KOMATSU®

730E

MAXIMUM GVW
324322 kg 715,000 lb

GROSS HORSEPOWER
1491 kW 2,000 HP

ELECTRIC DRIVE TRUCK

Photo may include optional equipment.
ELECTRIC DRIVE TRUCK

SPECIFICATIONS

ENGINE

Make and model: Komatsu SSA16V159
Fuel: Diesel
Number of cylinders: 16
Operating cycle: 4 stroke
Rated brake power: 1491 kW, 2000 HP @ 1900 rpm
Flywheel power: 1388 kW, 1860 HP @ 1900 rpm
Weight (wt.): 5294 kg, 11,670 lb

NOTE: This engine includes the Engine Monitor System

*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 gross engine performance in accordance with SAE J1349 conditions.

AC/DC CURRENT

Alternator: G.E. GTA-22
Control: Statex III Fuelsaver
Motorized wheels: G.E. 788
Ratio: 26.825:1
Speed (maximum): 55.7 km/h, 34.6 mph

TIRE AND RIM

Rock service, tubeless, tires
*Standard tire: 37.00 R57
Standard five (5) piece rim
686 mm x 1488 mm x 52 mm patented Phase II New Generation rim assembly with patented 152 mm 6" double forged flanges. Not interchangeable with other manufacturers' rims due to improved design for greater load support and longer fatigue life. Rated at 827 kPa 120 psi cold inflation pressure.

Typical tire weight: 1837 kg, 40,500 lb

*Optional ratios available.

BODY

All-welded steel flat floor body with horizontal bolsters and full canopy. Eyebrow, rear wheel rock ejectors, body up cable and rubber mounts on frame are standard. Pivot exhaust heating optional.

Bottom plate: 19 mm, 0.75" tensile strength steel (two-piece)
Front sheet: 12 mm, 0.47" tensile strength steel
Side sheet: 9 mm, 0.35" tensile strength steel
Struck: 77 m², 101 yd²
Standard SAE heaped 2.1: 111 m³, 145 yd³
Standard Komatsu body weight: 25612 kg, 56,464 lb

CAB

Advanced Operator Environment with integral 4-post ROPS/FOPS structure (meets J1040 Apr88), adjustable air suspension seat with lumbar support and arm rests, passenger seat, maximum R-value insulation, tilt and telescoping steering wheel, electric windshield wipers with 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: 279 mm, 11"
Rail depth (minimum): 813 mm, 32"
Top and bottom plate thickness: 32 mm, 1.25"
Side plate thickness: 19 mm, 0.75"
Drive axle mounting: High-mount ball and socket joint at front
Drive axle alignment: Swing link between frame and axle

BRAKING SYSTEM

Service brakes: all-hydraulic actuated
Front: Three calipers on a 1168 mm 46.0" O.D. disc.
Rear: Dual disc armature speed. Two 635 mm 25" O.D. discs per side.

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

Spring-applied, hydraulically released, with speed application protection.

Electric dynamic retarder (max.): 2759 kW, 3,700 hp

HYDRAIR® II

Variable rate hydro-pneumatic with integral rebound control.
Maximum front stroke: 335 mm, 13.2"
Maximum rear stroke: 279 mm, 11.0"
Maximum rear axle oscillation: ±9.75°

COOLING SYSTEM

L&M radiator assembly with sight gauge. Deaeration-type top tank. Dual pass cooling.

Cooler frontal area: 4.33 m², 46.6 ft²

SERVICE CAPACITIES

Crankcase: 223 L, 59 U.S. gal
Motor gear box: 40 L, 10.5 U.S. gal
Fuel: 3217 L, 850 U.S. gal

*Includes tube of filters
**ELECTRIC DRIVE TRUCK**

**ELECTRICAL SYSTEM**

4 x 8D 1450 CCA, 12 volt batteries, in series/parallel, bumper-mounted with disconnect switch.

- Alternator: 24-volt, 260 amp
- Lighting: 24-volt
- Cranking motors: two/24-volt

**WEIGHT DISTRIBUTION**

Empty vehicle weight (wet, 100% fuel, no options, std Komatsu body, std tires)

- Front axle: 66840 kg = 147,357 lb (48%)
- Rear axle: 73725 kg = 162,593 lb (52%)
- Total EVW: 140592 kg = 309,950 lb

Gross vehicle weight (Nominal)

- Front axle: 107026 kg = 235,950 lb (33%)
- Rear axle: 217296 kg = 479,050 lb (67%)
- Total: 324322 kg = 715,000 lb
- Nominal payload*: 183730 kg = 405,050 lb

*Nominal payload is defined by Komatsu America Corporation's 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.

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**HYDRAULIC SYSTEM**

Steering: Accumulator-assisted with twin cylinders provide constant rate steering. Emergency power steering automatically supplied by accumulator (meets SAE J1511)

- Turning circle diameter (SAE): 28.0 m = 92 ft
- Reservoir: 731 L = 193 U.S. gal
- Filtration: In-line replaceable elements
- Suction: Single, full-flow, 100 mesh
- Hoist and steering: Dual, full-flow, in-line, high-pressure
- Brake component cabinet: Above-deck, easily accessible with diagnostic test connector.
- Hoist: Two 3-stage dual-acting outboard cylinders, internal cushion valve.

Hoist times

- Power-up loaded: 21 sec
- Power-down: 15 sec
- Float-down empty: 22 sec

Pumps

- Hoist: Gear-type pump with output of 513 lpm = 135.6 gpm @ 1900 rpm and 17240 kPa = 2500 psi
- Steering and brake: Vane-type pump with output of 235 lpm = 62.0 gpm @ 1900 rpm and 18960 kPa = 2,750 psi

System relief pressures

- Hoist: 17240 kPa = 2500 psi
- Steering and brake: 27580 kPa = 4000 psi

Quick disconnects standard for powering disabled truck and for system diagnostics.

**DIMENSIONS**

All dimensions are with 111 m³ = 145 yd³ body.

<table>
<thead>
<tr>
<th>Bodies</th>
<th>Struck</th>
<th>2:1 Heap</th>
<th>Loading Height*</th>
</tr>
</thead>
</table>
| Standard | 77 m³ | 101 yd³ | 111 m³ | 145 yd³ | 5.61 m | 18'5"

*Exact load height may vary due to tire make, type, and inflation pressure.
7-step (ERR) Extended Range Retarding
Air cleaners, Donaldson SRG
Alternator (24 volt/260A)
Auto lubrication system
Batteries (4 x 8D, 1450 CCA 12 volt)
Battery charging cable and socket
Body left-side canopy protector
Body over center device
Brakes: Front wheel speed disc; rear - dual disc armature speed
Electric start
Fast-Fill Fuel System (in tank, right side)
Filters, high pressure hydraulic
Gate valves on hydraulic tank
Mirror, LH flat and RH rectangular convex
Mud flaps
Muffled exhaust, deck-mounted
On board load box
Power supply, 24 volt and 12 volt DC
Quick disconnects (hoist, steering)
Removable power module unit (radio, engine, alternator, blower)
Rock ejectors
Radiation sight gauge
Retard speed control
Retard grids, continuous rated, 14 element
Reverse retarding
Thermostatic fan clutch
Two-speed overspeed retarding
Vari-volt alternator control
Vertical ladders

SAFETY:
All hydraulic service brakes with emergency auto apply
Battery disconnect switch
Body up cable
Brake lock and drive system interlock
Circuit breakers, 24 volt
Dynamic retarding with continuous rated grids

STANDARD EQUIPMENT
- Engine shutdown at ground level
- Exhaust blankets
- Hoist propulsion interlock
- Horns (back-up, front - electric)
- Integral roll-over protection (ROPS)
- Maintenance and power lockout
- Parking brakes with warning light and speed application protection
- Power steering w/auto emergency steering
- Protective deck handrails
- Pump drive line protector
- Radiator fan guard
- Seat belts 76 mm 3” retractable
- Skid-resistant coating on walkways

STANDARD HIGH VISIBILITY DELUXE
- Air cleaner vacuum gauge
- Air conditioner HFC 134A
- Alarm System warning lights (red)
- Accumulator pre-charge
- Coolant low level w/alarm
- Coolant high temperature w/alarm
- Electric drive system cooling blower w/alarm
- Electric system fault w/alarm
- Hydraulic oil level w/alarm
- Hydraulic oil temperature w/alarm
- Low engine oil pressure w/alarm
- Low brake pressure w/alarm
- Motorized wheel temperature stop engine w/alarm
- Steering pressure w/alarm
- AM/FM cassette radio, XM capable
- Engine monitoring system
- Digital tachometer and speedometer
- Dome light
- Double door seals
- Engine hourmeter, oil pressure gauge, water temperature gauge
- Engine shutdown w/5 minute delay timer
- Floor mat
- Fuel gauge in cab and on tank
- Gauges (w/back light)
- Headlight switch
- Heater and defroster (heavy-duty)
- Heater switch
- High beam selector and indicator
- Indicator lights (amber):
  - 5-minute idler timer
  - Auto lube alarm
  - Check engine w/alarm
  - Circuit breaker tripped
  - Dynamic retarding
  - Dump body up
  - Hydraulic oil filter
  - Low fuel level
  - Manual back-up lights
  - Park brakes applied
  - Retard speed control
  - Service brakes
  - Starter circuit

OPTIONAL EQUIPMENT
(Optional equipment may change operating weight).
- Additional high-mounted headlights
- Air cleaner evacuators
- Arctic protection package (suspensions, antifreeze/lube below -40º C)
- Back-up lights, deck mounted
- Body liners
- Exhaust-heated body
- Filtered air inlet system
- Fire extinguisher 9 kg 20 lb
- Fog lights–Halogen (2) lower grille
- Hot start (engine oil, coolant, hydraulic tank)
- Hubometer (miles or kilometers)
- Modular Mining System (MMS) ready
- Motorized wheel ratio’s (higher/lower)
- Mufflers between frame rails
- Pressure fueling, LH remote*
- Radiator shutters
- Trolley assist package
- Service Center–RH
- Special language decals

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

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