MAXIMUM GVW 501974 kg 1,106,670 lb GROSS HORSEPOWER 2014 kW 2,700 HP

KOMATSU®

930E-4

930E



SPECIFICATIONS



ENGINE

Komatsu SSDA16V160*
Diesel
16
4 cycle
N 2,700 HP @ 1900 rpm
N 2,550 HP @ 1900 rpm
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

AC/DC CURRENT	
Alternator	GTA-41
Dual impeller in-line blower	340 m³/min 12,000 cfm
Control	. AC Torque Control System
Motorized wheels*	06 Induction Traction Motors
Ratio**	
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.

 *Optional ratios available.



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 36" x 63" x 5.0" rim assembly.
Rims rated at 758 kPa 110 psi cold inflation pressure.
Typical tire weight

Tires should meet application requirements for tkph/tmph, tread, compound, inflation pressure, ply rating or equivalent, etc.

All-welded steel flat floor body with horizontal bolsters and full



BODY

canopy. Eyebrow, rear wheel rock ejectors, body up sling and rubber mounts on frame are standard. Pivot exhaust heating optional. 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** 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



CAB

Advanced Operator Environment with integral 4-post ROPS/FOPS structure Level 2, adjustable air suspension seat w/lumbar support and arm rests, full-size 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).



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 Pi	n and spherical bushing
Drive axle alignment Swing link I	between frame and axle



BRAKING SYSTEM

Service brakes: oil-cooled, hydraulic-actuated, multiple disc brakes at

each wheel. Iraction system wheel slip/slide control.
Max. service apply pressure17237 kPa 2500 psi
Total friction area per brake 97025 cm ² 15,038 in ²
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	<u>'</u> ''
Max. rear stroke)''
Max. rear axle oscillation	ĵ°



COOLING SYSTEM

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

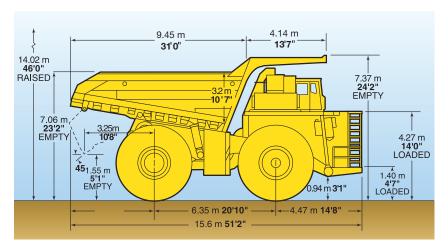


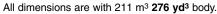
SERVICE CAPACITIES

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

DIMENSIONS



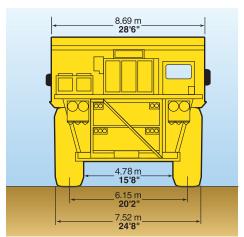


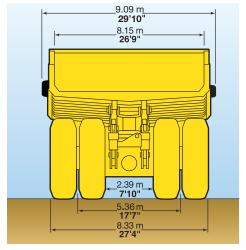
Bodies	Struck	2:1 Heap	Loading Height*
Standard	171 m³ 224 yd³	211 m ³ 276 yd ³	7.06 m 23'2''

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



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" 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 Hoist times 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
Lighting
Cranking motors



WEIGHT DISTRIBUTION

 $\textbf{Empty vehicle weight} \; (\text{wet, } 100\% \; \text{fuel, no options, std. Komatsu body, std. tires})$

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)

^{*} 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.

- 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

- 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

- · 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
- KOMTRAX Plus snapshot (IM)
- Insulation (Max R-Value)
- KOMTRAX Plus
- Operator seat, adjustable w/air suspension, lumbar support and arm
- 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



- Note: Optional equipment may change operating weight.
- Body liners*
- Fire extinguisher 9 kg 20 lb
- Heated body
- Hot start engine coolant (220V 2-2500W)
- Hubodometer (miles or Kilometers)
- · Modular Mining Systems (MMS) ready
- · Mufflers between frame rails

· Radiator shutters

- · Service center-RH or dual LH/RH

2/07 (EV-3)

Special language decals · Suspensions, cold weather

D2(1.5M)C

Hot start engine oil (220V 2-600W) Reversed access ladder

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

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