030	2920	3220	1780	*1990	1150	1800	920	8.36
				*17060	12540	*11090	6440	7100	3920	*4390	2540	3970	2030	(27.4)
-3.0 m (-10.0 ft)	kg lb			*9190	5090	4970	2670	3080	1660	*1830	1100	1860	950	8.14
				*20260	11220	10960	5890	6790	3660	*4030	2430	4100	2090	(26.7)
-4.5 m (-15.0 ft)	kg lb	*5380	*5380	*9060	4890	4810	2530	3000	1590			2090	1080	7.59
		*11860	*11860	*19970	10780	10600	5580	6610	3510			4610	2380	(24.9)
-5.0 m (-17.330 ft)	kg lb	*7860	*7860	*7790	4900	4780	2500	3000	1590			*2460	1420	6.59
		*17330	*17330	*17170	10800	10540	5510	6610	3510			*5420	3130	(21.6)

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.

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-9 (DOZER TYPE)

Boom : 4.6 m (15' 1") / Arm : 1.9 m (6' 3") / Bucket : 0.52 m³ (0.68 yd) SAE heaped / Shoe : 500mm(20") triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)	Load radius						At max. reach	
	1.5 m (5.0 ft)	3.0 m (10.0 ft)	4.5 m (15.0 ft)	6.0 m (20.0 ft)	Capacity	Reach	m (ft)	
6.0 m (20.0 ft) kg			*3270	*3270		3660	2270	5.75
4.5 m kg			*7210	*7210		8070	5000	(18.9)
(15.0 ft) lb			*4960	*4960	*4310	3440	2750	6.73
3.0m kg			*10930	*10930	*9500	7580	6060	(22.1)
(10.0 ft) lb			*7230	6310	*5000	3240	3260	7.22
1.5 m kg			*15940	13910	*11020	7140	4370	2390
(5.0 ft) lb			5560	5040	2990	3160	1890	1330
Ground Line			*20110	12260	11110	6590	4170	5050
kg lb							2930	(24.0)
-1.5 m kg			*8610	5300	4850	2820	1810	2400
(-5.0 ft) lb			*18980	11680	10690	6220	6790	1400
-3.0 m kg			*6010	5440	*4100	2840		7.06
(-10.0 ft) lb			*13250	11990	*9040	6260		5.12
							*2250	
							*4960	
							(16.8)	

Boom : 4.6 m (15' 1") / Arm : 2.1 m (6' 11") / Bucket : 0.52 m³ (0.68 yd) SAE heaped / Shoe : 500mm(20") triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)	Load radius						At max. reach	
	1.5 m (5.0 ft)	3.0 m (10.0 ft)	4.5 m (15.0 ft)	6.0 m (20.0 ft)	Capacity	Reach	m (ft)	
6.0 m (20.0 ft) kg			*3440	*3440		3440	2130	5.98
4.5 m kg			*7580	*7580		7580	4700	(19.6)
(15.0 ft) lb			*4390	*4390	*4140	3460	2040	6.92
3.0m kg			*9680	*9680	*9130	7630	5640	(22.7)
(10.0 ft) lb			*6870	6370	*4840	3250	3270	7.39
1.5 m kg			*15150	14040	*10670	7170	4370	5050
(5.0 ft) lb			*9010	5600	2990	3160	1880	2190
Ground Line			*19860	12350	11110	6590	4140	4830
kg lb			*8870	5270	4830	2800	3060	2800
-1.5 m kg			*19550	11620	10650	6170	6750	5050
(-5.0 ft) lb			*8340	5240	4750	2740	3030	2660
-3.0 m kg			*14460	*14460	*18390	11550	10470	6040
(-10.0 ft) lb			*9060	*9060	*6360	5360	*4350	3860
							*2390	(21.7)
							*5270	
							4890	(17.7)

Boom : 4.6 m (15' 1") / Arm : 2.5 m (8' 2") / Bucket : 0.52 m³ (0.68 yd) SAE heaped / Shoe : 500mm(20") triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)	Load radius						At max. reach	
	1.5 m (5.0 ft)	3.0 m (10.0 ft)	4.5 m (15.0 ft)	6.0 m (20.0 ft)	Capacity	Reach	m (ft)	
6.0 m (20.0 ft) kg			*2960	*2960		*2910	1820	6.50
4.5 m kg			*6530	*6530		*6420	4010	(21.3)
(15.0 ft) lb			*3460	*3460	*2670	2060	2340	1380
3.0m kg			*7630	*7630	*5890	4540	5160	3040
(10.0 ft) lb			*6090	*6090	*4480	3280	3270	2070
1.5 m kg			*13430	*13430	*9880	7230	7210	4370
(5.0 ft) lb			*8480	5720	5060	3000	3150	1860
Ground Line			*18700	12610	11160	6610	6940	4100
kg lb			*20220	11600	10600	6130	6680	3880
-1.5 m kg			*5850	*5850	*8700	5160	4700	2680
(-5.0 ft) lb			*12900	*12900	*19180	11380	10360	5910
-3.0 m kg			*8930	*8930	*7030	5230	4720	2700
(-10.0 ft) lb			*19690	*19690	*15500	11530	10410	5950
-4.5 m kg			*3750	*3750				
(-15.0 ft) lb			*8270	*8270				

Boom : 4.6 m (15' 1") / Arm : 3.0 m (9' 10") / Bucket : 0.52 m³ (0.68 yd) SAE heaped / Shoe : 500mm(20") triple grouser with 2,800kg (6,170 lb) counterweight

Load point height m (ft)	Load radius						At max. reach	
	1.5 m (5.0 ft)	3.0 m (10.0 ft)	4.5 m (15.0 ft)	6.0 m (20.0 ft)	7.5 m (25.0 ft)	Capacity	Reach	m (ft)
6.0 m (20.0 ft) kg			*2560	*2560	*1730	*1730	2570	1560
4.5 m kg			*5640	*5640	*3810	*3810	5670	3440
(15.0 ft) lb			*2760	*2760	*2550	2110	2090	1220
3.0m kg			*6080	*6080	*5620	4650	4610	2690
(10.0 ft) lb			*3690	*3690	*3210	2020	*1430	1280
1.5 m kg			*8140	*8140	*7080	4450	*3150	2820
(5.0 ft) lb			*7740	5950	*5030	3070	3170	1890
Ground Line			*17060	13120	*11090	6770	6990	4170
kg lb							3950	2180
-1.5 m kg			*9180	5360	4850	2820	3040	1770
(-5.0 ft) lb			*20240	11820	10690	6220	6700	3900
-3.0 m kg			*5380	*5380	*8930	5160	4700	2680
(-10.0 ft) lb			*11860	*11860	*19690	11380	10360	5910
-4.5 m kg			*7860	*7860	*7790	5170	4670	2650
(-15.0 ft) lb			*17330	*17330	*17170	11400	10300	5840

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-9 (DOZER TYPE)

Boom : 4.6 m (15' 1") / Arm : 1.9 m (6' 3") / Bucket : 0.52 m³ (0.68 yd) SAE heaped / Shoe : 500mm(20") triple grouser with 2,800kg (6,170 lb) counterweight

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