**Make and model**
Komatsu SSDA16V160

**Fuel**
Diesel

**Number of cylinders**
16

**Operating cycle**
4 cycle

**Rated brake power**
2014 kW, 2,700 HP @ 1900 rpm

**Flywheel power**
1902 kW, 2,550 HP @ 1900 rpm

**Weight (wet)**
9608 kg, 21,182 lb

**Electric Drive**

**Alternator**
GTA-41

**Dual impeller in-line blower**
340 m³/min, 12,000 cfm

**Control**
AC Torque Control System

**Motorized wheels**
GDY106 Induction Traction Motors

**Ratio**
32.62:1

**Speed (maximum)**
64.5 km/h, 40 mph

**AC/DC Current**

**Rated brake power**
482.6 mPa, 70,000 psi
tensile strength steel

** Casting material**
620.5 mPa, 90,000 psi
tensile strength steel

** 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 alignment**
Pin and spherical bushing

**Drive axle mounting**
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**
17237 kPa, 2500 psi

**Total friction area per brake**
97025 cm²

**Electric dynamic retarder**
Max 4026 kW

**Continuous 2460 kW, 3300 hp**

**Cooling System**

**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"

**Suspension**

**L&M radiator assembly, split-flow, with deaerator-type top tank.**

**Service Capacities**

**Cooling system**
594 L, 157 U.S. gal

**Crankcase**
280 L, 74 U.S. gal

**Hydraulic system**
1325 L, 350 U.S. gal

**Motor gear box (each)**
95 L, 25 U.S. gal

**Fuel**
4542 L, 1200 U.S. gal

*Includes lube oil filters
**ELECTRIC DRIVE TRUCK**

**DIMENSIONS**

All dimensions are with 211 m³ 276 yd³ body.

<table>
<thead>
<tr>
<th>Bodies</th>
<th>Struck</th>
<th>2:1 Heap</th>
<th>Loading Height*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>171 m³</td>
<td>224 yd³</td>
<td>211 m³ 276 yd³</td>
</tr>
<tr>
<td></td>
<td>7.06 m</td>
<td>23 2''</td>
<td>7.06 m 23 2''</td>
</tr>
</tbody>
</table>

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

**HYDRAULIC SYSTEM**

Steering: Accumulator assisted with twin double-acting cylinders provide constant rate steering. Emergency steering automatically supplied by accumulator.

- Turning circle diameter (SAE): 29.7 m 97 7/8''
- Reservoir: 947 L 250 U.S. gal
- Filtration: In-line replaceable elements
- Suction: 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: Two 3-stage dual-acting outboard cylinders, internal cushion valve, over-center dampening

- Power-up loaded: 21 sec
- Power-down: 23 sec
- Float-down empty: 24 sec

Pumps: Two pumps, single package, end of alternator

- Hoist and brake cooling: Tandem gear pump with output of 1022 lpm 270 gpm at 1900 rpm and 17237 kPa 2,500 psi
- Steering and brake: Pressure-compensating 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 powering disabled truck and for systems diagnostics.

**ELECTRICAL SYSTEM**

4 x 8D 1450 CCA, 12 volt, in series/parallel, 220-ampere-hour batteries, bumper-mounted with disconnect switch and lockout.

- Alternator: 24 volt, 260 amp
- Lighting: 24 volt
- Cranking motors: Two/24 volt

**WEIGHT DISTRIBUTION**

Empty vehicle weight (wet, 100% fuel, no options, std. Komatsu body, std. tires)

- Front axle: 99711 kg 219,826 lb 47%
- Rear axle: 110476 kg 243,557 lb 53%
- Total EVW: 210187 kg 463,383 lb

Gross vehicle weight (Nominal)

- Front axle: 165651 kg 365,201 lb 33%
- Rear axle: 336323 kg 741,469 lb 67%
- Total: 501974 kg 1,106,670 lb
- Nominal payload*: 291790 kg 643,287 lb 320 U.S. ton

*Nominal payload is defined by Komatsu America Corp. payload policy documentation. In general, the nominal payload must be adjusted for the specific vehicle configuration and site application. The figures above are provided for basic product description purposes. Please contact your Komatsu distributor for specific application requirements.
STANDARD EQUIPMENT

- Air cleaners, Donaldson SRG
- Alternator (24 volt/260A)
- Auto lubrication system w/ground level fill & level indicator
- Batteries—4 x BD (1450 CCA’s)
- Battery charging cable and socket
- Body over center device
- Brakes: oil-cooled, multiple disc front & rear
- Control cabinet
- Electric start
- Eliminator, Centinel, reserve oil tank
- Filters, high pressure hydraulic
- Gate valves on hydraulic tank
- Ground level radiator fill
- Komatsu Payload Weighing System—PLM-III
- Mirrors, LH flat and RH rectangular convex
- Mud flaps
- Muffled exhaust—deck-mounted
- Power supply, 24 volt and 12 volt DC
- Quick disconnects (hoist and diagnostics)
- Radiator sight gauge
- Removable power module unit (radiator, engine, alternator, blower)
- Retard speed control
- Reverse retarding
- Rock ejectors
- Thermostatic fan clutch
- Fast-fill fuel system (in tank and left side remote)
- Service center—LH
- Body impact plate

OPERATOR ENVIRONMENT & CONTROL

- All hydraulic service brakes with emergency auto apply
- Battery disconnect switch
- Body up sling
- Brake lock and drive system interlock
- Circuit breakers, 24 volt
- Diagonal staircase across grill, 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
- Maintenance and power lookout
- Parking brakes with warning light & speed application protection
- Power steering w/auto emergency steering
- Protective deck handrails
- Pump driveline protector
- Radiator fan guard
- Seat belts 76 mm 3" wide retractable
- Slip-resistant coating on walkways

STANDARD HIGH VISIBILITY DELUXE CAB

- AC drive interface display
- Air cleaner vacuum gauges
- Air conditioner HFC-134A
- Alarm system warning lights (red)
  - Accumulator pre-charge
  - Auto lube pressure, low
  - Battery charge
  - Brake/hydraulic oil temp w/alarm
  - Electric system fault w/alarm
  - IM fail
  - Link energized
  - 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 radio/CD/mp3 and XM™ capable
  - Column-mounted retarder control
  - Digital tachometer and speedometer
  - Dome light
  - Engine hourmeter, oil pressure gauge, coolant temperature gauge, hydraulic oil temperature gauge
  - Engine shutdown w/5 minute delay timer
  - 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):
    - 5-minute shutdown timer
    - Check engine w/alarm
    - Circuit breaker tripped
    - Coolant high temperature w/alarm
    - Drive system temperature w/alarm
    - Dump body up
    - Dynamic retarding
    - Low fuel
- Manual back-up lights
- Parking brakes applied
- Propel system not ready
- Propulsion system caution
- Propulsion system at rest
- Reduced propel system mode
- Retard at continuous level
- Retard speed control
- Service brakes
- Starter circuit
- Indicator lights (blue)
  - Engine service
  - VHMS snapshot (IM)
- Insulation (Max R-Value)

OPTIONAL EQUIPMENT

Note: Optional equipment may change operating weight.

- Air filter evacuators
- Body liners*
- Fire extinguisher 9 kg 20 lb
- Heated body
- Hot start engine coolant (220V 2-2500W)
- Hot start engine oil (220V 2-600W)
- Hubodometer (miles or Kilometers)
- Modular Mining Systems (MMS) ready
- Mufflers between frame rails
- Radiator shutters
- Reversed access ladder
- Service center—RH or dual LH/RH
- Special language decals
- Suspensions, cold weather

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

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