**AT A GLANCE**

**Weights & Dimensions:**

- **Operating Weight**: 31,000 lbs (14,091 kg)
- **Overall Tramming Length**: 27'-2" (8.29 m)
- **Overall Width**: 7'-0" (2.13 m)
- **Tramming Height**: 8'-4" (2.54 m)
- **Carrier Articulation**: +/- 45°
- **Inside Turning Radius**: 12'-1" (3.68 m)
- **Outside Turning Radius**: 21'-5" (6.52 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
  - MSHA/Tier II Tier III

- **Caterpillar C4.4 ACERT**
  - 127 hp (95 kW) @ 2200 rpm
  - Tier III

**Scissor Deck**

- **Load Capacity**: 5,000 lb (2,273 kg)
  - at 12'-0" (3.66 m) Lift Floor Height

**Dual Safety Lock Hydraulic Cylinders**

- **Handrails**: 42" (1.1 m)

**FEATURES & BENEFITS**

- High speed / high mobility underground scissorlift 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
- Manual lube
- Power pack
- Stabilizer jacks
- Air and water manifold
- Air/hydraulic power pack
- Telescopic work lights
- Drill steel rack
- Wood lined deck
- Scissorlift certification
- Fold-down handrails

10462-ENG-1009
SL SERIES (LP12) SCISSORLIFT STANDARD COMPONENTS

Platform controls

Scissor Deck
7'-0" x 12'-0" (2.13 m x 3.66 m)
c/w anti-slip deck material
Optional: wood lined deck
– 3" (76.2 mm) thick hardwood

Load Capacity:
5,000 lb (2,273 kg)
at 12'-0" (3.66 m) Lift Floor Height

Dual Safety Lock Hydraulic Cylinders
Scissor Arm Lock for Maintenance

Telescopic Ladder

Handrails 42" (1.1 m)
with 6" (150 mm) kick plate
Optional fold-down handrails

DRIVING SPECIFICATIONS

Turning Radius
Turning radius: +/- 45° articulation

<table>
<thead>
<tr>
<th>Side</th>
<th>Fully Enclosed Cab</th>
<th>Open Air Canopy</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Outside</td>
<td>21'-5&quot; (6.52 m)</td>
<td>20'-10&quot; (6.36 m)</td>
</tr>
<tr>
<td>Turning</td>
<td></td>
<td></td>
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<tr>
<td>Radius</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Inside</td>
<td>12'-1&quot; (3.7 m)</td>
<td></td>
</tr>
<tr>
<td>Turning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radius</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Minimum</td>
<td>11'-6&quot; (3.5 m)</td>
<td>11'-0&quot; (3.34 m)</td>
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<tr>
<td>Mine Tunnel</td>
<td></td>
<td></td>
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<tr>
<td>Width</td>
<td></td>
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Recommended Drift Height
BTI recommends a minimum drift height with cab: 9'-10" (3 m)
**LP12 CARRIER - COMMON FEATURES**

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

**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 stick 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)

**SCISSORLIFT DECK**
- 7'-0" x 12'-0" (2.13 m x 3.66 m) anti-slip deck material
- 5,000 lb (2,273 kg) capacity at 12'-0" (3.66 m) lift floor height
- c/w a telescopic ladder, a scissor arm lock for maintenance and platform controls

**SL (LP12) SCISSORLIFT VEHICLE CONFIGURATIONS**

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

**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

**AIR INTAKE SYSTEM**
- Air Intake Filter
- Air Intake Precleaner
### SL (LP12) SCISSORLIFT VEHICLE CONFIGURATIONS

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

#### Notes:

<table>
<thead>
<tr>
<th>EXHAUST SYSTEM</th>
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<tbody>
<tr>
<td><strong>Standard</strong></td>
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<tr>
<td><strong>Optional</strong></td>
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- Catalytic exhaust
- Exhaust Manifold and Turbo Coating
- Exhaust System Wrap

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<thead>
<tr>
<th>HYDRAULIC TANK</th>
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<tbody>
<tr>
<td><strong>Standard</strong></td>
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<tr>
<td><strong>Optional</strong></td>
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</table>

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

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<tr>
<th>TIRES</th>
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<tbody>
<tr>
<td><strong>Standard</strong></td>
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<tr>
<td><strong>Optional</strong></td>
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</table>

- 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

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<tr>
<th>FIRE SUPPRESSION SYSTEM</th>
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<tbody>
<tr>
<td><strong>Standard</strong></td>
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<tr>
<td><strong>Optional</strong></td>
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- No fire suppression
- Fire Extinguisher, 1 x 20 lb (9 kg)
- Ansul Fire Suppression System
- Ansul Fire Suppression with Auto Detection

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<tr>
<th>WHEEL CHOCS</th>
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<tr>
<td><strong>Standard</strong></td>
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<td><strong>Optional</strong></td>
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- No wheel chocks
- Aluminum Wheel Chocks

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<tr>
<th>AIR AND WATER MANIFOLD</th>
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<tr>
<td><strong>Standard</strong></td>
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<tr>
<td><strong>Optional</strong></td>
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- No Air and Water Manifold
- Air and Water Manifold Option
  - Air and water manifold mounted to scissor deck

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<thead>
<tr>
<th>TELESCOPIC WORK LIGHTS</th>
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<tr>
<td><strong>Standard</strong></td>
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<tr>
<td><strong>Optional</strong></td>
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- No Telescopic Work Lights
- Telescopic Work Lights Option
  - Qty 2 telescopic work lights mounted to scissor deck

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<thead>
<tr>
<th>DRILL STEEL RACK</th>
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<tr>
<td><strong>Standard</strong></td>
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<tr>
<td><strong>Optional</strong></td>
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- No Drill Steel Rack
- Drill Steel Rack Option
  - Steel racks along one side.
  - Mounted to scissor platform handrails to transport drill steel

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<tr>
<th>MANUAL LUBE SYSTEM</th>
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<tr>
<td><strong>Standard</strong></td>
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<tr>
<td><strong>Optional</strong></td>
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</table>

- No Manual Lube System
- Manual Lube System Option
  - Strategically placed, easily accessible grease manifolds for lubricating all scissor lift cylinder and pin pivot points
SL (LP12) SCISSORLIFT VEHICLE CONFIGURATIONS

Notes:

Choose one per group

- Standard
- Optional

**AIR/HYDRAULIC POWER PACK**
- No Air/hydraulic Power Pack
- Air/hydraulic Power Pack Option
  - Air/hydraulic power pack installed on vehicle
  - c/w remote on/off pilot valve located on scissor deck

**STABILIZERS**
- No Stabilizers
- 46 in (1.2 m) Stabilizers
  - Four tube in tube stabilizers; 2 on engine-end and 2 on scissor platform end of vehicle.

**SCISSORLIFT HANDRAIL**
- 3'-6" (1.1 m) high solid tubular steel handrails, with 6" (152 mm) steel kickplate at bottom edge
- 3'-6" (1.1 m) high solid tubular steel handrails, folding at 2'-0" (610 mm), with 6" (152 mm) steel kickplate at bottom edge

**SCISSORLIFT CERTIFICATION**
- No scissorlift certification
- Scissorlift certified to CSA Lifting Standard C225-00 for Vehicle Mounted Aerial Devices

**WOOD LINED DECK**
- Anti-slip deck material - no wood lining
- 3" (76.2 mm) thick hardwood deck installed on scissor deck.
  - Note: this option decreases scissor platform capacity by 1,000 lb (454 kg)
POWERTRAIN GROUP OPTIONS

- **Engine:** Deutz BF4M1013C, four cylinder, turbocharged, intercooled diesel, MSHA Tier II, 122 hp (91kW) @ 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)
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  - 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.
**OPERATOR SEAT OPTIONS**

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

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

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**PROTECTIVE STRUCTURES OPTIONS**

- **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.
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

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

- **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
AIR AND WATER MANIFOLD OPTIONS

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

- **No Air and Water Manifold**

- **Air and Water Manifold Option**
  Air and water manifold mounted to scissor deck

TELESCOPIC WORK LIGHT OPTIONS

- **No Telescopic Work Lights**

- **Telescopic Work Lights Option**
  Qty 2 telescopic work lights mounted to scissor deck
  24 volt/70 watt halogen

DRILL STEEL RACK OPTIONS

- **No Drill Steel Rack**

- **Drill Steel Rack Option**
  Steel racks along one side. Mounted to scissor platform handrails to transport drill steel
MANUAL LUBE OPTIONS

- No Manual Lube System
- Manual Lube System Option
  Strategically placed, easily accessible grease manifolds for lubricating all scissor lift cylinder and pin pivot points

AIR/HYDRAULIC POWER PACK OPTIONS

- No Air/hydraulic Power Pack
- Air/hydraulic Power Pack Option
  Air/hydraulic power pack installed on vehicle c/w remote on/off pilot valve located on scissor deck

STABILIZER OPTIONS

- No Stabilizers
- 46 in (1.2 m) Stabilizers
  Four tube in tube stabilizers; 2 on engine-end and 2 on scissor platform end of vehicle.
WOOD LINED DECK OPTION

- Anti-Slip Deck Material - No Wood Lining

▲ Scissorlift Wood Lined Deck
3" (76mm) hardwood deck installed on scissor deck

Note: This option decreases the scissor platform capacity by 1,000 lbs (454 kg)

SCISSORLIFT CERTIFICATION OPTIONS

- No Scissorlift Certification

▲ Scissorlift Certification
Scissorlift certified to CSA Lifting Standard C225-00 for Vehicle Mounted Aerial Devices.

HANDRAIL OPTIONS

- Fixed Handrails
3'-6" (1.1 m) high solid tubular steel handrails, with 6" (152 mm) steel kickplate at bottom edge

▲ Folding Handrails
3'-6" (1.1 m) high solid tubular steel handrails folding at 2'-0" (610 mm); with 6" (152 mm) steel kickplate at bottom edge

All dimensions and specifications are subject to change without notice.