AT A GLANCE

Weights & Dimensions:
- Operating Weight: 26,000 lbs (11,818 kg)
- Overall Tramming Length: 29'-8" (9.05 m)
- Overall Width: 7'-3" (2.2 m)
- Tramming Height: 7'-6" (2.28 m)
- Carrier Articulation: +/- 45°
- Inside Turning Radius: 12'-1" (3.68 m)
- Outside Turning Radius: 20'-11" (6.38 m)

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

Engine Configurations:
- Deutz BF4M1013C: 122 hp (91 kW) @ 2300 rpm
- Caterpillar C4.4 ACERT: 127 hp (95 kW) @ 2200 rpm

Personnel Capacity
- 20 + Operator; + Opt. Passenger seat

Bench Seating with Backrests
Three Point Access into Rear Passenger Area

Rear Deck Area
- 7'-3" x 16'-10" (2.2 m x 5.14 m)

FEATURES & BENEFITS

High speed / high mobility underground personnel carrier vehicle.

+/-45° vehicle articulation for tight turning radius.

Close coupled engine/transverter provides a short turning radius and excellent weight distribution.

Operator’s compartment provides comfort and visibility for operator and passenger.

OPTIONS

Protective operator structure
Seating configurations
Air intake system
Exhaust system
Hydraulic filling system
Tires
Fire suppression system
Wheel chocks
Rear deck lighting
Passenger canopy
Plexiglass windows
Foldable rear seating
PC SERIES (LP12) PERSONNEL CARRIER COMPONENTS

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

View A-A

DRIVING SPECIFICATIONS

Turning Radius
Turning radius: +/- 45° articulation

<table>
<thead>
<tr>
<th></th>
<th>Fully Enclosed Cab</th>
<th>Open Air Canopy</th>
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<tbody>
<tr>
<td>A Outside Turning Radius</td>
<td>20’-11” (6.38 m)</td>
<td>20’-8” (6.3 m)</td>
</tr>
<tr>
<td>B Inside Turning Radius</td>
<td>12’-1” (3.68 m)</td>
<td></td>
</tr>
<tr>
<td>C Minimum Mine Tunnel Width</td>
<td>11’-1” (3.36 m)</td>
<td>10’-9” (3.29 m)</td>
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Recommended Drift Height
BTI recommends a minimum drift height with cab: 9’-10” (3 m)
### LP12 CARRIER - COMMON FEATURES

- **CHASSIS**
  - LP12 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" (100 mm) bore x 2" (50 mm) rod steering cylinders complete with slick steering control

- **HYDRAULIC CIRCUIT**
  - 30 gallon (114 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 85 amp alternator
  - Murphy Power Vu instrument cluster for electronic engines

- **FUEL SYSTEM**
  - Fuel Tank - 30 gallon (114 liter)

### PC (LP12) CARRIER CONFIGURATIONS

Choose one per group

- **POWERTRAIN GROUPS**
  - Deutz BF4M1013C
  - Caterpillar C4.4 ACERT

- **OPERATOR SEAT**
  - Suspension Seat, fixed
  - Air Ride Seat, fixed

- **PASSENGER SEAT**
  - No passenger seat
  - Suspension Seat, fixed
  - Air Ride Seat, fixed

- **PROTECTIVE STRUCTURE**
  - Air canopy – uncertified, open
  - Open air canopy – ROPS/FOPS certified
  - Enclosed Cab – ROPS/FOPS certified including engine belt drive HVAC heat/air conditioner for engine drive applications
### PC (LP12) CARRIER CONFIGURATIONS

**Choose one per group**  
- **Standard**  
- **Optional**

#### Notes:

- AIR INTAKE SYSTEM
  - Air Intake Filter
  - Air Intake Precleaner

- EXHAUST SYSTEM
  - Catalytic exhaust
  - Exhaust Manifold and Turbo Coating
  - Exhaust System Wrap

- HYDRAULIC TANK
  - Hydraulic Tank - 30 gallon (114 liter)
  - Hydraulic Tank with Fast Fill - 30 gallon (114 liter)

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

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

- WHEEL CHOCKS
  - No wheel chocks
  - Aluminum Wheel Chocks

- CANOPY OPTIONS
  - No Canopy
  - Canopy
  - Bolt-on Personnel Canopy
  - Tubular construction for overhead protection

- CANOPY INTERIOR LIGHTING
  - No lights
  - Qty 2 x 70W Deck Lights - Halogen lamp 24V 70 watt

- FOLDABLE SEATING OPTION
  - No Foldable Seating
  - Foldable Seating - allows for extra cargo space

- PLEXIGLASS WINDOW OPTION
  - No Plexiglass Windows
  - Plexiglass Windows
  - Personnel canopy fitted with shock-absorbing plexiglass windows to protect personnel from elements outside the carrying area.
  - Only available with Canopy Option.
POWERTRAIN GROUP OPTIONS

- **Engine**: Deutz BF4M1013C, four cylinder, turbocharged, intercooled diesel, MSHA Tier II, 122 hp (91 kW) @ 2300 rpm c/w fuel filter and water separator.

- **Torque Converter**: Clark T20000 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 D65X no spin differential wet disk SAHR emergency brakes, wet disk HASR service brakes, complete with external walking beam, +/- 10 degrees oscillation

- **Deck end axle**: New Holland D65X no spin differential wet disk SAHR emergency brakes, wet disk HASR service brakes

- **Drivelines**: Mechanics 6C

- **Engine**: Caterpillar C4.4 ACERT electronic four cylinder, turbocharged, intercooled diesel, Tier III, 127 hp (95 kW) @ 2200 rpm c/w fuel filter and water separator.

- **Torque Converter**: Clark T20000 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:

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- **Engine end axle**: New Holland D65X no spin differential wet disk SAHR emergency brakes, wet disk HASR service brakes, complete with external walking beam, +/- 10 degrees oscillation

- **Deck end axle**: New Holland D65X no spin differential wet disk SAHR emergency brakes, wet disk HASR service brakes

- **Drivelines**: Mechanics 6C

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.
**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.

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**PASSENGER SEAT OPTIONS**

- **No Passenger Seat**

Passenger Seat Options

- **Suspension Seat, fixed**
- **Air Ride Seat, fixed**

Mine duty passenger seat option available in fixed suspension and fixed air ride variations.

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**PROTECTIVE STRUCTURES OPTIONS**

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

- **Open Air Canopy – Uncertified**

- **ROPS/FOPS Canopy**
  
  Open air canopy ROPS/FOPS certified

- **ROPS/FOPS Cab**

  Full cab; covers operator, controls and passenger. Tested and certified ROPS/FOPS cab. Includes heavy-duty safety glass, wiper/washers, HVAC heat / air conditioning system, air pressurization system.

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7'-4" (2.24 m)  
10.00x20 tires

7'-6" (2.29 m)  
12.00x20 tires
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.

HYDRAULIC TANK OPTIONS

- **Hydraulic Tank**
  30 gallon (114 liter) hydraulic tank, top fill, 4 psi pressurized cap.

- **Hydraulic Tank with Fast Fill**
  30 gallon (114 liter) hydraulic tank complete with fast filling system. Designed for on-site fast fluid transfer.
CANOPY OPTIONS

- No Canopy
- Canopy
  Bolt-on Personnel Canopy
  Tubular construction for overhead protection

FOLDABLE SEATING OPTIONS

- No Foldable Seating Option
- Foldable Seating Option
  Foldable seating option allows for extra cargo space

PLEXIGLASS WINDOW OPTIONS

- No Plexiglass Windows
- Plexiglass Windows
  Personnel canopy fitted with shock-absorbing plexiglass windows to protect personnel from elements outside the carrying area. Only available with Canopy Option.

INTERIOR LIGHTING OPTIONS

- No Interior Lighting
- Interior Lighting
  Interior lighting for personnel carrying area.
  2 x Halogen lamps – 24V, 70 watt.
  Only available with canopy Option.
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 20 lb (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 20 lb (9 kg) fire extinguisher.

WHEEL CHOCK OPTIONS

- No Wheel Chocks

- Wheel Chocks - aluminum
  complete with holder