**SPECIFICATIONS**

### ENGINE

<table>
<thead>
<tr>
<th>Make and model</th>
<th>Komatsu SSDA19V170</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>Diesel</td>
</tr>
<tr>
<td>Number of cylinders</td>
<td>18</td>
</tr>
<tr>
<td>Operating cycle</td>
<td>4 cycle</td>
</tr>
<tr>
<td>Gross horsepower</td>
<td>2611 kW 3,500 HP @ 1900 rpm</td>
</tr>
<tr>
<td>Net flywheel power</td>
<td>2495 kW 3,346 HP @ 1900 rpm</td>
</tr>
<tr>
<td>Weight (wet)</td>
<td>10100 kg</td>
</tr>
<tr>
<td>Net flywheel power*</td>
<td>10100 kg</td>
</tr>
</tbody>
</table>

*Net flywheel power is the rated power at the engine flywheel minus the average accessory losses. Accessories include fan and charging alternator.*

Power ratings above represent engine performance in accordance with SAE J1995 and J1349 conditions.

### ELECTRIC DRIVE

<table>
<thead>
<tr>
<th>AC CURRENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternator</td>
</tr>
<tr>
<td>Dual impeller in-line blower</td>
</tr>
<tr>
<td>Control</td>
</tr>
<tr>
<td>Motorized wheels*</td>
</tr>
<tr>
<td>Ratio**</td>
</tr>
<tr>
<td>Speed (maximum)</td>
</tr>
</tbody>
</table>

* Wheel motor application depends upon gross vehicle weight, haul road grade, haul road length, rolling resistance and other parameters. Komatsu and G.E. must analyze each job condition to assure proper application.

### TIRES AND RIMS

<table>
<thead>
<tr>
<th>Rock service, tubeless, radial tires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard tire*</td>
</tr>
<tr>
<td>Taper Lock</td>
</tr>
<tr>
<td>Rated at 758 kPa 110 psi cold inflation pressure for rims, 600 kPa 87 psi for tires.</td>
</tr>
</tbody>
</table>

* Tires should meet application requirements for kp/h/mph, tread, compound, inflation pressure, ply rating or equivalent, etc.

### BODY

All-welded steel flat floor body with horizontal bolsters and full canopy. Eyebrow, rear wheel rock ejectors, body up sling, and rubber mounts on frame are standard. Pivot exhaust heating optional.

| Floor sheet                      | 16 mm 0.63° 1379 MPa 200,000 psi tensile strength steel (two-piece) |
| Front sheet                      | 9 mm 0.35° 1379 MPa 200,000 psi tensile strength steel |
| Side sheet                       | 8 mm 0.31° 1379 MPa 200,000 psi tensile strength steel |
| Canopy sheet                     | 5 mm 0.19° 690 MPa 100,000 psi tensile strength steel |
| Standard SAE heaped              | 2.1                    |
| Standard Komatsu body weight     | 30362 kg 66,936 lb    |

* Komatsu must approve all bodies through a Body Application Worksheet.

### FRAME

Advanced technology, full butt-welded box sectional ladder-type frame with integral ROPS supports, integral front bumper, rear tubular cross members, steel castings at all critical stress transition zones, rugged continuous horsecollar.

| Plate material                   | 482.6 MPa 70,000 psi |
| Casting material                 | 620.5 MPa 90,000 psi |
| Rail width                       | 305 mm 12" |
| Rail depth (minimum)             | 864 mm 34" |
| Top and bottom plate thickness   | 45 mm 1.77" |
| Side plate thickness             | 25 mm 0.98" |
| Drive axle mounting              | Pin and spherical bushing |
| Drive axle alignment             | Swing link between frame and axle |

### BRAKING SYSTEM

Service brakes: oil-cooled, hydraulic-actuated, multiple disc brakes at each wheel. Traction system wheel slip/slide control.

| Max. service apply pressure       | 1.7237 kPa 2500 psi |
| Total friction area per brake     | 97025 cm² 15,038 in² |
| Secondary brakes                 | Automatically applied prior to hydraulic system pressure dropping below level required to meet secondary stopping requirements. |
| Wheel brake locks                 | Switch activated |
| Parking brakes                   | Multiple disc, spring-applied, hydraulically-released, dry brakes on inboard end of each wheel motor rotor shaft. Rated to hold on ±15% grade @ maximum gross vehicle weight. |
| Electric dynamic retarder        | Max 4026 kW 5400 hp |
| Continuous                       | 2909 kW 3900 hp |
| Continuously rated high-density blown grids w/retard at engine idle and retard in reverse propulsion. |

### SUSPENSION

Variable rate hydro-pneumatic with integral rebound control

| Max. front stroke                | 328 mm 12.92" |
| Max. rear stroke                 | 239 mm 9.40" |
| Max. rear axle oscillation       | ±6.5" |

* Rear suspensions are inverted.

### COOLING SYSTEM

L&M radiator assembly, split-flow, with deaeration-type top tank measuring 3277 mm x 2164 10'9" x 71".

### SERVICE CAPACITIES

| Cooling System                   | 719 L 190 U.S. gal |
| Crankcase*                       | 341 L 90 U.S. gal |
| Hydraulic system                 | 1325 L 350 U.S. gal |
| Motor gear box (each)            | 95 L 25 U.S. gal |
| Fuel                             | 5300 L 1400 U.S. gal |

* Includes lube oil filters.

Advanced Operator Environment with integral 4-post ROPS/FOPS structure (meets J1040 Apr88), adjustable air suspension seat w/lumber support and arm rests, passenger seat, maximum R-value insulation, tilt and telescoping steering wheel, electric windshield wipers/w/washer, tinted safety glass, power windows, Komatsu Payload Weighing System, 55,000 Btu/hr heater and defroster, 21,600 Btu/hr air conditioning (HFC - 134A refrigerant).
**ELECTRICAL SYSTEM**

4 x 8D and 2 x 30H, 220-ampere-hour batteries, bumper-mounted with disconnect switch.

- **Alternator**: 24 volt, 140 amp
- **Lighting**: 24 volt
- **Cranking motors**: Two/24 volt

**WEIGHT DISTRIBUTION**

- **Empty Vehicle**
  - Front axle: 104459 kg (230,293 lb) 48.5%
  - Rear axle: 110847 kg (244,377 lb) 51.5%
  - Total (wet, 100% fuel): 215307 kg (474,670 lb)

- **Loaded Vehicle at maximum GVW rating**
  - Front axle: 165956 kg (365,871 lb) 32.8%
  - Rear axle: 339649 kg (748,799 lb) 67.2%
  - Total: 505755 kg (1,115,000 lb)

**NOTE**: GVW shall not exceed 505755 kg (1,115,000 lb) including options, liners, fuel and payload, subject to application approval by Komatsu.

**NOTE**: Komatsu trucks comply with SAE specifications for cab noise, ROPS, steering and braking. Cover photos and illustrations may show optional equipment. Materials and specifications subject to change without notice.

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**DIMENSIONS**

All dimensions are with 218 m³ 285 yd³ body (optional body).

<table>
<thead>
<tr>
<th>Bodies</th>
<th>Struck</th>
<th>2:1 Heap</th>
<th><em>Loading Height</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>171 m³</td>
<td>224 yd³</td>
<td>211 m³</td>
</tr>
</tbody>
</table>

* Exact load height may vary due to tire make, type, and inflation pressure.

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**HYDRAULIC SYSTEM**

- **Steering**: Accumulator assisted with twin double acting cylinders provide constant rate steering. Secondary steering automatically supplied by accumulator.
- **Turning circle diameter (SAE)**: 29.7 m 97'7"
- **Reservoir**: 947 L 250 U.S. gal
- **Filtration**: Single, full flow, 100 mesh
- **Hoist and steering**: Dual, in-line, high pressure
- **Brake component cabinet**: Above deck, easily accessible with diagnostic test connections.
- **Hoist times**
  - Power-up loaded: 21 sec
  - Power-down: 23 sec
  - Float-down empty: 24 sec
- **Pumps**: Tandem gear pump with output of 1022 lpm 270 gpm at 1900 rpm and 17237 kPa 2,500 psi
- **Steering and brake**: Pressure-compensating axial piston pump with output of 246 lpm 65 gpm at 1900 rpm and 18961 kPa 2,750 psi

**System relief pressures**

- **Hoist and brake cooling**: 17237 kPa 2,500 psi
- **Steering and brake**: 27579 kPa 4,000 psi

Quick disconnects standard for systems diagnostics and buddy dump.

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### STANDARD EQUIPMENT

- Air cleaners, Donaldson SRG
- Air filter evacuators
- Alternator (24 volt/140A)
- Auto lubrication system (Lincoln) w/ground level fill & level indicator
- Batteries—4 x 8D and 2 x 30H (1450 CCA's)
- Battery charging cable and socket
- Body over center device
- Brakes: oil-cooled, multiple disc front & rear
- Circuit breakers, 24 volt
- Control cabinet
- Electric start
- Eliminator system for engine lubrication
- Filters, high pressure hydraulic
- Gate valves on hydraulic tank
- Komatsu Payload Weighing System—PLM-III
- Wiggins Fast-Fill Fuel System (in tank
- Thermostatic Fan Clutch
- Dynamic retarding with continuous
- Gate valves on hydraulic tank
- Retard speed control
- Reverse retarding
- Rock ejectors
- Thermostatic Fan Clutch
- Wiggins Fast-Fill Fuel System (in tank
- Mud flaps
- Muffled exhaust-deck-mounted
- Quick disconnects (hoist and diagnostics)
- Radiator sight gauge
- Removable power module unit ( radiator, engine, alternator, blower)
- Retard speed control
- Reverse retarding
- Sunvisor (adjustable)
- Sunvisor (adjustable)
- Brake lock and drive system interlock
- Circuit breakers, 24 volt
- Diagonal staircase across grille, L to R
- Dynamic retarding with continuous rated element grids
- Engine shutdown at ground level
- Hoist propulsion interlock
- Horns (electric—front and back-up)
- Integral ROPS/FOPS Cab Level 2
- Controls: Maintenance and power lockout
- Parking brakes with warning light & speed application protection
- Power steering w/auto secondary steering
- Protective deck handrails
- Pump driveline protector
- Radiator fan guard
- Seat belts 76 mm 3rd retractable
- Skid-resistant coating on walkways
- Horns (electric—front and back-up)
- Engine shutdown at ground level
- Body over center device
- Body Liners*

### STANDOARD HIGH VISIBILITY DELUXE CAB:

- AC Drive Interface Display
- Air cleaner vacuum gauges
- Air conditioner HFC-134A
- Alarm System warning lights (red)
  - Accumulator pre-charge
  - Brake/hydraulic oil temperature w/alarm
  - Coolant low level w/alarm
  - Drive system temperature w/alarm
  - Electric system fault w/alarm
  - Hydraulic oil level w/alarm
  - Low engine oil pressure w/alarm
  - Low brake pressure w/alarm
  - No propel/retard power w/alarm
  - Stop engine no propel w/alarm
  - Steering pressure w/alarm
- AM/FM/CD/MP3 and weather band
- Column-mounted retarder control
- Control cabinet service light (LED)
- Dome light
- Engine hourmeter, oil pressure gauge, coolant temperature gauge, hydraulic oil temperature gauge
- Engine shutdown w/“Smart Timer” delay
- Floor mat (double barrier)
- Fuel gauge in cab and on tank
- Fuel low level light and buzzer
- Gauges (w/backlight)
- Headlight switch
- Heater and defroster (heavy-duty)
- Heater switch
- High beam selector and indicator
- Horn (center of steering wheel)
- Indicator lights (amber):
  - Check engine w/alarm
  - Circuit breaker tripped
  - Coolant high temperature w/alarm
  - Drive system reset switch
- Fuel gauge in cab and on tank
- Fuel low level light and buzzer
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  - Drive system reset switch

### LIGHTING:

- Back-up lights—rear mount (2) halogen
- Back-up lights—R and L - deck mount (2) halogen
- Brake and retard lights on top of cab
- Clearance lights
- Control cabinet service light (LED)
- Dynamic retarding, rear (2) halogen
- Engine compartment service lights
- Fog lights (2) halogen
- Headlights (8) halogen
- Stairway lights
- Manual back-up light, switch and indicator
- Payload lights R and L (LED)
- Platform lights R, L and Center
- Stop & tail lights (2) (LED)
- Turn signals halogen
- Under-hood service lights

### OPTIONAL EQUIPMENT

- Body Liners*
- Hot start engine oil (220V 2-600W)
- Hubodimeter (miles or kilometers)
- Modular Mining Systems (MMS) ready
- Mufflers between frame rails
- Radiator shutters
- Special language decals
- Service Center—RH
- Suspensions, cold weather

*Available factory installed or non-installed. All other options and accessories listed are available factory installed only.