



Some of the Photo may include optional equipment.

HYUNDAI CONSTRUCTION EQUIPMENT

Material Handler

R290LC-7A / R320LC-7 / R320LC-7A / R360LC-7A
R450LC-7 / R450LC-7A / R500LC-7 / R500LC-7A / R800LC-7A
R140W-7 / R140W-7A / R200W-7 / R200W-7A



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Built for Maximum Power, Performance, Reliability.

A new chapter in construction equipment has now begun.
Making the dream a reality.

● Features

- High strength, low alloy steel yields maximum strength to weight ratio
- Large diameter pins and wide joints absorb the strain of big loads
- A large selection of grapples and clamshell buckets

Specifications _ Robex 290LC-7A



ENGINE

Model		Cummins QSB 6.7	
Type		Watercooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbocharged, Charger air cooled, Low emission	
Rated flywheel horse power			
SAE	J1995 (gross)	HP(kW)/rpm	227 (169) / 1,900
	J1349 (net)		197 (147) / 1,900
DIN	627 1/1 (gross)	PS(kW)/rpm	230 (169) / 1,900
	627 1/1 (net)		200 (147) / 1,900
Max. torque	kgf.m(lbf.ft)/rpm		96.8 (700) / 1,500
Bore X stroke	mm (in)		107 (4.2) x 124(4.9)
Piston displacement	cc (in³)		6,700 (409)
Batteries	2 X 12V X 160AH		
Starting motor	24V, 4.5kw		
Alternator	24V, 50A		



HYDRAULIC SYSTEM

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2 X 252 l/min (68.7 US gpm / 57.2 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	330 kgf/cm² (4,690 psi)
Travel	360 kgf/cm² (4,765 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	265 kgf/cm² (3,770 psi)
Pilot circuit	35 kgf/cm² (498 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x stroke	Boom : 2-140 X 1,465 mm (5.5" X 57.7")
	Arm : 1-150 X 1,775 mm (5.9" X 69.1")



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)	5.2 km/hr (3.2 mph) / 3.1 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 bucket(ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
External Lights	Two lights mounted on the boom one under the battery box



SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	10.2 rpm



COOLANT & LUBRICANT CAPACITY

(Refilling)	liter	US gal	UK gal
Fuel tank	480	126.8	105.6
Engine coolant	50.0	13.2	11.0
Engine oil	24	6.3	5.3
Swing device(each)	11.0	1.8	1.5
Final drive(each)	5.5	2.9	2.4
Hydraulic system(including tank)	320	84.5	70.4
Hydraulic tank	210.0	55.5	46.2



UNDERCARRIAGE

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 spring and sprocket, assembled track chain with triple grouser shoes.

Description	R290LC-7A
Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	48
No. of carrier roller on each side	2
No. of track roller on each side	9
No. of track guard 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, hydraulic tank and the standard equipment.

Major component weight			
Upperstructure (1.5m cabin riser)		7,950kg	(17,530lb)
Counterweight		7,300kg	(16,090lb)
Two-piece front		4,450kg	(9,810lb)
Operating weight			
Shoes	Operating weight	Ground pressure	
Type	Width mm(in)	kg(lb)	kgf/cm²(psi)
Triple grouser	600 (24)	31,720 (69,930)	0.61 (8.67)
	700 (28)	32,300 (71,710)	0.53 (7.54)
	800 (32)	32,880 (72,490)	0.47 (6.68)
	900 (36)	33,460 (73,770)	0.43 (6.11)
Double grouser	710 (28)	32,890 (72,510)	0.53 (7.54)

Specifications _ Robex 320LC-7 / 7A



ENGINE

Model			R320LC-7	R320LC-7A
			Cummins C8.3-C	Cummins QSC
Type	Watercooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbocharged, Charger air cooled, Low emission			
Rated flywheel horse power				
SAE	J1995 (gross)	HP(kW)/rpm	259 (193) / 1,750	258 (193) / 1,750
	J1349 (net)		232 (173) / 1,750	237 (177) / 1,750
DIN	627 1/1 (gross)	PS(kW)/rpm	263 (193) / 1,750	262 (193) / 1,750
	627 1/1 (net)		235 (173) / 1,750	240 (177) / 1,750
Max. torque	kgf.m(lbf.ft)/rpm		124.3 (899) / 1,300	114.8 (830) / 1,500
Bore X stroke	mm (in)		114 (4.5) X 135 (5.3)	114 (4.5) X 135 (5.3)
Piston displacement	cc (in ³)		8,300 (506)	8,300 (506)
Batteries			2 X 12V X 160AH	2 X 12V X 160AH
Starting motor			24V, 7.2kw	24V, 7.2kw
Alternator			24V, 50A	24V, 50A



HYDRAULIC SYSTEM

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2X260 l/min (76.6 US gpm / 63.8 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	330 kgf/cm² (4,690 psi)
Travel	360 kgf/cm² (4,765 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	265 kgf/cm² (3,700 psi)
Pilot circuit	35 kgf/cm² (500 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x stroke	Boom : 2-150 X 1,480 mm (5.9" X 58.3")
	Arm : 1-150 X 1,755 mm (5.9" X 69.1")



DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	31,000 kgf (68,3500 lbf)
Max. travel speed(high) / (low)	5.3 km/hr (3.3 mph) / 3.1 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 bucket(ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
External Lights	Two lights mounted on the boom one under the battery box



SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.1 rpm



COOLANT & LUBRICANT CAPACITY

(Refilling)	liter	US gal	UK gal
Fuel tank	520	137.4	114.4
Engine coolant	45.0	11.9	9.9
Engine oil	25.5 / *35	6.7 / *9.2	5.6 / *7.7
Swing device(each)	8.0	1.6	1.3
Final drive(each)	7.0	1.8	1.5
Hydraulic system(including tank)	380	100.4	83.6
Hydraulic tank	230	60.8	50.6

* R320LC-7A



UNDERCARRIAGE

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 spring and sprocket, assembled track chain with triple grouser shoes.

Description	R320LC-7 / 7A
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 track guard on each side	2



OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7,800mm (25'7") boom, 6,050mm (19'10") arm, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Major component weight			
Upperstructure (1.5m cabin riser)		8,670kg	(19,110lb)
Counterweight		7,700kg	(16,980lb)
Two-piece front		4,600kg	(10,140lb)
Operating weight			
Shoes	Operating weight	Ground pressure	
Type	Width mm(in)	kg(lb)	kgf/cm²(psi)
Triple grouser	600 (24)	33,210 (73,210)	0.64 (9.10)
	700 (28)	33,810 (74,540)	0.56 (7.96)
	800 (32)	34,210 (75,420)	0.49 (6.97)
	900 (36)	34,610 (76,300)	0.44 (6.26)
Double grouser	710 (28)	34,690 (76,480)	0.56 (7.96)

Specifications _ Robex 360LC-7A



ENGINE

Model		Cummins QSL	
Type	Watercooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbocharged, Charger air cooled, Low emission		
Rated flywheel horse power			
SAE	J1995 (gross)	HP(kW)/rpm	296 (221) / 1,850
	J1349 (net)		271 (202) / 1,850
DIN	627 1/1 (gross)	PS(kW)/rpm	300 (221) / 1,850
	627 1/1 (net)		275 (202) / 1,850
Max. torque	kgf.m(lbf.ft)/rpm		148.0 (1,070) / 1,400
Bore X stroke	mm (in)		114 (4.5) x 145 (5.7)
Piston displacement	cc (in³)		8,900 (540)
Batteries	2 X 12V X 160AH		
Starting motor	24V, 7.2kw		
Alternator	24V, 50A		



HYDRAULIC SYSTEM

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2X288 l/min (76.6 US gpm / 63.8 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	330 kgf/cm² (4,690 psi)
Travel	360 kgf/cm² (4,765 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	260 kgf/cm² (3,700 psi)
Pilot circuit	35 kgf/cm² (500 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x stroke	Boom : 2-160 X 1,500 mm (6.3" X 59.1")
	Arm : 1-150 X 1,755 mm (5.9" X 69.1")



DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	31,000 kgf (68,3500 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 bucket(ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
External Lights	Two lights mounted on the boom one under the battery box



SWING SYSTEM

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



COOLANT & LUBRICANT CAPACITY

(Refilling)	liter	US gal	UK gal
Fuel tank	520	137.4	114.4
Engine coolant	45.0	11.9	9.9
Engine oil	33.5	8.8	7.4
Swing device(each)	8.0	1.6	1.3
Final drive(each)	7.0	1.8	1.5
Hydraulic system(including tank)	380	100.4	83.6
Hydraulic tank	230	60.8	50.6



UNDERCARRIAGE

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 spring and sprocket, assembled track chain with triple grouser shoes.

Description	R360LC-7A
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 track 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, hydraulic tank and the standard equipment.

Major component weight			
Upperstructure (2.0m cabin riser)		9,240kg	(20,370lb)
Counterweight		8,935kg	(19,700lb)
Two-piece front		5,030kg	(11,090lb)
Operating weight			
Shoes	Operating weight	Ground pressure	
Type	Width mm(in)	kg(lb)	kgf/cm²(psi)
Triple grouser	600 (24)	37,960 (83,690)	0.68 (9.67)
	700 (28)	38,360 (84,570)	0.59 (8.39)
	750 (30)	38,585 (85,060)	0.55 (7.82)
	800 (32)	38,810 (85,560)	0.52 (7.39)
	900 (36)	39,260 (86,550)	0.47 (6.68)
Double grouser	600 (24)	38,230 (84,280)	0.68 (9.67)
	700 (28)	38,730 (85,380)	0.59 (8.39)

Specifications _ Robex 450LC-7 / 7A



ENGINE

Model		R450LC-7	R450LC-7A	
		Cummins QSM11-C	Cummins QSM11	
Type		Watercooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbocharged, Charger air cooled, Low emission		
Rated flywheel horse power				
SAE	J1995 (gross)	HP(kW)/rpm	353 (263) / 1,900	357 (266) / 1,900
	J1349 (net)		320 (239) / 1,900	320 (239) / 1,900
DIN	627 1/1 (gross)	PS(kW)/rpm	358 (263) / 1,900	362 (266) / 1,900
	627 1/1 (net)		325 (239) / 1,900	325 (239) / 1,900
Max. torque	kgf.m(lbf.ft)/rpm	182.5 (1,320) / 1,300	170.6 (1,234) / 1,400	
Bore X stroke	mm (in)	125 (4.92) X 147(5.79)	125 (4.92) X 147(5.79)	
Piston displacement	cc (in ³)	10,800 (659)	10,800 (659)	
Batteries		2 X 12V X 200AH	2 X 12V X 200AH	
Starting motor		24V, 7.2kw	24V, 7.2kw	
Alternator		24V, 50A	24V, 50A	



HYDRAULIC SYSTEM

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2X380 l/min (100.4 US gpm / 83.6 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	330 kgf/cm² (4,690 psi)
Travel	345 kgf/cm² (4,910 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	285 kgf/cm² (3,770 psi)
Pilot circuit	35 kgf/cm² (500 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x stroke	Boom : 2-170 X 1,570 mm (6.7" X 61.8")
	Arm : 1-180 X 1,820 mm (7.1"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	37,200 kgf (82,000 lbf)
Max. travel speed(high) / (low)	5.3 km/hr (3.3 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 bucket(ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
External Lights	Two lights mounted on the boom one under the battery box



SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	10.3 rpm 9.0 rpm



COOLANT & LUBRICANT CAPACITY

(Refilling)	liter	US gal	UK gal
Fuel tank	610	161.2	134.2
Engine coolant	50.0	13.2	11.0
Engine oil	37.9	10.0	8.3
Swing device(each)	5.0	1.3	1.1
Final drive(each)	5.0	1.3	1.1
Hydraulic system(including tank)	380	100.4	83.6
Hydraulic tank	250	66.1	55.0



UNDERCARRIAGE

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 spring and sprocket, assembled track chain with triple grouser shoes.

Description	R450LC-7 / 7A
Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	53
No. of carrier roller on each side	2
No. of track roller on each side	9
No. of track guard 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, hydraulic tank and the standard equipment.

Major component weight			
Upperstructure (2.0m cabin riser)		11,010kg	(24,270lb)
Counterweight		12,700kg	(28,000lb)
Two-piece front		6,240kg	(13,760lb)
Operating weight			
Shoes	Operating weight	Ground pressure	
Type	Width mm(in)	kg(lb)	kgf/cm²(psi)
Triple grouser	600 (24)	48,200 (106,260)	0.83 (11.80)
	700 (28)	48,700 (107,360)	0.72 (10.24)
	750 (30)	49,000 (108,030)	0.68 (9.67)
	800 (32)	49,300 (108,690)	0.64 (9.10)
	900 (36)	49,800 (109,790)	0.57 (8.11)
Double grouser	600 (24)	48,200 (106,260)	0.83 (11.80)
	700 (28)	48,700 (107,360)	0.72 (10.24)

Specifications _ Robex 500LC-7 / 7A



ENGINE

Model		R500LC-7	R500LC-7A	
		Cummins QSM11-C	Cummins QSM11	
Type	Watercooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbocharged, Charger air cooled, Low emission			
Rated flywheel horse power				
SAE	J1995 (gross)	HP(kW)/rpm	353 (263) / 1,900	357 (266) / 1,900
	J1349 (net)		320 (239) / 1,900	320 (239) / 1,900
DIN	627 1/1 (gross)	PS(kW)/rpm	358 (263) / 1,900	362 (266) / 1,900
	627 1/1 (net)		325 (239) / 1,900	325 (239) / 1,900
Max. torque	kgf.m(lbf.ft)/rpm		182.5 (1,320) / 1,300	170.6 (1,234) / 1,400
Bore X stroke	mm (in)		125 (4.92) X 147(5.79)	125 (4.92) X 147(5.79)
Piston displacement	cc (in³)		10,800 (659)	10,800 (659)
Batteries			2 X 12V X 200AH	2 X 12V X 200AH
Starting motor			24V, 7.2kw	24V, 7.2kw
Alternator			24V, 50A	24V, 50A



HYDRAULIC SYSTEM

Main pump	
Type	Two variable displacement piston pumps
Max. flow	2X380 l/min (100.4 US gpm / 83.6 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	330 kgf/cm² (4,690 psi)
Travel	345 kgf/cm² (4,910 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	285 kgf/cm² (3,770 psi)
Pilot circuit	35 kgf/cm² (500 psi)
Service valve	Installed
Hydraulic cylinders	
No. of cylinder-bore x stroke	Boom : 2-170 X 1,570 mm (6.7" X 61.8") Arm : 1-180 X 1,820 mm (7.1" 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 (82,000 lbf)
Max. travel speed(high) / (low)	5.2 km/hr (3.3 mph) / 3.3 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 bucket(ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
External Lights	Two lights mounted on the boom one under the battery box

Specifications _ Robex 800LC-7A



ENGINE

Model			Cummins QSX15
Type	Watercooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, Turbocharged, Charger air cooled, Low emission		
Rated flywheel horse power			
SAE	J1995 (gross)	HP(kW)/rpm	510 (380) / 1,800
	J1349 (net)		490 (366) / 1,800
DIN	627 1/1 (gross)	PS(kW)/rpm	517 (380) / 1,800
	627 1/1 (net)		497 (366) / 1,800
Max. torque	kgf.m(lbf.ft)/rpm		241.1 (1,744) / 1,400
Bore X stroke	mm (in)		137 (5.39) X 169(6.65)
Piston displacement	cc (in³)		15,000 (915)
Batteries	4 X 12V X 200AH		
Starting motor	24V, 9.0kw		
Alternator	24V, 100Amp		



HYDRAULIC SYSTEM

Main pump	
Type	Variable displacement tandem axis piston pumps
Max. flow	2X540 l/min (133.1 US gpm / 110.9 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system	
Hydraulic motors	
Travel	Two speed axial piston 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	350 kgf/cm² (4,980 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	260 kgf/cm² (3,700 psi)
Pilot circuit	40 kgf/cm² (569 psi)
Service valve	Installed
Hydraulic cylinders	
Boom : 2-200 X 1,892 mm (7.9" X 74.5")	
Arm : 1-215 X 2,250 mm (8.5" X 88.6")	
No. of cylinder-bore x stroke	Bucket(A) : 1-200 X 1,593 mm (7.9" X 62.7")
	Bucket(B) : 1-215 X 1,593 mm (8.5" X 62.7")



DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	59,300 kgf (130,730 lbf)
Max. travel speed(high) / (low)	4 km/hr (2.5 mph) / 32.6 km/hr (1.6 mph)
Gradeability	35°(70 %)
Parking brake	Multi wet disc



CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.	
Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket(ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
External Lights	Two lights mounted on the boom one under the battery box



SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	6.3 rpm



COOLANT & LUBRICANT CAPACITY

(Refilling)	liter	US gal	UK gal
Fuel tank	940	248	206
Engine coolant	59	15.6	13
Engine oil	43.5	11.5	9.5
Swing device(each)	6.0	1.6	1.3
Final drive(each)	25	6.6	5.5
Hydraulic system(including tank)	800	211	175.6
Hydraulic tank	450	119	99



UNDERCARRIAGE

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

Description	R800LC-7A
Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	51
No. of carrier roller on each side	3
No. of track roller on each side	9
No. of track guard on each side	2



OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 11,500mm (37' 9") boom, 7,600mm (24' 11") arm, SAE heaped 4.53 m³ (5.93 yd³) backhoe bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Major component weight	
Upperstructure (cabin tilting)	26,800kg (59,080lb)
Counterweight	14,500kg (31,970lb)
Three-Piece Front (without base boom)	8,200kg (18,080lb)

Operating weight		Operating weight	Ground pressure
Shoes	Width mm(in)	kg(lb)	kgf/cm²(psi)
Double grouser	700 (28")	85,820(189,200)	1.11(15.78)
	800 (32")	86,560(190,830)	0.98(13.94)
	900 (35")	87,290(192,440)	0.88(12.51)

Specifications _ Robex 140W-7 / 7A



ENGINE

Model		R140W-7	R140W-7A	
		Cummins B3.9-C	Mitsubishi D04FD-TAA	
Type	Water cooled, 4 cycle diesel, 4-cylinders in line direct injection, turbocharged, charge air cooled low emission			
Rated flywheel horse power				
SAE	J1995 (gross)	HP(kW)/rpm	113 (84) / 2,100	119 (89) / 2,000
	J1349 (net)		105 (78) / 2,100	105 (78) / 2,000
DIN	627 1/1 (gross)	PS(kW)/rpm	115 (84) / 2,100	121 (89) / 2,000
	627 1/1 (net)		106 (78) / 2,100	106 (78) / 2,000
Max. torque	kgf.m(lbf.ft)/rpm	45.6 (330) / 1,500	45.4 (328) / 1,700	
Bore X stroke	mm (in)	102 (4.02) X 120 (4.72)	102 (4.01) X 130 (5.12)	
Piston displacement	cc (in³)	3,900 (238)	4,249 (259.3)	
Batteries	2 X 12V X 100AH			
Starting motor	24V, 4.5kw			
Alternator	24V, 50A			



HYDRAULIC SYSTEM

Main pump	
Type	Two variable displacement piston pumps
Max. 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	Two speed axial piston 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	240 kgf/cm² (3,410 psi)
Pilot circuit	40 kgf/cm² (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 : 1-125 X 1,450 mm (4.9" X 57.1")



DRIVES & BRAKES

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

Max. drawbar pull	8500 kgf (18740 lbf)
Travel speed	1st foward / reverse 8.0/ 5.0 km/hr (5.0/ 3.1 mph)
	2nd foward / reverse 31 / 18.7 km/hr (19.2 / 11.6 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
External Lights	Two lights mounted on the boom, one under the battery box and one under the cabin



AXLE & WHEEL

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

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



SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake(option)	Multi wet disc(pin lock type)
Swing speed	14.5 rpm 12.4 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")



COOLANT & LUBRICANT CAPACITY

(Refilling)	liter	US gal	UK gal
Fuel tank	270.0	71.3	59.4
Engine coolant	24.0	6.3	5.3
Engine oil	15.3 / *17.5	4.0 / *4.6	3.4 / *3.8
Swing device(each)	2.5	0.7	0.55
Axle	(Front)	10.2	2.7
	(Rear)	10.8	2.9
Hydraulic system(including tank)	210.0	55.5	46.2
Hydraulic tank	124.0	32.8	27.3

* R140W-7A



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 5,400mm (17' 9") boom, 3,700mm (12' 2") arm, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Major component weight	
Upperstructure (2.0m cabin riser)	6,040kg (13,320lb)
Counterweight	2,900kg (6,390lb)
Two-piece front	1,900kg (4,190lb)

Operating weight	15,410kg (33,970lb)
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Specifications _ Robex 200W-7 / 7A



ENGINE

Model		R200W-7	R200W-7A	
		Cummins B5.9-C	Cummins QSB6.7	
Type		Water cooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, turbocharged, charge air cooled and low emission		
Rated flywheel horse power				
SAE	J1995 (gross)	HP(kW)/rpm	166 (124) / 1,950	164 (122) / 1,900
	J1349 (net)		153 (114) / 1,950	153 (114) / 1,900
DIN	627 1/1 (gross)	PS(kW)/rpm	168 (124) / 1,950	166 (122) / 1,900
	627 1/1 (net)		155 (114) / 1,950	155 (114) / 1,900
Max. torque	kgf.m(lbf.ft)/rpm	68.4 (495) / 1,500	66.9 (484) / 1,400	
Bore X stroke	mm (in)	102 (4.0) X 120 (4.7)	107 (4.2) X 124 (4.9)	
Piston displacement	cc (in³)	5,880 (359)	6,700 (409)	
Batteries		2 X 12V X 100AH		
Starting motor		24 V, 4.5 kW	24 V, 4.5 kW	
Alternator		24V, 50A	24V, 50A	



HYDRAULIC SYSTEM

Main pump	
Type	Two variable displacement piston pumps
Max. flow	R200W-7 2 X 220 l/min (58.1 US gpm / 48.4 UK gpm)
	R200W-7A 2 X 222 l/min (58.6 US gpm / 48.8 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	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	240 kgf/cm² (3,410 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 1,705 mm (5.5" X 67.1")



DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, bent axis design
Max. drawbar pull	10,800 kgf (23,800 lbf)
Max. travel speed(high) / (low)	33 km/hr (20.5 mph) / 8.5 km/hr (5.3 mph)
Gradeability	31.5° (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 bucket(ISO)
Engine throttle	Electric, Dial type
External Lights	Two lights mounted on the boom, one under the battery box and one under the cabin



AXLE & WHEEL

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

Rear axle is fixed on the lower chassis
Tires : 10.00-20-14PR, Dual (tube type), Option : 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	12.5 rpm 11 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")



COOLANT & LUBRICANT CAPACITY

(Refilling)	liter	US gal	UK gal
Fuel tank	310.0	81.9	68.2
Engine coolant	35.0	9.2	7.7
Engine oil	14.2 / * 24	3.8 / * 6.3	3.1 / * 5.3
Swing device(each)	5	1.3	1.1
Axle	(Front)	16.0	4.2
	(Rear)	16.0	4.2
Hydraulic system(including tank)	270.0	71.3	59.4
Hydraulic tank	180.0	47.6	39.6
Transmission	3.8	1.0	0.8

* R200W-7A



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

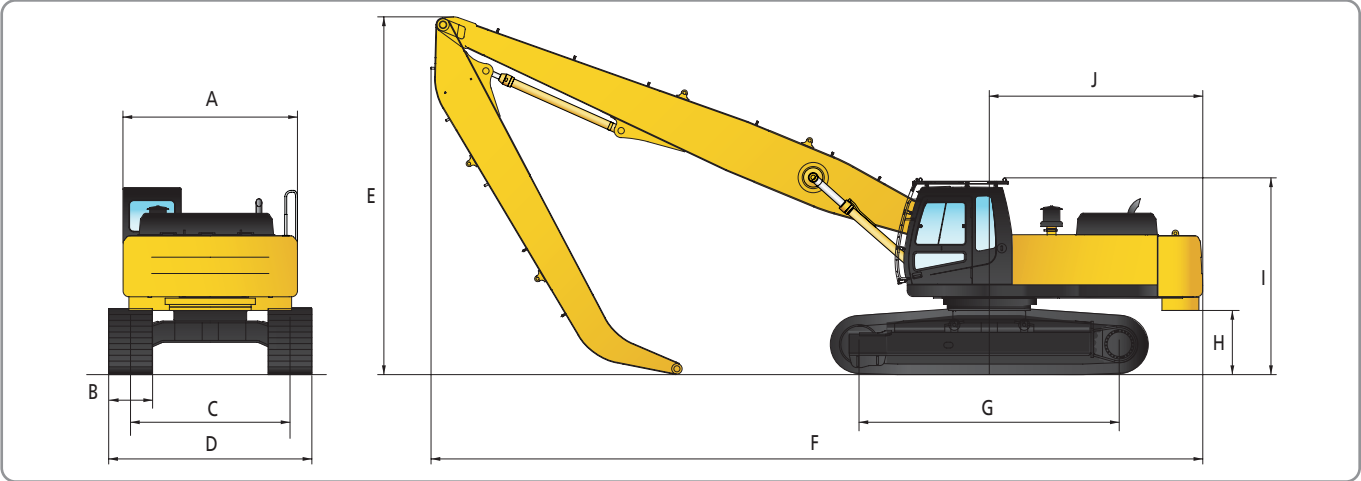
Major component weight	
Upperstructure (2.0m cabin riser)	6,730kg (14,840lb)
Counterweight	5,000kg (11,020lb)
Two-piece front	2,990kg (6,590lb)

Operating weight	22,540kg (49,690lb)
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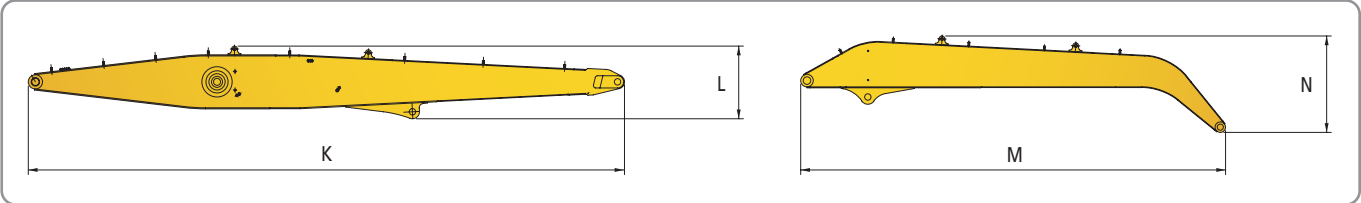
Dimensions & Working ranges



DIMENSIONS (CRAWLER / TWO PIECE)



Boom & Arm

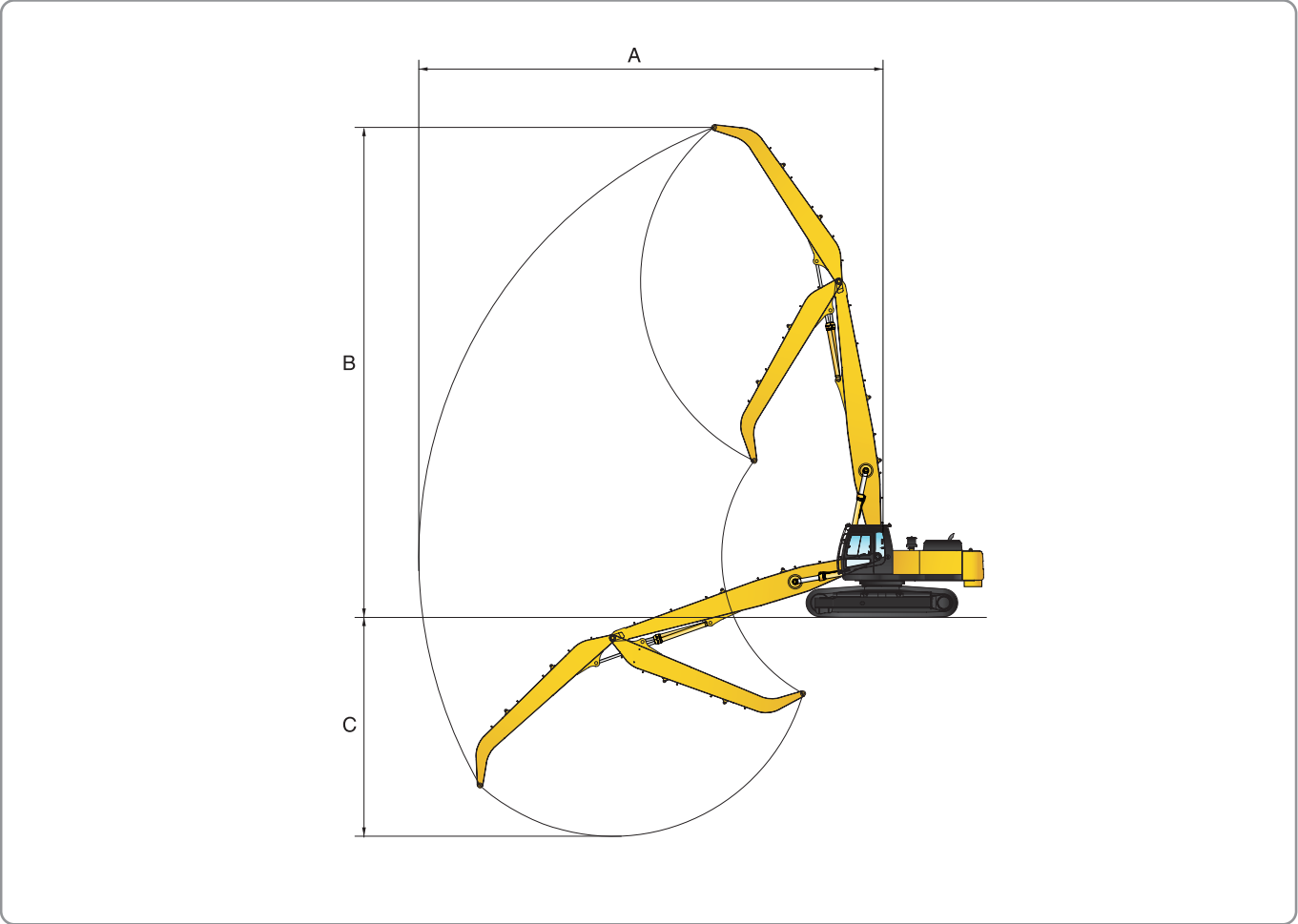


	R290LC-7A	R320LC-7 / R320LC-7A	R360LC-7A	R450LC-7 / R450LC-7A	R500LC-7 / R500LC-7A	R800LC-7A
A	2,980 (9'9")	2,980 (9'9")	2,980 (9'9")	2,980 (9'9")	2,980 (9'9")	3,420 (11'3")
B	600 (24")	600 (24")	600 (24")	600 (24")	600 (24")	700 (28")
C	2,600 (8'6")	2,680 (8'10")	2,740 (9'0")	2,740 (9'0")	2,940 Extended (9'8") 2,380 Retracted (7'10")	3,590 Extended (11'9") 2,780 Retracted (9'1")
D	3,200 (10'6")	3,280 (10'9")	3,340 (10'11")	3,490 (11'5")	3,540 Extended (11'7") 2,990 Retracted (9'9")	4,290 Extended (14'1") 3,480 Retracted (11'5")
E	3,920 (12'10")	4,960 (16'3")	4,810 (15'9")	6,140 (20'2")	6,390 (20'12")	6,410 (21'0")
F	10,990 (36'1")	10,880 (35'8")	11,890 (39'0")	13,250 (43'6")	13,280 (43'7")	15,405 (50'6")
G	4,030 (13'3")	4,030 (13'3")	4,340 (14'3")	4,470 (14'8")	4,470 (14'8")	5,030 (16'6")
H	990 (3'3")	990 (3'3")	1,060 (3'6")	1,100 (3'7")	1,260 (4'2")	1,570 (5'2")
I	3,230 (10'7")	3,260 (10'8")	3,330 (10'11")	3,380 (11'1")	3,520 (11'7")	3,580 (11'9")
J	3,120 (10'3")	3,265 (10'9")	3,350 (10'12")	3,665 (12'0")	3,665 (12'0")	4,315 (14'2")
Boom	K	8,030 (26'4")	8,030 (26'4")	8,830 (28'12")	10,240 (33'7")	10,240 (33'7")
	L	1,070 (3'6")	1,070 (3'6")	1,080 (3'7")	1,250 (4'1")	1,250 (4'1")
	Width	700 (2'4")	700 (2'4")	900 (2'11")	1,000 (3'3")	1,000 (3'3")
Arm	M	5,580 (18'4")	6,230 (20'5")	6,230 (20'5")	7,300 (23'11")	7,300 (23'11")
	N	1,620 (5'4")	1,600 (5'3")	1,630 (5'4")	1,660 (5'5")	1,660 (5'5")
	Width	400 (1'4")	400 (1'4")	400 (1'4")	500 (1'8")	500 (1'8")

mm(ft · in)



WORKING RANGES (CRAWLER / TWO PIECE)



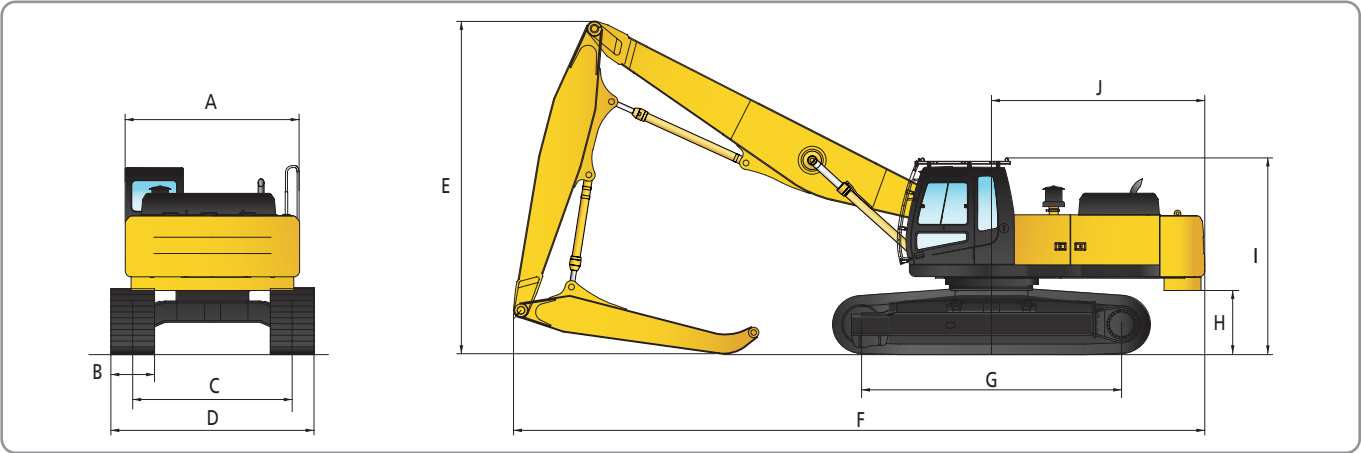
	R290LC-7A	R320LC-7 / R320LC-7A	R360LC-7A	R450LC-7 / R450LC-7A	R500LC-7 / R500LC-7A	R800LC-7A
Boom Length	7,800 (25'7")	7,800 (25'7")	8,600 (28'3")	10,000 (32'10")	10,000 (32'10")	11,500 (37'9")
Arm Length	5,400 (17'9")	6,050 (19'10")	6,050 (19'10")	7,100 (23'4")	7,100 (23'4")	7,600 (24'11")
A (Maximum Reach)	13,020 (42'9")	13,680 (44'11")	14,360 (47'1")	16,720 (54'10")	16,700 (54'9")	19,077 (62'7")
B (Maximum Height)	14,340 (47'1")	15,030 (49'4")	15,810 (51'10")	17,600 (57'9")	17,650 (57'11")	20,871 (68'6")
C (Maximum Depth)	6,410 (21'0")	6,420 (21'1")	6,730 (22'1")	7,940 (26'1")	7,740 (25'5")	7,590 (24'11")

mm(ft · in)

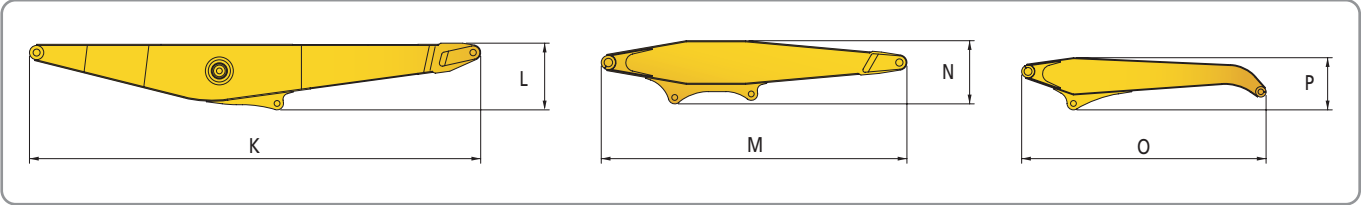
Dimensions & Working ranges



DIMENSIONS (CRAWLER / THREE PIECE)



Boom & Middle Arm & End Arm

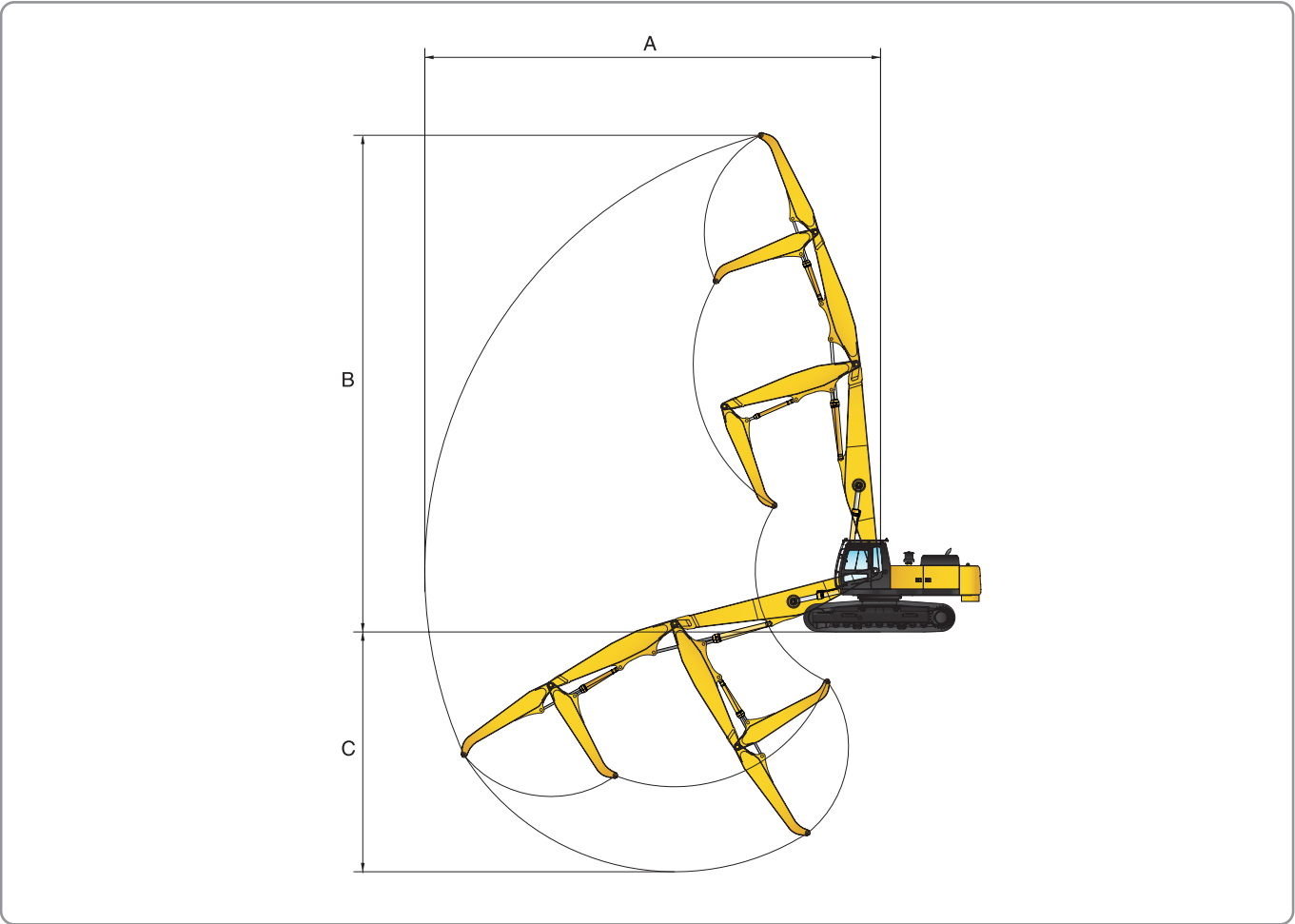


	R290LC-7A	R320LC-7 / R320LC-7A	R360LC-7A	R450LC-7 / R450LC-7A	R500LC-7 / R500LC-7A	R800LC-7A
A	2,980 (9'9")	2,980 (9'9")	2,980 (9'9")	2,980 (9'9")	2,980 (9'9")	3,420 (11'3")
B	600 (24")	600 (24")	600 (24")	600 (24")	600 (24")	700 (28")
C	2,600 (8'6")	2,680 (8'10")	2,740 (9'0")	2,740 (9'0")	2,940 Extended (9'8") 2,380 Retracted (7'10")	3,590 Extended (11'9") 2,780 Retracted (9'1")
D	3,200 (10'6")	3,280 (10'9")	3,340 (10'11")	3,490 (11'5")	3,540 Extended (11'7") 2,990 Retracted (9'9")	4,290 Extended (14'1") 3,480 Retracted (11'5")
E	4,460 (14'8")	4,440 (14'7")	4,540 (14'11")	5,710 (18'9")	5,960 (19'7")	7,250 (23'9")
F	9,770 (32'1")	9,950 (32'8")	10,540 (34'7")	11,880 (38'12")	11,910 (39'1")	14,760 (48'5")
G	4,030 (32'1")	4,030 (32'1")	4,340 (14'3")	4,470 (14'8")	4,470 (14'8")	5,030 (16'6")
H	990 (3'3")	990 (3'3")	1,060 (3'6")	1,100 (3'7")	1,260 (4'2")	1,570 (5'2")
I	3,230 (10'7")	3,260 (10'8")	3,330 (10'11")	3,380 (11'1")	3,520 (11'7")	3,830 (12'7")
J	3,120 (10'9")	3,265 (10'9")	3,350 (11'0")	3,665 (12'0")	3,665 (12'0")	4,200 (13'9")
Boom	K	6,530 (21'5")	6,530 (21'5")	6,830 (22'5")	7,750 (25'5")	9,900 (32'6")
	L	940 (3'1")	940 (3'1")	960 (3'2")	1,150 (3'9")	1,140 (3'9")
	Width	600 (1'12")	800 (2'7")	900 (2'11")	900 (2'11")	1,340 (4'5")
Middle Arm	M	4,200 (13'9")	4,200 (13'9")	4,510 (14'10")	5,250 (17'3")	6,390 (20'12")
	N	900 (2'11")	900 (2'11")	930 (3'1")	1,090 (3'7")	1,130 (3'8")
	Width	500 (1'8")	500 (1'8")	600 (1'12")	600 (1'12")	800 (2'7")
End Arm	O	3,160 (10'4")	3,160 (10'4")	3,470 (11'5")	4,200 (13'9")	4,800 (15'9")
	P	770 (2'6")	770 (2'6")	790 (2'7")	900 (2'11")	1,000 (3'3")
	Width	400 (1'4")	400 (1'4")	400 (1'4")	400 (1'4")	600 (1'12")

mm(ft·in)



WORKING RANGES (CRAWLER / THREE PIECE)



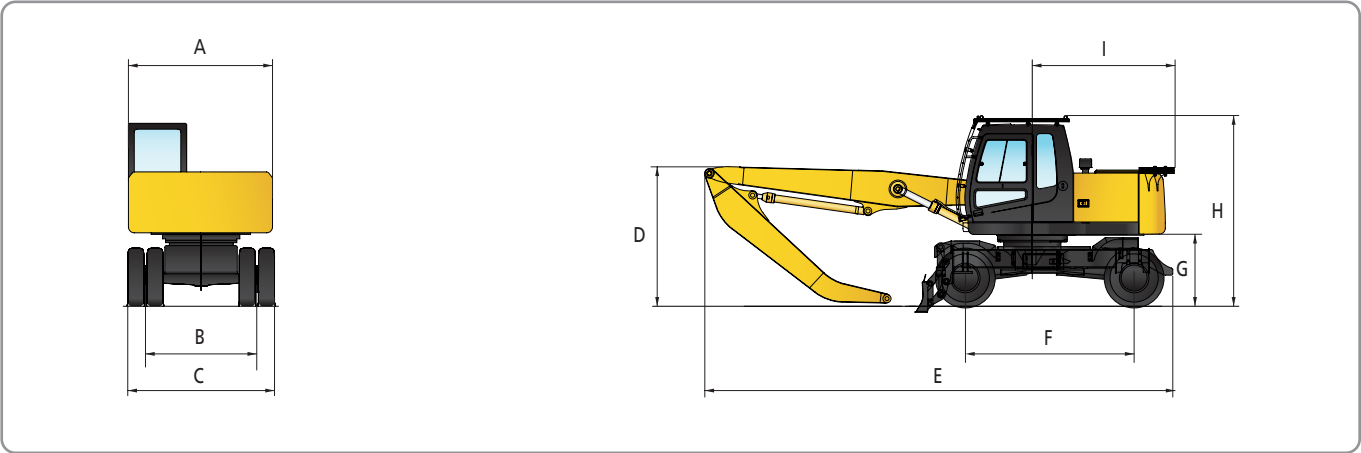
	R290LC-7A	R320LC-7 / R320LC-7A	R360LC-7A	R450LC-7 / R450LC-7A	R500LC-7 / R500LC-7A	R800LC-7A
Boom Length	6,300 (20'8")	6,300 (20'8")	8,600 (28'3")	7,500 (24'7")	7,500 (24'7")	9,500 (31'2")
Arm Length	4,000 (13'1")	4,000 (13'1")	4,300 (14'1")	5,000 (16'5")	5,000 (16'5")	6,000 (19'8")
End Arm	3,000 (9'10")	3,000 (9'10")	3,300 (10'10")	4,000 (13'1")	4,000 (13'1")	4,500 (14'9")
A (Maximum Reach)	13,260 (43'6")	13,260 (43'6")	14,140 (46'5")	16,460 (54'0")	16,440 (53'11")	19,930 (65'5")
B (Maximum Height)	14,670 (48'2")	14,670 (48'2")	15,520 (50'11")	17,890 (58'8")	17,940 (58'10")	21,980 (72'1")
C (Maximum Depth)	7,360 (24'2")	7,360 (24'2")	7,830 (25'8")	8,700 (28'7")	8,500 (27'11")	9,175 (30'1")

mm(ft·in)

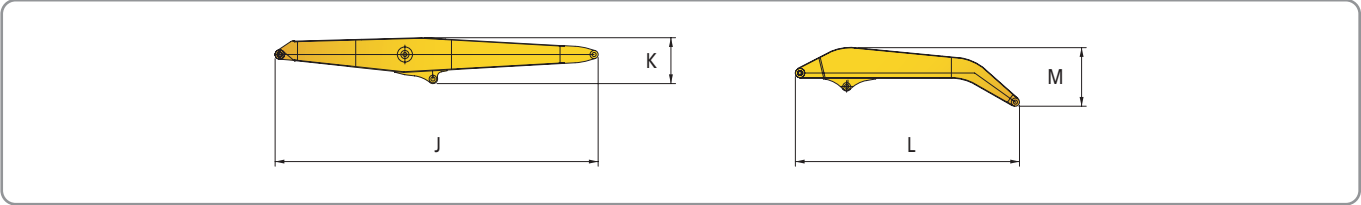
Dimensions & Working ranges



DIMENSIONS (WHEEL / TWO PIECE)



Boom & Arm

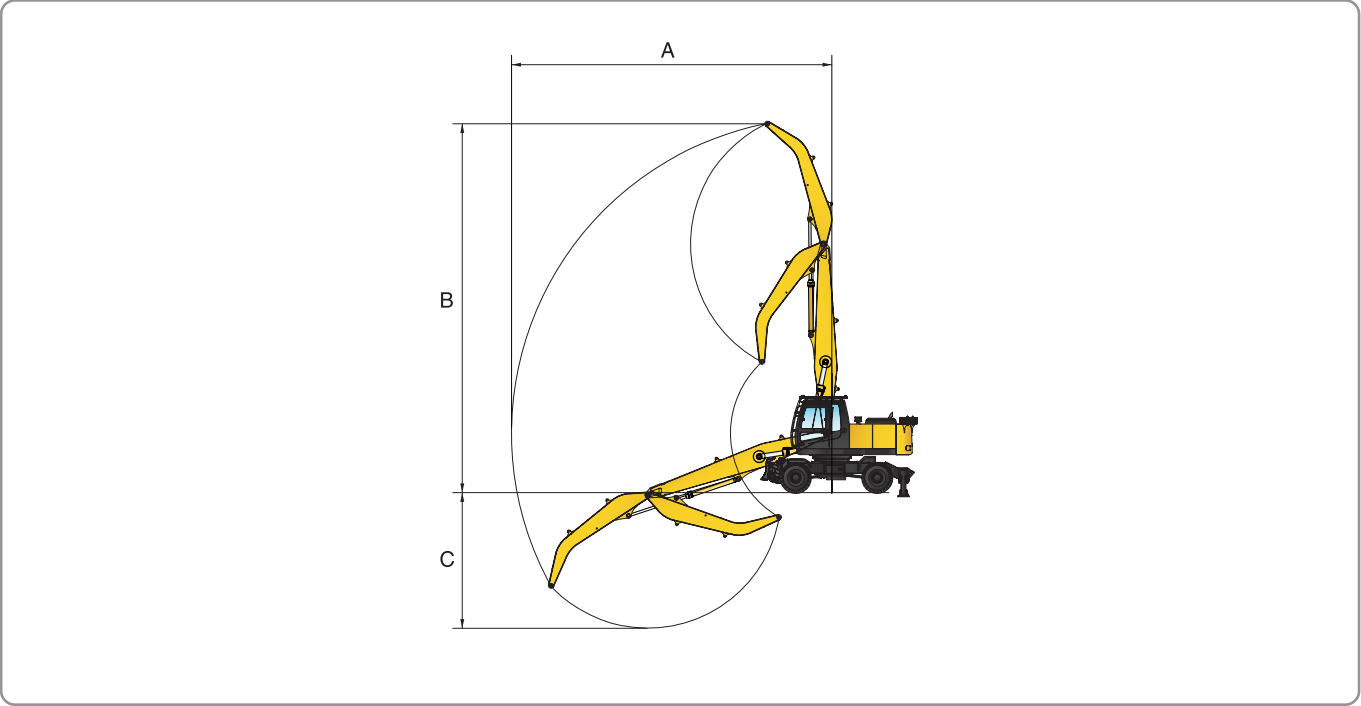


	R140W-7 / R140W-7A	R200W-7 / R200W-7A
A	2,475 (8'1")	2,530 (8'4")
B	1,929 (6'4")	1,874 (6'2")
C	2,500 (8'2")	2,490 (8'2")
D	2,400 (7'410")	3,010 (9'11")
E	8,040 (26'5")	9,650 (31'8")
F	2,600 (8'6")	2,800 (9'2")
G	1,240 (4'1")	1,305 (4'3")
H	3,280 (10'9")	3,340 (10'11")
I	2,560 (8'5")	2,930 (9'7")
Boom	J	5,550 (18'3")
	K	790 (2'47")
	Width	600 (1'12")
Arm	L	3,850 (12'8")
	M	1,010 (3'4")
	Width	400 (1'4")

mm(ft·in)



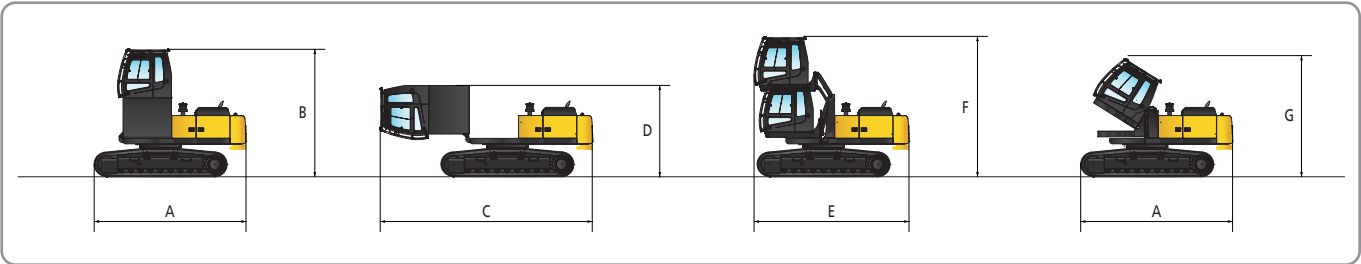
WORKING RANGES (WHEEL / TWO PIECE)



	R140W-7 / R140W-7A	R200W-7 / R200W-7A
Boom Length	5,400 (17'9")	6,500 (21'4")
Arm Length	3,700 (12'2")	4,500 (14'9")
A (Maximum Reach)	9,060 (29'9")	11,000 (36'1")
B (Maximum Height)	10,630 (34'11")	12,670 (41'7")
C (Maximum Depth)	3,740 (12'3")	4,650 (15'3")

mm(ft·in)

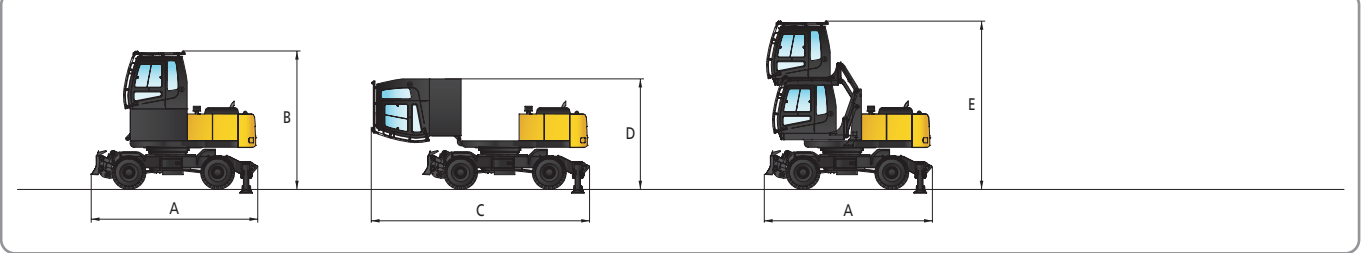
 RISER / ELEVATING / TILTING (CRAWLER / OPT)



	R290LC-7A	R320LC-7 / R320LC-7A	R360LC-7A	R450LC-7 / R450LC-7A	R500LC-7 / R500LC-7A	R800LC-7A
A	5,560 (18'3")	5,730 (18'10")	6,000 (19'8")	6,400 (20'12")	6,400 (20'12")	7,370 (24'2")
B	4,730 (15'6")	4,760 (15'7")	5,330 (17'6")	5,380 (17'8")	5,520 (18'1")	4,780 / 5,830 (15'8") / (19'2")
C	7,750 (25'5")	7,920 (25'12")	8,510 (27'11")	8,930 (29'4")	8,930 (29'4")	8,640 / 9,690 (28'4") / (31'9")
D	3,360 (11'0")	3,390 (11'1")	3,450 (11'4")	3,500 (11'6")	3,640 (11'11")	3,850 (12'8")
E	5,590 (18'4")	5,750 (18'10")	5,840 (19'2")	6,270 (20'7")	6,270 (20'7")	7,370 (24'2")
F	5,190 (17'0")	5,210 (17'1")	5,280 (17'4")	5,330 (17'6")	5,470 (17'11")	5,790 (18'12")
G	4,360 (14'4")	4,360 (14'4")	4,460 (14'8")	4,510 (14'10")	4,650 (15'3")	4,850 (15'11")
Cabin Riser	1,500 (4'11")	1,500 (4'11")	2,000 (6'7")	2,000 (6'7")	2,000 (6'7")	950 / 2,000 (3'1") / (6'7")
Cabin Elevating	2,000 (6'7")	2,000 (6'7")	2,000 (6'7")	2,000 (6'7")	2,000 (6'7")	2,000 (6'7")
Cabin Tilting	30°	30°	30°	30°	30°	30°

mm(ft · in)

 RISER / ELEVATING (WHEEL / OPT)



	R140W-7 / R140W-7A	R200W-7 / R200W-7A
A	4,530 (14'10")	5,280 (17'4")
B	4,280 (14'1")	4,340 (14'3")
C	6,370 (20'11")	6,880 (22'7")
D	3,400 (11'2")	3,460 (11'4")
E	5,230 (17'2")	5,300 (17'5")
Cabin Riser	1,000 (3'3")	1,000 (3'3")
Cabin Elevating	2,000 (6'7")	2,000 (6'7")

mm(ft · in)

Material Handler

Lifting Capacities

R290LC-7A_Material Handler_Two-Piece Front

Boom : 7.8 m (25'7") / Arm : 5.4 m (17'9") / Shoe : 600 mm (24") triple grouser / 1.5 m (4'11") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach		
	3m (9.8ft)		4.5m (14.8ft)		6m (19.7ft)		7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		12m (39.4ft)		Max.		Max.Reach
																	m(ft)
13.5m 44.3ft	kg lb														*3454 *7614	*3454 *7614	5.96 19.55
12m 39.4ft	kg lb					*4010 *8841	*4010 *8841	*3389 *7472	*3389 *7472						*2793 *6158	*2793 *6158	8.27 27.15
10.5m 34.4ft	kg lb							*3874 *8540	*3874 *8540	*3222 *7104	*3222 *7104				*2495 *5500	*2495 *5500	9.83 32.26
9m 29.5ft	kg lb							*4189 *9235	*4189 *9235	*3787 *8349	*3787 *8349	*2865 *6316	*2865 *6316		*2335 *5149	*2335 *5149	10.96 35.97
7.5m 24.6ft	kg lb					*4462 *9836	*4462 *9836	*4572 *10079	*4572 *10079	*4283 *9442	*4283 *9442	*3549 *7825	*3549 *7825		*2253 *4966	*2253 *4966	11.8 38.7
6m 19.7ft	kg lb					*5033 *11096	*5033 *11096	*5244 *11562	*5244 *11562	*4923 *10853	*4923 *10853	*4152 *9154	4148 9145	*2802 *6178	*2222 *4899	*2222 *4899	12.39 40.65
3m 9.8ft	kg lb			*12688 *27971	*12688 *27971	8874 20700	19564	*12688 *16681	8874 14186	*12688 *14103	8874 10877	*12688 *12262	8874 8634	*12688 *8561	*12688 *7013	*12688 *5036	12.98 42.59
0m 0ft	kg lb			*8102 *17862	*8102 *17862	*10488 *23122	7907 17433	*8216 *18114	5852 12902	*6727 *14831	4571 10076	*5648 *12453	3693 8141	*4451 *9812	3059 6745	*2521 *5557	12.86 42.18
-3m -9.8ft	kg lb	*7204 *15883	*7204 *15883	*11888 *26209	11641 25665	*9463 *20862	7634 16830	*7581 *16713	5626 12404	*6164 *13590	4415 9734	*4989 *10999	3608 7955		*3043 *6709	*3043 *6709	11.99 39.34
-4.5m -14.8ft	kg lb			*10036 *22126	*10036 *22126	*8165 *18001	7686 16946	*6633 *14622	*5341 12453	*5341 *11774	4438 9783	*4085 *9005	3653 8054		*3292 *7257	*3292 *7257	11.23 36.85

R290LC-7A_Material Handler_Two-Piece Front

Boom : 7.8 m (25'7") / Arm : 5.4 m (17'9") / Shoe : 800 mm (32") triple grouser / 1.5 m (4'11") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach		
	3m (9.8ft)		4.5m (14.8ft)		6m (19.7ft)		7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		12m (39.4ft)		Max.		Max.Reach
																	m(ft)
13.5m 44.3ft	kg lb														*3454 *7614	*3454 *7614	5.96 19.55
12m 39.4ft	kg lb					*4010 *8841	*4010 *8841	*3389 *7472	*3389 *7472						*2793 *6158	*2793 *6158	8.27 27.15
10.5m 34.4ft	kg lb							*3874 *8540	*3874 *8540	*3222 *7104	*3222 *7104				*2495 *5500	*2495 *5500	9.83 32.26
9m 29.5ft	kg lb							*4189 *9235	*4189 *9235	*3787 *8349	*3787 *8349	*2865 *6316	*2865 *6316		*2335 *5149	*2335 *5149	10.96 35.97
7.5m 24.6ft	kg lb					*4462 *9836	*4462 *9836	*4572 *10079	*4572 *10079	*4283 *9442	*4283 *9442	*3549 *7825	*3549 *7825		*2253 *4966	*2253 *4966	11.8 38.7
6m 19.7ft	kg lb					*5033 *11096	*5033 *11096	*5244 *11562	*5244 *11562	*4923 *10853	*4923 *10853	*4152 *9154	*4152 *9154	*2802 *6178	*2222 *4899	*2222 *4899	12.39 40.65
3m 9.8ft	kg lb			*12686 *27967	*12686 *27967	8874 20154	19564	*12686 *16679	8874 14631	*12686 *14100	8874 11233	*12686 *12259	8874 8931	*12686 *8561	*12686 *7013	*12686 *5036	12.98 42.59
0m 0ft	kg lb			*8102 *17862	*8102 *17862	*10486 *23117	8174 18021	*8215 *18110	6053 13345	*6726 *14828	4732 10432	*5647 *12450	3827 8438	*4451 *9812	3175 6999	*2521 *5557	12.86 42.18
-3m -9.8ft	kg lb	*7204 *15883	*7204 *15883	*11888 *26209	*11888 *26209	*9460 *20857	7900 17417	*7579 *16709	5827 12847	*6163 *13586	4576 10089	*4988 *10996	3743 8252		*3043 *6709	*3043 *6709	11.99 39.34
-4.5m -14.8ft	kg lb			*10033 *22119	*10033 *22119	*8163 *17996	7953 17533	*6631 *14618	5849 12896	*5339 *11770	4599 10139	*4083 *9002	3788 8351		*3290 *7254	*3290 *7254	11.23 36.85

R290LC-7A_Material Handler_Three-Piece Front

Boom : 6.3 m (20'8") / Middle Arm : 4 m (13'1") / End Arm : 3 m (9'10") / Shoe : 600 mm (24") triple grouser / 1.5 m (4'11") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach		
	1.5m (4.9ft)		4.5m (14.8ft)		6m (19.7ft)		7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		12m (39.4ft)		Max.		Max.Reach
																	m(ft)
13.5m 44.3ft	kg lb				*1314 *2898	*1314 *2898									*1489 *3284	*1489 *3284	6.48 21.26
12m 39.4ft	kg lb				*1076 *2372	*1076 *2372	*1363 *3005	*1363 *3005							*1607 *3544	*1607 *3544	8.65 28.38
10.5m 34.4ft	kg lb				*1164 *2567	*1164 *2567	*1355 *2987	*1355 *2987	*1503 *3314	*1503 *3314					*1672 *3685	*1672 *3685	10.15 33.3
9m 29.5ft	kg lb				*1179 *2600	*1179 *2600	*1534 *3382	*1534 *3382	*1355 *3455	*1355 *3455	*1630 *3593	*1630 *3593			*1712 *3774	*1712 *3774	11.25 36.9
7.5m 24.6ft	kg lb				*1286 *2834	*1286 *2834	*1620 *3571	*1620 *3571	*1734 *3824	*1734 *3824	*1691 *3728	*1691 *3728	*1735 *3826	*1735 *3826	*1744 *3846	*1744 *3846	12.06 39.57
6m 19.7ft	kg lb				*1555 *3429	*1555 *3429	*1792 *3951	*1792 *3951	*1911 *4214	*1911 *4214	*1819 *4011	*1819 *4011	*1756 *4011	*1756 *4011	*1772 *4011	*1772 *4011	12.64 41.47
3m 9.8ft	kg lb				*2871 *6330	*2871 *6330	*2347 *5559	*2347 *5559	*2235 *5175	*2235 *5175	*2096 *4622	*2096 *4622	*1905 *4200	*1905 *4200	*1821 *4014	*1821 *4014	13.22 43.36
0m 0ft	kg lb				*4353 *9597	*4353 *9597	*2876 *7484	*2876 *7484	*2551 *5623	*2551 *5623	*2265 *4994	*2265 *4994	*2101 *4434	*2101 *4434	*1866 *4115	*1866 *4115	13.09 42.95
-3m -9.8ft	kg lb	*8605 *18970	*8605 *18970	*4589 *10118	*4589 *10118	*3641 *8027	*3641 *8027	*3641 *8027	*3641 *8027	*3641 *8027	*3641 *8027	*3641 *8027	*3641 *8027	*3641 *8027	*3641 *8027	*3641 *8027	12.24 40.16
-4.5m -14.8ft	kg lb	*8218 *18118	*8218 *18118	*4477 *9870	*4477 *9870	*3552 *7831	*3552 *7831	*2960 *6526	*2960 *6526	*2527 *5571	*2527 *5571	*2182 *4811	*2182 *4811		*1954 *4307	*1954 *4307	11.5 37.72

R290LC-7A_Material Handler_Three-Piece Front

Boom : 6.3 m (20'8") / Middle Arm : 4 m (13'1") / End Arm : 3 m (9'10") / Shoe : 800 mm (32") triple grouser / 1.5 m (4'11") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach			
	1.5m (4.9ft)		4.5m (14.8ft)		6m (19.7ft)		7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		12m (39.4ft)		Max.		Max.Reach	
																	m(ft)	
13.5m 44.3ft	kg lb					*1314 *2898	*1314 *2898								*1489 *3284	*1489 *3284	6.48 21.26	
12m 39.4ft	kg lb					*1076 *2372	*1076 *2372	*1363 *3005	*1363 *3005						*1607 *3544	*1607 *3544	8.65 28.38	
10.5m 34.4ft	kg lb					*1164 *2567	*1164 *2567	*1355 *2987	*1355 *2987	*1503 *3314	*1503 *3314				*1672 *3685	*1672 *3685	10.15 33.3	
9m 29.5ft	kg lb					*1179 *2600	*1179 *2600	*1534 *3382	*1534 *3382	*1567 *3455	*1567 *3455	*1630 *3593	*1630 *3593		*1712 *3774	*1712 *3774	11.25 36.9	
7.5m 24.6ft	kg lb					*1286 *2834	*1286 *2834	*1620 *3571	*1620 *3571	*1734 *3824	*1734 *3824	*1691 *3728	*1691 *3728	*1735 *3826	*1735 *3826	*1744 *3846	*1744 *3846	12.06 39.57
6m 19.7ft	kg lb					*1555 *3429	*1555 *3429	*1792 *3951	*1792 *3951	*1911 *4214	*1911 *4214	*1819 *4011	*1819 *4011	*1756 *3872	*1756 *3872	*1772 *3906	*1772 *3906	12.64 41.47
3m 9.8ft	kg lb			*2871 *6330	*2871 *6330	*2521 *5559	*2521 *5559	*2347 *5175	*2347 *5175	*2235 *4927	*2235 *4927	*2096 *4622	*2096 *4622	*1905 *4200	*1905 *4200	*1821 *4014	*1821 *4014	13.22 43.36
0m 0ft	kg lb			*4353 *9597	*4353 *9597	*3395 *7484	*3395 *7484	*2876 *6340	*2876 *6340	*2551 *5623	*2551 *5623	*2265 *4994	*2265 *4994	*2011 *4434	*2011 *4434	*1866 *4115	*1866 *4115	13.09 42.95
-3m -9.8ft	kg lb	*8605 *18970	*8605 *18970	*4589 *10118	*4589 *10118	*3641 *8027	*3641 *8027	*3044 *6711	*3044 *6711	*2606 *5745	*2606 *5745	*2260 *4982	*2260 *4982	*1972 *4347	*1972 *4347	*1921 *4235	*1921 *4235	12.24 40.16
-4.5m -14.8ft	kg lb	*8218 *18118	*8218 *18118	*4477 *9870	*4477 *9870	*3552 *7831	*3552 *7831	*2960 *6526	*2960 *6526	*2527 *5571	*2527 *5571	*2182 *4811	*2182 *4811		*1954 *4307	*1954 *4307	11.5 37.72	

Material Handler

Lifting Capacities

R320LC-7/7A_Material Handler_Three-Piece Front

Boom : 6.3 m (20'8") / Middle Arm : 4 m (13'1") / End Arm : 3 m (9'10") / Shoe : 600 mm (24") triple grouser / 1.5 m (4'11") Cabin Riser

Load Point Height m(ft)	Load Radius												At Max. Reach									
	1.5m (4.9ft)		4.5m (14.8ft)		6m (19.7ft)		7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		12m (39.4ft)		Max.		Max.Reach					
																	m(ft)					
13.5m 44.3ft	kg lb					*2176 *4797	*2176 *4797									*2429 *5354	*2429 *5354	6.48 21.27				
12m 39.4ft	kg lb					*1963 *4328	*1963 *4328	*2612 *5758	*2612 *5758							*2973 *6555	*2973 *6555	8.65 28.37				
10.5m 34.4ft	kg lb					*2150 *4740	*2150 *4740	*2677 *5902	*2677 *5902	*3037 *6695	*3037 *6695					*3259 *7186	*3259 *7186	10.14 33.26				
9m 29.5ft	kg lb					*2280 *5027	*2280 *5027	*3019 *6657	*3019 *6657	*3202 *7059	*3202 *7059	*3361 *7411	*3361 *7411			*3444 *7592	3231 7124	11.23 36.84				
7.5m 24.6ft	kg lb					*2605 *5743	*2605 *5743	*3268 *7204	*3268 *7204	*3536 *7796	*3536 *7796	*3537 *7797	*3537 *7797	*3593 *7921	2691 5932	*3590 *7914	2666 5878	12.03 39.48				
6m 19.7ft	kg lb					*3198 *7050	*3198 *7050	*3655 *8058	*3655 *8058	*3906 *8611	*3906 *8611	*3804 *8387	3575 7881	*3719 *8200	2669 5884	*3711 *8181	2289 5046	12.61 41.37				
3m 9.8ft	kg lb					*5664 *12486	*5664 *12486	*5179 *11417	*5179 *11417	*4858 *10710	*4858 *10710	*4663 *10279	4232 9329	*4404 *9709	3402 7501	4031 8886	2430 5357	3392 7478	1865 4112	13.17 43.22		
0m 0ft	kg lb					*8772 *19338	*8772 *19338	*6975 *15378	*6975 *15378	*6724 *14825	*6724 *14825	*6000 *13229	*5192 *11447	*5367 *11833	3989 8794	4684 10326	2902 6399	3869 8530	2147 4733	3290 7253	1750 3858	13.04 42.77
-3m -9.8ft	kg lb	*7641 *16845	*7641 *16845	*9473 *20884	*9473 *20884	*7611 *16780	6718 14812	*6439 *14196	4708 10380	5589 12322	3428 7557	4631 10210	2575 5678	3710 8180	1997 4402	3634 8012	3654 4301	3951 4301	12.17 39.91			
-4.5m -14.8ft	kg lb	*7602 *16759	*7602 *16759	*9291 *20484	*9291 *20484	*7509 *16555	6502 14335	*6339 *13976	4524 9974	*5485 *12093	3322 7324	4601 10144	2547 5616			4060 8951	2224 4904	11.41 37.43				

R320LC-7/7A_Material Handler_Three-Piece Front

Boom : 6.3 m (20'8") / Middle Arm : 4 m (13'1") / End Arm : 3 m (9'10") / Shoe : 800 mm (32") triple grouser / 1.5 m (4'11") Cabin Riser

Load Point Height m(ft)	Load Radius												At Max. Reach					
	1.5m (4.9ft)		4.5m (14.8ft)		6m (19.7ft)		7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		12m (39.4ft)		Max.		Max.Reach	
																	m(ft)	
13.5m 44.3ft	kg lb				*2195 *4838	*2195 *4838										*2538 *5595	*2538 *5595	6.59 21.61
12m 39.4ft	kg lb				*1841 *4059	*1841 *4059	*2313 *5100	*2313 *5100								*2729 *6017	*2729 *6017	8.72 28.62
10.5m 34.4ft	kg lb				*1987 *4382	*1987 *4382	*2302 *5075	*2302 *5075	*2546 *5613	*2546 *5613						*2832 *6245	*2832 *6245	10.2 33.47
9m 29.5ft	kg lb				*2034 *4485	*2034 *4485	*2594 *5719	*2594 *5719	*2651 *5844	*2651 *5844	*2756 *6075	*2756 *6075				*2898 *6388	*2898 *6388	11.29 37.04
7.5m 24.6ft	kg lb				*2224 *4902	*2224 *4902	*2748 *6058	*2748 *6058	*2923 *6445	*2923 *6445	*2869 *6325	*2869 *6325	*2929 *6457	*2929 *6457		*2950 *6505	*2950 *6505	12.09 39.66
6m 19.7ft	kg lb				*2709 *5971	*2709 *5971	*3034 *6689	*3034 *6689	*3214 *7086	*3214 *7086	*3063 *6753	*3063 *6753	*2972 *6553	*2972 *6553		*2994 *6601	2849 6280	12.66 41.54
3m 9.8ft	kg lb			*4834 *10658	*4834 *10658	*4252 *9373	*4252 *9373	*3956 *8721	*3956 *8721	*3760 *8289	*3760 *8289	*3514 *7746	*3514 *7746	*3212 *7081	3088 6808	*3068 *6764	2545 5610	13.22 43.38
0m 0ft	kg lb			*7151 *15766	*7151 *15766	*5645 *12445	*5645 *12445	*4789 *10558	*4789 *10558	*4260 *9393	4228 9320	*3793 *8362	*3566 *7862	*3380 *7451	2965 6537	*3147 *6937	2537 5594	13.08 42.93
-1.5m -4.9ft	kg lb			*7506 *16548	*7506 *16548	*5947 *13111	*5947 *13111	*5012 *11049	*5012 *11049	*4376 *9646	4229 9323	*3820 *8422	3567 7863	*3385 *7463	2902 6397	*3186 *7023	2650 5843	12.75 41.82
-3m -9.8ft	kg lb	*7680 *16930	*7680 *16930	*7506 *16549	*7506 *16549	*6001 *13230	*6001 *13230	*5047 *11127	*5047 *11127	*4340 *9567	4229 9323	*3777 *8328	3532 7787	*3308 *7293	2917 6431	*3231 *7124	2860 6305	12.22 40.08

R360LC-7A_Material Handler_Two-Piece Front

Boom : 8.6 m (28'3") / Arm : 6 m (19'10") / Shoe : 600 mm (24") triple grouser / 2m (6'7") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach			
	3m (9.8ft)		6m (19.7ft)		7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		12m (39.4ft)		13.5m (44.3ft)		Max.		Max.Reach	
																	m(ft)	
15m 49.2ft	kg lb			*3304 *7284	*3304 *7284											*3175 *7000	*3175 *7000	6.24 20.46
13.5m 44.3ft	kg lb					*3166 *6979	*3166 *6979									*2559 *5641	*2559 *5641	8.73 28.63
12m 39.4ft	kg lb					*3414 *7527	*3414 *7527	*3037 *6696	*3037 *6696							*2274 *5014	*2274 *5014	10.42 34.18
10.5m 34.4ft	kg lb					*3551 *7829	*3551 *7829	*3355 *7398	*3355 *7398	*2882 *6355	*2882 *6355					*2117 *4667	*2117 *4667	11.68 38.31
9m 29.5ft	kg lb					*3706 *8170	*3706 *8170	*3638 *8021	*3638 *8021	*3297 *7268	*3297 *7268	*2570 *5666	*2570 *5666			*2028 *4472	*2028 *4472	12.63 41.43
6m 19.7ft	kg lb			*4167 *9187	*4167 *9187	*4634 *10216	*4634 *10216	*4241 *10194	*4241 *10194	*3538 *9350	*3538 *9350	*3538 *7801	*3538 *7801	*2396 *5282	*2396 *5282	*1978 *4361	*1978 *4361	13.85 45.45
3m 9.8ft	kg lb			*13079 *28833	11116 24506	*10461 *23062	8105 17869	*7839 *17281	6250 13778	*6136 *13528	4991 11003	*4688 *10336	4081 8996	*3179 *7009	*3179 *7009	*2055 *4530	*2055 *4530	14.36 47.1
0m 0ft	kg lb			*14651 *32300	9867 21752	*11484 *25318	7328 16155	9288 20477	5747 12671	7473 16475	4662 10278	*6082 *13409	3871 8534	*3526 *7773	3275 7221	*2269 *5002	*2269 *5002	14.22 46.64
-3m -9.8ft	kg lb	*4904 *10812	*4904 *10812	*13506 *29775	9512 20970	*10894 *24017	7013 15461	*8978 *19792	5509 12145	7297 16088	4500 9921	6100 13448	3781 8336			*2702 *5957	*2702 *5957	13.41 43.99
-4.5m -14.8ft	kg lb			*12048 *26562	9553 21060	*9898 *21821	7013 15460	*8191 *18057	5502 12130	*6758 *14899	4505 9931	*5246 *11565	3813 8405			*3072 *6773	*3072 *6773	12.72 41.72

R360LC-7A_Material Handler_Two-Piece Front

Boom : 8.6 m (28'3") / Arm : 6 m (19'10") / Shoe : 800 mm (32") triple grouser / 2m (6'7") Cabin Riser

Load Point Height m(ft)	Load Radius												At Max. Reach					
	3m (9.8ft)		6m (19.7ft)		7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		12m (39.4ft)		13.5m (44.3ft)		Max.		Max.Reach	
																	m(ft)	
15m 49.2ft	kg lb			*3304 *7284	*3304 *7284											*3175 *7000	*3175 *7000	6.24 20.46
13.5m 44.3ft	kg lb					*3166 *6979	*3166 *6979									*2559 *5641	*2559 *5641	8.73 28.63
12m 39.4ft	kg lb					*3414 *7527	*3414 *7527	*3037 *6696	*3037 *6696							*2274 *5014	*2274 *5014	10.42 34.18
10.5m 34.4ft	kg lb					*3551 *7829	*3551 *7829	*3355 *7398	*3355 *7398	*2882 *6355	*2882 *6355					*2117 *4667	*2117 *4667	11.68 38.31
9m 29.5ft	kg lb					*3706 *8170	*3706 *8170	*3638 *8021	*3638 *8021	*3297 *7268	*3297 *7268	*2570 *5666	*2570 *5666			*2028 *4472	*2028 *4472	12.63 41.43
6m 19.7ft	kg lb		*4167 *9187	*4167 *9187	*4634 *10216	*4634 *10216	*4624 *10194	*4624 *10194	*4241 *9350	*4241 *9350	*3538 *7801	*3538 *7801	*2396 *5282	*2396 *5282	*1978 *4361	*1978 *4361	13.85 45.45	
3m 9.8ft	kg lb	*4904 *10812	*4904 *10812	*13079 *28833	11324 24964	*10461 *23062	8261 18213	*7839 *17281	6375 14054	*6136 *13528	5095 11233	*4688 *10336	4170 9193	*3179 *7009	*2055 *4530	*2055 *4530	14.36 47.1	
0m 0ft	kg lb			*14651 *32300	10075 22211	*11484 *25318	7484 16500	*9426 *20780	5872 12947	7637 16836	4766 10508	*6082 *13409	3960 8731	*3526 *7773	3354 7393	*2269 *5002	*2269 *5002	14.22 46.64
-3m -9.8ft	kg lb			*13506 *29775	9720 21429	*10894 *24017	7169 15806	*8978 *19792	5634 12421	7461 16449	4604 10151	*6227 *13729	3871 8534			*2702 *5957	*2702 *5957	13.41 43.99
-4.5m -14.8ft	kg lb			*12048 *26562	9761 21519	*9898 *21821	7169 15805	*8191 *18057	5627 12406	*6758 *14899	4609 10161	*5246 *11565	3902 8603			*3072 *6773	*3072 *6773	12.72 41.72

Material Handler

Lifting Capacities

R450LC-7/7A_Material Handler_Two-Piece Front

Boom : 10 m (32'10") / Arm : 7.1 m (23'4") / Shoe : 600 mm (24") triple grouser / 2m (6'7") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach			
	3m (9.8ft)		6m (19.7ft)		9m (29.5ft)		12m (39.4ft)		13.5m (44.3ft)		15m (49.2ft)		16.5m (54.1ft)		Max.		Max.Reach	
																	m(ft)	
16.5m kg																*4319	*4319	8.44
54.1ft lb																*9522	*9522	27.69
15m kg					*4727	*4727										*3738	*3738	10.61
49.2ft lb					*10420	*10420										*8242	*8242	34.8
12m kg					*5260	*5260	*4381	*4381								*3226	*3226	13.46
39.4ft lb					*11596	*11596	*9659	*9659								*7113	*7113	44.16
9m kg					*5794	*5794	*5378	*5378	*4649	*4649	*3336	*3336				*3043	*3043	15.21
29.5ft lb					*12774	*12774	*11857	*11857	*10249	*10249	*7354	*7354				*6708	*6708	49.92
6m kg			*6037	*6037	*7477	*7477	*6744	5852	*5854	4834	*4606	4037				*3027	*3027	16.24
19.7ft lb			*13309	*13309	*16483	*16483	*14869	12902	*12907	10657	*10155	8901				*6673	*6673	53.27
3m kg			*16706	14452	*10949	8260	*8196	5466	*7247	4574	*5683	3873	*3460	3309		*3144	*3144	16.66
9.8ft lb			*36831	*31862	*24138	18210	*18069	12050	*15978	10083	*12530	8539	*7627	7296		*6932	*6932	54.66
0m kg			*11588	*11588	*11294	7523	*8189	5112	*7095	4331	*6111	3718	*3492	3236		*3410	3226	16.53
0ft lb			*25548	*25548	*24900	16585	*18055	11269	*15641	9548	*13472	8197	*7699	7133		*7518	7113	54.24
-3m kg	*4391	*4391	*13196	12272	*10399	7141	*7480	4902	*6321	4193	*5149	3648				*3895	3409	15.84
-9.8ft lb	*9681	*9681	*29093	27054	*22927	15744	*16491	10807	*13936	9243	*11352	8043				*8587	7517	51.98
-4.5m kg			*13023	12285	*9412	7085	*6738	4870	*5553	4183	*4178	3675				*3851	3605	15.26
-14.8ft lb			*28710	27083	*20750	15620	*14854	10737	*12242	9222	*9210	8101				*8489	7947	50.08
-6m kg			*10607	*10607	*8028	7108	*5641	4893	*4379	4228						*3247	*3247	14.51
-19.7ft lb			*23385	*23385	*17698	15670	*12436	10788	*9655	9321						*7158	*7158	47.6

R450LC-7/7A_Material Handler_Two-Piece Front

Boom : 10 m (32'10") / Arm : 7.1 m (23'4") / Shoe : 800 mm (32") triple grouser / 2m (6'7") Cabin Riser

Load Point Height m(ft)	Load Radius												At Max. Reach					
	3m (9.8ft)		6m (19.7ft)		9m (29.5ft)		12m (39.4ft)		13.5m (44.3ft)		15m (49.2ft)		16.5m (54.1ft)		Max.		Max.Reach	
																m(ft)		
16.5m kg																*4319	*4319	8.44
54.1ft lb																*9522	*9522	27.69
15m kg					*4727	*4727										*3738	*3738	10.61
49.2ft lb					*10420	*10420										*8242	*8242	34.8
12m kg					*5260	*5260	*4381	*4381								*3226	*3226	13.46
39.4ft lb					*11596	*11596	*9659	*9659								*7113	*7113	44.16
9m kg					*5794	*5794	*5378	*5378	*4649	*4649	*3336	*3336				*3043	*3043	15.21
29.5ft lb					*12774	*12774	*11857	*11857	*10249	*10249	*7354	*7354				*6708	*6708	49.92
6m kg			*6037	*6037	*7477	*7477	*6744	5963	*5854	4931	*4606	4124				*3027	*3027	16.24
19.7ft lb			*13309	*13309	*16483	*16483	*14869	13147	*12907	10872	*10155	9091				*6673	*6673	53.27
3m kg			*16706	14711	*10949	8415	*8196	5577	*7247	4671	*5683	3960	*3460	3387		*3144	*3144	16.66
9.8ft lb			*36831	32431	*24138	18552	*18069	12294	*15978	10297	*12530	8730	*7627	7467		*6932	*6932	54.66
0m kg			*11588	*11588	*11294	7678	*8189	5223	*7095	4428	*6111	3804	*3492	3313		*3410	3304	16.53
0ft lb			*25548	*25548	*24900	16927	*18055	11514	*15641	9762	*13472	8387	*7699	7305		*7518	7284	54.24
-3m kg	*4391	*4391	*13196	12530	*10399	7297	*7480	5013	*6321	4290	*5149	3735				*3895	3491	15.84
-9.8ft lb	*9681	*9681	*29093	27623	*22927	16086	*16491	11052	*13936	9457	*11352	8234				*8587	7696	51.98
-4.5m kg			*13023	12543	*9412	7241	*6738	4981	*5553	4280	*4178	3761				*3851	3689	15.26
-14.8ft lb			*28710	27652	*20750	15963	*14854	10981	*12242	9437	*9210	8292				*8489	8134	50.08
-6m kg			*10607	*10607	*8028	7263	*5641	5004	*4379	4325						*3247	*3247	14.51
-19.7ft lb			*23385	*23385	*17698	16012	*12436	11032	*9655	9535						*7158	*7158	47.6

R450LC-7/7A_Material Handler_Three-Piece Front

Boom : 7.5 m (24'7") / Middle Arm : 5 m (16'5") / End Arm : 4 m (13'1") / Shoe : 600 mm (24") triple grouser / 2m (6'7") Cabin Riser

Load Point Height m(ft)	Load Radius												At Max. Reach					
	1.5m (4.9ft)		4.5m (14.8ft)		7.5m (24.6ft)		10.5m (34.4ft)		12m (39.4ft)		13.5m (44.3ft)		15m (49.2ft)		Max.		Max.Reach	
																	m(ft)	
16.5m kg					*2580	*2580										*2781	*2781	7.9
54.1ft lb					*5687	*5687										*6131	*6131	25.9
15m kg					*2124	*2124										*2893	*2893	10.17
49.2ft lb					*4683	*4683										*6378	*6378	33.37
13.5m kg					*2099	*2099	*2653	*2653								*2959	*2959	11.84
44.3ft lb					*4628	*4628	*5850	*5850								*6525	*6525	38.83
12m kg					*2294	*2294	*2647	*2647	*2802	*2802						*3004	*3004	13.12
39.4ft lb					*5058	*5058	*5837	*5837	*6178	*6178						*6624	*6624	43.04
9m kg					*2493	*2493	*3047	*3047	*2994	*2994	*2979	*2979				*3063	*3063	14.91
29.5ft lb					*5496	*5496	*6717	*6717	*6600	*6600	*6568	*6568				*6753	*6753	48.9
6m kg					*3299	*3299	*3477	*3477	*3412	*3412	*3233	*3233	*3120	*3120		*3111	*3111	15.94
19.7ft lb					*7272	*7272	*7665	*7665	*7521	*7521	*7127	*7127	*6878	*6878		*6858	*6858	52.3
3m kg				*5743	*5743	*4500	*4500	*3997	*3997	*3817	*3817	*3511	*3511	*3290	*3290	*3157	*3157	16.37
9.8ft lb				*12661	*12661	*9921	*9921	*8812	*8812	*8416	*8416	*7741	*7741	*7254	*7254	*6961	*6961	53.71
0m kg				*8046	*8046	*5507	*5507	*4447	*4447	*4091	*4091	*3702	*3702	*3404	*3404	*3200	*3200	16.24
0ft lb				*17738	*17738	*12141	*12141	*9804	*9804	*9019	*9019	*8162	*8162	*7505	*7505	*7055	*7055	53.28
-1.5m kg				*8436	*8436	*5791	*5791	*4576	*4576	*4137	*4137	*3733	*3733	*3415	*3415	*3222	*3222	15.96
-4.9ft lb				*18598	*18598	*12767	*12767	*10087	*10087	*9120	*9120	*8229	*8229	*7529	*7529	*7104	*7104	52.36
-3m kg		*7779	*7779	*8620	*8620	*5923	*5923	*4616	*4616	*4123	*4123	*3720	*3720	*3378	*3378	*3248	*3248	15.53
-9.8ft lb		*17149	*17149	*19005	*19005	*13057	*13057	*10176	*10176	*9090	*9090	*8201	*8201	*7447	*7447	*7160	*7160	50.95

R450LC-7/7A_Material Handler_Three-Piece Front

Boom : 7.5 m (24'7") / Middle Arm : 5 m (16'5") / End Arm : 4 m (13'1") / Shoe : 800 mm (32") triple grouser / 2m (6'7") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach			
	1.5m (4.9ft)		4.5m (14.8ft)		7.5m (24.6ft)		10.5m (34.4ft)		12m (39.4ft)		13.5m (44.3ft)		15m (49.2ft)		Max.		Max.Reach	
																	m(ft)	
16.5m 54.1ft	kg lb					*2580 *5687	*2580 *5687									*2781 *6131	*2781 *6131	7.9 25.9
15m 49.2ft	kg lb					*2124 *4683	*2124 *4683									*2893 *6378	*2893 *6378	10.17 33.37
13.5m 44.3ft	kg lb					*2099 *4628	*2099 *4628	*2653 *5850	*2653 *5850							*2959 *6525	*2959 *6525	11.84 38.83
12m 39.4ft	kg lb					*2294 *5058	*2294 *5058	*2647 *5837	*2647 *5837	*2802 *6178	*2802 *6178					*3004 *6624	*3004 *6624	13.12 43.04
9m 29.5ft	kg lb					*2493 *5496	*2493 *5496	*3047 *6717	*3047 *6717	*2994 *6600	*2994 *6600	*2979 *6568	*2979 *6568			*3063 *6753	*3063 *6753	14.91 48.9
6m 19.7ft	kg lb					*3299 *7272	*3299 *7272	*3477 *7665	*3477 *7665	*3412 *7521	*3412 *7521	*3233 *7127	*3233 *7127	*3120 *6878	*3120 *6878	*3111 *6858	*3111 *6858	15.94 52.3
3m 9.8ft	kg lb					*5743 *12661	*5743 *12661	*4500 *9921	*4500 *9921	*3997 *8812	*3997 *8812	*3817 *8416	*3817 *8416	*3511 *7741	*3511 *7741	*3290 *7254	*3290 *7254	16.37 53.71
0m 0ft	kg lb					*8046 *17738	*8046 *17738	*5507 *12141	*5507 *12141	*4447 *9804	*4447 *9804	*4091 *9019	*4091 *9019	*3702 *8162	*3702 *8162	*3404 *7505	*3404 *7505	16.24 53.28
-1.5m -4.9ft	kg lb					*8436 *18598	*8436 *18598	*5791 *12767	*5791 *12767	*4576 *10087	*4576 *10087	*4137 *9120	*4137 *9120	*3733 *8229	*3733 *8229	*3415 *7529	*3415 *7529	15.96 52.36
-3m -9.8ft	kg lb	*7779 *17149	*7779 *17149	*8620 *19005	*8620 *19005	*5923 *13057	*5923 *13057	*4616 *10176	*4616 *10176	*4123 *9090	*4123 *9090	*3720 *8201	*3720 *8201	*3378 *7447	*3378 *7447	*3248 *7160	*3248 *7160	15.53 50.95

Material Handler

Lifting Capacities

R500LC-7/7A_Material Handler_Three-Piece Front

Boom : 7.5 m (24'7") / Middle Arm : 5 m (16'5") / End Arm : 4 m (13'1") / Shoe : 600 mm (24") triple grouser / 2m (6'7") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach			
	1.5m (4.9ft)		4.5m (14.8ft)		7.5m (24.6ft)		10.5m (34.4ft)		12m (39.4ft)		13.5m (44.3ft)		15m (49.2ft)		Max.		Max.Reach	
																m(ft)		
18m	kg			*2290	*2290											*2470	*2470	4.74
59.1ft	lb			*5048	*5048											*5445	*5445	15.56
16.5m	kg					*2473	*2473									*2805	*2805	8.25
54.1ft	lb					*5453	*5453									*6184	*6184	27.06
13.5m	kg					*2105	*2105	*2647	*2647	*2955	*2955					*2702	*2702	10.82
44.3ft	lb					*4641	*4641	*5836	*5836	*6514	*6514					*5956	*5956	35.5
10.5m	kg					*2371	*2371	*2821	*2821	*2862	*2862	*2945	*2945			*2919	*2919	13.24
34.4ft	lb					*5228	*5228	*6219	*6219	*6310	*6310	*6492	*6492			*6435	*6435	43.45
7.5m	kg					*2863	*2863	*3301	*3301	*3214	*3214	*3109	*3109	*3065	*3065	*3067	*3067	14.68
24.6ft	lb					*6313	*6313	*7277	*7277	*7085	*7085	*6854	*6854	*6757	*6757	*6761	*6761	48.15
4.5m	kg			*4145	*4145	*3952	*3952	*3767	*3767	*3668	*3668	*3397	*3397	*3217	*3217	*3183	*3183	15.4
14.8ft	lb			*9139	*9139	*8713	*8713	*8305	*8305	*8086	*8086	*7489	*7489	*7093	*7093	*7018	*7018	50.53
1.5m	kg			*7510	*7510	*5131	*5131	*4279	*4279	*3997	*3997	*3638	*3638	*3367	*3367	*3290	*3290	15.52
4.9ft	lb			*16557	*16557	*11311	*11311	*9433	*9433	*8812	*8812	*8020	*8020	*7423	*7423	*7253	*7253	50.91
0m	kg			*8119	*8119	*5550	*5550	*4462	*4462	*4101	*4101	*3706	*3706	*3408	*3408	*3348	*3348	15.36
0ft	lb			*17900	*17900	*12235	*12235	*9837	*9837	*9040	*9040	*8170	*8170	*7514	*7514	*7380	*7380	50.38
-1.5m	kg			*8471	*8471	*5815	*5815	*4588	*4588	*4136	*4136	*3734	*3734	*3413	*3413	*3404	*3404	15.04
-4.9ft	lb			*18676	*18676	*12820	*12820	*10115	*10115	*9118	*9118	*8232	*8232	*7525	*7525	*7505	*7505	49.35
-3m	kg	*7768	*7768	*8630	*8630	*5928	*5928	*4613	*4613	*4118	*4118	*3715	*3715	*3369	*3369	*3467	*3467	14.57
-9.8ft	lb	*17126	*17126	*19025	*19025	*13068	*13068	*10169	*10169	*9079	*9079	*8190	*8190	*7426	*7426	*7644	*7644	47.79

R500LC-7/7A_Material Handler_Three-Piece Front

Boom : 7.5 m (24'7") / Middle Arm : 5 m (16'5") / End Arm : 4 m (13'1") / Shoe : 800 mm (32") triple grouser / 2m (6'7") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach			
	1.5m (4.9ft)		4.5m (14.8ft)		7.5m (24.6ft)		10.5m (34.4ft)		12m (39.4ft)		13.5m (44.3ft)		15m (49.2ft)		Max.		Max.Reach	
																m(ft)		
18m	kg			*2290	*2290											*2470	*2470	4.74
59.1ft	lb			*5048	*5048											*5445	*5445	15.56
16.5m						*2473	*2473									*2805	*2805	8.25
54.1ft	lb					*5453	*5453									*6184	*6184	27.06
13.5m	kg					*2105	*2105	*2647	*2647	*2955	*2955					*2702	*2702	10.82
44.3ft	lb					*4641	*4641	*5836	*5836	*6514	*6514					*5956	*5956	35.5
10.5m	kg					*2371	*2371	*2821	*2821	*2862	*2862	*2945	*2945			*2919	*2919	13.24
34.4ft	lb					*5228	*5228	*6219	*6219	*6310	*6310	*6492	*6492			*6435	*6435	43.45
7.5m	kg					*2863	*2863	*3301	*3301	*3214	*3214	*3109	*3109	*3065	*3065	*3067	*3067	14.68
24.6ft	lb					*6313	*6313	*7277	*7277	*7085	*7085	*6854	*6854	*6757	*6757	*6761	*6761	48.15
4.5m	kg			*4145	*4145	*3952	*3952	*3767	*3767	*3668	*3668	*3397	*3397	*3217	*3217	*3183	*3183	15.4
14.8ft	lb			*9139	*9139	*8713	*8713	*8305	*8305	*8086	*8086	*7489	*7489	*7093	*7093	*7018	*7018	50.53
1.5m	kg			*7510	*7510	*5131	*5131	*4279	*4279	*3997	*3997	*3638	*3638	*3367	*3367	*3290	*3290	15.52
4.9ft	lb			*16557	*16557	*11311	*11311	*9433	*9433	*8812	*8812	*8020	*8020	*7423	*7423	*7253	*7253	50.91
0m	kg			*8119	*8119	*5550	*5550	*4462	*4462	*4101	*4101	*3706	*3706	*3408	*3408	*3348	*3348	15.36
0ft	lb			*17900	*17900	*12235	*12235	*9837	*9837	*9040	*9040	*8170	*8170	*7514	*7514	*7380	*7380	50.38
-1.5m	kg			*8471	*8471	*5815	*5815	*4588	*4588	*4136	*4136	*3734	*3734	*3413	*3413	*3404	*3404	15.04
-4.9ft	lb			*18676	*18676	*12820	*12820	*10115	*10115	*9118	*9118	*8232	*8232	*7525	*7525	*7505	*7505	49.35
-3m	kg	*7768	*7768	*8630	*8630	*5928	*5928	*4613	*4613	*4118	*4118	*3715	*3715	*3369	*3369	*3467	*3467	14.57
-9.8ft	lb	*17126	*17126	*19025	*19025	*13068	*13068	*10169	*10169	*9079	*9079	*8190	*8190	*7426	*7426	*7644	*7644	47.79

R800LC-7A_Material Handler_Two-Piece Front

Boom : 11.5 m (37'9") / Arm : 7.6 m (24'11") / Shoe : 700 mm (28") triple grouser / 2m (6'7") Cabin Riser

Load Point Height m(ft)	Load Radius														At Max. Reach			
	7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		12m (39.4ft)		13.5m (44.3ft)		15m (49.2ft)		16.5m (54.1ft)		Max.		Max.Reach	
																m(ft)		
19.5m 64ft	kg lb	*15753 *34729	14274 31470												*12440 *27426	10809 23830	8.7 28.56	
16.5m 54.1ft	kg lb			*16469 *36307	11322 24960	*15108 *33307	8605 18972	*12766 *28145	6624 14603						*9215 *20316	5472 12063	13.02 42.71	
13.5m 44.3ft	kg lb					*14697 *32401	8774 19343	*13581 *29940	6874 15155	*12640 *27866	5446 12006	*10978 *24201	4294 9467		*8020 *17681	3823 8428	15.64 51.31	
10.5m 34.4ft	kg lb			*16743 *36913	11040 24339	*15119 *33332	8482 18699	*13802 *30428	6689 14746	*12695 *27987	5360 11816	11613 25603	4327 9540	9939 21912	*7457 *16440	3021 6661	17.36 56.96	
7.5m 24.6ft	kg lb	*21259 *46868	13551 29875	*18305 *40356	10078 22218	*16122 *35542	7814 17228	*14424 *31800	6222 13717	*13045 *28760	5039 11109	11396 25123	4122 9088	9838 21690	3385 7463	*7222 *15922	2583 5695	18.44 60.5
4.5m 14.8ft	kg lb	*24213 *53380	11410 25155	*20091 *44293	8728 19243	*17217 *37956	6909 15231	*15074 *33232	5592 12329	12895 28429	4596 10132	11068 24401	3814 8408	9625 21219	3183 7017	*7219 *15915	2357 5196	18.98 62.29
1.5m 4.9ft	kg lb	*17895 *39452	9533 21016	*20752 *45750	7485 16501	*17590 *38779	6049 13336	14626 32244	4983 10985	12427 27397	4158 9167	10738 23673	3502 7721	9401 20725	2970 6549	*7348 *16200	2287 5042	19.04 62.48
0m 0ft	kg lb	*14193 *31290	8979 19796	*20303 *44760	7054 15552	17251 38031	5725 12621	14364 31668	4741 10452	12236 26977	3980 8774	10602 23373	3375 7440	9310 20525	2885 6359	*6785 *14958	2306 5085	18.89 61.99
-1.5m -4.9ft	kg lb	*13833 *30497	8667 19109	*19290 *42528	6770 14925	*16534 *36451	5492 12107	14168 31235	4559 10051	12090 26655	3843 8473	10499 23146	3278 7226	*9216 *20317	2824 6225	*6144 *13544	2364 5213	18.62 61.09
-3m -9.8ft	kg lb	*14705 *32418	8536 18819	*17745 *39120	6615 14583	*15370 *33885	5349 11793	*13332 *29391	4442 9792	*11550 *25463	3755 8278	*9912 *21853	3218 7095	*8245 *18176	2796 6165	*5397 *11898	2466 5436	18.22 59.78

R140W-7/7A_Material Handler_Two-Piece Front

Boom : 5.4 m (17'9") / Arm : 3.7 m (12'2") / Rear dozer blade down / 2m (6'7") Cabin Elevating

Load Point Height m(ft)	Load Radius										At Max. Reach	
	3m (9.8ft)		4.5m (14.8ft)		6m (19.7ft)		7.5m (24.6ft)		Max.		Max.Reach	
												m(ft)
10.5m 34.4ft	kg lb											
9m 29.5ft	kg lb											
7.5m 24.6ft	kg lb											
6m 19.7ft	kg lb											
4.5m 14.8ft	kg lb											
3m 9.8ft	kg lb											
1.5m 4.9ft	kg lb											
0m 0ft	kg lb											
-1.5m -4.9ft	kg lb											

R200W-7/7A_Material Handler_Two-Piece Front

Boom : 6.5 m (21'4") / Arm : 4.5 m (14'9") / Front outrigger and rear dozer blade down / 2m (6'7") Cabin Elevating

Load Point Height m(ft)	Load Radius												At Max. Reach			
	3m (9.8ft)		4.5m (14.8ft)		6m (19.7ft)		7.5m (24.6ft)		9m (29.5ft)		10.5m (34.4ft)		Max.		Max.Reach	
														m(ft)		
12m 39.4ft	kg lb													*3566 *7861	*3566 *7861	4.19 13.75
9m 29.5ft	kg lb					*3532 *7788	*3532 *7788	*3193 *7038	*3193 *7038					*2339 *5157	*2339 *5157	8.34 27.37
7.5m 24.6ft	kg lb					*3538 *7800	*3538 *7800	*3161 *6969	*3161 *6969	*2761 *6087	*2761 *6087			*2189 *4825	*2189 *4825	9.41 30.87
6m 19.7ft	kg lb			*4424 *9753	*4424 *9753	*3725 *8213	*3725 *8213	*3241 *7144	*3241 *7144	*2880 *6349	*2880 *6349			*2126 *4687	*2126 *4687	10.14 33.27
4.5m 14.8ft	kg lb	*4462 *9836	*4462 *9836	*5100 *11244	*5100 *11244	*4055 *8940	*4055 *8940	*3400 *7495	*3400 *7495	*2937 *6475	*2937 *6475	*2354 *5189	*2354 *5189	*2123 *4681	*2123 *4681	10.61 34.81
3m 9.8ft	kg lb			*5930 *13073	*5930 *13073	*4438 *9783	*4438 *9783	*3581 *7895	*3581 *7895	*3004 *6623	*3004 *6623	*2534 *5587	*2534 *5587	*2172 *4789	*2172 *4789	10.85 35.59
1.5m 4.9ft	kg lb			*6516 *14366	*6516 *14366	*4727 *10421	*4727 *10421	*3711 *8180	*3711 *8180	*3032 *6685	*3032 *6685	*2468 *5442	*2468 *5442	*2275 *5017	*2275 *5017	10.88 35.68
0m 0ft	kg lb	*4872 *10742	*4872 *10742	*6547 *14434	*6547 *14434	*4782 *10542	*4782 *10542	*3709 *8176	*3709 *8176	*2961 *6528	*2961 *6528	*2281 *5030	*2281 *5030	*2168 *4780	*2168 *4780	10.69 35.07
-1.5m -4.9ft	kg lb	*7891 *17396	*7891 *17396	*6029 *13292	*6029 *13292	*4524 *9973	*4524 *9973	*3501 *7719	*3501 *7719	*2717 *5990	*2717 *5990			*1989 *4385	*1989 *4385	10.28 33.73
-3m -9.8ft	kg lb	*6419 *14152	*6419 *14152	*5041 *11114	*5041 *11114	*3907 *8614	*3907 *8614	*3007 *6628	*3007 *6628	*2170 *4785	*2170 *4785			*1716 *3783	*1716 *3783	9.62 31.56