### 930E-4SE Electric Drive Truck

#### ENGINE

- **Make and model**: Komatsu SSDA19V170
- **Fuel**: Diesel
- **Number of cylinders**: 18
- **Operating cycle**: 4 cycle
- **Gross flywheel power**: 3,500 HP @ 1900 rpm
- **Weight (wet)**: 10100 kg

*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 Traction Motors

#### BRACING 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
- **Total friction area per brake**: 97025 cm²
- **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

#### 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 1200psi, 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 MPa 200,000 psi tensile strength steel (two-piece)
- **Front sheet**: 9 mm 0.35 MPa 200,000 psi tensile strength steel
- **Side sheet**: 8 mm 0.31 MPa 200,000 psi tensile strength steel
- **Canopy sheet**: 5 mm 0.19 MPa 100,000 psi tensile strength steel
- **Standard SAE heaped**: 211 m³ 276 yd³
- **Standard Komatsu body weight**: 30362 kg

* 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/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
- **Total friction area per brake**: 97025 cm² 15,038 in²
- **Drive axle alignment**: Swing link between frame and axle

#### COOLING SYSTEM

- **L&M radiator assembly, split-flow, with deareation-type top tank measuring 3277 mm x 2164 10'9" x 71".**

#### 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.
**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>Empty Vehicle</th>
<th>kg</th>
<th>lb</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front axle</td>
<td>104459</td>
<td>230,293</td>
<td>48.5</td>
</tr>
<tr>
<td>Rear axle</td>
<td>110847</td>
<td>244,377</td>
<td>51.5</td>
</tr>
<tr>
<td>Total (wet, 100% fuel)</td>
<td>215307</td>
<td>474,670</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Loaded Vehicle at maximum GVW rating</th>
<th>kg</th>
<th>lb</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front axle</td>
<td>165956</td>
<td>365,871</td>
<td>32.8</td>
</tr>
<tr>
<td>Rear axle</td>
<td>339649</td>
<td>748,799</td>
<td>67.2</td>
</tr>
<tr>
<td>Total</td>
<td>505755</td>
<td>1,115,000</td>
<td></td>
</tr>
</tbody>
</table>

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.
**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
- 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
- Radiator fans: one each LH and RH
- Radiator fans: one each LH and RH
- 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 Liners
- 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 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
  - 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

**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)
- 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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