

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-steel cover
Radio & USB Player
12 volt power outlet (24V DC to 12V DC converter)
Computer aided power optimization (New CAPO) system
3-power mode, 2-work mode, user mode
Auto deceleration & one-touch deceleration system
Auto warm-up system
Auto overheat prevention system

Automatic climate control

Air conditioner & heater
Defroster

Self-diagnostics system

Starting Aid (air grid heater) for cold weather

Centralized monitoring

LCD display
Engine speed or Trip meter/Accel.
Clock
Gauges
Fuel level gauge
Engine coolant temperature gauge
Hyd. oil temperature gauge
Warnings
Check engine
Communication error
Low battery
Air cleaner clogging
Indicators
Max power
Low speed/High speed
Fuel warmer
Auto idle

Door and cab locks, one key

Two outside rearview mirrors

Fully adjustable suspension seat with seat belt

Pilot-operated slidable joystick

Four front working lights

Electric horn

Batteries (2 x 12V x 100 AH)

Battery master switch

Removable clean-out dust net for cooler

Automatic swing brake

Removable reservoir tank

Fuel pre-filter with fuel warmer

Boom holding system

Arm holding system

Accumulator for lowering work equipment

Electric Transducer

Lower frame under cover (Normal)

Tires-dual (9.00-20-14PR)

Travel alarm

Rear dozer blade

OPTIONAL EQUIPMENT

Fuel filler pump (35 L/min)

Beacon lamp

Single-acting piping kit (breaker, etc.)

Double-acting piping kit (clamshell, etc.)

Quick coupler

Booms

4.6m, 15' 1"

Arms

1.9m, 6' 3"

2.1m, 6' 11"

2.5m, 8' 2"

3.0m, 9' 10"

Cabin FOPS/FOG (ISO/DIS 10262 Level II)

FOPS (Falling Object Protective Structure)

FOG (Falling Object Guard)

Cabin guard-front

Wire net

Fine net

Cabin lights

Cabin front window rain guard

Sun visor

Undercarriage

Rear outrigger

Rear dozer and front outrigger

Rear and front outrigger

Rear outrigger and front dozer

Lower frame under cover (Additional)

Pre-heating system, coolant

Tool kit

Operator suit

Rearview camera

Seat

Mechanical suspension seat with heater

Tires - dual (9.00 - 20 solid)

Fenders (Mudguards)

Hi-mate (Remote Management System)

Air compressor

Precleaner

Rear work lamp

* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.

* The photos may include attachments and optional equipment that are not available in your area.

* Materials and specifications are subject to change without advance notice.

* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

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We build a better future

Robex
140w-9s

With Tier 2 Engine installed



*Photo may include optional equipment.

 **HYUNDAI**
HEAVY INDUSTRIES CO.,LTD.

Pride at Work

Hyundai Heavy Industries strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality. Take pride in your work with Hyundai!

Robex 140w-95

Machine Walk-Around

Engine Technology

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

Hydraulic System Improvements

New patented hydraulic control system 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 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 safety lock, power boost, arm-in regeneration control, boom priority (swing logic valve control)
Remotely mounted fuel, engine oil and case drain filters for maximum convenience while servicing

Carrier

Heavy duty carrier frame with two speed powershift transmission
Heavy duty drive line and axles / Front axle oscillation +/- 7 degrees with ram lock
Wet disc brake (front & rear) / Automatic parking brake - spring applied, hydraulically released

Improved Steering Column

Slim-profile steering column capable of telescoping 60 mm and tilting 30 degrees

Enhanced Operator Cab

Improved visibility

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

Improved Cab Construction

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

Improved Suspension Seat / Console Assembly

Ergonomic joysticks with auxiliary control buttons for attachment use, now with new sleek styling
Adjustable arm rests - turn dial to raise or lower for optimum comfort

Advanced 7" Color Cluster

New color LCD display with easy-to-read digital gauges for hydraulic oil temperature, water temperature, and fuel. Simplified design makes adjustment and diagnostics easier. Also, new enhanced features such as rear-view camera are integrated into monitor

3 power modes : (P) Power, (S) Standard, (E) Economy

2 work modes : Dig & Attachment, (U) User mode for operator preference

Enhanced self-diagnostic features with GPS/satellite technology

One pump flow or two pump flow for optional attachment now selectable through the cluster

New anti-theft system with password capability

Boom speed and arm regeneration are selectable through the monitor

Auto power boost is now available - selectable (on/off) through the monitor

Powerful air conditioning and heat with auto climate control, 20% more heat and air output than 7 series!

Hi-Mate (Remote Management System) works through GPS/Satellite technology to ultimately provide better customer service and support



*Photo may include optional equipment.

Preference

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



*Photo may include optional equipment.



Wide Cabin with Excellent Visibility

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. Special attention was given to a clear, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of precision aspects put the operator in the perfect position to work safely and securely.

Operator Comfort

In a 9S series cabin you can easily adjust the seat, console and armrest settings to best suit your personal operating preferences. Seat and console position can be set together and independent from each other. Improved steering wheel telescope and tilt functions provide operators improved access. A fully automatic, high capacity airconditioning system maintains a constant preferred temperature.



Reduced Stress

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



Operator - Friendly Cluster

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



Precision

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



*Photo may include optional equipment.

Computer Aided Power

The engine horsepower and hydraulic horsepower together in unison through the advanced CAPO(Computer Aided Power Optimization) system, flow for the job at hand. Operator can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button.

The CAPO system also provides complete self diagnostic features and digital gauges for important information like hydraulic oil temperature, water temperatures and fuel level. This system interfaces with multiple sensors placed throughout the hydraulic system as well as hydraulic flow.

- Power Mode** P (Power Max) mode maximizes machine speed and power for mass production. S (Standard) mode provides a reduced, fixed rpm for optimum performance and improved fuel economy. For maximum fuel savings and improved control, E (Economy) mode provides precise flow based on load demand. Three unique power modes provide the operator with custom power, speed and fuel economy.
- Work Mode** The work mode allows the operator to select single flow attachments like a hydraulic breaker or bi-directional flow attachments like a crusher. Flow settings unique to each attachment can be programmed from within the cluster.
- User Mode** Some jobs require more precise machine settings. Using the versatile U (User) mode, the operator can customize engine speed, pump output, idle speed and other machine settings for the job at hand.

Improved Hydraulic System



To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption.

Improved spool valves in the control valve are engineered to provide more precise flow to each function with less effort.

Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9S series look like a smooth operator. Newly improved features

include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance in any application.



Auto Boom-swing Priority

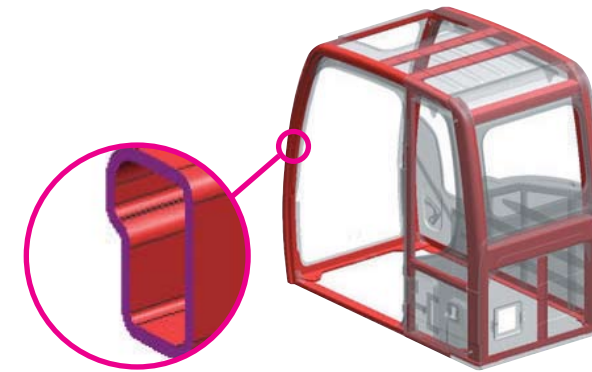
This smart function automatically and continuously looks the ideal hydraulic flow balance for the boom and swing motions of the machine. The advanced CAPO system monitors the hydraulic system and adjusts its settings to maximize performance and productivity.

Performance

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

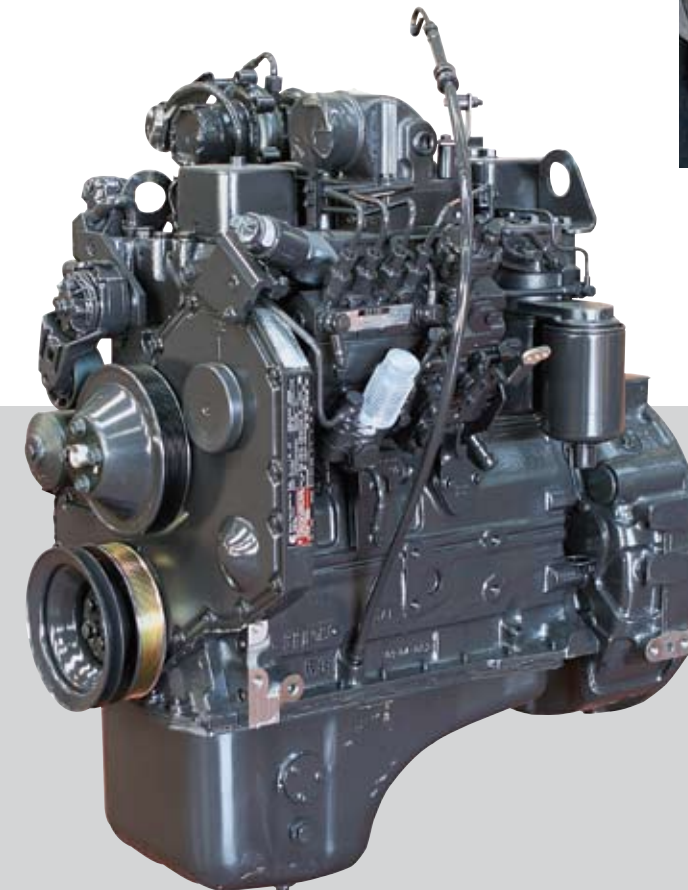


*Photo may include optional equipment.



Structural Strength

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



Improved Durability

9S series excavators are equipped with stainless spring guards to protect the hoses from external damages. Both dozer and outrigger are equipped with cylinder guards for added protection.

New Auto Ram Lock System

During not traveling in work-mode, a new auto ram lock system is available to improve operating safety.



CUMMINS B3.9-C ENGINE

The Cummins B3.9-C engine has been designed with 40% fewer parts than the competitors. That means there's less that can go wrong when you need it most. It also means fewer parts to inventory. Repairs are simplified because no special tools are needed for maintenance. The weight of the machine is reduced without sacrificing strength. The B3.9-C engine is capable of reaching emission standards without electronic engine controls. You get a proven power plant that meets ecological concerns, without paying a premium for technology you don't need.

Profitability

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



*Photo may include optional equipment.

Fuel Efficiency

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



Hi-mate (Remote Management System)

Hi-mate, Hyundai's proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access. Users can pinpoint machine location using digital mapping and set machine work boundaries, reducing the need for multiple service calls. Hi-mate saves time and money for the owner and dealer by promoting preventative maintenance and reducing machine downtime.



Easy Access

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



Long-Life Components

9S series excavators were designed with bushings designed for long-life lube intervals (250 hrs) & 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 B3.9-C		
Type	Water cooled, 4 cycle diesel, 4-cylinders in line, direct injection, turbocharged, charger air cooled, low emission		
Rated flywheel horsepower	SAE	J1995 (gross) J1349 (net)	113 HP (84 kW) at 2100 rpm 105 HP (78 kW) at 2100 rpm
	DIN	6271/1 (gross) 6271/1 (net)	115 PS (84 kW) at 2100 rpm 106 PS (78 kW) at 2100 rpm
Max. torque	45.6 kgf . m (330 lbf . ft) at 1500 rpm		
Bore X stroke	102 x 120 mm (4.02" x 4.72")		
Piston displacement	3,900 cc (238 in ³)		
Batteries	2 x 12 V x 100 AH		
Starting motor	24V-4.5 kW		
Alternator	24V-70 Amp		

HYDRAULIC SYSTEM

MAIN PUMP	Two variable displacement piston pumps		
Type	Two variable displacement piston pumps		
Rated flow	2 X 130 L/min (34.3 US gpm/28.6 UK gpm)		
Sub-pump for pilot circuit	Gear pump		

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS			
Travel	Axial piston motor with brake valve		
Swing	Axial piston motor with automatic brake		

RELIEF VALVE SETTING			
Implement circuits	350 kgf/cm ² (4,970 psi)		
Travel	380 kgf/cm ² (5,400 psi)		
Power boost (boom, arm, bucket)	380 kgf/cm ² (5,400 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	2-105 x 1,075 mm (4.1" x 42.3")	
	Arm	1-115 x 1,138 mm (4.5" x 46.8")	
	Bucket	1-100 x 840 mm (3.9" x 33.1")	
	Blade	2-100 x 236 mm (3.9" x 9.3")	
	Outrigger	2-110 x 446 mm (4.3" x 7.6")	

DRIVES & BRAKES

4-wheel hydrostatic drive. Constant mesh, helical gear transmission provides 2 forward and reverse travel speeds.

Max. drawbar pull	8,500 kgf (18,740 lbf)	
Travel speed	1st	8 km/h (5.0 mph)
	2nd	30 km/h (18.6 mph)
Gradeability	35°(70 %)	

Parking brake : Independent dual brake, front and rear axle full hydraulic power brake.

- Spring released and hydraulic applied wet type multiple disk brake.
- Transmission is locked at neutral position for parking, automatically.

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)
Engine throttle	Electric, Dial type

AXLE & WHEEL

Full floating front axle is supported by center pin for oscillation. It can be locked by oscillation lock cylinders. Rear axle is fixed on the lower chassis.

Tires	9.00-20-14PR, Dual(tube type)
(optional)	9.00-20, Dual(solid type)

SWING SYSTEM

Swing motor	Axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake(option)	Multi wet disc(pin lock type)
Swing speed	12.9 rpm

STEERING SYSTEM

Hydraulically actuated, orbitrol type steering system actuates on front wheels through the steering cylinders.

Min. turning radius	6,300 mm(20' 8")
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COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal	
Fuel tank	270.0	71.3	59.4	
Engine coolant	17.5	4.6	3.8	
Engine oil	15.3	4.0	3.4	
Swing device - gear oil	2.5	0.7	0.5	
Axle	Front	13.8	3.6	3.0
	Rear	16.0	4.2	3.5
Hydraulic system (including tank)	210.0	55.5	46.2	
Hydraulic tank	124.0	32.8	27.3	

UNDERCARRIAGE

Reinforced box-section frame is all-welded, low-stress.

Dozer blade and outriggers are available. A pin-on design.

Dozer blade	A very useful addition for leveling and back filling or clean-up work.
Outrigger	Indicated for max. operation stability when digging and lifting. Can be mounted on the front/or the rear.

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 4,600mm (15' 1") One-piece boom, 2,100mm (6' 11") arm, SAE heaped 0.58 m³ (0.76 yd³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

MAJOR COMPONENT WEIGHT	
Upperstructure	4,680kg (10,320 lb)
Mono boom(with arm cylinder)	1,030kg (2,270 lb)

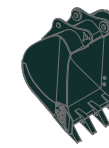
OPERATING WEIGHT	
Undercarriage	Mono boom
Rear dozer blade	13,700kg (30,200 lb)
Rear outrigger	14,100kg (31,090 lb)
Front outrigger and rear blade	14,700kg (32,410 lb)
Front blade and rear outrigger	14,700kg (32,410 lb)
Four outrigger	15,100kg (33,290 lb)

BUCKETS

All buckets are welded with high-strength steel.



0.23 (0.30)



0.40 (0.52)
0.46 (0.60)



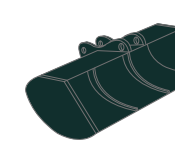
0.52 (0.68)
0.58 (0.76)



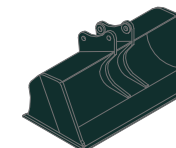
0.65 (0.85)



0.71 (0.93)



■ 0.45 (0.59)



◎ 0.55 (0.72)

SAE heaped m³ (yd³)

Capacity m ³ (yd ³)		Width mm (in)		Weight kg (lb)	Recommendation m (ft-in)			
SAE heaped	CECE heaped	Without sidecutters	With sidecutters		4.6 (15' 1") Boom			
					1.9 (6' 3") Arm	2.1 (6' 11") Arm	2.5 (8' 2") Arm	3.0 (9' 10") Arm
0.23 (0.30)	0.20(0.26)	520(20.5)	620(24.4)	335(740)	●	●	●	●
0.40 (0.52)	0.35(0.46)	750(29.5)	850(33.5)	410(900)	●	●	●	●
0.46 (0.60)	0.40(0.52)	840(33.1)	940(37.0)	435(960)	●	●	●	■
0.52 (0.68)	0.45(0.59)	915(36.0)	1,015(40.0)	460(1,010)	●	●	■	▲
0.58 (0.76)	0.50(0.65)	1,000(39.4)	1,100(43.3)	480(1,060)	●	■	■	▲
0.65 (0.85)	0.55(0.72)	1,105(43.5)	1,205(47.4)	500(1,100)	■	▲	▲	-
0.71 (0.93)	0.60(0.78)	1,190(46.9)	1,290(50.8)	540(1,190)	▲	▲	-	-
■ 0.45 (0.59)	0.40(0.52)	1,520(59.8)	1,620(63.8)	410(900)	●	●	■	-
◎ 0.55 (0.72)	0.45(0.59)	1,800(70.9)	1,900(74.8)	585(1,290)	■	▲	▲	-

■ Ditching bucket

◎ Slope finishing bucket

●: Applicable for materials with density of 2,000 kg /m³ (3,370 lb/ yd³) or less

■: Applicable for materials with density of 1,600 kg /m³ (2,700 lb/ yd³) or less

▲: Applicable for materials with density of 1,100 kg /m³ (1,850 lb/ yd³) or less

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 4.6m (15' 1") Boom and 1.9m (6' 3"), 2.1m (6' 11"), 2.5m (8' 2"), & 3.0m (9' 10") Arms are available.

DIGGING FORCE

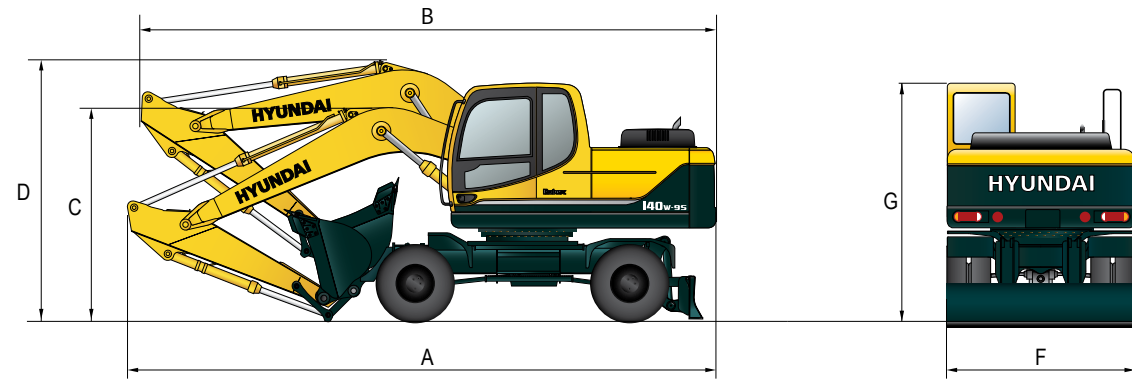
Boom	Length	mm (ft-in)	4,600 (15' 1")				Remarks
	Weight	kg (lb)	1,030 (2,270)				
Arm	Length	mm (ft-in)	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")	
	Weight	kg (lb)	560 (1,230)	580 (1,280)	610 (1,340)	670 (1,480)	
Bucket digging force	SAE	kN	87.3 [94.8]	87.3 [94.8]	87.3 [94.8]	87.3 [94.8]	[]: Power Boost
		kgf	8,900 [9,660]	8,900 [9,660]	8,900 [9,660]	8,900 [9,660]	
		lbf	19,620 [21,300]	19,620 [21,300]	19,620 [21,300]	19,620 [21,300]	
	ISO	kN	102 [110.8]	102 [110.8]	102 [110.8]	102 [110.8]	
		kgf	10,400 [11,290]	10,400 [11,290]	10,400 [11,290]	10,400 [11,290]	
		lbf	22,930 [24,890]	22,930 [24,890]	22,930 [24,890]	22,930 [24,890]	
Arm crowd force	SAE	kN	76.5 [83.1]	73.6 [79.9]	62.8 [68.2]	55.9 [60.7]	
		kgf	7,800 [8,470]	7,500 [8,140]	6,400 [6,950]	5,700 [6,190]	
		lbf	17,200 [18,670]	16,530 [17,950]	14,110 [15,320]	12,570 [13,640]	
	ISO	kN	80.4 [87.3]	77.5 [84.1]	65.7 [71.4]	57.9 [62.8]	
		kgf	8,200 [8,900]	7,900 [8,580]	6,700 [7,270]	5,900 [6,410]	
		lbf	18,080 [19,630]	17,420 [18,910]	14,770 [16,040]	13,010 [14,120]	

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

Arm weight includes bucket cylinder, linkage, and pin

Dimensions & Working Range

R140W-9S DIMENSIONS

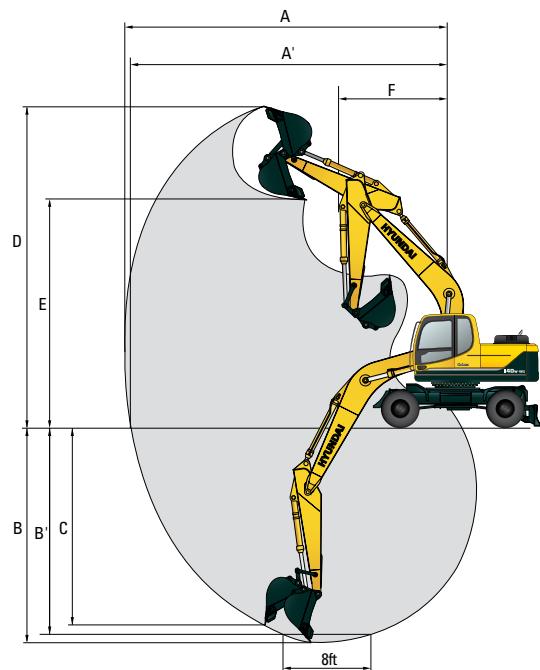


Unit : mm (ft - in)

	4,600(15' 1")			
Mono Boom				
Arm	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")
A Overall length of shipping position	7,760 (25' 6")	7,820 (25' 8")	7,770 (25' 6")	7,830 (25' 8")
B Overall length of traveling position	7,750 (25' 5")	7,760 (25' 6")	7,690 (25' 3")	7,710 (25' 4")
C Height of attachment(shipping position)	2,760 (9' 1")	2,860 (9' 5")	2,810 (9' 3")	3,100 (10' 2")
D Height of attachment(traveling position)	3,500 (11' 6")	3,500 (11' 6")	3,620 (11' 11")	3,600 (11' 10")
F Overall width	2,500 (8' 2")	2,500 (8' 2")	2,500 (8' 2")	2,500 (8' 2")
G Height of cabin	3,140 (10' 4")	3,140 (10' 4")	3,140 (10' 4")	3,140 (10' 4")

R140W-9S WORKING RANGE

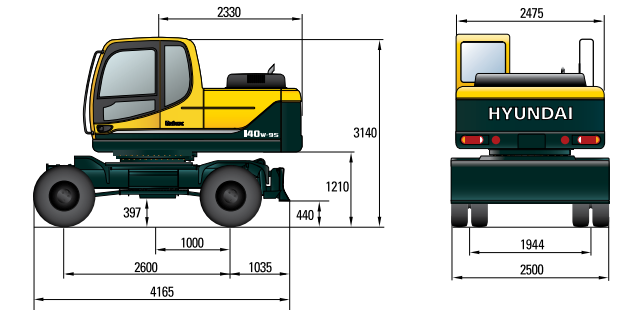
Unit : mm (ft - in)



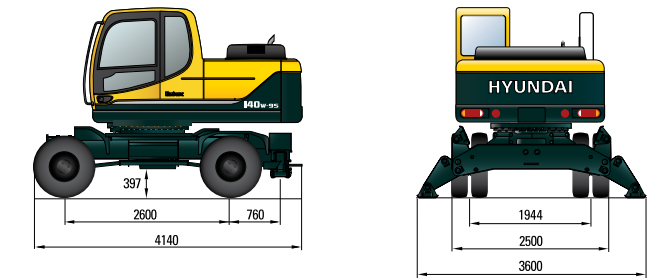
	4,600 (15' 1")			
Boom length				
Arm length	1,900 (6' 3")	2,100 (6' 11")	2,500 (8' 2")	3,000 (9' 10")
A Max. digging reach	7,750 (25' 5")	7,920 (26' 0")	8,320 (27' 4")	8,780 (28' 10")
A' Max. digging reach on ground	7,530 (24' 8")	7,700 (25' 3")	8,120 (26' 8")	8,590 (28' 2")
B Max. digging depth	4,650 (15' 3")	4,850 (15' 11")	5,250 (17' 3")	5,750 (18' 10")
B' Max. digging depth (8' level)	4,390 (14' 5")	4,600 (15' 1")	5,040 (16' 6")	5,570 (18' 3")
C Max. vertical wall digging depth	4,350 (14' 3")	4,460 (14' 8")	5,030 (16' 6")	5,550 (18' 3")
D Max. digging height	8,400 (27' 7")	8,470 (27' 9")	8,790 (28' 10")	9,070 (29' 9")
E Max. dumping height	5,960 (19' 7")	6,040 (19' 10")	6,350 (20' 10")	6,620 (21' 9")
F Min. swing radius	2,620 (8' 7")	2,670 (8' 10")	2,650 (8' 8")	2,670 (8' 9")

Undercarriage

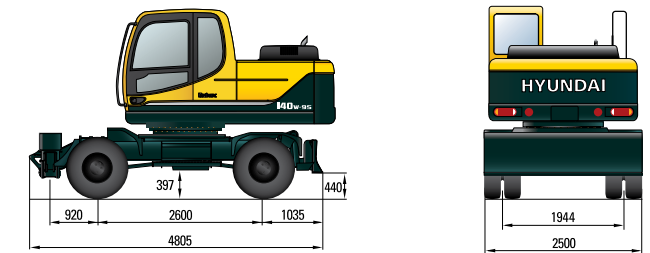
R140W-9S WITH REAR DOZER



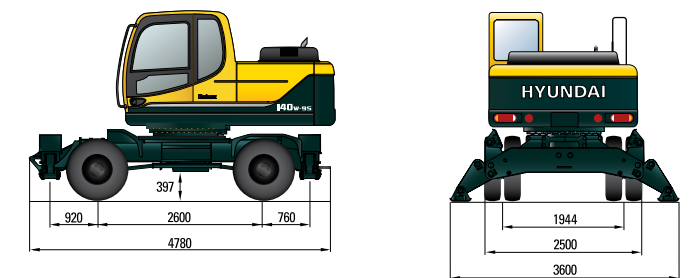
R140W-9S WITH REAR OUTRIGGER



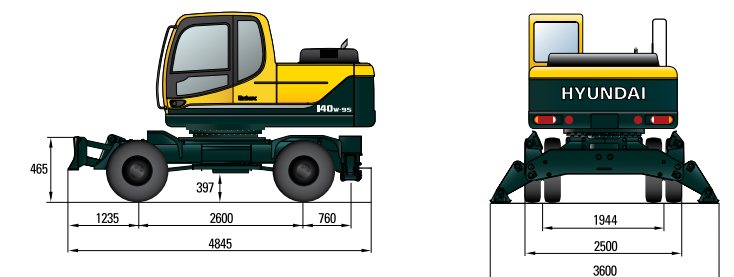
R140W-9S WITH REAR DOZER AND FRONT OUTRIGGER



R140W-9S WITH REAR AND FRONT OUTRIGGER



R140W-9S WITH REAR OUTRIGGER AND FRONT DOZER



Lifting Capacity

R140W-9S MONO BOOM

Rating over-front Rating over-side or 360 degree

Boom : 4.6 m (15' 1") / Arm : 1.9 m (6' 3") / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / With rear dozer blade down

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*3350	*3350			*3200	2080	6.22
(20 ft)	lb					*7390	*7390			*7050	4590	(20.4)
4.5 m	kg					*3740	3550	*2860	2120	*3310	1610	7.05
(15 ft)	lb					*8250	7830	*6310	4670	*7300	3550	(23.1)
3.0 m	kg			*7070	6400	*4710	3330	*3900	2050	3370	1420	7.42
(10 ft)	lb			*15590	14110	*10380	7340	*8600	4520	7430	3130	(24.3)
1.5 m	kg			*7620	5740	*5750	3090	*4340	1960	3320	1380	7.42
(5 ft)	lb			*16800	12650	*12680	6810	*9570	4320	7320	3040	(24.3)
Ground	kg			*8960	5590	*6340	2940	*4600	1890	3590	1480	7.06
Line	lb			*19750	12320	*13980	6480	*10140	4170	7910	3260	(23.2)
-1.5 m	kg	*7690	*7690	*9450	5620	*6250	2920			*3860	1830	6.24
(-5 ft)	lb	*16950	*16950	*20830	12390	*13780	6440			*8510	4030	(20.5)
-3.0 m	kg			*7750	5800	*5020	3030					
(-10 ft)	lb			*17090	12790	*11070	6680					

Boom : 4.6 m (15' 1") / Arm : 2.1 m (6' 11") / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / With rear dozer blade down

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*3130	*3130			*3050	1950	6.43
(20 ft)	lb					*6900	*6900			*6720	4300	(21.1)
4.5 m	kg					*3540	*3540	*3210	2120	*3160	1520	7.23
(15 ft)	lb					*7800	*7800	*7080	4670	*6970	3350	(23.7)
3.0 m	kg			*6620	6450	*4510	3310	*3770	2040	3230	1340	7.59
(10 ft)	lb			*14590	14220	*9940	7300	*8310	4500	7120	2950	(24.9)
1.5 m	kg			*8650	5730	*5580	3060	*4230	1930	3180	1300	7.59
(5 ft)	lb			*19070	12630	*12300	6750	*9330	4250	7010	2870	(24.9)
Ground	kg			*9090	5510	*6240	2900	*4540	1860	3420	1390	7.24
Line	lb			*20040	12150	*13760	6390	*10010	4100	7540	3060	(23.8)
-1.5 m	kg	*7380	*7380	*9530	5530	*6240	2860			*3760	1700	6.45
(-5 ft)	lb	*16270	*16270	*21010	12190	*13760	6310			*8290	3750	(21.2)
-3.0 m	kg	*11710	*11710	*7990	5690	*5240	2950					
(-10 ft)	lb	*25820	*25820	*17610	12540	*11550	6500					

Boom : 4.6 m (15' 1") / Arm : 2.5 m (8' 2") / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / With rear dozer blade down

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
6.0 m	kg									*2820	1700	6.92
(20 ft)	lb									*6220	3750	(22.7)
4.5 m	kg					*3110	*3110	*2980	2150	*2880	1360	7.66
(15 ft)	lb					*6860	*6860	*6570	4740	*6350	3000	(25.1)
3.0 m	kg			*5700	*5700	*4110	3360	*3500	2050	*2930	1200	8.00
(10 ft)	lb			*12570	*12570	*9060	7410	*7720	4520	*6460	2650	(26.2)
1.5 m	kg			*8610	5850	*5270	3080	*4030	1930	2900	1160	8.00
(5 ft)	lb			*18980	12900	*11620	6790	*8880	4250	6390	2560	(26.2)
Ground	kg	*3820	*3820	*9000	5500	*6070	2890	*4430	1830	3090	1240	7.67
Line	lb	*8420	*8420	*19840	12130	*13380	6370	*9770	4030	6810	2730	(25.2)
-1.5 m	kg	*6470	*6470	*9740	5460	*6260	2820	*4470	1800	*3510	1480	6.94
(-5 ft)	lb	*14260	*14260	*21470	12040	*13800	6220	*9850	3970	*7740	3260	(22.8)
-3.0 m	kg	*9750	*9750	*8560	5580	*5620	2870			*3480	2150	5.64
(-10 ft)	lb	*21500	*21500	*18870	12300	*12390	6330			*7670	4740	(18.5)

1. Lifting capacity is based on SAE J1097, ISO 10567.

2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook located on the back of the bucket.

4. (*) indicates the load limited by hydraulic capacity.

Lifting Capacity

R140W-9S MONO BOOM

Rating over-front Rating over-side or 360 degree

Boom : 4.6 m (15' 1") / Arm : 3.0 m (9' 10") / Bucket : 0.58 m³ (0.76 yd³) SAE heaped / With rear dozer blade down

Load point height m (ft)		Load radius										At max. reach										
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach								
														m (ft)								
6.0 m	kg											*2100	*2100			*2570	1480	7.46				
(20 ft)	lb											*4630	*4630			*5670	3260	(24.5)				
4.5 m	kg											*2710	2200			*2590	1210	8.14				
(15 ft)	lb											*5970	4850			*5710	2670	(26.7)				
3.0 m	kg													*3580	3450	*3170	2090	*1780	1350	*2640	1080	8.46
(10 ft)	lb													*7890	7610	*6990	4610	*3920	2980	*5820	2380	(27.8)
1.5 m	kg							*7700	6080	*4840	3150	*3770	1960	*2190	1290	2640	1040	8.46				
(5 ft)	lb							*16980	13400	*10670	6940	*8310	4320	*4830	2840	5820	2290	(27.8)				
Ground	kg	*3780	*3780	*9530	5580	*5830	2920	*4280	1840	*1820	1250	2780	1100	8.15								
Line	lb	*8330	*8330	*21010	12300	*12850	6440	*9440	4060	*4010	2760	6130	2430	(26.7)								
-1.5 m	kg	*5830	*5830	*9890	5450	*6250	2810	*4490	1780			3210	1280	7.48								
(-5 ft)	lb	*12850	*12850	*21800	12020	*13780	6190	*9900	3920			7080	2820	(24.5)								
-3.0 m	kg	*8470	*8470	*9150	5500	*5950	2820	*3320	1810			*3390	1750	6.31								
(-10 ft)	lb	*18670	*18670	*20170	12130	*13120	6220	*7320	3990			*7470	3860	(20.7)								
-4.5 m	kg					*6890	5740															
(-15 ft)	lb					*15190	12650															

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.