AT A GLANCE

Weights & Dimensions:

<table>
<thead>
<tr>
<th>Weight</th>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Weight:</td>
<td>32,000 lbs</td>
</tr>
<tr>
<td>Overall Tramming Length</td>
<td>31'-8&quot;</td>
</tr>
<tr>
<td>Overall Width</td>
<td>7'-3&quot;</td>
</tr>
<tr>
<td>Tramming Height</td>
<td>7'-10&quot;</td>
</tr>
<tr>
<td>Carrier Articulation</td>
<td>+/- 45°</td>
</tr>
<tr>
<td>Inside Turning Radius</td>
<td>13'-10&quot;</td>
</tr>
</tbody>
</table>

Outside Turning Radius 23'-0" (7.01m)

Note: weights & dimensions are nominal and vary depending on final engine, operator’s enclosure & option configuration.

Engine Configurations:

- Deutz BF4M1013C  (Standard)
- Caterpillar C4.4 ACERT (Optional)
  - 122HP @ 2300 rpm
  - 127HP @ 2200 rpm
  - Tier II

Personnel Capacity:

- 20 + Operator, + Optional Passenger seat

Features & Benefits:

- High speed / high mobility underground personnel vehicle.
- +/-45° vehicle articulation for tight turning radius.
- Separate torque converter / transmission package provides low profile engine shroud height for improved operator visibility.
- Mid-ship operator compartment provides good visibility for trampling in both directions.

Options:

- Protective operator structure
- Seating configurations
- Air intake system
- Personnel canopy, plexiglass windows and interior lighting
- Personnel seating
- Exhaust system
- Fuel filling system
- Hydraulic filling system
- Tires
- Fire suppression system
- Wheel chocks

Dimensions:

- Personnel Capacity Bench Seating with Backrests
  - 7'-3" x 17'-4" (2.2m x 5.3m)

- Rear Deck Area
  - 7'-3" x 17'-4" (2.2m x 5.3m)

- Personnel Carrier Vehicle

- Deutz 31'-8" (9.7m)
- CAT 32'-6" (9.9m)

- Tramming Length

- Floor Height
  - 6'-5" (1.9m)
  - 3'-11" (1.2m)

- Wheel chocks

- Tires

- Fire suppression system

10349-ENG-0509
Personnel Capacity: 20
(Based on SAE 50th Percentile Man)
+ Operator; + Optional Passenger Seat

Bench Seating
with Back Rests; 2" (50 mm) Foam Padding
Black Vinyl Covering

Three-point Access into Passenger Area at Rear
### DRIVING SPECIFICATIONS

#### Turning Radius

**Turning radius:** +/- 45° articulation

<table>
<thead>
<tr>
<th></th>
<th>Deutz</th>
<th>Caterpillar</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Outside Turning Radius</td>
<td>23'-0&quot; (7.01m)</td>
</tr>
<tr>
<td>B</td>
<td>Inside Turning Radius</td>
<td>13'-10&quot; (4.21m)</td>
</tr>
<tr>
<td>C</td>
<td>Minimum Mine Tunnel Width</td>
<td>11'-10&quot; (3.61m)</td>
</tr>
</tbody>
</table>

#### Recommended Drift Height

BTI recommends a minimum drift height with cab: 9’-10” (3m)

### LP15 CARRIER - COMMON FEATURES

- **Standard - common to all engine combinations**
- **Optional**

**Notes:**

- CHASSIS
  - LP15 articulated 4-wheel drive, all welded construction

- ENGINE END OSCILLATION
  - +/- 8° c/w heavy framed external walking beam

- CARRIER ARTICULATION
  - +/- 45° by two opposing 4” (100mm) bore x 2” (50mm) rod steering cylinders complete with stick steering control

- HYDRAULIC CIRCUIT
  - 50 gallon (189 liter) hydraulic tank
  - Hydraulic piston pump with load sense control
  - In-line hydraulic pressure filter / In-line return filter

- ELECTRICAL CIRCUIT
  - 24 VDC start/run 100 amp alternator
  - Murphy Power Vu instrument cluster for electronic engines
  - Two LED red tram marker lights & two 70 watt halogen head lights on engine end
  - Two LED red tram marker lights & two 70 watt halogen head lights on deck end

- PERSONNEL CAPACITY
  - Personnel capacity of 20 based on SAE 50th percentile man + Operator, + Optional Passenger Seat

- LADDER ACCESS
  - Three point ladder access at rear
PC (LP15) PERSONNEL VEHICLE CONFIGURATIONS

Notes: ____________________________________________________________

Choose one per group
● Standard  △ Optional

POWERTRAIN GROUPS
● Deutz BF4M1013C
△ Caterpillar C4.4 ACERT

PROTECTIVE STRUCTURE
● Dual compartments for operator and passenger, no protective enclosure
△ ROPS/FOPS certified canopy - open air
△ ROPS/FOPS certified fully enclosed cab full width. Engine belt driven HVAC heat/air conditioner for engine driven applications

OPERATOR SEAT
● Suspension Seat, fixed
△ Air Ride Seat, fixed

PASSENGER SEAT
● No passenger seat
△ Suspension Seat, fixed
△ Air Ride Seat, fixed

PERSONNEL CANOPY
● No personnel canopy
△ Bolt-on personnel canopy - tubular construction - for personnel overhead protection

WINDOWS
● No windows - open air
△ Personnel canopy fitted with shock absorbing plexiglass windows to protect personnel from elements outside the carrying area
  (only available with canopy option)

FOLDABLE BENCH SEATING
● Fixed personnel bench seating
△ Foldable bench seating in personnel section, allowing extra cargo space when not transporting personnel

INTERIOR LIGHTING
● No interior lighting
△ Qty of 2 - 24 volt 70 watt halogen lamp interior lights for personnel carrying area
  (only available with canopy option)

AIR INTAKE SYSTEM
● Air Intake Filter
△ Air Intake Precleaner

EXHAUST SYSTEM
● Catalytic exhaust
△ Exhaust Manifold and Turbo Coating
△ Exhaust System Wrap

FUEL SYSTEM
● Fuel Tank - 50 gallon (189 liter)
△ Fuel Tank with Fast Fill - 50 gallon (189 liter)
FL (LP15) CARRIER CONFIGURATIONS

Choose one per group

- Standard
- Optional

Notes:

---

HYDRAULIC TANK

- Hydraulic Tank - 50 gallon (189 liter)
- ▲ Hydraulic Tank with Fast Fill - 50 gallon (189 liter)

TIRES

- Pneumatic 12:00 x 20; 20 ply mine lug
- ▲ Solid: 12:00 x 20
- ▲ Foam Filled: 12:00 x 20
- ▲ Solid: 10:00 x 20

FIRE SUPPRESSION SYSTEM

- No fire suppression
- ▲ Fire Extinguisher, 1 x 20 lb (9kg)
- ▲ Ansul Fire Suppression System
- ▲ Ansul Fire Suppression with Auto Detection

WHEEL CHOCKS

- No wheel chocks
- ▲ Aluminum Wheel Chocks
POWERTRAIN GROUP OPTIONS

- **Engine:** Deutz BF4M1013C, four cylinder, turbocharged, intercooled Diesel, MSHA, Tier II, 122 HP @ 2300 RPM c/w fuel filter and water separator

  **Torque Converter:** Clark C2000 series

  **Transmission:** Clark 20,000 series, long drop, remote mounted, electric shift

  Three forward and three reverse speeds

  Vehicle speeds with 12.00 x 20 tires @ 2200 rpm with standard axle ratio:

  1st gear: 2.4 mph (3.9 kph) - 2nd gear: 6.2 mph (10.9 kph) - 3rd gear: 11.4 mph (18.3 kph)

- **Engine end axle:** New Holland D65I no spin differential wet disk SAHR emergency brakes, wet disk HASR service brakes, complete with external walking beam, +/- 8 degrees oscillation

- **Boom end axle:** New Holland D65I no spin differential wet disk SAHR emergency brakes, wet disk HASR service brakes

- **Drivelines:** Mechanics 6C and 7C

PROTECTIVE STRUCTURES OPTIONS

- **Engine:** Caterpillar C4.4 ACERT electronic four cylinder, turbocharged, intercooled Diesel, Tier III, 127 HP @ 2200 RPM c/w fuel filter and water separator.

  **Torque Converter:** Clark C2000 series

  **Transmission:** Clark 20,000 series, long drop, remote mounted, electric shift

  Three forward and three reverse speeds

  Vehicle speeds with 12.00 x 20 tires @ 2200 rpm with standard axle ratio:

  1st gear: 2.4 mph (3.9 kph) - 2nd gear: 6.2 mph (10.9 kph) - 3rd gear: 11.4 mph (18.3 kph)

- **Engine end axle:** New Holland D65I no spin differential wet disk SAHR emergency brakes, wet disk HASR service brakes, complete with external walking beam, +/- 8 degrees oscillation

- **Boom end axle:** New Holland D65I no spin differential wet disk SAHR emergency brakes, wet disk HASR service brakes

- **Drivelines:** Mechanics 6C and 7C

- **Standard Operator Compartment**

  Standard dual compartments for operator and passenger.
PROTECTIVE STRUCTURES OPTIONS

- Standard
- Optional

▲ ROPS/FOPS Canopy
ROPS/FOPS certified 100" configuration, open air.

▲ ROPS/FOPS Cab
Full cab; covers operator, controls and passenger. Tested and certified ROPS/FOPS cab, complete with guard bars to help protect operator and passenger from dangerous fly-rock. Includes heavy-duty safety glass, wiper/washers, HVAC heat / air conditioning system, air pressurization system.

OPERATOR SEAT OPTIONS

Operator Seat Options
- Suspension Seat, fixed
- Air Ride Seat, fixed

Mine duty operator seat options available in fixed suspension and fixed air ride variations.

PASSENGER SEAT OPTIONS

- No Passenger Seat

Passenger Seat Options
- Suspension Seat, fixed (facing front)
- Air Ride Seat, fixed (facing front)

Mine duty passenger seat options available in fixed suspension and fixed air ride variations.
AIR INTAKE SYSTEM OPTIONS

- **Air Intake Filter**
  A dry element filter with safety element and replacement indicator.

- **Air Intake Precleaner**
  A dry element filter with safety element and replacement indicator, complete with a cyclone Pre-cleaner.

  A pre-cleaner extends the life of your air filter by removing dirt and contaminants before they reach the filter and ejecting them automatically via the exhaust.

EXHAUST SYSTEM OPTIONS

- **Catalytic Exhaust**
  A catalytic exhaust, purifier/silencer. No exhaust blanket.

- **Exhaust Manifold and Turbo Coating**
  Prevents fluids from igniting on hot engine and exhaust parts. High temperature performance: ideal for engine compartment components requiring long-term exposure to high temperatures.

  Non-flammable. Protects personnel from burns.

  Lowers ambient temperature; cooler engine compartment, less heat stress on operators and maintenance personnel.

- **Exhaust System Wrap**
  Prevents fluids from igniting on exhaust parts. High temperature performance.

  Non-flammable. Protects personnel from burns.

  Lowers ambient temperature; cooler engine compartment, less heat stress on operators and maintenance personnel.

FUEL TANK OPTIONS

- **Fuel Tank**
  50 gallon (189 liter) fuel tank, top fill.

- **Fuel Tank with Fast Fill**
  50 gallon (189 liter) fuel tank complete with fast filling system. Designed for on-site fast fluid transfer.
HYDRAULIC TANK OPTIONS

- **Standard**
- **Optional**

- **Hydraulic Tank**
  50 gallon (189 liter) hydraulic tank, top fill, 4 psi pressurized cap.

- **Hydraulic Tank with Fast Fill**
  50 gallon (189 liter) hydraulic tank complete with fast filling system. Designed for on-site fast fluid transfer.

TIRE OPTIONS

- **Pneumatic Tires**
  12:00 x 20; 20 ply mine lug pneumatic tires

- **Solid Tires**
  12:00 x 20 solid tires

- **Foam Filled Tires**
  12:00 x 20 foam filled tires

- **Solid Tires**
  10:00 x 20 solid tires

FIRE SUPPRESSION SYSTEM OPTIONS

- **No Fire Suppression System**

- **Fire Extinguisher**
  1 x 20 lb (9 kg) fire extinguisher.

- **Ansul Fire Suppression**
  Ansul fire suppression system, 6 nozzle, complete with 2 actuators. Complete with 20lb (9 kg) fire extinguisher.

- **Ansul Fire Suppression with Detection**
  Ansul fire suppression system, 6 nozzle, complete with 2 actuators. Includes a check fire detection and activation system. Complete with 20lb (9 kg) fire extinguisher.
WHEEL CHOCK OPTIONS

- No Wheel Chocks

- Wheel Chocks - aluminum
  complete with holder

PERSONNEL CANOPY OPTIONS

- No Personnel Canopy

- Personnel Canopy
  Bolt-on personnel canopy - tubular construction - for personnel overhead protection

WINDOW OPTIONS

- No Windows - open air

- Windows
  Personnel canopy fitted with shock absorbing plexiglass windows (only available with canopy option)

FOLDABLE SEATING OPTIONS

- Fixed Bench Seating

- Foldable Bench Seating
  Allows for extra cargo space, when not transporting personnel.
INTERIOR LIGHTING OPTIONS

- No Interior Lighting

- Qty of 2 - 70 watt interior lights
  Interior lighting for personnel carrying area
  Halogen lamp 24 volt 70 watt
  (only available with canopy option)

All dimensions and specifications are subject to change without notice.