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 slidable 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)

* 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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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

We build a better future

Robex 145CR-9

With Tier 3 Engine installed

*Photo may include optional equipment.

HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

Courtesy of Machine.Market

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!

*Photo may include optional equipment.

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.

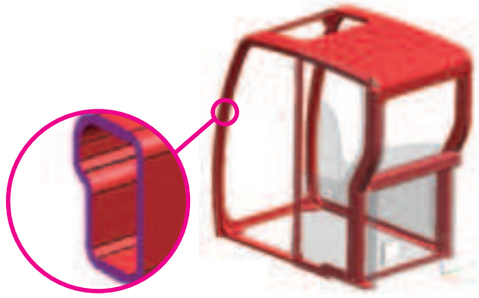
Performance

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

*Photo may include optional equipment.

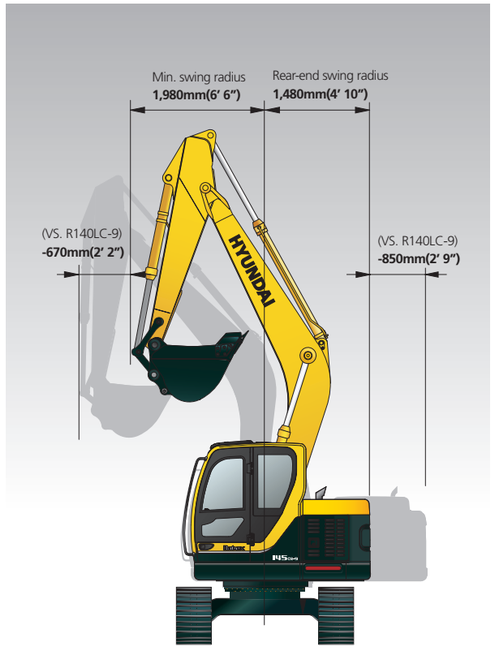
Track Rail Guard & Adjusters

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

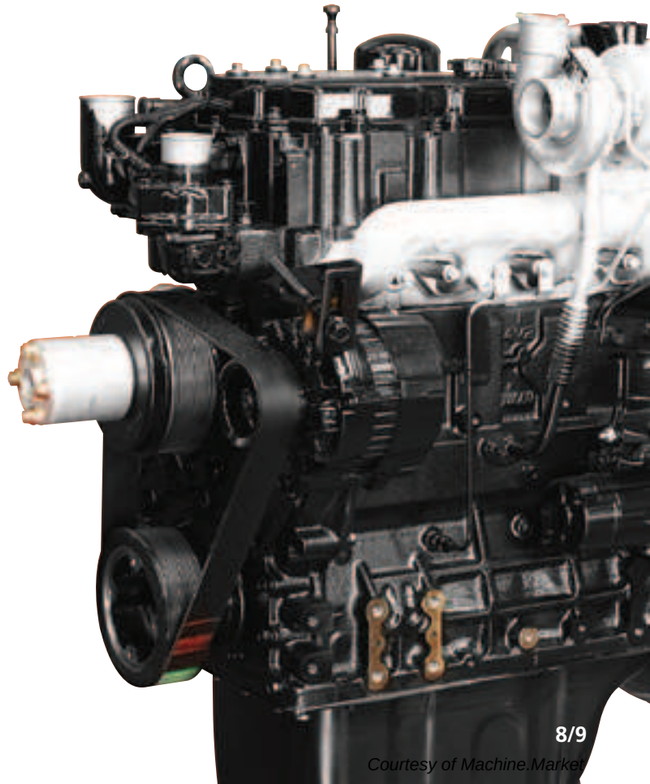
R145CR-9's short (1,480mm) tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This Compact radius design provides easy and efficient operation in any limited space work environment.

Mitsubishi D04FD-TAA

The Tier III, four cylinder, 4 cycle, turbo-charged, 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 durabilty. 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.

*Photo may include optional equipment.

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)

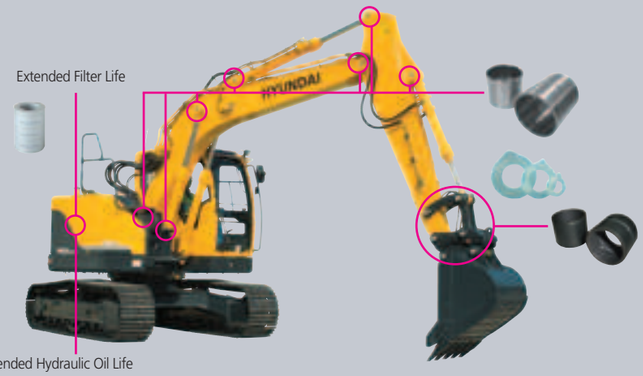
Hi-mate, Hyundai's proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access. Users can pinpoint machine location using digital mapping and set machine work boundaries, 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.

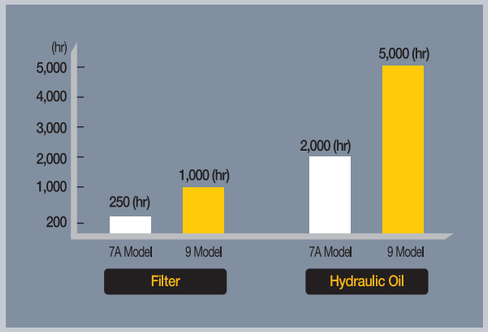
Easy Access

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)	119 HP (89 kW)/ 2,000 rpm
		J1349 (net)	113 HP (85 kW)/ 2,000 rpm
	DIN	6271/1 (gross)	121 PS (89 kW)/ 2,000 rpm
		6271/1 (net)	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 in³)
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/cm² (4,980 psi)
Travel	350 kgf/cm² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,410 psi)
Swing circuit	285 kgf/cm² (4,050 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: 105 X 1,105 mm (4.1" X 43.5")
	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	R145CR-9	45EA	R145LCR-9	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 0.52m³ (0.68 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

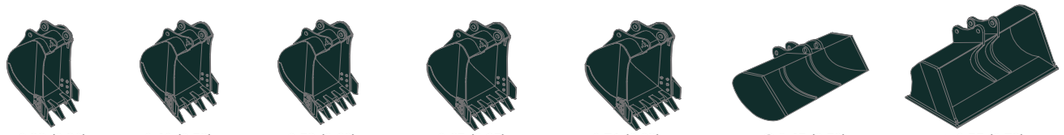
MAJOR COMPONENT WEIGHT	
Upperstructure	6,950 kg (15,320 lb)
Counterweight	2,800 kg (6,170 lb)
4.6m (15' 1")mono boom(with arm cylinder)	1,030 kg (2,270 lb)

OPERATING WEIGHT

Shoes			Operating weight	Ground pressure
Type	Width mm(in)		kg(lb)	kgf/cm²(psi)
Triple grouser	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.



SAE heaped m³ (yd³)	0.23 (0.30)	0.40 (0.52) 0.46 (0.60)	0.52 (0.68) 0.58 (0.76)	0.65 (0.85)	0.71 (0.93)	◉0.45 (0.59)	★ 0.55 (0.72)

Capacity m³ (yd³)		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 /m³ (3,370 lb/ yd³) or less
■ : Applicable for materials with density of 1,600 kg /m³ (2,700 lb/ yd³) or less
▲ : Applicable for materials with density of 1,100 kg /m³ (1,850 lb/ yd³) or less

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.

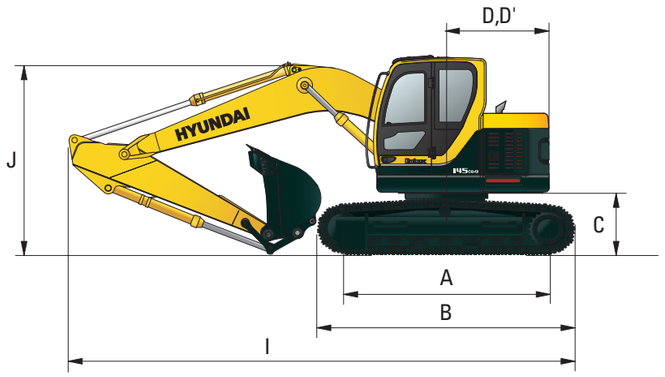
DIGGING FORCE

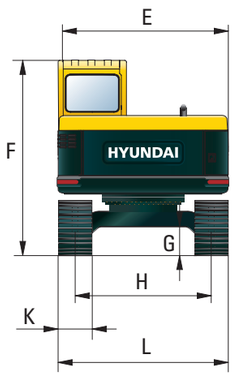
Boom	Length	mm (ft·in)	4,600 (15' 1")				Remarks
	Weight	kg (lb)	1,030 (2,270)				
Arm	Length	mm (ft·in)	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")	
	Weight	kg (lb)	560 (1,230)	580 (1,280)	610 (1,340)	670 (1,480)	
Bucket digging force	SAE	kN	87.3[94.8]	87.3[94.8]	87.3[94.8]	87.3[94.8]	[ ]: 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-9 DIMENSIONS





mm (ft·in)

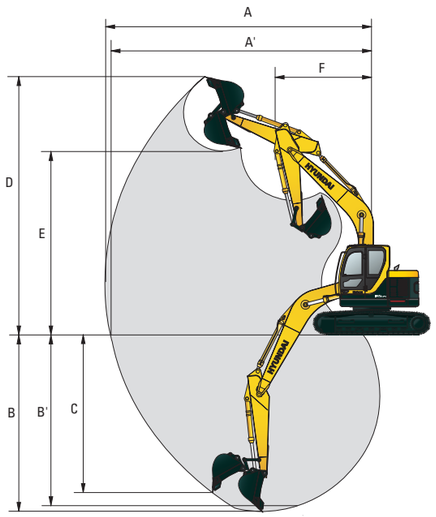
A	Tumbler distance	2,910 (9' 7")
B	Overall length of crawler	3,640 (11' 11")
C	Ground clearance of counterweight	930 (3' 1")
D	Tail swing radius	1,480 (4' 10")
D'	Rear-end length	1,480 (4' 10")
E	Overall width of upperstructure	2,500 (8' 2")
F	Overall height of cab	2,900 (9' 6")
G	Min. ground clearance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

	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-9 WORKING RANGE

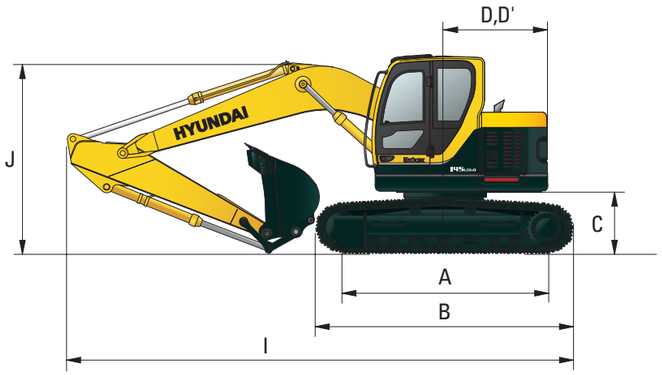
mm (ft·in)

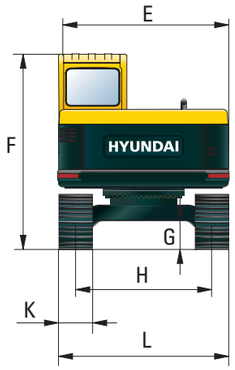


	Boom length	4,600(15' 1")			
	Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")
A	Max. digging reach	7,730 (25' 4")	7,900 (25' 11")	8,310 (27' 3")	8,770 (28' 9")
A'	Max. digging reach on ground	7,580 (24' 10")	7,750 (25' 0")	8,170 (26' 10")	8,630 (28' 4")
B	Max. digging depth	4,890 (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-9 DIMENSIONS





mm (ft·in)

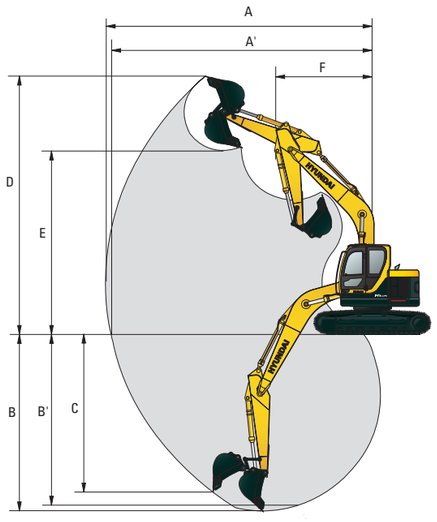
A	Tumbler distance	3,090 (10' 2")
B	Overall length of crawler	3,820 (12' 6")
C	Ground clearance of counterweight	930 (3' 1")
D	Tail swing radius	1,480 (4' 10")
D'	Rear-end length	1,480 (4' 10")
E	Overall width of upperstructure	2,500 (8' 2")
F	Overall height of cab	2,900 (9' 6")
G	Min. ground clearance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

	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-9 WORKING RANGE

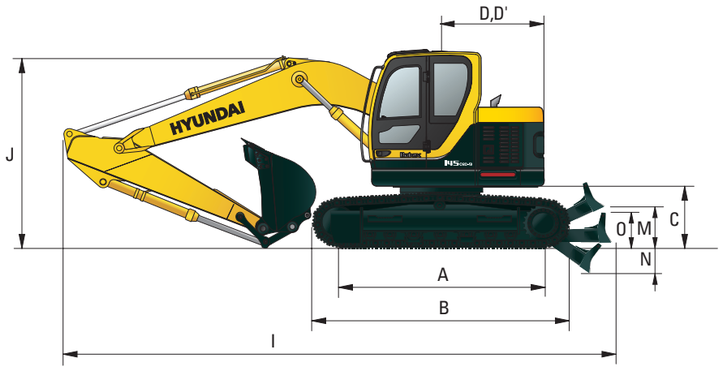
mm (ft·in)

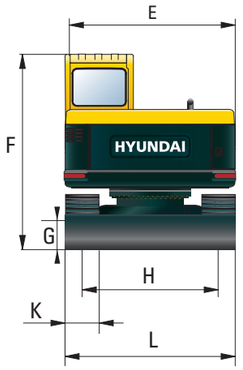


	Boom length	4,600(15' 1")			
	Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")
A	Max. digging reach	7,730 (25' 4")	7,900 (25' 11")	8,310 (27' 3")	8,770 (28' 9")
A'	Max. digging reach on ground	7,580 (24' 10")	7,750 (25' 0")	8,170 (26' 10")	8,630 (28' 4")
B	Max. digging depth	4,890 (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-9 (DOZER TYPE) DIMENSIONS





mm (ft·in)

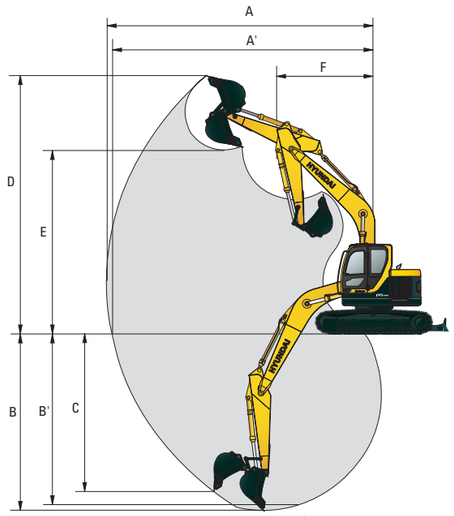
A	Tumbler distance	2,910 (9′ 7″)
B	Overall length of crawler	3,640 (11′ 11″)
C	Ground clearance of counterweight	930 (3′ 1″)
D	Tail swing radius	1,480 (4′ 10″)
D′	Rear-end length	1,480 (4′ 10″)
E	Overall width of upperstructure	2,500 (8′ 2″)
F	Overall height of cab	2,900 (9′ 6″)
G	Min. ground clearance	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-9 (DOZER TYPE) WORKING RANGE

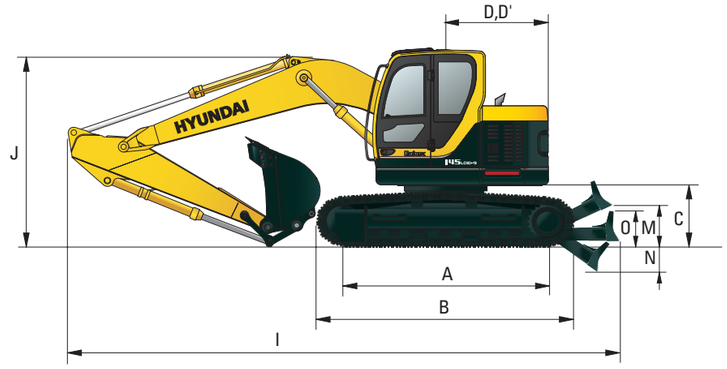
mm (ft·in)

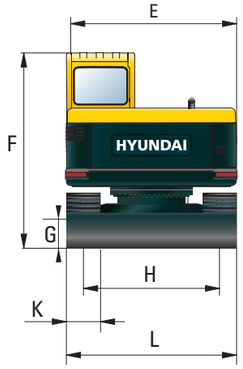


	Boom length	4,600(15′ 1″)			
	Arm length	1,900 (6′ 3″)	2,100 (6′ 11″)	2,500 (8′ 2″)	3,000 (9′ 10″)
A	Max. digging reach	7,730 (25′ 4″)	7,900 (25′ 11″)	8,310 (27′ 3″)	8,770 (28′ 9″)
A′	Max. digging reach on ground	7,580 (24′ 10″)	7,750 (25′ 0″)	8,170 (26′ 10″)	8,630 (28′ 4″)
B	Max. digging depth	4,890 (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-9 (DOZER TYPE) DIMENSIONS





mm (ft·in)

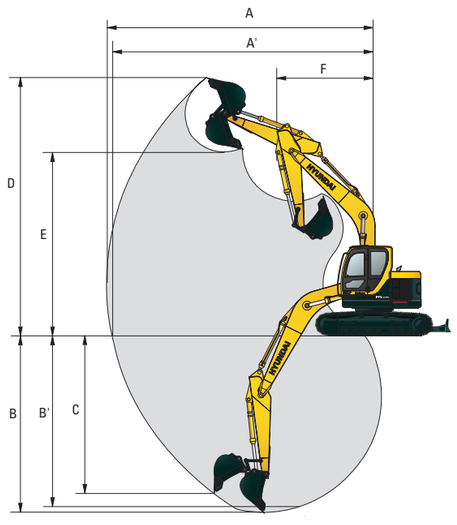
A	Tumbler distance	3,090 (10′ 2″)
B	Overall length of crawler	3,820 (12′ 6″)
C	Ground clearance of counterweight	930 (3′ 1″)
D	Tail swing radius	1,480 (4′ 10″)
D′	Rear-end length	1,480 (4′ 10″)
E	Overall width of upperstructure	2,500 (8′ 2″)
F	Overall height of cab	2,900 (9′ 6″)
G	Min. ground clearance	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-9 (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″)

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 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	kg					*3270	*3270			3360	2130	5.75
(20.0 ft)	lb					*7210	*7210			7410	4700	(18.9)
4.5 m	kg			*4960	*4960	*4310	3250			2500	1550	6.73
(15.0 ft)	lb			*10930	*10930	*9500	7170			5510	3420	(22.1)
3.0m	kg			*7230	5970	4900	3050	2980	1850	2170	1310	7.22
(10.0 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
(5.0 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
(-5.0 ft)	lb	*15060	*15060	*17950	10960	9630	5690			5640	3400	(21.0)
-3.0 m	kg			*6010	5100	*4100	2650			*2250	*2250	5.12
(-10.0 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 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	kg					*3440	3330			3160	2000	5.98
(20.0 ft)	lb					*7580	7340			6970	4410	(19.6)
4.5 m	kg			*4390	*4390	*4140	3270	*2560	1910	2390	1470	6.92
(15.0 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
(10.0 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
(5.0 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
(-5.0 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
(-10.0 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 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	kg					*2960	*2960			2710	1700	6.50
(20.0 ft)	lb					*6530	*6530			5970	3750	(21.3)
4.5 m	kg					*3460	3310	*2670	1930	2120	1280	7.37
(15.0 ft)	lb					*7630	7300	*5890	4250	4670	2820	(24.2)
3.0m	kg			*6090	*6090	*4480	3090	2990	1850	1870	1090	7.81
(10.0 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
(5.0 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
(-5.0 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
(-10.0 ft)	lb	*19690	*19690	*15500	10800	9480	5530			*5290	3750	(19.6)
-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 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	kg					*2560	*2560	*1730	*1730			2350	1450	7.07
(20.0 ft)	lb					*5640	*5640	*3810	*3810			5180	3200	(23.2)
4.5 m	kg					*2760	*2760	*2550	1980			1890	1120	7.86
(15.0 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
(10.0 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
(5.0 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
(-5.0 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
(-10.0 ft)	lb	*17330	*17330	*17170	10650	9370	5420	5910	3440			5250	3090	(21.6)
-4.5 m	kg	*8050	*8050	*5160	5020	*3260	2580							
(-15.0 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-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 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	kg					*3270	*3270			3710	2160	5.75
(20.0 ft)	lb					*7210	*7210			8180	4760	(18.9)
4.5 m	kg			*4960	*4960	*4310	3290			2770	1570	6.73
(15.0 ft)	lb			*10930	*10930	*9500	7250			6110	3460	(22.1)
3.0m	kg			*7230	6040	*5000	3090	3310	1870	2410	1330	7.22
(10.0 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
(5.0 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
(-5.0 ft)	lb	*15060	*15060	*17950	11090	10800	5780			6280	3440	(21.0)
-3.0 m	kg			*6010	5170	*4100	2690			*2250	*2250	5.12
(-10.0 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 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	kg					*3440	3370			3490	2030	5.98
(20.0 ft)	lb					*7580	7430			7690	4480	(19.6)
4.5 m	kg			*4390	*4390	*4140	3310	*2560	1940	2650	1490	6.92
(15.0 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
(10.0 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
(5.0 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
(-5.0 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
(-10.0 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 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	kg					*2960	*2960			*2910	1720	6.50
(20.0 ft)	lb					*6530	*6530			*6420	3790	(21.3)
4.5 m	kg					*3460	3350	*2670	1960	2360	1300	7.37
(15.0 ft)	lb					*7630	7390	*5890	4320	5200	2870	(24.2)
3.0m	kg			*6090	*6090	*4480	3130	3320	1880	2080	1110	7.81
(10.0 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
(5.0 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
(-5.0 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
(-10.0 ft)	lb	*19690	*19690	*15500	10960	*10520	5620			*5290	3810	(19.6)
-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 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	kg					*2560	*2560	*1730	*1730			*2600	1470	7.07
(20.0 ft)	lb					*5640	*5640	*3810	*3810			*5730	3240	(23.2)
4.5 m	kg					*2760	*2760	*2550	2000			2100	1140	7.86
(15.0 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
(10.0 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
(5.0 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
(-5.0 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
(-10.0 ft)	lb	*17330	*17330	*17170	10800	10540	5510	6610	3510			*5420	3130	(21.6)
-4.5 m	kg	*8050	*8050	*5160	5080	*3260	2620							
(-15.0 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-9 (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 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	kg					*3270	*3270			3660	2270	5.75
(20.0 ft)	lb					*7210	*7210			8070	5000	(18.9)
4.5 m	kg			*4960	*4960	*4310	3440			2750	1660	6.73
(15.0 ft)	lb			*10930	*10930	*9500	7580			6060	3660	(22.1)
3.0m	kg			*7230	6310	*5000	3240	3260	1980	2390	1410	7.22
(10.0 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
(5.0 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
(-5.0 ft)	lb	*15060	*15060	*17950	11680	10560	6110			6220	3660	(21.0)
-3.0 m	kg			*6010	5440	*4100	2840			*2250	*2250	5.12
(-10.0 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 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	kg					*3440	*3440			3440	2130	5.98
(20.0 ft)	lb					*7580	*7580			7580	4700	(19.6)
4.5 m	kg			*4390	*4390	*4140	3460	*2560	2040	2620	1580	6.92
(15.0 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
(10.0 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
(5.0 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
(-5.0 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
(-10.0 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 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	kg					*2960	*2960			*2910	1820	6.50
(20.0 ft)	lb					*6530	*6530			*6420	4010	(21.3)
4.5 m	kg					*3460	*3460	*2670	2060	2340	1380	7.37
(15.0 ft)	lb					*7630	*7630	*5890	4540	5160	3040	(24.2)
3.0m	kg			*6090	*6090	*4480	3280	3270	1980	2070	1190	7.81
(10.0 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
(5.0 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
(-5.0 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
(-10.0 ft)	lb	*19690	*19690	*15500	11530	10410	5950			*5290	4030	(19.6)
-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 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	kg					*2560	*2560	*1730	*1730			2570	1560	7.07
(20.0 ft)	lb					*5640	*5640	*3810	*3810			5670	3440	(23.2)
4.5 m	kg					*2760	*2760	*2550	2110			2090	1220	7.86
(15.0 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
(10.0 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
(5.0 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
(-5.0 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
(-10.0 ft)	lb	*17330	*17330	*17170	11400	10300	5840	6530	3730			*5420	3350	(21.6)
-4.5 m	kg	*8050	*8050	*5160	*5160	*3260	2770							
(-15.0 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-9 (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 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	kg					*3270	*3270			*3720	2300	5.75
(20.0 ft)	lb					*7210	*7210			*8200	5070	(18.9)
4.5 m	kg			*4960	*4960	*4310	3480			2960	1680	6.73
(15.0 ft)	lb			*10930	*10930	*9500	7670			6530	3700	(22.1)
3.0m	kg			*7230	6370	*5000	3280	3530	2000	2580	1430	7.22
(10.0 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
(5.0 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
(-5.0 ft)	lb	*15060	*15060	*17950	11840	11550	6190			6720	3700	(21.0)
-3.0 m	kg			*6010	5510	*4100	2880			*2250	*2250	5.12
(-10.0 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 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	kg					*3440	*3440			*3550	2160	5.98
(20.0 ft)	lb					*7580	*7580			*7830	4760	(19.6)
4.5 m	kg			*4390	*4390	*4140	3500	*2560	2070	2830	1600	6.92
(15.0 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
(10.0 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
(5.0 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
(-5.0 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
(-10.0 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 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	kg					*2960	*2960			*2910	1840	6.50
(20.0 ft)	lb					*6530	*6530			*6420	4060	(21.3)
4.5 m	kg					*3460	*3460	*2670	2090	2530	1400	7.37
(15.0 ft)	lb					*7630	*7630	*5890	4610	5580	3090	(24.2)
3.0m	kg			*6090	*6090	*4480	3320	3540	2010	2240	1210	7.81
(10.0 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
(5.0 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
(-5.0 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
(-10.0 ft)	lb	*19690	*19690	*15500	11680	*10520	6040			*5290	4100	(19.6)
-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 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	kg					*2560	*2560	*1730	*1730			*2600	1580	7.07
(20.0 ft)	lb					*5640	*5640	*3810	*3810			*5730	3480	(23.2)
4.5 m	kg					*2760	*2760	*2550	2140			2260	1240	7.86
(15.0 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
(10.0 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
(5.0 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
(-5.0 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
(-10.0 ft)	lb	*17330	*17330	*17170	11550	11290	5930	7100	3790			*5420	3400	(21.6)
-4.5 m	kg	*8050	*8050	*5160	*5160	*3260	2810							
(-15.0 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.