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
- Cabin roof cover transparent
- Radio & USB player
- 12 volt power outlet (24V DC to 12V DC converter)
- Handsfree mobile phone system with USB
- Sun visor
- Air-suspension seat with heater

Cabin FOPS (ISO 10262 Level II)
- FOPS (Falling Object Protective Structure)

Cabin lights
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
- Full automatic temperature control
- 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

Three outside rearview mirrors
Fully adjustable suspension seat with seat belt
Console box height adjust system
Six front working lights, two rear lights
Air horn
Batteries (4 x 12V x 160 AH)
Battery master switch
Removable clean-out dust net for cooler
Automatic swing brake
Automatic fuel line deaeration
Fuel pre-filter with fuel warmer
Boom holding system
Arm holding system
Track shoes (700mm, 27.6")
Full track rail guard
Accumulator for lowering work equipment
Electric transducer
Lower frame under cover
Travel alarm

OPTIONAL EQUIPMENT

Fuel filler pump (50 L/min)
Beacon lamp
Booms
- 8.05m, 26' 5"
- 8.2m, 26' 11"
- 10.5m, 34' 5"
- 11.3m, 37' 1"

Arms
- 3.4m, 11' 2"
- 3.6m, 11' 8"
- 6.5m, 21' 4"
- 8.0m, 26' 3"

Track shoes
- Double grouser shoe (800mm, 32")
- Double grouser shoe (900mm, 35")

Pre-heating system, coolant (16kw)
Tool kit
Operator suit
Rearview camera
Seat
- Mechanical suspension seat
- Mechanical suspension seat with heater
- Air-suspension seat with heater

Automatic lubrication
Hi-mate (Remote Management System)
Safety lock valve for boom cylinder
Safety lock valve for arm cylinder
Single- acting piping kit
Double- acting piping kit
Quick coupler
Cabin roof-steel cover
Heavy duty aircleaner

* 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.

HD HYUNDAI CONSTRUCTION EQUIPMENT

Head Office(Sales Office)
11F, GLOBAL R&D CENTER, 477 BUNDANG SUSEO-RO, BUNDANG-GU, SEONGNAM-SI, GYEONGGI-DO, 13553, KOREA

PLEASE CONTACT

2023. AUG

R850 LC-9

With Tier 3 Engine installed

Gross Power	Bucket Capacity	Net Power	Operating Weight
18.5 kW (24.8 HP) at 2,200 rpm	0.12m^3	17.8 kW (23.9 HP) at 2,200 rpm	3,880~4,240 kg / 8,550~9,350 lbs

HD HYUNDAI

PRIDE AT WORK

HD Hyundai Construction Equipment 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!

850LC-9

*Photo may include optional equipment.

Machine Walk-Around

Engine Technology

Proven / reliable, fuel efficient Cummins Tier III QSX15 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.
9 Series reduced fuel consumption by 4% compared with 7A series.

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

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

Improved Suspension Seat / Console Assembly
Ergonomic joysticks with auxiliary control buttons for attachment use. Now with new sleek styling. Heated suspension (standard) or optional air ride suspension with heat.
New joystick consoles - now adjustable in height by way of dial at bottom.
Adjustable arm rests - turn dial to raise or lower for optimum comfort.

Advanced 7" Color Cluster
New Color LCD Display with easy to read digital gauges for hydraulic oil temperature, water temperature and fuel. Simplified design makes adjustment and diagnostics easier. Also, new enhanced features such as rear-view camera are integrated into monitor. 3 power modes : (P) Power, (S) Standard, (E) Economy, and (U) User mode for operator preference.
Enhanced self-diagnostic features with GPS download capability.
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
RMS (Remote Management System) works through GPS/satellite technology to ultimately provide better customer service and support.

Undercarriage

Sealed track chain (urethane seals) / Optional full 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 9 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. Single piece right side glass improves visibility and operator comfort. Plus, the front defrosting system provides more comfortable working condition. 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 9 series cabin you can easily adjust the seat, console and armrest settings to best suit your preferred comfort level. Other preference settings that add to overall operator comfort include the full automatic high capacity air conditioning system, transparent polycarbonate glass sun roof, large and easy to control sun visor, and radio / USB player.

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. The powerful climate control system and the optimized vent positions provide the operator with optimum air temperature. An advanced audio system with USB player, AM/FM stereo, 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.

PERFORMANCE

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

*Photo may include optional equipment.

Computer Aided Power

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

Power Mode

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

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.

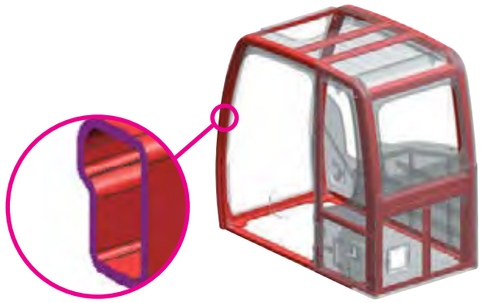
PERFORMANCE

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

*Photo may include optional equipment.

Excellent Reliability and Durability

Durable track rail guards keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.
The strengthened undercarriage is designed for excellent production at quarries and mines. R850LC-9 is equipped with covers to protect the travel motors and hoses against damage from rocks.



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.

CUMMINS QSX15 Engine

The six cylinders, turbocharged, 4 cycle, charger air cooled engine is built for power, reliability, economy and low emissions. This engine meets Tier III emissions regulations.

Heavy-duty strength

The QSX15 features dual overhead cams for superior performance. The first cam drives up to 30,000 psi (2,000 bar) of fuel injection for cleaner, more powerful combustion. The second cam operates the intake and exhaust valves, with a separate set of lobes specifically designed to operate the optional interbrake,TM capable of up to 400hp (298kW). Improved power cylinder components provide up to 40% longer life before cylinder wear out. A patented wastegated turbo with variable step settings delivers maximum performance without over boost at high speeds and increased airflow at lower speed for improved responsiveness.

PROFITABILITY

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

*Photo may include optional equipment.

Easy Access

Concentrated engine filters, remote type fuel pre-filter and fuel cut valve, and wide open compartments make service more convenient. The auto greasing system at the touch of a button provides simple and easy maintenance.

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.

Enhanced Safety

Variable cabin guards offers enhanced operator safety. And the work lamps on the cab improved operator convenience at night time. Wide cat-walks, large handrails and anti-slip plates provide easy access to the cab and safer maintenance.

Long-Life Components

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

SPECIFICATIONS

ENGINE

MODEL			CUMMINS QSX15
Type			Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charger air cooled, Low emission
Rated flywheel horsepower	SAE	J1995 (gross)	510HP (380kW)/ 1,800rpm
		J1349 (net)	490HP (366kW)/ 1,800rpm
	DIN	6271/1 (gross)	517PS (380kW)/ 1,800rpm
		6271/1 (net)	497PS (366kW)/ 1,800rpm
Max. torque			241kgf·m (1,743lbf·ft) / 1,400rpm
Bore X stroke			137mm X 169mm (5.39" X 6.65")
Piston displacement			15,000cc (915 in^3)
Batteries			4 X 12V X 160AH
Starting motor			24V, 9.0kW
Alternator			24V, 100Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement axis piston pumps
Max. flow	2 X 504 L /min (133.1 US gpm / 110.9 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	330 kgf/cm^2 (4,690 psi)
Travel	330 kgf/cm^2 (4,693 psi)
Power boost (boom, arm, bucket)	360 kgf/cm^2 (5,120 psi)
Swing circuit	290 kgf/cm^2 (4,120 psi)
Pilot circuit	40 kgf/cm^2 (569 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom : 2-200 x 1,892 mm
	Arm : 1-215 x 2,250 mm
	Bucket (A) : 1-200 x 1,593 mm
	Bucket (B) : 1-215 x 1,593 mm
	Bucket (C) : 1-170 x 1,370mm

*Bucket (A) : Boom (8,050mm/8,200mm) + Arm (3,400mm/3,600mm)
Bucket (B) : Boom (7,200mm) + Arm (2,950mm)
Bucket (C) : Boom (10,500mm/11,300mm) + Arm (6,500mm/8,000mm)

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	59,300 kgf (130,730 lbf)
Max. travel speed (high / low)	3.8 km/hr (2.4 mph) / 2.7 km/hr (1. mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

CONTROL

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

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

SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	6.2 rpm

COOLANT & LUBRICANT CAPACITY

	liter	US gal	UK gal
Re-filling			
Fuel tank	940.0	248.0	206.0
Engine coolant	65	17.2	14.3
Engine oil	43.5	11.5	9.5
Swing device - gear oil	8.0	2.1	1.8
Final drive (each) - gear oil	20.0	5.3	2.4
Hydraulic system (including tank)	800.0	211.0	175.6
Hydraulic tank	450.0	119.0	99.0

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	Tetragoral box type
No. of shoes on each side	51
No. of carrier rollers on each side	3
No. of track rollers on each side	9
No. of full track guard on each side	1

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7,200mm (23' 7") boom, 2,950mm (9' 8") arm, SAE heaped 4.04m^3(5.28yd^3) HD bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

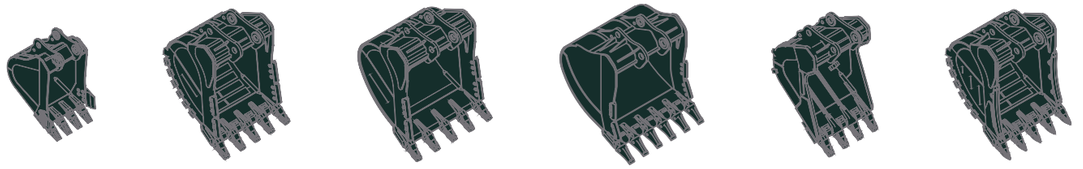
MAJOR COMPONENT WEIGHT	
Upperstructure	52,025kg (114,700lb)
Counterweight	12,600kg (27,560lb)
Boom (with Arm cylinder)	7,765kg (17,120lb)

OPERATING WEIGHT 850LC-9			
Shoes		Operating weight	Ground pressure
Type	Width mm (in)	kg (lb)	kgf/cm^2 (psi)
Double grouser	*700 mm (28")	84,000 (185,190)	1.10 (15.64)
	800 mm (32")	84,810 (186,970)	0.97 (13.79)
	900 mm (35")	85,620 (188,760)	0.87 (12.37)

OPERATING WEIGHT 850LC-9 FS			
Shoes		Operating weight	Ground pressure
Type	Width mm (in)	kg (lb)	kgf/cm^2 (psi)
Double grouser	*700 mm (28")	87,600 (193,120)	1.15 (16.35)
	800 mm (32")	88,410 (194,910)	1.01 (14.36)
	900 mm (35")	89,220 (196,690)	0.91 (12.94)

*Standard equipment

BUCKETS All buckets are welded with high-strength steel.



SAE heaped m^3 (yd^3)	L/Rreach	Heavy duty	Heavy duty	Heavy duty	Rock	Rock
	1.65 (2.16)	3.40 (4.45)	4.85 (6.34)	5.20 (6.80)	3.40 (4.45)	3.40 (4.45) / 4.04 (5.28)
	2.56 (3.35)	4.04 (5.28)		5.66 (7.40)		4.25 (5.56) / 4.50 (5.89)
		4.50 (5.89)				

Capacity m^3 (yd^3) SAE heaped	Capacity m^3 (yd^3) CECE heaped	Width mm (in)	Weight kg (lb)	Tooth EA	Recommendation mm (ft-in) 7,200 (23' 7") Boom 2,950 (9' 8") Arm	8,050 (26' 5") Boom 3,400 (11' 2") Arm	8,200 (26' 11") Boom 3,400 (11' 2") Arm	10,500 (34' 5") Boom 6,500 (21' 4") Arm	11,300 (37' 1") Boom 8,000 (26' 3") Arm
1.65 (2.16)	1.48 (1.94)	1,030 (40.6")	1,565 (3.450)	4	-	-	-	●	◐
2.56 (3.35)	2.27 (2.97)	1,525 (60.0")	1,930 (4,250)	5	-	-	-	■	-
Ⓗ 3.40 (4.45)	3.05 (3.99)	1,685 (66.3")	4,495 (9,910)	4	●	●	◐	-	-
Ⓗ 4.04 (5.28)	3.60 (4.71)	1,915 (75.4")	4,920 ((10,850)	5	●	■	■	-	-
Ⓗ 4.50 (5.89)	3.99 (5.22)	2,070 (81.5")	5,150 (11,350)	5	◐	■	▲	-	-
Ⓗ 4.85 (6.34)	4.25 (5.56)	2,200 (86.6")	5,075 (11,190)	5	◐	▲	▲	-	-
Ⓗ 5.20 (6.80)	4.60 (6.02)	2,200 (86.6")	4,585 (10,110)	5	■	▲	▲	-	-
Ⓗ 5.66 (7.40)	5.09 (6.66)	2,000 (78.7")	4,705 (10,370)	5	■	▲	▲	-	-
Ⓡ 3.40 (4.45)	2.97 (3.88)	1,435 (56.5")	3,890 (8,580)	4	●	●	●	-	-
Ⓡ 3.40 (4.45)	3.05 (3.99)	1,665 (65.6")	4,630 (10,210)	4	●	◐	◐	-	-
Ⓡ 4.04 (5.28)	3.60 (4.71)	1,895 (74.6")	5,050 (11,130)	5	●	■	■	-	-
Ⓡ 4.25 (5.56)	3.75 (4.90)	1,965 (77.4")	5,155 (11,360)	5	●	■	■	-	-
Ⓡ 4.50 (5.89)	3.99 (5.22)	2,050 (80.7")	5,280 (11,640)	5	◐	▲	▲		

Ⓗ Heavy duty bucket
Ⓡ Rock bucket

● : Applicable for materials with density of 2,100 kg /m^3 (3,500 lb/ yd^3) or less
◐ : Applicable for materials with density of 1,800 kg /m^3 (3,000 lb/ yd^3) or less
■ : Applicable for materials with density of 1,500 kg /m^3 (2,500 lb/ yd^3) or less
▣ : Applicable for materials with density of 1,200 kg /m^3 (2,000 lb/ yd^3) or less
▲ : Applicable for materials with density of 900 kg /m^3 (1,500 lb/ yd^3) or less
- : Not Recommended

ATTACHMENT

Boom and arms are of all-welded, low-stress, full-box section design. 7,200mm(23' 7"), 8,050mm(26' 5"), 8,200mm(26' 11"), 10,500mm(34' 5"), 11,300mm(37' 1")boom and 2,950mm(9' 8"), 3,400mm(11' 2"), 3,600mm(11' 10"), 6,500mm(21' 4"), 8,000mm(26' 3") arms are available. Hyundai Buckets are all-welded, high-strength steel implements.

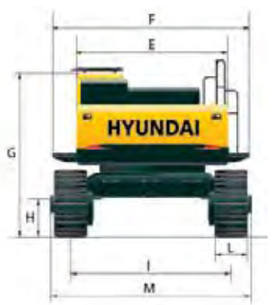
DIGGING FORCE

			7,200 (23' 7")	8,050 (26' 5")	8,200 (26' 11")	10,500 (34' 5")	11,300 (37' 1")	Remarks
Boom	Length	mm (ft-in)	7,200 (23' 7")	8,050 (26' 5")	8,200 (26' 11")	10,500 (34' 5")	11,300 (37' 1")	
	Weight	kg (lb)	6,370 (14,040)	7,020 (15,480)	7,480 (16,490)	7,300 (16,090)	7,500 (16,530)	
Arm	Length	mm (ft-in)	2,950 (9' 8")	3,400 (11' 2")	3,600 (11' 10")	6,500 (21' 4")	8,000 (26' 3")	
	Weight	kg (lb)	2,910 (6,420)	3,070 (6,770)	3,290 (7,250)	3,600 (7,940)	3,850 (8,490)	
Bucket digging force	SAE	kN	388.3[423.7]	336.4[367.0]	336.4[367.0]	248.0	248.0	[ ]: Power Boost
		kgf	39,600[43,200]	34,300[37,420]	34,300[37420]	25,290	25,290	
		lbf	87,300[95,240]	75,620[82,500]	75,620[82500]	55,750	55,750	
	ISO	kN	443.3[483.6]	384.4[419.3]	384.4[419.3]	291.1	291.1	
		kgf	45,200[49,310]	39,200[42,760]	39,200[42,760]	29,680	29,680	
		lbf	99,650[108,710]	86,420[94,270]	86,420[94,270]	65,430	65,430	
Arm crowd force	SAE	kN	318.7[347.7]	292.2[318.8]	282.4[308.1]	181.4	153.5	
		kgf	32,500[35,450]	29,800[32,510]	28,800[31,420]	18,500	15,650	
		lbf	71,650[78,150]	65,700[71,670]	63,490[69,270]	40,790	34,500	
	ISO	kN	333.4[363.7]	305.0[332.7]	294.2[321.0]	186.1	156.9	
		kgf	34,000[37,090]	31,100[33,930]	30,000[32,730]	18,980	16,000	
		lbf	74,960[81,770]	68,560[74,800]	66,140[72,160]	41,840	35,270	

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

DIMENSIONS & WORKING RANGE

850LC-9 DIMENSIONS



mm (ft·in)

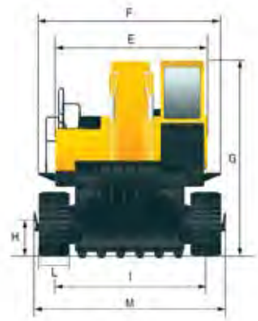
A	Tumbler distance	5,030 (16′ 6″)
B	Overall length of crawler	6,335 (20′ 9″)
C	Ground clearance of counterweight	1,580 (5′ 2″)
D	Tail swing radius	4,315 (14′ 2″)
D′	Rear-end length	4,200 (13′ 9″)
E	Overall width of upperstructure	3,420 (11′ 3″)
F	Overall width with catwalk	4,230 (13′ 11″)
G	Overall height of cab	3,710 (12′ 2″)
H	Min. ground clearance	880 (2′ 11″)
I	Track gauge (Extended/Retracted)	3,500 (11′ 6″) / 2,780 (9′ 1″)

mm (ft·in)

	Boom length	7,200 (23′ 7″)	8,050 (26′ 5″)	8,200 (26′ 11″)	10,500 (34′ 5″)	11,300 (37′ 1″)
	Arm length	2,950 (9′ 8″)	3,400 (11′ 2″)	3,600 (11′ 10″)	6,500 (21′ 4″)	8,000 (26′ 3″)
J	Overall length	13,100 (43′ 0″)	13,950 (45′ 9″)	14,110 (46′ 4″)	16,120 (52′ 11″)	16,500 (54′ 2″)
K	Overall height of boom	5,040 (16′ 6″)	5,360 (17′ 7″)	5,390 (17′ 8″)	5,500 (18′ 1″)	7,020 (23′ 0″)

L	Track shoe width		700 (28″)	800 (32″)	900 (36″)
M	Overall width	Extended	4,495 (14′ 9″)	4,495 (14′ 9″)	4,595 (15′ 1″)
		Retracted	3,775 (12′ 5″)	3,775 (12′ 5″)	3,875 (12′ 9″)

850LC-9 FS DIMENSIONS



mm (ft·in)

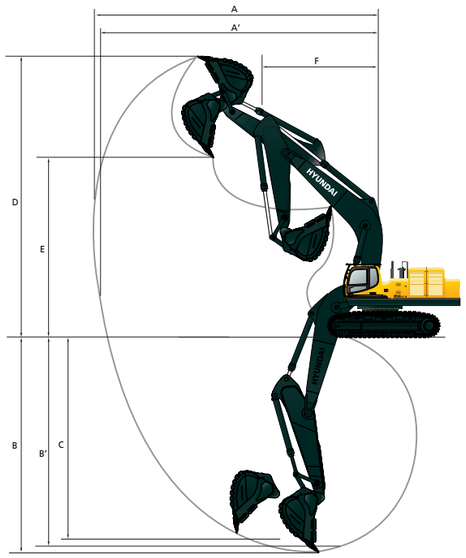
A	Tumbler distance	5,030 (16′ 6″)
B	Overall length of crawler	6,335 (20′ 9″)
C	Ground clearance of counterweight	1,580 (5′ 2″)
D	Tail swing radius	4,315 (14′ 2″)
D′	Rear-end length	4,200 (13′ 9″)
E	Overall width of upperstructure	3,420 (11′ 3″)
F	Overall width with catwalk	4,230 (13′ 11″)
G	Overall height of cab	3,710 (12′ 2″)
H	Min. ground clearance	880 (2′ 11″)
I	Track gauge (Extended/Retracted)	3,500 (11′ 6″) / 2,780 (9′ 1″)

mm (ft·in)

	Boom length	4,600 (15′ 1″)
	Arm length	3,500 (11′ 6″)
J	Overall length	13,700 (44′ 11″)
K	Overall height of boom	5,360 (17′ 7″)

L	Track shoe width		700 (28″)	800 (32″)	900 (35″)
M	Overall width	Extended	4,495 (14′ 9″)	4,495 (14′ 9″)	4,595 (15′ 1″)
		Retracted	3,775 (12′ 5″)	3,775 (12′ 5″)	3,875 (12′ 9″)

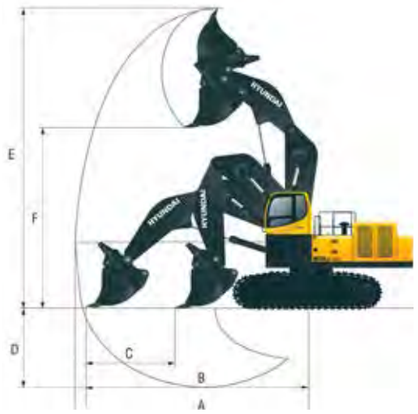
850LC-9 WORKING RANGE



mm (ft·in)

	Boom length	7,200 (23′ 7″)	8,050 (26′ 5″)	8,200 (26′ 11″)	10,500 (34′ 5″)	11,300 (37′ 1″)
	Arm length	2,950 (9′ 8″)	3,400 (11′ 2″)	3,600 (11′ 10″)	6,500 (21′ 4″)	8,000 (26′ 3″)
A	Max. digging reach	12,250 (40′ 2″)	13,420 (44′ 0″)	13,670 (44′ 10″)	18,470 (60′ 7″)	20,540 (67′ 5″)
A′	Max. digging reach on ground	11,970 (39′ 3″)	13,160 (43′ 2″)	13,420 (44′ 0″)	18,280 (59′ 12″)	20,360 (66′ 10″)
B	Max. digging depth	7,240 (23′ 9″)	8,450 (27′ 9″)	8,750 (28′ 8″)	13,040 (42′ 9″)	14,940 (49′ 0″)
B′	Max. digging depth (8′ level)	7,080 (23′ 3″)	8,320 (27′ 4″)	8,630 (28′ 4″)	12,940 (42′ 5″)	14,840 (48′ 8″)
C	Max. vertical wall digging depth	5,670 (18′ 7″)	6,190 (20′ 4″)	6,170 (20′ 3″)	12,190 (39′ 12″)	13,990 (45′ 11″)
D	Max. digging height	11,750 (38′ 7″)	11,820 (38′ 9″)	11,780 (38′ 8″)	15,050 (49′ 5″)	16,190 (53′ 1″)
E	Max. dumping height	7,500 (24′ 7″)	7,740 (25′ 5″)	7,770 (25′ 6″)	11,680 (38′ 4″)	13,090 (42′ 11″)
F	Min. swing radius	5,120 (16′ 10″)	6,000 (19′ 8″)	6,080 (19′ 11″)	7,620 (25′ 0″)	8,070 (26′ 6″)

850LC-9 FS WORKING RANGE



mm (ft.in)

	Boom length	4,600 (15′ 1″)
	Arm length	3,500 (11′ 6″)
A	Max. digging reach	10,190 (33′ 5″)
B	Max. reach on ground level	9,730 (31′ 11″)
C	Max. level crowd distance	3,730 (12′ 3″)
D	Max. digging depth	2,710 (8′ 11″)
E	Max. digging height	11,510 (37′ 9″)
F	Max. dumping height	7,270 (23′ 10″)

TRANSPORTATION PLAN

850LC-9

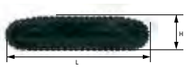
Total (Shiping position(Retracted))

Shoe	L	H	W	Weight kg(lb)
700 (24”)	13,100 (43’ 0”)	5,040 (16’ 6”)	4,290 (14’ 1”)	84,000 (185,190)
800 (32”)	13,100 (43’ 0”)	5,040 (16’ 6”)	4,290 (14’ 1”)	84,810 (186,970)
900 (35”)	13,100 (42’12”)	5,040 (16’ 6”)	4,290 (14’ 1”)	85,620 (188,760)

Upperstructure + Undercarriage + Hand Rail + Step Plate

Shoe	L	H	W	Weight kg(lb)
700 (24”)	7,150 (23’ 5”)	3,870 (12’ 8”)	3,675 (12’ 1”)	52,025 (114,700)
800 (32”)	7,150 (23’ 5”)	3,870 (12’ 8”)	3,775 (12’ 5”)	52,835 (116,480)
900 (35”)	7,150 (23’ 5”)	3,870 (12’ 8”)	3,885 (12’ 9”)	53,645 (118,270)

Track Frame

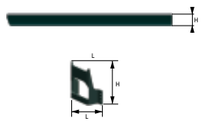


	L	H	W	Weight kg(lb)
700 (24”)	6,335 (20’ 9”)	1,390 (4’ 7”)	860 (2’ 10”)	13,500 (29,760)
800 (32”)	6,335 (20’ 9”)	1,390 (4’ 7”)	910 (2’ 12”)	13,905 (30,660)
900 (35”)	6,335 (20’ 9”)	1,390 (4’ 7”)	960 (3’ 2”)	14,310 (31,550)

Bucket

	m³(yd³)	L	H	W	Weight kg(lb)
Ⓛ	1.65 (2.16)	1,292 (4’ 3”)	1,734 (5’ 8”)	1,888 (6’ 2”)	1,565 (3,450)
Ⓛ	2.56 (3.35)	1,900 (6’ 3”)	1,729 (5’ 8”)	1,790 (5’ 10”)	1,930 (4,250)
Ⓗ	3.40 (4.45)	2,509 (8’ 3”)	2,170 (7’ 1”)	1,741 (5’ 9”)	4,495 (9,910)
Ⓗ	4.04 (5.28)	2,509 (8’ 3”)	2,170 (7’ 1”)	1,969 (6’ 6”)	4,920 (10,850)
Ⓗ	4.50 (5.89)	2,509 (8’ 3”)	2,170 (7’ 1”)	2,125 (6’ 12”)	5,150 (11,350)
Ⓗ	4.85 (6.34)	2,487 (8’ 2”)	2,170 (7’ 1”)	2,255 (7’ 5”)	5,075 (11,190)
Ⓗ	5.20 (6.80)	2,491 (8’ 2”)	2,267 (7’ 5”)	2,255 (7’ 5”)	4,585 (10,110)
Ⓗ	5.66 (7.40)	2,627 (8’ 7”)	2,267 (7’ 5”)	2,098 (6’ 11”)	4,705 (10,370)
Ⓡ	3.40 (4.45)	2,459 (8’ 3”)	2,027 (6’ 8”)	1,701 (5’ 7”)	3,890 (8,580)
Ⓡ	3.40 (4.45)	2,510 (8’ 3”)	2,170 (7’ 1”)	1,741 (5’ 9”)	4,630 (10,210)
Ⓡ	4.04 (5.28)	2,510 (8’ 3”)	2,170 (7’ 1”)	1,969 (6’ 6”)	5,050 (11,130)
Ⓡ	4.25 (5.56)	2,510 (8’ 3”)	2,170 (7’ 1”)	2,039 (6’ 8”)	5,155 (11,360)
Ⓡ	4.50 (5.89)	2,510 (8’ 3”)	2,170 (7’ 1”)	2,125 (6’ 12”)	5,280 (11,640)

Catwalk & Step Plate (4EA / Unit)



	L	H	W	Weight kg(lb)
Catwalk	2,300 (7’ 7”)	400 (1’ 4”)	185 (0’ 7”)	52 (110)
Step Plate	460 (1’ 6”)	420 (1’ 5”)	190 (0’ 7”)	23 (50)

Upperstructure+ Hand Rail + Undercarriage(700mm shoe) + Boom + Cylinder

Boom	L	H’	H	W	Weight kg(lb)
7.2m (23’ 7”)	10,720 (35’ 2”)	4,450 (14’ 7”)	3,870 (12’ 8”)	3,675 (12’ 1”)	61,500 (135,580)
8.05m (26’ 5”)	11,800 (38’ 9”)	4,850 (15’ 11”)	3,870 (12’ 8”)	3,675 (12’ 1”)	62,310 (137,370)
8.2m (26’11”)	11,800 (38’ 9”)	4,650 (15’ 3”)	3,870 (12’ 8”)	3,675 (12’ 1”)	63,120 (139,160)

Upperstructure

L	H	W	Weight kg(lb)
5,945 (19’ 6”)	2,940 (9’ 8”)	3,420 (11’ 3”)	24,650 (54,340)

Boom & Arm Cylinder

	L	H	W	Weight kg(lb)
7.2m	7,530 (24’ 8”)	2,735 (8’ 12”)	1,340 (4’ 5”)	7,765 (17,120)
8.05m (23’ 7”)	8,375 (27’ 6”)	2,980 (9’ 9”)	1,340 (4’ 5”)	8,345 (18,400)
8.2m (26’ 5”)	8,550 (28’ 1”)	2,985 (9’ 10”)	1,340 (4’ 5”)	8,800 (19,400)
10.5m (26’11”)	10,880 (35’ 8”)	2,470 (8’ 1”)	1,170 (3’ 10”)	8,480 (18,700)
11.3m (34’ 5”)	11,680 (38’ 4”)	2,370 (7’ 9”)	1,170 (3’ 10”)	8,150 (17,970)

Arm & Bucket Cylinder

	L	H	W	Weight kg(lb)
2.95m (9’ 8”)	4,540 (14’ 11”)	1,435 (4’ 8”)	800 (2’ 7”)	4,520 (9,960)
3.4m (11’ 2”)	4,990 (16’ 4”)	1,360 (4’ 6”)	800 (2’ 7”)	4,635 (10,220)
3.6m (11’10”)	5,235 (17’ 2”)	1,435 (4’ 8”)	800 (2’ 7”)	4,850 (10,690)
6.5m (21’ 4”)	8,050 (26’ 5”)	1,320 (4’ 4”)	530 (1’ 9”)	5,200 (11,460)
8.0m (26’ 3”)	9,550 (31’ 4”)	1,250 (4’ 1”)	530 (1’ 9”)	5,300 (11,680)

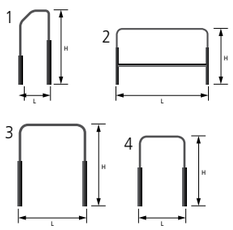
Boom Cylinder (2EA Weght : 750 x 2 = 1,500kg)

L	H	W	Weight kg(lb)
3,160 (10’ 4”)	518 (1’ 8”)	335 (1’ 1”)	750(1EA) (1,650)

Counter Weight

	L	H	W	Weight kg(lb)
STD	3,420 (11’ 3”)	1,440 (4’ 9”)	790 (2’ 7”)	12,600 (27,780)
L / Reach	3,420 (11’ 3”)	1,440 (4’ 9”)	790 (2’ 7”)	15,500 (34,170)

Hand Rail



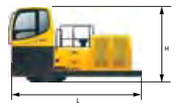
	L	H	W	Weight kg(lb)
1	505 (1’ 8”)	1,317 (4’ 4”)	220 (0’ 9”)	11.1 (20)
2	1,533 (5’0”)	917 (3’ 0”)	510 (1’ 8”)	22.5 (50)
3	830 (2’ 9”)	873 (2’ 10”)	355 (1’ 2”)	10.4 (20)
4	830 (2’ 9”)	917 (3’ 0”)	145 (0’ 6”)	10.4 (20)

850LC-9 FS

Total (Shiping position(Retracted))

Shoe	L	H	W	Weight kg(lb)
700 (24”)	13,700 (44’11”)	5,100 (16’ 9”)	4,290 (14’ 1”)	87,800 (193,570)
800 (32”)	13,700 (44’11”)	5,100 (16’ 9”)	4,290 (14’ 1”)	88,560 (195,240)
900 (35”)	13,700 (44’11”)	5,100 (16’ 9”)	4,290 (14’ 1”)	89,320 (196,920)

Upperstructure +Hand Rail



L	H	W	Weight kg(lb)
5,800 (19’ 0”)	3,290 (10’ 8”)	3,620 (11’11”)	25,100 (55,340)

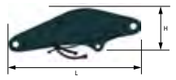
Attachment Total

L	H	W	Weight kg(lb)
9,050 (29’ 8”)	4,400 (14’ 5”)	2,520 (8’ 3”)	20,345 (44,850)

Boom & Piping

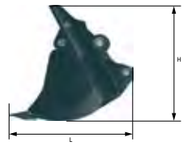
Boom	L	H	W	Weight kg(lb)
4,60m (15’ 1”)	4,980 (16’ 4”)	1,700 (5’ 7”)	1,400 (4’ 7”)	6,655 (14,670)

Arm & Piping



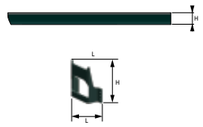
Arm	L	H	W	Weight kg(lb)
3,50m (11’ 6”)	3,930 (12’11”)	1,300 (4’ 3”)	1,200 (3’11”)	4,020 (8,860)

Bucket



m³(yd³)	L	H	W	Weight kg(lb)
4,50 (5.89)	2,610 (8’ 7”)	2,270 (7’ 5”)	2,520 (8’ 3”)	7,660 (16,890)
4.80 (6.28)	2,620 (8’ 7”)	2,400 (7’ 10”)	2,520 (8’ 3”)	8,030 (17,700)

Catwalk & Step Plate (4EA / Unit)



	L	H	W	Weight kg(lb)
Catwalk	2,300 (7’ 7”)	400 (1’ 4”)	185 (0’ 7”)	52 (110)
Step Plate	460 (1’ 6”)	420 (1’ 5”)	240 (0’ 9”)	23 (50)

Upperstructure + Undercarriage + Hand Rail + Step Plate

Boom	L	H	W	Weight kg(lb)
700 (24”)	6,950 (22’10”)	4,670 (15’ 3”)	3,675 (12’ 1”)	52,475 (115,690)
800 (32”)	6,950 (22’10”)	4,670 (15’ 3”)	3,775 (12’ 5”)	53,235 (117,360)
900 (35”)	6,950 (22’10”)	4,670 (15’ 3”)	3,885 (12’ 9”)	53,995 (119,040)

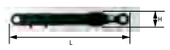
Counter Weight

L	H	W	Weight kg(lb)
3,420 (11’ 3”)	1,440 (4’ 9”)	790 (2’ 7”)	12,600 (27,780)

Boom Cylinder (2EA Weght : 645 x 2 = 1,290kg)

L	H	W	Weight kg(lb)
3,000 (9’10”)	520 (1’ 8”)	370 (1’ 3”)	645 (1,420)

Arm Cylinder



L	H	W	Weight kg(lb)
2,680 (8’10”)	350 (1’ 2”)	370 (1’ 3”)	730 (1,610)

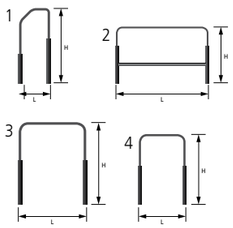
Bucket Cylinder (2EA Weght : 640 x 2 = 1,280kg)

L	H	W	Weight kg(lb)
3,530 (11’ 7”)	385 (1’ 3”)	330 (1’ 1”)	640 (1,410)

Track Frame (1EA)

Shoe	L	H	W	Weight kg(lb)
700 (24”)	6,335 (20’ 9”)	1,390 (4’ 7”)	860 (2’10”)	13,500 (29,760)
800 (32”)	6,335 (20’ 9”)	1,390 (4’ 7”)	910 (2’12”)	13,905 (30,660)
900 (35”)	6,335 (20’ 9”)	1,390 (4’ 7”)	960 (3’ 2”)	14,310 (31,550)

Hand Rail



	L	H	W	Weight kg(lb)
1	505 (1’ 8”)	1,317 (4’ 4”)	220 (0’ 9”)	11.1 (20)
2	1,533 (5’0”)	917 (3’ 0”)	510 (1’ 8”)	22.5 (50)
3	830 (2’ 9”)	873 (2’ 10”)	355 (1’ 2”)	10.4 (20)
4	830 (2’ 9”)	917 (3’ 0”)	145 (0’ 6”)	10.4 (20)

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

Boom : 7.20m (28’ 3”) / Arm : 2.95m (11’ 6”) / Shoe : 700mm (27.6”) double grouser

Lift-point height (m/ft)		Lift-point radius										At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		Capacity		Reach
														m (ft)
9.0m	kg							*18,530	*18,530			*17,780	*17,780	7.56
29.5ft	lb							*40,850	*40,850			*39,200	*39,200	(24.8)
7.5m	kg							*21,200	*21,200			*17,080	*17,080	8.62
24.6ft	lb							*46,740	*46,740			*37,650	*37,650	(28.3)
6.0m	kg					*26,280	*26,280	*22,010	*22,010	*19,300	16,620	*17,030	15,650	9.32
19.7ft	lb					*57,940	*57,940	*48,520	*48,520	*42,550	36,640	*37,540	34,500	(30.6)
4.5m	kg					*28,690	*28,690	*23,100	21,470	*19,620	16,200	*17,480	14,270	9.74
14.8ft	lb					*63,250	*63,250	*50,930	47,330	*43,250	35,710	*38,540	31,460	(31.9)
3.0m	kg					*30,410	28,540	*23,950	20,570	*19,850	15,720	*17,830	13,590	9.91
9.8ft	lb					*67,040	62,920	*52,800	45,350	*43,760	34,660	*39,310	29,960	(32.5)
1.5m	kg					*30,540	27,420	*24,070	19,860	*19,610	15,310	*17,380	13,470	9.84
4.9ft	lb					*67,330	60,450	*53,070	43,780	*43,230	33,750	*38,320	29,700	(32.3)
0.0m	kg					*28,960	26,910	*23,120	19,440	*18,510	15,070	*16,780	13,920	9.55
0.0ft	lb					*63,850	59,330	*50,970	42,860	*40,810	33,220	*36,990	30,690	(31.3)
-1.5m	kg			*30,530	*30,530	*25,790	*25,790	*20,780	19,320			*15,810	15,130	8.98
-4.9ft	lb			*67,310	*67,310	*56,860	*56,860	*45,810	42,590			*34,860	33,360	(29.5)
-3.0m	kg			*23,960	*23,960	*20,770	*20,770	*16,350	*16,350			*14,010	*14,010	8.11
-9.8ft	lb			*52,820	*52,820	*45,790	*45,790	*36,050	*36,050			*30,890	*30,890	(26.6)
-4.5m	kg			*14,500	*14,500	*12,650	*12,650					*10,160	*10,160	6.79
-14.8ft	lb			*31,970	*31,970	*27,890	*27,890					*22,400	*22,400	(22.3)

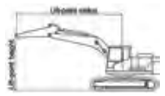
Boom : 8.05m (31’ 7”) / Arm : 3.4m (13’ 4”) / Shoe : 700mm (27.6”) double grouser

Lift-point height (m/ft)		Lift-point radius												At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		Capacity		Reach
																m (ft)
9.0m	kg									*13,640	*13,640			*13,060	*13,060	9.06
29.5ft	lb									*30,070	*30,070			*28,790	*28,790	(29.7)
7.5m	kg									*16,220	*16,220			*12,850	*12,850	9.95
24.6ft	lb									*35,760	*35,760			*28,330	*28,330	(32.7)
6.0m	kg					*23,290	*23,290	*19,280	*19,280	*16,840	16,690	*13,880	12,870	*12,980	12730	10.56
19.7ft	lb					*51,350	*51,350	*42,510	*42,510	*37,130	36,800	*30,600	28,370	*28,620	28,060	(34.7)
4.5m	kg					*26,300	*26,300	*20,850	*20,850	*17,660	16,060	*15,590	12,580	*13,420	11,750	10.93
14.8ft	lb					*57,980	*57,980	*45,970	*45,970	*38,930	35,410	*34,370	27,730	*29,590	25,900	(35.9)
3.0m	kg					*28,640	27,630	*22,220	20,090	*18,420	15,420	*15,890	12,220	*14,200	11,210	11.08
9.8ft	lb					*63,140	60,910	*48,990	44,290	*40,610	34,000	*35,030	26,940	*31,310	24,710	(36.4)
1.5m	kg					*29,460	26,420	*23,000	19,250	*18,870	14,880	*15,980	11,900	*15,080	11,060	11.03
4.9ft	lb					*64,950	58,250	*50,710	42,440	*41,600	32,800	*35,230	26,230	*33,250	24,380	(36.2)
0.0m	kg					*28,880	25,870	*22,970	18,720	*18,810	14,500	*15,630	11,680	*15,080	11,280	10.76
0.0ft	lb					*63,670	57,030	*50,640	41,270	*41,470	31,970	*34,460	25,750	*33,250	24,870	(35.3)
-1.5m	kg			*28,620	*28,620	*27,220	25,730	*22,040	18,490	*18,020	14,320			*14,990	11,980	10.27
-4.9ft	lb			*63,100	*63,100	*60,010	56,720	*48,590	40,760	*39,730	31,570			*33,050	26,410	(33.7)
-3.0m	kg	*29,440	*29,440	*29,140	*29,140	*24,460	*24,460	*20,040	18,530	*16,100	14,380			*14,660	13,380	9.51
-9.8ft	lb	*64,900	*64,900	*64,240	*64,240	*53,930	*53,930	*44,180	40,850	*35,490	31,700			*32,320	29,500	(31.2)
-4.5m	kg			*23,670	*23,670	*20,230	*20,230	*16,430	*16,430					*13,750	*13,750	8.42
-14.8ft	lb			*52,180	*52,180	*44,600	*44,600	*36,220	*36,220					*30,310	*30,310	(27.6)
-6.0m	kg					*13,360	*13,360									
-19.7ft	lb					*29,450	*29,450									

Boom : 8.20m (32’ 3”) / Arm : 3.4m (14’ 2”) / Shoe : 700mm (27.6”) double grouser

Lift-point height (m/ft)		Lift-point radius												At max. reach		
		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		Capacity		Reach
																m (ft)
9.0m	kg									*15,440	*15440			*14,150	*14,150	9.15
29.5ft	lb									*34,040	*34040			*31,200	*31,200	(30.0)
7.5m	kg									*15,930	*15930			*14,020	*14,020	10.04
24.6ft	lb									*35,120	*35120			*30,910	*30,910	(32.9)
6.0m	kg					*23,190	*23,190	*19070	*19,070	*16,580	16550	*14,980	12,770	*14,250	12,460	10.65
19.7ft	lb					*26,160	*51,130	*42040	*42,040	*36,550	36490	*33,030	28,150	*31,420	27,470	(34.9)
4.5m	kg					*26,300	*26,160	*20620	*20,620	*17,400	15880	*15,300	12,440	*14,750	11,480	11.01
14.8ft	lb					*57,670	*57,670	*45460	*45,460	*38,360	35010	*33,730	27,430	*32,520	25,310	(36.1)
3.0m	kg					*28,370	27,140	*21950	19,800	*18,150	15210	*15,620	12,060	*14,720	10,950	11.16
9.8ft	lb					*62,550	59,830	*48390	43,650	*40,010	33530	*34,440	26,590	*32,450	24,140	(36.6)
1.5m	kg					*29,030	25,960	*22670	18,940	*18,590	14650	*15,740	11,730	*14,740	10,790	11.11
4.9ft	lb					*64,000	57,230	*49980	41,760	*40,980	32300	*34,700	25,860	*32,500	23,790	(36.4)
0.0m	kg					*28,340	25,460	*22610	18,420	*18,520	14270	*15,430	11,500	*14,750	10,990	10.84
0.0ft	lb					*62,480	56,130	*49850	40,610	*40,830	31460	*34,020	25,350	*32,520	24,230	(35.6)
-1.5m	kg			*26,300	*26,300	*26,660	25,360	*21670	18,200	*17,760	14090			*14,690	11,650	10.35
-4.9ft	lb			*57,980	*57,980	*58,780	55,910	*47770	40,120	*39,150	31060			*32,390	25,680	(34.0)
-3.0m	kg	*27,820	*27,820	*28,250	*28,250	*23,970	*23,970	*19740	18,260	*15,980	14150			*14,420	12,990	9.61
-9.8ft	lb	*61,330	*61,330	*62,280	*62,280	*52,840	*52,840	*43520	40,260	*35,230	31200			*31,790	28,640	(31.5)
-4.5m	kg			*23,090	*23,090	*19,930	*19,930	*16350	*16,350					*13,610	*13,610	8.53
-14.8ft	lb			*50,900	*50,900	*43,940	*43,940	*36050	*36,050					*30,000	*30,000	(28.0)
-6.0m	kg					*13,530	*13,530							*11,340	*11,340	6.96
-19.7ft	lb					*29,830	*29,830							*25,000	*25,000	(22.8)

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



Rating over-front Rating over-side or 360 degree

Boom : 10.50m (41’ 3”) / Arm : 6.5m (25’ 6”) / Shoe : 800mm (31’ 5”) double grouser

Lift-point height (m/ft)		Lift-point radius																At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		15.0 m (54.1 ft)		16.5 m (29.5 ft)		Capacity		Reach
																										m (ft)
13.5m	kg																							*4,610	*4,610	12.54
44.3ft	lb																							*10,160	*10,160	(41.1)
12.0m	kg																	*5,130	*5130					*4,340	*4,340	13.71
39.4ft	lb																	*11,310	*11310					*9,570	*9,570	(45.0)
10.5m	kg																	*7,280	*7280					*4,170	*4,170	14.63
34.4ft	lb																	*16,050	*16050					*9,190	*9,190	(48.0)
9.0m	kg																	*8,460	*8460	*5,500	*5,500			*4,080	*4,080	15.35
29.5ft	lb																	*18,650	*18650	*12,130	*12,130			*8,990	*8,990	(50.3)
7.5m	kg															*10170	*10170	*9,430	*9430	*7,160	*7,160			*4,040	*4,040	15.89
24.6ft	lb															*22420	*22420	*20,790	*20790	*15,790	*15,790			*8,910	*8,910	(52.1)
6.0m	kg															*10610	*10610	*9,700	*9700	*8,350	8,060			*4,060	*4,060	16.28
19.7ft	lb															*23390	*23390	*21,380	*21380	*18,410	17,770			*8,950	*8,950	(53.4)
4.5m	kg							*22,320	*22,320	*17460	*17,460	*14,500	*14,500	*12,510	*12,510	*11080	*11080	*10,000	9430	*9,140	78,50	*4,230	*4,230	*4,130	*4,130	16.52
14.8ft	lb							*49,210	*49,210	*38490	*38,490	*31,970	*31,970	*27,580	*27,580	*24430	*24430	*22,050	20790	*20,150	17,310	*9,330	*9,330	*9,110	*9110	(54.2)
3.0m	kg							*23,620	*23,620	*19030	*19,030	*15,520	*15,520	*13,190	*13,190	*11530	10930	*10,290	9080	*9,290	7,610	*4,950	*4,950	*4,260	*4,260	16.62
9.8ft	lb							*52,070	*52,070	*41950	*41,950	*34,220	*34,220	*29,080	*29,080	*25420	24100	*22,690	20020	*20,480	16,780	*10,910	*10,910	*9,390	*9,390	(54.5)
1.5m	kg							*15,460	*15,460	*20140	*20,140	*16,320	15,750	*13,750	12,700	*11900	10470	*10,510	8750	*9,390	73,90	*4,960	*4,960	*4,440	*4,440	16.58
4.9ft	lb							*34,080	*34,080	*44400	*44,400	*35,980	34,720	*30,310	28,000	*26230	23080	*23,170	19290	*20,700	16,290	*10,930	*10,930	*9,790	*9,790	(54.4)
0.0m	kg							*14,590	*14,590	*20670	19,200	*16,790	15,010	*14,100	12,160	*12140	10070	*10,630	8470	*9,390	7,200			*4,690	*4,690	16.41
0.0ft	lb							*32,170	*32,170	*45570	42,330	*37,020	33,090	*31,090	26,810	*26760	22200	*23,440	18670	*20,700	15,870			*10,340	*10,340	(53.8)
-1.5m	kg					*9,250	*9,250	*16,120	*16,120	*20620	18,610	*16,890	14,500	*14,190	11,750	*12170	9760	*10,580	8250	*9,220	7,060			*5,040	*5040	(52.8)
-4.9ft	lb					*20,390	*20,390	*35,540	*35,540	*45460	41,030	*37,240	31,970	*31,280	25,900	*26830	21520	*23,320	18190	*20,330	15,560			*11,110	*11,110	(29.5)
-3.0m	kg	*8,120	*8,120	*9,220	*9,220	*12,450	*12,450	*18,930	*18,930	*20060	18,320	*16,590	14,200	*13,980	11,500	*11970	9560	*10,320	8110	*8,800	7,000			*5,500	*5,500	15.62
-9.8ft	lb	*17,900	*17,900	*20,330	*20,330	*27,450	*27,450	*41,730	*41,730	*44220	40,390	*36,570	31,310	*30,820	25,350	*26390	21080	*22,750	17880	*19,400	15,430			*12,130	*12,130	(51.2)
-4.5m	kg	*11,160	*11,160	*12,630	*12,630	*16,070	*16,070	*22,770	*22,770	*19000	18,260	*15,870	14,090	*13,420	11,380	*11450	9470	*9,730	8070					*6,140	*6,140	14.98
-14.8ft	lb	*24,600	*24,600	*27,840	*27,840	*35,430	*35,430	*50,200	*50,200	*41890	40,260	*34,990	31,060	*29,590	25,090	*25240	20880	*21450	17790					*13,540	*13,540	(49.2)
-6.0m	kg	*14,370	*14,370	*16,320	*16,320	*20,270	*20,270	*20,850	*20,850	*17430	*17,430	*14,680	14,130	*12,430	11,400	*10500	9510	*8,620	8160					*7,060	*7,060	14.16
-19.7ft	lb	*31,680	*31,680	*35,980	*35,980	*44,690	*44,690	*45,970	*45,970	*38430	*38,430	*32,360	31,150	*27,400	25,130	*23150	20970	*19,000	17990					*15,560	*15,560	(46.5)
-7.5m	kg			*20,520	*20,520	*21,170	*21,170	*17,950	*17,950	*15240	*15,240	*12,920	*12,920	*10,870	*10,870	*8900	*8900							*7,150	*7,150	13.12
-24.6ft	lb			*45,240	*45,240	*46,670	*46,670	*39,570	*39,570	*33600	*33,600	*28,480	*28,480	*23,960	*23,960	*19620	*19620							*15,760	*15,760	(43.0)
-9.0m	kg			*17,830	*17,830	*16,110	*16,110	*14,170	*14,170	*12240	*12,240	*10,340	*10,340	*8,390	*8,390									*6,310	*6,310	11.78
-29.5ft	lb			*39,310	*39,310	*35,520	*35,520	*31,240	*31,240	*26980	*26,980	*22,800	*22,800	*18,500	*18,500									*13,910	*13,910	(38.7)
-10.5m	kg							*9,120	*9,120	*7990	*7,990	*6,350	*6,350											*4,690	*4,690	10.05
-34.4ft	lb							*20,110	*20,110	*17610	*17,610	*14,000	*14,000											*10,340	*10,340	(33.0)
-12.0m	kg																									
-39.4ft	lb																									

Boom : 11.30m (44’ 5”) / Arm : 8.0m (31’ 5”) / Shoe : 800mm (31’ 5”) double grouser

Lift-point height (m/ft)		Lift-point radius																		At max. reach		
		1.5 m (4.9 ft)		3.0 m (9.8 ft)		4.5 m (14.8 ft)		6.0 m (19.7 ft)		7.5 m (24.6 ft)		9.0 m (29.5 ft)		10.5 m (34.4 ft)		12.0 m (39.4 ft)		13.5 m (44.3 ft)		15.0 m (54.1 ft)		16.5 m (29.5 ft)		18.0 m (59.1 ft)		19.5 m (64.0 ft)		Capacity		Reach
																														m (ft)
13.5m	kg																	*4020	*4,020									*3,070	*3,070	15.37
44.3ft	lb																	*8860	*8860									*6,770	*6,770	(50.4)
12.0m	kg																	*5440	*5,440									*2,930	*2,930	16.34
39.4ft	lb																	*11990	*11,990									*6,460	*6,460	(53.6)
10.5m	kg																	*6210	*6,210	*4,430	*4,430							*2,840	*2,840	17.12
34.4ft	lb																	*13690	*13,690	*9,770	*9,770							*6,260	*6,260	(56.2)
9.0m	kg																	*6830	*6,830	*5,500	*5,500							*2,800	*2,800	17.73
29.5ft	lb																	*15060	*15,060	*12,130	*12,130							*6,170	*6,170	(58.2)
7.5m	kg																	*7480	*7,480	*6,280	*6,280	*3,490	*3,490					*2,780	*2,780	18.21
24.6ft	lb																	*16490	*16,490	*13,850	*13,850	*7,690	*7,690					*6,130	*6,130	(59.7)
6.0m	kg															*8,450	*8,450	*7770	*7,770	*7,000	6,680	*4,510	*4,510					*2,800	*2,800	18.54
19.7ft	lb															*18,630	*18,630	*17130	*17,130	*15,430	14,730	*9,940	*9,940					*6,170	*6,170	(60.8)
4.5m	kg															*9,800	*9,800	*8,800	*8,800	*8000	7,750	*7,350	6,450	*5,200	*5,200			*2,860	*2,860	18.75
14.8ft	lb															*21,610	*21,610	*19,400	*19,400	*17640	17,090	*16,200	14,220	*1,1460	*11,460			*6,310	*6,310	(61.5)
3.0m	kg							*22,310	*22,310	*17,120	*17,120	*13,950	*13,950	*11,820	*11,820	*10,290	*10,290	*9,130	8,900	*8230	7,420	*7,480	6,220	*5,670	5,220			*2,940	*2,940	18.84
9.8ft	lb							*49,190	*49,190	*37,740	*37,740	*30,750	*30,750	*26,060	*26,060	*22,690	*22,690	*20,130	19,620	*18140	16,360	*16,490	13,710	*12,500	11,510			*6,480	*6,480	(61.8)
1.5m	kg							*14,780	*14,780	*18,330	*18,330	*14,800	*14,800	*12,420	12,400	*10,710	10,170	*9,430	8,460	*8420	7,100	*7,590	5,990	*5,910	5,070			*3,060	*3,060	18.81
4.9ft	lb							*32,580	*32,580	*40,410	*40,410	*32,630	*32,630	*27,380	27,340	*23,610	22,420	*20,790	18,650	*18560	15,650	*16,730	13,210	*13,030	11,180			*6,750	*6,750	(61.7)
0.0m	kg							*12,380	*12,380	*19,060	18,460	*15,390	14,440	*12,860	11,680	*11,030	9,640	*9,640	8,060	*8550	6,810	*7,630	5,780	*5,830	4,930			*3,230	*3,230	18.66
0.0ft	lb							*27,290	*27,290	*42,020	40,700	*33,930	31,830	*28,350	25,750	*24,320	21,250	*21,250	17,770	*18850	15,010	*16,820	12,740	*12,850	10,870			*7,120	*7,120	(61.2)
-1.5m	kg					*7,280	*7,280	*12,680	*12,680	*19,290	17,560	*15,660	13,710	*13,100	11,110	*11,200	9,200	*9,750	7,730	*8580	6,560	*7,590	5,610	*5,180	4,830			*3,440	*3,440	18.38
-4.9ft	lb					*16,050	*16,050	*2,7950	*27,950	*42,530	38,710	*34,520	30,230	*28,880	24,490	*24,690	20,280	*21,500	17,040	*18920	14,460	*16,730	12,370	*11,420	10,650			*7,580	*7,580	(60.3)
-3.0m	kg	*5,740	*5,740	*6,750	*6,750	*9,300	*9,300	*14,160	*14,160	*19,070	17,030	*15,620	13,230	*13,100	10,700	*11,200	8,870	*9,710	7,480	*8490	6,370	*7,410	54,90					*3,720	*3,720	17.97
-9.8ft	lb	*12,650	*12,650	*14,880	*14,880	*20,500	*20,500	*31,220	*31,220	*42,040	37,540	*34,440	29,170	*28,880	23,590	*24,690	19,550	*21,410	16,490	*18720	14,040	*16,340	12,100					*8,200	*8,200	(59.0)
-4.5m	kg	*7,900	*7,900	*9,090	*9,090	*11,660	*11,660	*16,390	*16,390	*18,440	16,770	*15,250	12,950	*12,850	10,440	*10,990	8,660	*9,490	7,310	*8220	6,260	*7,030	5,430					*4,090	*4,090	17.42
-14.8ft	lb	*17,420	*17,420	*20,040	*20,040	*25,710	*25,710	*36,130	*36,130	*40,650	36,970	*33,620	28,550	*28,330	23,020	*24,230	19,090	*20,920	16,120	*18120	13,800	*15,500	11,970					*9,020	*9,020	(57.2)
-6.0m	kg	*10,160	*10,160	*11,580	*11,580	*14,340	*14,340	*19,270	*19,270	*17,410	16,740	*14,530	12,850	*12,300	103,30	*10,520	8,560	*9,030	7,240	*7700	6,230	*5,960	5,480					*4,580	*4,580	16.72
-19.7ft	lb	*22,400	*22,400	*25,530	*25,530	*31,610	*31,610	*42,480	*42,480	*38,380	36,910	*32,030	28,330	*27,120	22,770	*23,190	18,870	*19,910	15,960	*16980	13,730	*13,140	12,080					*10,100	*10,100	(54.9)
-7.5m	kg	*12,600	*12,600	*14,330	*14,330	*17,450	*17,450	*19,200	*19,200	*15,960	*15,960	*13,440	12,910	*11,420	10,360	*9,740	8,580	*8,250	7,280	*6790	6,320							*5,270	*5,270	15.85
-24.6ft	lb	*27,780	*27,780	*31,590	*31,590	*38,470	*38,470	*42,330	*42,330	*35,190	*35,190	*29,630	28,460	*25,180	22,840	*21,470	18,920	*18,190	16,050	*14970	13,930							*11,620	*11,620	(52.0)
-9.0m	kg	*15,290	*15,290	*17,450	*17,450	*19,940	*19,940	*16,600	*16,600	*14,010	*14,010	*11,900	*11,900	*10,110	*10,110	*8,520	*8,520	*6,970	*6,970									*5,410	*5,410	14.77
-29.5ft	lb	*33,710	*33,710	*38,470	*38,470	*43,960	*43,960	*36,600	*36,600	*30,890	*30,890	*26,230	*26,230	*22,290	*22,290	*18,780	*18,780	*15,370	*15,370									*11,930	*11,930	(48.4)
-10.5m	kg			*18,080	*18,080	*15,430	*15,430	*13,300	*13,300	*11440	*11,440	*9,760	*9,760	*8,200	*8,200	*66,20	*6,620											*4,780	*4,780	13.43
-34.4ft	lb			*39,860	*39,860	*34,020	*34,020	*29,320	*29,320	*25,220	*25,220	*21,520	*21,520	*18,080	*18,080	*14,590	*14,590											*10,540	*10,540	(44.1)
-12.0m	kg					*9,770	*9,770	*9,040	*9,040	*7,980	*7,980	*6,740	*6,740	*5,280	*5,280													*3,650	*3,650	11.75
-39.4ft	lb					*21,540	*21,540	*19,930	*19,930	*17,590	*17,590	*14,860	*14,860	*11,640	*11,640													*8,050	*8,050	(38.6)
-13.5m	kg																													
-44.3ft	lb																													

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