

Distributor:	Linder Machinery
Item # 72	

KOMATSU PC170LC-11 BUILD SHEET

Engine and its related items:

Air cleaner, double element dry type with auto dust evacuator
Viscous fan clutch, suction, plastic blade, mixed flow, with fan guard
Komatsu SAA4D107E-2 Tier 4 final emissions certified engine
121 HP (89.9 kW) @ 2,100 rpm
KDOC (After treatment Assembly)
Variable flow turbocharger, water cooled with exhaust manifold cover
After-cooled with direct injection

Electrical system:

Alternator (85 Ampere / 24V)
Large capacity batteries (2 x 12V / 110 AH)
Starting motor (4.5 kW)
Working Lights (1 front RH side / 1 boom LH side)
Engine shutdown secondary switch
Battery master disconnect switch

Undercarriage:

24" (600mm) triple grouser shoes, with grease sealed
link assemblies (each side)
7 track / 2 carrier rollers (each side)
Hydraulic track adjusters (each side)
Track roller guard (each side)

Guards and Covers:

Revolving frame deck guard
Revolving frame undercovers
Carbody swivel guard
Pump / engine compartment partition
Removable debris screen for radiator and oil cooler
Low noise machine cover

Operator environment:

Cab, all weather sound suppression type with tinted safety
glass windows, pull-up type front window with lock device,
removable lower windshield, large ceiling hatch, lockable door,
cab-frame mounted intermittent window wiper and washer,
floor mat, cigarette lighter (24V), AM/FM radio, A/C with climate
control, heater and defroster, hot/cold storage box, antenna
Large 7" LCD high resolution color monitor panel
Working mode selection, Equipment Management Monitoring
System (EMMS) with self diagnostic system monitoring,
maintenance tracking and records, fault code memory storage,
energy saving advice, hydraulic flow adjustments for attachments
Access handrails for cab, side and rear of machine
Rearview mirrors, right and left side
High back, fully adjustable air suspension seat with double
slide mechanism with console mounted arm rests
Retractable seat belt, 3" width
Heated Seat
Auxiliary jack for auxiliary device or MP3 player
Operator Protective Guard (OPG) Level 1 (ISO) 10262 certified
ROPS cab (ISO 12117-2) certified
12 V accessory outlets (2)

BUCKET:

42" GP BKT with Teeth

Hydraulic controls:

HydrauMind system, full hydrostatic with closed center load
sensing (CLSS) and engine sensing with variable speed
matching control

Pump and engine I control system

Auto-idle shut down system
Automatic engine warm-up system
Engine overheat prevention system
Power maximizing system
Cushioned boom cylinders

1 axial piston swing motor with single stage relief valve
2 axial piston travel motors with counter balance valve
1 variable capacity piston pump with double outlet ports
7 spool control valve (boom, arm, bucket, swing, right travel,
left travel, and 1 service valve, (2 pump flow capacity)

Boom and arm holding valves

Control levers, adjustable wrist control levers for arm, boom,
bucket and swing with PPC system

Control levers and pedals for steering and travel with PPC system
Pattern change valve (ISO to BH control)

Drive and brake system

Brakes, hydraulic lock type travel brakes, oil disc type parking
and swing holding brake
Hydrostatic, 2 travel speed auto shift
double reduction type final drives

Special arrangements:

Cold area arrangement, -4°F (-20°C) through
+113°F (45°C) at sea level
Altitude arrangement (no fuel adjustment up to 2,300 m (7,545 ft)

Other Standard Equipment:

Counterweight, 6,063 lbs. (2,750 kg)
Electric horn
KOMTRAX 5.0 monitoring system
Marks and plates, English
Komatsu standard paint
Travel alarm
Provision for Vandalism protection (Padlocks not included)
Rearview monitoring system (1 camera)

KOMATSU®

PC170LC-11

Tier 4 Final Engine

HYDRAULIC EXCAVATOR



Photos may include optional equipment

NET HORSEPOWER

121 HP @ 2100 rpm
90 kW @ 2100 rpm

OPERATING WEIGHT

38,720–43,115 lb
17600–19598 kg

BUCKET CAPACITY

0.48–1.24 yd³
0.37–0.95 m³

PC170LC



POWER, CONTROL AND MORE LIFT CAPACITY

Two Counterweight Options Expand Versatility

The standard counterweight provides powerful lift capacity while permitting transport on a 40,000lb tag trailer. An optional heavy counterweight maintains stability and lift when the machine is equipped with a quick coupler, bucket, and thumb.

Enhanced Power Mode

Enhanced engine and hydraulic pump control logic improves multi-function speed for up to 6% improved productivity.

A powerful Komatsu SAA4D107E-3 engine provides a net output of 90 kW 121 HP. This engine is EPA Tier 4 Final emissions certified.

Water Cooled Variable Geometry Turbocharger helps improve durability and improves engine response under all speed and load conditions.

Temperature controlled viscous fan clutch helps improve fuel efficiency and reduce sound levels.

Komatsu Diesel Oxidation Catalyst (KDOC) reduces particulate matter using passive regeneration **over 98% of the time**.

Selective Catalytic Reduction (SCR) reduces NOx and has easy to access components.

Komatsu Auto Idle Shutdown helps reduce nonproductive engine idle time and reduces operating costs.

Komatsu's Closed-center Load Sensing System (CLSS) provides quick response and smooth operation to maximize productivity.

Six working modes are designed to match engine speed, pump output and system pressure to a wide range of applications.

Rearview monitoring system (standard)

Large LCD color monitor:

- 7" high resolution display
- Enhanced hydraulic attachment control with one way/two way flow and programmable work tool names and settings
- Rear view camera display integrated into the default monitor screen
- All machine settings and controls are easily accessible through the monitor

Aux jack and (2) 12V outlets

Equipment Management Monitoring System (EMMS) continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.

Wide access service doors provide easy access for ground level maintenance.



Enhanced working environment

- High back, heated, air suspension operator seat with adjustable arm rests
- Integrated ROPS cab design
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard
- Standard pattern change valve to switch from ISO to BH control pattern
- Aux jack and (2) 12V power outlets
- Auto climate control

Komatsu designed and manufactured components

New engine and hydraulic control technology work together to improve multifunction and productivity up to 6% with similar fuel efficiency as the PC170LC-10.

Handrails (standard) provide convenient access to the upper structure.

Battery disconnect switch allows a technician to disconnect the power supply before servicing the machine.

Operator Identification System records KOMTRAX machine operation and application data for up to 100 individual ID codes.

KOMTRAX®

The KOMTRAX® telematics system is standard on Komatsu equipment with no subscription-fees throughout the life of the machine. Using the latest wireless technology, KOMTRAX® transmits valuable information such as location, utilization, and maintenance records to a PC or smartphone app. Custom machine reports are provided for identifying machine efficiency and operating trends. KOMTRAX® also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.

KOMATSU PARTS & SERVICE SUPPORT



KOMATSU CARE

Program Includes:

*The PC170LC-11 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever occurs first.

Planned Maintenance Intervals at:

500/1000/1500/2000 hour intervals. (250 hr. initial interval for some products) Complimentary Maintenance Interval includes: Replacement of Oils & Fluid Filters with genuine Komatsu Parts, 50-Point inspection, Komatsu Oil & Wear Analysis Sampling (KOWA) / Travel & Mileage (distance set by distributor; additional charges may apply)

Benefits of Using Komatsu CARE

- Assurance of Proper Maintenance with OEM Parts & Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

Complimentary SCR System Maintenance

The PC170LC-11 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel Exhaust Fluid (DEF) system during the first 5 years or 9,000 hours whichever occurs first. The service includes factory recommended DEF tank flush & strainer cleaning at the suggested service intervals of 4,500 hours & 9,000 hours.

KOMATSU CARE PC170LC-11				
Interval PM	500	1000	1500	2000
KOWA SAMPLING – (Engine, Hydraulics, Swing Circle, L & R Final Drives)	✓	✓	✓	✓
LUBRICATE MACHINE	✓	✓	✓	✓
LUBRICATE SWING CIRCLE	✓	✓	✓	✓
CHECK SWING PINION GREASE LEVEL AND ADD, WHEN NECESSARY	✓	✓	✓	✓
CHANGE ENGINE OIL	✓	✓	✓	✓
REPLACE ENGINE OIL FILTER	✓	✓	✓	✓
REPLACE FUEL PRE-FILTER	✓	✓	✓	✓
REPLACE AC FRESH & RECIRC AIR FILTERS	✓	✓	✓	✓
CLEAN AIR CLEANER ELEMENT	✓	✓	✓	✓
DRAIN SEDIMENT FROM FUEL TANK	✓	✓	✓	✓
COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB	✓	✓	✓	✓
RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS	✓	✓	✓	✓
REPLACE MAIN FUEL FILTER		✓		✓
REPLACE DEF TANK BREATHER		✓		✓
REPLACE HYDRAULIC OIL FILTER ELEMENT		✓		✓
REPLACE HYDRAULIC TANK BREATHER ELEMENT		✓		✓
CHANGE SWING MACHINERY OIL		✓		✓
CHECK DAMPER CASE OIL LEVEL AND ADD, WHEN NECESSARY		✓		✓
CHANGE FINAL DRIVE OIL				✓
CLEAN HYDRAULIC TANK STRAINER				✓
REPLACE KCCV FILTER ELEMENT				✓
CHANGE DEF PUMP FILTER				✓
FACTORY TRAINED TECHNICIAN LABOR	✓	✓	✓	✓
2 SCR System Maintenance Services suggested at 4,500 Hrs. and 9000 Hrs.				

* Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility. Komatsu® and Komatsu Care® are registered trademarks of Komatsu Ltd. Copyright 2019 Komatsu America Corp.

Komatsu CARE® – Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs



Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

PC170LC-11

KOMTRAX EQUIPMENT MONITORING

GET THE WHOLE STORY WITH
KOMTRAX®

✓ WHAT

- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX **continuously monitors and records** machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history **lowering owning and operating cost**

✓ WHO

- KOMTRAX is **standard** equipment on all Komatsu construction products

✓ WHEN

- Knowing when machines are **running or idling** can help improve fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to **know when maintenance is due** and help you plan for future maintenance needs

✓ WHERE

- KOMTRAX data **can be accessed virtually anywhere** through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

✓ WHY

- Knowledge is power - **make informed decisions** to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- **Take control of your equipment** - any time, anywhere



KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus®

For production and mining class machines.

SPECIFICATIONS



ENGINE

Model.....	Komatsu SAA4D107E-3*
Type.....	Water-cooled, 4-cycle, direct injection
Aspiration.....	Variable Geometry Turbocharger (VGT), aftercooled, cooled EGR
Number of cylinders.....	4
Bore.....	107 mm 4.21"
Stroke.....	124 mm 4.88"
Piston displacement.....	4.46 ltr 272 in³
Horsepower:	
ISO 9249 / SAE J1349.....	Net 90 kW 121 HP
Fan at maximum speed.....	Net 85 kW 114 HP
Rated rpm.....	2100
Fan drive method for radiator cooling.....	Mechanical with viscous fan clutch
Governor.....	All-speed control, electronic
*EPA Tier 4 Final emissions certified	



HYDRAULICS

Type	HydrauMind (Hydraulic Mechanical Intelligence) system, closed-center system with load sensing valves and pressure compensated valves
Main pump:	
Type.....	Variable capacity piston type
Pumps for.....	Boom, arm, bucket, swing, and travel circuits
Maximum flow	298 ltr/min 78.7 gal/min
Hydraulic motors:	
Travel	2 x piston motors with parking brake
Swing	1 x axial piston motor with swing holding brake
Relief valve setting:	
Implement circuits	37.3 MPa 380 kg/cm ² 5,400 psi
Travel Circuit.....	37.3 MPa 380 kg/cm ² 5,400 psi
Swing circuit.....	28.9 MPa 295 kg/cm ² 4,195 psi
Pilot circuit.....	3.2 MPa 33 kg/cm ² 470 psi
Hydraulic cylinders:	
(Number of cylinders – bore x stroke x rod diameter)	
Boom ..	2–110 mm x 1175 mm x 75 mm 4.3" x 46.3" x 3.0"
Arm	1–120 mm x 1342 mm x 85 mm 4.7" x 52.8" x 3.3"
Bucket..	1–105 mm x 1027 mm x 70 mm 4.1" x 40.4" x 2.8"



DRIVES AND BRAKES

Steering control.....	Two levers with pedals
Drive method	Fully hydrostatic
Maximum drawbar pull	156 kN 15950 kgf 35,164 lbf
Gradeability.....	70%, 35°
Maximum travel speed: High.....	5.5 km/h 3.4 mph
Low	3.0 km/h 1.9 mph
Service brake	Hydraulic lock
Parking brake.....	Mechanical disc



SWING SYSTEM

Drive method	Hydraulic motor
Swing reduction.....	Planetary gear
Swing circle lubrication	Grease-bathed
Swing lock	Mechanical disc brake
Swing speed.....	12.0 rpm
Swing torque.....	4331 kg•m 31,314 ft lbs



UNDERCARRIAGE

Center frame.....	X-frame leg
Track frame.....	Box-section
Track type	Sealed
Track adjuster	Hydraulic
Number of shoes (each side)	44
Number of carrier rollers (each side)	2
Number of track rollers (each side)	7



COOLANT & LUBRICANT CAPACITY

Fuel tank	300 ltr 79.25 U.S. gal
Radiator	27.3 ltr 7.21 U.S. gal
Engine.....	18 ltr 4.8 U.S. gal
Final drive, each side.....	5.4 ltr 1.43 U.S. gal
Swing drive	4.5 ltr 1.2 U.S. gal
Hydraulic tank.....	121 ltr 32.0 U.S. gal
DEF tank	29.6 ltr 7.81 U.S. gal



SOUND PERFORMANCE

Exterior – ISO 6395.....	99 dB(A)
Operator – ISO 6396.....	68 dB(A)



OPERATING WEIGHT (APPROXIMATE)

Operating weight includes 5150 mm **16'11"** one-piece boom, 2610 mm **8'7"** arm, SAE heaped 0.95 m³ **1.24 yd³** bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-Grouser	Standard Counterweight		Heavy Counterweight	
	Operating Weight	Ground Pressure ISO 16754	Operating Weight	Ground Pressure ISO 16754
600 mm 24"	18508 kg 40,717 lb	43.86 kPa 0.45 kg/cm ² 6.36 psi	19098 kg 42,015 lb	45.26 kPa 0.46 kg/cm ² 6.56 psi
700 mm 28"	18708 kg 41,157 lb	38.0 kPa 0.39 kg/cm ² 5.51 psi	19298 kg 42,455 lb	39.2 kPa 0.4 kg/cm ² 5.69 psi
800 mm 31.5"	18908 kg 41,597 lb	33.61 kPa 0.34 kg/cm ² 4.87 psi	19498 kg 42,895 lb	34.66 kPa 0.35 kg/cm ² 5.03 psi

Component Weights

Arm including bucket cylinder and linkage

2610 mm 8'7" arm assembly	824 kg 1817 lb
2610 mm 8'7" arm assembly w/piping	878 kg 1936 lb
2900 mm 9'6" arm assembly.....	907 kg 2000 lb
2900 mm 9'6" arm assembly w/piping.....	963 kg 2123 lb

One piece boom including arm cylinder

5150 mm 16'11" boom assembly	1256 kg 2769 lb
5150 mm 16'11" boom assembly w/piping.....	1256 kg 2899 lb

Boom cylinders x 2	127 kg 280 lb
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Counterweight (standard)	2750 kg 6,063 lb
Counterweight (heavy)	3240 kg 7,143 lb

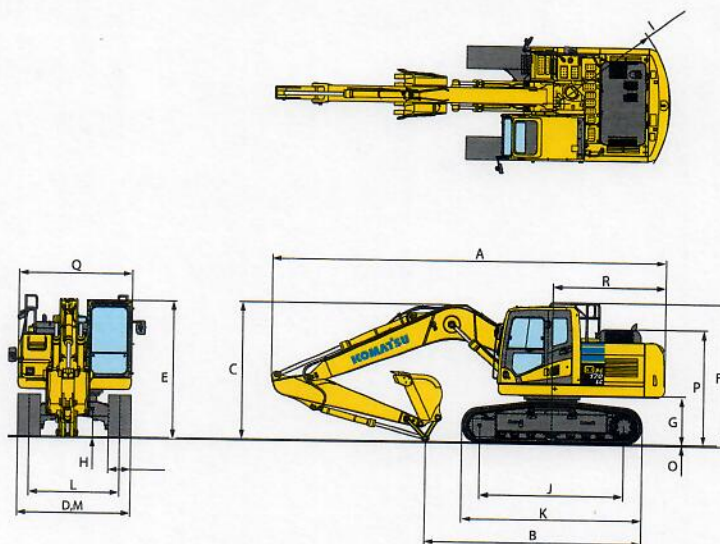
0.95 m ³ 1.24 yd³ bucket - 42" width	705 kg 1,554 lb
-------------------------------------------------------------------------	------------------------



DIMENSIONS

	Arm Length	2620 mm	8'7"	2900 mm	9'6"
A	Overall length	8690 mm	28'6"	8690 mm	28'6"
B	Length on ground (transport)	4760 mm	15'7"	4565 mm	15'0"
C	Overall height (to top of boom)*	3040 mm	9'11"	3140 mm	10'4"
D	Overall width	2590 mm	8'6"		
E	Overall height (to top of cab)*	3020 mm	9'11"		
F	Overall height (to top of handrail)	3110 mm	10'2"		
G	Ground clearance, counterweight	1055 mm	3'6"		
H	Ground clearance, minimum	440 mm	1'5"		
I	Tail swing radius	2545 mm	8'4"		
J	Track length on ground	3170 mm	10'5"		
K	Track length	3965 mm	13'0"		
L	Track gauge	1990 mm	6'6"		
M	Width of crawler (600 mm Shoe)	2590 mm	8'6"		
	(700 mm Shoe)	2690 mm	8'10"		
	(800 mm Shoe)	2790 mm	9'2"		
O	Grouser height	26 mm	0'1"		
P	Machine height to top of engine cover	2710 mm	8'10"		
Q	Machine upper width	2590 mm	8'6"		
R	Distance, swing center to rear end	2515 mm	8'3"		

* : Including grouser height



BACKHOE BUCKET, ARM AND BOOM COMBINATION

Bucket Type	Bucket						Arms	
	Capacity		Width		Weight		2.6 m (8'7")	2.9 m (9'6")
Komatsu TL	0.47 m ³	0.61 yd ³	610 mm	24"	506 kg	1,116 lb	V	V
	0.62 m ³	0.81 yd ³	762 mm	30"	568 kg	1,252 lb	V	V
	0.78 m ³	1.02 yd ³	914 mm	36"	660 kg	1,454 lb	W	X
	0.95 m ³	1.24 yd ³	1067 mm	42"	705 kg	1,554 lb	X	Y
Komatsu HP	0.37 m ³	0.48 yd ³	508 mm	20"	511 kg	1,126 lb	V	V
	0.47 m ³	0.61 yd ³	610 mm	24"	572 kg	1,260 lb	V	V
	0.62 m ³	0.81 yd ³	762 mm	30"	649 kg	1,431 lb	V	V
	0.78 m ³	1.02 yd ³	914 mm	36"	735 kg	1,620 lb	W	X
Komatsu HPS	0.95 m ³	1.24 yd ³	1067 mm	42"	806 kg	1,776 lb	Y	Y
	0.37 m ³	0.48 yd ³	508 mm	20"	563 kg	1,241 lb	V	V
	0.47 m ³	0.61 yd ³	610 mm	24"	635 kg	1,400 lb	V	V
	0.62 m ³	0.81 yd ³	762 mm	30"	729 kg	1,607 lb	V	W
	0.78 m ³	1.02 yd ³	914 mm	36"	831 kg	1,833 lb	X	X
	0.95 m ³	1.24 yd ³	1067 mm	42"	919 kg	2,027 lb	Y	Z

V - Used with material weights up to 3,500 lb/yd³

W - Used with material weights up to 3,000 lb/yd³

X - Used with material weights up to 2,500 lb/yd³

Y - Used with material weights up to 2,000 lb/yd³

Z - Not useable

COMMENTS: When using any quick coupler or other attachment equipment, there is an increased risk of the bucket hitting the cab.

*See the Operation & Maintenance Manual for detailed bucket installation instructions.



STANDARD EQUIPMENT

- Alternator, 85 Ampere, 24V
- AM/FM radio
- Automatic engine warm-up system
- Automatic climate control/air conditioner/heater/defroster
- Auxiliary input (3.5mm jack)
- Batteries, large capacity
- Battery disconnect switch
- Boom holding valve
- Converter, (2) x 12V
- Dry type air cleaner, double element
- Electric horn
- EMMS monitoring system
- Engine, Komatsu SAA4D107E-3
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure
- Fuel system pre-cleaner 10 micron
- High back air suspension seat, with heat
- Hydraulic track adjusters
- KOMTRAX® Level 5
- Large LCD color monitor, high resolution
- Lock lever
- Mirrors, (LH and RH)
- Operator identification function
- Operator Protective Top Guard (OPG), Level 1 (ISO 10262)
- Pattern change valve (ISO to BH control)
- PPC hydraulic control system
- Pump/engine room partition
- Radiator and oil cooler debris screen
- Rear reflectors
- Rearview monitoring system (1 camera)
- Revolving frame undercovers
- ROPS cab (ISO 12117-2)
- Seat belt, retractable, 76mm **3"**
- Seat belt indicator
- Secondary engine shutoff switch
- Service valve
- Shoes, triple grouser, 600 mm **24"**
- Skylight
- Slip resistant foot plates
- Starter motor, 4.5kW
- Suction fan with viscous clutch
- Track frame swivel guard
- Travel alarm
- Two speed travel with auto shift
- Working lights, 1 cab LH side/1 boom RH
- Working mode selection system



OPTIONAL EQUIPMENT

- Arms
 - 2900 mm **9'6"** arm assembly
 - 2610 mm **8'7"** arm assembly
 - 2900 mm **9'6"** arm w/ one actuator piping
 - 2610 mm **8'7"** arm w/ one actuator piping
- Boom
 - 5150 mm **16'11"** boom assembly
 - 5150 mm **16'11"** boom w/ one actuator piping
- Counterweight
 - 2750 kg **6,063 lb**
 - 3240 kg **7,143 lb**
- Cab guards
 - Full front guard, OPG Level 1
 - Full front guard, OPG Level 2
 - Bolt-on top guard, OPG Level 2
- Hydraulic control unit, 1 actuator
- Shoes, triple grouser, 700 mm **28"**
- Shoes, triple grouser, 800 mm **31.5"**
- Sun visor
- Rain visor



ATTACHMENT OPTIONS

- Buckets
- Hydraulic couplers
- Hydraulic kits, field installed
- Thumbs

For a complete list of available attachments, please contact your local Komatsu distributor.

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AD09(5M)OTP

08/19 (EV-5)

KOMATSU®

Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

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