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

# KOMATSU®

930E-4

**930E** 



## **SPECIFICATIONS**



#### ENGINE

Komatsu SSDA16V160*
Diesel
4 cycle
. 2014 kW <b>2,700 HP</b> @ 1900 rpm
. 1902 kW <b>2,550 HP</b> @ 1900 rpm
9608 kg <b>21,182 lb</b>

- 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	11
Dual impeller in-line blower 340 m³/min 12,000 cf	m
Control AC Torque Control Syste	m
Motorized wheels*GDY106 Induction Traction Moto	rs
Ratio**	:1
Speed (maximum) 64.5 km/h 40 mm	h

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

	g - p
Floor sheet 16 r	nm <b>0.63</b> " 1379 mPa <b>200,000 psi</b>
	tensile strength steel (two-piece)
Front sheet 9 r	nm <b>0.35</b> " 1379 mPa <b>200,000 psi</b>
	tensile strength steel
Side sheet8 r	nm <b>0.31</b> " 1379 mPa <b>200,000 psi</b>
	tensile strength steel
Canopy sheet 5	mm <b>0.19</b> " 690 mPa <b>100,000 psi</b>
Struck	171 m <sup>3</sup> <b>224 yd</b> 3
Standard SAE heaped 2:1	211 m <sup>3</sup> <b>276 yd</b> <sup>3</sup>
Standard Komatsu body weight	30362 kg <b>66,936 lb</b>

<sup>\*</sup>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	
	tensile strength steel
Casting material	620.5 mPa <b>90,000 psi</b>
	tensile strength steel
Rail width	305 mm <b>12''</b>
Rail depth (minimum)	864 mm <b>34</b> "
Top and bottom plate thickness	45 mm <b>1.77</b> "
Side plate thickness	25 mm <b>0.98</b> "
Drive axle mounting Pin	and spherical bushing
Drive axle alignment Swing link be	tween frame and axle



#### **BRAKING SYSTEM**

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

cach wheel. Haction system wheel supraide control.
Max. service apply pressure17237 kPa 2500 psi
Total friction area per brake 97025 cm <sup>2</sup> 15,038 in <sup>2</sup>
Emergency brakes Automatically applied prior
to hydraulic system pressure dropping below leve
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 or
±15% grade at maximum gross vehicle weight
Electric dynamic retarder Max 4026 kW <b>5400 hp</b>
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 of	control
Max. front stroke	328 mm 12.92"
Max. rear stroke	. 239 mm <b>9.40</b> "
Max. rear axle oscillation	±6.5°



#### **COOLING SYSTEM**

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

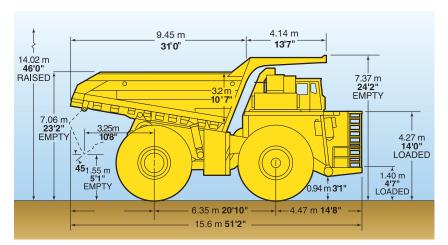


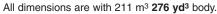
#### SERVICE CAPACITIES

Cooling system	157 U.S. gal
Crankcase*	74 U.S. gal
Hydraulic system	350 U.S. gal
Motor gear box (each)95 L	25 U.S. gal
Fuel	1200 U.S. gal

<sup>\*</sup> Includes lube oil filters

### DIMENSIONS





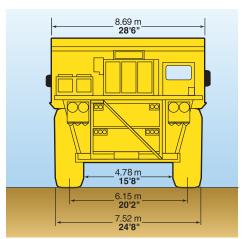
Bodies	Struck	2:1 Heap	Loading Height*
Standard	171 m³ <b>224 yd</b> ³	211 m <sup>3</sup> <b>276 yd</b> <sup>3</sup>	7.06 m <b>23'2''</b>

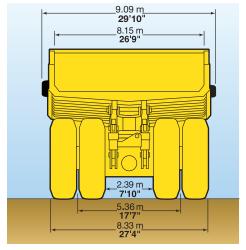
<sup>\*</sup>Exact load height may vary due to tire make, type, and inflation pressure.



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 Power-down......23 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 Quick disconnects standard for powering disabled truck and for systems diagnostics.

Steering . . . . Accumulator assisted with twin double acting cylinders







#### **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)

Front axle	. 165651 kg <b>365,201</b>	<b>lb</b> 33%
Rear axle	. 336323 kg <b>741,469</b>	<b>lb</b> 67%
Total	. 501974 kg <b>1,106,670</b>	lb
Nominal payload*	. 291790 kg <b>643,287</b>	lb
	320 U.S. to	n

<sup>\*</sup> 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
- Alternator (24 volt/260A)
- 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 slina
- 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 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) · 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
- VHMS with ORBCOMM
- 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

2/07 (EV-1)

- 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.

- Air filter evacuators
- Body liners\*

Heated body

- Fire extinguisher 9 kg 20 lb
- 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

D2(1.5M)C

Hot start engine coolant (220V 2-2500W) \*Available factory installed or non-installed. All other options and accessories listed are available factory installed only.

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