WEIGHT CHANGES

Tires or attachments	Operating weight		Tipping load straight 3990 mm Boom (3850 mm Boom)		Tipping load full turn 3990 mm Boom (3850 mm Boom)		Width over tires		Ground clearance		Change in vertical dimensions	
	kg	lb	kg	lb	kg	lb	mm	ft in	mm	ft in	mm	ft in
35/65-33-36PR(L-4)	**0**	0	**0 (0)**	0 (0)	**0 (0)**	0 (0)	**3540**	11'7"	**525**	1'9"	**0**	0'0"
35/65-33-36PR(L-5)	**+1000**	+2,205	**+715 (+745)**	+1,575(+1,640)	**+595 (+620)**	+1,310(+1,365)	**3540**	11'7"	**525**	1'9"	**0**	0'0"
35/65-33-42PR(L-4)	**+20**	+45	**+15 (+15)**	+30 (+35)	**+10 (+15)**	+25 (+30)	**3555**	11'8"	**525**	1'9"	**0**	0'0"
35/65-R33 ★(L-4)	**-780**	-1,720	**-555 (-580)**	-1230 (-1280)	**-465 (-485)**	-1025 (-1065)	**3565**	11'8"	**460**	1'6"	**-65**	-2'6"
35/65-R33 ★(L-5)	**-235**	-520	**-170 (-175)**	-375 (-390)	**-140 (-145)**	-310 (-320)	**3565**	11'8"	**460**	1'6"	**-65**	-2'6"
STD counterweight	**0**	0	**0 (0)**	0 (0)	**0 (0)**	0 (0)						
OPT counterweight	**+1000**	+2,205	**+2380 (+2480)**	+5,245(+5,465)	**+1985 (+2065)**	+4,370(+4,555)						

STANDARD EQUIPMENT

- 2-spool valve for boom and bucket controls
- **3990 mm** 13'1" boom
- Alternator, 90 A/24 V
- Auto air conditioner
- Auto shift transmission with mode select system
- Back-up alarm
- Back-up lamp
- Batteries, 200 Ah/12 V x 2
- Boom kick-out
- Bucket positioner
- Directional signal
- Emergency steering (SAE)
- Engine, Komatsu SAA6D170E-5 diesel
- EPC fingertip control levers with automatic leveler and positioner
- Floormat
- Front fender
- Hard water area arrangement (corrosion resister)
- Hydraulic-driven fan with reverse rotation
- Lift cylinders and bucket cylinder
- Lock-up clutch torque converter
- Main monitor panel with EMMS (Equipment Management Monitoring System)
- Radiator mask, lattice type
- Rear access stairs
- Rear defroster (electric)
- Rear under view mirror
- Rearview mirrors
- Rear window washer and wiper
- ROPS/FOPS cab
- Seat belt
- Seat, suspension type with reclining
- Service brakes, wet disc type
- Standard counterweight
- Starting motor, **11.0 kW**/24 V x 2
- Steering wheel, tiltable
- Sun visor
- Tires (35/65-33-36PR L4 tubeless) and rims
- Transmission, 4 forward and 4 reverse
- Water separator

OPTIONAL EQUIPMENT

- **3850 mm** 12'8" boom
- 3-spool valve
- AJSS (advanced Joystick Steering System)
- AM/FM radio
- AM/FM stereo radio cassette
- Automatic greasing
- Battery disconnect switch
- Brake cooling system
- Bucket teeth (bolt-on type)
- Bucket teeth (tip type)
- Counterweight for log
- Cutting edge (bolt-on type)
- ECSS (Electronically Controlled Suspension System)
- Fire extinguisher
- Limited slip differential (F&R)
- Load meter
- Log grapple
- Optional counterweight
- Ordinary spare parts
- Power train guard
- Rear fender
- Segment edges
- Semi-auto digging system
- Tool kit
- VHMS (Vehicle Health Monitoring System)

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HORSEPOWER
Gross: 396 kW 530 HP @ 1800 rpm
Net: 393 kW 527 HP @ 1800 rpm

BUCKET CAPACITY
6.4–7.0 m³ 8.4-9.2 yd³

KOMATSU®

WA600-6

ecot3

WA 600

WHEEL LOADER

Photo may include optional equipment.

HORSEPOWER
Gross: 396 kW 530 HP @ 1800 rpm
Net: 393 kW 527 HP @ 1800 rpm

BUCKET CAPACITY
6.4–7.0 m³ 8.4-9.2 yd³

WALK-AROUND

High Productivity & Low Fuel Consumption

- High performance SAA6D170E-5 engine
- Low fuel consumption
- Dual-mode engine power select system
- Automatic transmission with shift timing select system
- Lock-up Torque Converter
- Variable displacement piston pump & CLSS
- Increased bucket capacity
- Long wheelbase

See pages 4 and 5.

Excellent Operator Environment

- Automatic transmission with ECMV
- Low-noise designed cab
- Electronic controlled transmission lever
- Modulated clutch system
- Engine RPM set system with auto decel (Optional)
- "EPC" (Electronic Pilot Control) levers
- Pillar-less large ROPS/FOPS integrated cab
- Easy entry/exit, front-hinged door
- "AJSS" (Advanced Joystick Steering System) (Optional)

See pages 8 and 9.

Increased Reliability

- Reliable Komatsu designed and manufactured components
- Sturdy main frame
- Maintenance-free, fully hydraulic, wet disc service and parking brakes
- Hydraulic hoses use flat face O-ring seals
- Cathion electrodeposition process is used to apply primer paint
- Powder coating process is used to apply main structure paint
- Sealed DT connectors for electrical connections

See page 6.

Photo may include optional equipment.

Harmony with Environment

- Meets EPA Tier 3 and EU Stage 3A emission regulations
- Low exterior noise
- Low fuel consumption

Easy Maintenance

- "EMMS" (Equipment Management Monitoring System)
- "VHMS" (Vehicle Health Monitoring System) (Optional)
- Ease of radiator cleaning
- Modular radiator core system

See page 7.

HIGH PRODUCTIVITY AND LOW FUEL CONSUMPTION

High Performance SAA6D170E-5 Engine

Electronic Heavy Duty Common Rail fuel injection system provides optimum combustion of fuel.
This system also provides fast throttle response to match the machine's powerful tractive effort and fast hydraulic response.

Net: 393 kW 527 HP

Low Emission Engine

This engine meets EPA Tier 3 emission regulations and EU Stage 3A emission regulations, without sacrificing power or machine productivity.

Low Fuel Consumption

The fuel consumption is reduced greatly because of the low-noise, high-torque engine and the large-capacity torque converter with maximum efficiency in the low-speed range.

Dual-Mode Engine Power Select System

This wheel loader offers two selectable operating modes—E and P. The operator can adjust the machine's performance with the selection switch.

- **E Mode:** This mode provides maximum fuel efficiency for general loading.
- **P Mode:** This mode provides maximum power output for hard digging operation or hill climb.

The eco indicator will help an operator to promote energy saving.

Automatic Transmission with Mode Select System

This operator controlled system allows the operator to select manual shifting or two levels of automatic shifting (low, and high).
Auto L mode is for fuel saving operation with the gear shift timing set at lower speeds than Auto H mode. Therefore Auto L mode keeps the engine in a relatively low rpm range for fuel conservation while yielding adequate tractive force by depressing the accelerator pedal.

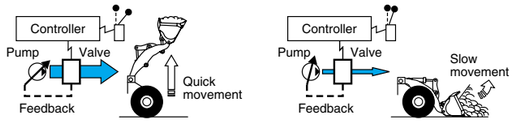
Lock-up Torque Converter

The Komatsu designed lock-up torque converter provides increased production efficiency, reduced cycle times and optimum fuel savings in load & carry or hill-climb operations. This optional feature allows the operator to activate the system on/off with a switch located on the right-side control panel.

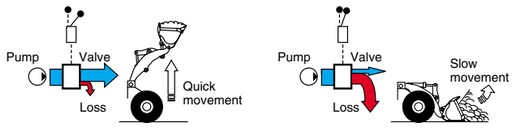
Variable displacement piston pump & CLSS

New design variable displacement piston pump combined with the Closed-center Load Sensing System delivers hydraulic flow just as the job requires preventing wasted hydraulic pressure. Minimized waste loss contributes to better fuel economy.

- **New Variable Displacement Piston Pump:** The pump delivers only necessary amounts minimizing waste loss.



- **Fixed Displacement Piston Pump:** The pump delivers the maximum amount at any time and the unused flow is disposed.



Increased Bucket Capacity matches with one class higher dump truck

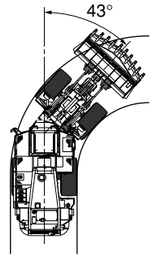
The WA600 can load 60t (70 Short ton) trucks with standard boom. The WA600-3 required an optional high lift boom and 6.4m³ bucket. The WA600-6 maintains good visibility for loading because of increased operator cab height.

Dumping Clearance: 3995 mm 13'1"
Dumping Reach: 1800 mm 5'11"
(**6.4 m³** 8.4 yd³ spade nose bucket with tooth)

Long Wheelbase/Articulation Angle of 43˚

The widest tread in class and the long wheelbase provide improved machine stability in both longitudinal and lateral directions. Since the articulation angle is 43˚, the operator can work efficiently even in the tightest job sites.

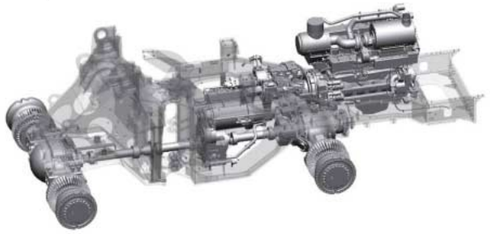
Tread	**2650 mm**	8'8"
Wheelbase	**4500 mm**	14'9"
Minimum turning radius (center of outside tire)	**7075 mm**	23'3"



INCREASED RELIABILITY

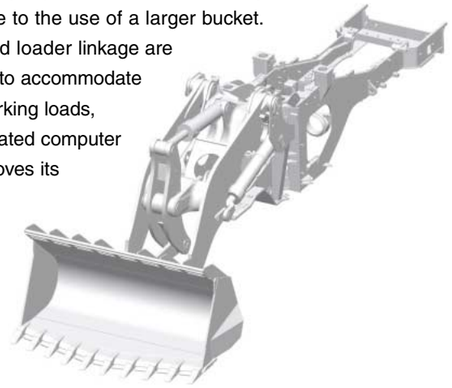
Komatsu Components

Komatsu manufactures the engine, torque converter, transmission, hydraulic units, electric parts, on this wheel loader. Komatsu loaders are manufactured with an integrated production system under a strict quality control system.



High-rigidity Frames and Loader Linkage

The front and rear frames and the loader linkage have more torsional rigidity to secure resistance against increased stress due to the use of a larger bucket. Frame and loader linkage are designed to accommodate actual working loads, and simulated computer testing proves its strength.

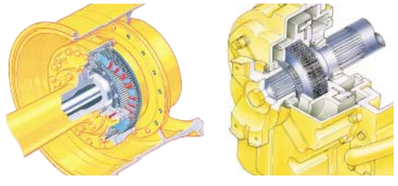


Wet multi-disc brakes and fully hydraulic braking system

mean lower maintenance costs and higher reliability. Wet disc brakes are fully sealed. Contaminants are kept out, reducing wear and maintenance. Brakes require no adjustments for wear, meaning even lower maintenance. The new parking brake is also an adjustment-free, wet multi-disc for high reliability and long life.

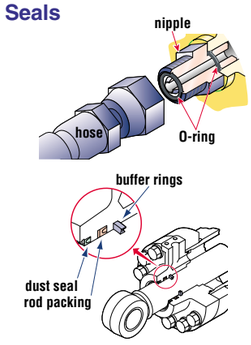
Added reliability is designed into the braking system by the use of two independent hydraulic circuits. Provides hydraulic backup should one of the circuits fail.

Fully hydraulic brakes mean no air system to bleed, or the condensation of water in the system that can lead to contamination, corrosion, and freezing.



Flat Face-to-Face O-Ring Seals

Flat face-to-face O-ring seals are used to securely seal hydraulic hose connections and to prevent oil leakage. In addition, buffer rings are installed to the head side of the all-hydraulic cylinders to lower the load on the rod seals and maximize the reliability.

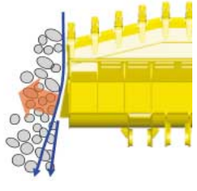


Cathion Electrodeposition Primer Paint/ Powder Coating Final Paint

Cathion electrodeposition paint is applied as a primer paint and powder coating is applied as topcoat to the exterior sheet metal parts. This process results in a beautiful rust-free machine, even in the most severe environments. Some external parts are made of plastic providing long life and high impact resistance.

Sweeper Wing (Large size Tire Guard)

To prevent tire damage, the WA600 provides a Sweeper Wing (Large size Tire Guard) on both sides of bucket.



Sealed DT Connectors

Main harnesses and controller connectors are equipped with sealed DT connectors providing high reliability, water resistance and dust resistance.

EASY MAINTENANCE

Photo may include optional equipment.

EMMS (Equipment Management Monitoring System)

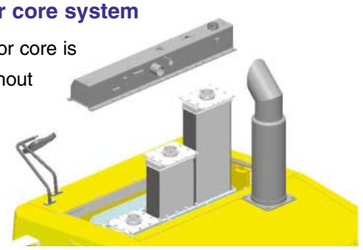
Monitor is mounted in front of the operator for easy viewing, allowing the operator to easily check gauges and warning lights.

Maintenance Control and Troubleshooting Functions

- **Action code display function:** If abnormality occurs, the monitor displays action details on the character display at the bottom center of the monitor.
- **Monitor function:** Controller monitors engine oil level, pressure, coolant temperature, air cleaner clogging, etc. If controller finds abnormalities, the error is displayed on LCD.
- **Replacement time notice function:** Monitor informs replacement time of oil and filters on LCD when replacement intervals are reached.
- **Trouble data memory function:** Monitor stores abnormalities for effective troubleshooting.

Modular radiator core system

The modular radiator core is easy to replace without removing the entire radiator assembly.

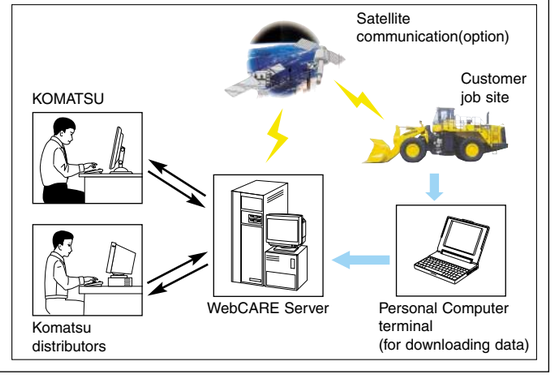


Ease of Radiator Cleaning

If the machine is operating in adverse conditions, the operator can reverse the hydraulic cooling fan from inside the cab by turning a switch on the control panel.

VHMS (Vehicle Health Monitoring System) (Optional)

VHMS is a management system for large equipment for use in mining, which enables detailed monitoring of fleet via satellite communications. Komatsu and distributors can analyze “vehicle health” and other operating conditions and provide the information to job site using the internet from a remote location on a near-real time basis.



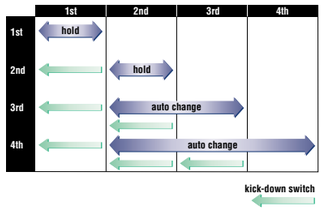
OPERATOR ENVIRONMENT

Easy Operation

Automatic Transmission with ECMV

Automatic transmission with ECMV automatically selects the proper gear speed based on travel speed, engine speed, and other travel conditions. The ECMV (Electronically Controlled Modulation Valve) system engages the clutch smoothly to prevent lags and shocks when shifting. This system provides efficient machine operation and a comfortable ride.

- **Kick-down switch:** Consider this valuable feature for added productivity. With the touch of a finger, the kick-down switch automatically downshifts from second to first when beginning the digging cycle. It automatically upshifts from first to second when the direction control lever is placed in reverse. This results in increased rim pull for better bucket penetration and reduced cycle times for higher productivity.



- **Hold switch:** Auto shift is selected and if the operator turns on this switch when the lever is at the 3rd or 4th gear speed position, the transmission is fixed to that gear speed.

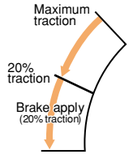
Electronic Controlled Transmission Lever

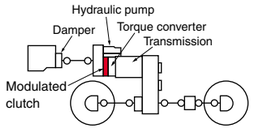
Easy shifting and directional changes with Komatsu two-lever electronic shifting. Change direction or shift gears with a touch of the fingers without removing the shifting hand from the steering wheel. Solid state electronics and conveniently located direction and gear shift controls make this possible. Automatic shifts in ranges two through four keep production high and manual shifting at a minimum.

Modulated Clutch System

The Modulated Clutch System controls the tractive effort with left brake pedal from 100% to 20% of the converter output torque.

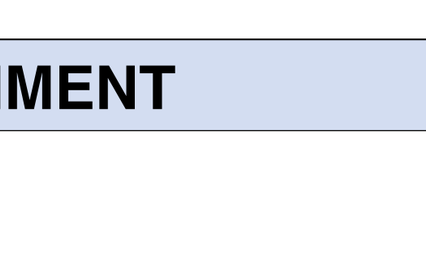
- Useful for smooth speed reduction when approaching dump trucks for loading.
- Easy control of tire slippage.
- Reduction of shocks in shifting from forward to reverse.





Engine RPM Set System with Auto Decel (Optional)

Engine Low idle RPM can be easily preset using a push button switch. The system provides auto decel for better fuel consumption.



1:ECSS 2:Remote Boom positioner switch
3:Remote bucket digging angle control switch
4:RPM set (On/Off) (option) 5:RPM idle set (option)
6:Semi-auto digging system (option) 7:Boom control 8:Bucket control

Steering wheel with Telescopic/Tilt Column

The operator can tilt and telescope the steering column to provide a comfortable working position.

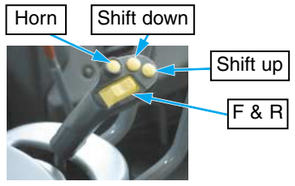
EPC (Electronic Pilot Control) levers

The finger control EPC work equipment levers have light operating effort and short stroke facilitating easy operation. The operator's comfort is further increased by the full large size adjustable arm rests. Combined with CLSS, this system allows the following new functions for easy and efficient operation:

- **Remote Boom Positioner with shockless stop function:** The highest and lowest position of the bucket can be set from cab to match any truck body. Once the positioner is set, the bucket is smoothly stopped at desired position with no shock.
- **Remote bucket digging angle control:** The digging bucket angle can be easily set from cab to match of ground condition.
- **Semi-auto digging system (option):** Bucket tilt operation can be automatically done when digging.

AJSS (Advanced Joystick Steering System) (Optional)

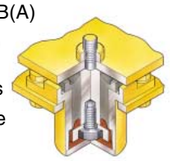
AJSS is a feedback steering system which has been incorporated to allow steering and forward and reverse selection to be controlled by wrist and finger control. With the feedback function added, the machine steering angle is defined exactly the same angle as the lever tilt angle.



Comfortable Operation

Low-noise Design

Noise at operator's ear noise level : 76 dB(A)
Dynamic noise level (outside): 113 dB(A)



The large cab is mounted with Komatsu's unique ROPS/FOPS viscous mounts. The low-noise engine, hydraulically driven fan, and hydraulic pumps are mounted with rubber cushions, and the cab sealing is improved to provide a quiet, low-vibration, dustproof pressurized, and comfortable operating environment. Also, exterior noise is lowest in this class.

Pillar-less Large Cab

A wide pillar-less flat glass provides excellent front visibility. The wiper arm covers a large area to provide great visibility even on rainy days.

The cab area is the largest in its class providing maximum space for the operator.

Rear Access Stairs

For the purpose of safely boarding and exiting machine, rear access stairs with safety handrail is provided.
The step width, clearance, and the step angle have been designed for safety climbing both up and down. A step light provides light for night boarding.

SPECIFICATIONS

ENGINE

Model . . . . . .Komatsu SAA6D170E-5
Type . . . . . .Water-cooled, 4-cycle
Aspiration . . . . . .Turbocharged, aftercooled, cooled EGR
Number of cylinders 6
Bore x stroke . . . . . .**170 mm x 170 mm** 6.69" x 6.69"
Piston displacement . . . . . .**23.15 ltr** 1413 in³
Governor . . . . . .all-speed, electronic
Horsepower
SAE J1995 . . . . . .Gross **396 kW** 530 HP
ISO 9249/SAE J1349* . . . . . .Net **393 kW** 527 HP
Rated rpm . . . . . .1800 rpm
Fan drive method for radiator cooling . . . . . .Hydraulic
Fuel system . . . . . .Direct injection
Lubrication system:
Method . . . . . .Gear pump, force-lubrication
Filter . . . . . .Full-flow type
Air cleaner . . . . . .Dry type with double elements and dust evacuator, plus dust indicator

*Net horsepower at the maximum speed of radiator cooling fan is 374 kW 502 HP.

TRANSMISSION

Torque converter:
Type . . . . . .3-element, single-stage, double-phase
Transmission:
Type . . . . . .Full-powershift, planetary type
Travel speed: **km/h** mph
Measured with 35/65-33 tires

( ) : Look-up clutch ON

	1st	2nd	3rd	4th
Forward	**6.7** 4.2	**11.7** 7.3	**20.3** 12.6	**33.8** 21.0
	—	(**12.4** 7.7)	(**21.7** 13.5)	(**37.7** 23.4)
Reverse	**7.3** 4.5	**12.8** 8.0	**22.0** 13.7	**37.0** 23.0

AXLES AND FINAL DRIVES

Drive system . . . . . .Four-wheel drive
Front . . . . . .Fixed, full-floating
Rear . . . . . .Center-pin support, full-floating, 26° total oscillation
Reduction gear . . . . . .Spiral bevel gear
Differential gear . . . . . .Conventional type
Final reduction gear . . . . . .Planetary gear, single reduction

BRAKES

Service brakes . . . . . .Hydraulically actuated, wet disc brakes actuate on four wheels
Parking brake . . . . . .Wet disc brake
Emergency brake . . . . . .Parking brake is commonly used

STEERING SYSTEM

Type . . . . . .Articulated type, full-hydraulic power steering
Steering angle . . . . . .43° each direction
Minimum turning radius at the center of outside tire . . . . . .**7075 mm** 23'3"

HYDRAULIC SYSTEM

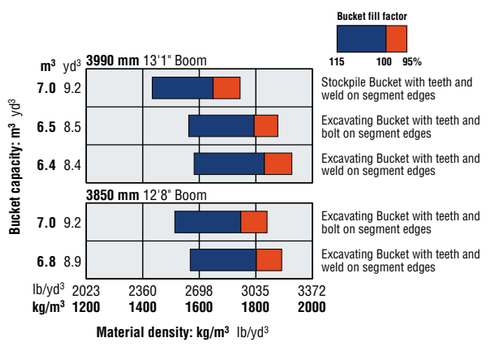
Steering system:
Hydraulic pump . . . . . .Piston pump
Capacity . . . . . .**163 ltr/min** 43.1 U.S. gal/min at rated rpm
Relief valve setting . . . . . .**34.3 MPa** 350 kgf/cm² 4,980 psi
Hydraulic cylinders:
Type . . . . . .Double-acting, piston type
Number of cylinders 2
Bore x stroke . . . . . .**115 mm x 510 mm** 4.5" x 20"

Loader control:
Hydraulic pump . . . . . .Piston pump
Capacity . . . . . .**239 + 239 ltr/min** 63.1 + 63.1 U.S. gal/min at rated rpm
Relief valve setting . . . . . .**34.3 MPa** 350 kgf/cm² 4,980 psi
Hydraulic cylinders:
Type . . . . . .Double-acting, piston type
Number of cylinders—bore x stroke:
Boom cylinder . . . . . .2- **200 mm x 1067 mm** 7.9" x 42"
Bucket cylinder . . . . . .1- **225 mm x 776 mm** 8.9" x 30.6"
Control valve . . . . . .2-spool type
Control positions:
Boom . . . . . .Raise, hold, lower, and float
Bucket . . . . . .Tilt-back, hold, and dump
Hydraulic cycle time (rated load in bucket)
Raise . . . . . .9.3 sec
Dump . . . . . .2.3 sec
Lower (Empty) . . . . . .4.1 sec

SERVICE REFILL CAPACITIES

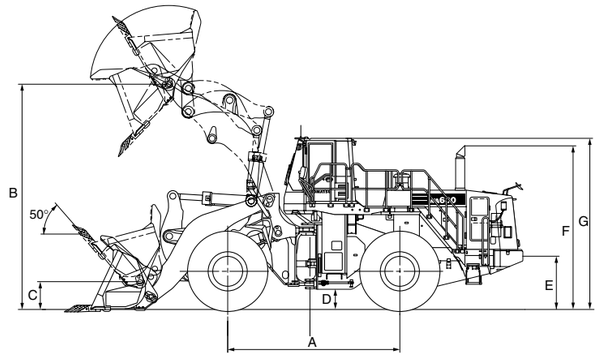
Cooling system . . . . . .**147 ltr** 38.8 U.S. gal
Fuel tank . . . . . .**718 ltr** 189.7 U.S. gal
Engine . . . . . .**86 ltr** 22.7 U.S. gal
Hydraulic system . . . . . .**443 ltr** 117.0 U.S. gal
Axle (each front and rear) . . . . . .**155 ltr** 41.0 U.S. gal
Torque converter and transmission . . . . . .**83 ltr** 21.9 U.S. gal

BUCKET SELECTION GUIDE



DIMENSIONS

Measured with 35/65-33-36PR(L-4) tires



		3990 mm 13'1" Boom	3850 mm 12'8" Boom
	Tread	2650 mm 8'8"	
	Width over tires	3540 mm 11'9"	
A	Wheelbase	4500 mm 14'9"	
B	Hinge pin height, max. height	5885 mm 19'3"	5665 mm 18'7"
C	Hinge pin height, carry position	720 mm 2'4"	670 mm 2'3"
D	Ground clearance	525 mm 1'9"	
E	Hitch height	1385 mm 4'7"	
F	Overall height, top of the stack	4270 mm 14'0"	
G	Overall height, ROPS cab	4460 mm 14'8"	

	3990 mm 13'1" Boom			3850 mm 12'8" Boom	
	Excavating Buckets		Stockpile Bucket	Excavating Buckets	
	Spade nose Teeth and WSE*1	Straight edge Teeth and BSE*2	Spade nose Teeth and WSE*1	Spade nose Teeth and WSE*1	Straight edge Teeth and BSE*2
Bucket capacity: heaped	**6.4 m³** 8.4 yd³	**6.5 m³** 8.5 yd³	**7.0 m³** 9.2 yd³	**7.0 m³** 9.2 yd³	**7.0 m³** 9.2 yd³
struck	**5.3 m³** 6.9 yd³	**5.4 m³** 7.1 yd³	**5.8 m³** 7.6 yd³	**5.8 m³** 7.6 yd³	**5.8 m³** 7.6 yd³
Bucket width	**3685 mm** 12'1"	**3685 mm** 12'1"	**3685 mm** 12'1"	**3685 mm** 12'1"	**3685 mm** 12'1"
Bucket weight	**5115 kg** 11,280 lb	**4735 kg** 10,440 lb	**5255 kg** 11,590 lb	**5245 kg** 11,570 lb	**4865 kg** 10,730 lb
Dumping clearance, max. height and 45° dump angle*3	**3995 mm** 13'1"	**4180 mm** 13'9"	**3945 mm** 12'11"	**3730 mm** 12'3"	**3905 mm** 12'10"
Reach at max. height and 45° dump angle*3	**1800 mm** 5'11"	**1610 mm** 5'3"	**1850 mm** 6'1"	**1885 mm** 6'2"	**1690 mm** 5'7"
Reach at 2130 mm (7') clearance and 45° dump angle	**3015 mm** 9'11"	**2875 mm** 9'5"	**3050 mm** 10'0"	**2900 mm** 9'6"	**2775 mm** 9'1"
Reach with arm horizontal and bucket level	**4135 mm** 13'7"	**3870 mm** 12'8"	**4205 mm** 13'9"	**4065 mm** 13'4"	**3800 mm** 12'6"
Operating height (fully raised)	**7925 mm** 26'0"	**7925 mm** 26'0"	**7995 mm** 26'3"	**7775 mm** 25'6"	**7775 mm** 25'6"
Overall length	**11985 mm** 39'4"	**11725 mm** 38'6"	**12055 mm** 39'7"	**11870 mm** 38'11"	**11610 mm** 38'1"
Loader clearance circle (bucket at carry, outside corner of bucket)	**17000 mm** 55'9"	**17060 mm** 56'0"	**17040 mm** 55'11"	**16875 mm** 55'4"	**16920 mm** 55'6"
Digging depth: 0°	**130 mm** 5.1"	**135 mm** 5.3"	**130 mm** 5.1"	**130 mm** 5.1"	**140 mm** 5.5"
10°	**515 mm** 1'8"	**480 mm** 1'7"	**530 mm** 1'9"	**530 mm** 1'9"	**495 mm** 1'7"
Static tipping load: straight	**34200 kg** 75,400 lb	**34580 kg** 76,240 lb	**34060 kg** 75,090 lb	**35400 kg** 78,040 lb	**35780 kg** 78,880 lb
43° full turn	**28500 kg** 62,830 lb	**28880 kg** 63,670 lb	**28360 kg** 62,520 lb	**29500 kg** 65,040 lb	**29880 kg** 65,870 lb
Breakout force	**387 kN** 39500 kgf 87,080 lb	**448 kN** 45680 kgf 100,710 lb	**375 kN** 38200 kgf 84,220 lb	**378 kN** 38600 kgf 85,100 lb	**433 kN** 44150 kgf 97,340 lb
Operating weight	**52700 kg** 116,180 lb	**52320 kg** 115,340 lb	**52840 kg** 116,490 lb	**52900 kg** 116,620 lb	**52500 kg** 115,740 lb

*1 Weld on segment edges. *2 Bolt on segment edges. *3 At the end of tooth or B.O.C.

All dimensions, weights, and performance values based on SAE J732c and J742b standards.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, and operator. Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Apply the following weight changes to operating weight and static tipping load.