**HORSEPOWER**

Gross: 323 kW 433 HP @ 1800 rpm

Net: 320 kW 429 HP @ 1800 rpm

**OPERATING WEIGHT**

65700–67800 kg 144,840–149,470 lb

Photo may include optional equipment.

**PC700LC-8R BACKHOE**

**HYDRAULIC EXCAVATOR**
One-class higher undercarriage to support operations in severe jobsites, PC700LC-8R is a large-sized hydraulic excavator having both high stability and durability.

**Productivity Features**
- **Large Drawbar Pull and Steering Force**
  Provide excellent mobility.
- **High Work Equipment Speed**
  Increased arm dumping speed and arm speed of compound operation by arm regeneration circuit realize efficient loading operation.
- **Two-mode Setting for Boom**
  Switch selection allows either powerful digging or smooth boom operation.
- **Large Digging Force**
  Pressing the Power Max function button temporarily increases the digging force 8%.
- **New Design Large SE Bucket**
  (optional for SE spec.)
  4.0m³ (5.2yd³) SE bucket is available.
  See page 5.

**Excellent Reliability and Durability**
- **Sturdy Undercarriage**
  One-class higher undercarriage having high reliability and durability.
- **Simple Frame Structure (Swing Circle Mount)**
- **Sturdy Guards**
- **Strengthened SE Boom and SE Arm (SE spec.)**
- **Strengthened Quarry Bucket and 4.0m³ SE Bucket**
- **KMAX Tooth**
- **Removed Water and Contamination in Fuel**
  • Fuel pre-filter with water separator
  • High efficiency fuel filter
  • Water separator
  See pages 6, 7.

**Maintenance Features**
- **Easy checking and maintenance of engine**
- **Long-life oil, filter**
- **Electric pump, grease gun with indicator (optional)**
- **Anti-slip plates**
- **Wide catwalk**
- **Steps connected to the machine cab**
- **Easy cleaning of cooling unit**
- **Easy detachable radiator and oil cooler**
  See page 11.

**Ecology and Economy Features**
- **High Power Komatsu SAA6D140E-5 Engine**
  A powerful, turbocharged and air-to-air aftercooled Komatsu SAA6D140E-5 provides 320 kW (429 HP).
- **Low Ambient Noise**
  • Electronically controlled variable speed fan drive
  • Large hybrid fan
  • Glasswool-furnished low-noise muffler and noise reducing cover around the muffler
  See pages 4, 5.

**Large TFT LCD Monitor**
- **Easy-to-see and use 7” large multi-function color monitor**
- **Can be displayed in 12 languages for global support.**
  TFT : Thin Film Transistor
  LCD : Liquid Crystal Display
  See page 10.

**Working Environment**
- **Large Comfortable Cab**
  • Low-noise design cab
  • Wide newly designed cab
  • Pressurised cab
  • Multi-position controls
  • Low vibrations with cab damper mounting
  • Automatic air conditioner (optional)
  • OPG top guard (optional)
  See pages 8, 9.
Economy Mode Four-level Setting
Enables operator to set the Economy mode to four levels according to working conditions so that production requirement is achieved at the lowest fuel consumption.

Eco-gauge that Assists Energy-saving Operations
Eco-gauge is equipped for environment friendly energy-saving operations. Operation in the green range allows reduction of CO₂ emission and fuel consumption.

High Work Equipment Speed
Work equipment speed and arm compound operation speed becomes greater with an arm quick return circuit and arm regeneration circuit.

Two-mode Setting for Boom
Smooth mode provides easy operation for gathering blasted rock and scraping operations. When maximum digging force is needed, switch to Power mode for more effective excavating.

Large Digging Force
With the addition of one-touch Power Max. function digging force is further increased. (8 seconds of operation)

New Design Large SE Bucket (optional for SE spec.)
Performance of scooping rocks and soil is improved by changing the shape of the bucket bottom.

Bucket capacity: 4.0m³ (5.2 yd³)
RELIABILITY & DURABILITY FEATURES

Sturdy Undercarriage
Travel performance and durability are increased with a one-class higher sturdy undercarriage, even in severe mining and quarry jobsites. High reliability greatly reduces the undercarriage repair cost as well as improves the operating ratio.

Strengthened Quarry Bucket and 4.0m³ SE Bucket (optional for SE spec.)
Prove Outstanding Wear-resistance.
The bucket for specific use in quarry is impact and wear resistant, providing high performance and long life. Koma-hard materials* provide excellent wear-resistance. Combined with adoption of long life KMAX tooth, durability of bucket is drastically enhanced.

* Koma-hard materials (KVX materials): Komatsu developed, wear-resistant, reinforced materials. Brinell hardness: 500 or more (180kgf/mm² class). Features high wear resistance and little quality change by the heat generated during rock loading, maintaining the hardness for a long term.

Metal Guard Rings
Metal guard rings protect all the hydraulic cylinders and improve reliability.

Sturdy guards
Shield the travel motors and piping against damage from rocks.

Strengthened Revolving Frame Underguard
Guards the machine piping against being hit by rocks from below and prevents hydraulic components and the engine from being damaged.

High-pressure In-line Filtration
The PC700LC-8R has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.

Fuel Pre-filter
Removes water and contaminants from fuel to enhance the fuel system reliability.

High Efficiency Fuel Filter
Fuel system reliability is even better with high efficiency fuel filter.

KMAX Tooth
• Unique bucket tooth shape for superior digging performance
• Long-term high sharpness
• Great penetration performance
• Hammerless, safe, and easy tooth replacement
(Tooth replacement time: Half of the conventional machine.)

High-tensile strength steel
Shroud: Enlarged

Fuel Pre-filter (with Water Separator)
Removes water and contaminants from fuel to enhance the fuel system reliability.

High-pressure In-line Filtration
The PC700LC-8R has the most extensive filtration system available, providing in-line filters as standard equipment. An in-line filter in the outlet port of each main hydraulic pump reduces failures caused by contamination.

Metal Guard Rings
Metal guard rings protect all the hydraulic cylinders and improve reliability.

Heat-resistant Wiring
Heat-resistant wiring is used for the engine electric circuit and other major component circuit.

Circuit Breaker
With circuit breaker, the machine can be easily restarted after repair.

DT-type Connectors
DT-type connectors seal tight and have higher reliability.

O-ring Face Seal
The hydraulic hose seal method has been changed from a conventional taper seal to an O-ring seal. This provides improved sealing performance during operation.
Multi-position Controls
The multi-position, PPC (proportional pressure control) levers allow the operator to work in comfort while maintaining precise control. A double-slide mechanism allows the seat and control levers to move together or independently, allowing the operator to position the controls for maximum productivity and comfort.

Automatic Air Conditioner
Optional air conditioner, air filter and a higher internal air pressure (+6.0 mm Aq +0.2”Aq) prevent external dust from entering the cab.

Low Noise Design Cab
The newly-designed cab is highly rigid and has excellent sound absorption. Improvements in noise source reduction combined with the use of a low noise engine, hydraulic equipment, and air conditioner allows the operator to work in quiet operating condition.

Wide Newly-designed Cab
Newly-designed wide spacious cab includes seat with reclining backrest. The seat height and longitudinal inclination are easily adjusted using a pull-up lever. You can set the appropriate operational position of the armrest and the console. The reclining seat further enables you to place it into the fully flat state with the headrest attached.

Low Vibration with Cab Damper Mounting
PC700LC-8R uses viscous damper mounts for the cab that incorporates longer stroke and the addition of a spring. The cab damper mounting combined with high rigidity deck aids vibration reduction at the operator’s seat.

Pressurized Cab
Optional air conditioner, air filter and a higher internal air pressure (+6.0 mm Aq +0.2”Aq) prevent external dust from entering the cab.

Safety Features
Step Light with Timer (optional)
Provides light for about one minute to allow the operator to get off the machine safely.

Pump/engine Room Partition
Prevents oil from spraying on the engine if a hydraulic hose should burst.

Thermal and Fan Guards
Are placed around high-temperature parts of the engine and fan drive.

Anti-slip Plates
Spiked plates on working areas provide anti-slip performance.

Horn Interconnected with Warning Light (optional)
Gives visual and audible notice of the excavator’s operation when activated.

Rear View Monitoring System (optional)
The operator can view the rear of the machine with a color monitor screen.

OPG Top Guard (optional)
OPG top guard Level 2 (by ISO 10262) capable with optional bolt-on top guard.
Large LCD Color Monitor

Large Multi-lingual LCD Monitor
A large user-friendly color monitor enables safe, accurate and smooth work. Improved screen visibility is achieved by the use of TFT liquid crystal display that can easily be read at various angles and lighting conditions. The switches are simple and easy to operate. Function keys facilitate multi-function operations. Displays data in 12 languages to support operators around the world.

Mode Selection
The multi-function color monitor has Power mode (two levels), Economy mode (four levels), and Lifting mode.

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>P (P0,P1)</td>
<td>Power Mode</td>
<td>Maximum production power, Fast cycle time</td>
</tr>
<tr>
<td>E (E0,E1,E2,E3)</td>
<td>Economy Mode</td>
<td>Good cycle time, Good fuel economy</td>
</tr>
<tr>
<td>L</td>
<td>Lifting Mode</td>
<td>Hydraulic pressure is increased 17%</td>
</tr>
</tbody>
</table>

EMMS (Equipment Management Monitoring System) Monitor Function
Controller monitors engine oil level, coolant temperature, battery charge and air clogging, etc. If controller finds any abnormality, it is displayed on the LCD.

Maintenance Function
Monitor informs replacement time for oil and filters when the replacement interval is reached.

Trouble Data Memory Function
Monitor stores abnormalities for effective troubleshooting.

Easy Checking and Maintenance of Engine
Engine check points are concentrated on one side of the machine to facilitate daily checks. Thermal guards are placed around high-temperature parts such as the turbocharger.

Long-life Oil, Filter
Uses high-performance filtering materials and long-life oil. Extends the oil and filter replacement interval.

Steps Connected to the Machine Cab
Steps allows access from left hand catwalk to top of machine for engine check and maintenance.

Easy Cleaning of Cooling Unit
Reverse-rotation function of the hydraulic driven fan simplifies cleaning out the cooling unit.

Anti-slip Plates
Spiked plates provided on top of the machine cab maintains anti-slip performance for a prolonged period.

Wide Catwalk
Easier, safer operator cab access and maintenance checks.

Long-life Oil, Filter
Engine oil & Engine oil filter every 500 hours
Hydraulic oil every 5000 hours
Hydraulic oil filter every 1000 hours

Electric Pump, Grease Gun with Indicator (optional)
Greasing is made easy with the electric pump and grease gun with indicator.

Easy Detachable Radiator and Oil Cooler
Engine hood opens fully to facilitate removal and installation of the radiator and oil cooler. The hood can be opened vertically by changing the position of the torsion bar.
PC700LC-8R HYDRAULIC EXCAVATOR

SPECIFICATIONS

ENGINE

Model: Komatsu SAA6D114E-5
Type: Water-cooled, 4-cycle, direct injection
Aspiration: Turbocharged, aftercooled
Number of cylinders: 6
Bore: 140 mm 5.51
Stroke: 165 mm 6.50
Piston displacement: 15.24 ltr 930 in³
Governor: All-speed, electronic
Horsepower: SAE J1995
Gross 329 kW 433 HP
Net 230 kW 308 HP
Rated rpm: 1800 rpm
Fan drive type: Hydraulic

HYDRAULIC SYSTEM

Type: Open-center load-sensing system
Number of selectable working modes: 3
Main pump: Variable-capacity piston pumps
Pumps for: Boom, arm, bucket, swing, and travel circuits
Maximum flow: 2 x 410 l/min 2 x 108 U.S. gal/min
Fan drive pump: Variable-capacity piston pump
Hydraulic motors: Travel: 2 x axial piston motor with parking brake
Swing: 2 x axial piston motor with swing holding valve

RELIEF VALVE SETTING

- Implement circuits:
  Backhoe: 31.9 bar 325 kgf/cm² 4,620 psi
  Travel circuit: 34.3 bar 350 kgf/cm² 4,980 psi
  Swing circuit: 25.5 bar 260 kgf/cm² 3,700 psi
  Pilot circuit: 2.0 bar 8 kgf/cm² 115 psi

Hydraulic cylinders:
- Hydraulic cylinder: (Number of cylinders—bore x stroke x rod diameter)
  Boom: 2 x 165 mm x 1725 mm x 120 mm 7.3" x 67.9" x 4.7
  Arm: 1 x 200 mm x 2045 mm x 140 mm 7.9" x 80.5" x 5.5
  SE: 1 x 200 mm x 2045 mm x 140 mm 7.9" x 80.5" x 5.5
  Bucket: 1 x 1425 mm x 130 mm 5.6" x 5.1
  SE: 1 x 1610 mm x 130 mm 6.3" x 5.1

SWING SYSTEM

Driver method: Planetary gear
Swing reduction: 1.8:1
Swing circle lubrication: Wet method
Swing lock: Off disc brake
Swing speed: 8.3 rpm

UNDERCARRIAGE

Center frame: H-leg frame
Track frame: Box-section
Seal of track: Sealed
Track adjuster: Hydraulic
No. of shoes: 1 each side
No. of carrier rollers: 3 each side
No. of track rollers: 8 each side

COOLANT AND LUBRICANT CAPACITY (REFILLING)

Fuel tank: 880 ltr 232.5 U.S. gal
Radiator: 58 ltr 15.3 U.S. gal
Engine: 40 ltr 10.6 U.S. gal
Final drive, each side: 10 ltr 2.6 U.S. gal
Swing drive: 2 x 13 ltr 2 x 3.4 U.S. gal
Hydraulic tank: 360 ltr 95.0 U.S. gal

OPERATING WEIGHT (APPROXIMATE)

PC700LC-8R:
Operation weight, including 7660 mm 252" boom, 3500 mm 116" arm, SAE heaped 2.8 m³ 3.56 yd³ backhoe bucket, operator, lubricant, coolent, full fuel tank, and the standard equipment.

PC700LC-8R HD spec.:
Operation weight, including 7300 mm 23'11" boom, 3500 mm 116" arm, SAE heaped 2.8 m³ 3.56 yd³ backhoe bucket, operator, lubricant, coolent, full fuel tank, and the standard equipment.

WORKING RANGE

PC700LC-8R

<table>
<thead>
<tr>
<th>STD</th>
<th>HD</th>
<th>SE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>7660 mm 25'2&quot;</td>
<td>7660 mm 25'2&quot;</td>
</tr>
<tr>
<td>Arm</td>
<td>4040 mm 15'10&quot;</td>
<td>4040 mm 15'10&quot;</td>
</tr>
<tr>
<td>B</td>
<td>Overall length</td>
<td>12000 mm 39'2&quot;</td>
</tr>
<tr>
<td>C</td>
<td>Overall height (to top of boom)</td>
<td>4350 mm 14'2&quot;</td>
</tr>
<tr>
<td>D</td>
<td>Overall width</td>
<td>4360 mm 14'2&quot;</td>
</tr>
<tr>
<td>E</td>
<td>Overall height (to top of bucket)</td>
<td>3475 mm 11'5&quot;</td>
</tr>
</tbody>
</table>

- G: Ground clearance, counterweights
- F: Ground clearance (minimum)
- G: Tail swing radius
- H: Track length on ground
- I: Track length
- J: Track gauge
- K: Track gauge when expanded
- L: Width of caterpillar
- M: Width of caterpillar when expanded
- N: Gross weight
- P: Machine cab height
- Q: Machine cab weight
- R: Distance, swing center to rear end

PC700LC-8R HD spec.

<table>
<thead>
<tr>
<th>STD</th>
<th>HD</th>
<th>SE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>7660 mm 25'2&quot;</td>
<td>7660 mm 25'2&quot;</td>
</tr>
<tr>
<td>Arm</td>
<td>3959 mm 13'10&quot;</td>
<td>4398 mm 14'11&quot;</td>
</tr>
</tbody>
</table>
| B | Max. digging depth | 8925 mm 29'1" | 9325 mm 30'6" | 10045 mm 33'1"
| C | Max. vertical wall | 264 kN 289 kN | 29100 kgf 31770 kgf |
| D | Operating weight | 29100 kgf 31770 kgf |
| E | Max. digging depth | 13760 mm 45'3" |
| F | Max. vertical wall when digging depth | 350 kgf/cm² 430 psi |
| G | Max. digging depth at full out | 15" |
| H | Max. digging weight | 8925 mm 29'1" |
| I | Max. digging weight SE | 264 kN 289 kN |
| J | Max. digging weight HD spec. | 29100 kgf 31770 kgf |
| K | Max. digging weight HD spec. SE | 13760 mm 45'3" |
| L | Max. digging weight at ground level | 29100 kgf 31770 kgf |
| M | Max. digging weight HD spec. at ground level | 10045 mm 33'1"

= with OPG top guard

Dimensions

Dimensions

<table>
<thead>
<tr>
<th>STD</th>
<th>HD</th>
<th>SE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>7660 mm 25'2&quot;</td>
<td>7660 mm 25'2&quot;</td>
</tr>
<tr>
<td>Arm</td>
<td>3959 mm 13'10&quot;</td>
<td>4398 mm 14'11&quot;</td>
</tr>
<tr>
<td>B</td>
<td>Overall length</td>
<td>12000 mm 39'2&quot;</td>
</tr>
<tr>
<td>C</td>
<td>Overall height (to top of boom)</td>
<td>4350 mm 14'2&quot;</td>
</tr>
<tr>
<td>D</td>
<td>Overall width</td>
<td>4360 mm 14'2&quot;</td>
</tr>
<tr>
<td>E</td>
<td>Overall height (to top of bucket)</td>
<td>3475 mm 11'5&quot;</td>
</tr>
</tbody>
</table>
### TRANSPORTATION GUIDE

**Boom Arm Bucket Shoes**

<table>
<thead>
<tr>
<th>Width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>14'1&quot;</td>
<td>4.8 m³</td>
</tr>
<tr>
<td>25'2&quot;</td>
<td>2.7 m³</td>
</tr>
</tbody>
</table>

**PC700LC-8R (HD spec.)**

<table>
<thead>
<tr>
<th>Width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>610 mm</td>
<td>0.7 m³</td>
</tr>
<tr>
<td>2.62 m³</td>
<td></td>
</tr>
<tr>
<td>2.1 m³</td>
<td></td>
</tr>
<tr>
<td>1.8 m³</td>
<td></td>
</tr>
<tr>
<td>1.8 m³</td>
<td></td>
</tr>
<tr>
<td>1.5 m³</td>
<td></td>
</tr>
</tbody>
</table>

**PC700LC-8R (HD spec.)**

<table>
<thead>
<tr>
<th>Width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>610 mm</td>
<td>0.7 m³</td>
</tr>
<tr>
<td>2.62 m³</td>
<td></td>
</tr>
<tr>
<td>2.1 m³</td>
<td></td>
</tr>
<tr>
<td>1.8 m³</td>
<td></td>
</tr>
<tr>
<td>1.8 m³</td>
<td></td>
</tr>
<tr>
<td>1.5 m³</td>
<td></td>
</tr>
</tbody>
</table>

---

### LIFTING CAPACITY

**PC700LC-8R**

- Reach from swing center
- Bucket hook height
- Lifting capacity
- Cf: Rating over front
- Cf*: Rating at maximum reach

**Base machine**

<table>
<thead>
<tr>
<th>Width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2 m³</td>
<td></td>
</tr>
<tr>
<td>4.0 t</td>
<td></td>
</tr>
</tbody>
</table>

**3 Kits Transportation**

- **Work equipment assembly (Backhoe)**
  - Weight: 12.38 t
  - Length: 24.3 U.S.ton

**4 Kits Transportation**

- **Work equipment**
  - Length: 22.28 (21.8 cm x 24.6 U.S.ton)

---

### Work Equipment

**PC700LC-8R**

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.8 m</td>
<td>7.5 m</td>
</tr>
</tbody>
</table>

**PC700LC-8R (HD spec.)**

<table>
<thead>
<tr>
<th>Width</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.8 m</td>
<td>7.5 m</td>
</tr>
</tbody>
</table>

---

*Use is limited by hydraulic capacity rather than lifting. Ratings are based on SAC standards. NO. JHKT. Rated loads do not exceed 97% of hydraulic lift capacity or 75% of lifting load.*
ENGINE AND RELATED ITEMS:
- Air cleaner, double element, dry
- Engine, Komatsu SAA6D140E-5
- Variable speed cooling fan, with fan guard

ELECTRICAL SYSTEM:
- Alternator, 56 amp, 24 V
- Auto deaccelerator and auto idling system
- Batteries, 170 Ah, 2 x 12 V
- Starting motors, 11kW
- Working lights 2 (boom and right front)

UNDERCARRIAGE:
- Hydraulic track adjusters (each side)
- Sealed track
- 8 track/0 carrier rollers (each side)
- 610 mm 24" double grouser
- Rock protectors
- Variable track gauge

GUARDS AND COVERS:
- Dust-proof net for radiator and oil cooler
- Pump/engine room partition cover
- Strengthened revolving frame underguard
- Travel motor guards

OPERATOR ENVIRONMENT:
- Cab with pull-up type front window
- Damper mount, all-weather, sound-suppressed cab with tinted safety glass windows, lockable door, intermittent window washer and washer, foammat, cigarette lighter and ashray
- Multi-function color monitor, fuel control dials, service meter, gauges (coolant temperature, hydraulic oil temperature and fuel level), caution lights (electric charge, engine oil pressure, and air cleaner clogging), indicator lights (engine preheating and swing lock), level check lights (coolant and engine oil level) and self-diagnostic system with trouble data memory
- Rear view mirror (RH and LH)
- Seat, fully adjustable with suspension

HYDRAULIC CONTROLS:
- Control levers and pedals for steering and travel with PPC system
- Control levers, wrist control levers for arm, boom, bucket, and swing with PPC system
- Control valves, 5+4 spoils (boom, arm, bucket, swing, and travel)
- Fully hydraulic, with Open-Center Load-Sensing (OLSS) and engine speed sensing (pump and engine mutual control system)
- In-line
- Lifting mode system
- Oil cooler
- One axial piston motor per track for travel with counter balance valve
- One gear pump for control circuit
- Power max function
- Two axial piston motors for swing with single-stage relief valve
- Two-mode setting for boom
- Two-variable capacity piston pumps

DRIVE AND BRAKE SYSTEM:
- Brakes, hydraulic lock travel brakes, oil disc parking
- Hydrostatic two travel speed system with planetary triple reduction final drive

OTHER STANDARD EQUIPMENT:
- Anti-slip plates
- Automatic swing holding brake
- Catwalk
- Counterweight, 10750 kg 23,700 lb
- Horn, electric
- Large handrails
- Marks and plates, English
- One-touch engine oil drainage
- Paint, Komatsu standard
- PM tune-up service connector
- Rear reflector
- Travel alarm
- Water separator

OPTIONAL EQUIPMENT:
- Alternator, 90 amp, 24 V
- Arms (Backhoe):
  - 3500 mm 11'6" arm assembly
  - 4300 mm 14'1" arm assembly
  - 5200 mm 17'1" arm assembly
- Automatic air conditioner
- Booms (Backhoe):
  - 7660 mm 25'2" boom assembly
- Cab front guard (ISO 10262 level 2)
- Cab with fixed front window
- Electric pump, grease gun with indicator
- 12V electric supply
- Fire extinguisher
- Full length track roller guard
- General tool kit
- Interconnected horn and warning light
- Large-capacity batteries
- Lower wiper
- OPG top guard
- Radio AM/FM
- Rain visor
- Rear view monitoring system
- Seat belt 78 mm 3", 50 mm 2"
- Service valve
- Shoes:
  - 710 mm 28" double grouser
  - 810 mm 32" double grouser
- Spare parts for first service
- Step light with timer
- Sun visor
- Tool frame undercover (center)
- Vandalism protection locks
- Working lights 2 (on cab)