# Komatsu Waste Solutions

**Waste Packages**

<table>
<thead>
<tr>
<th>Dozer Machines</th>
<th>Excavator Machines</th>
<th>Wheel Loader Machines</th>
</tr>
</thead>
<tbody>
<tr>
<td>D65EX-18</td>
<td>PC210LC-11</td>
<td>WA200-8</td>
</tr>
<tr>
<td>D65PX-18</td>
<td>D85PX-18</td>
<td>WA270-8</td>
</tr>
<tr>
<td>D65EX-18</td>
<td>D85EX-18</td>
<td>WA320-8</td>
</tr>
<tr>
<td>D155AX-8</td>
<td>PC360LC-11</td>
<td>WA380-8</td>
</tr>
<tr>
<td></td>
<td>PC390LC-11</td>
<td>WA470-8</td>
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<td></td>
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<td>WA480-8</td>
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<tr>
<td></td>
<td></td>
<td>WA500-8</td>
</tr>
</tbody>
</table>

*Photos may include optional equipment.*
WALK-AROUND

Photos may include optional equipment.
The KOMTRAX® telematics system is standard on Komatsu equipment with no subscription fees. 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.

Large LCD color monitor panel
- 7” high resolution display
- Rear view camera display integrated into the default monitor screen
- On-board diagnostics do not require use of a laptop computer
- Includes an ecology gauge and provides “Ecology Guidance” for greater fuel efficiency
- Easy-to-navigate menus allow operators to change settings, review machine performance records, and track periodic maintenance items.

Enhanced working environment
- Large, quiet, and pressurized cab
- Aux plug for audio player and two 12 volt connections
- High capacity, heated, air suspension seat

Variable Geometry Turbocharger (VGT) uses a hydraulic actuator to provide optimum airflow under all speed and loading conditions.

Diesel Particulate Filter (DPF) and Selective Catalytic Reduction (SCR) system reduces particulate matter and NOx while providing automatic regeneration that does not interfere with daily operation.

Fluid neutral or better
Total Fuel & DEF (Diesel Exhaust Fluid) is less than fuel consumed by the prior model.

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

Rearview monitoring system (standard) displays the area behind the machine onto the wide landscape view color monitor screen.

Komatsu Auto Idle Shutdown helps reduce non-productive engine idle time and reduces operating costs.

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

Photos may include optional equipment.
DOZER WASTE PACKAGE

**Trash Rack**
Ensures good operator visibility and increases blade capacity.

**Auto Reversing Fan**
Allows fan to auto reverse based on adjustable interval and duration.

**Relocated Hydraulic Cooler**
Moved to rear of machine to increase cooling efficiency.

**Track Shoe Holes**
Allows debris to be pushed through and reduces track compacting.

**Cab Air Pre-cleaner**
Removes large particles and extends the life of the cab air filter.

**Additional Sealing & Deflector Bars**
Chassis and door seals reduce amount of debris entering engine compartment. Deflector bars redirect larger debris.

**Powered Underguard**
Provides access to engine compartment to clean accumulated debris.
Engine Thermal Guard
Covers the exhaust manifold, KDPF, SCR system and hot side of the turbocharger, reducing the potential for combustible debris to come in contact with hot surfaces.

Relocated A/C Condenser
Mounted to the roof to protect it from debris and to increase cooling efficiency.

Engine Pre-cleaner
Blocks and removes large particles from the air before they reach the engine air filter.

Front and Rear Striker Bars
Reduces debris from riding up on the tracks and damaging the chassis.

Tank Guard
Protects the sides and rear of the fuel and hydraulic tank from damage and debris.

Additional LED Work Lights
Improves visibility over trash rack and guards protect the light bulbs from debris.

Final Drive Seal Guards
Provides an extra level of protection from wear and contamination due to debris. The clamshell design ensures a tight fit around the final drive housing used hardened hardware and bolt head protectors.

Rear Box
Optimizes machine balance and has bolt-on rear striker bars along with a hitch.

Photos may include optional equipment.
## Efficient Engine
- Diesel engine provides excellent fuel economy
- Tier 4 Final emissions certified

## Ergonomic Operator Controls
- Palm Command Control System (PCCS)
- Automatic/manual shift selectable mode

## Hydrostatic Steering System (HSS)
- Provides smooth power to both tracks when turning

### Engine Power, Operating Weight, Blade Capacity

<table>
<thead>
<tr>
<th>Model Type</th>
<th>Engine Power @ 1950 rpm</th>
<th>Operating Weight</th>
<th>Blade Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>D65EX-18 Semi-U</td>
<td>217 HP @ 1950 rpm</td>
<td>50,259 lb</td>
<td>14.8 yd³</td>
</tr>
<tr>
<td></td>
<td>162 kW @ 1950 rpm</td>
<td>22,797 kg</td>
<td>14.8 yd³</td>
</tr>
<tr>
<td>D65EX-18 Power Angle</td>
<td>217 HP @ 1950 rpm</td>
<td>53,076 lb</td>
<td>14.5 yd³</td>
</tr>
<tr>
<td></td>
<td>162 kW @ 1950 rpm</td>
<td>24,075 kg</td>
<td>14.5 yd³</td>
</tr>
<tr>
<td>D65PX-18 Straight Tilt</td>
<td>217 HP @ 1950 rpm</td>
<td>53,136 lb</td>
<td>12.9 yd³</td>
</tr>
<tr>
<td></td>
<td>162 kW @ 1950 rpm</td>
<td>24,102 kg</td>
<td>12.9 yd³</td>
</tr>
<tr>
<td>D65PX-18 Power Angle</td>
<td>217 HP @ 1950 rpm</td>
<td>56,337 lb</td>
<td>15.1 yd³</td>
</tr>
<tr>
<td></td>
<td>162 kW @ 1950 rpm</td>
<td>25,554 kg</td>
<td>15.1 yd³</td>
</tr>
<tr>
<td>D85EX-18 Semi-U</td>
<td>264 HP @ 1900 rpm</td>
<td>70,718 lb</td>
<td>18.4 yd³</td>
</tr>
<tr>
<td></td>
<td>197 kW @ 1900 rpm</td>
<td>32,077 kg</td>
<td>18.4 yd³</td>
</tr>
<tr>
<td>D85PX-18 Straight Tilt</td>
<td>264 HP @ 1900 rpm</td>
<td>69,860 lb</td>
<td>18.4 yd³</td>
</tr>
<tr>
<td></td>
<td>197 kW @ 1900 rpm</td>
<td>31,688 kg</td>
<td>18.4 yd³</td>
</tr>
<tr>
<td>D155AX-8 Semi-U</td>
<td>354 HP @ 1900 rpm</td>
<td>94,421 lb</td>
<td>26.8 yd³</td>
</tr>
<tr>
<td></td>
<td>264 kW @ 1900 rpm</td>
<td>42,828 kg</td>
<td>26.8 yd³</td>
</tr>
<tr>
<td>D155AX-8 Full-U</td>
<td>354 HP @ 1900 rpm</td>
<td>94,421 lb</td>
<td>33.2 yd³</td>
</tr>
<tr>
<td></td>
<td>264 kW @ 1900 rpm</td>
<td>42,828 kg</td>
<td>33.2 yd³</td>
</tr>
</tbody>
</table>

*Operating weight shown includes lubricant, coolant, full fuel tank, ROPS cab, and operator
**EXCAVATORS**

Photos may include optional equipment.

**Comfortable Working Space**
- Wide spacious, climate controlled, and pressurized cab

**Unrivaled hydraulic performance**
- Working mode selection allows for application optimization

**Durability**
- Large individual steel castings in boom foot, boom tip, and arm tip provide long term durability

**Serviceability**
- Easy access to centralized engine oil check points

<table>
<thead>
<tr>
<th>Model</th>
<th>Engine Power</th>
<th>Operating Weight</th>
<th>Max Lift Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC210LC-11</td>
<td>165 HP @ 2000 rpm</td>
<td>51,397 - 53,882 lb</td>
<td>40,850 lbs</td>
</tr>
<tr>
<td></td>
<td>123 kW @ 2000 rpm</td>
<td>23313 - 24440 kg</td>
<td>18500 kg</td>
</tr>
<tr>
<td>PC360LC-11</td>
<td>257 HP @ 1950 rpm</td>
<td>73,645 - 80,547 lb</td>
<td>45,280 lbs</td>
</tr>
<tr>
<td></td>
<td>192 kW @ 1950 rpm</td>
<td>35627 - 36535 kg</td>
<td>20540 kg</td>
</tr>
<tr>
<td>PC390LC-11</td>
<td>257 HP @ 1950 rpm</td>
<td>87,867 - 90,441 lb</td>
<td>44,700 lbs</td>
</tr>
<tr>
<td></td>
<td>192 kW @ 1950 rpm</td>
<td>39856 - 41023 kg</td>
<td>20250 kg</td>
</tr>
</tbody>
</table>

*Operating weight shown includes lubricant, coolant, full fuel tank, ROPS cab, and operator*
**EXCAVATOR WASTE PACKAGE**

**Chassis Seal Package**
Reduces the amount of debris entering the engine compartment.

**Engine Pre-Cleaner**
Removes large particulates from the engine air resulting in longer air filter life.

**Wide Core Cooling Package**
Reduces debris accumulation and keeps air flowing through the radiator, hydraulic oil cooler, AC condenser and charge air cooler.

**Auto Reversing Fan**
Keeps radiator clean and manual switch allows for regular purging of the radiator.

**Cab Air Pre-Cleaner**
Provides pre-cleaned, filtered air to the HVAC system and pressurizes the cab, reducing odors and extending HVAC filter life.
Corrugated and Perforated Screen Package
Maximizes effective open area for increased airflow to the coolers

Radiator Cleanout Access Cover
Allows access to the engine side of the radiator for cleaning through a removable cover with tethered knobs

Severe Duty Revolving Frame Under Covers
9 mm thick under covers protect vital internal machine components and include a hinged door for convenient debris removal

Operator Cab Guarding
OPG level 2 top and front guards are bolt-on options to a base ROPS cab that already meets OPG top guard level 1 requirements
**WHEEL LOADER WASTE PACKAGE**

**Bucket Cylinder Guard**
Protects the bucket cylinder rod from falling debris. Bucket position sensors and wiring protection available on WA270 & WA320

**Cooling Screens**
Increases effective open area for airflow while reducing amount of debris reaching the coolers

**Beacon Lamp & Additional Work Lights**
Cab is prewired for a roof-mounted beacon or strobe light. Switches for the beacon and rear lights are integrated into the dashboard

**Front Window Guard**
Provides an additional layer of protection to the window and operator from large debris

**Articulation Guard**
Protects components in the rear frame from debris and allows for full access to all daily maintenance points

**Front & Rear Light Guards**
Guards and protects front and rear lights from impact damage

Photos may include optional equipment.
**Rear Frame Underguard**
Protects the engine oil pan, oil drain and fuel tank drain while reducing amount of debris pulled into rear frame.

**Front Frame Underguard**
Reduces debris buildup and shields power train and hydraulic components. Hinged access panel for easy service access and cleanout.

**Axle Seal Guards**
Adjustable to ensure fit and reduces debris build up around shaft and seals.

**Fuel Tank Guard**
Encloses the exposed surfaces of the fuel tank to minimize damage and transfers impact forces into the rear frame and counterweight.

**Boom Cylinder Hose Guards**
Provides additional protection to the hydraulic hoses.

**Boom Cylinder Hose Wraps**
Protect the boom cylinder hoses from wear, abrasion, and cuts.

**Rear Frame Powertrain Underguard**
Protects the hydraulic pump, motors, and transfer case. Available on WA270 & WA320.

### WHEEL LOADERS – GUARDING OPTIONS PER MACHINE

<table>
<thead>
<tr>
<th>Description</th>
<th>WA200</th>
<th>WA270</th>
<th>WA320</th>
<th>WA380</th>
<th>WA470</th>
<th>WA480</th>
<th>WA500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Intake Guard (if fenders are removed)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Articulation Guard</td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Axle Seal Guards (4)</td>
<td>✓</td>
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<td>✓</td>
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<tr>
<td>Beacon Lamp Ready Switch</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Beacon Lamp with Additional Rear Lights (2)</td>
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<td>✓</td>
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<tr>
<td>Boom Cylinder Hose Guards (Plates)(2)</td>
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<td>✓</td>
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<tr>
<td>Boom Cylinder Hose Wraps (Wraps)(4)</td>
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<tr>
<td>Bucket Cylinder Guards (HL)</td>
<td>✓</td>
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<td>Bucket Cylinder Guards (STD)</td>
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<td>Cooling Screens (3)</td>
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<tr>
<td>Front Frame Underguard (2)</td>
<td>✓</td>
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<td>✓</td>
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<tr>
<td>Front Light Guards (2)</td>
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<td>✓</td>
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<td>Front Window Guard</td>
<td>✓</td>
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<tr>
<td>Fuel Tank Guard</td>
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<tr>
<td>Rear Frame Underguard</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Rear Frame Underguard, Powertrain</td>
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<td>✓</td>
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<tr>
<td>Rear Light Guard (2)</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>
Fuel Efficient Engine
- Tier 4 Final emissions certified engines provide exceptional performance while reducing fuel consumption

Low Noise Design
- Rubber mounting leads to a quiet, low-vibration, comfortable operating environment

Power Train Performance
- Komatsu’s large-capacity torque converter is optimized for efficiency and has improved acceleration

<table>
<thead>
<tr>
<th>Model</th>
<th>Engine Power @ Rpm</th>
<th>Operating Weight @ lb</th>
<th>Full Turn Tip Load @ lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA200-8</td>
<td>126 HP @ 2000 rpm</td>
<td>25,827 - 26,489</td>
<td>13,558 - 16,654</td>
</tr>
<tr>
<td></td>
<td>94 kW @ 2000 rpm</td>
<td>11715 - 12015</td>
<td>6150 - 7645</td>
</tr>
<tr>
<td>WA270-8</td>
<td>149 HP @ 2000 rpm</td>
<td>28,208 - 29,079</td>
<td>18,761 - 19,886</td>
</tr>
<tr>
<td></td>
<td>111 kW @ 2000 rpm</td>
<td>12795 - 13190</td>
<td>8510 - 9020</td>
</tr>
<tr>
<td>WA320-8</td>
<td>165 HP @ 2100 rpm</td>
<td>34,128 - 34,987</td>
<td>16,998 - 21,561</td>
</tr>
<tr>
<td></td>
<td>123 kW @ 2100 rpm</td>
<td>15480 - 15870</td>
<td>7710 - 9780</td>
</tr>
<tr>
<td>WA380-8</td>
<td>191 HP @ 2100 rpm</td>
<td>40,532 - 41,932</td>
<td>22,943 - 29,630</td>
</tr>
<tr>
<td></td>
<td>143 kW @ 2100 rpm</td>
<td>18385 - 19020</td>
<td>10407 - 13440</td>
</tr>
<tr>
<td>WA470-8</td>
<td>272 HP @ 2000 rpm</td>
<td>53,352 - 55,579</td>
<td>30,975 - 38,493</td>
</tr>
<tr>
<td></td>
<td>203 kW @ 2000 rpm</td>
<td>24200 - 25210</td>
<td>14050 - 17460</td>
</tr>
<tr>
<td>WA480-8</td>
<td>299 HP @ 2000 rpm</td>
<td>56,262 - 56,416</td>
<td>36,299 - 36,520</td>
</tr>
<tr>
<td></td>
<td>223 kW @ 2000 rpm</td>
<td>25520 - 25590</td>
<td>16465 - 16565</td>
</tr>
<tr>
<td>WA500-8</td>
<td>353 HP @ 1900 rpm</td>
<td>76,897 - 77,856</td>
<td>54,622 - 55,373</td>
</tr>
<tr>
<td></td>
<td>263 kW @ 1900 rpm</td>
<td>34880 - 35315</td>
<td>24776 - 25117</td>
</tr>
</tbody>
</table>

*Full turn tipping and operating weight shown includes lubricant, coolant, full fuel tank, ROPS cab, and operator
** Addition of guarding options and solid tires impact operating weight. Contact your local Komatsu dealer.
ARTICULATED TRUCKS

To fully maximize a waste fleet, consider Komatsu’s articulated trucks. When the terrain is challenging, and underfoot conditions are severe, customers count on Komatsu’s HM articulated truck model line and its Komatsu Traction Control System (KTCS). Payload management can be consistent and maximized through Komatsu’s Payload Meter (PLM) system that integrates with KOMTRAX.

INTELLIGENT MACHINE CONTROL DOZERS AND EXCAVATORS

Envision assimilating intelligent Machine Control technology into your fleet. Machines like the PC210LCi-11, PC360LCi-11, D65EXi-18, and D85EXi-18 can impact efficiency using GNSS to aid in cell design, and help monitor waste fill level. When capping a site, iMC machines can track top soil coverage to ensure compliance.
KOMATSU CARE®
Program Includes:
* Machines come 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 KDPF Exchanges
Machines comes standard with 2 complimentary KDPF exchange units for the first 5 years or 9,000 hours whichever occurs first. The suggested KDPF exchange unit service intervals are 4,500 hours & 9,000 hours. End user must have authorized Komatsu distributor perform the removal & installation of the KDPF.

Complimentary SCR Maintenance
Machines also include 2 factory suggested 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 suggested DEF tank flush & strainer cleaning at the suggested service intervals of 4,500 hours & 9,000 hours.

Komatsu CARE® – Advantage Extended Coverage
- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that affect 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 availability 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 maintains your equipment
- Maximizes availability and performance
- Can identify potential problems before they lead to major repairs
- Reduces life cycle cost by extending component life

* 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.
KOMTRAX EQUIPMENT MONITORING

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

WHEN
- Know when your machines are running or idling and make decisions that will improve your 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

WHO
- KOMTRAX is standard equipment on all Komatsu construction products

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.