**Operating capacities, weights and dimensions**

<table>
<thead>
<tr>
<th></th>
<th>Standard lift</th>
<th>High lift</th>
<th>Super high lift</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket capacity</td>
<td>40.52 m³</td>
<td>38.23 m³</td>
<td>53.5 m³</td>
</tr>
<tr>
<td>Operating payload</td>
<td>72574 kg</td>
<td>68039 kg</td>
<td>54431 kg</td>
</tr>
<tr>
<td>Static tipping loads</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Straight</td>
<td>184300 kg</td>
<td>164200 kg</td>
<td>128751 kg</td>
</tr>
<tr>
<td>Full 42° turn</td>
<td>172100 kg</td>
<td>153300 kg</td>
<td>108884 kg</td>
</tr>
<tr>
<td>Breakout force</td>
<td>1173 kN</td>
<td>1290 kN</td>
<td>980 kN</td>
</tr>
<tr>
<td>Operating weight</td>
<td>266622 kg</td>
<td>272065 kg</td>
<td>276045 kg</td>
</tr>
</tbody>
</table>

**Note:** Standard rock bucket based on a material density of 1780 kg/m³ (3000 lb/yd³).
Super high lift data based on 70yd³ coal bucket - rock bucket data available upon request.

**Working ranges**

<table>
<thead>
<tr>
<th></th>
<th>1715 kW</th>
<th>2300 hp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payload</td>
<td>72574 kg</td>
<td>68039 kg</td>
</tr>
<tr>
<td>Standard</td>
<td>160000 lb</td>
<td>150000 lb</td>
</tr>
<tr>
<td>High lift</td>
<td>160000 lb</td>
<td>150000 lb</td>
</tr>
<tr>
<td>Super high lift</td>
<td>160000 lb</td>
<td>150000 lb</td>
</tr>
</tbody>
</table>

Bucket capacity sized to material density
Truck match          | 290 - 363+ tonne | 320 - 400+ ton |
Power module

**Diesel power options**

<table>
<thead>
<tr>
<th>MTU Detroit diesel engine</th>
<th>Tier 1, Tier 2</th>
<th>Tier 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 4</td>
<td>16 V series 4000</td>
<td>12 V series 4000</td>
</tr>
<tr>
<td>16 cylinders</td>
<td>12 cylinders</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>4-cylinder turbocharged</td>
<td></td>
</tr>
<tr>
<td>Rated power</td>
<td>1755 kW (2300 hp)</td>
<td>1800 rpm</td>
</tr>
</tbody>
</table>

Cummins diesel engine

<table>
<thead>
<tr>
<th>Model</th>
<th>Tier 2 or Tier 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>G35-60</td>
<td>16 cylinders</td>
</tr>
<tr>
<td>Type</td>
<td>4-cylinder turbocharged</td>
</tr>
<tr>
<td>Rated power</td>
<td>1755 kW (2300 hp)</td>
</tr>
</tbody>
</table>

The independent power module mounting system, consisting of the engine coupled to the SR generator, is cradled within the rear frame by a three-point isolation system.

**Radiator/oil cooler module**

- Replaces tube type, side-by-side split flow
- Thermostatically controlled, variable speed hydraulic motor-driven, radiator-mounted fan
- Auxiliary oil cooler available for high ambient conditions

**Exhaust system**

Dual, low restriction mufflers with vertical, mid-hood discharge

Control system-LINCS II

**LINCS II**

Micronprocessor based modular design Vehicle Control Unit (VCU) with monitoring and diagnostics including integrated data logging and storage.

LINCS II uses a dash mounted full color, touch screen display as the operator interface. Out-of-range conditions will cause an audible alarm along with a message screen that is color coded to indicate severity.

In addition, the touch screen display provides repair technicians with operational data and fault messages.

**LINCS II load weigh**

Displays real-time load per pass, per truck and total loads
- Memory capable of retaining months of production information
- Capable of interfacing with radio dispatch systems for real-time monitoring

Steering and hoisting system

**Steering**

Steering function is controlled by a single joystick. Constant engine rpm assures full hydraulic steering response.

- Hoist and bucket control
- Auxiliary oil cooler available for high ambient conditions

**Primary brake system**

Electric dynamic braking system is controlled from the accelerator pedal and can bring the loader to a full stop without application of mechanical brakes.

**Air filtration**

Primary

- P&H self cleaning Klenz filtration system
- 99.9% efficiency remaining to 0.3 microns (nominal)
- Extends maintenance intervals
- Filtered air for engine, drive system cooling and pressurized cab

Secondary

- Dual safety filters for engine

**Fluid capacities**

- Fuel: 4940 L
- Hydraulics: 1448 L
- SR converter cooling system: 195 L
- Engine cooling system: 492 L
- Crane/Rocom (includes filters): 80 L
- Cummins: 206 L
- Gearbox: 204 L
- Planetary leak: 27 L
- 150 L

**Structural**

Frames are fabricated from high strength, low alloy steel with excellent weld characteristics and extreme low temperature properties. The front axle is an integral, fixed part of the front frame. The rear axle center overhang is 12.5 degrees.

Unique forged ball and socket joints are utilized in multiple locations (lift arms, rear axle, frame articulation, hoist cylinders). These joints are superior in absorbing and distributing multi-directional stresses. Features easily replaceable brass liners for long life and ease maintenance.

High strength coatings are used in key areas of fabricated structures to reduce stress and improve structural life.

**Power module**

SR Hybrid Drive switched reluctance (SR) technology

- Switched reluctance drive (SR) technology
- 80 commutator, brushes or rotor windings on SR motors or generator
- Hybrid regenerative energy storage for improved fuel economy
- Parts commonality - power conversion modules identifiable for motor and generator

**Tread speed**

Forward and reverse 0-10.31 km/h (0-6.2 mph)

**Generator**

- 0.85 kW SR generator

**Traction motors**

- B60 SR motor
- SR all wheel drive (SRD) motor for each wheel

**Planetary gearing**

- Model 57
- In-line gear train mounted within the rim of the tire, transmitting power from the traction motor through the tire/rim assembly.
- A four-stage planetary drive unit in each position
- Total reduction 9:1

**Hydraulic system**

**UPD drive box**

- Pressurized, cooled, and filtered lubrication
- Vickers 1:1

**Pumps** (maximum flow rate at 1000 rpm)

- Main
  - Piston (4) 1810 L/min 494 gpm
  - Steering
    - Piston (2) 468 L/min 124 gpm
  - Accessory
    - Piston 81 L/min 21 gpm
- Tier one engine
  - Fan/blower drive
    - Tandem piston 171/171 l/min 45/45 gpm
- Tier two engine
  - Fan/blower drive
    - Piston 215 L/min 62 gpm
  - Blower
    - Piston 171 L/min 45 gpm

**Cooling system**

- Circulating pump
  - Vane 409 L/min 108 gpm
- Aux. cooling pump
  - Piston 81 L/min 21 gpm

**Valves**

- Main
  - Three (3) 700 l/min 185 gpm
  - Pump pressure
    - 2750 KPa 4000 psi
- Steering
  - Osum (1) 341 L/min 90 gpm
  - Pump pressure
    - 2750 KPa 4000 psi

**Cylinders**

- Double-acting, single-stage (Hammar and stroke), (standard and high lift)
  - Hoist
    - 406 mm x 2108 mm 16 x 83 in
  - Bucket
    - 317.5 mm x 1086 mm 12.5 x 42.75 in
  - Steer
    - 191 mm x 262 mm 7.5 x 10.3 in

**Breaking system**

**Primary brake system**

Electric dynamic braking system is controlled from the accelerator pedal and can bring the loader to a full stop without application of mechanical brakes.

**Secondary brake system**

Air modulated traction motor speed disc brakes
- Single disc and caliper on each traction motor (4)
- Emergency fail safe brakes are spring applied in the event of air pressure loss

**Parking brake system**

Spring applied, air release traction motor speed disc brakes

**Overall dimensions**

<table>
<thead>
<tr>
<th></th>
<th>Standard lift</th>
<th>High lift</th>
<th>Super high lift</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Tread</td>
<td>5.0 m</td>
<td>16 ft</td>
</tr>
<tr>
<td>B</td>
<td>Width outside tires</td>
<td>6.76 m</td>
<td>22 ft</td>
</tr>
<tr>
<td>C1</td>
<td>Rock bucket without deflectors</td>
<td>7.01 m</td>
<td>23 ft</td>
</tr>
<tr>
<td>C2</td>
<td>Rock bucket with deflectors</td>
<td>7.58 m</td>
<td>24 ft 10 in</td>
</tr>
<tr>
<td>C3</td>
<td>Coal bucket</td>
<td>8.36 m</td>
<td>27 ft</td>
</tr>
<tr>
<td>D</td>
<td>Height bucket fully raised</td>
<td>13.39 m</td>
<td>43 ft 11 in</td>
</tr>
<tr>
<td>E</td>
<td>Hinge – pin height</td>
<td>9.91 m</td>
<td>32 ft</td>
</tr>
<tr>
<td>F</td>
<td>Dump clearance</td>
<td>7.03 m</td>
<td>23 ft</td>
</tr>
<tr>
<td>G</td>
<td>Reach at full lift</td>
<td>3.18 m</td>
<td>10 ft</td>
</tr>
<tr>
<td>H</td>
<td>Digging depth</td>
<td>0.25 m</td>
<td>10 in</td>
</tr>
<tr>
<td>I</td>
<td>Ground clearance</td>
<td>0.90 m</td>
<td>3 ft 6 in</td>
</tr>
<tr>
<td>J</td>
<td>Wheelbase</td>
<td>7.88 m</td>
<td>25 ft 10 in</td>
</tr>
<tr>
<td>K</td>
<td>Overall length</td>
<td>15.87 m</td>
<td>51 ft 5 in</td>
</tr>
<tr>
<td>L</td>
<td>Overall length</td>
<td>20.27 m</td>
<td>66 ft 0 in</td>
</tr>
<tr>
<td>M</td>
<td>Height over cab</td>
<td>6.73 m</td>
<td>22 ft 1 in</td>
</tr>
</tbody>
</table>

*All dimensions are based on standard tires and standard rock bucket with GET unless otherwise noted.**
Tires/rims

<table>
<thead>
<tr>
<th>Tires</th>
<th>70/70-57</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rims</td>
<td>60 x 57 with 6” flange</td>
</tr>
</tbody>
</table>

Optional features

- Auxiliary steering
- Beacon light kit
- Bucket GET options available
- Central service with fast fuel
- Cold weather package – including:
  - Battery heater
  - Engine heating system (oil and water)
  - Grease reservoir heater
  - Hydraulic tank heater
- Exhaust discharge guard
- Fast fuel
- Fire detection and suppression system (manual)
- Fire suppression system (manual)
- Fluid sampling kit
- Lift arms – high lift
- Training seat (with lap belt)
- Video camera (rear mount)
- Windshield protection kit

Standard features

- Access ladder lights
- Air clean-out hose in cab
- Air conditioning / heater-defroster (filtered and pressurized)
- Air dryer system
- Air horn
- Air tank bleed system
- Adjustable automatic lift height cut off
- Automatic bucket leveling control
- Automatic electrical cabinet lights
- Automatic lubrication system
- Auxiliary hydraulic oil cooler
- Back-up alarm, audible
- Battery disconnect switch
- Brake lights
- Central air regulator box
- Data analysis and viewing software
- Data logging – downloadable production and maintenance logs
- Door interlock on electrical cabinet
- Drawbar with tow points
- Emergency stop buttons (cab and remote mounted)
- Engine compartment lights
- Fire extinguisher, manual, 9.07 kg (20 lb)
- FOPS – falling object protection system
- Idle timer
- Interior lights
- Isolation monitor
- Joystick hoist and bucket control
- Joystick steering control
- Jump start
- Ladder walkway (rear access w/retracting ladder)
- LED working lights (10 forward, 2 rear)
- LINCS II alarms
- LINCS II load weigh and monitoring
- Mirrors, rearview (parabolic)(2)
- Operator seat (11-way adjustable)
- Overspeed alarm
- Parking brake
- Retractable lap belt with shoulder harness
- Rock deflectors (bucket)
- ROPS – rollover protection structure
- Selectable throttle switch
- Starter disconnect switch
- Sun visor
- Tinted safety glass throughout
- Turn signals
- Twelve (12) volt power supply in cab
- Twelve (12) volt power port (2)
- Walk around catwalk for cab
- Windshield washer reservoir (2.6 gal)
- Windshield wiper and washer (front and rear)

Buckets

- Standard, ISO-rated capacity: 72574 kg / 160000 lb
- High lift, ISO-rated capacity: 68039 kg / 150000 lb
- Super high lift, ISO-rated capacity: 54431 kg / 120000 lb

Rock and coal bucket configurations available

Buckets sized to material density

Bucket hardware options

- Skid plates (replaceable)
- Lip wear protection
- Wear liner kits

For actual bucket configuration and sizing, consult your local representative.