Sandvik LH514E is an electrically-driven loader for underground hard rock loading and hauling applications, with a tramming capacity of 14 metric tons and a payload-to-own-weight ratio that’s best in class.

The Sandvik LH514E is a game changer compared to traditional diesel-powered underground loaders. The Sandvik LH514E offers a possibility to select a loader equipped with an electric motor emitting zero diesel emissions, and significantly less noise, vibrations and heat than diesel equipment. The loader is a strong package of pure power, delivering high breakout forces, high tramming speeds, and increased acceleration. The high capacity, unique bucket filling design and rapid cycle times mean you can move more material faster – at a lower cost per tonne.

Operator efficiency and safety are always a priority in underground LHDs, and the Sandvik LH514E delivers there, too. Good ergonomics and responsive controls maximize efficiency.

**Advantages**

- Zero diesel emissions from the electric motor improves working environment
- Small turning radius enables easy navigation and optimized envelope size
- High power-to-weight ratio ensures faster cycle times
- Sandvik Intelligent Control system offers a user-friendly interface with vehicle parameters for rapid fault-finding
- Quick and easy access for ground-level service and maintenance optimizes uptime

**CAPACITIES**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tramming capacity</td>
<td>14 000 kg</td>
</tr>
<tr>
<td>Break out force, lift</td>
<td>28 082 kg</td>
</tr>
<tr>
<td>Break out force, tilt</td>
<td>24 574 kg</td>
</tr>
<tr>
<td>Tipping load</td>
<td>31 100 kg</td>
</tr>
<tr>
<td>Standard bucket</td>
<td>5.4 m³</td>
</tr>
</tbody>
</table>

**SPEEDS FORWARD & REVERSE (LEVEL/LOADED)**

<table>
<thead>
<tr>
<th>Gear</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>4.0 km/h</td>
</tr>
<tr>
<td>2nd</td>
<td>7.1 km/h</td>
</tr>
<tr>
<td>3rd</td>
<td>12.1 km/h</td>
</tr>
<tr>
<td>4th</td>
<td>20.5 km/h</td>
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</tbody>
</table>

**BUCKET MOTION TIMES**

<table>
<thead>
<tr>
<th>Time</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raising</td>
<td>8.4 sec</td>
</tr>
<tr>
<td>Lowering</td>
<td>4.0 sec</td>
</tr>
<tr>
<td>Dumping</td>
<td>1.8 sec</td>
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</tbody>
</table>

**OPERATING WEIGHTS**

<table>
<thead>
<tr>
<th>Weight</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total operating weight</td>
<td>38 500 kg</td>
</tr>
<tr>
<td>Front axle</td>
<td>18 200 kg</td>
</tr>
<tr>
<td>Rear axle</td>
<td>22 300 kg</td>
</tr>
</tbody>
</table>

**LOADED WEIGHTS**

<table>
<thead>
<tr>
<th>Weight</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total loaded weight</td>
<td>52 500 kg</td>
</tr>
<tr>
<td>Front axle</td>
<td>38 000 kg</td>
</tr>
<tr>
<td>Rear axle</td>
<td>14 500 kg</td>
</tr>
</tbody>
</table>
OPERATIONAL CONDITIONS AND LIMITS
Environmental temperature From -20 °C to +50 °C
Standard operating altitude With standard unit from -1500 m to +2000 m at 25 °C

REQUIREMENTS AND COMPLIANCE
Compliance with 2006/95/EC Low voltage directive
Compliance with 2004/108/EC Electromagnetic compatibility directive
Compliance with 2006/42/EC Machinery directive (Equipment for EU area, achieved with relevant options)
Design based on MDG 15. Guideline for mobile and transportable equipment for use in mines. (Equipment for Australia, achieved with relevant options)
Electrical system based on IEC 60204-1. Safety of machinery – Electrical equipment of machines – Part 1: General requirements
CONTAINS FLUORINATED GREENHOUSE GASES (closed cabin option)
Refrigerant R134a under pressure max 38 bar/550 PSI:
Filled weight: 2,000 kg
CO2e: 2,860 tons
GWP: 1430
Information based on the F Gas Regulation (EU) No 517/2016

POWER TRAIN

ELECTRIC MOTOR
Three phase squirrel-cage drive motor VEM
Drive motor output 132 kW
Drive motor voltage 1 000 V
Drive motor frequency 50 Hz
Drive motor speed 1 500 rpm
Drive motor insulation class F
Drive motor degree of protection IP 55
Three phase squirrel-cage pump motor VEM
Pump motor output 45 kW
Pump motor voltage 900 V
Pump motor frequency 50 Hz
Pump motor speed 1500 rpm
Pump motor insulation class F
Pump motor degree of protection IP 55
Three phase squirrel-cage fan motor VEM, 2 pcs
Fan motor output 1.5 kW
Fan motor voltage 400 V
Fan motor frequency 50 Hz
Fan motor speed 3 000 rpm
Fan motor insulation class F
Total electric power 180 kW

TRANSmission
Power shift transmission with modulation. Dana 6422, electrical gear shift control, four gears forward and reverse.

AXLES
Front axle, spring applied hydraulic operated brakes. Fixed.
Kessler D106, limited slip differentials.
Rear axle, spring applied hydraulic operated brakes, Oscillating ± 8°.
Kessler D106, limited slip differentials.

TIRES
Tire size (Tires are application approved. Brand and type subject to availability) 26,5x25 L5S 36 ply

OPERATOR’S COMPARTMENT
CABIN (Cabin option replaces the standard canopy)
ROPS certification according to EN ISO 3471
FOPS certification according to EN ISO 3449
Sealed, air conditioned, over pressurized, noise suppressed closed cabin
Sound absorbent material to reduce noise
Laminated glass windows
Cabin mounted on rubber mounts to the frame to reduce vibrations
Air conditioning unit located outside the cabin to reduce noise inside the cabin
Cyclone pre-filter for A/C device
Adjustable joysticks
No high pressure hoses in the operator’s compartment
Inclinometers to indicate operating angle
Emergency exit
Floor washable with water to reduce dust
Three-point contact access system with replaceable and colour coded handles and steps
12 V output
Remote circuit breaker switch

CONVERTer
Dana C8672-70

TS3-LHS14E-17/ENG/METRIC
CANOPY (Standard)
- ROPS certification according to EN ISO 3471
- FOPS certification according to EN ISO 3449
- Adjustable joystick
- No high pressure hoses in the operator’s compartment
- Inclinometers to indicate operating angle
- Emergency exit
- Floor washable with water to reduce dust
- Three-point contact access system with replaceable and color-coded handles and steps
- 12 V output
- Remote circuit breaker switch

OPERATOR’S SEAT
- Low frequency suspension: Standard
- Height adjustment: Standard
- Adjustment according to the operator’s weight: Standard
- Fore-aft isolation: With cabin option only
- Padded and adjustable arm rests: Standard
- Adjustable lumbar support: With cabin option only
- Selectable damping: With cabin option only
- Two-point seat belt: Standard

CONTROL SYSTEM, DASHBOARD AND DISPLAYS
- Sandvik Intelligent Control system
- Critical warnings and alarms: Displayed as text and with light
- Instrument Panel: 5.7” Display with adjustable contrast and brightness
- Instrument Panel: Illuminated switches
- My Sandvik Digital Services Knowledge Box™ on-board hardware: Standard

FRAME

REAR AND FRONT FRAME
- High strength structure with optimized material thicknesses.
- Reduced own weight for higher overall hauling capacity and long structural lifetime. Welded steel construction.
- Central hinge: Adjustable upper bearing
- Tanks: Rear tanks are bolted to frame, hydraulic tank and cabin base are both bolted and welded to frame
- Automatic central lubrication: Standard

HYDRAULICS

Filling pump for hydraulic oil: Electrical
Door interlock for brakes and boom, bucket, and steering hydraulics: Standard
Oil cooler for hydraulic and transmission oil: Capability up to 52°C ambient temperature
Fittings: ORFS
Hoses: MSHA approved
Hydraulic oil tank capacity: 320 l
Sight glass for oil level: 2 pcs

STEERING HYDRAULICS

- Full hydraulic, centre-point articulation, power steering with two double acting cylinders. Steering lock.
- Steering main valve: Open center type, LS controlled
- Steering hydraulic cylinders: 100 mm, 2 pcs
- Steering pump: Piston type
- Steering and servo hydraulic pumps: Piston type

BUCKET HYDRAULICS

- The oil flow from steering hydraulic pump is directed to bucket hydraulics when steering is not used.
- Joystick bucket and boom control (electric), equipped with piston pump that delivers oil to the bucket hydraulic main valve.
- Boom system: Z-link
- Lift cylinders: 160 mm, 2 pcs
- Dump cylinder: 200 mm, 1 pc
- Main valve: Open center type
- Pump for bucket hydraulics: Piston type, LS controlled

BRAKES

- Service brakes are spring applied, hydraulically operated multidisc wet brakes on all wheels. Two independent circuits: one for the front and one for the rear axle. Service brakes also function as an emergency and parking brake. Brake system performance complies with requirements of EN ISO 3450, AS2958.1 and SABS 1589
- Neutral brake: Standard
- Automatic brake activation system, ABA: Standard
- Electrically driven emergency brake release pump: Standard
- Brake oil tank capacity: 70 l
ELECTRICAL EQUIPMENT

MAIN COMPONENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batteries</td>
<td>2 x 12 V, 56 Ah, Gelled-electrolyte type</td>
</tr>
<tr>
<td>Cable reeling</td>
<td>Electronically controlled</td>
</tr>
<tr>
<td>Cable anchoring unit</td>
<td>Standard</td>
</tr>
<tr>
<td>Cable shock absorber</td>
<td>Standard</td>
</tr>
<tr>
<td>Driving lights</td>
<td>LED lights: 4 pcs in front, 4 pcs in rear, 4 pcs in cabin</td>
</tr>
<tr>
<td>Working lights</td>
<td>LED light, 1 pc under boom</td>
</tr>
<tr>
<td>Parking, brake and indicator (blinker) lights</td>
<td>LED lights: 2 pcs in front, LED lights 2 pcs in rear, LED lights</td>
</tr>
<tr>
<td>Control system</td>
<td>5,7” Color display, 6 modules, inbuilt system diagnostic</td>
</tr>
<tr>
<td>Reverse alarm (CEN)</td>
<td>Standard</td>
</tr>
<tr>
<td>Flashing beacon</td>
<td>Standard</td>
</tr>
</tbody>
</table>

INCLUDED SAFETY FEATURES

FIRE SAFETY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable fire extinguisher</td>
<td>12 kg (CEN)</td>
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</table>

ENERGY ISOLATION

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lockable main switch, ground level access</td>
<td>Standard</td>
</tr>
<tr>
<td>Emergency stop push buttons according to EN ISO 13850</td>
<td>1 pc in cabin 2 pcs in rear</td>
</tr>
<tr>
<td>Automatic discharge for pressure accumulators (brake system and pilot circuit)</td>
<td>Standard</td>
</tr>
<tr>
<td>Frame articulation locking device</td>
<td>Standard</td>
</tr>
<tr>
<td>Mechanical boom locking device</td>
<td>Standard</td>
</tr>
<tr>
<td>Wheel chocks and brackets</td>
<td>Standard</td>
</tr>
</tbody>
</table>

DOCUMENTATION

STANDARD MANUALS

<table>
<thead>
<tr>
<th>Manual</th>
<th>Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator’s Manual</td>
<td>English and other EU languages</td>
</tr>
<tr>
<td>Maintenance Manual</td>
<td>English and other EU languages</td>
</tr>
<tr>
<td>Parts Manual</td>
<td>English</td>
</tr>
<tr>
<td>Service and Repair Manual</td>
<td>English, Russia</td>
</tr>
<tr>
<td>ToolMan</td>
<td>2 x CD and 2 x USB stick in pdf format, includes all the manuals</td>
</tr>
<tr>
<td>Decals</td>
<td>English, Swedish, Russia</td>
</tr>
</tbody>
</table>

OPTIONS

SAFETY OPTIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety cabin, 2-point seatbelt, corner light, ROPS/FOPS and air conditioning unit.</td>
<td></td>
</tr>
<tr>
<td>Cabin lift kit (150 mm)</td>
<td></td>
</tr>
<tr>
<td>Disabled 4th gear (mandatory in EU)</td>
<td></td>
</tr>
<tr>
<td>Radio remote control HBC, CAN</td>
<td></td>
</tr>
<tr>
<td>Fire suppression system ANSUL, 2 tanks, 8 nozzles (CEN), including auto shutdown (not for automation)</td>
<td></td>
</tr>
<tr>
<td>Fire suppression system ANSUL, 2 tanks, 8 nozzles (CEN), Checkfire, including auto shutdown</td>
<td></td>
</tr>
<tr>
<td>Safety rails</td>
<td></td>
</tr>
<tr>
<td>Emergency steering (CEN)</td>
<td></td>
</tr>
<tr>
<td>AutoMine™ Loading: Onboard Package</td>
<td></td>
</tr>
<tr>
<td>AutoMine™ Loading, readiness</td>
<td></td>
</tr>
</tbody>
</table>

ELECTRICAL OPTIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric motor</td>
<td>132 kW 660V/50Hz</td>
</tr>
<tr>
<td>Supply box (IT)</td>
<td></td>
</tr>
<tr>
<td>Supply box (TNS)</td>
<td></td>
</tr>
<tr>
<td>Round cable, NEXANS RHEYCORD(RTS), 4x50 mm2, 330 m (1000V)</td>
<td></td>
</tr>
<tr>
<td>Round cable, NEXANS RHEYCORD(RTS), 4x70 mm2, 280 m (660V)</td>
<td></td>
</tr>
<tr>
<td>T000VAC 340m KA certified trailing cable (340m 4x50) for China</td>
<td></td>
</tr>
<tr>
<td>1000VAC 280m KA certified trailing cable (280m 4x50) for China</td>
<td></td>
</tr>
<tr>
<td>660VAC 250m KA certified trailing cable (250m 4x70) for China</td>
<td></td>
</tr>
<tr>
<td>VICTOR plug for supply box</td>
<td></td>
</tr>
<tr>
<td>Monitoring camera system</td>
<td></td>
</tr>
</tbody>
</table>

OTHER OPTIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional cabin heater element for air conditioning</td>
<td></td>
</tr>
<tr>
<td>Cover grills for lamps</td>
<td></td>
</tr>
<tr>
<td>Spare rim 22.00-25/3.0 (for tires 26.5-25)</td>
<td></td>
</tr>
<tr>
<td>Tyres 29.5x25 VSDT</td>
<td></td>
</tr>
<tr>
<td>Boom suspension (ride control)</td>
<td></td>
</tr>
<tr>
<td>Integrated weighing system</td>
<td></td>
</tr>
<tr>
<td>Towing kit (incl. emergency steering hydraulic pump)</td>
<td></td>
</tr>
<tr>
<td>Accordance with CE-norms (CEN)</td>
<td></td>
</tr>
</tbody>
</table>
## GRADE PERFORMANCE

**AC 132 kW**

### Empty

<table>
<thead>
<tr>
<th>Percent grade</th>
<th>0.0</th>
<th>2.0</th>
<th>4.0</th>
<th>6.0</th>
<th>8.0</th>
<th>10.0</th>
<th>12.5</th>
<th>14.3</th>
<th>17.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ratio</td>
<td>1:12</td>
<td>1:10</td>
<td>1.8</td>
<td>1.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st gear (km/h)</td>
<td>4.1</td>
<td>4.0</td>
<td>3.9</td>
<td>3.8</td>
<td>3.8</td>
<td>3.7</td>
<td>3.6</td>
<td>3.6</td>
<td>3.5</td>
</tr>
<tr>
<td>2nd gear (km/h)</td>
<td>7.1</td>
<td>7.0</td>
<td>6.8</td>
<td>6.6</td>
<td>6.3</td>
<td>6.0</td>
<td>5.6</td>
<td>5.2</td>
<td>4.6</td>
</tr>
<tr>
<td>3rd gear (km/h)</td>
<td>12.3</td>
<td>11.7</td>
<td>11.0</td>
<td>9.9</td>
<td>8.6</td>
<td>7.3</td>
<td>5.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4th gear (km/h)</td>
<td>21.3</td>
<td>18.6</td>
<td>14.4</td>
<td>10.6</td>
<td>5.8</td>
<td></td>
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</table>

### Loaded

<table>
<thead>
<tr>
<th>Percent grade</th>
<th>0.0</th>
<th>2.0</th>
<th>4.0</th>
<th>6.0</th>
<th>8.0</th>
<th>10.0</th>
<th>12.5</th>
<th>14.3</th>
<th>17.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ratio</td>
<td>1:12</td>
<td>1:10</td>
<td>1.8</td>
<td>1.7</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1st gear (km/h)</td>
<td>4.0</td>
<td>3.9</td>
<td>3.8</td>
<td>3.8</td>
<td>3.7</td>
<td>3.6</td>
<td>3.4</td>
<td>3.3</td>
<td>3.1</td>
</tr>
<tr>
<td>2nd gear (km/h)</td>
<td>7.1</td>
<td>6.8</td>
<td>6.6</td>
<td>6.2</td>
<td>5.7</td>
<td>5.2</td>
<td>4.4</td>
<td>3.9</td>
<td>3.3</td>
</tr>
<tr>
<td>3rd gear (km/h)</td>
<td>12.1</td>
<td>11.2</td>
<td>9.8</td>
<td>8.0</td>
<td>6.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4th gear (km/h)</td>
<td>20.5</td>
<td>15.6</td>
<td>10.2</td>
<td></td>
<td></td>
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<tr>
<td>DIMENSIONS</td>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>------------</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bucket alternatives (m³)</td>
<td>4.6 m³</td>
<td>5.0 m³</td>
<td>5.4 m³</td>
<td>6.2 m³</td>
<td>7.0 m³</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Material broken density (kg/m³)</td>
<td>max. 3200 kg/m³</td>
<td>max. 2900 kg/m³</td>
<td>max. 2600 kg/m³</td>
<td>max. 2200 kg/m³</td>
<td>max. 1900 kg/m³</td>
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</tr>
<tr>
<td>Lip plate type</td>
<td>GET</td>
<td>GET</td>
<td>GET</td>
<td>GET</td>
<td>GET</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>L1 (mm)</td>
<td>11075</td>
<td>11193</td>
<td>11309</td>
<td>11479</td>
<td>11494</td>
<td></td>
<td></td>
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<tr>
<td>L2 (mm)</td>
<td>10800</td>
<td>10881</td>
<td>10960</td>
<td>11077</td>
<td>11087</td>
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<td></td>
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<tr>
<td>L3 (mm)</td>
<td>10402</td>
<td>10578</td>
<td>10578</td>
<td>10706</td>
<td>10719</td>
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<tr>
<td>L4 (mm)</td>
<td>3267</td>
<td>3348</td>
<td>3427</td>
<td>3544</td>
<td>2708</td>
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</tr>
<tr>
<td>L5 (mm)</td>
<td>1800</td>
<td>1800</td>
<td>1800</td>
<td>1800</td>
<td>1800</td>
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<tr>
<td>L6 (mm)</td>
<td>1850</td>
<td>1850</td>
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<td>1850</td>
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<tr>
<td>L7 (mm)</td>
<td>3883</td>
<td>3883</td>
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<td>3883</td>
<td>3883</td>
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<tr>
<td>L8 (mm)</td>
<td>2408</td>
<td>2502</td>
<td>2595</td>
<td>2730</td>
<td>2742</td>
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</tr>
<tr>
<td>L9 (mm)</td>
<td>3010</td>
<td>3128</td>
<td>3243</td>
<td>3413</td>
<td>3429</td>
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<tr>
<td>L10 (mm)</td>
<td>2690</td>
<td>2770</td>
<td>2848</td>
<td>2962</td>
<td>2971</td>
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<tr>
<td>H1, CC517 (mm)</td>
<td>2545</td>
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