AT A GLANCE

Weights & Dimensions:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Weight</td>
<td>43,500 lbs (19,773 kg)</td>
</tr>
<tr>
<td>Overall Tramming Length</td>
<td>29'-2&quot; (8.88 m)</td>
</tr>
<tr>
<td>Carrier Articulation</td>
<td>+/- 45°</td>
</tr>
<tr>
<td>Inside Turning Radius</td>
<td>12'-4&quot; (3.75 m)</td>
</tr>
<tr>
<td>Tramming Height</td>
<td>7'-6&quot; (2.28 m)</td>
</tr>
<tr>
<td>Outside Turning Radius</td>
<td>21'-0&quot; (6.39 m)</td>
</tr>
</tbody>
</table>

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

Engine Configurations:

- Deutz BF4M1013C
- Caterpillar C4.4 ACERT

122 hp (91 kW) @ 2300 rpm
127 hp (95 kW) @ 2200 rpm

MSHA/Tier II Tier III

Remixer Drum – 5.2 yd³ (4.0 m³)

Discharge Rate: 3.92 yd³ (3.0 m³) per minute

Hydraulically Operated Discharge Door

Rotations/minute: 0 – 14 (both directions)

FEATURES & BENEFITS

High speed / high mobility underground shotcrete transfer 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
- Stabilizer jacks
- Catwalk
- Pressure washer
- Discharge chute
SCT SERIES (LP12) SHOTCRETE CARRIER COMPONENTS

DRIVING SPECIFICATIONS

Turning Radius
Turning radius: +/- 45° articulation

<table>
<thead>
<tr>
<th></th>
<th>Fully Enclosed Cab</th>
<th>Open Air Canopy</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Outside Turning Radius</td>
<td>21'-0&quot; (6.39 m)</td>
<td>20'-6&quot; (6.25 m)</td>
</tr>
<tr>
<td>B Inside Turning Radius</td>
<td>12'-4&quot; (3.75 m)</td>
<td></td>
</tr>
<tr>
<td>C Minimum Mine Tunnel Width</td>
<td>11'-1&quot; (3.36 m)</td>
<td>10'-9&quot; (3.29 m)</td>
</tr>
</tbody>
</table>

Recommended Drift Height
BTI recommends a minimum drift height with cab: 9'-10" (3 m)
### LP12 CARRIER - COMMON FEATURES

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHASSIS</strong></td>
<td>LP12 articulated 4-wheel drive, all welded construction</td>
</tr>
<tr>
<td><strong>ENGINE END OSCILLATION</strong></td>
<td>+/- 8° c/w heavy framed external walking beam</td>
</tr>
<tr>
<td><strong>CARRIER ARTICULATION</strong></td>
<td>+/- 45° by two opposing 4” (100 mm) bore x 2” (50 mm) rod steering cylinders complete with stick steering control</td>
</tr>
<tr>
<td><strong>HYDRAULIC CIRCUIT</strong></td>
<td>30 gallon (114 liter) hydraulic tank Hydraulic piston pump with load sense control In-line hydraulic pressure filter / In-line return filter</td>
</tr>
<tr>
<td><strong>ELECTRICAL CIRCUIT</strong></td>
<td>24 VDC start/run 85 amp alternator Murphy Power Vu instrument cluster for electronic engines</td>
</tr>
<tr>
<td><strong>FUEL SYSTEM</strong></td>
<td>Fuel Tank - 30 gallon (114 liter)</td>
</tr>
</tbody>
</table>

### SCT (LP12) SHOTCRETE TRANSFER VEHICLE CONFIGURATIONS

#### Choose one per group

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWERTRAIN GROUPS</strong></td>
<td>Deutz BF4M1013C Caterpillar C4.4 ACERT</td>
</tr>
<tr>
<td><strong>OPERATOR SEAT</strong></td>
<td>Suspension Seat, fixed Air Ride Seat, fixed</td>
</tr>
<tr>
<td><strong>PASSENGER SEAT</strong></td>
<td>No passenger seat Suspension Seat, fixed Air Ride Seat, fixed</td>
</tr>
<tr>
<td><strong>PROTECTIVE STRUCTURE</strong></td>
<td>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</td>
</tr>
<tr>
<td><strong>AIR INTAKE SYSTEM</strong></td>
<td>Air Intake Filter Air Intake Precleaner</td>
</tr>
<tr>
<td><strong>EXHAUST SYSTEM</strong></td>
<td>Catalytic exhaust Exhaust Manifold and Turbo Coating Exhaust System Wrap</td>
</tr>
</tbody>
</table>
SCT (LP12) SHOTCRETE TRANSFER VEHICLE CONFIGURATIONS

Choose one per group

Notes:

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 Suppression with Auto Detection

WHEEL CHOCKS
- No wheel chocks
- Aluminum Wheel Chocks

- Remixer Drum
  5.2 yd³ (4 m³)
  Hydraulically Operated Discharge Door

DISCHARGE CHUTE
- No Discharge Chute
- Discharge Chute Option
c/w hydraulic lift and swing (+/- 90 degree) functions

PRESSURE WASHER
- No Pressure Washer
- Pressure Washer Option
  On-board mounted hydraulic pressure washer
c/w 50' (15.2 m) hose and spray wand
  and 3/4" NPT hook-up for mine water (no tank)

Choose one or more from the following groups:

CATWALK
- No Catwalk
- Left-hand c/w fixed handrail/ladder at mixer discharge end
- Left-hand c/w removable handrail/ladder at mixer discharge end
- Right-hand c/w fixed handrail/ladder at mixer discharge end
- Right-hand c/w removable handrail/ladder at mixer discharge end

STABILIZERS
- No Stabilizers
- Engine-end Stabilizers; 2 x 17" (432 mm), tube in tube configuration
- Engine-end Stabilizers; 2 x 46" (1.17 m) tube in tube configuration
- Mixer-end Stabilizers; 2 x 17" (432 mm), tube in tube configuration
- Mixer-end Stabilizers; 2 x 46" (1.17 m) tube in tube configuration
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
  - 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
  - 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

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.
**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.

**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**

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

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

- Standard
- Optional

○ No Discharge Chute

△ Discharge Chute Option
c/w hydraulic lift and swing (+/- 90 degree) functions

PRESSURE WASHER OPTIONS

- Standard
- Optional

○ No Pressure Washer

△ Pressure Washer Option
On-board mounted hydraulic-driven pressure washer c/w 50’ (15.2 m) hose and spray wand and 3/4” NPT hook-up for mine water (no tank)
**RH CATWALK PLATFORM**

- **No Catwalk**

**Catwalk Options**

- Right-hand Catwalk c/w 3'-6" (1.07 m) tall fixed safety rail and access ladder
- Right-hand Catwalk c/w 3'-6" (1.07 m) tall folding safety rail and access ladder

The catwalk/platform structure allows the operator to quickly and safely access the drum hatches for filling and inspection.

The catwalk is complete with 3'-6" (1.07 m) tall safety rail and access ladder. It includes either a fixed or removable handrail/ladder at mixer discharge end.

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**LH CATWALK PLATFORM**

- **No Catwalk**

**Catwalk Options**

- Left-hand Catwalk c/w 3'-6" (1.07 m) tall safety rail and access ladder
- Left-hand Catwalk c/w 3'-6" (1.07 m) tall folding safety rail and access ladder

The catwalk/platform structure allows the operator to quickly and safely access the drum hatches for filling and inspection.

The catwalk is complete with 3'-6" (1.07 m) tall safety rail and access ladder. It includes either a fixed or removable handrail/ladder at mixer discharge end.
STABILIZER OPTIONS

- Standard
- Optional

- No Stabilizers

No stabilizers are needed if the mining application does not require stabilizers to lift the vehicle.

Stabilizers

- **Engine-end Stabilizers**: 2 x 17” (432 mm)
- **Engine-end Stabilizers**: 2 x 46” (1.17 m)
- **Mixer-end Stabilizers**: 2 x 17” (432 mm)
- **Mixer-end Stabilizers**: 2 x 46” (1.17 m)

Engine-end stabilizers enable you to keep the vehicle horizontal for better discharge of concrete when pointing down a ramp or incline.

Mixer-end stabilizers allow you to raise the mixer drum discharge higher, providing better clearance and angle when transferring concrete to the shotcrete sprayer. They permit levelling the vehicle on downgrades and make it convenient to raise the truck for changing flat tires.

### Turning Radius with Stabilizers

Turning radius: +/- 45° articulation

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<thead>
<tr>
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<th>Open Air Canopy</th>
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<tbody>
<tr>
<td><strong>A</strong></td>
<td>Outside Turning Radius</td>
<td>21’-5” (6.52 m)</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>Inside Turning Radius</td>
<td></td>
</tr>
<tr>
<td><strong>C</strong></td>
<td>Minimum Mine Tunnel Width</td>
<td>11’-4” (3.45 m)</td>
</tr>
</tbody>
</table>

All dimensions and specifications are subject to change without notice.