We build a better future

Robex

180LC-9

Equipped with Tier 3 Engine

*Photo may include optional equipment.

HYUNDAI
HEAVY INDUSTRIES EUROPE

Pleasure works

An operator, who takes pleasure in his work, does a better job. That is why we at Hyundai Heavy Industries do everything we can to make that happen. We merged operator preference, fast precision and lasting performance into a quality product. Hyundai 9 series earthmoving equipment simply makes time fly, makes pleasure work!

*Photo may include optional equipment.

Machine Walk-Around

Robust Undercarriage

Track chain with urethane seals / Track rail guard / Comfortable bolt-on steps / Large upper roller cut-outs / Grease-type track adjusters.

Engine Technology

Powerful and reliable, fuel efficient Mitsubishi Tier III D04FD-TAA engine.
Electronical controlled, clean and efficient combustion.
Low noise / Auto engine overheat prevention / Anti-restart function.

Hydraulic System Improvements

New patented hydraulic system for maximum controllability / Improved main control valve for higher efficiency and smoother operation / Auto boom vs. swing priority system for maximum speed / Auto power boost for extra power / Improved arm & boom regeneration for higher speed and better efficiency.

Pump Compartment

Powerful and reliable axial piston pumps, designed by Kawasaki.
Compact solenoid block to control: 2 speed travel, power boost, boom priority, arm regeneration and safety lock.

Enhanced Operators' Cabin

Improved Visibility

Enlarged cabin with improved visibility / See-through sunroof for visibility and ventilation.
Large right-side window, for better visibility on foot of boom.
All windows consist of Safety glass.
Roll-up type sun visor for operators' convenience / Reduced front window seam for improved operator view.

Rigid Cabin Construction

New steel tube construction for increased operator safety, higher protection and better durability.
New front window mechanism designed with spring assist.

Improved Seat & Console

Ergonomic joysticks equipped with auxiliary buttons for attachment use.
Standard mechanic suspension with heater or optional air suspension.
New joystick consoles - adjustable in height.
Adjustable arm rests - for optimum comfort.

Advanced 7" Color Cluster

New Color LCD Display with digital gauges for hydraulic oil temperature, coolant temperature and fuel level.
Toggle switch makes it easier to tune your machine and to check diagnostics. A new developed rear-view camera is integrated into the cluster.
3 power modes : Power / Standard / Economy, 3 work modes : Digging / Breaker / Crusher, User mode for saving operators' preferences.
Enhanced self-diagnostic features with remote access through the Hi-Mate system.
One pump flow or two pump flow summation for optional attachment, selectable through the cluster / Anti-theft system with password entry.
Boom speed and arm regeneration can be adjusted proportionally through the cluster.
Auto power boost in Power-mode - activated through the cluster.
Air conditioning and heater with automatic climate control.
Hi-Mate (Remote Management System) enables machine owners to follow-up machine performance, to verify machine location and to access diagnostic information on a distance through any internet connection.

Preference

An operator, who sets his machine to his needs, takes pleasure in his work.
9 Series respects operator preference with regards to comfort, ease-of-use and controllability. The dashboard cluster with 7 inch screen and toggle switch is the preference nerve centre.

*Photo may include optional equipment.

Spacious Cabin with Excellent Visibility

The spacious cabin is ergonomically designed with low noise levels and high visibility. Special attention was paid to create a clear, open and convenient interior with excellent visibility in all directions. This well balanced operators' environment put the operator in the perfect position to work safely and securely.

Operator Comfort

In a 9 series cabin you can adjust the seat, console and armrests to suit your preferred comfort level. Seat and console can be adjusted in position and height together and independent from each other. A fully automatic, high capacity air conditioning system maintains a constant temperature.

Stressless

Work is stressful enough; your working environment should be stressless. Hyundai's 9 series provides improved cabin interior, additional space and a comfortable seat to minimize the stress of the operator. A powerful climate control system provides the operator with his preferred air temperature. An advanced audio system with CD player, AM/FM stereo and MP3 capabilities, plus remote controls is installed to listen to your preferred music favorites. Operators can even call while operating with the hands-free mobile phone feature.

Easy to Use Cluster

The advanced 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 are integrated into the cluster to make the machine more versatile and the operator more productive.

Precision

An operator, who feels his machine respond smoothly, takes pleasure in his work. 9 Series delivers fast precision by combining smoother hydraulics with wider view and less stress. The innovative Negative hydraulic system combines straightforward technology with superior response.

*Photo may include optional equipment.

Computer Aided Power

The advanced CAPO (Computer Aided Power Optimization) system tunes engine and pump power to optimum levels. Multiple mode selections are implemented for specific applications, maintaining high performance while reducing fuel consumption.
Additional features include auto deceleration and power boost.
The LCD-display monitors engine speed, coolant and hydraulic oil temperature and through the self-diagnostic capability, it displays current error codes. Operators can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button.

Power Mode

Three unique power modes provide the operator with custom engine power, attachment speed and fuel economy. Power-mode maximizes machine speed and power for maximum productivity. Standard-mode provides a reduced, fixed rpm for optimum performance and improved fuel economy. Economy-mode provides precise flow and engine power based on load conditions, for maximum fuel efficiency and controllability.

Work Mode

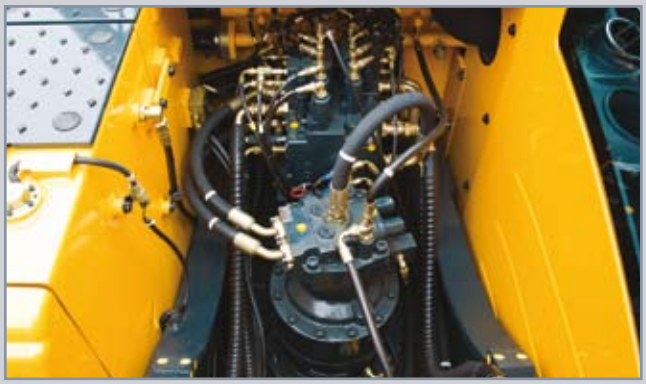
Through the different work modes, the operator can select general digging, single-acting attachments like a hydraulic breaker or double-acting attachments like a crusher. Flow settings can be preset through the cluster.

User Mode

Some jobs require more precise machine settings; some operators prefer different machine settings. Using the User-mode, the operator can customize engine speed, pump output, idle speed and other machine settings according to personal preferences.

Hydraulic System Improvements

To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and top level controllability. Spool valves in the control valve are engineered to provide more precise flow to each function with less effort. Improved hydraulic valves, variable volume piston pumps, fine-touch pilot controls and enhanced travel functions make any operator look like a smooth operator. Newly improved features include arm and boom regeneration, enhanced control valve technology and innovative auto boom and swing priority for best performances in any application.



Auto Boom vs. Swing Priority

This smart function adapts the ideal hydraulic flow balance for the boom and swing operation for your application. The advanced CAPO system monitors the hydraulic operations and adjusts the balance to maximize performance and productivity.

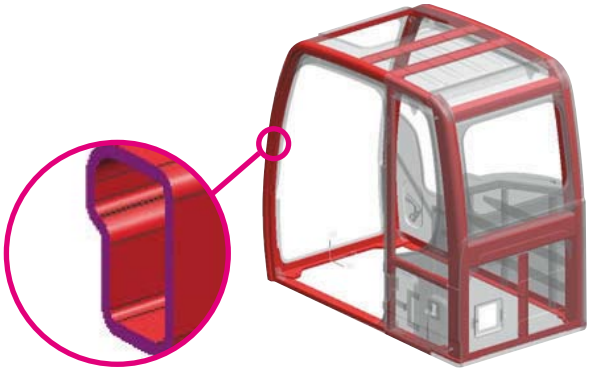
Performance

An operator, who can rely on his machine, takes pleasure in his work. 9 Series stands for lasting performance in strength, speed and reliability. The Auto boom-swing priority results into faster movements and shorter cycle times.

*Photo may include optional equipment.

Track Rail Guard & Adjusters

Durable track rail guards keep tracks in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.



Structural Strength

The 9 series cabin structure is designed with slimmer but stronger tubing for more safety and better visibility. Low-stress and high-strength steel is welded to form a strong and stable lower frame. Structural durability is analyzed and tested by FEM-analysis (Finite Elements Method) and long-term durability tests.

Easy Maintenance Components

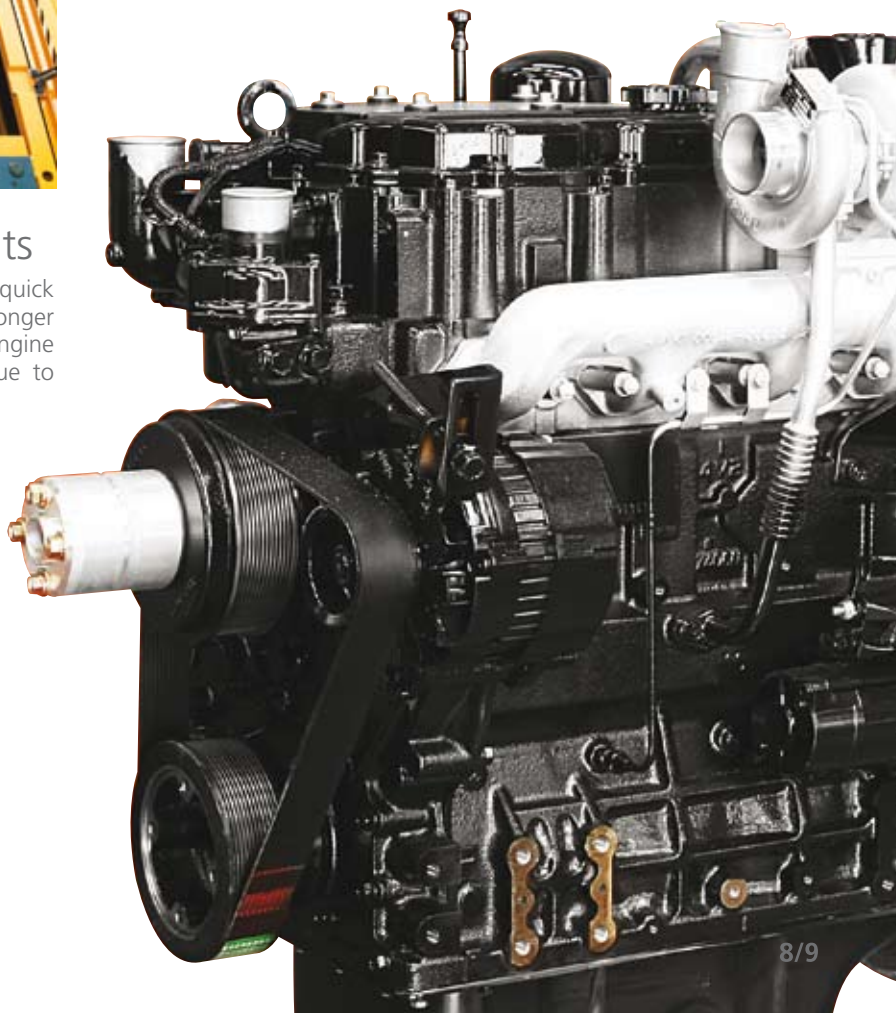
Cooling and pre-heating systems are designed for a quick start-up and an optimal operation, guaranteeing longer life of engine and hydraulic components. Servicing engine and hydraulics has been considerably simplified due to improved accessibility.

Mitsubishi D04FD-TAA Engine

With 4-cylinders, turbo-charger and intercooler, the Mitsubishi D04FD-TAA engine is built for power, economy and reliability. Electronical controlled fuel injection and diagnostic capabilities add efficiency and serviceability to the engine. This engine meets TIER3 / EU stage IIIa emission regulations.

Engine Performance

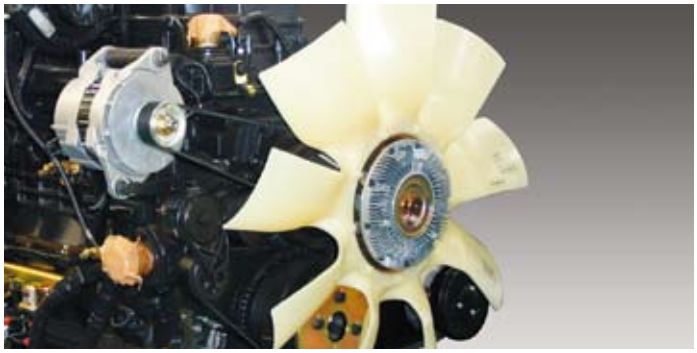
Every operator knows that there's no substitute for power and durability. The Mitsubishi engine handles the toughest loads and the roughest work conditions combined with maximum fuel economy, better cold starting capability and lower noise level. Plus, the heavy-duty design of the D04FD-TAA engine and related components are offering reliability and durability you can count on every day.
Fuel-efficiency and response time are enhanced with the Mitsubishi high pressure common rail fuel system. This fuel system delivers high pressure injection, independent from engine speed, for optimum performance and flexibility at all engine speeds.



Profitable

An owner, who knows his machine saves money, takes pleasure in owning it. 9 Series excavators contribute to your business as a time, fuel, spare-part and cost saving earthmoving solution. The Remote Management System allows machine owners to track, monitor and manage at a distance.

*Photo may include optional equipment.



Fuel Economy

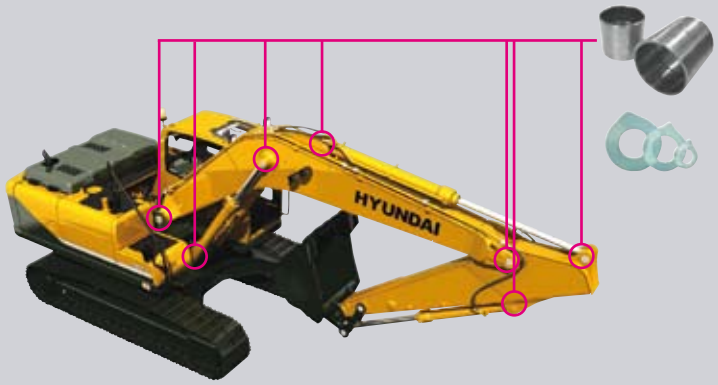
9 series excavators are developed to do more work with less fuel. Implemented innovations like the variable speed fan clutch, two-stage auto decel system and the new economy mode, are helping to save fuel and reduce the impact on the environment.

Hi-mate (Remote Management System)

Hi-mate, Hyundai's newly developed remote management system, using GPS-satellite technology, provides our customers with the highest level of service and product support. Hi-mate enables machine owners to follow-up machine performance, to verify machine location and to access diagnostic information on a distance through any internet connection.

Easy Access

Access from ground to filters, lube fittings, fuses, drains and machine computer components, combined with wide open compartments makes servicing the 9-series a pleasure for your mechanics.



Extended Life of Components

New long-life bushings are designed for extended lube intervals (250 hrs). Wear-resistant polymer shims reduce noise and reduce wear of bushings. Extended-life hydraulic filters last up to 1,000 hrs and new long-life hydraulic oil need only be changed every 5,000 hrs.

Specifications

ENGINE

MODEL			MITSUBISHI D04FD-TAA
Type			Water cooled, 4 cycle Diesel, 4-Cylinders in line, direct injection, turbocharged, charged air cooled and low emission
Rated flywheel horse power	SAE	J1995 (gross)	126 HP (94 kW) / 2,000 rpm
		J1349 (net)	120 HP (90 kW) / 2,000 rpm
	DIN	6271/1 (gross)	128 PS (94 kW) / 2,000 rpm
		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 displacement			4,249 cc (259.3 in^3)
Batteries			2 X 12V X 100AH
Starting motor			24V- 5.0 kW
Alternator			24V- 50 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps
Max. 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 piston motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm^2 (4,980 psi)
Travel	330 kgf/cm^2 (4,690 psi)
Power boost (boom, arm, bucket)	380 kgf/cm^2 (5,410 psi)
Swing circuit	285 kgf/cm^2 (4,050 psi)
Pilot circuit	40 kgf/cm^2 (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder-bore x stroke	Boom : 2 - 115 x 1,090 mm (4.5" x 42.9")
	Arm : 1 - 120 x 1,355 mm (4.7" x 53.3")
	Bucket : 1 - 110 x 995 mm (4.3" x 39.2")
	Blade : 2 - 110 x 320 mm (4.3" x 12.6")
	Boom (Hydraulic adjustable boom) : 2 - 115 x 960 mm (4.5" x 37.8")
	Hydr. adjustable boom : 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 gear reduction
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 (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
Lights	Two lights mounted on the boom, Two on the upper frame

SWING SYSTEM

Swing motor	Axial piston 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
Travel motor (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 rollers on each side	2
No. of track rollers on each side	8
No. of rail guards on each side	2

OPERATING WEIGHT (APPROXIMATE)

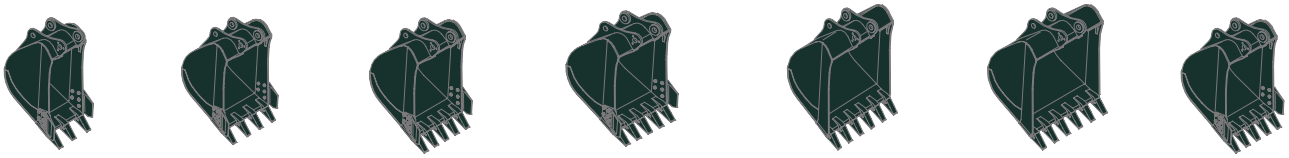
Operating weight, including 5,100 mm (16' 9") boom, 2,600 mm (8' 6") arm, SAE heaped 0.76 m^3 (0.99 yd^3) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	4,980 kg (10,980 lb)
Counterweight	2,900 kg (6,390 lb)
5,100 mm (16' 9") Mono boom (with arm cylinder)	1,250 kg (2,760 lb)
Hydraulic adjustable boom (with arm cylinder)	1,780 kg (3,920 lb)

OPERATING WEIGHT				
Shoes			Operating weight	Ground pressure
Type	Width mm (in)		kg (lb)	kgf/cm^2 (psi)
Triple grouser	500 (20")	R180LC-9	18,350 (40,450)	0.51 (7.25)
		R180LCD-9	19,350 (42,660)	0.53 (7.54)
	600 (24")	R180LC-9	18,600 (41,010)	0.43 (6.11)
		R180LCD-9	19,600 (43,210)	0.45 (6.40)
	700 (28")	R180LC-9	18,850 (41,560)	0.37 (5.26)
		R180LCD-9	19,850 (43,760)	0.39 (5.55)
	800 (32")	R180LC-9	19,100 (42,110)	0.33 (4.69)
		R180LCD-9	20,100 (44,310)	0.35 (4.98)

BUCKETS

All buckets are welded with high-strength steel



0.39 (0.51) | 0.50 (0.65) | 0.64 (0.84) | 0.76 (0.99) | 0.89 (1.16) | 1.05 (1.37) | ▣0.69 (0.90)

SAE heaped m³ (yd³)

Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation m (ft.in)				
					5.10 (16′ 9″) Mono boom			5.10 (16′ 9″) Hydraulic adjustable boom	
SAE heaped	CECE heaped	Without side cutters	With side cutters		2.20 (7′ 3″) Arm	2.60 (8′ 6″) Arm	3.10 (10′ 2″) Arm	2.20 (7′ 3″) Arm	2.60 (8′ 6″) Arm
0.39 (0.51)	0.34 (0.44)	620 (24′4″)	740 (29′1″)	410 (900)	●	●	●	●	●
0.50 (0.65)	0.44 (0.58)	760 (29′9″)	880 (34′6″)	470 (1,040)	●	●	●	●	●
0.64 (0.84)	0.55 (0.72)	920 (36′2″)	1,040 (40′9″)	510 (1,120)	●	●	■	●	■
0.76 (0.99)	0.65 (0.85)	1,060 (41′7″)	1,180 (46′5″)	570 (1,260)	●	■	▲	■	▲
0.89 (1.16)	0.77 (1.01)	1,220 (48′0″)	1,340 (52′8″)	610 (1,340)	■	▲	–	▲	–
1.05 (1.37)	0.90 (1.18)	1,400 (55′1″)	1,520 (59′8″)	680 (1,500)	▲	–	–	▲	–
▣ 0.69 (0.90)	0.62 (0.81)	990 (39′0″)	-	700 (1,540)	●	■	▲	■	▲

▣ Heavy duty bucket

● : Applicable for materials with density of 2,000 kg/m³ (3,370 lb/yd³) or less
■ : Applicable for materials with density of 1,600 kg/m³ (2,700 lb/yd³) or less
▲ : Applicable for materials with density of 1,100 kg/m³ (1,850 lb/yd³) or less

ATTACHMENT

Booms and arms are welded, a low-stress, full-box section design. 5.1 m (16′ 9″) mono boom, 5.1 m (16′ 9″) hydraulic adjustable boom and 2.20 m (7′ 3″); 2.60 m (8′ 6″) and 3.10 m(10′ 2″) arms are available.

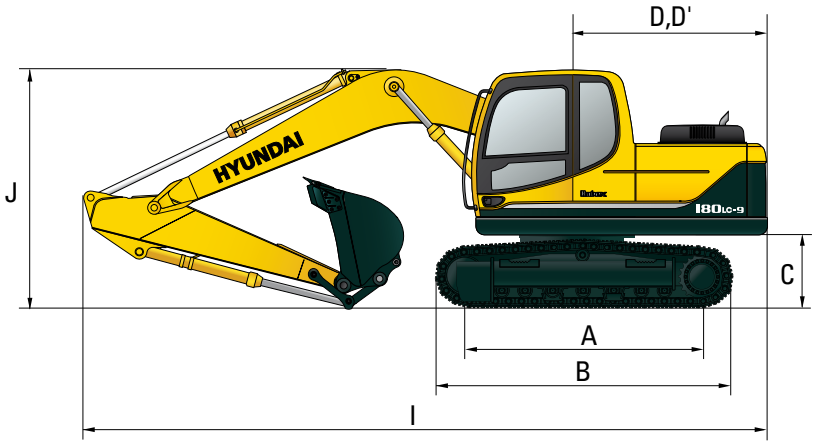
DIGGING FORCE

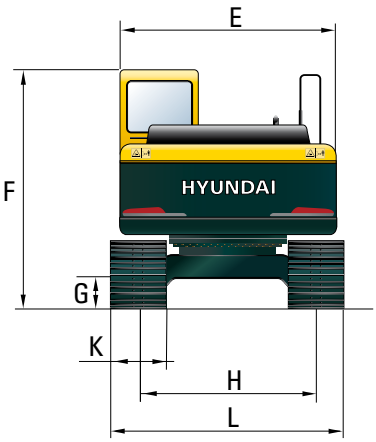
Boom	Length	mm (ft.in)	5,100 (16′ 9″)			Remarks
	Weight	kg (lb)	1,040 (2,290)			
Arm	Length	mm (ft.in)	2,200 (7′ 3″)	2,600 (8′ 6″)	3,100 (10′ 2″)	
	Weight	kg (lb)	750 (1,560)	810 (1,790)	890 (1,960)	
Bucket digging force	SAE	kN	107.9 [117.2]	107.9 [117.2]	107.9 [117.2]	[ ]: Power Boost
		kgf	11,000 [11,940]	11,000 [11,940]	11,000 [11,940]	
		lbf	24,250 [26,330]	24,250 [26,330]	24,250 [26,330]	
	ISO	kN	123.6 [134.2]	123.6 [134.2]	123.6 [134.2]	
		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]	
Arm crowd force	SAE	kN	87.2 [94.7]	77.3 [83.9]	69.0 [74.9]	
		kgf	8,890 [9,650]	7,880 [8,560]	7,030 [7,630]	
		lbf	19,600 [21,280]	17,370 [18,860]	15,500 [16,830]	
	ISO	kN	91.0 [98.8]	80.3 [87.2]	71.4 [77.5]	
		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

Dimensions & Working Ranges

DIMENSIONS R180LC-9





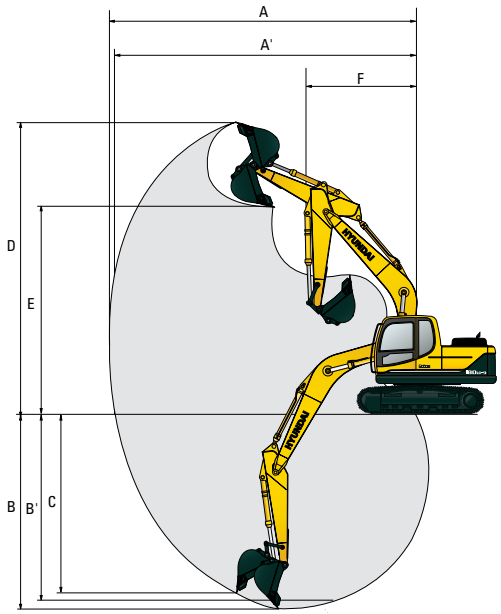
mm (ft · in)

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″)
D′	Rear-end length	2,480 (8′ 2″)
E	Overall width of upperstructure	2,475 (8′ 1″)
F	Overall height of cab	2,980 (9′ 9″)
G	Min. ground clearance	460 (1′ 6″)
H	Track gauge	2,250 (7′ 5″)

mm (ft · in)

	Boom length	5,100 (16′ 9″)		
	Arm length	2,200 (7′ 3″)	2,600 (8′ 6″)	3,100 (10′ 2″)
I	Overall length	8,660 (28'5'')	8,650 (28′ 5″)	8,650 (28'5'')
J	Overall height of boom	3,010 (9′ 11″)	2,990 (9′ 10″)	3,150 (10′ 4″)
K	Track shoe width	500 (20″)	600 (24″)	700 (28″)
L	Overall width	2,750 (9′ 1″)	2,850 (9′ 5″)	2,950 (9′ 9″)

WORKING RANGES R180LC-9

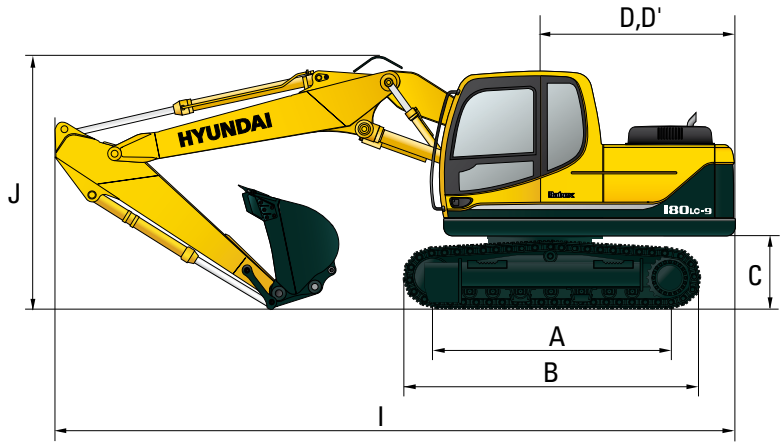


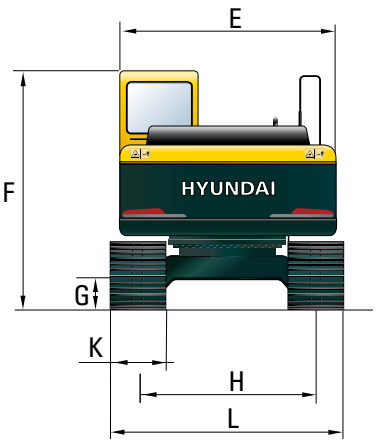
mm (ft · in)

	Boom length	5,100 (16′ 9″)		
	Arm length	2,200 (7′ 3″)	2,600 (8′ 6″)	3,100 (10′ 2″)
A	Max. digging reach	8,690 (28′ 6″)	9,020 (29′ 7″)	9,450 (31′ 0″)
A′	Max. digging reach on ground	8,530 (27′ 12″)	8,860 (29′ 1″)	9,300 (30′ 6″)
B	Max. digging depth	5,660 (18′ 7″)	6,060 (19′ 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	8,750 (28′ 8″)	8,840 (29′ 0″)	8,980 (29′ 6″)
E	Max. dumping height	6,110 (20′ 1″)	6,220 (20′ 5″)	6,390 (21′ 0″)
F	Min. swing radius	3,180 (10′ 5″)	3,170 (10′ 5″)	3,170 (10′ 5″)

Dimensions & Working Ranges

DIMENSIONS R180LC-9 / HYDRAULIC ADJUSTABLE BOOM





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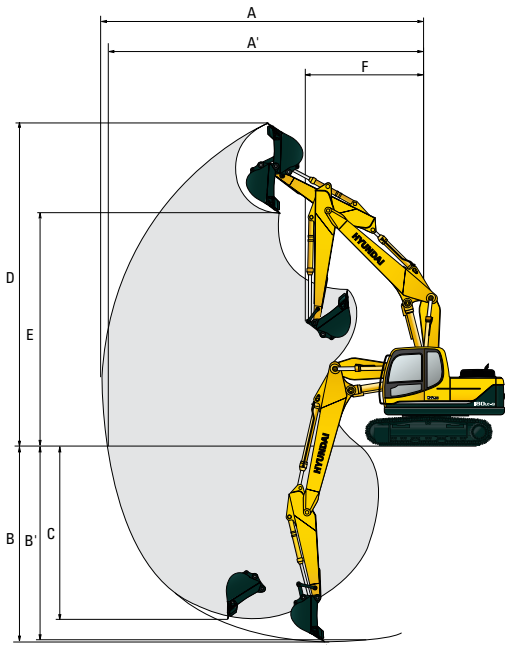
mm (ft · in)

	Boom length	5,100 (16′ 9″)	
	Arm length	2,200 (7′ 3″)	2,600 (8′ 6″)
I	Overall length	8,610 (28′ 3″)	8,610 (28′ 3″)
J	Overall height of boom	3,040 (9′ 12″)	3,060 (10′ 0″)

K	Track shoe width	500 (20″)	600 (24″)	700 (28″)
L	Overall width	2,750 (9′ 1″)	2,850 (9′ 5″)	2,950 (9′ 9″)

WORKING RANGES R180LC-9 / HYDRAULIC ADJUSTABLE BOOM

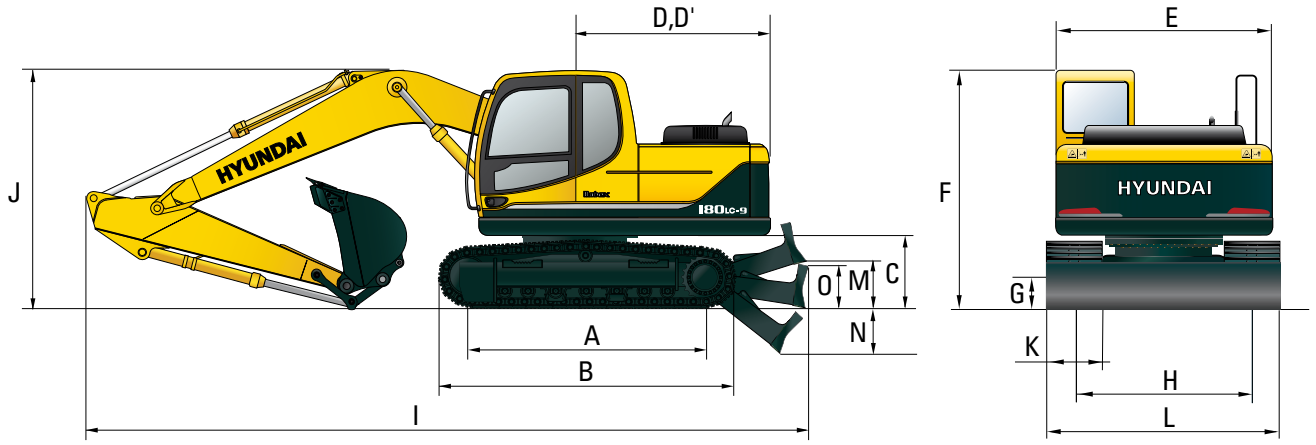
mm (ft · in)



	Boom length	5,100 (16′ 9″)	
	Arm length	2,200 (7′ 3″)	2,600 (8′ 6″)
A	Max. digging reach	8,760 (28′ 9″)	9,110 (29′ 11″)
A′	Max. digging reach on ground	8,590 (28′ 2″)	8,950 (29′ 4″)
B	Max. digging depth	5,430 (17′ 10″)	5,830 (19′ 2″)
B′	Max. digging depth (8′ level)	5,330 (17′ 6″)	5,730 (18′ 10″)
C	Max. vertical wall digging depth	4,630 (15′ 2″)	4,980 (16′ 4″)
D	Max. digging height	9,420 (30′ 11″)	9,610 (31′ 6″)
E	Max. dumping height	6,710 (22′ 0″)	6,910 (22′ 8″)
F	Min. swing radius	3,100 (10′ 2″)	2,970 (9′ 9″)

Dimensions & Working Ranges

DIMENSIONS R180LCD-9



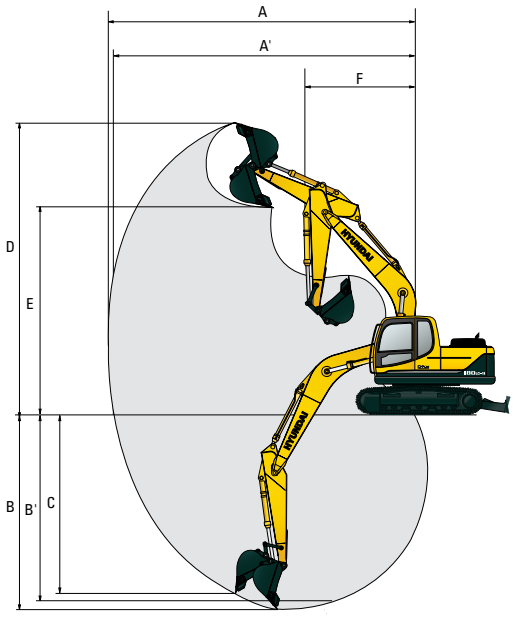
mm (ft · in)

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″)
D′	Rear-end length	2,480 (8′ 2″)
E	Overall width of upperstructure	2,475 (8′ 1″)
F	Overall height of cab	2,980 (9′ 9″)
G	Min. ground clearance	460 (1′ 6″)
H	Track gauge	2,250 (7′ 5″)
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 (7′ 3″)	2,600 (8′ 6″)	3,100 (10′ 2″)
I	Overall length	9,110 (29'11'')	9,100 (29′ 10″)	9,100 (29'10'')
J	Overall height of boom	3,010 (9′ 11″)	2,990 (9′ 10″)	3,150 (10′ 4″)
K	Track shoe width	500 (20″)	600 (24″)	700 (28″)
L	Overall width	2,750 (9′ 1″)	2,850 (9′ 5″)	2,950 (9′ 9″)

WORKING RANGES R180LCD-9



mm (ft · in)

	Boom length	5,100 (16′ 9″)		
	Arm length	2,200 (7′ 3″)	2,600 (8′ 6″)	3,100 (10′ 2″)
A	Max. digging reach	8,690 (28′ 6″)	9,020 (29′ 7″)	9,450 (31′ 0″)
A′	Max. digging reach on ground	8,530 (27′ 12″)	8,860 (29′ 1″)	9,300 (30′ 6″)
B	Max. digging depth	5,660 (18′ 7″)	6,060 (19′ 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	8,750 (28′ 8″)	8,840 (29′ 0″)	8,980 (29′ 6″)
E	Max. dumping height	6,110 (20′ 1″)	6,220 (20′ 5″)	6,390 (21′ 0″)
F	Min. swing radius	3,180 (10′ 5″)	3,170 (10′ 5″)	3,170 (10′ 5″)

Lifting Capacities

R180LC-9 / MONO BOOM

Rating over-front Rating over-side or 360 degrees

Boom : 5.10 m (16′ 9″) / Arm : 2.20 m (7′ 3″) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (24″) triple grouser with 2,900 kg (6,390 lb) counterweight

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		Reach
												m (ft)
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					*4570	*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	*7120	*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	*24580	21320	*16730	10960	11460	7120	8600	5400	(24.0)
-3.0 m	kg	*11230	*11230	*9630	*9630	*6670	5030			*3750	3240	6.19
(-10.0 ft)	lb	*24760	*24760	*21230	*21230	*14700	11090			*8270	7140	(20.3)
-4.5 m	kg			*6270	*6270							
(-15.0 ft)	lb			*13820	*13820							

Boom : 5.10 m (16′ 9″) / Arm : 2.60 m (8′ 6″) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (24″) triple grouser with 2,900 kg (6,390 lb) counterweight

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach
														m (ft)
7.5 m	kg											*3380	*3380	6.11
(25.0 ft)	lb											*7450	*7450	(20.0)
6.0 m	kg							*3020	*3020			*3360	2660	7.37
(20.0 ft)	lb							*6660	*6660			*7410	5860	(24.2)
4.5 m	kg							*3770	3720			*3410	2190	8.11
(15.0 ft)	lb							*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)
1.5 m	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							

Boom : 5.10 m (16′ 9″) / Arm : 3.10 m (11′ 1″) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (24″) triple grouser with 2,900 kg (6,390 lb) counterweight

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach
														m (ft)
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)

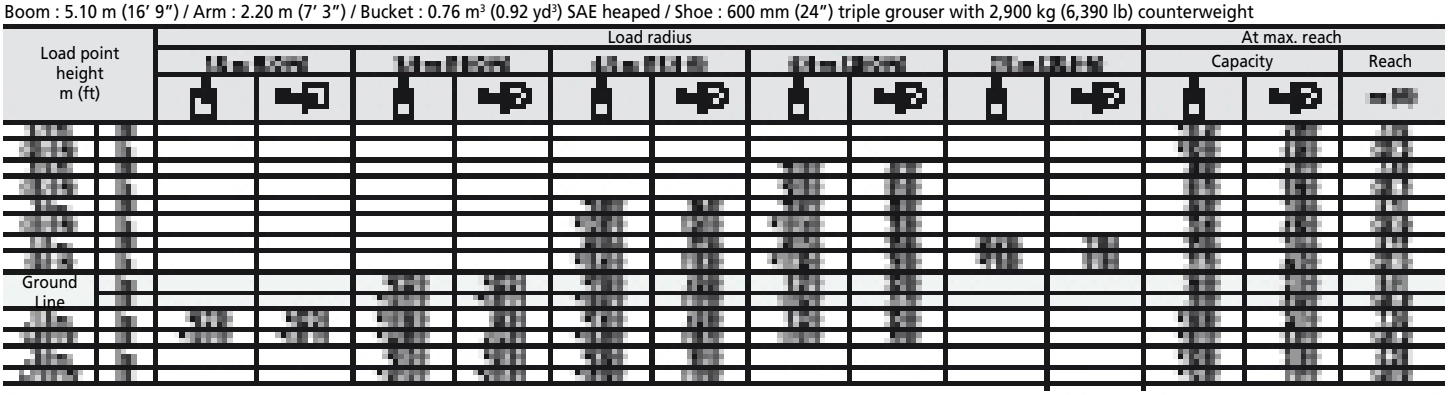
1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

Lifting Capacities

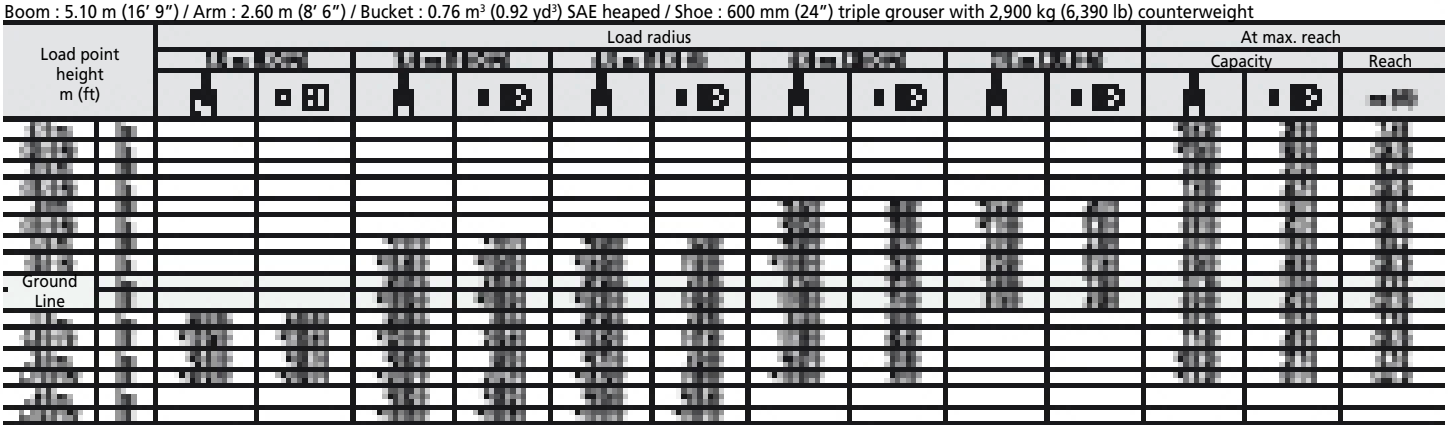
R180LC-9 / HYDRAULIC ADJUSTABLE BOOM

Rating over-front Rating over-side or 360 degrees

Boom : 5.10 m (16′ 9″) / Arm : 2.20 m (7′ 3″) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (24″) triple grouser with 2,900 kg (6,390 lb) counterweight



Boom : 5.10 m (16′ 9″) / Arm : 2.60 m (8′ 6″) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (24″) triple grouser with 2,900 kg (6,390 lb) counterweight



1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

Lifting Capacities

R180LCD-9

Rating over-front Rating over-side or 360 degrees

Boom : 5.10 m (16′ 9″) / Arm : 2.20 m (7′ 3″) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (24″) triple grouser with 2,900 kg (6,390 lb) counterweight

Load point height m (ft)	Load radius								At max. reach	
									Capacity	Reach
Ground Line										

Boom : 5.10 m (16′ 9″) / Arm : 2.60 m (8′ 6″) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (24″) triple grouser with 2,900 kg (6,390 lb) counterweight

Load point height m (ft)	Load radius										At max. reach	
											Capacity	Reach
Ground Line												

Boom : 5.10 m (16′ 9″) / Arm : 3.10 m (11′ 1″) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (24″) triple grouser with 2,900 kg (6,390 lb) counterweight

Load point height m (ft)	Load radius										At max. reach	
											Capacity	Reach
Ground Line												

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.

STANDARD EQUIPMENT

- ISO Standard cabin
  - All-weather steel cabin with 360° visibility
  - Safety glass windows
  - Rise-up type windshield wiper
  - Sliding fold-in front window
  - Sliding side window
  - One key fits all lockable doors
  - Hot & cool box
  - Storage compartment & ashtray
  - Transparent cabin roof-cover
  - CD/MP3 Player with AUX-input
  - Handsfree mobile phone system with USB-charging device
  - Sun visor
- Computer aided power optimization (New CAPO) system
  - 3-power modes, 2-work modes, User mode
  - Auto & one-touch deceleration system
  - Auto warm-up system
  - Overheat prevention system
- Automatic temperature 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
  - Clock
  - Gauges
  - - Fuel level gauge
  - - Engine coolant temperature gauge
  - - Hyd. oil temperature gauge
  - Warning lamps
  - - Engine warning
  - - Overload
  - - Communication error
  - - Low battery
  - - Air filter clogging
  - Indicators
  - - Max power
  - - Low speed/High speed
  - - Fuel warmer
  - - Auto idle
- Two outside rearview mirrors
- Mechanical suspension with heater
- Adjustable joysticks
- Console box height adjust system
- 4 front working lights
- Electric horn
- Batteries (2 x 12 V x 100 AH)
- Battery master switch
- Removable clean-out screen for cooler
- Automatic swing brake
- Removable reservoir tank
- Fuel pre-filter with fuel warmer
- Boom holding system
- Arm holding system
- Counterweight (2,950 kg; 6,500 lb)
- Track shoes (600 mm; 24”)
- Track rail guard
- Accumulator for lowering work equipment
- Electric transducer
- Lower frame under cover
- Viscous fan clutch

OPTIONAL EQUIPMENT

- Fuel filler pump (35 L/min)
- Beacon lamp
- Safety lock valve for boom cylinder with overload warning device
- Safety lock valve for arm cylinder
- Single-acting piping kit (breaker, etc.)
- Double-acting piping kit (clamshell, etc.)
- Quick coupler
- 12 volt power outlet (24V DC to 12V DC converter)
- Travel alarm
- Arms
  - Short arm (2.2 m; 7’ 3”)
  - Long arm (3.1 m; 10’ 2”)
- Bucket
  - Various optional buckets (SAE heaped)
  - Standard bucket (0.76 m^3; 0.92 yd^3)
  - Narrow bucket (0.39 m^3; 0.51 yd^3)
  - Narrow bucket (0.50 m^3; 0.65 yd^3)
  - Narrow bucket (0.64 m^3; 0.84 yd^3)
  - Light duty bucket (0.89 m^3; 1.16 yd^3)
  - Light duty bucket (1.05 m^3; 1.37 yd^3)
  - Heavy duty bucket (0.69 m^3; 0.90 yd^3)
- Temperature 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
- Cabin lights
- Rain guard - front window
- Track shoes
  - Triple grousers shoe (500 mm; 20”)
  - Triple grousers shoe (700 mm; 28”)
  - Triple grousers shoe (800 mm; 32”)
- Additional cover under lower frame
- Coolant pre-heating system
- Tool kit
- Operator suit
- Rearview camera
- Seat
  - Adjustable air suspension seat
  - Adjustable air suspension seat with heater
  - Mechanical suspension seat
- Pattern change valve (2 patterns)
- Hi-mate (Remote Management System)

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

PLEASE CONTACT

HYUNDAI
HEAVY INDUSTRIES EUROPE
CONSTRUCTION EQUIPMENT

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VOSSENDAAL 11, 2440 GEEL, BELGIUM **TEL**: (32) 14-56-2200 FAX: (32) 14-59-3405