

STANDARD & OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

R290LC-9MH / 380LC-9MH / 480LC-9MH

ISO Standard cabin
All-weather steel cab with 360° visibility
Safety glass windows
Rise-up type windshield wiper
Sliding side window(LH)
Lockable door
Hot & cool box
Storage compartment & Ashtray
Transparent cabin roof-cover
Radio / USB Player
12 volt power outlet (24V DC to 12V DC converter)
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 (FATC)
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
Three 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 160 AH)
Battery master switch
Removable clean-out dust net for oil cooler
Automatic swing brake
Removable reservoir tank
Fuel pre-filter with fuel warmer
Boom holding system
Arm holding system
Track shoes (800mm, 32")
Track rail guard
Accumulator for lowering work equipment
Electric transducer
Lower frame under cover (Normal)

OPTIONAL EQUIPMENT

R290LC-9MH / 380LC-9MH / 480LC-9MH

Fuel filler pump (50 L/min)
Beacon lamp
Elevating cabin
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 roof-steel cover
Cabin front guard-wire net
Cabin lights
Cabin front window rain guard
Lower frame under cover (Additional)
Tool kit
Operator suit
Rearview camera
Seat
Adjustable air suspension seat
Adjustable air suspension seat with heater
Mechanical suspension seat
Hi-mate (Remote Management System)
Air compressor
Track shoes
Triple grousers shoe (900 mm, 36")
Full track rail guard

R380LC-9MH

3 piece front
6.6 m (21’ 8”) boom, 4.3 m (14’ 1”) mid arm, 3.3 m (10’ 10”) end arm

R480LC-9MH

3 piece front
7.5 m, (24’ 7”) boom, 5.0 (16’ 5”) mid arm, 4.0 m, (13’ 1”) end arm

PLEASE CONTACT

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 **HYUNDAI**
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We build a better future

Robex **210w-9**
290LC-9
380LC-9
480LC-9
Material Handler



*Photo may include optional equipment.

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

Pride at Work

Purpose-built NEW excavators for the waste and recycling environment

- The hydraulic elevating cab provides the comfort of operating from a raised position ensuring an improved vision and safety.
- Larger working range and exceptional stability offer high productivity in a challenging environment.

Robex **210w-9**
290LC-9
380LC-9
480LC-9
Material Handler



Specifications _ Robex 210W-9 MH

ENGINE

MODEL			Cummins QSB 6.7
Type			Water-cooled, 4-cycle diesel, 6-cylinder in-line, Direct injection, Turbocharged, Charge air cooled, Low emission
Rated flywheel horsepower	SAE	J1995 (gross)	176 HP (131kW) at 1,900 rpm
		J1349 (net)	165 HP (123kW) at 1,900 rpm
	DIN	6271/1 (gross)	178 PS (131kW) at 1,900 rpm
		6271/1 (net)	167 PS (123kW) at 1,900 rpm
Max. torque			81.4 kgf-m (589 lbf-ft) at 1,400 rpm
Bore X stroke			107 x 124 mm (4.2" x 4.9")
Piston displacement			6,700 cc (409 in³)
Batteries			2 x 12 V x 100 AH
Starting motor			24 V-4.5 kW
Alternator			24 V-70 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps
Rated flow	2 X 228 L /min (60.2 US gpm / 50.2 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS	
Travel	Two-speed axial pistons motor with brake valve
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm² (4,980 psi)
Travel	380 kgf/cm² (5,400 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,400 psi)
Swing circuit	265 kgf/cm² (3,770 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom : 2-120 x 1,290 mm (4.7" x 50.8")
	Arm : 1-140 x 1,478 mm (5.5" x 58.2")
	Cabin elevating : 2-80 X 660 mm (3.1" X 26.0")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, bent axis design
Max. drawbar pull	11,900 kgf (26,200 lbf)
Max. travel speed (high/low)	35 km/hr (21.7 mph) / 9.3 km/hr (5.8 mph)
Gradeability	31.5º (61 %)
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 grapple (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	10.00-20-14PR, Dual(tube type)
(optional)	10.00-20, Dual(solid type)

SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	2-Stage planetary
Swing bearing lubrication	Grease-bathed
Swing brake(option)	Multi wet disc (pin lock type)
Swing speed	10.3 rpm

STEERING SYSTEM

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

Min. turning radius	7,200 mm (23' 7")
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COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal
Fuel tank	310	81.9	68.2
Engine coolant	35	9.2	7.7
Engine oil	24	6.3	5.28
Swing device - gear oil	5	1.3	1.1
Axle	Front	14.6	3.9
	Rear	18.5	4.9
Hydraulic system (including tank)	340	89.8	74.8
Hydraulic tank	165	43.6	36.3
Transmission	2.5	0.66	0.55

UNDERCARRIAGE

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

Outriggers are available. A pin-on design.

4-Outrigger	Indicated for max. operation stability when lifting. Can be mounted on the front and rear.
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OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 6,500mm (21' 4") boom, 4,500mm (14' 9") arm, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

4-Outrigger (front and rear outrigger)	25,700 kg (56,660 lb)
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Specifications _ Robex 290LC-9 MH

ENGINE

MODEL			Cummins QSB6.7
Type			Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charge air cooled, Low emission
Rated flywheel horse power	SAE	J1995 (gross)	227 HP (169 kW)/ 1,900 rpm
		J1349 (net)	197 HP (147 kW)/ 1,900 rpm
	DIN	6271/1 (gross)	230 PS (169 kW)/ 1,900 rpm
		6271/1 (net)	200 PS (147 kW)/ 1,900 rpm
Max. torque			96.8 kgf-m (700 lbf-ft)/ 1,500 rpm
Bore X stroke			107 x 124 mm (4.2" x 4.9")
Piston displacement			6,700 cc (409 in³)
Batteries			2 x 12 V x 160 AH
Starting motor			24 V, 4.5 kW
Alternator			24 V, 70 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem-axis piston pumps
Max. flow	2 X 252 L /min (66.6 US gpm / 55.4 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS	
Travel	Two-speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm² (4,978 psi)
Travel	350 kgf/cm² (4,978 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,404 psi)
Swing circuit	300 kgf/cm² (4,267 psi)
Pilot circuit	40 kgf/cm² (568 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: 2-140 X1,465 mm (5.5" X 57.7")
	Arm: 1-150 X 1,765 mm (5.9" X 69.5")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	27,300 kgf (60,200 lbf)
Max. travel speed (high / low)	5 km/hr (3.1 mph) / 3.5 km/hr (2.2 mph)
Gradeability	35º (70 %)
Parking brake	Multi wet disc

CONTROL

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

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

SWING SYSTEM

Swing motor	Fixed displacement axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	10.5 rpm

COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal
Fuel tank	500	132.1	110.0
Engine coolant	35	9.2	7.7
Engine oil	24	6.3	5.3
Swing device - gear oil	6	1.6	1.3
Final drive (each) - gear oil	8	2.1	1.8
Hydraulic system (including tank)	330	87.2	72.6
Hydraulic tank	190	50.2	41.8

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	48
No. of carrier rollers on each side	2
No. of track rollers on each side	9
No. of rail guards on each side	2

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7,800mm (25' 7") boom, 5,400mm (17' 9") arm, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

Shoes		Operating weight		Ground pressure
Type		Width mm (in)	kg (lb)	kgf/cm² (psi)
2 pcs	Cabin riser	800mm (32")	32,710 (72,110)	0.47 (6.68)
		900mm (36")	33,090 (72,950)	0.42 (5.97)
	Cabin elevating	800mm (32")	33,660 (74,210)	0.48 (6.83)
		900mm (36")	34,040 (75,050)	0.44 (6.26)

Specifications _ Robex 380LC-9 MH

ENGINE

MODEL			Cummins QSL
Type			Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charger air cooled, Low emission
Rated flywheel horse power	SAE	J1995 (gross)	296 HP (221 kW)/ 1,850 rpm
		J1349 (net)	271 HP (202 kW)/ 1,850 rpm
	DIN	6271/1 (gross)	300 PS (221 kW)/ 1,850 rpm
		6271/1 (net)	275 PS (202 kW)/ 1,850 rpm
Max. torque			148.0 kgf-m (1,070 lbf-ft)/ 1,400 rpm
Bore X stroke			114 x 145 mm (4.5" x 5.7")
Piston displacement			8,900 cc (540 in³)
Batteries			2 X 12 V X 160 AH
Starting motor			24 V- 7.5 kW
Alternator			24 V- 70 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement piston pump
Rated flow	2 X 288 L/min (76.1 US gpm / 63.4 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system.	

HYDRAULIC MOTORS	
Travel	Two speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	330 kgf/cm² (4,690 psi)
Travel	360 kgf/cm² (5,120 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	290 kgf/cm² (4,125 psi)
Pilot circuit	40 kgf/cm² (569 psi)
Service valve	Installed

HYDRAULIC CYLINDERS		
No. of cylinder (bore X stroke)	2pcs	Boom: 2-160 X 1,500 mm (6.3"X 59.1")
		Arm: 1-170 X 1,760 mm (6.7" X 69.3")
	3pcs	Boom: 2-160 X 1,500 mm (6.3"X 59.1")
		Mid-arm: 1-150 X 1,295 mm (5.9" X 51.0") End-arm: 1-170 X 1,760 mm (6.7" X 69.3")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	32,000 kgf (70,550 lbf)
Max. travel speed (high/low)	4.8 km/hr (3.0 mph) / 3.0 km/hr (1.9 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

CONTROL

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

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

SWING SYSTEM

Swing motor	Fixed displacement axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.3 rpm

COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	550	145.3	121.0
Engine coolant	45.0	11.9	9.9
Engine oil	30	7.9	6.6
Swing device-gear oil	8.0	2.1	1.8
Final drive(each)-gear oil	5.5	1.5	1.2
Hydraulic system(including tank)	410	108.3	90.2
Hydraulic tank	210	55.5	46.2

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	9
No. of rail guard on each side	2

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 8,600mm (28' 3") boom, 6,050mm (19' 10") arm, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

Shoes		Operating weight		Ground pressure	
Type		Width mm (in)		kg (lb)	
2pcs	Cabin riser	800mm (32")		43,236 (95,320)	
		900mm (36")		43,684 (96,310)	
	Cabin elevating	800mm (32")		43.641 (96,210)	
		900mm (36")		44,089 (97,200)	
3pcs	Cabin riser	800mm (32")		42,975 (94,740)	
		900mm (36")		43,423 (95,730)	
	Cabin elevating	800mm (32")		43.380 (95,640)	
		900mm (36")		43,828 (96,620)	

Specifications _ Robex 480LC-9 MH

ENGINE

MODEL			CUMMINS QSM11
Type			Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charge air cooled, Low emission
Rated flywheel horsepower	SAE	J1995 (gross)	357HP (266kW)/ 1,900rpm
		J1349 (net)	342HP (255kW)/ 1,900rpm
	DIN	6271/1 (gross)	362HP (266kW)/ 1,900rpm
		6271/1 (net)	347HP (255kW)/ 1,900rpm
Max. torque			170.8kgf-m (1,235lbf-ft)/1,400rpm
Bore X stroke			125 X 147 mm (4.92" X 5.79")
Piston displacement			10,800 cc (659 in³)
Batteries			2 X 12 V X 200 AH
Starting motor			24 V, 7.2 kW
Alternator			24 V, 70 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem-axis piston pumps
Max. flow	2 X 370 L/min (97.7 US gpm/81.4 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system	

HYDRAULIC MOTORS	
Travel	Two-speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	330 kgf/cm² (4,690 psi)
Travel	330 kgf/cm² (4,690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	285 kgf/cm² (4,050 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS		
No. of cylinder (bore X stroke)	2pcs	Boom: 2-170 X1,570 mm (6.7" X 61.8")
		Arm: 1-190 X 1,820 mm (7.5" X 71.7")
	3pcs	Boom: 2-170 X1,570 mm (6.7" X 61.8")
		Mid-arm: 1-160 X 1,370 mm (6.3" X 53.9")
		End-arm: 1-190 X 1,820 mm (7.5" X 71.7")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	38,500 kgf (84,800 lbf)
Max. travel speed (high / low)	5.0 km/hr (3.1 mph) / 3.2 km/hr (2.0 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

CONTROL

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

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

SWING SYSTEM

Swing motor	Axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.0 rpm

COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal
Fuel tank	621	164	136.6
Engine coolant	50.0	13.2	11.0
Engine oil	37.9	10.0	8.3
Swing device - gear oil	5.0	1.3	1.1
Final drive (each) - gear oil	5.0	1.3	1.1
Hydraulic system (including tank)	480	100.4	83.6
Hydraulic tank	262	69.2	57.6

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	53
No. of carrier rollers on each side	2
No. of track rollers on each side	9
No. of rail guards on each side	2

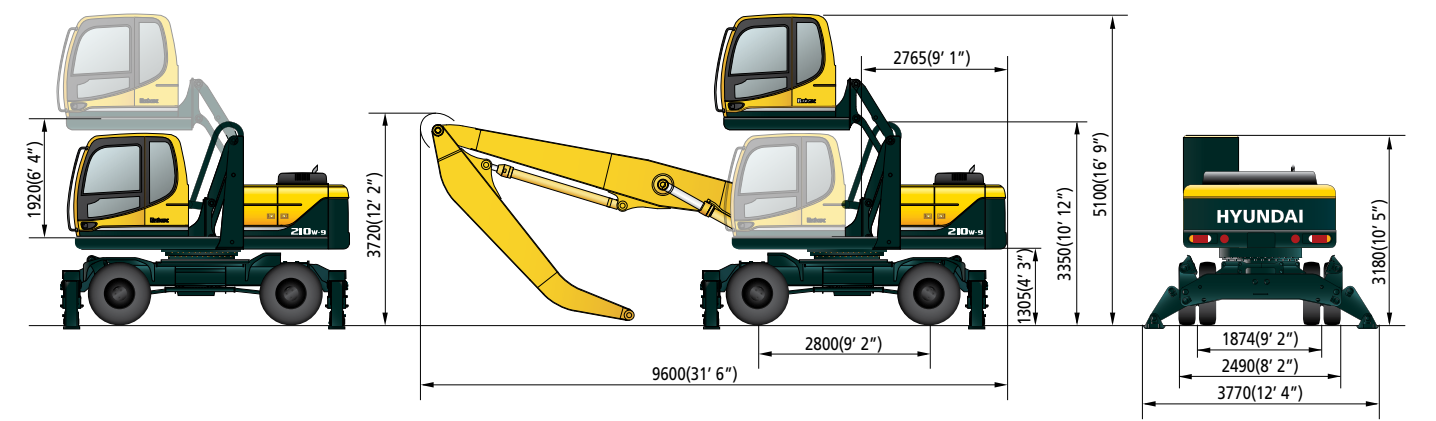
OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 10,000mm (32' 10") boom, 7,100mm (23' 4") arm, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

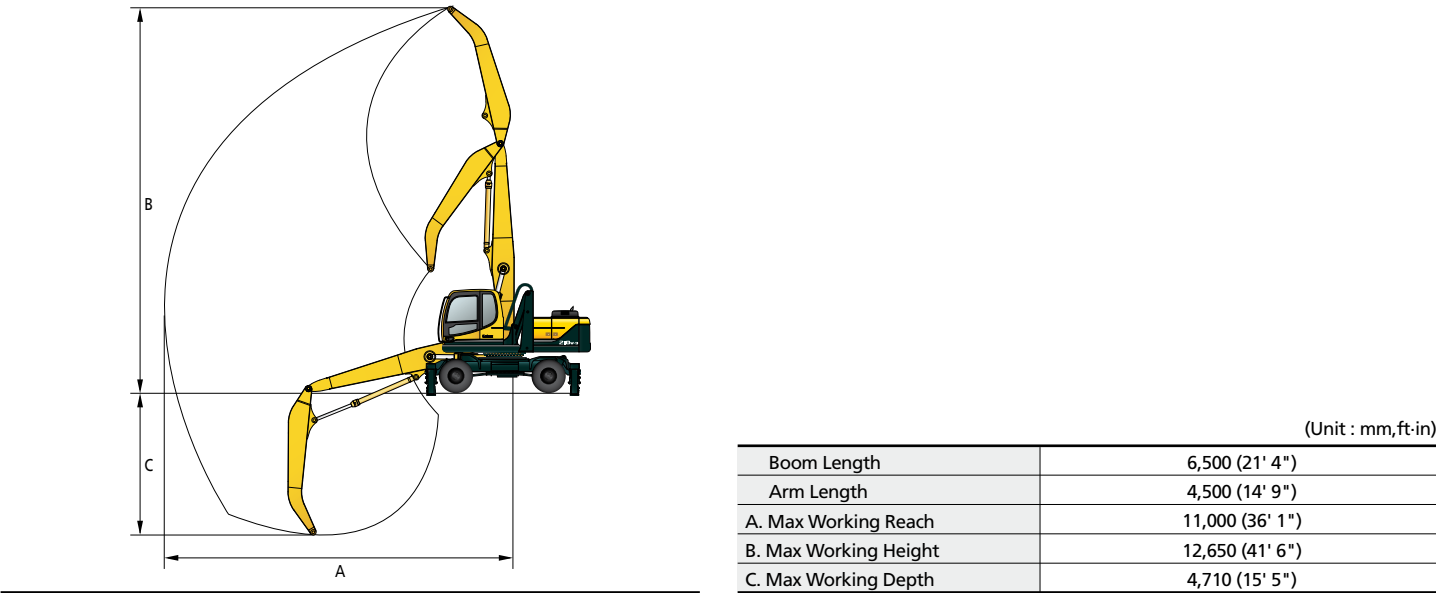
Shoes		Operating weight		Ground pressure	
Type		Width mm (in)		kg (lb)	
2pcs	Cabin riser	800mm (32")		55,041 (121,340)	
		900mm (36")		55,549 (122,460)	
	Cabin elevating	800mm (32")		55,446 (122,240)	
		900mm (36")		55,954 (123,360)	
3pcs	Cabin riser	800mm (32")		55,115 (121,510)	
		900mm (36")		55,623 (122,630)	
	Cabin elevating	800mm (32")		55,520 (122,480)	
		900mm (36")		56,028 (123,520)	

Dimensions & Working Range _ R210W-9 MH

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



Lifting Capacity

R210W-9 MH Rating over-front Rating over-side or 360 degree

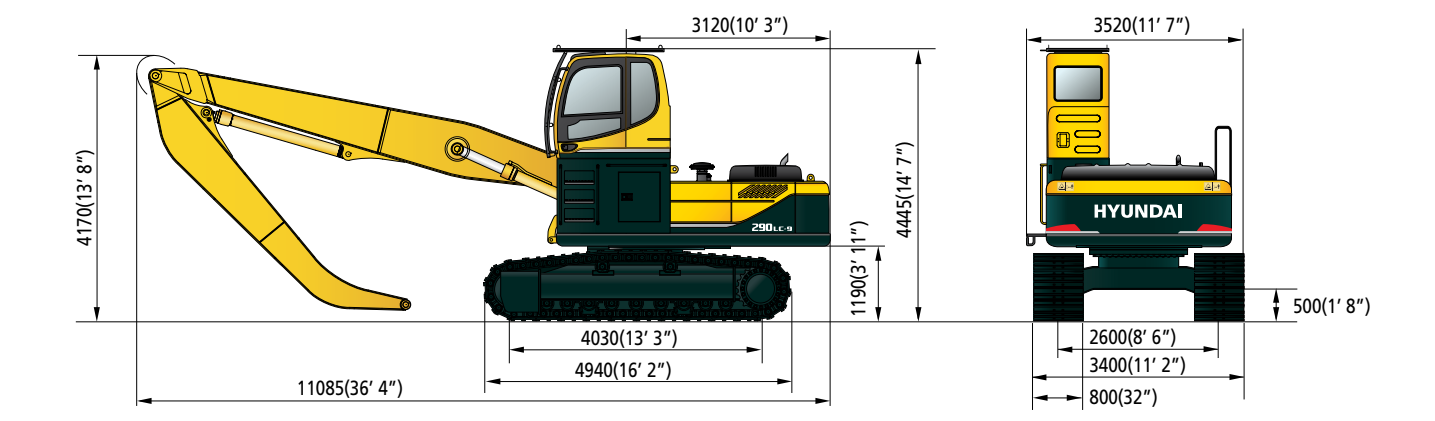
Boom : 6.5 m (21' 4") / Arm : 4.5 m (14' 9") / 4-Outrigger Down / 2 m (6' 7") Cabin Elevating

Load point height m (ft)		Load radius												At max. reach		
		3 m (10 ft)		4.5 m (15 ft)		6 m (20 ft)		7.5 m (25 ft)		9 m (30 ft)		10.5 m (35 ft)		Capacity	Reach	
																m (ft)
12 m	kg													*7345	*7345	4.03
(40 ft)	lb													*16194	*16194	(13.23)
9 m	kg					*4839	*4839	*4499	*4499					*4394	*4394	8.29
(30 ft)	lb					*10669	*10669	*9919	*9919					*9686	*9686	(27.19)
6 m	kg					*5121	*5121	*4541	*4541	*4102	3935			*3827	3231	10.12
(20 ft)	lb					*11289	*11289	*10011	*10011	*9043	8674			*8437	7124	(33.19)
3 m	kg			*8225	*8225	*6224	*6224	*5080	4930	*4312	3762	*3689	2975	*3528	2830	10.84
(10 ft)	lb			*18132	*18132	*13722	*13722	*11200	10870	*9507	8293	*8132	6560	*7778	6239	(35.57)
1.5 m	kg			*9193	*9193	*6705	6520	*5306	4749	*4380	3662	*3617	2931	*3390	2785	10.88
(5 ft)	lb			*20268	*20268	*14781	14375	*11698	10471	*9656	8073	*7975	6461	*7473	6140	(35.69)
Ground	kg	*3150	*3150	*9362	*9362	*6855	6280	*5351	4608	*4314	3583	*3387	2902	*3226	2830	10.7
Line	lb	*6945	*6945	*20641	*20641	*15113	13844	*11796	10159	*9511	7900	*7467	6397	*7111	6240	(35.11)
-1.5 m	kg	*4753	*4753	*8737	*8737	*6563	6157	*5110	4528	*4014	3544			*3001	2979	10.3
(-5 ft)	lb	*10480	*10480	*19263	*19263	*14468	13574	*11266	9983	*8848	7813			*6617	6568	(33.8)
-3 m	kg	*6437	*6437	*7453	*7453	*5773	*5773	*4477	*4477	*3310	*3310			*2660	*2660	9.65
(-10 ft)	lb	*14190	*14190	*16430	*16430	*12726	*12726	*9871	*9871	*7297	*7297			*5863	*5863	(31.67)

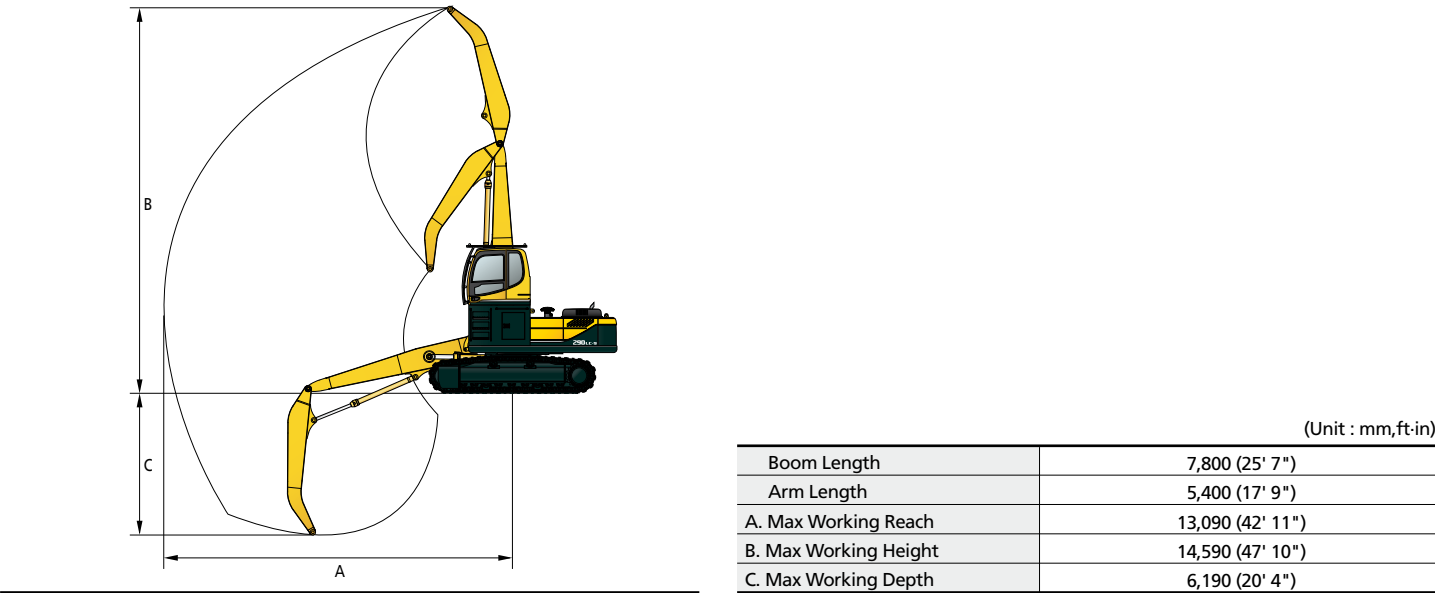
1. Lifting capacity is based on SAE J1097, ISO 10567. 3. The load point is a hook located on the back of the bucket.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity. 4. (*) indicates the load limited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

Dimensions & Working Range _ R290LC-9 MH (Cabin Riser / 2Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



Lifting Capacity

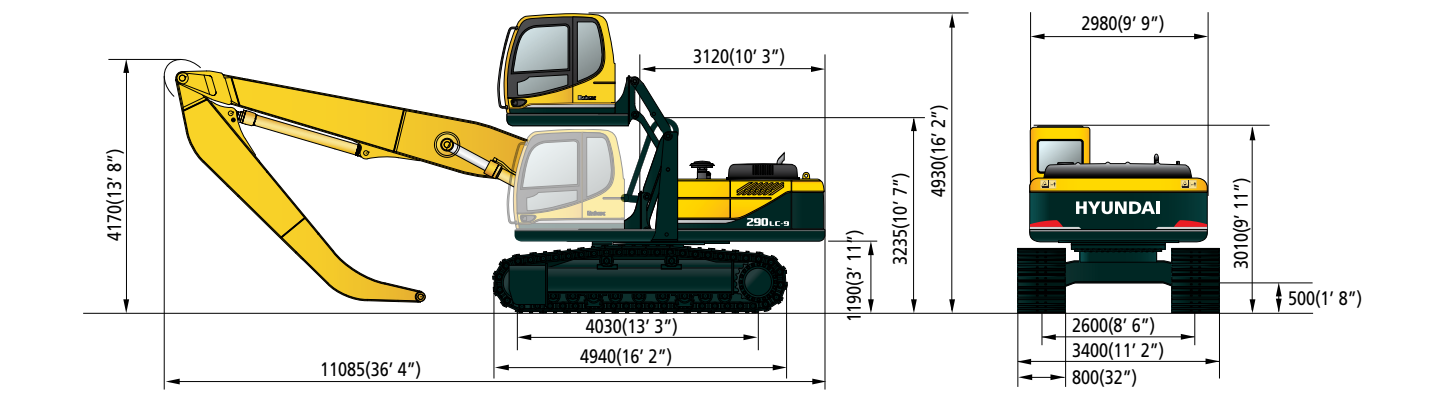
R290LC-9 MH 2PIECE FRONT Rating over-front Rating over-side or 360 degree

Boom : 7.8 m (25' 7") / Arm : 5.4 m (17' 9") / Shoe : 800mm (32") triple grouser

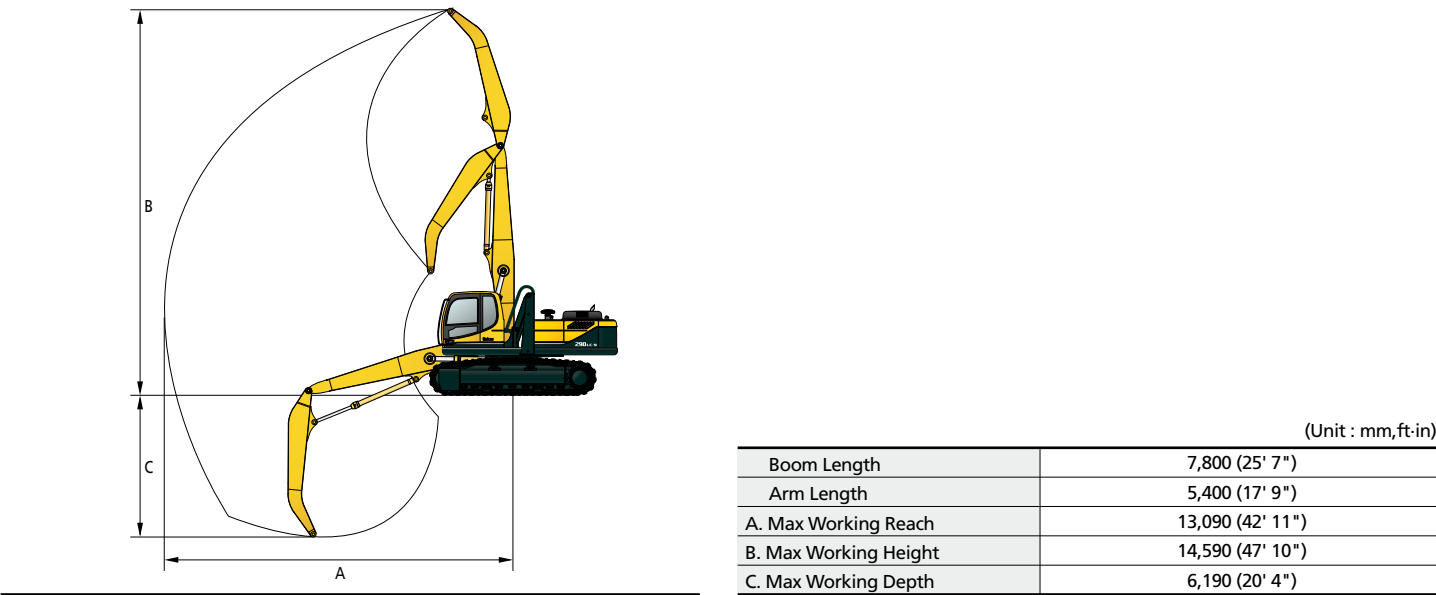
Load point height m (ft)		Load radius												At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		Capacity	Reach	
																m (ft)
12.0 m	kg					*7367	*7367	*6892	*6892					*6202	*6202	8.34
(40 ft)	lb					*16241	*16241	*15194	*15194					*13673	*13673	(27.4)
10.5 m	kg					*6502	*6502	*6181	*6181	5955				*5584	5049	9.89
(35 ft)	lb					*14335	*14335	*13627	*13627	13128				*12311	11132	(32.4)
9.0 m	kg					*6458	*6458	*6057	*6057	5994	*5755	4638		*5250	4250	11.02
(30 ft)	lb					*15360	*15360	*14238	*14238	*13354	13215	*12688	10225	*11575	9369	(36.1)
7.5 m	kg					*7342	*7342	*6673	*6673	*6147	5936	*5727	4637	*5073	3763	11.85
(25 ft)	lb					*16186	*16186	*14712	*14712	*13551	13088	*12626	10224	*11183	8297	(38.9)
6.0 m	kg			*9504	*9504	*8087	*8087	*7106	*7106	*6384	5810	*5826	4573	*5364	3677	12.44
(20 ft)	lb			*20953	*20953	*17829	*17829	*15665	*15665	*14075	12808	*12845	10081	*11825	8106	(40.8)
4.5 m	kg			*11525	*11525	*9136	*9136	*7691	7367	*6712	5633	*5990	4471	5371	3632	12.83
(15 ft)	lb			*25408	*25408	*20141	*20141	*16956	16241	*14798	12419	*13207	9856	11841	8006	(42.1)
3.0 m	kg			*13830	*13830	*10275	9631	*8315	7031	*7059	5433	*6163	4351	5303	3568	13.03
(10 ft)	lb			*30490	*30490	*22653	21232	*18330	15501	*15562	11978	*13587	9591	11691	7865	(42.7)
1.5 m	kg			*4895	*4895	*11165	9076	*8820	6712	*7334	5239	*6282	4232	5234	3502	13.05
(5 ft)	lb			*10792	*10792	*24615	20009	*19445	14798	*16169	11551	*13850	9331	11539	7722	(42.8)
Ground	kg			*3841	*3841	*11528	8685	*9062	6462	*7448	5080	6216	4134	5179	3451	12.9
Line	lb			*8468	*8468	*25416	19147	*19978	14247	*16420	11199	13703	9114	11418	7608	(42.3)
-1.5 m	kg	*1928	*1928	*4522	*4522	*11286	8477	*8945	6305	*7319	4973	*6083	4070	*4957	3427	12.57
(-5 ft)	lb	*4252	*4252	*9969	*9969	*24881	18688	*19720	13901	*16136	10964	*13412	8972	*10929	7556	(41.2)
-3.0 m	kg	*3381	*3381	*5693	*5693	*10470	8416	*8414	6241	*6870	4928	*5593	4052	*4176	3454	12.04
(-10 ft)	lb	*7455	*7455	*12551	*12551	*23083	18554	*18549	13760	*15145	10864	*12330	8933	*9207	7616	(39.5)
-4.5 m	kg			*7098	*7098	*9092	8468	*7408	6263	*5996	4950	*4629	4096			11.29
(-15 ft)	lb			*15648	*15648	*20044	18668	*16331	13808	*13218	10913	*10206	9029			(37)
-6.0 m	kg					*7077	*7077	*5801	*5801	*4484	*4484					9.11
(-20 ft)	lb					*15602	*15602	*12790	*12790	*9885	*9885					(29.9)

Dimensions & Working Range _ R290LC-9 MH (Cabin Elevating / 2Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



Lifting Capacity

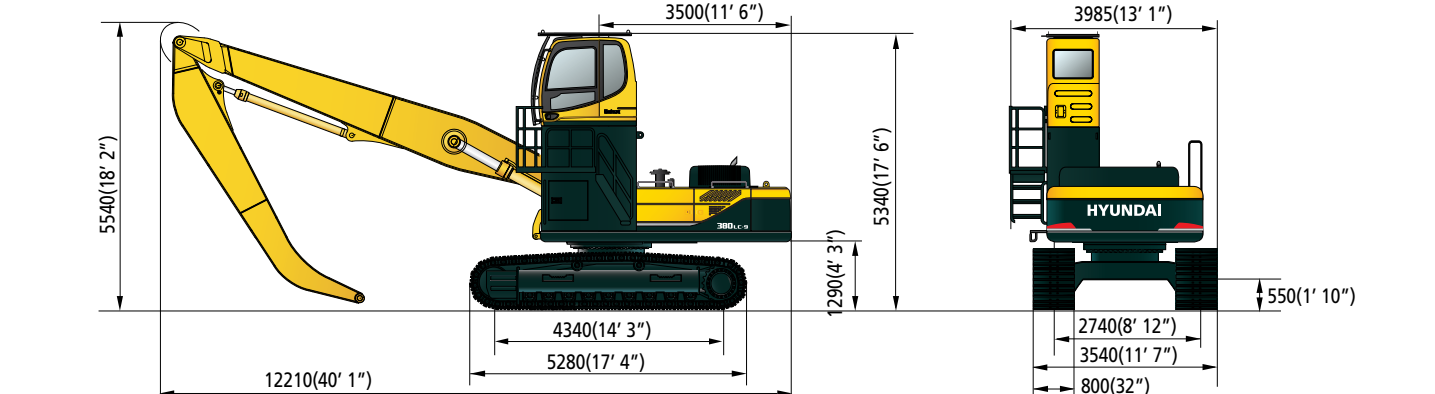
R290LC-9 MH 2PIECE FRONT

Boom : 7.8 m (25' 7") / Arm : 5.4 m (17' 9") / Shoe : 800mm (32") triple grouser

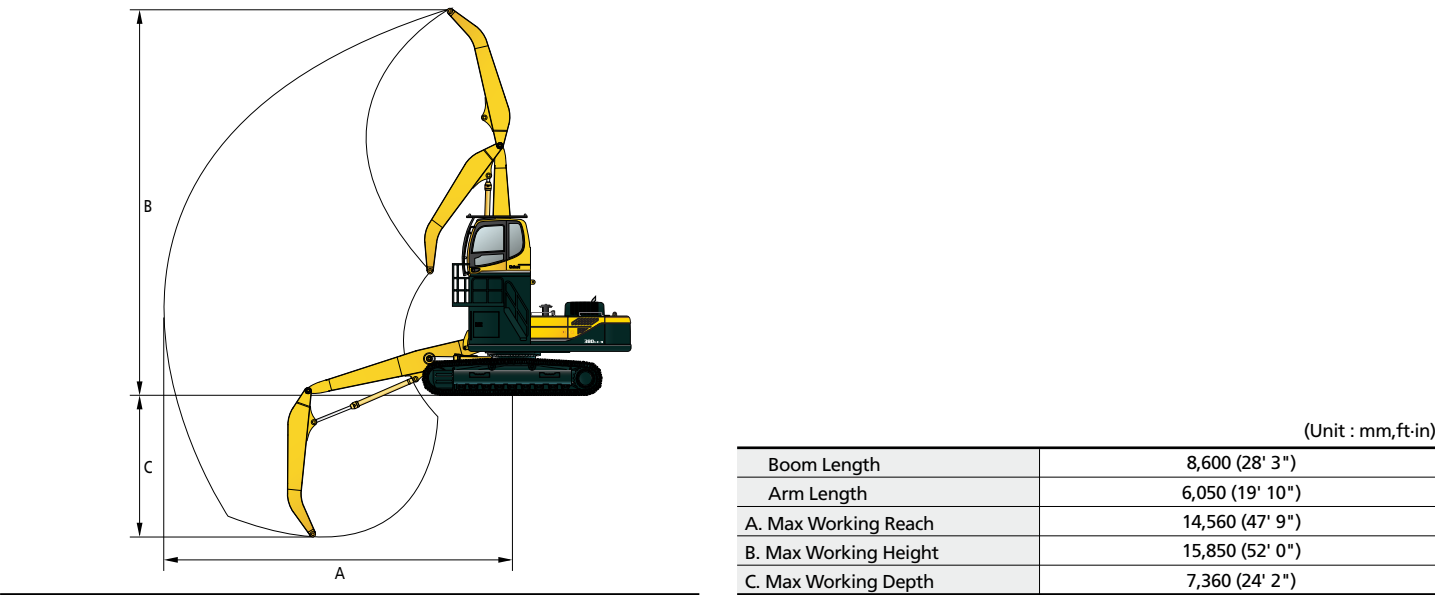
Load point height m (ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Load radius		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		12.0 m (40 ft)		At max. reach		
																		Capacity		Reach
																				m (ft)
12.0 m (40 ft)	kg					*7367	*7367	*6892	*6892									*6202	*6202	8.34
	lb					*16241	*16241	*15194	*15194									*13673	*13673	(27.4)
10.5 m (35 ft)	kg							*6502	*6502	*6181	6110							*5584	5188	9.89
	lb							*14335	*14335	*13627	13470							*12311	11438	(32.4)
9.0 m (30 ft)	kg					*6967	*6967	*6458	*6458	*6057		*5755	4768					*5250	4373	11.02
	lb					*15360	*15360	*14238	*14238	*13354	*13354	*12688	10511					*11575	9640	(36.1)
7.5 m (25 ft)	kg					*7342	*7342	*6673	*6673	*6147	6092	*5727	4767					*5073	3876	11.85
	lb					*16186	*16186	*14712	*14712	*13551	13430	*12626	10510					*11183	8546	(38.9)
6.0 m (20 ft)	kg			*9504	*9504	*8087	*8087	*7106	*7106	*6384	5965	*5826	4702	*5364	3788			*5000	3559	12.44
	lb			*20953	*20953	*17829	*17829	*15665	*15665	*14075	13150	*12845	10367	*11825	8351	*11023	7846	(40.8)		
4.5 m (15 ft)	kg			*11525	*11525	*9136	*9136	*7691	7561	*6712	5789	*5990	4600	*5403	3743	4989	3359	12.83		
	lb			*25408	*25408	*20141	*20141	*16956	16668	*14798	12762	*13207	10142	*11912	8252	10999	7405	(42.1)		
3.0 m (10 ft)	kg			*13830	*13830	*10275	9888	*8315	7225	*7059	5588	*6163	4480	*5445	3679	4840	3245	13.03		
	lb			*30490	*30490	*22653	21799	*18330	15928	*15562	12320	*13587	9877	*12004	8111	10670	7155	(42.7)		
1.5 m (5 ft)	kg			*4895	*4895	*11165	9333	*8820	6906	*7334	5395	*6282	4362	5394	3614	*4791	3206	13.05		
	lb			*10792	*10792	*24615	20575	*19445	15225	*16169	11893	*13850	9617	11892	7967	*10562	7067	(42.8)		
Ground Line	kg			*3841	*3841	*11528	8942	*9062	6656	*7448	5235	*6281	4264	*5304	3562	*4625	3237	12.9		
	lb			*8468	*8468	*25416	19714	*19978	14674	*16420	11541	*13847	9400	*11693	7853	*10197	7136	(42.3)		
-1.5 m (-5 ft)	kg	*1928	*1928	*4522	*4522	*11286	8734	*8945	6499	*7319	5128	*6083	4199	*4957	3539	*4414	3346	12.57		
	lb	*4252	*4252	*9969	*9969	*24881	19255	*19720	14328	*16136	11306	*13412	9258	*10929	7801	*9731	7376	(41.2)		
-3.0 m (-10 ft)	kg	*3381	*3381	*5693	*5693	*10470	8673	*8414	6435	*6670	5083	*5593	4181	*4176	3566	*4120	3553	12.04		
	lb	*7455	*7455	*12551	*12551	*23083	19121	*18549	14187	*15145	11207	*12330	9219	*9207	7861	*9084	7833	(39.5)		
-4.5 m (-15 ft)	kg			*7098	*7098	*9092	8725	*7408	6457	*5596	5105	*4629	4225			*3684	*3684	11.29		
	lb			*15648	*15648	*20044	19235	*16331	14235	*13218	11255	*10206	9315			*8123	*8123	(37)		
-6.0 m (-20 ft)	kg					*7077	*7077	*5801	*5801	*4484	*4484					*4376	*4376	9.11		
	lb					*15602	*15602	*12790	*12790	*9885	*9885					*9647	*9647	(29.9)		

Dimensions & Working Range _ R380LC-9 MH (Cabin Riser / 2Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



Lifting Capacity

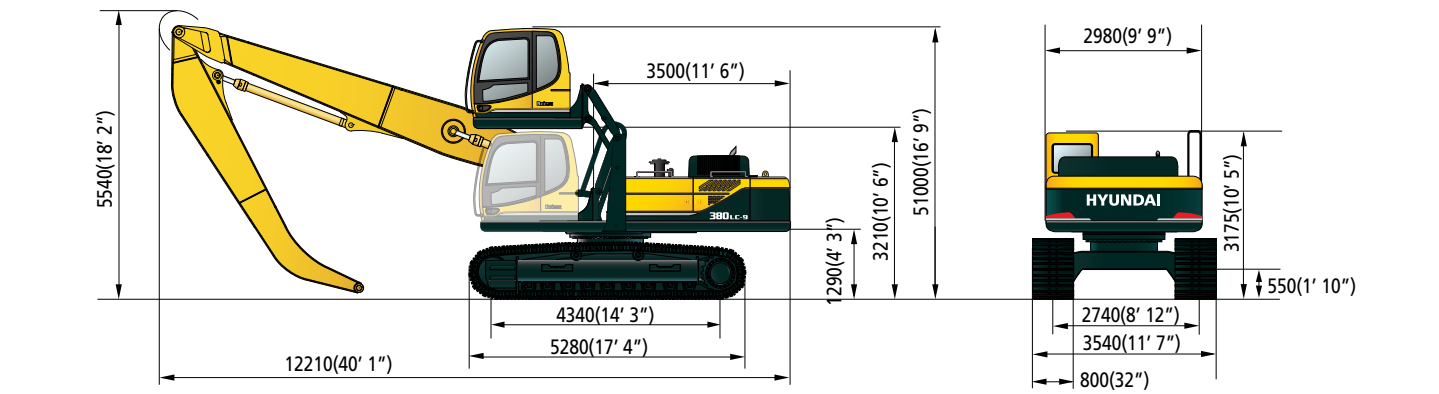
R380LC-9 MH 2PIECE FRONT

Boom : 8.6 m (28' 3") / Arm : 6.05 m (19' 10") / Shoe : 800mm (32") triple grouser

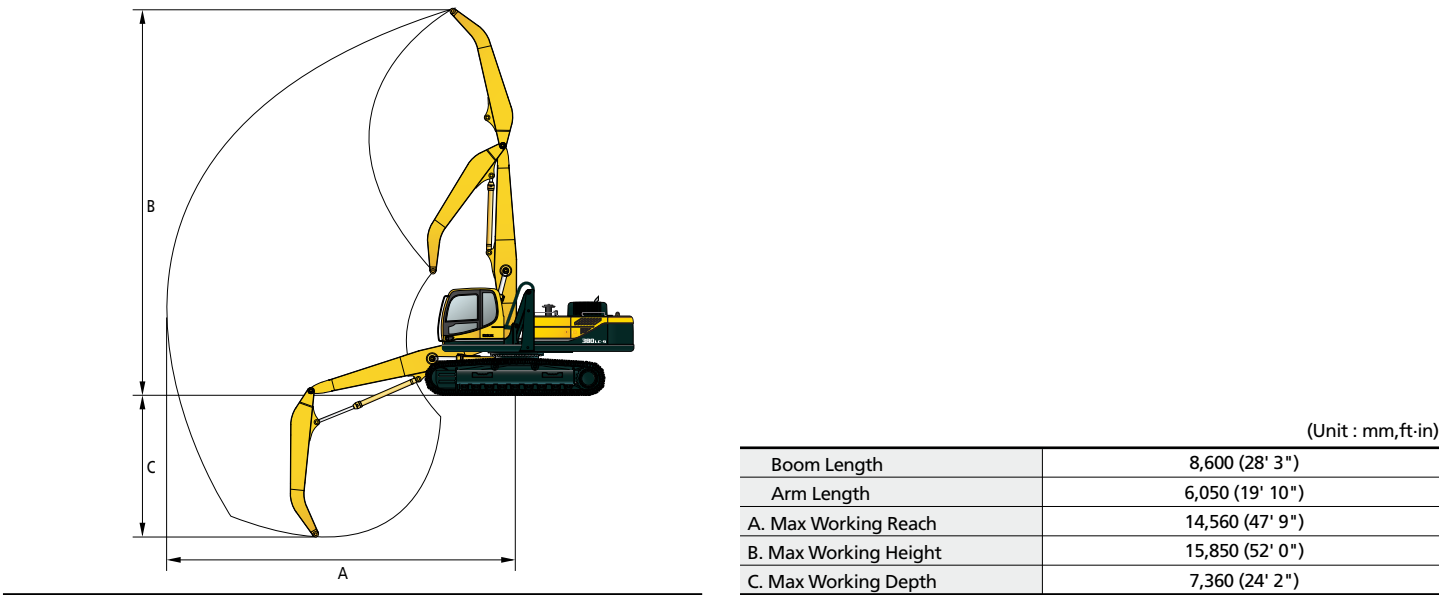
Load point height m (ft)		Load radius																At max. reach					
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		12.0 m (40 ft)		13.5 m (45 ft)		Capacity		Reach			
																				m (ft)			
13.5 m (45 ft)	kg																						
	lb																						
12.0 m (40 ft)	kg																						
	lb																						
10.5 m (35 ft)	kg																						
	lb																						
9.0 m (30 ft)	kg																						
	lb																						
7.5 m (25 ft)	kg																						
	lb																						
6.0 m (20 ft)	kg																						
	lb																						
4.5 m (15 ft)	kg																						
	lb																						
3.0 m (10 ft)	kg																						
	lb																						
1.5 m (5 ft)	kg																						
	lb																						
Ground Line	kg																						
	lb																						
-1.5 m (-5 ft)	kg																						
	lb																						
-3.0 m (-10 ft)	kg																						
	lb																						
-4.5 m (-15 ft)	kg																						
	lb																						
-6.0 m (-20 ft)	kg																						
	lb																						

Dimensions & Working Range _ R380LC-9 MH (Cabin Elevating / 2Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



Lifting Capacity

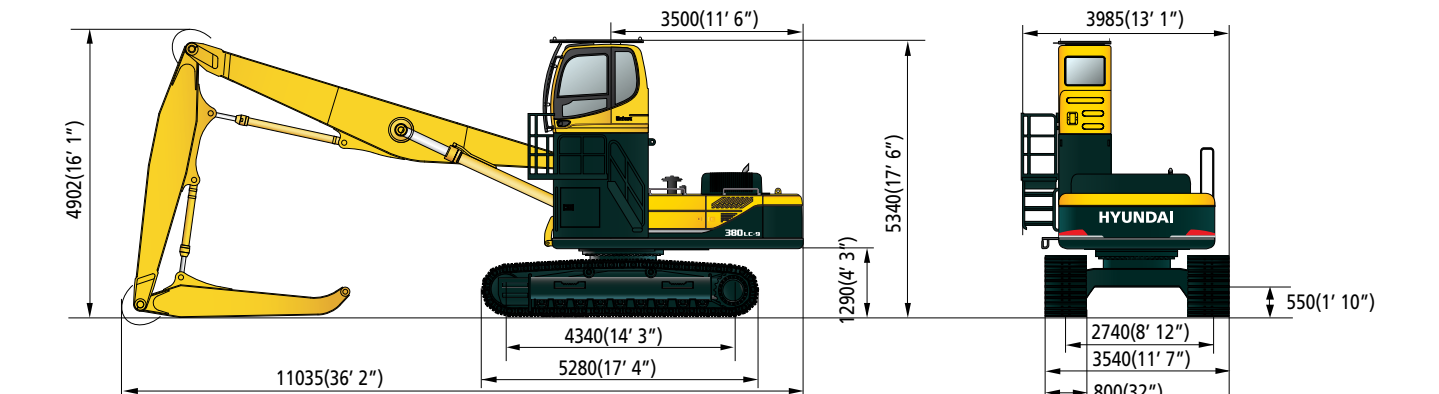
R380LC-9 MH 2PIECE FRONT

Boom : 8.6 m (28' 3") / Arm : 6.05 m (19' 10") / Shoe : 800mm (32") triple grouser

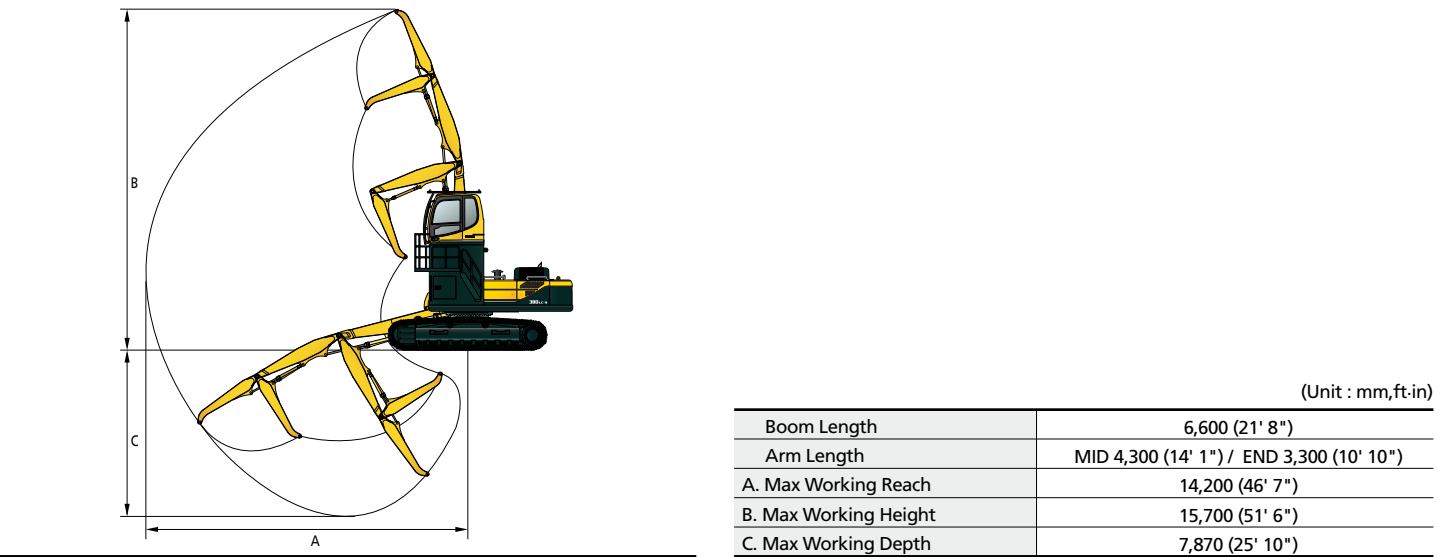
Load point height m (ft)		Load radius														At max. reach				
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		12.0 m (40 ft)		13.5 m (45 ft)		Capacity	Reach	
																				m (ft)
13.5 m (45 ft)	kg							*8145	*8145	*6988	*6988							*6752	*6752	9.1
	lb							*17956	*17956	*15407	*15407							*14886	*14886	(29.9)
12.0 m (40 ft)	kg							*7700	*7700	*7232	*7232	*6649	5551					*6061	5321	10.72
	lb							*16976	*16976	*15944	*15944	*14659	12267					*13363	11730	(35.2)
10.5 m (35 ft)	kg							*7589	*7589	*7086	*7086	*6693	5681					*5666	4443	11.94
	lb							*16732	*16732	*15622	*15622	*14755	12524					*12491	9795	(39.2)
9.0 m (30 ft)	kg							*7751	*7751	*7158	*7158	*6678	5672	*6288	4471			*5432	3892	12.86
	lb							*17087	*17087	*15781	*15781	*14722	12504	*13862	9857			*11975	8580	(42.2)
7.5 m (25 ft)	kg							*8164	*8164	*7404	7172	*6801	5580	*6308	4441			*5304	3524	13.55
	lb							*17999	*17999	*16323	15811	*14994	12303	*13906	9792			*11694	7770	(44.5)
6.0 m (20 ft)	kg					*10216	*10216	*8798	*8798	*7704	6928	*7017	5429	*6405	4357	*5520	3555	5179	3276	14.05
	lb					*22521	*22521	*19395	*19395	*17161	15274	*15471	11968	*14121	9606	*12170	7838	11418	7223	(46.1)
4.5 m (15 ft)	kg					*11578	*11578	*9572	8694	*8241	6624	*7281	5237	*6536	4240	5553	3541	4957	3114	14.38
	lb					*25524	*25524	*21102	19167	*18169	14603	*16052	11545	*14410	9348	12242	7806	10929	6865	(47.2)
3.0 m (10 ft)	kg					*12950	12950	*10343	8150	*8692	6295	*7537	5028	6469	4109	5493	3484	4834	3020	14.54
	lb					*28551	28551	*22803	17985	*19163	13879	*16615	11085	14261	9059	12110	7682	10658	6658	(47.7)
1.5 m (5 ft)	kg					*13927	13927	*10932	7667	*9039	5986	7673	4828	6333	3982	5416	3412	4799	2987	14.54
	lb					*30703	30703	*24102	16902	*19927	13197	16917	10645	13962	8780	11941	7522	10579	6584	(47.7)
Ground	kg					*10605	10605	*11189	7289	*9188	5734	7492	4661	6219	3786	5340	3340	4849	3012	14.38
	lb					*23380	23380	*24668	16070	*20257	12641	16515	10275	13711	8545	11773	7365	10690	6641	(47.2)
Line																				
-1.5 m (-5 ft)	kg			*4087	*4087	*9438	*9438	*11035	7051	*9069	5560	7363	4542	6142	3804	5280	3284	*4730	3102	14.06
	lb			*9010	*9010	*20807	*20807	*24329	15545	*19993	12258	16233	10014	13541	8387	11641	7240	*10428	6840	(46.1)
-3.0 m (-10 ft)	kg	*3329	*3329	*5431	*5431	*10019	10019	*10444	6943	*8622	5471	*7194	4483	*5955	3779	5253	3258	*4415	3271	13.57
	lb	*7339	*7339	*11973	*11973	*22088	22088	*23024	15306	*19007	12063	*15859	9884	*13129	8332	11581	7184	*9734	7211	(44.5)
-4.5 m (-15 ft)	kg	*4851	*4851	*6915	*6915	*11370	11370	*9389	6946	*7784	5467	*6413	4491	*5057	3817	*4513	3287	*3977	3545	12.88
	lb	*10695	*10695	*15245	*15245	*25067	25067	*20698	15314	*17160	12053	*14138	9902	*11150	8416	*9950	7246	*8769	7815	(42.3)
-6.0 m (-20 ft)	kg			*8529	*8529	*9272	*9272	*7805	7051	*6450	5549	*5104	4580					*3568	*3568	11.83
	lb			*18803	*18803	*20442	*20442	*17208	15545	*14219	12234	*11252	10098					*7866	*7866	(38.8)

Dimensions & Working Range _ R380LC-9 MH (Cabin Riser / 3Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



Lifting Capacity

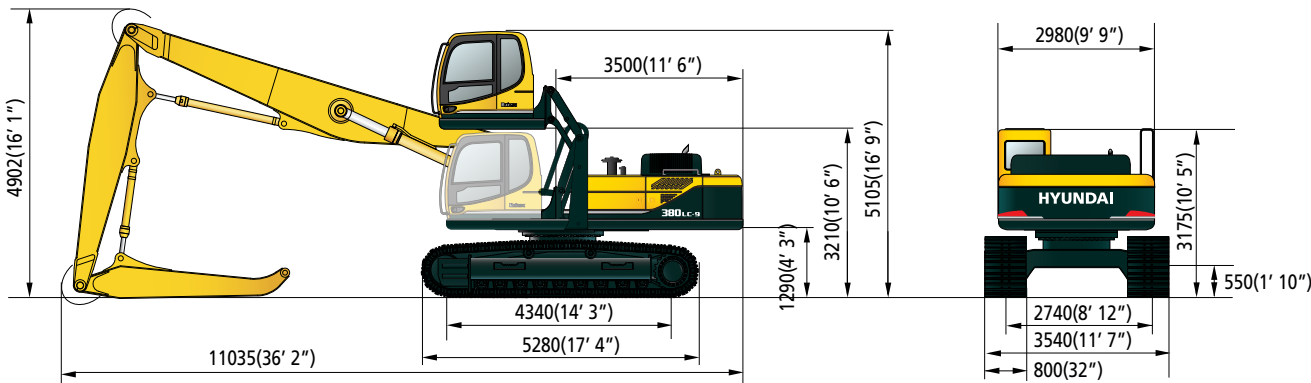
R380LC-9 MH 3PIECE FRONT

Boom : 6.60m (21' 8") / Middle Arm : 4.30m (14' 1") / End Arm : 3.30m (10' 10") / Shoe : 800mm (32") triple grouser

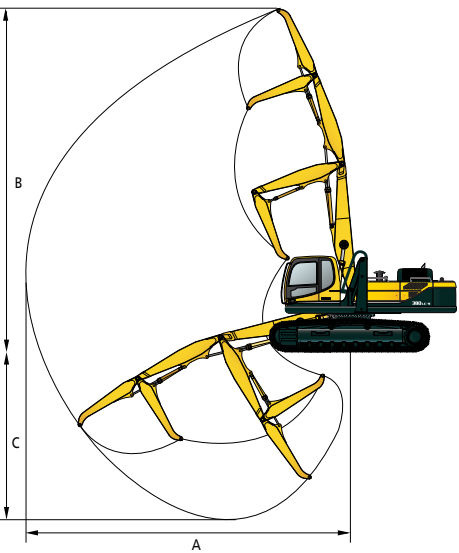
Load point height m (ft)		Load radius														At max. reach				
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		12.0 m (40 ft)		13.5m (45 ft)		Capacity	Reach	
																				m (ft)
13.5m (45ft)	kg																			
	lb																			
12.0m (40ft)	kg																			
	lb																			
10.5m (35ft)	kg																			
	lb																			
9.0m (30ft)	kg																			
	lb																			
7.5m (25ft)	kg																			
	lb																			
6.0m (20ft)	kg																			
	lb																			
4.5m (15ft)	kg																			
	lb																			
3.0m (10ft)	kg																			
	lb																			
1.5m (5ft)	kg																			
	lb																			
Ground Line	kg																			
	lb																			
-1.5m (-5ft)	kg																			
	lb																			
-3.0m (-10ft)	kg																			
	lb																			
-4.5m (-15ft)	kg																			
	lb																			
-6.0m (-20ft)	kg																			
	lb																			
-7.5m (-25ft)	kg																			
	lb																			

Dimensions & Working Range _ R380LC-9 MH (Cabin Elevating / 3Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



(Unit : mm,ft-in)	
Boom Length	6,600 (21' 8")
Arm Length	MID 4,300 (14' 1") / END 3,300 (10' 10")
A. Max Working Reach	14,200 (46' 7")
B. Max Working Height	15,700 (51' 6")
C. Max Working Depth	7,870 (25' 10")

Lifting Capacity

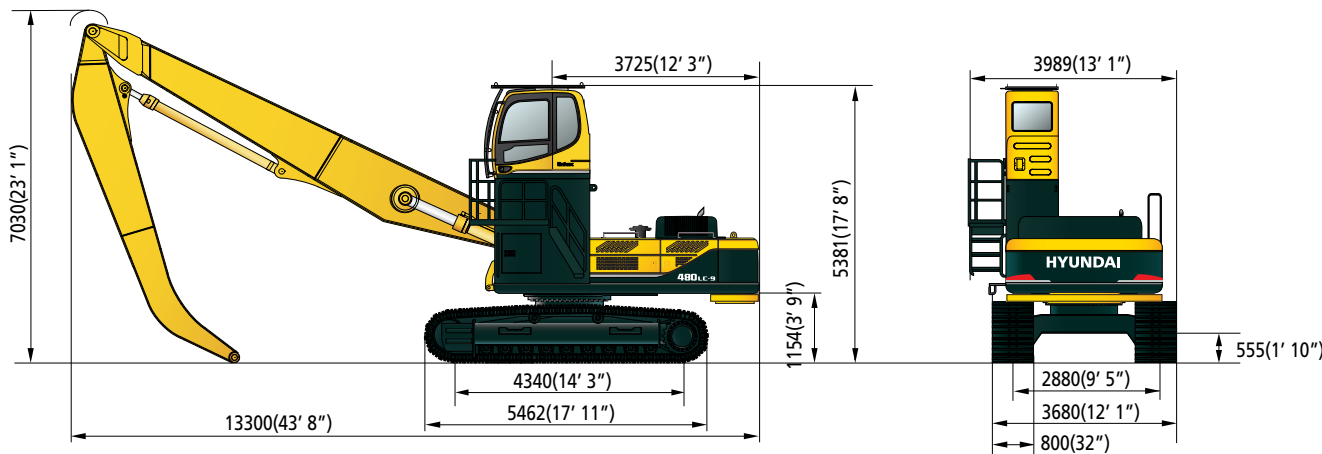
R380LC-9 MH 3PIECE FRONT

Boom : 6.60m (21' 8") / Middle Arm : 4.30m (14' 1") / End Arm : 3.30m (10' 10") / Shoe : 800mm (32") triple grouser

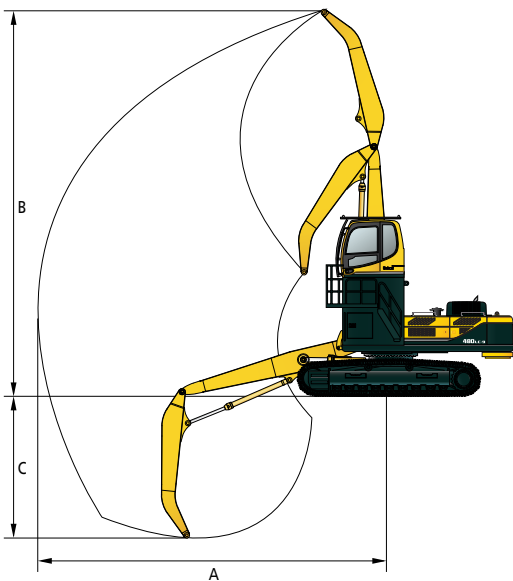
Load point height m (ft)		Load radius																At max. reach			
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		12.0 m (40 ft)		13.5m (45 ft)		Capacity		Reach	
																					m (ft)
13.5m (45ft)	kg					*6363	*6363	*5963	*5963										*6043	5539	8.64
	lb					*14028	*14028	*13146	*13146										*13322	12211	(28.22)
12.0m (40ft)	kg					*6452	*6452	*5847	*5847	*5433	*5433								*5410	4446	10.34
	lb					*14224	*14224	*12891	*12891	*11977	*11977								*11926	9802	(33.77)
10.5m (35ft)	kg					*7123	*7123	*6225	*6225	*5570	*5570	*5128	*5128						*5055	3817	11.59
	lb					*15704	*15704	*13723	*13723	*12280	*12280	*11305	*11305						*11145	8416	(37.87)
9.0m (30ft)	kg	*9611	*9611			*8094	*8094	*6576	*6576	*5595	*5595	*5307	*5307			*4856	4739	4733	3415	12.54	
	lb	*21189	*21189			*17845	*17845	*14497	*14497	*12334	*12334	*11701	*11701	*10705	10447	10434	7528	7528	6095	(40.95)	
7.5m (25ft)	kg	*7112	*7112	*8364	*8364	*8241	*8241	*6645	*6645	*5838	*5838	*5685	*5685	*5006	4695	4411	3142	3142	2958	13.76	
	lb	*15679	*15679	*18439	*18439	*18169	*18169	*14649	*14649	*12870	*12870	*12533	*12533	*11037	10351	9725	6926	6926	5497	(43.28)	
6.0m (20ft)	kg	*7090	*7090	*7553	*7553	*8309	*8309	*6658	*6658	*6437	*6437	*6144	5555	*5263	4597	*4675	3824	4195	2958	13.76	
	lb	*15630	*15630	*16652	*16652	*18319	*18319	*14679	*14679	*14190	*14190	*13546	12246	*11604	10134	*10308	8431	9248	6521	(44.95)	
4.5m (15ft)	kg			*7680	*7680	*8304	*8304	*7506	*7506	*7335	6699	*6772	5359	*5607	4482	*4813	3780	4057	2840	14.09	
	lb			*16932	*16932	*18308	*18308	*16547	*16547	*16170	14769	*14929	11815	*12362	9881	*10610	8334	8945	6262	(46.03)	
3.0m (10ft)	kg			*8812	*8812	*10947	10396	*9037	7568	*8231	6462	*7723	5186	*5961	4372	*4977	3724	3986	2778	14.25	
	lb			*19426	*19426	*24135	22918	*19923	16686	*18146	14247	*17027	11433	*13141	9638	*10972	8210	8787	6125	(46.56)	
1.5m (5ft)	kg			*13653	*13653	*12309	10736	*10484	7697	*9154	6247	8095	5056	*6302	4284	*5124	3676	3973	2765	14.26	
	lb			*30100	*30100	*27137	23668	*23113	16969	*20182	13773	17847	11147	*13893	9445	*11296	8105	8758	6095	(46.57)	
Ground Line	kg			*13435	*13435	*14296	10746	*11663	7843	9901	6089	8012	4980	*6538	4228	*5206	3651	4018	2800	14.1	
	lb			*29620	*29620	*31517	23691	*25713	17291	21828	13423	17663	10978	*14415	9321	*11477	8048	8858	6172	(46.05)	
-1.5m (-5ft)	kg	*15288	*15288	*13492	*13492	*13918	10555	*12473	7706	9820	6015	7986	4956	*6623	4211	*5185	3661	4127	2888	13.77	
	lb	*33703	*33703	*29744	*29744	*30683	23270	*27498	16989	21650	13262	17606	10925	*14602	9283	*11431	8072	9098	6366	(44.98)	
-3.0m (-10ft)	kg	*14609	*14609	*13479	*13479	*13928	10551	*12202	7702	9856	6048	8014	4981	*6554	4238			4312	3039	13.26	
	lb	*32208	*32208	*29717	*29717	*30707	23260	*26901	16979	21728	13333	17667	10982	*14450	9344			9507	6701	(43.33)	
-4.5m (-15ft)	kg	*15845	*15845	*13438	*13438	*12930	10670	*10456	7807	*9443	6134	8093	5055	*6263	4325			4597	3275	12.56	
	lb	*34932	*34932	*29626	*29626	*28506	23523	*23051	17211	*20817	13524	17843	11143	*13808	9535			10135	7219	(41.03)	
-6.0m (-20ft)	kg	*16382	*16382	*15930	*15930	*12231	10860	*9993	7963	*8455	6269	*7304	5190					4677	3341	12.38	
	lb	*36116	*36116	*35041	*35041	*26723	24610	*21703	18103									10311	7365	(40.43)	
-7.5m (-25ft)	kg			*15894	*15894	*12121	11163	*9844	8211									4677	3341	12.38	
	lb					*35041	*26723	24610	*21703	18103								10311	7365	(40.43)	

Dimensions & Working Range _ R480LC-9 MH (Cabin Riser / 2Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



(Unit : mm,ft-in)	
Boom Length	10,000 (32' 10")
Arm Length	7,100 (23' 4")
A. Max Working Reach	16,755 (54' 12")
B. Max Working Height	18,320 (60' 1")
C. Max Working Depth	6,875 (22' 7")

Lifting Capacity

R480LC-9 MH 2PIECE FRONT

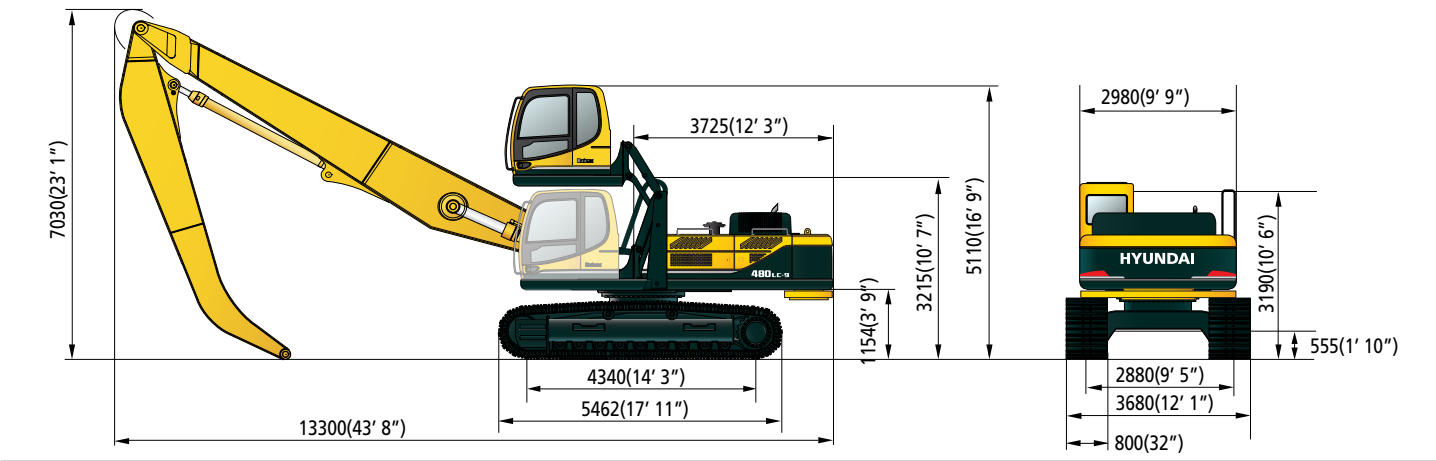
Boom : 10.0 m (32' 10") / Arm : 7.1 m (23' 4") / Shoe : 800mm(32") triple grouser

Load point height m (ft)		Load radius														At max. reach			
		3.0 m (9.8 ft)		5.0 m (16.4 ft)		7.0 m (23.0 ft)		9.0 m (29.5 ft)		11.0 m (36.1 ft)		13.0 m (42.7 ft)		15.0 m (49.2 ft)		Capacity		Reach	
																		m (ft)	
15.0 m (49.2 ft)	kg							*10185	*10185								*9324	8505	10.37
	lb							*22454	*22454								*20556	18750	(34)
13.5 m (44.3 ft)	kg							*9909	*9909	*8714	7907						*8219	6781	12.01
	lb							*21846	*21846	*19211	17432						*18120	14950	(39.4)
12.0 m (39.4 ft)	kg							*9817	*9817	*8603	7978	*7629	5993				*7502	5764	13.27
	lb							*21643	*21643	*18969	17588	*16819	13212				*16539	12707	(43.5)
10.5 m (34.4 ft)	kg							*9880	*9880	*8604	7951	*7583	6028				*6979	5095	14.27
	lb							*21782	*21782	*18969	17529	*16718	13289				*15386	11233	(46.8)
9.0 m (29.5 ft)	kg					*11593	*11593	*10080	*8689	7846	*7591	5987	*6589	4659			*6562	4630	15.05
	lb					*25558	*25558	*22223	*22223	*19156	17297	*16735	13190	*14526	10271		*14467	10207	(49.4)
6.0 m (19.7 ft)	kg			*9159	*9159	*13405	*13405	10076	10057	*9004	7456	*7677	5770	*6544	4580		*5887	4065	16.08
	lb			*20192	*20192	*29553	*29553	*23757	22172	*19850	16442	*16925	12721	*14427	10097		*12979	8962	(52.8)
3.0 m (9.8 ft)	kg	*5372	*5372			*14856	12907	*11414	9171	*9232	6944	*7657	5466	*6343	4415		*5267	3807	16.51
	lb	*11843	*11843			*32752	28455	*25164	20219	*20353	15309	*16881	12050	*13984	9733		*11612	8393	(54.2)
Ground Line	kg			*2121	*2121														16.38
	lb			*4676	*4676	*30690													(53.7)
-3.0 m (-9.8 ft)	kg			*4754	*4754	*11675	11159	*9525	8054	*7629	6237	*6009	5040	*4346	4207		*3613	*3613	15.68
	lb			*10481	*10481	*25730	24601	*20909	17756	*16819	13150	*13248	11111	*9581	9275		*7965	*7965	(51.4)
-4.5 m (-14.8 ft)	kg			*6440	*6440	*9757	*9757	*8104	8013	*6509	6205	*4967	*4967	*3086	*3086		*2968	*2968	15.09
	lb			*14198	*14198	*21511	*23511	*17866	17666	*14350	13680	*10950	*10950	*6803	*6803		*6543	*6543	(49.5)

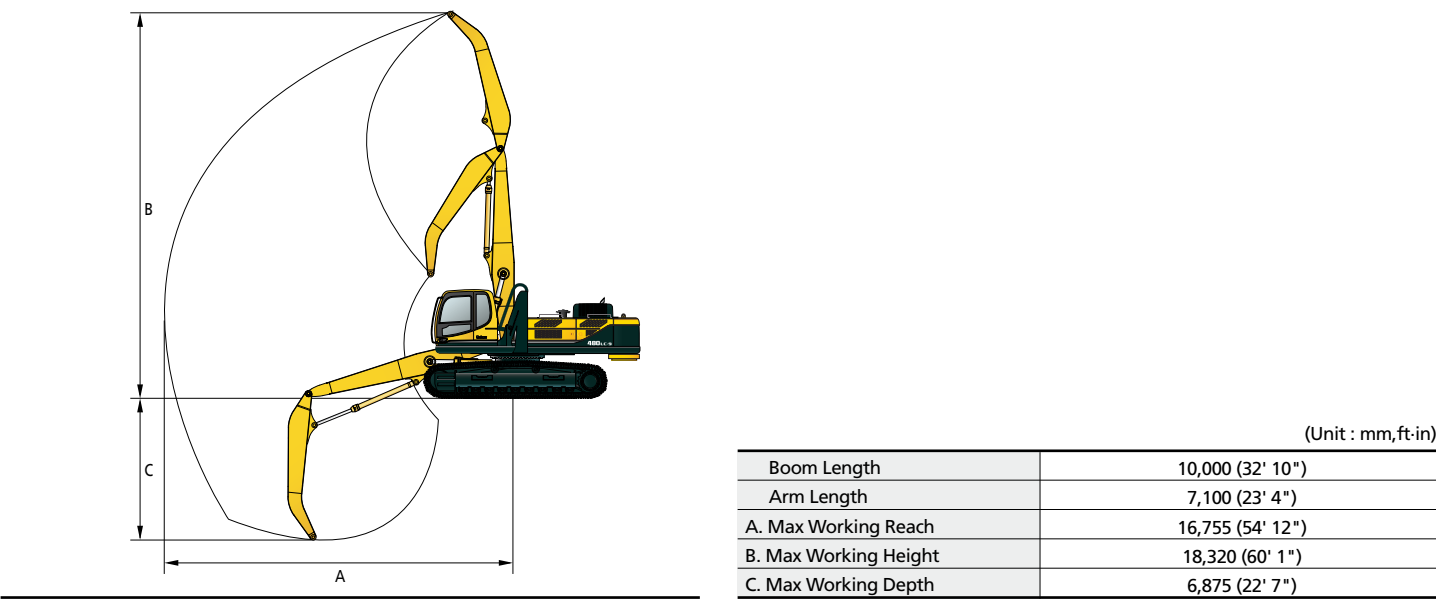
1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited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

Dimensions & Working Range _ R480LC-9 MH (Cabin Elevating / 2Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



Lifting Capacity

R480LC-9 MH 2PIECE FRONT

Boom : 10.0 m (32' 10") / Arm : 7.1 m (23' 4") SAE heaped / Shoe : 800mm(32") triple grouser

Load point height m (ft)	Load radius												At max. reach		
	3.0 m (9.8 ft)		5.0 m (16.4 ft)		7.0 m (23.0 ft)		9.0 m (29.5 ft)		11.0 m (36.1 ft)		13.0 m (42.7 ft)		15.0 m (49.2 ft)		m (ft)
15.0 m (49.2 ft)	kg														
13.5 m (44.3 ft)	kg														
12.0 m (39.4 ft)	kg														
10.5 m (34.4 ft)	kg														
9.0 m (29.5 ft)	kg														
7.5 m (24.5 ft)	kg														
6.0 m (19.6 ft)	kg														
4.5 m (14.7 ft)	kg														
3.0 m (9.8 ft)	kg														
Ground	kg														
Line	kg														
-3.0 m (-9.8 ft)	kg														
-4.5 m (-14.8 ft)	kg														

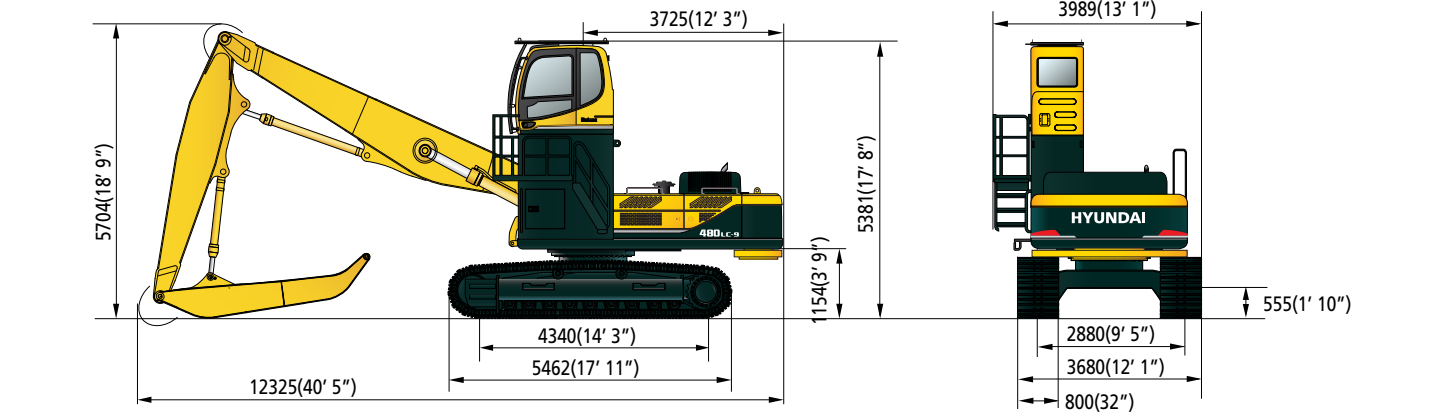
1. Lifting capacity is based on SAE J1097, ISO 10567.

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.

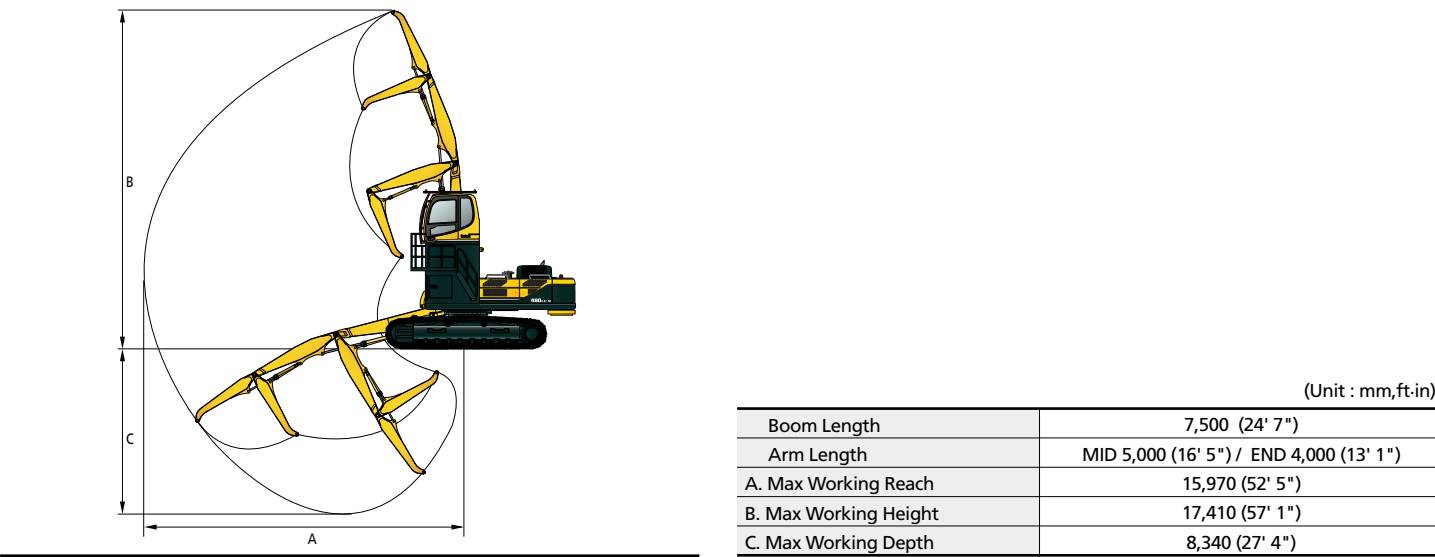
4. (*) indicates the load limited by hydraulic capacity.

Dimensions & Working Range _ R480LC-9 MH (Cabin Riser / 3Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



Lifting Capacity

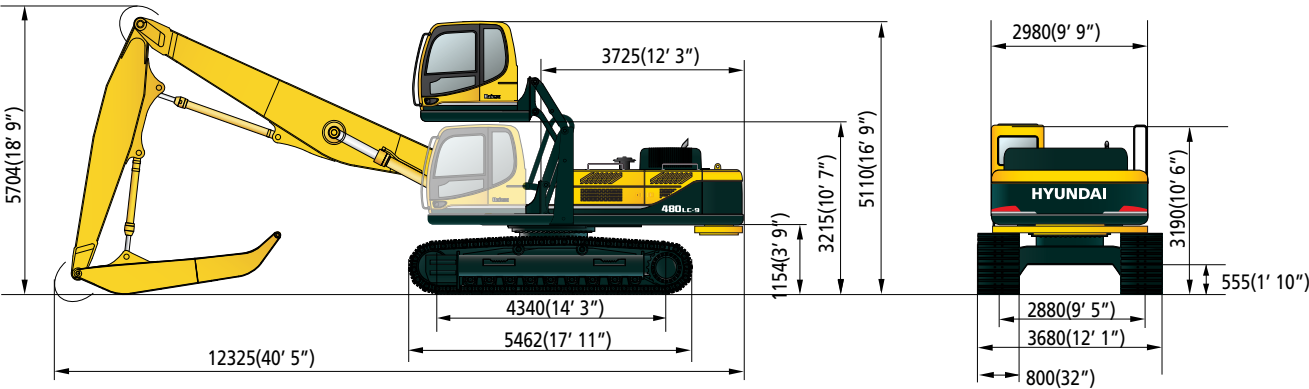
R480LC-9 MH 3PIECE FRONT

Boom : 7.5 m (24' 7") / Middle Arm : 5.00 m (16' 5") / End Arm : 4.00 mm (13' 1") / Shoe : 800 mm (32") triple grouser

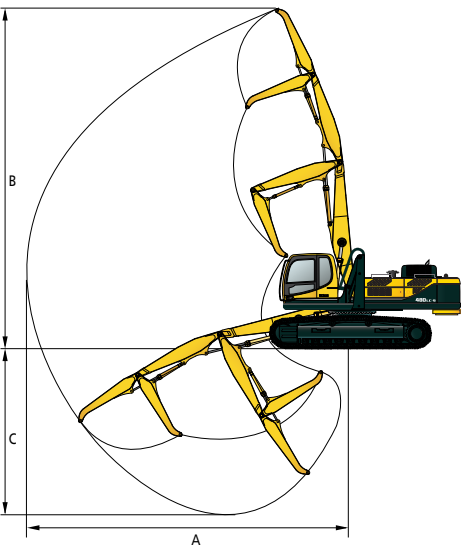
Load point height m (ft)	Load radius																		At max. reach		
	3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		12.0 m (40 ft)		13.5 m (45 ft)		15.0 m (50 ft)		Capacity		m (ft)
12.0m (39.2ft)	kg																				
10.5m (34.3ft)	kg																				
9.0m (29.4ft)	kg																				
7.5m (24.5ft)	kg																				
6.0m (19.6ft)	kg																				
4.5m (14.7ft)	kg																				
3.0m (9.8ft)	kg																				
1.5m (4.9ft)	kg																				
Ground	kg																				
Line	kg																				
-1.5m (-4.9ft)	kg																				
-3.0m (-9.8ft)	kg																				
-4.5m (-14.7ft)	kg																				
-6.0m (-19.6ft)	kg																				
-7.5m (-24.5ft)	kg																				
-9.0m (-29.4ft)	kg																				

Dimensions & Working Range _ R480LC-9 MH (Cabin Elevating / 3Piece Front)

DIMENSIONS (Unit : mm,ft-in)



WORKING RANGE



(Unit : mm,ft-in)	
Boom Length	7,500 (24' 7")
Arm Length	MID 5,000 (16' 5") / END 4,000 (13' 1")
A. Max Working Reach	15,970 (52' 5")
B. Max Working Height	17,410 (57' 1")
C. Max Working Depth	8,340 (27' 4")

Lifting Capacity

R480LC-9 MH 3PIECE FRONT

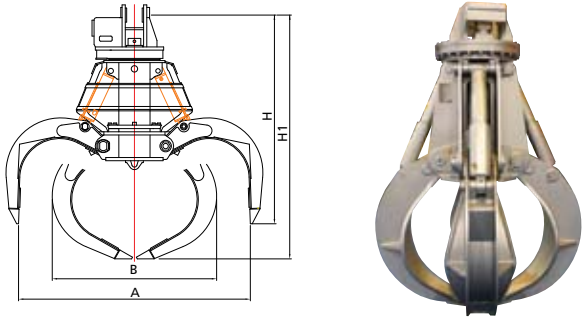
Boom : 7.5 m (24' 7") / Middle Arm : 5.00 m (16' 5") / End Arm : 4.00 mm (13' 1") / Shoe : 800 mm (32") triple grouser

Load point height m (ft)		Load radius																At max. reach						
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		12.0 m (40 ft)		13.5 m (45 ft)		15.0 m (50 ft)		Capacity		Reach		
																						m (ft)		
12.0m (39.2ft)	kg														*5566	*5566					*5218	5216	12.78	
	lb														*12271	*12271					*11503	11499	(41.73)	
10.5m (34.3ft)	kg																				*5122	4665	13.82	
	lb																				*11292	10286	(45.16)	
9.0m (29.4ft)	kg																				*5089	4279	14.64	
	lb																				*11219	9433	(47.83)	
7.5m (24.5ft)	kg																					4970	4004	15.26
	lb																					10957	8828	(49.85)
6.0m (19.6ft)	kg																					4754	3807	15.72
	lb																					10481	8394	(51.34)
4.5m (14.7ft)	kg																					3995	4608	16.02
	lb																					8808	10159	(52.32)
3.0m (9.8ft)	kg			14676	12808			*10901	10063	*8935	8142	*7581	6742	*6723	5689	6120	4966	5473	4412	4913	3931	4523	3594	16.17
	lb			32356	28237			*24033	22186	*19699	17949	*16712	14863	*14822	12542	13492	10948	12066	9727	10832	8666	9971	7923	(52.82)
1.5m (4.9ft)	kg			14072	12157	11320	9601		*8961	7824		*7700	6521	6807	5539	6013	4856	5394	4330	4861	3877	4492	3563	16.18
	lb			31024	26801	24956	21167		*19755	17248		*16976	14377	15006	12212	13257	10705	11891	9546	10717	8548	9904	7856	(52.86)
Ground Line	kg			13830	11896	11057	9322	9154	7599	7758	6357	6702	5431	5945	4785	5339	4274	4827	4842	4827	3842	4954	3580	16.05
	lb			30490	26225	24377	20551	20181	16753	17103	14014	14776	11972	13106	10549	11770	9422	10641	10641	8469	9954	7893	(52.44)	
-1.5m (-4.9ft)	kg	*16846	16136	13757	11817	10944	9202	9041	7480	7671	6265	6654	5380	5914	4752	5313	4247	4815	3830	4545	3967	4595	3647	15.78
	lb	*37139	35575	30329	26052	24128	20286	19931	16490	16911	13813	14669	11861	13037	10477	11713	9362	10615	8443	10130	8041	(51.55)		
-3.0m (-9.8ft)	kg	*15457	*15457	13742	11800	10936	9193	9018	7456	7658	6253	6671	5398	5918	4757	5318	4252	4835	3850	4741	3773	4535	3535	15.35
	lb	*34076	*34076	30295	26015	24109	20267	19882	16438	16884	13785	14706	11900	13047	10487	11723	9373	10658	8487	10451	8319	(50.14)		
-4.5m (-14.7ft)	kg	*14631	*14631	13780	11841	10980	9240	9071	7512	7715	6311	6717	5446	5955	4795	5356	4291				4965	3969	14.76	
	lb	*32256	*32256	30379	26106	24208	20371	19998	16561	17008	13914	14809	12007	13128	10572	11808	9460				10945	8751	(48.21)	
-6.0m (-19.6ft)	kg	*13455	*13455	*11560	*11560	*9823	9332	*8287	7604	*7767	6397	6790	5522	6023	4866	5436	4373				5292	4258	13.98	
	lb	*29664	*29664	*25485	*25485	*21656	20575	*18270	16764	*17124	14104	14969	12173	13278	10727	11984	9642				11668	9388	(45.67)	
-7.5m (-24.5ft)	kg	*13598	*13598	*11520	*11520	*9135	*9135	*7646	*7646	*7023	6517	*6435	5634	*5737	4985						*5128	4687	12.97	
	lb	*29978	*29978	*25398	*25398	*20140	*20140	*16857	*16857	*15484	14367	*14186	12422	*12648	10990						*11305	10334	(42.38)	
-9.0m (-29.4ft)	kg	*14389	*14389	*11358	*11358	*8983	*8983	*7505	*7505	*6467	*6467	*5674	*5674								*4965	*4965	12.33	
	lb	*31723	*31723	*25040	*25040	*19804	*19804	*16546	*16546	*14257	*14257	*12509	*12509								*10947	*10947	(40.29)	

Attachment Selection

ORANGE GRAPPLE

- * Pendulum Type
- * Rotating Options : Hydraulic Rotating Type, Free Rotating Type, Fixed Type available
- * Number of Tines : 4 / 5 / 6
- * Tines Options : Close Type, Semi-close Type, Open Type

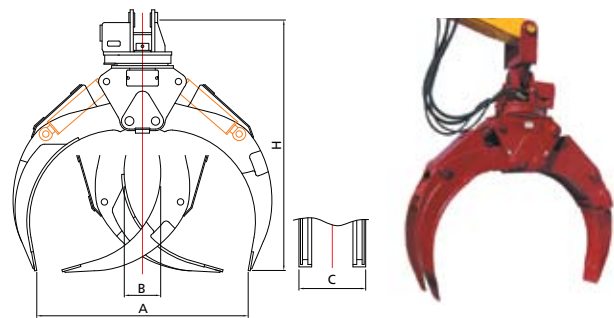


SPECIFICATION

Description		Unit	HDSG800	HDSG1000	HDSG1500
Operating Weight		kg (lb)	1,200 (2650)	1,400 (3090)	2,040 (4500)
Capacity		m³ (yd³)	0.7 (0.92)	0.9 (1.18)	1.4 (1.83)
A		mm (ft · in)	1,820 (5' 12")	2,000 (6' 7")	2,400 (7' 10")
B		mm (ft · in)	1,290 (4' 3")	1,505 (4' 11")	1,770 (5' 10")
C		mm (ft · in)	-	-	-
H		mm (ft · in)	1,630 (5' 4")	1,800 (5' 11")	2,120 (6' 11")
H1		mm (ft · in)	1,905 (6' 3")	2,048 (6' 9")	2,500 (8' 2")
Standard Tines NO.		-	5	5	5
Operating Pressure		kg / psi	280 / 3,983	280 / 3,983	280 / 3,983
Oil Flow Rate		LPM / GPM	200 ~250 / 52.8 ~ 66.1	250 ~300 / 66.1 ~ 79.3	290 ~320 / 76.7 ~ 84.6
Rotating Hydraulic Motor	Motor Setting Pressure	kg / psi	160 / 2,276	160 / 2,276	160 / 2,276
	Motor Oil Flow Rate	LPM / GPM	~ 40 / ~ 10.5	~ 40 / ~ 10.5	~ 40 / ~ 10.5
	Revolving Speed	RPM	16 ~ 18	16 ~ 18	16 ~ 18
Application Equipment			R210W-9 MH	R290LC-9 MH	R380LC-9 MH / R480LC-9 MH

WOOD GRAPPLE

- * Pendulum Type
- * Rotating Type



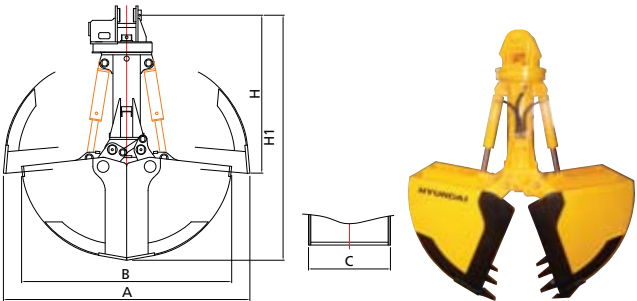
SPECIFICATION

Description		Unit	HDWP800	HDWP1000	HDWP1001
Operating Weight		kg (lb)	1,000 (2200)	1,200 (2650)	2,050 (4520)
Capacity		m³ (yd³)	0.6 (0.78)	0.8 (1.05)	1.9 (2.49)
A		mm (ft · in)	1,520 (4' 12")	1,660 (5' 5")	3,500 (11' 6")
B		mm (ft · in)	304 (0' 12")	300 (0' 12")	478 (1' 7")
C		mm (ft · in)	521 (1' 9")	521 (1' 9")	830 (2' 9")
H		mm (ft · in)	1,724 (5' 8")	1,925 (6' 4")	2,260 (7' 5")
Operating Pressure		kg / psi	280 / 3,983	280 / 3,983	280 / 3,983
Oil Flow Rate		LPM / GPM	200 ~ 250 / 52.8 ~ 66.1	250 ~ 300 / 66.1 ~ 79.3	250 ~ 300 / 66.1 ~ 79.3
Rotating Hydraulic Motor	Motor Setting Pressure	kg / psi	120 / 1,707	120 / 1,707	120 / 1,707
	Motor Oil Flow Rate	LPM / GPM	~ 30 / ~ 7.9	~ 30 / ~ 7.9	~ 30 / ~ 7.9
	Revolving Speed	RPM	16 ~ 18	16 ~ 18	16 ~ 18
Application Equipment			R210W-9 MH	R290LC-9 MH	R380LC-9 MH / R480LC-9 MH

Attachment Selection

CLAMSHELL BUCKET

- * Pendulum Type
- * Rotating Options : Hydraulic Rotating Type, Free Rotating Type, Fixed Type available
- * Teeth can be installde as Option. Standard Clamshell has no teeth.

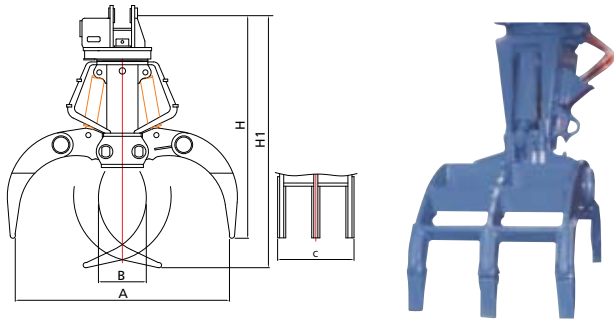


SPECIFICATION

Description		Unit	HDCB800	HDCB1000	HDCB1500
Operating Weight		kg (lb)	980 (2160)	1,100 (2430)	1,350 (2980)
Capacity		m³ (yd³)	0.7 (0.92)	1.0 (1.31)	1.5 (1.96)
A		mm (ft · in)	2,000 (6' 7")	2,128 (6' 12")	2,128 (6' 12")
B		mm (ft · in)	1,715 (5' 8")	1,716 (5' 8")	1,716 (5' 8")
C		mm (ft · in)	800 (2' 7")	1,000 (3' 3")	1,500 (4' 11")
H		mm (ft · in)	1,400 (4' 7")	1,550 (5' 1")	1,550 (5' 1")
H1		mm (ft · in)	2,094 (6' 10")	2,140 (7' 0")	2,140 (7' 0")
Operating Pressure		kg / psi	280 / 3,983	280 / 3,983	280 / 3,983
Oil Flow Rate		LPM / GPM	200 ~ 250 / 52.8 ~ 66.1	250 ~ 300 / 66.1 ~ 79.3	250 ~ 300 / 66.1 ~ 79.3
Rotating Hydraulic Motor	Motor Setting Pressure	kg / psi	120 / 1,707	120 / 1,707	120 / 1,707
	Motor Oil Flow Rate	LPM / GPM	~ 30 / ~ 7.9	~ 30 / ~ 7.9	~ 30
	Revolving Speed	RPM	16 ~ 18	16 ~ 18	16 ~ 18
Application Equipment			R210W-9 MH	R290LC-9 MH	R380LC-9 MH / R480LC-9 MH

BEAM GRAPPLE

- * Pendulum Type
- * Rotating Options : Hydraulic Rotating Type, Fixed Type available



SPECIFICATION

Description		Unit	HDBG800	HDBG1000
Operating Weight		kg (lb)	960 (2120)	1,200 (2650)
Capacity		m³ (yd³)	-	-
A		mm (ft · in)	1,830 (6' 0")	2,030 (6' 8")
B		mm (ft · in)	530 (1' 9")	640 (2' 1")
C		mm (ft · in)	670 (2' 2")	790 (2' 7")
H		mm (ft · in)	1,840 (6' 0")	2,035 (6' 8")
H1		mm (ft · in)	2,120 (6' 11")	2,305 (7' 7")
Operating Pressure		kg / psi	280 / 3,983	280 / 3,983
Oil Flow Rate		LPM / GPM	200 ~ 250 / 52.8 ~ 66.1	250 ~ 300 / 66.1 ~ 79.3
Rotating Hydraulic Motor	Motor Setting Pressure	kg / psi	120 / 1,707	120 / 1,707
	Motor Oil Flow Rate	LPM / GPM	~ 30 / ~ 7.9	~ 30 / ~ 7.9
	Revolving Speed	RPM	16 ~18	16 ~18
Application Equipment			R210W-9 MH	R290LC-9 MH

STANDARD & OPTIONAL EQUIPMENT

STANDARD EQUIPMENT

R210W-9 MH

- 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)
 - Sun visor
 - Lockable door
 - Hot & cool box
 - Storage compartment & Ashtray
 - Cabin roof-cover transparent
 - Radio & USB Player
 - 12 volt power outlet (24V DC to 12V DC converter)
- 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 (FATC)
 - 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
- Four outside rearview mirrors
- Air suspension seat with heater
- Console height adjust system
- Pilot-operated slidable joystick
- Two 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 (10.00-20-Solid)
- Travel alarm
- Boom
 - 6.5m, 21' 4"
- Arm
 - 4.5m, 14' 9"
- Undercarriage
 - Front and rear outrigger
- Manual cabin lowering device

OPTIONAL EQUIPMENT

R210W-9 MH

- Fuel filler pump (50 L/min)
- Beacon lamp
- Cabin FOPS/FOG (ISO/DIS 10262 Level II)
 - FOPS (Falling Object Protective Structure)
 - FOG (Falling Object Guard)
- Cabin roof-steel cover
- Cabin front guard-wire net
- Cabin lights
- Cabin front window rain guard
- Lower frame under cover (Additional)
- Option
 - Boom safety Lock Installed
 - Arm safety Lock Installed
- Tool kit
- Operator suit
- Rearview camera
- Seat
 - Mechanical suspension
 - Mechanical suspension seat with heater
 - Air suspension seat
- Tires - dual (10.00 - 20 dual)
- Fenders (Mudguards)
- Hi-mate (Remote Management System)