### SPECIFICATIONS

#### ENGINE
- **Make and model**: Komatsu SSDA16V160*
- **Fuel**: Diesel
- **Number of cylinders**: 16
- **Operating cycle**: 4 cycle
- **Rated brake power**: 2,700 HP @ 1900 rpm
- **Flywheel power**: 2,550 HP @ 1900 rpm
- **Weight (wet)**: 9608 kg, 21,182 lb

* Tier 2 emissions compliant. Tier 1 emissions engine is optional outside of North America.
** Rated brake power is the output of the engine as installed in this machine, at governed rpm and with engine manufacturer’s approved fuel setting. Accessory losses included are water pump, fuel pump and oil pump.
*** Flywheel power is the rated power at the engine flywheel minus the average accessory losses. Accessories include fan and charging alternator. Rating(s) represent net engine performance in accordance with SAE J1349 conditions.

#### 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

* 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
- **Rock service, tubeless, radial tires**
  - Standard tire**: 53/80 R63
  - Taper lock, five (5) piece rim
  - 914 mm x 1600 mm x 127 mm 9 14 m m  x 1600 m m  x 127 m m
- **Rims rated at**: 75 8 kPa

* Tires should meet application requirements for load/tpmhp, 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
  - **Struck**: 171 m³ 224 yd³
  - **Standard SAE heaped**: 2.1: 211 m³ 276 yd³
  - **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
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 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**: 17237 kPa 2500 psi
  - **Total friction area per brake**: 97025 cm² 15,038 in²
- **Emergency 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 at maximum gross vehicle weight.
- **Electric dynamic retarder**: Max 4026 kW 5400 hp
- **Continuous 2460 kW 3300 hp**
  - Continuously rated high-density blown grids w/retard capacity at low speeds 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°

#### COOLING SYSTEM
- **L&M radiator assembly, split-flow, with deaerator-type top tank.**
- **Radiator frontal area**: 7.02 m² 75.5 ft²

#### 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
**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, 140 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
- Air filter evacuators
- Alternator (24 volt/140A)
- Auto lubrication system w/ground level fill & level indicator
- Batteries–4 x 8D (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 lockout
- Parking brakes with warning light & speed application protection

### 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 control 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
    - Cooling 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 (green):
  - Engine service
  - KOMTRAX Plus snapshot (IM)
  - Insulation (Max R-Value)
  - KOMTRAX Plus
- Operator seat, adjustable w/air suspension, lumbar support and arm rests
- Panel lighting (adjustable)
- Passenger seat, full size
- Payload Meter PLM III
- Power windows
- Pressurized cab air system w/fan on
- Single brake/retarder pedal
- Starter key switch
- Sunvisor (adjustable)
- Tilt & telescoping steering wheel
- Voltmeter (battery output)
- Windshield (tinted safety plate)
- Windshield wiper (dual) and washer (electric)

### 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*
- Fire extinguisher 9 kg 20 lb
- Heated body
- Hot start engine coolant (220V 2-2500W)
- Hot start engine oil (220V 2-600W)

### STANDARD EQUIPMENT

- 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

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

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