#### **STANDARD EQUIPMENT**

STANDARD EQUIPIVIENT
ISO Standard cabin
All-weather steel cab with 360° visibility
Safety glass windows
Rise-up type windshield wiper
Sliding fold-in front window
Sliding side window(LH)
Lockable door
Hot & cool box
Storage compartment & Ashtray
Transparent cabin roof-cover
CD/MP3 Player
Handsfree mobile phone system with USB
Sun visor
Computer aided power optimization (New CAPO) system
3-power mode, 2-work mode, User mode
Auto deceleration & one-touch deceleration system
Auto warm-up system
Auto overheat prevention system
Automatic climate control
Air conditioner & heater Defroster
Self-diagnostics system Starting Aid (air grid heater) for cold weather
Centralized monitoring
LCD display
Engine speed or Trip meter/Accel.
Clock
Gauges
Fuel level gauge
Engine coolant temperature gauge
Hyd. oil temperature gauge
Warnings
Check Engine
Communication error
Low battery
Air cleaner clogging
Indicators
Power max
Low speed/High speed
Fuel warmer
Auto idle
Door and cab locks, one key
Two outside rearview mirrors
Mechanical suspension seat with heater
Pilot-operated slidable joystick Console box height adjust system
Four front working lights
Electric horn
Batteries (2 x 12V x 100 AH)
Battery master switch
Removable clean-out screen for oil cooler
Automatic swing brake
Removable reservoir tank
Fuel pre-filter with fuel warmer
Boom holding system
Arm holding system
Counterweight (2,950kg, 6,500lb)
Track shoes (600mm, 24")
Track rail guard
Accumulator for lowering work equipment
Electric transducer
Lower frame under cover (Normal)
Viscous fan clutch

#### **OPTIONAL EQUIPMENT**

uel filler pump (35 L/min) Beacon lamp	
afety lock valve for boom cylinder with overload warning device	
afety lock valve for arm cylinder	
ingle-acting piping kit (breaker, etc.)	
Double-acting piping kit (clamshell, etc.)	
Quick coupler	
2 volt power outlet (24V DC to 12V DC converter)	
ravel alarm	
Arms	
Short arm (2.2 m, 7' 3")	
Long arm (3.1 m, 10' 2")	
luckets	
Various optional Buckets(SAE heaped)	
Standard bucket (0.76m <sup>3</sup> , 0.99 yd <sup>3</sup> )	
Narrow bucket (0.39 m <sup>3</sup> , 0.51 yd <sup>3</sup> )	
Narrow bucket (0.50 m <sup>3</sup> , 0.65 yd <sup>3</sup> )	
Narrow bucket (0.64 m <sup>3</sup> , 0.84 yd <sup>3</sup> )	
Light duty bucket (0.89 m³, 1.16 yd³)	
Light duty bucket (1.05 m³, 1.37 yd³)	
Heavy duty bucket (0.69 m <sup>3</sup> , 0.90 yd <sup>3</sup> )	
limate control	
Air conditioner only	
Heater only	
Cabin FOPS/FOG (ISO/DIS 10262)	
FOPS (Falling Object Protective Structure)	
FOG (Falling Object Guard)	
Cabin roof-steel cover	
abin lights	
Labin front window rain guard	
rack shoes	
Triple grousers shoe (500mm, 20")	
Triple grousers shoe (700mm, 28")	
Triple grousers shoe (800mm, 32")	
ower frame under cover (Additional)	
Pre-heating system, coolant	
ool kit	
Operator suit Rearview camera	
eat	
Adjustable air suspension seat	
Adjustable air suspension seat Adjustable air suspension seat with heater	
Mechanical suspension seat	
attern change valve (2 patterns)	
li-mate (Remote Management System)	



Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary cording to International standards. All imperial measurements rounded off to the nearest pound or inch.

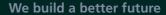
k	
	H. VY IN. ISTRIES CO., LTD.
	CONSTRUCTION EQUIPMENT

J Office (Sales Office)

1 JEONHA-DONG, DONG-GU, ULSAN, KOREA TEL: (82) 52-202-7970, 7729, 0971 FAX: (82) 52-202-7979, 7720 U.S. Operation: Hyundai Construction Equipment U.S.A., Inc. 955 ESTES AVENUE, ELK GROVE VILLAGE, IL. 60007, U.S.A. TEL: (1) 847-437-3333 FAX: (1) 847-437-3574

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## Robex **180**LC-9 With Tier 3 Engine installed

www.hyundai-ce.com

PLEASE CONTACT

2010. 1 Rev. 0





# **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!

YUNDAI

### Undercarriage

Sealed track chair thank als / tandard track rail guard / Comfortable bolt-on steps Large upper reast r cut-outs for debris clean-out / Tapered side frames for debris clean-out / Grease-type track tensioner

#### Engine Tech.

/ reliable, fuel efficient Mitsubishi Tier III D04FD-TAA engine Electronically consolled for optimum fuel to air ratio and clean, efficient combustion Joise Auto engine overheat feature / Anti-restart feature

#### Hyuraulic System Improvements

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

#### Pump Compartment

Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps New compact solenoid block equipped with 3 solenoid valves, 1 EPPR valve, 1 check valve accumulator and pilot filter controls 2 speed travel, power boost, boom priority, safety lock

### **Enhanced Operator Cab**

#### Improved Visibility

Larger right-side glass, now one piece, for better right visibility

#### 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

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

Enhanced self-diagnostic features with GPS download capability One pump flow or two pump flow for optional attachment now selectable through the cluster / New anti-theft system with password capability

Boom speed and arm regeneration are selectable through the monitor. Auto power boost is now available - selectable (on/off) through the monitor. Powerful air conditioning and heat with auto climate control, 20% more heat and air output than 7A series! and support.



- Enlarged cab with improved visibility / See-through upper skylight for visibility and ventilation
- 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
- Ergonomic joysticks with auxiliary control buttons for attachment use. Now with new sleek styling

3 power modes : (P) Power, (S) Standard, (E) Economy, 2 work modes : Dig & Attachment, (U) User mode for operator preference

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

# Preference

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

In 9 series cabin you can easily adjust the seat, console and Operator Comfort Operator Comfort armrest settings to be pair your preferred comfort level. Seat and console position and beight can be set together and independent from each other. Other preference settings that ald to overall operator comfort include the full automatic high capacity airconding system and the CD/MP3 radio.

### **Reduced Stress**

ALC: NOT THE OWNER OF

1945

HYUNDAI

Work is stressful fough. Your tork environment should be stress free. Hyundai's 9 series provides improved cab menicus, additional space and a comfortable seat to minimize stress to the operators coverial clime e control system provides the operator with optimum air temperature. An advice pudio with CD player, AM/FM stereo and MP3 capabilities, plus remotely location controls refect for listening to music favorites. Operations can even talk on the phone with the hands-free cell phone feature.







\*Photo may include optional equipment.



The newly a graned can was conceived for more space, a wider field of view and operator comfore Special attention was given to a clear, open and convenient interior with plenty of visicality 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 - Friendly Cluster**

The advanced new cluster with 7 inch wide color LCD screen and toggle switch allows the operator to select his personal machine preferences. Power and work mode selection, self diagnostics, optional rear-view camera, maintenance check lists, start-up machine security, and video functions were integrated into the cluster to make the machine more versatile and the operator more productive.

# Precision

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

1.

180LC-9

### **Computer Aided Power**

HYUNDAI

Robes

The engine horsepower and hy raulic hosepower together in unison through the advanced CAPO(Computer Aided Power Optimization) system, the ob 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 als provides complete self diagnostic features and digital gauges for important information like hydraulic oil temperature, wate temperatures and fuel level. This system interfaces with multiple sensors placed throughout the hydrauk reten as well as the electronically controlled engine to provide the optimum level of engine power and hydraulic flow.

Pow r Mode

Work Mode

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



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.



\*Photo may include optional equipment.



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.

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.

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

### 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

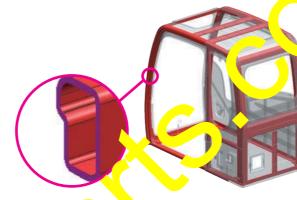
9 series is designed for maximum performance to keep the operator working productively.

HYUNDAI

## 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.



#### T N O C C e F S S t t A S S S S S

Structure Strength

The 9 serves crain specture has been fitted with stronger but share tube a fer more safety and improved visibility. Lowtress, high strength steel is integrally welded to form a cronger, or durable upper and lower frame. Structural integral was tested by way of FEM (Finite Elements Method) analyse and long-term durability tests.



### Easy to maintain engine components

The cooling and preheating system are provided for optimum and immediate operation, guaranteeing longer life for the engine and hydraulic components.

Servicing of the engine and hydraulics is considerably simplified due to total accessibility.



\*Photo may include optional equipment.

### Mitsubishi D04FD-TAA

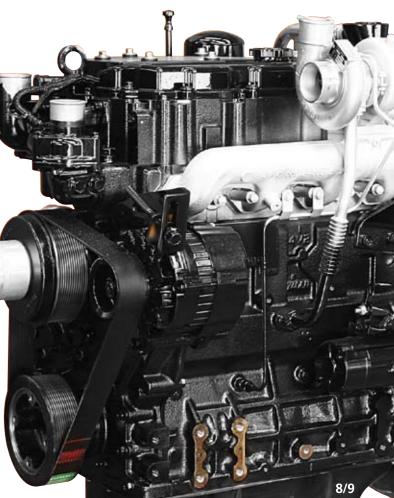
The Tier III, four cylinder, 4 cycle, turbo-charged, charge air cooled, Mitsubishi D04FD-TAA engine provides maximum power, reliability, optimum fuel economy, and reduced emissions. Electronically controlled fuel injection and diagnostic capabilities add to the engines efficiency and serviceability.

### Heavy-duty strength

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

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

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



# **Profitable**

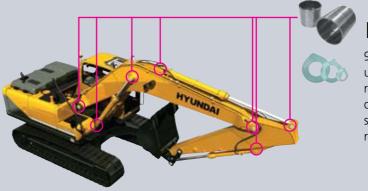
enhanced service features and longer life components.

2.

Robex

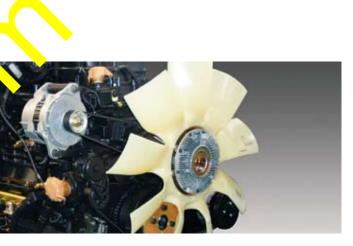
i-n-te (Remote Management System)

Ai-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.





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### Fuel Efficient

9 series excavators are engineered to be extremely fuel efficient. New innovations like fan clutch, the variable speed remote fan, three-stage auto decel system and the new economy mode help to conserve fuel and reduce the impact on the environment.



### Easy Access

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

### Extended Life Components

9 series excavators were designed with extended lubricant bush life & ultra high molecular weight polymer shim (wear resistant, noise reducing), extended-life hydraulic filters (1,000hr), long-life hydraulic oil (5,000hr), more efficient cooling systems and integrated preheating systems to long extend service intervals, minimize operating costs and reduce machine down time.

## Specifications

### ENGINE

MODEL			Mitsubishi D04FD-TAA		
Туре			Water cooled, 4 cycle Diesel, 4-cylinders in line, direct injection, turbocharged charger and air cooled		
Rated	SAE	J1995 (gross)	126 HP (94 kW)/ 2,000 rpm		
	SAE	J1349 (net)	120 HP (90 kW)/ 2,000 rpm		
flywheel		6271/1 (gross)	128 PS (94 kW)/ 2,000 rpm		
horse power	DIN	6271/1 (net)	122 PS (90 kW)/ 2,000 rpm		
Max. torque			47.7 kgf·m(345 lbf·ft)/ 1,800 rpm		
Bore X stroke			102 x 130 mm (4.01" x 5.12")		
Piston			4,249cc (259.3 in <sup>3</sup> )		
Batteries			2 X 12V X 100AH		
Starting motor	r		24V- 5.0kW		
Alternator			24V- 50Amp		

### HYDRAULIC SYSTEM

MAIN PUMP	
Туре	Two variable displacement piston pumps
Rated flow	2 X 160L /min (44.4 US gpm / 37.0 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump	system.
HYDRAULIC MOTORS	
Travel	Two speed axial pistons motor
haver	with brake valve and parking brake
Swing	Axial piston motor with automatic brake
RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm <sup>2</sup> (4,980 psi)
Travel	330 kgf/cm <sup>2</sup> (4,690 psi)
Power boost (boom, arm, bucket)	380 kgf/cm <sup>2</sup> (5,410 psi)
Swing circuit	285 kgf/cm <sup>2</sup> (4,050 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (570 psi)
Service valve	Installed
HYDRAULIC CYLINDERS	
	Boom: 2-115 XI 1,090 mm (4.5" X 42.9")
	Arm: 1-120 X 1,355 mm (4.7" X 53.3")
No. of cylinder	Bucket: 1-110 X 995 mm (4.3" X 39.2")
bore XI stroke	Blade: 2-110 X 320 mm (4.3" X 12.6")
	2PCS 1st: 2-115 X 960 mm (4.5" X 37.8")
	2nd: 1-160 X 650 mm (6.3" X 25.6")

### **DRIVES & BRAKES**

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	17,000 kgf (37,500 lbf)
Max. travel speed(high) / (low)	5.5 km/hr (3.4 mph) / 3.2 km/hr (2.0 mph)
Gradeability	30° (58 %)
Parking brake	Multi wet disc

### CONTROL

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

Pilot control	Two joysticks with one safety lever
	(LH): Swing and arm, (RH): Boom and bucket/
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
Lights	Two lights mounted on the boom
Lights	Two on the upper frame

#### SWING SYSTEM

Swing motor	Two fixed displacement axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	11.3 rpm

### **COOLANT & LUBRICANT CAPACITY**

Refilling	liter	US gal	UK gal
Fuel tank	270	71.3	59.4
Engine coolant	15.5	4.1	3.4
Engine oil	17.5	4.6	3.8
Swing device-gear oil	5.0	1.3	1.1
Final drive(each)-gear oil	5.4	1.4	1.2
Hydraulic system(including tank)	270	71.3	59.4
Hydraulic tank	160	42.3	35.2

### UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	51
No. of carrier roller on each side	2
No. of track roller on each side	8
No. of rail guard on each side	2

### **OPERATING WEIGHT (APPROXIMATE)**

Operating weight, including 5,100mm (16' 9") boom, 2,600mm (8' 6, arm, SA heaped 0.76m³ (0.99 yd³) bucket, lubricant, coolant, full fuel 💋 к, full hydra. wilk. and all standard equipments.

MAJOR	COMPONENT	WEIGHT			
Upperstr	ucture		(د، ټور 10) ي 4,980		
Counterv	veight		2 🗸 J kg 390 lb)		390 lb)
(5.1m (16	" 9")mono boor	n(with arm	cylinder))	· · · · · · · · · · · · · · · · · · ·	,760 lb)
(Hydrauli	c adjustable boo	om(with pri		1,700 kg	(3,920 lb)
OPERAT	ING WEIGHT				
Shoes			Op ting we	eight	Ground pressure
Туре	Width mm(in)		kg(lb)		kgf/cm²(psi)
	500 (20")	1 30LC-9	18,350(40,450	)	0.51(7.25)
		R1 LCD-9	350(42,660)		0.53(7.54)
Triple		R1809	18,600(41,010)		0.43(6.11)
Triple	600 (24")	R180LC-9	19,600(43,210)		0.45(6.40)
grouser	700 (28	Ri JLC-9	18,850(41,560)		0.37(5.26)
		R180LCD-9 19,850(43,76		)	0.39(5.55)
		R180LC-9 19,100(42,11		)	0.33(4.69)
		R180LCD-9	20,100(44,310	)	0.35(4.98)

### BUCKETS

All buckets are welded with high-strength steel.

SAE heaped m³ (yd³)	0.39(0.51	) 0.	.50(0.65)		.8. 0	.76(0.99)	0.89(1.16)	1.05(1.37)	■ 0.69(0.90)
Cap	acity	Wie	dth		/	Ree	commendation mm (f	t-in)	
	(yd³)		ı (in)	Weight	5,	100 (16' 9") Mono Bo	om	5,100 (16' 9") Hydrau	lic Adjustable Boom
SAE heaped	CECE heaped	Without sidecutters	ecutte	kg (/b)	2,200 (7' 3") Arm	2,600 (8' 6") Arm	3,100 (10' 2") Arm	2,200 (7' 3") Arm	2,600 (8' 6") Arm
	,								
0.39(0.51)	0.34(0.44)	620(2 1″)	71")	10(900)	•	•	•	•	•
0.39(0.51)	0.34(0.44) 0.44(0.58)	620(2, 1") 760(29	71") 880(34'5")	470(1,040)	•	•	•	•	•
		OLO/L				• • •	• • •	_	
0.50(0.65)	0.44(0.58)	760(25 92( ,6'2")	880(34'5") 240(40'9")	470(1,040)	٠	• • •	•	_	•
0.50(0.65) 0.64(0.84)	0.44(0.58) 0.55(0.72)	760(25 92( ,6'2")	880(34'5") 240(40'9")	470(1,040) 510(1,120)	٠	• • • •	•	_	•
0.50(0.65) 0.64(0.84) 0.76(0.99)	0.44(0.58) 0.55(0.72) 0.65(0.85)	760(29 92( ,6'2") 1,	880(34/5") 140(40'9") 1,1	470(1,040) 510(1,120) 570(1,260)	• • •	• • • • •	•	_	•

### AT AC IMEN

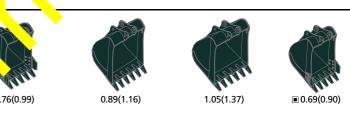
noms ar arms are welded, a low-stress, full-box section design. 5.1m(16' 9") boom, 5.1m(16' 9") hydraulic adjustable boom and 2.20m(7' 3"), 2.60m(8' 6"), 3.10m(10' 2") arms are .....anable.

#### **DIGGING FORCE**

D	Length	mm (ft.in)		5,100 (16' 9")			
Boom	Weight	kg (lb)		1,040 (2,290)		Remarks	
A	Length	mm (ft·in)	2,200 (7' 3") 2,600 (8' 6") 3,100 (10' 2")				
Arm	Weight	kg (lb)	750 (1,560)	810 (1,790)	890 (1,960)		
		kN	107.9 [117.2]	107.9 [117.2]	107.9 [117.2]		
	SAE	kgf	11,000 [11,940]	11,000 [11,940]	11,000 [11,940]		
Bucket		lbf	24,250 [26,330]	24,250 [26,330]	24,250 [26,330]		
digging		kN	123.6 [134.2]	123.6 [134.2]	123.6 [134.2]		
force	ISO	kgf	12,600 [13,680]	12,600 [13,680]	12,600 [13,680]		
		lbf	27,780 [30,160]	27,780 [30,160]	27,780 [30,160]	[]:	
		kN	87.2 [94.7]	77.3 [83.9]	69.0 [74.9]	Power	
	SAE	kgf	8,890 [9,650]	7,880 [8,560]	7,030 [7,630]	Boost	
Arm		lbf	19,600 [21,280]	17,370 [18,860]	15,500 [16,830]		
crowd		kN	91.0 [98.8]	80.3 [87.2]	71.4 [77.5]		
force	ISO	kgf	9,280 [10,080]	8,190[8,890]	7,280 [7,900]		
		lbf	20,460 [22,210]	18,060 [19,600]	16,050 [17,430]		

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

Arm weight includes bucket cylinder, linkage, and pin



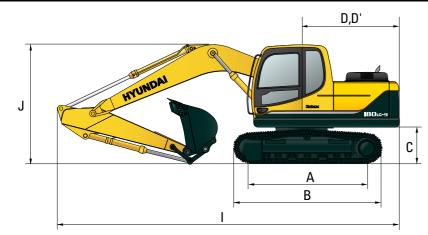
ole for materials with density of 2,000 kg

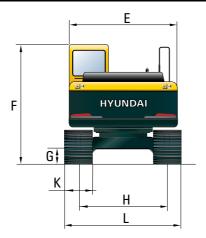
• : Applicable for materials with density of 1,600 kg /m<sup>3</sup> (2,700 lb/ yd<sup>3</sup>) or less

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

### **Dimensions & Working Range**

### **R180LC-9 DIMENSIONS**



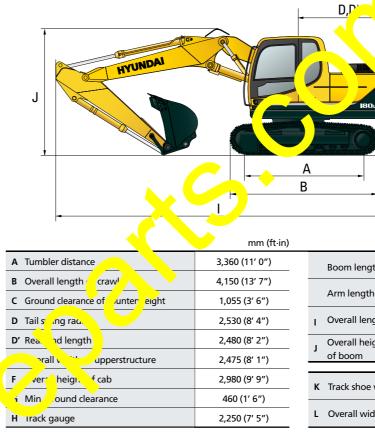


mm (ft·in)

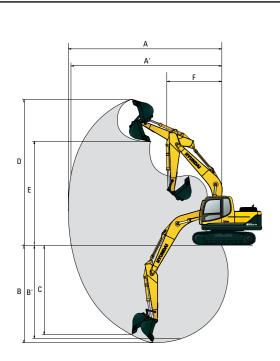
	mm (ft·in)				mm
A Tumbler distance	3,360 (11' 0")	Boom length		5,100(16' 9")	
B Overall length of crawler	4,150 (13' 7")		2,200	2,600	3,100
C Ground clearance of counterweight	1,055 (3' 6")	Arm length	(7' 3")	(8' 6")	(10' 2")
D Tail swing radius	2,530 (8' 4")	I Overall length	8,660 (28'5'')	8,650 (28' 5")	8,650 (28'5'')
D' Rear-end length	2,480 (8' 2")	Overall height	3,010	2,990	3,150
E Overall width of upperstructure	2,475 (8' 1")	of boom	(9′ 11″)	(9' 10")	(10' 4")
F Overall height of cab	2,980 (9' 9")	K Track shoe width	500	600	700
G Min. ground clearance	460 (1' 6")		(20")	(24")	(28")
H Track gauge	2,250 (7' 5")	L Overall width	2,750 (9' 1")	2,850 (9' 5")	2,950 (9' 9")

### **Dimensions & Working Range**

R180LC-9 2-PIECE BOOM DIMENSIONS

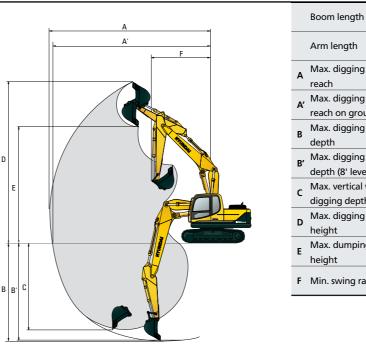


### **R180LC-9 WORKING RANGE**



				1
	Boom length		5,100 (16' 9")	
	Arm length	2,200 (7' 3")	2,600 (8' 6"	(10' 2")
A	Max. digging	8,690	9,020	9,450
	reach	(28' 6")	(7")	(31' 0")
A	Max. digging	8,530	8,8⊾	9,300
	reach on ground	(27' 12")	(29′ 1″)	(30' 6")
В	Max. digging	5,66	5,060	6,560
	depth	(18' 7")	(11")	(21' 6")
B	Max. digging	5,430	5,850	6,370
	depth (8' level)	(17)10")	(19' 2")	(20′ 11″)
c	Max. vertical wall	5,120	5,380	5,710
	digging depth	(16' 10")	(17' 8")	(18' 9")
D	Max. digging	8, 10	8,840	8,980
	height	(28' <mark>'</mark> )	(29' 0")	(29' 6")
E	Max. dumpi	6 0	6,220	6,390
	heig.	20' 1")	(20' 5")	(21' 0")
F	Min. swin <u></u> adius	3, 20 (10' 5")	3,170 (10' 5")	3,170 (10' 5")

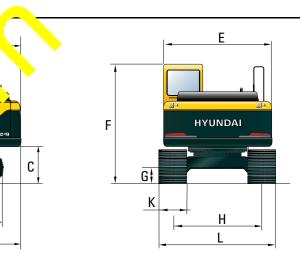
### **R180LC-9 2-PIECE BOOM WORKING RANGE**



1	2,200 (7' 3")	2,600 (8' 6")
ng	8,760 (28′ 9″)	9,110 (29' 11")
ng round	8,590 (28' 2")	8,950 (29′ 4″)
ng	5,430 (17′ 10″)	5,830 (19' 2")
ng evel)	5,330 (17' 6")	5,730 (18′ 10″)
al wall pth	4,630 (15' 2")	4,980 (16' 4")
ng	9,420 (30' 11")	9,610 (31' 6")
oing	6,710 (22' 0")	6,910 (22' 8")
radius	3,100 (10' 2")	2,970 (9' 9")

5,100 (16' 9")

gth		5,100	(16' 9")				
h	2,200 (7′ 3″)		2,600 (8' 6")				
ngth	8,610 (28' 3")		8,610 (28′ 3″)				
ight	3,040 (9' 12")		3,060 (10′ 0″)				
e width	500 (20")		00 4")	700 (28″)			
dth	2,750 (9' 1")		350 5")	2,950 (9' 9")			

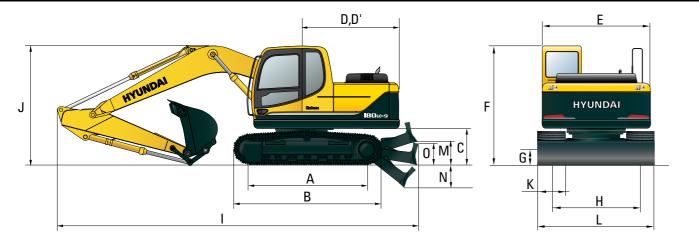


mm (ft·in)

mm (ft·in)

## **Dimensions & Working Range**

### **R180LCD-9 DIMENSIONS**

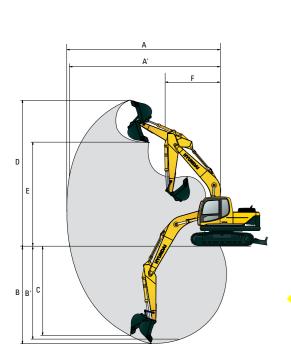


(ft in)

	mm (ft·in)	
A Tumbler distance	3,360 (11' 0")	
B Overall length of crawler	4,150 (13' 7")	_
C Ground clearance of counterweight	1,055 (3' 6")	
D Tail swing radius	2,530 (8' 4")	Т
D' Rear-end length	2,480 (8' 2")	1
E Overall width of upperstructure	2,475 (8' 1")	,
F Overall height of cab	2,980 (9' 9")	к
G Min. ground clearance	460 (1' 6")	-
H Track gauge	2,250 (7′ 5″)	L
M Ground clearance of blade up	615 (2′ 0″)	
N Depth of blade down	675 (2′ 3″)	
O Height of blade	640 (2′ 1″)	

			mm (ft-in)
Boom length		5,100(16' 9")	
Arm length	2,200	2,600	3,100
	(7' 3")	(8' 6")	(10' 2")
Overall length	9,110	9,100	9,100
	(29'11'')	(29' 10")	(29'10'')
Overall height of boom	3,010	2,990	3,150
	(9' 11")	(9' 10")	(10' 4")
Track shoe width	500	600	700
	(20″)	(24")	(28″)
Overall width	2,750	2,850	2,950
	(9' 1")	(9' 5")	(9' 9")

### R180LCD-9 WORKING RANGE



_		,		
	Boom length		5,100 (16' 9")	$\mathbf{\mathbf{\mathcal{N}}}$
	Arm length	2,200 (7′ 3″)	2,600 (8' 6"	(10' 2")
	A Max. digging reach	8,690 (28' 6")	9,020 2' 7")	9,450 (31' 0″)
	A' Max. digging reach on ground	8,530 (27' 12")	8,8⊾ (29′ 1″)	9,300 (30' 6")
	B Max. digging depth	5,66 (18' 7")	5,060 (11")	6,560 (21' 6")
	B' Max. digging depth (8' level)	5,430 (17)10")	5,850 (19' 2")	6,370 (20' 11")
	C Max. vertical wall digging depth	5,120 (16' 10")	5,380 (17' 8")	5,710 (18' 9")
	D Max. digging height	8, '0 (28'_')	8,840 (29' 0")	8,980 (29' 6")
	E Max. dumpi heig.	6 0 20' 1")	6,220 (20' 5")	6,390 (21' 0")
	F Min. swin <u></u> adius	<u>کې کې</u> (10' 5")	3,170 (10' 5")	3,170 (10' 5")

## Lifting Capacity

### R180LC-9

					Load	radius					At max. reach	
Load po		1.5 m (	5.0 ft)	3.0 m (10.0 ft)		🥂 5 m (ʻ	5 m (15. )		20.0 ft)	Capa	Reach	
heigh m (ft		ŀ	ı	÷	∎ <b>⊡</b>	t l	<u>⊫_</u> _)	ŀ		ŀ	œ <b>e</b> )	m (ft)
7.5 m	kg									*3750	*3750	5.60
(25.0 ft)	lb									*8270	*8270	(18.4)
6.0 m	kg									*3660	2920	6.98
(20.0 ft)	lb									*8070	6440	(22.9)
4.5 m	kg					* 70	*4570	*4110	3690	*3690	2370	7.76
(15.0 ft)	lb					10080	*10080	*9060	8140	*8140	5220	(25.5)
3.0m	kg			*9100	*9100	*5790	5620	*4600	3550	3360	2130	8.15
(10.0 ft)	lb			*20060	*20060	*12760	12390	*10140	7830	7410	4700	(26.7)
1.5 m	kg					*7030	5250	*5160	3390	3280	2060	8.20
(5.0 ft)	lb					*15500	11570	*11380	7470	7230	4540	(26.9)
Ground	kg			*7120	*/120	*7680	5030	5250	3270	3420	2150	7.94
Line	lb			*15700	*15700	*16930	11090	11570	7210	7540	4740	(26.0)
-1.5 m	kg	*7040	*7040	*11150	9670	*7590	4970	5200	3230	3900	2450	7.31
(-5.0 ft)	lb	*15520	*15520		21320	*16730	10960	11460	7120	8600	5400	(24.0)
-3.0 m	kg	*11230	*11230	*96	*9630	*6670	5030			*3750	3240	6.19
(-10.0 ft)	lb	*24760	+760	*2127	*21230	*14700	11090			*8270	7140	(20.3)
-4.5 m	kg			* 0	*6270							
(-15.0 ft)	lb	<u> </u>		13820	*13820							

المعطامة						Load	radius					4	At max. read	h
Load po		m د	(5 ft)	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reac
heigh m (	m (*		r er p			ŀ	<u>ت</u>	ŀ	<u>ه</u>	ŀ		ŀ		m (ft
7.5 n	kg											*3380	*3380	6.11
(25.0 ft)	lb											*7450	*7450	(20.0
<u></u>	7							*3020	*3020			*3360	2660	7.37
(20.	<u> </u>							*6660	*6660			*7410	5860	(24.2
4.5	kg							*3770	3720			*3410	2190	8.11
<u>/ _J ft)</u>	lb	<u> </u>						*8310	8200			*7520	4830	(26.6
3.0m	kg			*7910	*7910	*5310	*5310	*4300	3560	*2810	2420	3130	1970	8.48
(10.0 ft)	lb			*17440	*17440	*11710	*11710	*9480	7850	*6190	5340	6900	4340	(27.8
	kg			*8120	*8120	*6650	5270	*4920	3380	*3650	2350	3050	1900	8.53
(5.0 ft)	lb			*17900	*17900	*14660	11620	*10850	7450	*8050	5180	6720	4190	(28.0
Ground	kg			*7910	*7910	*7500	5010	5220	3240	*3470	2280	3170	1970	8.28
Line	lb			*17440	*17440	*16530	11050	11510	7140	*7650	5030	6990	4340	(27.2
-1.5 m	kg	*6710	*6710	*10690	9550	*7620	4900	5140	3170			3560	2220	7.69
(-5.0 ft)	lb	*14790	*14790	*23570	21050	*16800	10800	11330	6990			7850	4890	(25.2
-3.0 m	kg	*9990	*9990	*10280	9680	*6960	4930	*4870	3200			*3750	2830	6.64
(-10.0 ft)	lb	*22020	*22020	*22660	21340	*15340	10870	*10740	7050			*8270	6240	(21.8
-4.5 m	kg			*7470	*7470	*4960	*4960							
(-15.0 ft)	lb		[	*16470	*16470	*10930	*10930		Ι				1	

						Load	radius						At max. reach		
Load p		1.5 m	(5.0 ft)	3.0 m (10.0 ft) 4.5 m (			15.0 ft) 6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach		
heigh m (ft		ŀ	ت <del>ب</del>	ŀ	ت <del>ب</del>	ŀ	E D	ŀ	r (	ľ		ŀ	r (	m (ft)	
7.5 m	kg											*3000	*3000	6.73	
(25.0 ft)	lb											*6610	*6610	(22.1)	
6.0 m	kg							*2870	*2870			*3020	2360	7.88	
(20.0 ft)	lb							*6330	*6330			*6660	5200	(25.9)	
4.5 m	kg							*3350	*3350	*2130	*2130	*3100	1970	8.57	
(15.0 ft)	lb							*7390	*7390	*4700	*4700	*6830	4340	(28.1)	
3.0m	kg					*4710	*4710	*3930	3580	*3090	2420	2870	1780	8.91	
(10.0 ft)	lb					*10380	*10380	*8660	7890	*6810	5340	6330	3920	(29.2)	
1.5 m	kg			*10220	*10220	*6160	5330	*4620	3380	3730	2330	2790	1710	8.96	
(5.0 ft)	lb			*22530	*22530	*13580	11750	*10190	7450	8220	5140	6150	3770	(29.4)	
Ground	kg			*8670	*8670	*7210	5010	*5180	3220	3640	2250	2880	1760	8.73	
Line	lb			*19110	*19110	*15900	11050	*11420	7100	8020	4960	6350	3880	(28.6)	
-1.5 m	kg	*6310	*6310	*10330	9460	*7580	4850	5090	3120	*3230	2210	3190	1960	8.17	
(-5.0 ft)	lb	*13910	*13910	*22770	20860	*16710	10690	11220	6880	*7120	4870	7030	4320	(26.8)	
-3.0 m	kg	*8950	*8950	*10900	9520	*7200	4830	5080	3110			*3630	2430	7.21	
(-10.0 ft)	lb	*19730	*19730	*24030	20990	*15870	10650	11200	6860			*8000	5360	(23.7)	
-4.5 m	kg	*12430	*12430	*8640	*8640	*5790	4950					*3370	*3370	5.59	
(-15.0 ft)	lb	*27400	*27400	*19050	*19050	*12760	10910					*7430	*7430	(18.3)	

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.

The load point is a hook located on the back of the bucket.
 (\*) indicates the load limited by hydraulic capacity.

### Rating over-front 🖙 Rating over-side or 360 degree

### **Lifting Capacity**

### **R180LC-9 2-PIECE BOOM**

Rating over-front ERating over-side or 360 degree

Lander	- ! 4					Load	radius					A	At max. read	h
Load po		1.5 m	(5.0 ft)	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach
heigh m (ft		ŀ	ı ب	ŀ	ت <del>ب</del>	ŀ		ŀ		ŀ	œ <b>e</b> D)	Þ		m (ft)
6.0 m	kg											*3720	2840	7.06
(20.0 ft)	lb											*8200	6260	(23.2)
4.5 m	kg							*4150	3700			3660	2310	7.83
(15.0 ft)	lb							*9150	8160			8070	5090	(25.7)
3.0m	kg					*5840	5630	*4600	3550			3330	2080	8.21
(10.0 ft)	lb					*12870	12410	*10140	7830			7340	4590	(26.9)
1.5 m	kg					*6990	5230	*5120	3380	*3430	2350	3250	2010	8.27
(5.0 ft)	lb					*15410	11530	*11290	7450	*7560	5180	7170	4430	(27.1)
Ground	kg			*6220	*6220	*7560	4990	5270	3250			3400	2100	8.01
Line	lb			*13710	*13710	*16670	11000	11620	7170			7500	4630	(26.3)
-1.5 m	kg	*6220	*6220	*10360	9630	*7410	4930	5220	3200			*3680	2410	7.39
(-5.0 ft)	lb	*13710	*13710	*22840	21230	*16340	10870	11510	7050			*8110	5310	(24.2)
-3.0 m	kg			*9130	*9130	*6390	5010					*3280	3180	6.28
(-10.0 ft)	lb			*20130	*20130	*14090	11050					*7230	7010	(20.6)

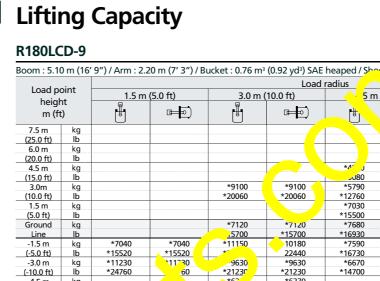
Load point height m (ft)		Load radius											At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach	
					I I I I I I I I I I I I I I I I I I I	ŀ	ter (	ŀ	œ	ŀ	∎∎)		ت <del>ب</del>	m (ft)	
6.0 m	kg											*3420	2580	7.48	
(20.0 ft)	lb											*7540	5690	(24.5)	
4.5 m	kg											3380	2120	8.20	
(15.0 ft)	lb											7450	4670	(26.9)	
3.0m	kg							*4320	3560	*3220	2410	3090	1910	8.57	
(10.0 ft)	lb							*9520	7850	*7100	5310	6810	4210	(28.1)	
1.5 m	kg			*7010	*7010	*6640	5260	*4900	3370	3760	2330	3010	1850	8.62	
(5.0 ft)	lb			*15450	*15450	*14640	11600	*10800	7430	8290	5140	6640	4080	(28.3)	
Ground	kg			*7070	*7070	*7400	4970	5240	3220	3690	2260	3130	1920	8.37	
Line	lb			*15590	*15590	*16310	10960	11550	7100	8140	4980	6900	4230	(27.5)	
-1.5 m	kg	*6050	*6050	*9980	9500	*7450	4870	5160	3150			3520	2170	7.78	
(-5.0 ft)	lb	*13340	*13340	*22000	20940	*16420	10740	11380	6940			7760	4780	(25.5)	
-3.0 m	kg	*9510	*9510	*9830	9650	*6710	4900	*4670	3180			*3320	2770	6.76	
(-10.0 ft)	lb	*20970	*20970	*21670	21270	*14790	10800	*10300	7010			*7320	6110	(22.2)	
-4.5 m	kg			*6820	*6820	*4540	*4540								
(-15.0 ft)	b			*15040	*15040	*10010	*10010								

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.



9630

\*21230 \*6270 \*13820

\*21230

Load point height			Load radius											h
		m د	<u> </u>		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity	
m (		re -	∎E)	ŀ	œ∎©)	ŀ	œ₽©)	ŀ	œ <b>₽</b> ₽	ŀ		ŀ		m (ft)
7.5 n	kg											*3380	*3380	6.11
(25.0 ft)	lb											*7450	*7450	(20.0)
<u> </u>	7							*3020	*3020			*3360	2800	7.37
(20.								*6660	*6660			*7410	6170	(24.2)
4.5	kg							*3770	*3770			*3410	2320	8.11
<u>_(</u>	lb							*8310	*8310			*7520	5110	(26.6)
3.0m	kg			*7910	*7910	*5310	*5310	*4300	3750	*2810	2570	*3500	2090	8.48
(10.0 ft)	lb			*17440	*17440	*11710	*11710	*9480	8270	*6190	5670	*7720	4610	(27.8)
	kg			*8120	*8120	*6650	5550	*4920	3570	*3650	2490	3490	2020	8.53
(5.0 ft)	lb			*17900	*17900	*14660	12240	*10850	7870	*8050	5490	7690	4450	(28.0)
Ground	kg			*7910	*7910	*7500	5280	*5380	3430	*3470	2430	3630	2100	8.28
Line	lb			*17440	*17440	*16530	11640	*11860	7560	*7650	5360	8000	4630	(27.2)
-1.5 m	kg	*6710	*6710	*10690	11060	*7620	5180	*5460	3360			*3810	2360	7.69
(-5.0 ft)	lb	*14790	*14790	*23570	22180	*16800	11420	*12040	7410			*8400	5200	(25.2)
-3.0 m	kg	*9990	*9990	*10280	10180	*6960	5200	*4870	3390			*3750	3000	6.64
(-10.0 ft)	lb	*22020	*22020	*22660	22440	*15340	11460	*10740	7470			*8270	6610	(21.8)
-4.5 m	kg			*7470	*7470	*4960	*4960							
(-15.0 ft)	lb			*16470	*16470	*10930	*10930							

5 m (

<del>ال</del>ا

**1)8**(

\*6670

Boom : 5.1	0 m (16'	9") / Arm :	3.10 m (11' 1	") / Bucket :	0.76 m <sup>3</sup> (0.9	2 yd³) SAE he	eaped / Shoe	: 600mm(24	4") triple gro	user with 2,	900kg (6,390	lb) counter	weight	
Landa	Load point				At max. reach									
			1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity	
height m (ft)		ŀ	E)	ŀ	ت <del>ب</del>	ŀ	ı ب	ŀ	ı ب	ŀ		ŀ	r (	m (ft)
7.5 m	kg											*3000	*3000	6.73
(25.0 ft)	lb											*6610	*6610	(22.1)
6.0 m	kg							*2870	*2870			*3020	2490	7.88
(20.0 ft)	lb							*6330	*6330			*6660	5490	(25.9)
4.5 m	kg							*3350	*3350	*2130	*2130	*3100	2090	8.57
(15.0 ft)	lb							*7390	*7390	*4700	*4700	*6830	4610	(28.1)
3.0m	kg					*4710	*4710	*3930	3770	*3090	2570	*3200	1890	8.91
(10.0 ft)	lb					*10380	*10380	*8660	8310	*6810	5670	*7050	4170	(29.2)
1.5 m	kg			*10220	*10220	*6160	5600	*4620	3570	*3850	2470	3200	1830	8.96
(5.0 ft)	lb			*22530	*22530	*13580	12350	*10190	7870	*8490	5450	7050	4030	(29.4)
Ground	kg			*8670	*8670	*7210	5280	*5180	3410	*4100	2390	3310	1880	8.73
Line	lb			*19110	*19110	*15900	11640	*11420	7520	*9040	5270	7300	4140	(28.6)
-1.5 m	kg	*6310	*6310	*10330	9960	*7580	5120	*5420	3310	*3230	2350	*3570	2090	8.17
(-5.0 ft)	lb	*13910	*13910	*22770	21960	*16710	11290	*11950	7300	*7120	5180	*7870	4610	(26.8)
-3.0 m	kg	*8950	*8950	*10900	10020	*7200	5110	*5110	3300			*3630	2580	7.21
(-10.0 ft)	lb	*19730	*19730	*24030	22090	*15870	11270	*11270	7280			*8000	5690	(23.7)
-4.5 m	kg	*12430	*12430	*8640	*8640	*5790	5230					*3370	*3370	5.59
(-15.0 ft)	lb	*27400	*27400	*19050	*19050	*12760	11530					*7430	*7430	(18.3)

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.

-4.5 m (-15.0 ft)

kg Ib

			At max. reach					
5. <u>4</u>	6.0 m (	(20.0 ft)	Cap	Reach				
r <b>⊫</b> _∂)	ŀ		ŀ		m (ft)			
			*3750	*3750	5.60			
			*8270	*8270	(18.4)			
			*3660	3070	6.98			
			*8070	6770	(22.9)			
*4570	*4110	3880	*3690	2510	7.76			
*10080	*9060	8550	*8140	5530	(25.5)			
*5790	*4600	3740	*3760	2260	8.15			
*12760	*10140	8250	*8290	4980	(26.7)			
5530	*5160	3580	3740	2190	8.20			
12190	*11380	7890	8250	4830	(26.9)			
5310	*5520	3460	3910	2280	7.94			
11710	*12170	7630	8620	5030	(26.0)			
5240	*5450	3420	*3960	2600	7.31			
11550	*12020	7540	*8730	5730	(24.0)			
5300			*3750	3420	6.19			
11680			*8270	7540	(20.3)			

### Rating over-front 💷 Rating over-side or 360 degree