STANDARD EQUIPMENT

- ISO Standard cabin
  - All-weather steel cab with 360° visibility
  - Safety glass windows
  - Rise-up type windshield wiper
  - Sliding fold-in front window
  - Sliding side window(LH)
  - Lockable door
  - Hot & cool box
  - Storage compartment & Ashtray
  - Radio & USB player
  - Cabin roof-steel cover
  - 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
  - Overload
  - Communication error
  - Low battery
  - Air cleaner clogging
  - Indicators
  - Max power
  - Low speed/High speed
  - Fuel warmer
  - Auto idle
- Door and cab locks, one key
- Two outside rearview mirrors
- Fully adjustable suspension seat with seat belt
- Pilot-operated slidable joystick
- Four front working lights
- Electric horn
- Batteries (2 x 12V x 80 AH)
- Battery master switch
- Removable clean-out dust net for cooler
- Automatic swing brake
- Removable reservoir tank
- Fuel pre-filter
- Boom holding system
- Arm holding system
- Track shoes (600mm, 24")
- Track rail guard
- Accumulator for lowering work equipment
- Electric transducer
- Lower frame under cover (Normal)

OPTIONAL EQUIPMENT

- Fuel filler pump (35 L/min)
- Beacon lamp
- Single-acting piping kit (breaker, etc.)
- Double-acting piping kit (clamshell, etc.)
- Quick coupler
- Travel alarm
- Booms
  - 4.1m, 13' 5"
  - 4.6m, 15' 1"
- Arms
  - 1.9m, 6' 3"
  - 2.1m, 6'11"
  - 2.5m, 8' 2"
  - 3.0m, 9' 10"
- Climate control
  - Air conditioner only
  - Heater only
- Cabin FOPS / FOG (ISO / DIS 10262 Level II)
  - FOPS (Falling Object Protective Structure)
  - FOG (Falling Object Guard)
- Cabin guard-Front
  - Wire net
  - Fine net
- Cabin lights
- Cabin front window rain guard
- Sun visor
- Track shoes
  - Triple grousers shoe (500mm, 20"), R140LCD-9S
  - Triple grousers shoe (700mm, 28")
  - Triple grousers shoe (800mm, 32"), R140LCM-9S
  - Double grousers shoe (710mm, 28"), R140LCM-9S
  - Single grousers shoe (960mm, 38"), R140LCM-9S
  - Full track rail guard
- R140LCD-9S Blade : 550mm(1' 8") x 2,500mm(8' 2")
  550mm(1' 8") x 2,600mm(8' 6")
- Pre-heating system, coolant
- Lower frame under cover (Additional)
- Tool kit
- Operator suit
- Rearview camera
- Seat
  - Mechanical suspension seat with heater
- Hi-mate (Remote Management System)
- Fuel warmer
- Air compressor
- Safety lock valve for Boom cylinder
- Safety lock valve for Arm cylinder

* 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
1000 BANGEOJINSUNHWAN-DORO, DONG-GU, ULSAN, 682-792, KOREA
TEL:(82)52-202-7722, 9807 FAX:(82)52-202-7720

999009-500870

We build a better future

Robex 140LC-9S

With Tier 2 Engine installed

*Photo may include optional equipment.

HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

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 140LC-9S

*Photo may include optional equipment.

Machine Walk-Around

Engine Technology

Proven / reliable, fuel efficient Cummins Tier II B3.9-C engine
Low noise / Auto engine warm up feature / Anti-restart feature

Hydraulic System Improvements

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

Pump Compartment

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

Enhanced Operator Cab

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

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

Improved Suspension Seat / Console Assembly
Ergonomic joysticks with auxiliary control buttons for attachment use. Now with new sleek styling
Adjustable arm rests - turn dial to raise or lower for optimum comfort

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

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

Undercarriage

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

Preference

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

*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 9S Series cabin you can easily adjust the seat, console and armrest settings to best suit your personal operating preferences. Seat and console position can be set together and independent from each other. Other preference settings that add to overall operator comfort include the fully automatic high capacity airconditioning system and the radio / USB player.

Reduced Stress

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

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 9S series excavator fast, smooth and easy to control.

*Photo may include optional equipment.

Computer Aided Power

The engine horsepower and hydraulic horsepower together in unison through the advanced CAPO(Computer Aided Power Optimization) system, flow for the job at hand. Operator can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button.
The CAPO system also provides complete self diagnostic features and digital gauges for important information like hydraulic oil temperature, water temperatures and fuel level. This system interfaces with multiple sensors placed throughout the hydraulic system as well as 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 based on load demand. Three unique power modes provide the operator with custom power, speed and fuel economy.

Work Mode

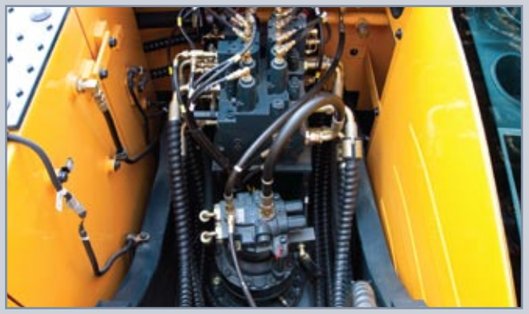
The work mode allows the operator to select single flow attachments like a hydraulic breaker or bi-directional flow attachments like a crusher. Flow settings unique to each attachment can be programmed from within the cluster.

User Mode

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

Improved Hydraulic System

To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption.
Improved spool valves in the control valve are engineered to provide more precise flow to each function with less effort.
Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9S Series look like a smooth operator. Newly improved features include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance in any application.



Auto Boom-swing Priority

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

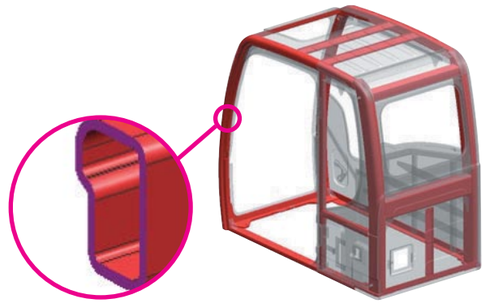
Performance

9S 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

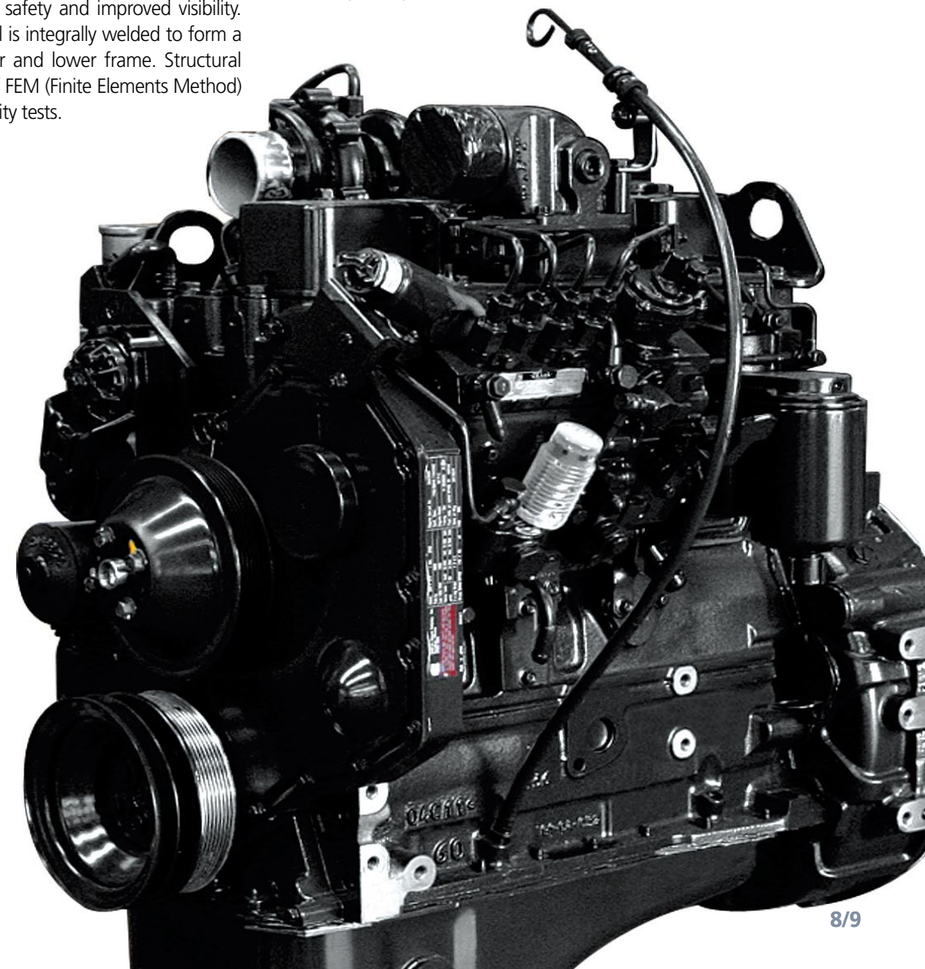
The 9S series cabin structure has been fitted with stronger but slimmer tubing for more safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis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

CUMMINS B3.9C ENGINE

The 4 cylinders, turbo-charged, 4 cycle, charger air cooled engine is built for power, reliability, economy and low emissions.

A More Reliable Way To Reach Your Dream.

The Cummins B3.9-C engine has been designed with 40% fewer parts than the competition. That means there's less that can go wrong when you need it most. It also means fewer parts to inventory. Repairs are simplified because no special tools are needed for maintenance. The weight of the machine is reduced without sacrificing strength.



Profitability

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

*Photo may include optional equipment.

Fuel Efficiency

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

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 9S series.

Extended Life Components

9S series excavators were designed with bushings designed for extended lube intervals (250hrs) & 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 downtime.

Specifications

ENGINE

MODEL			CUMMINS B3.9-C
Type			Water cooled, 4 cycle Diesel, 4-cylinders in line, direct injection, turbocharged, charger air cooled, low emission
Rated flywheel horse power	SAE	J1995 (gross)	113 HP (84kW) at 2,100 rpm
		J1349 (net)	105 HP (78 kW) at 2,100 rpm
	DIN	6271/1 (gross)	115 PS (84 kW) at 2,100 rpm
		6271/1 (net)	106 PS (78 kW) at 2,100 rpm
Max. torque			45.6 kgf·m (330lbf·ft) / 1,500 rpm
Bore X stroke			102 mm X 120 mm (4.02" X 4.72")
Piston displacement			3,900cc (238 in^3)
Batteries			2 X 12V X 80AH
Starting motor			24V, 4.5 kW
Alternator			24V, 70 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem-axis piston pumps
Rated flow	2 X 126.8L /min (33.5 US gpm / 27.9 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 (4,978 psi)
Travel	350 kgf/cm^2 (4,978 psi)
Power boost (boom, arm, bucket)	380 kgf/cm^2 (5,404 psi)
Swing circuit	285 kgf/cm^2 (4,054 psi)
Pilot circuit	40 kgf/cm^2 (568 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: 2-105 X 1,075 mm(4.1"X 42.3")
	Arm: 1-115 X 1,138 mm (4.5" X 44.8")
	Bucket: 1-100 X 840 mm (3.9" X 32.6")
	Blade: 2-100 X 250 mm (3.9" X 9.8")

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 (29,320 lbf)
Max. travel speed(high) / (low)	5.6 km/hr (3.5 mph) / 3.6 km/hr (2.2 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket(ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

SWING SYSTEM

Swing motor	Fixed displacement axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	13 rpm

COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	270.0	71.3	59.4
Engine coolant	15.5	4.1	3.4
Engine oil	15.3	4.0	3.4
Swing device-gear oil	2.5	0.66	0.55
Final drive(each)-gear oil	2.2	0.60	0.50
Hydraulic system(including tank)	210.0	55.5	46.2
Hydraulic tank	124.0	32.8	27.3

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.

	R140LC-9S / R140LCD-9S	R140LCM-9S
Center frame	X - leg type	
Track frame	Pentagonal box type	
No. of shoes on each side	47 EA	47 EA
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	1 EA	2 EA

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 4,600mm (15' 1") boom, 2,500mm (8' 2") arm, SAE heaped 0.58m^3 (0.76 yd^3) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

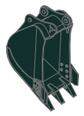
MAJOR COMPONENT WEIGHT	
Upperstructure	3,820 kg (8,422 lb)
Boom (with arm cylinder)	1,030 kg (2,270 lb)

OPERATING WEIGHT				
Shoes		Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)		kgf/cm^2 (psi)
Triple grouser	500 mm (20")	R140LC-9S	13,790 (30,400)	0.43 (6.11)
		R140LCD-9S	14,590 (32,160)	0.45 (6.40)
	600 mm (24")	R140LC-9S	13,980 (30,820)	0.36 (5.12)
		R140LCD-9S	14,800 (32,630)	0.38 (5.40)
	700 mm (28")	R140LC-9S	14,210 (31,330)	0.32 (4.55)
	800 mm (32")	R140LCM-9S	16,880 (37,210)	0.32 (4.55)
Double grouser	710 mm (28")	R140LCM-9S	16,880 (37,210)	0.36 (5.12)
Single grouser	960 mm (38")	R140LCM-9S	17,080 (37,655)	0.27 (3.84)

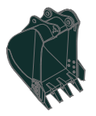
BUCKETS

All buckets are welded with high-strength steel.

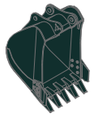
SAE heaped m^3 (yd^3)



0.23 (0.30)

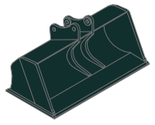


0.40 (0.52)
0.46 (0.60)



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 m^3 (yd^3)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft·in)					
					4,600 (15' 1") Boom				4,100 (13' 5") Boom	
SAE heaped	CECE heaped	Without side cutters	With side cutters		1,900 (6' 3") Arm	2,100 (6' 11") Arm	2,500 (8' 2") Arm	3,000 (9' 10") Arm	1,900 (6' 3") Arm	2,100 (6' 11") Arm
0.23 (0.30)	0.20(0.26)	520(20.5)	620(24.4)	335(740)	●	●	●	■	●	●
0.40 (0.52)	0.35(0.46)	760(29.9)	860(33.9)	410(900)	●	●	●	■	●	●
0.46 (0.60)	0.40(0.52)	850(33.5)	950(37.4)	435(960)	●	●	●	▲	●	●
0.52 (0.68)	0.45(0.59)	935(36.8)	1,035(40.8)	460(1,010)	●	●	●	–	●	●
0.58 (0.76)	0.50(0.65)	1,030(40.6)	1,130(44.5)	480(1,060)	●	●	■	–	●	●
0.65 (0.85)	0.55(0.72)	1,110(43.7)	1,210(47.6)	500(1,100)	■	■	▲	–	●	■
0.71 (0.93)	0.60(0.78)	1,205(47.4)	-	540(1,190)	▲	▲	–	–	■	▲
◈ 0.45 (0.59)	0.40(0.52)	1,520(59.8)	-	410(900)	●	●	■	–	●	●
▣ 0.55 (0.72)	0.45(0.59)	1,800(70.9)	-	585(1,290)	■	■	▲	–	●	●

◈ Ditching bucket
▣ Slope finishing bucket

● : Applicable for materials with density of 2,000 kg /m^3 (3,370 lb/ yd^3) or less
■ : Applicable for materials with density of 1,600 kg /m^3 (2,700 lb/ yd^3) or less
▲ : Applicable for materials with density of 1,100 kg /m^3 (1,850 lb/ yd^3) or less

ATTACHMENT

Booms and arms are welded, a low-stress, full-box section design. 4.1m, 4.6m mono booms and 1.9m, 2.1m, 2.5m, 3.0m arms are available.

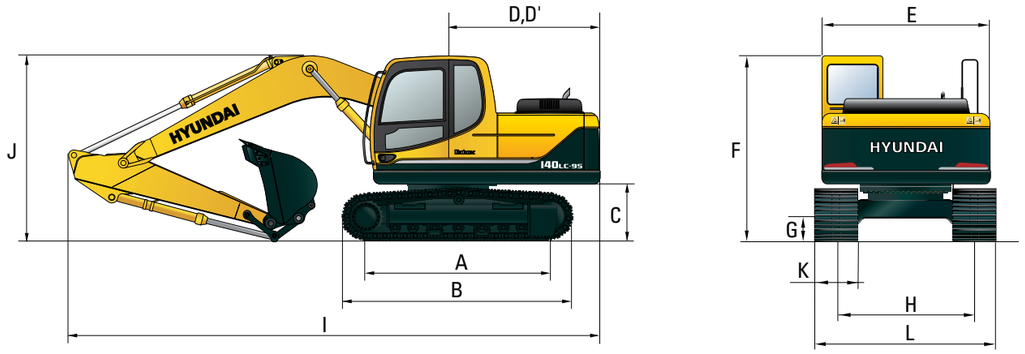
DIGGING FORCE

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

R140LC-9S DIMENSIONS



Unit : mm (ft · in)

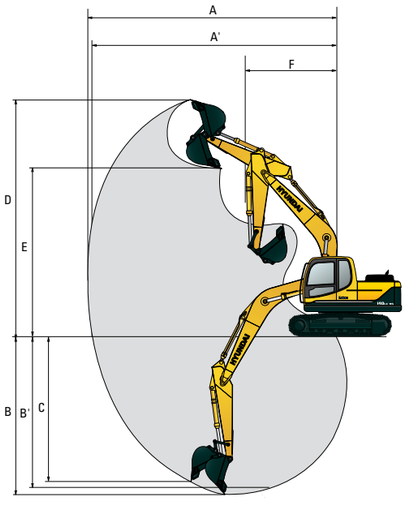
A	Tumbler distance	3,000 (9′ 10″)
B	Overall length of crawler	3,750 (12′ 4″)
C	Ground clearance of counterweight	940 (3′ 1″)
D	Tail swing radius	2,330 (7′ 7″)
D′	Rear-end length	2,330 (7′ 7″)
E	Overall width of upperstructure	2,500 (8′ 2″)
F	Overall height of cab	2,860 (9′ 4″)
G	Min. ground clearance	440 (1′ 5″)
H	Track gauge	2,000 (6′ 7″)

	Boom length	4,600 (15′ 1″)				4,100 (13′ 5″)	
	Arm length	1,900 (6′ 3″)	2,100 (6′ 11″)	2,500 (8′ 2″)	3,000 (9′ 10″)	1,900 (6′ 3″)	2,100 (6′ 11″)
I	Overall length	7,820 (25′ 7″)	7,850 (25′ 8″)	7,820 (25′ 7″)	7,790 (25′ 6″)	7,320 (24′ 0″)	7,350 (24′ 1″)
J	Overall height of boom	2,650 (8′ 7″)	2,760 (9′ 0″)	2,780 (9′ 1″)	3,110 (10′ 2″)	2,600 (8′ 5″)	2,790 (9′ 2″)

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″)

R140LC-9S WORKING RANGE

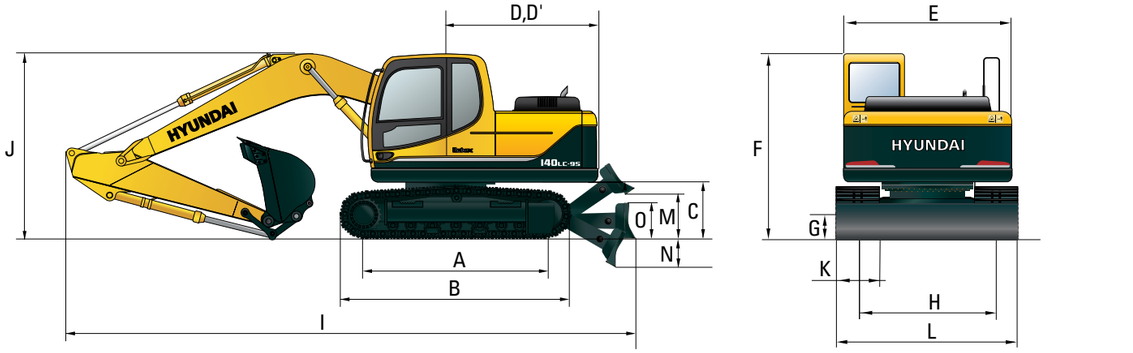
Unit : mm (ft · in)



	Boom length	4,600 (15′ 1″)				4,100 (13′ 5″)	
	Arm length	1,900 (6′ 3″)	2,100 (6′ 11″)	2,500 (8′ 2″)	3,000 (9′ 10″)	1,900 (6′ 3″)	2,100 (6′ 11″)
A	Max. digging reach	7,750 (25′ 5″)	7,920 (25′ 11″)	8,330 (27′ 4″)	8,790 (28′ 10″)	7,260 (23′ 10″)	7,420 (24′ 4″)
A′	Max. digging reach on ground	7,600 (24′ 11″)	7,770 (25′ 6″)	8,180 (26′ 10″)	8,650 (28′ 4″)	7,090 (23′ 3″)	7,260 (23′ 10″)
B	Max. digging depth	4,950 (16′ 2″)	5,150 (16′ 10″)	5,550 (18′ 3″)	6,050 (19′ 10″)	4,540 (14′ 11″)	4,740 (15′ 7″)
B′	Max. digging depth (8' level)	4,680 (15′ 4″)	4,900 (16′ 1″)	5,340 (17′ 6″)	5,870 (19′ 3″)	4,280 (14′ 1″)	4,490 (14′ 9″)
C	Max. vertical wall digging depth	4,650 (15′ 3″)	4,900 (16′ 1″)	5,330 (17′ 6″)	5,850 (19′ 2″)	4,240 (13′ 11″)	4,350 (14′ 3″)
D	Max. digging height	8,100 (26′ 7″)	8,180 (26′ 10″)	8,500 (27′ 11″)	8,780 (28′ 10″)	7,700 (25′ 3″)	7,770 (25′ 6″)
E	Max. dumping height	5,670 (18′ 7″)	5,750 (18′ 10″)	6,060 (19′ 11″)	6,330 (20′ 9″)	5,260 (17′ 3″)	5,340 (17′ 6″)
F	Min. swing radius	2,630 (8′ 8″)	2,670 (8′ 9″)	2,650 (8′ 8″)	2,680 (8′ 10″)	2,350 (7′ 9″)	2,460 (8′ 1″)

Dimensions & Working Range

R140LCD-9S DIMENSIONS



Unit : mm (ft · in)

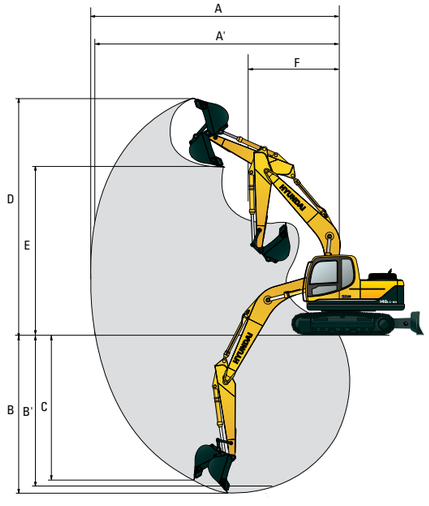
A	Tumbler distance	3,000 (9′ 10″)
B	Overall length of crawler	3,750 (12′ 4″)
C	Ground clearance of counterweight	940 (3′ 1″)
D	Tail swing radius	2,330 (7′ 7″)
D′	Rear-end length	2,330 (7′ 7″)
E	Overall width of upperstructure	2,500 (8′ 2″)
F	Overall height of cab	2,860 (9′ 4″)
G	Min. ground clearance	440 (1′ 5″)
H	Track gauge	2,000 (6′ 7″)
M	Ground clearance of blade up	560 (1′ 8″)
N	Depth of blade down	500 (1′ 6″)
O	Height of blade	550 (1′ 8″)
	Width of blade	2,500 (8′ 2″) 2,600 (8′ 6″)

	Boom length	4,600 (15′ 1″)				4,100 (13′ 5″)	
	Arm length	1,900 (6′ 3″)	2,100 (6′ 11″)	2,500 (8′ 2″)	3,000 (9′ 10″)	1,900 (6′ 3″)	2,100 (6′ 11″)
I	Overall length	8,130 (26′ 7″)	8,160 (26′ 7″)	8,130 (26′ 7″)	8,100 (26′ 6″)	7,630 (25′ 0″)	7,660 (25′ 1″)
J	Overall height of boom	2,650 (8′ 7″)	2,760 (9′ 0″)	2,780 (9′ 1″)	3,110 (10′ 2″)	2,600 (8′ 5″)	2,790 (9′ 2″)

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″)

R140LCD-9S WORKING RANGE

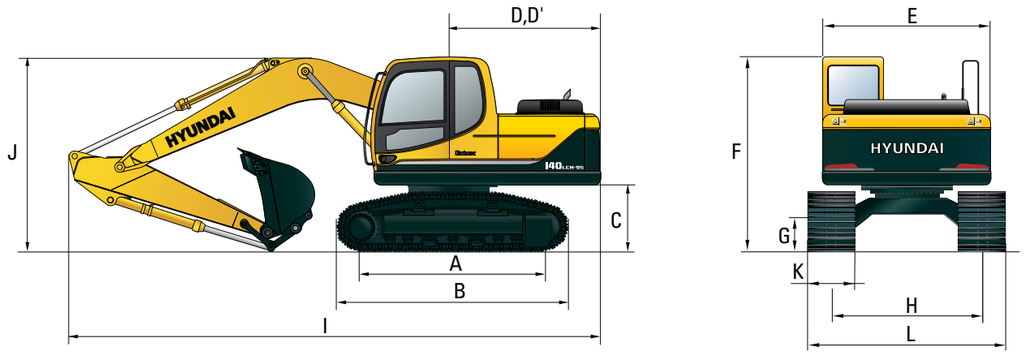
Unit : mm (ft · in)



	Boom length	4,600 (15′ 1″)				4,100 (13′ 5″)	
	Arm length	1,900 (6′ 3″)	2,100 (6′ 11″)	2,500 (8′ 2″)	3,000 (9′ 10″)	1,900 (6′ 3″)	2,100 (6′ 11″)
A	Max. digging reach	7,750 (25′ 5″)	7,920 (25′ 11″)	8,330 (27′ 4″)	8,790 (28′ 10″)	7,260 (23′ 10″)	7,420 (24′ 4″)
A′	Max. digging reach on ground	7,600 (24′ 11″)	7,770 (25′ 6″)	8,180 (26′ 10″)	8,650 (28′ 4″)	7,090 (23′ 3″)	7,260 (23′ 10″)
B	Max. digging depth	4,950 (16′ 2″)	5,150 (16′ 10″)	5,550 (18′ 3″)	6,050 (19′ 10″)	4,540 (14′ 11″)	4,740 (15′ 7″)
B′	Max. digging depth (8' level)	4,680 (15′ 4″)	4,900 (16′ 1″)	5,340 (17′ 6″)	5,870 (19′ 3″)	4,280 (14′ 1″)	4,490 (14′ 9″)
C	Max. vertical wall digging depth	4,650 (15′ 3″)	4,900 (16′ 1″)	5,330 (17′ 6″)	5,850 (19′ 2″)	4,240 (13′ 11″)	4,350 (14′ 3″)
D	Max. digging height	8,100 (26′ 7″)	8,180 (26′ 10″)	8,500 (27′ 11″)	8,780 (28′ 10″)	7,700 (25′ 3″)	7,770 (25′ 6″)
E	Max. dumping height	5,670 (18′ 7″)	5,750 (18′ 10″)	6,060 (19′ 11″)	6,330 (20′ 9″)	5,260 (17′ 3″)	5,340 (17′ 6″)
F	Min. swing radius	2,630 (8′ 8″)	2,670 (8′ 9″)	2,650 (8′ 8″)	2,680 (8′ 10″)	2,350 (7′ 9″)	2,460 (8′ 1″)

Dimensions & Working Range

R140LCM-9S DIMENSIONS



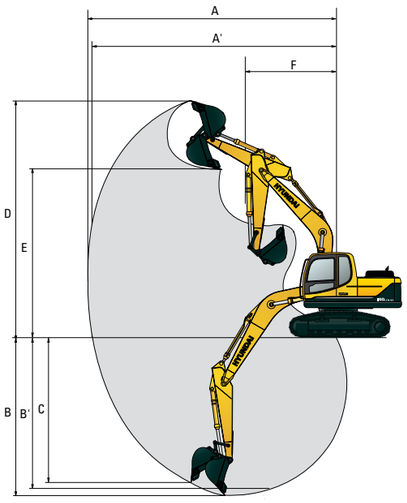
Unit : mm (ft · in)

A	Tumbler distance	3,030 (9′ 11″)
B	Overall length of crawler	3,860 (12′ 4″)
C	Ground clearance of counterweight	1,200 (3′ 9″)
D	Tail swing radius	2,330 (7′ 7″)
D′	Rear-end length	2,330 (7′ 7″)
E	Overall width of upperstructure	2,500 (8′ 2″)
F	Overall height of cab	3,120 (10′ 2″)
G	Min. ground clearance	600 (2′ 0″)
H	Track gauge	2,040 (6′ 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	7,770 (25′ 5″)	7,830 (25′ 7″)	7,790 (25′ 6″)	7,860 (25′ 8″)
J	Overall height of boom	2,750 (9′ 0″)	2,860 (9′ 4″)	2,830 (9′ 3″)	3,120 (10′ 2″)
K	Track shoe width	Type	Double grouser	Triple grouser	Single grouser
		Width	710 (28″)	800 (32″)	960 (38″)
L	Overall width		2,750 (9′ 0″)	2,840 (9′ 4″)	3,000 (9′ 10″)

R140LCM-9S WORKING RANGE

Unit : 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	7,750 (25′ 5″)	7,920 (25′ 11″)	8,330 (27′ 4″)	8,790 (28′ 10″)
A′	Max. digging reach on ground	7,540 (24′ 9″)	7,710 (25′ 4″)	8,110 (26′ 7″)	8,580 (28′ 2″)
B	Max. digging depth	4,690 (15′ 5″)	4,890 (16′ 1″)	5,290 (17′ 4″)	5,790 (19′ 0″)
B′	Max. digging depth (8' level)	4,420 (14′ 6″)	4,640 (15′ 3″)	5,080 (16′ 8″)	5,610 (18′ 5″)
C	Max. vertical wall digging depth	4,390 (14′ 5″)	4,640 (15′ 3″)	5,070 (16′ 8″)	5,590 (18′ 4″)
D	Max. digging height	8,360 (27′ 5″)	8,440 (27′ 8″)	8,760 (28′ 9″)	9,040 (29′ 7″)
E	Max. dumping height	5,930 (19′ 5″)	6,010 (19′ 8″)	6,320 (20′ 9″)	6,590 (21′ 7″)
F	Min. swing radius	2,630 (8′ 8″)	2,670 (8′ 9″)	2,650 (8′ 8″)	2,680 (8′ 10″)

Lifting Capacity

R140LC-9S

Rating over-front Rating over-side or 360 degree

Boom : 4.6 m (15′ 1″) / Arm : 1.9 m (6′ 3″) / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Shoe : 600mm(24″) triple grouser

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*3340	*3340			*3170	2350	5.95
(20 ft)	lb					*7360	*7360			*6990	5180	(19.5)
4.5 m	kg					*3550	*3550			2820	1760	6.90
(15 ft)	lb					*7830	*7830			6220	3880	(22.6)
3.0 m	kg			*6270	*6270	*4440	3510	3480	2170	2480	1520	7.37
(10 ft)	lb			*13820	*13820	*9790	7740	7670	4780	5470	3350	(24.2)
1.5 m	kg			*8490	6040	5400	3270	3380	2080	2390	1450	7.45
(5 ft)	lb			*18720	13320	11900	7210	7450	4590	5270	3200	(24.4)
Ground	kg			*8230	5790	5200	3100	3300	2000	2510	1520	7.17
Line	lb			*18140	12760	11460	6830	7280	4410	5530	3350	(23.5)
-1.5 m	kg	*6670	*6670	*9690	5800	5140	3050			2960	1810	6.48
(-5 ft)	lb	*14700	*14700	*21360	12790	11330	6720			6530	3990	(21.3)
-3.0 m	kg	*10970	*10970	*8330	5930	5220	3110			*3690	2670	5.15
(-10 ft)	lb	*24180	*24180	*18360	13070	11510	6860			*8140	5890	(16.9)

Boom : 4.6 m (15′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Shoe : 600mm(24″) triple grouser

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*3090	*3090			*3030	2210	6.17
(20 ft)	lb					*6810	*6810			*6680	4870	(20.2)
4.5 m	kg					*3340	*3340	*2900	2240	2700	1680	7.09
(15 ft)	lb					*7360	*7360	*6390	4940	5950	3700	(23.3)
3.0 m	kg			*5810	*5810	*4230	3530	3490	2170	2380	1450	7.54
(10 ft)	lb			*12810	*12810	*9330	7780	7690	4780	5250	3200	(24.7)
1.5 m	kg			*8760	6090	*5340	3270	3370	2070	2290	1380	7.62
(5 ft)	lb			*19310	13430	*11770	7210	7430	4560	5050	3040	(25.0)
Ground	kg			*8470	5770	5180	3080	3280	1980	2400	1440	7.35
Line	lb			*18670	12720	11420	6790	7230	4370	5290	3170	(24.1)
-1.5 m	kg	*6370	*6370	*9780	5740	5110	3010	3250	1950	2800	1700	6.68
(-5 ft)	lb	*14040	*14040	*21560	12650	11270	6640	7170	4300	6170	3750	(21.9)
-3.0 m	kg	*10300	*10300	*8590	5850	5160	3060			*3700	2430	5.41
(-10 ft)	lb	*22710	*22710	*18940	12900	11380	6750			*8160	5360	(17.7)

Boom : 4.6 m (15′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Shoe : 600mm(24″) triple grouser

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg									*2810	1920	6.69
(20 ft)	lb									*6190	4230	(21.9)
4.5 m	kg							*2770	2270	2440	1500	7.53
(15 ft)	lb							*6110	5000	5380	3310	(24.7)
3.0 m	kg			*4930	*4930	*3830	3570	*3380	2190	2170	1310	7.95
(10 ft)	lb			*10870	*10870	*8440	7870	*7450	4830	4780	2890	(26.1)
1.5 m	kg			*8030	6240	*5010	3300	3380	2070	2100	1250	8.03
(5 ft)	lb			*17700	13760	*11050	7280	7450	4560	4630	2760	(26.3)
Ground	kg			*8780	5800	5200	3090	3270	1970	2180	1300	7.77
Line	lb			*19360	12790	11460	6810	7210	4340	4810	2870	(25.5)
-1.5 m	kg	*5740	*5740	* 9910	5700	5080	2990	3220	1920	2500	1500	7.15
(-5 ft)	lb	*12650	*12650	*21850	12570	11200	6590	7100	4230	5510	3310	(23.5)
-3.0 m	kg	*8760	*8760	*9040	5770	5100	3000			3340	2030	6.01
(-10 ft)	lb	*19310	*19310	*19930	12720	11240	6610			7360	4480	(19.7)
-4.5 m	kg			*6590	6030							
(-15 ft)	lb			*14530	13290							

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

R140LCD-9S

Rating over-front Rating over-side or 360 degree

Boom : 4.6 m (15′ 1″) / Arm : 1.9 m (6′ 3″) / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Shoe : 600mm(24″) triple grouser

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*3340	*3340			*3170	2490	5.95
(20 ft)	lb					*7360	*7360			*6990	5490	(19.5)
4.5 m	kg					*3550	*3550			3070	1870	6.90
(15 ft)	lb					*7830	*7830			6770	4120	(22.6)
3.0 m	kg			*6270	*6270	*4440	3700	3780	2300	2710	1620	7.37
(10 ft)	lb			*13820	*13820	*9790	8160	8330	5070	5970	3570	(24.2)
1.5 m	kg			*8490	6380	*5520	3460	3680	2210	2610	1550	7.45
(5 ft)	lb			*18720	14070	*12170	7630	8110	4870	5750	3420	(24.4)
Ground	kg			*8230	6130	5650	3290	3590	2130	2750	1630	7.17
Line	lb			*18140	13510	12460	7250	7910	4700	6060	3590	(23.5)
-1.5 m	kg	*6670	*6670	*9690	6140	5590	3240			3230	1930	6.48
(-5 ft)	lb	*14700	*14700	*21360	13540	12320	7140			7120	4250	(21.3)
-3.0 m	kg	*10970	*10970	*8330	6270	*5520	3300			*3690	2830	5.15
(-10 ft)	lb	*24180	*24180	*18360	13820	*12170	7280			*8140	6240	(16.9)

Boom : 4.6 m (15′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Shoe : 600mm(24″) triple grouser

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*3090	*3090			*3030	2340	6.17
(20 ft)	lb					*6810	*6810			*6680	5160	(20.2)
4.5 m	kg					*3340	*3340	*2900	2370	2940	1790	7.09
(15 ft)	lb					*7360	*7360	*6390	5220	6480	3950	(23.3)
3.0 m	kg			*5810	*5810	*4230	3720	*3650	2310	2600	1550	7.54
(10 ft)	lb			*12810	*12810	*9330	8200	*8050	5090	5730	3420	(24.7)
1.5 m	kg			*8760	6430	*5340	3460	3670	2200	2510	1480	7.62
(5 ft)	lb			*19310	14180	*11770	7630	8090	4850	5530	3260	(25.0)
Ground	kg			*8470	6110	5630	3270	3580	2120	2630	1550	7.35
Line	lb			*18670	13470	12410	7210	7890	4670	5800	3420	(24.1)
-1.5 m	kg	*6370	*6370	*9780	6080	5550	3200	3550	2090	3060	1810	6.68
(-5 ft)	lb	*14040	*14040	*21560	13400	12240	7050	7830	4610	6750	3990	(21.9)
-3.0 m	kg	*10300	*10300	*8590	6190	5610	3250			*3700	2580	5.41
(-10 ft)	lb	*22710	*22710	*18940	13650	12370	7170			*8160	5690	(17.7)

Boom : 4.6 m (15′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Shoe : 600mm(24″) triple grouser

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg									*2810	2040	6.69
(20 ft)	lb									*6190	4500	(21.9)
4.5 m	kg							*2770	2410	2660	1600	7.53
(15 ft)	lb							*6110	5310	5860	3530	(24.7)
3.0 m	kg			*4930	*4930	*3830	3770	*3380	2320	2380	1400	7.95
(10 ft)	lb			*10870	*10870	*8440	8310	*7450	5110	5250	3090	(26.1)
1.5 m	kg			*8030	6580	*5010	3490	3680	2210	2300	1340	8.03
(5 ft)	lb			*17700	14510	*11050	7690	8110	4870	5070	2950	(26.3)
Ground	kg			*8780	6140	5640	3280	3570	2110	2400	1400	7.77
Line	lb			*19360	13540	12430	7230	7870	4650	5290	3090	(25.5)
-1.5 m	kg	*5740	*5740	* 9910	6040	5530	3180	3510	2060	2730	1610	7.15
(-5 ft)	lb	*12650	*12650	*21850	13320	12190	7010	7740	4540	6020	3550	(23.5)
-3.0 m	kg	*8760	*8760	*9040	6110	5550	3200			*3540	2170	6.01
(-10 ft)	lb	*19310	*19310	*19930	13470	12240	7050			*7800	4780	(19.7)
-4.5 m	kg			*6590	6370							
(-15 ft)	lb			*14530	14040							

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

R140LCM-9S

Rating over-front Rating over-side or 360 degree

Boom : 4.6 m (15′ 1″) / Arm : 1.9 m (6′ 3″) / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Shoe : 800mm(32″) triple grouser

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*3310	*3310			*3180	2610	6.16
(20 ft)	lb					*7300	*7300			*7010	5750	(20.2)
4.5 m	kg					*3670	*3670	*2830	2640	3200	2050	7.01
(15 ft)	lb					*8090	*8090	*6240	5820	7050	4520	(23.0)
3.0 m	kg			*6820	*6820	*4620	4090	*3860	2580	2880	1820	7.41
(10 ft)	lb			*15040	*15040	*10190	9020	*8510	5690	6350	4010	(24.3)
1.5 m	kg			*7800	7120	*5680	3850	3930	2480	2820	1770	7.43
(5 ft)	lb			*17200	15700	*12520	8490	8660	5470	6220	3900	(24.4)
Ground	kg			*8700	6940	6050	3700	3850	2410	3020	1890	7.09
Line	lb			*19180	15300	13340	8160	8490	5310	6660	4170	(23.3)
-1.5 m	kg	*7330	*7330	*9540	6960	6010	3670			3630	2290	6.31
(-5 ft)	lb	*16160	*16160	*21030	15340	13250	8090			8000	5050	(20.7)
-3.0 m	kg			*7950	7130	*5200	3760					
(-10 ft)	lb			*17530	15720	*11460	8290					

Boom : 4.6 m (15′ 1″) / Arm : 2.1 m (6′ 11″) / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Shoe : 800mm(32″) triple grouser

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*3070	*3070			*3040	2480	6.37
(20 ft)	lb					*6770	*6770			*6700	5470	(20.9)
4.5 m	kg					*3450	*3450	*3210	2660	3070	1960	7.19
(15 ft)	lb					*7610	*7610	*7080	5860	6770	4320	(23.6)
3.0 m	kg			*6340	*6340	*4410	4100	*3720	2580	2770	1740	7.58
(10 ft)	lb			*13980	*13980	*9720	9040	*8200	5690	6110	3840	(24.9)
1.5 m	kg			*9010	7160	*5510	3850	3920	2470	2710	1690	7.60
(5 ft)	lb			*19860	15790	*12150	8490	8640	5450	5970	3730	(24.9)
Ground	kg			*8820	6900	6020	3680	3840	2390	2880	1800	7.27
Line	lb			*19440	15210	13270	8110	8470	5270	6350	3970	(23.9)
-1.5 m	kg	*6960	*6960	*9650	6900	5970	3630	3820	2380	3420	2150	6.51
(-5 ft)	lb	*15340	*15340	*21270	15210	13160	8000	8420	5250	7540	4740	(21.4)
-3.0 m	kg	*11130	*11130	*8250	7050	*5430	3700			*3630	3210	5.10
(-10 ft)	lb	*24540	*24540	*18190	15540	*11970	8160			*8000	7080	(16.7)

Boom : 4.6 m (15′ 1″) / Arm : 2.5 m (8′ 2″) / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / Shoe : 800mm(32″) triple grouser

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg									*2830	2180	6.87
(20 ft)	lb									*6240	4810	(22.5)
4.5 m	kg					*3040	*3040	*2930	2690	2790	1770	7.63
(15 ft)	lb					*6700	*6700	*6460	5930	6150	3900	(25.0)
3.0 m	kg			*5460	*5460	*4030	*4030	*3470	2590	2540	1590	7.99
(10 ft)	lb			*12040	*12040	*8880	*8880	*7650	5710	5600	3510	(26.2)
1.5 m	kg			*8460	7290	*5200	3880	3930	2480	2490	1540	8.01
(5 ft)	lb			*18650	16070	*11460	8550	8660	5470	5490	3400	(26.3)
Ground	kg	*3600	*3600	*8880	6920	6030	3680	3820	2380	2630	1630	7.70
Line	lb	*7940	*7940	*19580	15260	13290	8110	8420	5250	5800	3590	(25.3)
-1.5 m	kg	*6200	*6200	*9840	6850	5940	3600	3780	2340	3050	1900	7.00
(-5 ft)	lb	*13670	*13670	*21690	15100	13100	7940	8330	5160	6720	4190	(23.0)
-3.0 m	kg	*9390	*9390	*8770	6960	*5760	3640			*3520	2650	5.74
(-10 ft)	lb	*20700	*20700	*19330	15340	*12700	8020			*7760	5840	(18.8)

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.