

▲ HYUNDAI CONSTRUCTION EQUIPMENT

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PLEASE CONTACT



MOVING YOU FURTHER



130 **520** LC-9

PRIDE AT WORK

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

Machine Walk-Around

Engine Technology

Proven / reliable, fuel efficient Cummins Tier III QSM11 engine Electronically controlled for optimum fuel to air ratio and clean, efficient combustion Low noise / Auto engine overheat feature / Anti-restart feature

Hydraulic System Improvements

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

Pump Compartment

Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps New compact solenoid block equipped with 4 solenoid valves, 1 EPPR valve, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock

Enhanced Operator Cab

Improved Visibility

Enlarged cab with improved visibility / See-through upper skylight for visibility and ventilation Larger right-side glass, now one piece, for better right visibility

Safety glass windows on all sides - less expensive than (polycarbonate) and won't scratch or fade Closeable sunshade for operator convenience / Reduced front window seam for improved operator view

Improved Cab Construction

New steel tube construction for added operator safety, protection and durability

New window open/close mechanism designed with cable and spring lift assist and single latch release

Improved Suspension Seat / Console Assembly

Ergonomic joysticks with auxiliary control buttons for attachment use. Now with new sleek styling Heated suspension seat(standard) or optional air ride suspension seat with heater

New joystick consoles - now adjustable in height by way of dial at bottom Adjustable arm rests - turn dial to raise or lower for optimum comfort

Advanced 7" Color Cluster

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

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

Enhanced self-diagnostic features with GPS download capability

One pump flow or two pump flow for optional attachment now selectable through the cluster / New anti-theft system with password capability

Boom speed and arm regeneration are selectable through the monitor.

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

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

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

Undercarriage

Sealed track chain (urethane seals) / Standard track rail guard / Comfortable bolt-on steps Large upper roller cut-outs for debris clean-out / Tapered side frames for debris clean-out / Grease-type track tensioner



Operator Comfort

In 9 series cabin you can easily adjust the seat, console and armrest settings to best suit your preferred comfort level. Seat and console position and height can be set together and independent from each other. Other preference settings that add to overall operator comfort include the full automatic high capacity airconditioning system and the Radio / USB player.



Reduced Stress

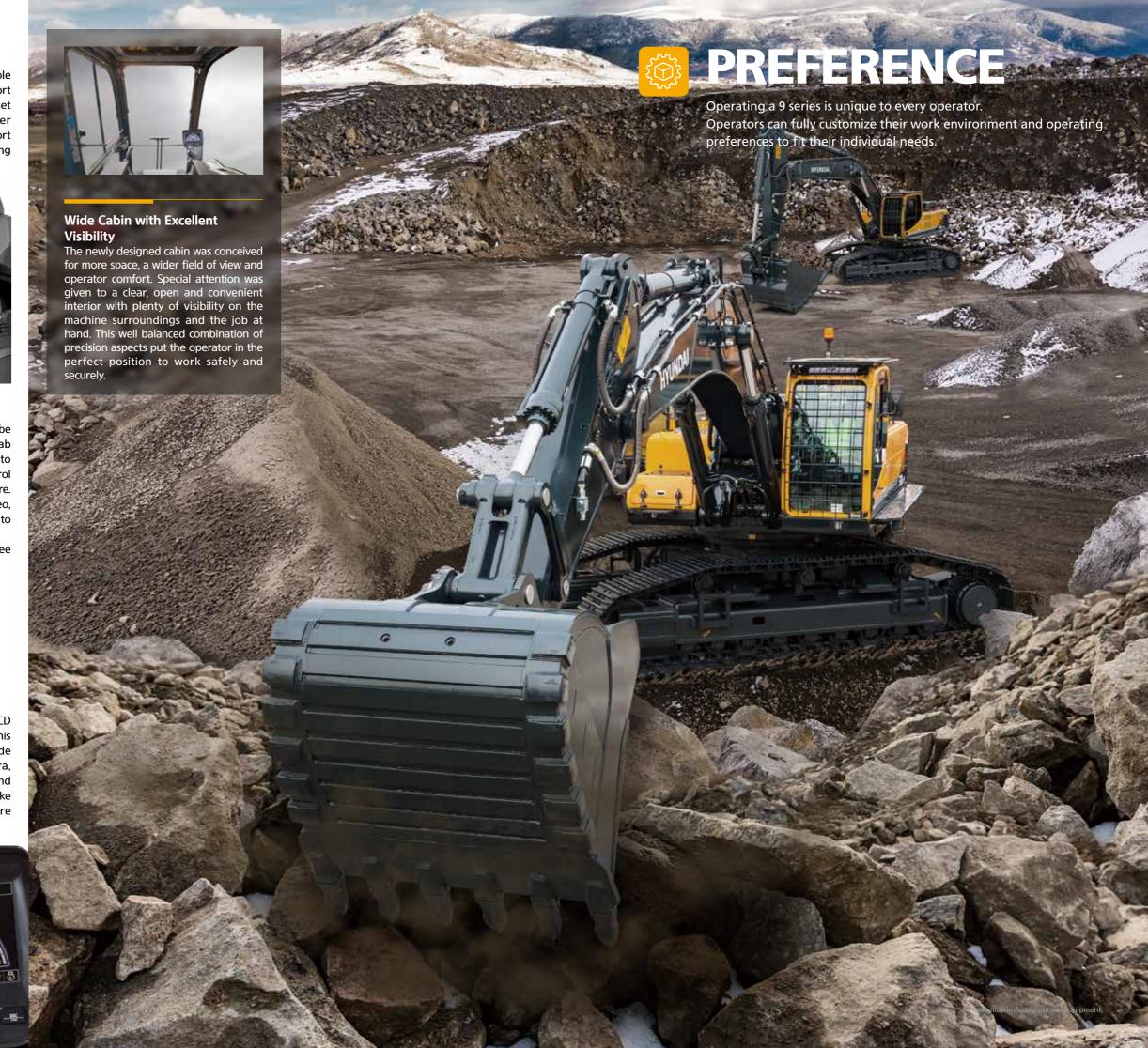
Work is stressful enough. Your work environment should be stress free. Hyundai's 9 series provides improved cab amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio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

Operators can even talk on the phone with the hands-free cell phone feature.



Operator - Friendly Cluster

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



Computer Aided Power

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

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

Power Mode

P (Power Max) mode maximizes machine speed and power for mass production. S (Standard) mode provides a reduced, fixed rpm for optimum performance and improved fuel economy. For maximum fuel savings and improved control, E (Economy) mode provides precise flow and engine power based on load demand. Three unique power modes provide the operator with custom power, speed and fuel economy.

Work Mode

The work mode allows the operator to select single flow attachments like a hydraulic breaker or bi-directional flow attachments like a crusher. Flow settings unique to each attachment can be programmed from within the cluster.

User Mode

Some jobs require more precise machine settings. Using the versatile U (User) mode, the operator can customize engine speed, pump output, idle speed and other machine settings for the job at hand.



Improved Hydraulic System

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

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

Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9 series look like a smooth operator. Newly improved features include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance in any application.



Auto Boom-swing Priority

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





Track Rail Guard & Adjusters

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



CUMMINS QSM11 ENGINE

The Tier III compliant, six cylinder, turbo-charged, 4 cycle, water cooled, Cummins QSM11 diesel engine is built for power, reliability, efficiency and reduced emissions.

Heavy-duty strength

The QSM11 from Cummins. With advanced electronics. Higher torque. Better throttle response. Shorter service times. Longer maintenance intervals. Increased fuel economy. Decreased noise. Diagnostics. Prognostics. Engine protection, and more. All wrapped up in something we call the Quantum system.

The QSM11 is built to withstand the toughest work environment. Bearings have more surface area to handle higher loads with greater durability. The exhaust manifold allows for heat expansion and contraction, eliminating metal stress fractures. Reduced friction in the power cylinder means longer life and increased power output. From the structurally reinforced block to the stiffened gear housing, the QSM11 is built stronger to last longer.





Long-Life Components

9 series excavators were designed with bushings designed for long-life lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), long-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend service intervals, minimize operating costs and reduce machine down time.





Fuel Efficiency

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



Easy Access

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







SPECIFICATIONS

ENGINE					
Model			Cummins QSM11		
Туре			Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charger air cooled, Low emission		
Rated	SAE	J1995(gross)	357HP (266kW) / 1,900rpm		
flywheel	SAE	J1349 (net)	342HP (255kW) / 1,900rpm		
horse	DIN	6271/1 (gross)	362PS (266kW) / 1,900rpm		
power		6271/1 (net)	347PS (255kW) / 1,900rpm		
Max. torq	ue		171kgf·m (1,236lbf·ft) / 1,400rpm		
Bore X st	roke		125mm X 147mm (4.92" X 5.79")		
Piston dis	placer	ment	10,800cc (659 in ³)		
Batteries			2 X 12V X 200AH		
Starting motor			24V, 7.2kW		
Alternator			24V, 70Amp		

	,
HYDRAULIC SYSTEM	
MAIN PUMP	
Туре	Variable displacement tandem-axis piston pumps
Rated 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 pu	mp 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	
	Boom: 2-170 X1 570 mm (6 7" X 61 8")

Arm: 1-190 X 1,820 mm (7.5" X 71.7")

Bucket: 1-170 X 1,370 mm (6.7" X 53.9")

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)	5.0 km/hr (3.3 mph) / 3.2 km/hr (2.0 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

CONTROL

No. of cylinder

bore X stroke

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

provide dimost error tiess and id	agaciess 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

Axial piston motor
Planetary gear reduction
Grease-bathed
Multi wet disc
9.0 rpm

COOLANT & LUBRICANT CAPACITY							
Re-filling	liter	US gal	UK gal				
Fuel tank	621.0	164.0	136.6				
Engine coolant	45.0	11.9	9.9				
Engine oil	37.9	10.0	8.3				
Swing devic	5.0	1.3	1.1				
Final drive (each)	5.0	1.3	1.1				
Hydraulic system (including tank)	380.0	100.4	83.6				
Hydraulic tank	262.0	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	3
No. of track rollers on each side	9
No of rail guards on each side	2

OPERATING WEIGHT (APPROXIMATE)

MAJOR COMPONENT WEIGHT

Operating weight, including 7,060mm (23' 2") boom, 3,380mm (11' 1") arm, SAE heaped 2.15m3 (2.81 yd3) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

Upperstruct	ure	11,210kg (24,710lb)			
Boom (with	Boom (with arm cylinder)		4,140kg (9,130lb)		
OPERATING	G WEIGHT				
Shoes			Operating weight	Ground pressure	
Туре	Width mm (in)		kg (lb)	kgf/cm² (psi)	
	600 mm (24")		51,000 (112,440)	0.88 (12.51)	
Triple	700 mm (28")		51,540 (113,630)	0.76 (10.81)	
grouser	750 mm (30")		51,810 (114,220)	0.72 (10.24)	
	900 mm (36")		52,080 (114,820)	0.67 (9.53)	
Double	600 mm (24")		51,000 (112,440)	0.88 (12.51)	
grouser	700 mm (28")		51,540 (113,630)	0.76 (10.81)	

AIR CONDITIONING SYSTEM

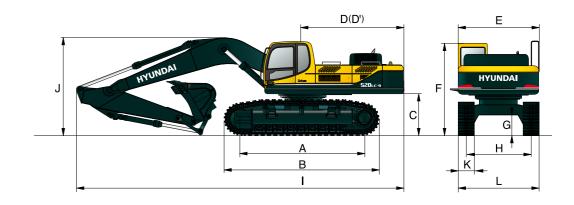
The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential: 1430)

The system hold 0.75kg refrigerant consisting of a CO2 equivalent 1.07kg metric tonne.

For more information, Please refer to the manual.

DIMENSIONS & WORKING RANGE

R520LC-9 DIMENSIONS

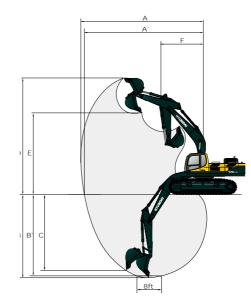


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Α	Tumbler distance	4,470 (14' 8")
В	Overall length of crawler	5,460 (17' 11")
C	Ground clearance of counterweight	1,500 (4' 11")
D	Tail swing radius	3,750 (12' 4")
D'	Rear-end length	3,695 (12' 1")
E	Overall width of upperstructure	2,980 (9' 9")
F	Overall height of cab	3,400 (11' 2")
G	Min. ground clearance	770 (2' 6")
Н	Track gauge (Extended/Retracted)	2,940 (9' 8") / 2,380 (7' 10")

								Unit .	mm (rt·in)
	Boom leng	7,060 (23' 2")				6,550 (21' 6")	9,000 (29' 6")	10,000 (32'10")	
	Arm length		2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	2,400 (7' 10")	5,850 (19' 2")	6,850 (22' 6")
1	Overall len	gth	12,280 (40' 3")	12,180 (40' 0")	12,060 (39' 7")	12,050 (39' 6")	11,780 (38' 8")	13,800 (45' 3")	14,470 (47' 6")
J	J Overall height of boom		3,970 (13' 0")	3,880 (12' 9")	3,850 (12' 8")	4,100 (13' 5")	4,100 (13' 5")	5,190 (17' 0")	5,860 (19' 3")
K	K Track shoe width		600 (2	24")	700 (28	") 7	750 (30")	800) (32")
	Overall	Extended	3,540 (1	1' 7"):	3,640 (11'	11") 3,6	90 (12' 1"	3,740	(12' 3")
_	width	Retracted	2,990 (9	" 10")	3,080 (10'	1") 3,1	30 (10' 3") 3,180	(10' 5")

R520LC-9 WORKING RANGE



							Unit:	mm (ft·in)
	Boom length		7,060 (23' 2")			6,550 (21' 6")	9,000 (29' 6")	10,000 (32'10")
	Arm length	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	2,400 (7' 10")	5,850 (19' 2")	6,850 (22' 6")
Α	Max. digging reach	11,140 (36' 7")	11,530 (37' 10")	12,080 (39' 8")	12,640 (41' 6")	10,590 (34' 9")	16,280 (53' 5")	18,170 (59' 7")
A'	Max. digging reach on ground	10,890 (35' 9")	11,290 (37' 0")	11,840 (38' 10")	12,420 (40' 9")	10,320 (33' 10")	16,100 (52' 10")	18,010 (59' 1")
В	Max. digging depth	6,610 (21' 8")	7,110 (23' 4")	7,590 (24' 11")	8,210 (26' 11")	6,130 (20' 1")	11,380 (37' 4")	13,010 (42' 8")
B'	Max. digging depth (8' level)	6,430 (21' 1")	6,940 (22' 9")	7,440 (24' 5")	8,080 (26' 6")	5,950 (19' 6")	11,280 (37' 0")	12,930 (42' 5")
С	Max. vertical wall digging depth	4,880 (16' 0")	4,780 (15' 8")	5,470 (17' 11")	5,980 (19' 7")	4,390 (14' 5")	10,070 (33' 0")	11,640 (38' 2")
D	Max. digging height	10,640 (34' 11")	10,610 (34' 10")	11,080 (36' 4")	11,290 (37' 0")	10,260 (33' 8")	13,930 (45' 8")	15,150 (49' 8")
E	Max. dumping height	7,290 (23' 11")	7,350 (24' 1")	7,760 (25' 6")	7,980 (26' 2")	6,920 (22' 8")	10,530 (34' 7")	11,760 (38' 7")
F	Min. swing radius	5,110 (16' 9")	4,910 (16' 1")	4,830 (15' 10")	4,910 (16' 1")	4,650 (15' 3")	5,940 (19' 6")	6,510 (21' 4")

12/13

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

R520LC-9

Boom: 6.55m (21' 6") / Arm: 2.40 m (7' 10") / Bucket: 2.15 m³ (2.81 yd³) SAE heaped / Shoe: 600mm (24") triple grouser

					Load	radius					At max. reach	1
Load po		3.0 m	(10 ft)	4.5 m	(15 ft)	6.0 m	(20 ft)	7.5 m	(25 ft)	Cap	acity	Reach
heigh m (ft												m (ft)
7.5 m	kg									*9,680	9,450	8.27
(25 ft)	lb									*21,340	20,830	(27.1)
6.0 m	kg					*12,520	*12,520	*10,940	10,930	*9,510	7,850	9.07
(20 ft)	lb					*27,600	*27,600	*24,120	24,100	*20,970	17,310	(29.8)
4.5 m	kg			*18,820	*18,820	*14,060	*14,060	*11,610	10,610	*9,480	7,010	9.53
(15 ft)	lb			*41,490	*41,490	*31,000	*31,000	*25,600	23,390	*20,900	15,450	(31.3)
3.0 m	kg					*15,650	14,440	*12,390	10,200	*9,510	6,620	9.71
(10 ft)	lb					*34,500	31,830	*27,320	22,490	*20,970	14,590	(31.9)
1.5 m	kg					*16,660	13,790	*12,920	9,840	*9,540	6,600	9.62
(5 ft)	lb					*36,730	30,400	*28,480	21,690	*21,030	14,550	(31.6)
Ground	kg			*22,490	21,060	*16,730	13,430	*12,920	9,610	*9,500	6,960	9.26
Line	lb			*49,580	46,430	*36,880	29,610	*28,480	21,190	*20,940	15,340	(30.4)
-1.5 m	kg	*25,000	*25,000	*20,550	*20,550	*15,740	13,350	*12,050	9,550	*9,220	7,870	8.59
(-5 ft)	lb	*55,120	*55,120	*45,300	*45,300	*34,700	29,430	*26,570	21,050	*20,330	17,350	(28.2)
-3.0 m	kg	*20,980	*20,980	*17,260	*17,260	*13,380	*13,380			*8,260	*8,260	7.49
(-10 ft)	lb	*46,250	*46,250	*38,050	*38,050	*29,500	*29,500			*18,210	*18,210	(24.6)
-4.5 m	kg			*11,720	*11,720							
(-15 ft)	lb			*25,840	*25,840							

Boom: 7.06m (23' 2") / Arm: 2.40 m (7' 10") / Bucket: 2.15 m³ (2.81 yd³) SAE heaped / Shoe: 600mm (24") triple grouser

						Load	radius					Δ	t max. reac	h
Load po		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)	Cap	acity	Reach
heigh (m)	τ													m (ft)
7.5 m	kg							*9,860	*9,860			*8,740	8,150	8.92
(25 ft)	lb							*21,740	*21,740			*19,270	17,970	(29.3)
6.0 m	kg					*12,070	*12,070	*10,320	*10,320			*8,630	6,890	9.66
(20 ft)	lb					*26,610	*26,610	*22,750	*22,750			*19,030	15,190	(31.7)
4.5 m	kg					*13,750	*13,750	*11,130	10,410	*9,620	7,600	*8,620	6,210	10.10
(15 ft)	lb					*30,310	*30,310	*24,540	22,950	*21,210	16,760	*19,000	13,690	(33.1)
3.0 m	kg					*15,370	13,980	*11,980	9,950	*9,980	7,390	*8,670	5,890	10.26
(10 ft)	lb					*33,890	30,820	*26,410	21,940	*22,000	16,290	*19,110	12,990	(33.7)
1.5 m	kg					*16,320	13,350	*12,570	9,570	*10,220	7,200	*8,720	5,870	10.18
(5 ft)	lb					*35,980	29,430	*27,710	21,100	*22,530	15,870	*19,220	12,940	(33.4)
Ground	kg					*16,370	13,040	*12,680	9,340			*8,720	6,160	9.84
Line	lb					*36,090	28,750	*27,950	20,590			*19,220	13,580	(32.3)
-1.5 m	kg			*19,880	*19,880	*15,530	13,000	*12,110	9,280			*8,550	6,880	9.22
(-5 ft)	lb			*43,830	*43,830	*34,240	28,660	*26,700	20,460			*18,850	15,170	(30.2)
-3.0 m	kg	*20,120	*20,120	*17,240	*17,240	*13,690	13,170	*10,450	9,420			*7,940	*7,940	8.22
(-10 ft)	lb	*44,360	*44,360	*38,010	*38,010	*30,180	29,030	*23,040	20,770			*17,500	*17,500	(27.0)
-4.5 m	kg			*12,990	*12,990	*10,140	*10,140							
(-15 ft)	lb			*28,640	*28,640	*22,350	*22,350							

Rating over-front Rating over-side or 360 degree

R520LC-9

Boom: 7.06m (23' 2") / Arm: 2.90 m (9' 6") / Bucket: 2.15 m³ (2.81 yd³) SAE heaped / Shoe: 600mm (24") triple grouser

						Load	radius					А	t max. reac	h
Load po		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)	Capa	acity	Reach
heigh m (ft														m (ft)
7.5 m	kg							*9,130	*9,130			*8,030	7,490	9.38
(25 ft)	lb							*20,130	*20,130			*17,700	16,510	(30.8)
6.0 m	kg							*9,680	*9,680			*7,980	6,390	10.08
(20 ft)	lb							*21,340	*21,340			*17,590	14,090	(33.1)
4.5 m	kg			*17,520	*17,520	*12,920	*12,920	*10,560	10,490	*9,150	7,650	*8,020	5,780	10.50
(15 ft)	lb			*38,620	*38,620	*28,480	*28,480	*23,280	23,130	*20,170	16,870	*17,680	12,740	(34.4)
3.0 m	kg			*21,080	*21,080	*14,680	14,130	*11,500	9,990	*9,620	7,390	*8,110	5,480	10.66
(10 ft)	lb			*46,470	*46,470	*32,360	31,150	*25,350	22,020	*21,210	16,290	*17,880	12,080	(35.0)
1.5 m	kg			*22,550	20,650	*15,900	13,380	*12,240	9,560	*9,990	7,150	*8,210	5,440	10.58
(5 ft)	lb			*49,710	45,530	*35,050	29,500	*26,980	21,080	*22,020	15,760	*18,100	11,990	(34.7)
Ground	kg			*22,180	20,340	*16,280	12,970	*12,550	9,260	*10,050	6,980	*8,290	5,670	10.26
Line	lb			*48,900	44,840	*35,890	28,590	*27,670	20,410	*22,160	15,390	*18,280	12,500	(33.7)
-1.5 m	kg	*21,080	*21,080	*20,820	20,390	*15,780	12,830	*12,240	9,140			*8,260	6,270	9.66
(-5 ft)	lb	*46,470	*46,470	*45,900	44,950	*34,790	28,290	*26,980	20,150			*18,210	13,820	(31.7)
-3.0 m	kg	*23,440	*23,440	*18,490	*18,490	*14,330	12,930	*11,060	9,200			*7,950	7,480	8.72
(-10 ft)	lb	*51,680	*51,680	*40,760	*40,760	*31,590	28,510	*24,380	20,280			*17,530	16,490	(28.6)
-4.5 m	kg	*18,200	*18,200	*14,780	*14,780	*11,520	*11,520					*6,800	*6,800	7.30
(-15 ft)	lb	*40,120	*40,120	*32,580	*32,580	*25,400	*25,400					*14,990	*14,990	(24.0)

Boom: 7.06m (23' 2") / Arm: 3.38 m (11' 1") / Bucket: 2.15 m³ (2.81 yd³) SAE heaped / Shoe: 600mm (24") triple grouser

						Load	radius					Δ	t max. reac	:h
Load po		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)	Cap	acity	Reach
heigh (m)	ıt													m (ft)
7.5 m	kg											*7,510	6,700	10.00
(25 ft)	lb											*16,560	14,770	(32.8)
6.0 m	kg							*9,190	*9,190	*8,380	7,980	*7,470	5,810	10.66
(20 ft)	lb							*20,260	*20,260	*18,470	17,590	*16,470	12,810	(35.0)
4.5 m	kg			*16,290	*16,290	*12,260	*12,260	*10,120	*10,120	*8,830	7,750	*7,510	5,290	11.05
(15 ft)	lb			*35,910	*35,910	*27,030	*27,030	*22,310	*22,310	*19,470	17,090	*16,560	11,660	(36.3)
3.0 m	kg			*20,110	*20,110	*14,150	*14,150	*11,160	10,110	*9,380	7,470	*7,590	5,040	11.20
(10 ft)	lb			*44,330	*44,330	*31,200	*31,200	*24,600	22,290	*20,680	16,470	*16,730	11,110	(36.7)
1.5 m	kg			*22,300	21,040	*15,600	13,560	*12,020	9,640	*9,840	7,200	*7,680	5,000	11.13
(5 ft)	lb			*49,160	46,390	*34,390	29,890	*26,500	21,250	*21,690	15,870	*16,930	11,020	(36.5)
Ground	kg			*22,570	20,490	*16,260	13,060	*12,490	9,310	*10,050	7,000	*7,750	5,190	10.82
Line	lb			*49,760	45,170	*35,850	28,790	*27,540	20,530	*22,160	15,430	*17,090	11,440	(35.5)
-1.5 m	kg	*19,050	*19,050	*21,590	20,400	*16,040	12,850	*12,390	9,130	*9,790	6,900	*7,740	5,670	10.26
(-5 ft)	lb	*42,000	*42,000	*47,600	44,970	*35,360	28,330	*27,320	20,130	*21,580	15,210	*17,060	12,500	(33.7)
-3.0 m	kg	*25,420	*25,420	*19,580	*19,580	*14,900	12,870	*11,510	9,130			*7,520	6,620	9.40
(-10 ft)	lb	*56,040	*56,040	*43,170	*43,170	*32,850	28,370	*25,380	20,130			*16,580	14,590	(30.8)
-4.5 m	kg	*21,120	*21,120	*16,290	*16,290	*12,560	*12,560	*9,330	*9,330			*6,750	*6,750	8.11
(-15 ft)	lb	*46,560	*46,560	*35,910	*35,910	*27,690	*27,690	*20,570	*20,570			*14,880	*14,880	(26.6)
-6.0 m	kg			*10,870	*10,870									
(-20 ft)	lb			*23,960	*23,960									

^{| 1 |} Lifting capacity is based on ISO 10567.

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^{| 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.

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

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

R520LC-9

Boom: 7.06m (23' 2") / Arm: 4.00 m (13' 1") / Bucket: 2.15 m³ (2.81 yd³) SAE heaped / Shoe: 600mm (24") triple grouser

							Load	radius						At	t max. rea	ch
Load po		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	n (35 ft)	Cap	acity	Reach
m (ft																m (ft)
7.5 m	kg									*6,160	*6,160			*6,770	5,950	10.64
(25 ft)	lb									*13,580	*13,580			*14,930	13,120	(34.9)
6.0 m	kg									*76,70	*7,670			*6,770	5,200	11.26
(20 ft)	lb									*16,910	*16,910			*14,930	11,460	(36.9)
4.5 m	kg							*9,320	*9,320	*8,200	7,790	*5,180	*5,180	*6,830	4,750	11.62
(15 ft)	lb							*20,550	*20,550	*18,080	17,170	*11,420	*11,420	*15,060	10,470	(38.1)
3.0 m	kg			*18,340	*18,340	*13,130	*13,130	*10,450	10,170	*8,830	7,470	*6,760	5,620	*6,920	4,520	11.77
(10 ft)	lb			*40,430	*40,430	*28,950	*28,950	*23,040	22,420	*19,470	16,470	*14,900	12,390	*15,260	9,960	(38.6)
1.5 m	kg			*21,260	*21,260	*14,840	13,650	*11,460	9,640	*9,410	7,150	*7,540	5,450	*7,030	4,480	11.70
(5 ft)	lb			*46,870	*46,870	*32,720	30,090	*25,260	21,250	*20,750	15,760	*16,620	12,020	*15,500	9,880	(38.4)
Ground	kg	*13,810	*13,810	*22,360	20,460	*15,850	13,020	*12,130	9,240	*9,780	6,900	*6,850	5,310	*7,130	4,620	11.41
Line	lb	*30,450	*30,450	*49,300	45,110	*34,940	28,700	*26,740	20,370	*21,560	15,210	*15,100	11,710	*15,720	10,190	(37.4)
-1.5 m	kg	*18,040	*18,040	*22,000	20,150	*16,010	12,700	*12,290	8,990	*9,780	6,750			*7,190	5,000	10.88
(-5 ft)	lb	*39,770	*39,770	*48,500	44,420	*35,300	28,000	*27,090	19,820	*21,560	14,880			*15,850	11,020	(35.7)
-3.0 m	kg	*23,040	*23,040	*20,520	20,190	*15,290	12,620	*11,780	8,920	*9,150	6,730			*7,110	5,740	10.08
(-10 ft)	lb	*50,790	*50,790	*45,240	44,510	*33,710	27,820	*25,970	19,670	*20,170	14,840			*15,670	12,650	(33.1)
-4.5 m	kg	*24,400	*24,400	*17,830	*17,830	*13,520	12,770	*10,290	9,030					*6,710	*6,710	8.91
(-15 ft)	lb	*53,790	*53,790	*39,310	*39,310	*29,810	28,150	*22,690	19,910					*14,790	*14,790	(29.2)
-6.0 m	kg	*17,570	*17,570	*13,410	*13,410	*10,090	*10,090									
(-20 ft)	lb	*38,740	*38,740	*29,560	*29,560	*22,240	*22,240									

Boom: 9.00m (29' 6") / Arm: 5.85 m (19' 2") / Bucket: 1.38 m³ (1.80 yd³) SAE heaped / Shoe: 600mm (24") triple grouser

							Load	radius						A	t max. rea	ch
Load po		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	n (35 ft)	Сар	acity	Reach
m (ft																m (ft)
7.5 m	kg													*4,210	3,970	13.66
(25 ft)	lb													*9,280	8,750	(44.8)
6.0 m	kg									*4,750	*4,750	*2,800	*2,800	*4,140	3,270	14.63
(20 ft)	lb									*10,470	*10,470	*6,170	*6,170	*9,130	7,210	(48.0)
4.5 m	kg									*5,130	*5,130	*4,310	4,110	*4,130	2,840	15.25
(15 ft)	lb									*11,310	*11,310	*9,500	9,060	*9,110	6,260	(50.0)
3.0 m	kg					*8,700	*8,700	*6,790	*6,790	*5,650	5,520	*4,910	3,900	*4,170	2,580	15.57
(10 ft)	lb					*19,180	*19,180	*14,970	*14,970	*12,460	12,170	*10,820	8,600	*9,190	5,690	(51.1)
1.5 m	kg			*16,120	*16,120	*10,440	*10,440	*7,740	7,260	*6,190	5,110	*5,190	3,670	*4,230	2,470	15.60
(5 ft)	lb			*35,540	*35,540	*23,020	*23,020	*17,060	16,010	*13,650	11,270	*11,440	8,090	*9,330	5,450	(51.2)
Ground	kg			*16,710	16,170	*11,660	9,800	*8,490	6,670	*6,630	4,760	*5,400	3,460	*4,290	2,490	15.35
Line	lb			*36,840	35,650	*25,710	21,610	*18,720	14,700	*14,620	10,490	*11,900	7,630	*9,460	5,490	(50.4)
-1.5 m	kg	*11,290	*11,290	*17,600	15,570	*12,130	9,250	*8,870	6,270	*6,840	4,500	*5,410	3,320	*4,340	2,660	14.80
(-5 ft)	lb	*24,890	*24,890	*38,800	34,330	*26,740	20,390	*19,550	13,820	*15,080	9,920	*11,930	7,320	*9,570	5,860	(48.6)
-3.0 m	kg	*14,480	*14,480	*16,990	15,500	*11,860	9,040	*8,750	6,090	*6,680	4,380	*4,170	3,290	*4,330	3,030	13.91
(-10 ft)	lb	*31,920	*31,920	*37,460	34,170	*26,150	19,930	*19,290	13,430	*14,730	9,660	*9,190	7,250	*9,550	6,680	(45.6)
-4.5 m	kg	*18,200	*18,200	*15,010	*15,010	*10,780	9,100	*8,000	6,110	*5,900	4,430			*4,180	3,740	12.60
(-15 ft)	lb	*40,120	*40,120	*33,090	*33,090	*23,770	20,060	*17,640	13,470	*13,010	9,770			*9,220	8,250	(41.3)
-6.0 m	kg	*16,860	*16,860	*11,770	*11,770	*8,630	*8,630	*6,210	*6,210					*3,610	*3,610	10.71
(-20 ft)	lb	*37,170	*37,170	*25,950	*25,950	*19,030	*19,030	*13,690	*13,690					*7,960	*7,960	(35.1)

- | 1 | Lifting capacity is based on 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.

BUCKET SELECTION GUIDE & DIGGING FORCE

BUCKETS

All buckets are welded with high-strength steel













SAE heaped m³ (yd³)

1.00 (1.31) 1.38 (1.80)

2.15 (2.81) 2.79 (3.65) 3.03 (3.96)

●1.80 (2.35) **⊙**2.70 (3.53) ●3.20 (4.19)

32.20 (2.88)

	Capac	ity	Wi	dth				Recomm	mendation m	m (ft·in)		
	m³ (yo	,	m		Weight		7,060(23'	2") Boom		6,550(21' 6") Boom	9,000(29' 6") Boom	10,000(32' 10") Boom
	SAE heaped	CECE heaped	Without side cutters	With side cutters	kg (lb)	2,400(7' 10") Arm	2,900(9' 6") Arm	3,380(11' 1") Arm	4,000(13' 1") Arm	2,400(7' 10") Arm	5,850(19' 2") Arm	6,850(22' 6") Arm
	1.00 (1.31)	0.9 (1.18)	915 (36.0)	1,065 (41.9)	1,220 (2,690)	-	_	-	-	-	•	
	1.38 (1.80)	1.25 (1.63)	1,100 (43.3)	1,250 (49.2)	1,420 (3,130)	-	-	-	-	-		A
	1.65 (2.16)	1.48 (1.94)	1,140 (44.9)	1,290 (50.8)	1,520 (3,350)	•	•	•		•	-	_
	2.15 (2.81)	1.92 (2.51)	1,415 (55.7)	1,565 (61.6)	1,740 (3,840)	•	•		A	•	-	-
	2.79 (3.65)	2.47 (3.23)	1,760 (69.3)	1,910 (75.2)	1,960 (4,320)			A	-	•	-	-
	3.03 (3.96)	2.67 (3.49)	1,890 (74.4)	2,040 (80.3)	2,090 (4,610)	A	A	-	-		-	-
*	2.20 (2.88)	1.80 (2.35)	1,840 (72.4)	-	2,170 (4,780)	•	•	•	-	•	-	-
•	1.80 (2.35)	1.50 (1.96)	1,560 (61.4)	-	2,110 (4,650)	•	•		-	•	-	_
•	2.70 (3.53)	2.5 (3.27)	1,790 (70.5)	-	2,715 (5,990)	A	-	-	-		-	_
•	3.20 (4.19)	2.80 (3.66)	2,095 (82.5)	-	2,900 (6,390)	-	-	-	-		-	-

[♦]Heavy duty bucket

●Rock-Heavy duty bucket

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

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 6,550mm(21' 6"), 7,060mm(22' 2"), 9,000mm(29' 6"), 10,000mm(32' 10")booms and 2,400mm(7' 10"), 2,900mm(9' 6"), 3,380mm(11' 1"), 4,000mm(13' 1"), 5,850mm(19' 2"), 6,850mm(22' 6")arms are available.

_	Length	mm (ft·in)		7,060(23' 2")		
Boom	Weight	kg (lb)		3,260	(7,180)		
A	Length	mm (ft·in)	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	Remark
Arm	Weight	kg (lb)	2,370 (5,220)	2,540 (5,600)	2,380 (5,250)	2,670 (5,890)	
		kN	247.1 [269.6]	251.1 [273.9]	253.0 [276.0]	253.0 [276.0]	
	SAE	kgf	25,200 [27,490]	25,600 [27,930]	25,800 [28150]	25,800 [28,150]	
Bucket		lbf	55,560 [60,610]	56,440 [61,570]	56,880 [62050]	56,880 [62,050]	
digging force		kN	286.4 [312.4]	290.3 [316.7]	292.2 [318.8]	292.2 [318.8]	
	IOS	kgf	29,200 [31850]	29,600 [32,290]	29,800 [32,510]	29,800 [32,510]	
		lbf	64,370 [70220]	65,260 [71,190]	65,700 [71,670]	65,700 [71,670]	[]:
		kN	278.5 [303.8]	225.6 [246.1]	192.2 [209.7]	171.6 [187.2]	Power Boost
	SAE	kgf	28,400 [30,980]	23,000 [25,090]	19,600 [21,380]	17,500 [19,090]	30031
Arm		lbf	62,610 [68,300]	50,710 [55,320]	43,210 [47,140]	38,580 [42,090]	
crowd force		kN	291.3 [317.7]	235.4 [256.8]	200.1 [218.2]	177.5 [193.6]	
	IOS	kgf	29,700 [32,400]	24,000 [26,180]	20,400 [22,250]	18,100 [19,750]	
		lbf	65,480 [71,430]	52,910 [57,720]	44,970 [49,060]	39,900 [43,530]	

Note: Boom weight includes arm cylinder, piping, and pin Arm weight includes bucket cylinder, linkage, and pin

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STANDARD / OPTIONAL

	erd sahin
ISO Stand	
	r steel cab with 360° visibility s windows
	pe windshield wiper
	l-in front window
Lockable d	window (LH)
Hot & cool	
	mpartment & Ashtray
	nt cabin roof-cover
Radio & U	
	mobile phone system with USB
	ver outlet (24V DC to 12V DC converter)
Sun visor	ici oddict (244 De to 124 De converter)
	aided power optimization (New CAPO) system
	ode, 2-work mode, User mode
	eration & one-touch deceleration system
	-up system
	neat prevention system
	climate control
	oner & heater
Defroster	
	ostics system
	id (air grid heater) for cold weather
	d monitoring
LCD displa	
•	ed or Trip meter/Accel.
Clock	
Gauges	
Fuel level	auge
	lant temperature gauge
	nperature gauge
Warnings	
Check eng	ne
Overload	
Communic	ation error
Low batter	у
Air cleane	clogging
Indicators	
Max powe	
Low speed	/High speed
Fuel warm	er
Auto idle	
Door and	ab locks, one key
Three out	ide rearview mirrors
Mechanica	l suspension seat with heater
Pilot-oper	ated slidable joystick
Console b	ox height adjust system
Four front	working lights, one rear light
Electric ho	rn
Batteries	2 x 12V x 200 AH)
Battery m	aster switch
Removabl	e clean-out dust net for cooler
Automatic	swing brake
Automatic	fuel line deaeration
Fuel pre-f	lter with fuel warmer
Boom hole	ling system
Arm holdi	ng system
Track sho	s (600mm, 24")
Track rail	guard
Accumula	or for lowering work equipment
Electric tra	nsducer
	I (N I)
Lower fra	ne under cover (Normal)

uel filler pump (50 L/min)	
Beacon lamp	
Safety lock valve for boom cylinder with overload wa	rning device
Safety lock valve for arm cylinder	
Single-acting piping kit (breaker, etc.)	
Double-acting piping kit (clamshell, etc.)	
Quick coupler	
Booms	
Heavy duty boom (7.06m, 23'2")	
Short boom (6.55m, 21'6")	
Long boom (9.0m, 29'6")	
Long reach boom (10m, 32'10")	
Arms	
Heavy duty arm (3.38m, 11'1")	
Super short arm (2.4m, 7'10")	
Short arm (2.9m, 9'6")	
Long arm (4.0m, 13'1")	
Long arm (5.85m, 19'2")	
Long reach arm (6.85m, 22'6")	
Counterweight	
10,200kg (22,490 lb)	
10,700kg (23,590 lb) 11,700kg (25,790 lb)	
, , , ,	
Climate control	
Wire net	
Fine net	
Cabin roof-steel cover	
Cabin lights	
Cabin front window rain guard	
Track shoes	
Triple grousers shoe (700mm, 28")	
Triple grousers shoe (750mm, 30")	
Triple grousers shoe (800mm, 32")	
Double grousers shoe (600mm, 24")	
Double grousers shoe (700mm, 28")	
Heavy duty track shoe (600mm, 24")	
Full track rail guard	
Full track rail guard Lower frame under cover (Additional)	
-	
Lower frame under cover (Additional)	
Lower frame under cover (Additional) Tool kit	
Lower frame under cover (Additional) Tool kit Operator suit	
Lower frame under cover (Additional) Tool kit Operator suit Rearview camera	
Lower frame under cover (Additional) Tool kit Operator suit Rearview camera Seat	
Lower frame under cover (Additional) Tool kit Operator suit Rearview camera Seat Adjustable air suspension seat	
Lower frame under cover (Additional) Tool kit Operator suit Rearview camera Seat Adjustable air suspension seat Adjustable air suspension seat with heater	
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	
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 Pattern change valve (2 patterns)	
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 Pattern change valve (2 patterns) Oil washed air cleaner	

* Materials and specifications are subject to change without advance notice.
* All imperial measurements rounded off to the nearest pound or inch.

MEMO