KOMATSU®

930E-4SE

MAXIMUM GVW
50,575 kg 111,000 lb

GROSS HORSEPOWER
2,611 kW 3,500 HP

Photo may include optional equipment.
**ENGINE**

Make and model: Komatsu SSDA19V170
Fuel: Diesel
Number of cylinders: 18
Operating cycle: 4 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: GTA-39
Dual impeller in-line blower: 453 m³/min, 16,000 cfm
Control: AC Torque Control System
Motorized wheels*: GDY106 AC Induction Tractor 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.

** 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"
Rated at 758 kPa 110 psi cold inflation pressure for rims,
600 kPa 87 psi for tires.

* Tires should meet application requirements for mph/rpm, 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 ejectors, body up scaling, 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 tensile strength steel

Standard SAE heaped: 211 m² 276 yd²
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 horse collar.

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/side control.
Max. service apply pressure: 17237 kPa 2500 psi
Total friction area per brake: 97025 cm² 15,038 in²
Secondary 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 maximum gross vehicle weight.

Electric dynamic retarder: Max 4026 kW 5400 hp
Continuous 2909 kW 3900 hp
Continuously rated high-density blown grids w/retard at engine idle 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"

* Rear suspensions are inverted.

** COOLING SYSTEM **

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

** SERVICE CAPACITIES **

Cooling System: 719 L 190 U.S. gal
Crankcase*: 341 L 90 U.S. gal
Hydraulic system: 1325 L 350 U.S. gal
Motor gear box (each): 95 L 25 U.S. gal
Fuel: 5300 L 1400 U.S. gal

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

**930E-4SE**

### ELECTRICAL SYSTEM

- 4 x 8D and 2 x 30H, 220-ampere-hour batteries, bumper-mounted with disconnect switch.
- Alternator: 24 volt, 140 amp.
- Lighting: 24 volt.
- Cranking motors: two/24 volt.

### WEIGHT DISTRIBUTION

<table>
<thead>
<tr>
<th></th>
<th>kg</th>
<th>lb</th>
<th>%</th>
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<tbody>
<tr>
<td>Empty Vehicle</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front axle</td>
<td>104459</td>
<td>230,293</td>
<td>48.5</td>
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<tr>
<td>Rear axle</td>
<td>110847</td>
<td>244,377</td>
<td>51.5</td>
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<tr>
<td>Total (wet, 100% fuel)</td>
<td>215307</td>
<td>474,670</td>
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<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Loaded Vehicle at maximum GVW rating</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Front axle</td>
<td>165956</td>
<td>365,871</td>
<td>32.8</td>
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<tr>
<td>Rear axle</td>
<td>339649</td>
<td>748,799</td>
<td>67.2</td>
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<tr>
<td>Total</td>
<td>505755</td>
<td>1,115,000</td>
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**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.

### HYDRAULIC SYSTEM

- 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”
- 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 dampering.
- Hoist times:
  - 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 axial 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 systems diagnostics and buddy dump.

### DIMENSIONS

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

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

- 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
- Thermostatic Fan Clutch
- Rock ejectors
- Body Impact Plate
- 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 3rd 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
  - Horn (center of steering wheel)
  - Indicators 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

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

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)
- 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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