KOMATSU®

930E-4SE

930E



SPECIFICATIONS



ENGINE

Make and model	Komatsu SSDA18V170
Fuel	Diesel
Number of cylinders	
Operating cycle	
Gross horsepower	2611 kW 3,500 HP @ 1900 rpm
Net flywheel power*	2495 kW 3,346 HP @ 1900 rpm
Weight (wet)	10100 kg 22,266 lb

* 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

AC CURRENT
Alternator
Dual impeller in-line blower 453 m³/min 16,000 cfm
Control AC Torque Control System
Motorized wheels* GDY106 AC 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	

914 mm x 1600 mm x 127 mm **36"** x **63"** x **5.0"** rim assembly Rated at 758 kPa **110** psi cold inflation pressure for rims, 600 kPa **87** psi for tires.

* Tires should meet application requirements for tkph/tmph, 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	
tensile strength steel (two-piece)
Front sheet 9 mm 0.35 " 1379 MPa 200,000 psi	
tensile strength stee	
Side sheet 8 mm 0.31 " 1379 MPa 200,000 psi	
tensile strength stee	ŀ
Canopy sheet 5 mm 0.19 " 690 MPa 100,000 psi	
tensile strength stee	اد
Standard SAE heaped 2:1211 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 (meets J1040 Apr88), adjustable air suspension seat w/lumbar 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).



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	82.6 MPa 70,000 psi
	tensile strength steel
Casting material 6	320.5 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 mountingPin a	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.

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Max. service apply pressure17237 kPa 2500 ps
Total friction area per brake 97025 cm ² 15,038 in
Secondary brakesAutomatically applied prio
to hydraulic system pressure dropping below leve
required to meet secondary stopping requirements
Wheel brake locks
Parking brakesMultiple disc, spring-applied
hydraulically-released, dry brakes on inboard en
of each wheel motor rotor shaft. Rated to hold or
±15% grade @ maximum gross vehicle weight
Electric dynamic retarder
Continuous 2909 kW 3900 h
Continuously rated high-density blown grids w/retard at engine idle



SUSPENSION

and retard in reverse propulsion.

Variable	rate	hydro-pneumatic	with	integral	rebound	control
Max. fro	ont str	oke			. 328 mm	1 2.92 "
Max. re	ar stro	oke			239 m	m 9.40 "
Max. re	ar axl	e oscillation				±6.5°

* Rear suspensions are inverted.



COOLING SYSTEM

L&M radiator assembly, split-flow, with deareation-type top tank measuring 3277 mm x 2164 $\,$ 10'9" x 7'1".

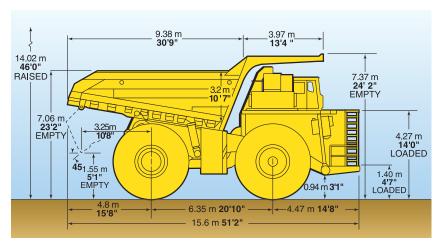


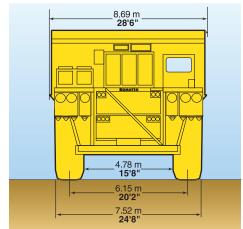
SERVICE CAPACITIES

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

* Includes lube oil filters







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

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

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

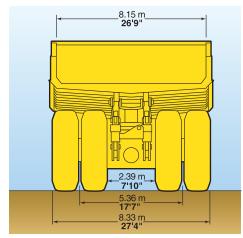


Steering Accumulator assisted with twin double acting cylinders provide constant rate steering. Secondary steering automatically supplied by accumulator. Turning circle diameter (SAE)......29.7 m 97'7" Filtration In-line replaceable elements Suction..... Single, full flow, 100 mesh Hoist and steering 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 axial piston pump
with output of 246 lpm **65 gpm** at 1900 rpm
and 18961 kPa **2,750 psi**

System relief pressures

Quick disconnects standard for systems diagnostics and buddy dump.





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

Alternator24 volt, 140 amp
Lighting
Cranking motors two/24 volt



WEIGHT DISTRIBUTION

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

Loaded Vehicle at maximum GVW rating

Front axle	65956	365,871	32.8
Rear axle	39649	748,799	67.2
Total 5	05755 1	115 000	

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.

- 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
- 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
- Wiggins Fast-Fill Fuel System (in tank and left side remote)
- Service Center-LH
- · Body Impact Plate

OPERATOR ENVIRONMENT & CONTROL:

- · All hydraulic service brakes with secondary auto apply
- · Battery disconnect switch
- Body up sling
- 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

- · 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 3" retractable
- Skid-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
- 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
- Digital tachometer and speedometer
- 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

- Drive system temperature w/alarm
- Dump body up
- Dynamic retarding
- Lincoln Lube
- Low Fuel
- Manual back-up lights
- Park brakes applied
- Propel system not ready
- Reduced propel system mode
- Retard at continuous level
- Retard speed control Service brakes
- Starter circuit
- Timed engine shutdown
- Insulation (Max R-Value)
- Operator seat, adjustable w/air suspension, lumbar support and arm rests
- Panel lighting (adjustable)
- · Passenger seat
- · Power windows
- · Pressurized cab air system w/fan on
- · Single brake/retarder pedal
- Starter key switch
- · Sunvisor (adjustable)
- Tilt & telescoping steering wheel
- KOMTRAX Plus
- 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 may change operating weight).

- 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 Service Center–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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