### AT A GLANCE

**Weights & Dimensions:**
- **Operating Weight**
  - SCT6: 45,000 lb (20,455 kg)
  - SCT7: 48,000 lb (21,820 kg)
- **Tramming Length**
  - SCT6: 35'-6" (10.81 m)
  - SCT7: 36'-6" (11.13 m)
- **Tramming Height**
  - SCT6: 8'-2" (2.49 m)
  - SCT7: 9'-1" (2.77 m)
- **Carrier Articulation**
  - +/- 45°
- **Inside Turning Radius**
  - SCT6: 16'-10" (5.1 m)
  - SCT7: 17'-1" (5.2 m)
- **Outside Turning Radius**
  - SCT6: 28'-7" (8.7 m)
  - SCT7: 29'-7" (8.9 m)

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

**Engine Configurations:**
- **Deutz BF4M1013C**
  - 152 hp (113 kW) @ 2300 rpm
  - MSHA/Tier II
- **Mercedes 906**
  - 201 hp (150 kW) @ 2200 rpm
  - Tier II
- **Mercedes 904**
  - 174 hp (130 kW) @ 2200 rpm
  - Tier II

**Shotcrete Drum**
- **SCT6**
  - Drum Capacity: 6 m³
  - Discharge Rate: 0 - 3 m³ per minute
  - Rotations/minute: 0 - 14 (both directions)
- **SCT7**
  - Drum Capacity: 7 m³
  - Discharge Rate: 0 - 3 m³ per minute
  - Rotations/minute: 0 - 14 (both directions)

**Features & Benefits**
- Heavy duty, low profile vehicle designed for remix operations in underground applications.
- +/-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 tramming functions.
- Optional 17” or 46” (432 or 1168 mm) heavy duty tube-in-tube self-leveling stabilizers provide quick set up times and stable operation.
- Internal drum flutes provide remixing and material discharge without tilting the drum.
- Drum speed controlled by two proportional joysticks; at the discharge end and at the operator’s position.
- Oval loading hatch front to rear, allows truck to be jockeyed for optimum loading.

**Options**
- Protective operator structure
- Seating configurations
- Tilting Remixer Drum
- Air intake system
- Exhaust system
- Fuel filling system
- Hydraulic filling system
- Tires
- Fire suppression system
- Auxiliary power pack
- Wheel chocks
- Drum tilt
- Stabilizers
- Catwalk/platforms
- Discharge chute
- Accelerator pumping system
- Form oil pumping system
- Pressure washer
**DRIVING SPECIFICATIONS**

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

- **Recommended Drift Height**
  - BTI recommends a minimum drift height with cab: 9'-10" (3 m)

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**LP15 CARRIER - COMMON FEATURES**

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

- **HYDRAULIC CIRCUIT**
  - 75 cc/rev 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 boom end
  - Two 70 watt halogen working lights on boom end

- **REMXER DRUM**
  - Welded steel structure c/w internal flutes for mixing/emptying
  - Round inspection hatch and oval filling door
  - Hydraulic open/close rear discharge door
  - Hydraulic motor drive via high reduction gear box for high torque input

- **SCT6**
  - 6 m³ drum capacity

- **SCT7**
  - 7 m³ drum capacity

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**Notes:**

- **Standard** - common to all engine combinations
- **Optional**
## SCT Carrier Configurations

**POWERTRAIN GROUPS**
- Deutz BF4M1013C
- Mercedes 904
- Mercedes 906

**PROTECTIVE STRUCTURE**
- Operator seating, no protective enclosure
- ROPS/FOPS canopy - Utility configuration, open air
- ROPS/FOPS fully enclosed cab full width (engine belt driven)
- ROPS/FOPS certified fully enclosed cab full width (hydraulic driven)

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

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

**AIR INTAKE SYSTEM**
- Air Intake Filter
- Air Intake Pre-cleaner

**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)

**HYDRAULIC TANK**
- Hydraulic Tank, 50 gallon (189 liter)
- Hydraulic Tank with Fast Fill, 50 gallon (189 liter)

**TIRES**
- Pneumatic tires: 12:00 x 20; 20 ply
- Foam filled tires: 44.5 x 16.5; 30 ply

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

**ELECTRIC POWER PACK**
- No power pack
- 20 hp (15 kW) Electric motor driven hydraulic pump
- Pneumatic driven auxiliary power pack (backup power for unloading drum)

**WHEEL CHOCKS**
- No Wheel Chocks
- Aluminum Wheel Chocks

**DRUM TILT**
- SCT6 / SCT7 Drum, non-tilting
- SCT6 / SCT7 Tilting Drum

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

**CATWALK/PLATFORM**
- No Catwalk/Platform
- LH catwalk c/w 42” (1.07 m) tall fixed safety rail & access ladder
- RH catwalk c/w 42” (1.07 m) tall fixed safety rail & access ladder
- LH catwalk c/w 42” (1.07 m) tall folding safety rail & access ladder
- RH catwalk c/w 42” (1.07 m) tall folding safety rail & access ladder

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**Notes:** Choose one per group
- Standard
- Optional
SCT CARRIER - COMMON FEATURES

Choose one per group
- Standard ▲ Optional

Notes:

- No Discharge Chute
- Discharge chute complete with hydraulic lift and swing functions

ACCELERATOR PUMPING SYSTEM
- No Accelerator Pump System
- Hydraulic on board mounted pump, c/w 40 gallon (151 liter) tank
- Pneumatic on board mounted pump, c/w 40 gallon (151 liter) tank

FORM OIL PUMPING SYSTEM
- No Form Oil Pump System
- On board Form Oil pump, c/w 24 gallon (91 liter) tank

PRESSURE WASHER
- No Pressure Washer
- On board mounted pressure washer

POWERTRAIN GROUP OPTIONS

- Standard ▲ Optional

**Engine:** Deutz BF4M1013C, four cylinder, turbocharged, intercooled diesel, MSHA/Tier II, 152 hp (113 kW) @ 2300 rpm c/w fuel filter and water separator
- Torque converter: Clark C270 series
- Transmission: Clark 32,000 series, long drop, remote mounted, electric shift
- Three forward and three reverse speeds
- Vehicle speeds with 12 x 20 tires @ 2200 rpm with standard axle ratio:
  - 1st gear: 2.4 mph (3.9 kph) • 2nd: 6.2 mph (10.0 kph) • 3rd: 11.4 mph (18.3 kph)
- **Engine end axle:** John Deere 1400 series, no-spin differential, c/w external walking beam. Wet disk SAHR emergency brakes, wet disk HASR service brakes.
- **Remixer end axle:** John Deere 1400 series, no-spin differential. Wet disk SAHR emergency brakes, wet disk HASR service brakes.
- **Drivelines:** Mechanics 6C and 7C

**Engine:** Mercedes 904, four cylinder, turbocharged, intercooled diesel, Tier II, 174 hp (130 kW) @ 2200 rpm c/w fuel filter and water separator
- Torque converter: Clark C320 series
- Transmission: Clark 32,000 series, long drop, remote mounted, electric shift
- Three forward and three reverse speeds
- Vehicle speeds with 12 x 20 tires @ 2200 rpm with standard axle ratio:
  - 1st gear: 2.8 mph (4.5 kph) • 2nd: 5.8 mph (9.3 kph) • 3rd: 14.8 mph (23.8 kph)
- **Engine end axle:** John Deere 1400 series, no-spin differential, c/w external walking beam. Wet disk SAHR emergency brakes, wet disk HASR service brakes.
- **Remixer end axle:** John Deere 1400 series, no-spin differential. Wet disk SAHR emergency brakes, wet disk HASR service brakes.
- **Drivelines:** Mechanics 6C and 7C

**Engine:** Mercedes 906 Series, six cylinder, turbocharged, intercooled diesel, Tier II, 201 hp (150 kW) @ 2520 rpm c/w fuel filter and water separator
- Torque converter: Clark C320 series
- Transmission: Clark 32,000 series, long drop, remote mounted, electric shift
- Three forward and three reverse speeds
- Vehicle speeds with 12 x 20 tires @ 2200 rpm with standard axle ratio:
  - 1st gear: 2.8 mph (4.5 kph) • 2nd: 5.8 mph (9.3 kph) • 3rd: 14.8 mph (23.8 kph)
- **Engine end axle:** John Deere 1400 series, no-spin differential, c/w external walking beam. Wet disk SAHR emergency brakes, wet disk HASR service brakes.
- **Remixer end axle:** John Deere 1400 series, no-spin differential. Wet disk SAHR emergency brakes, wet disk HASR service brakes.
- **Drivelines:** Mechanics 6C and 7C

DISCHARGE CHUTE
- No Discharge Chute
- Discharge chute complete with hydraulic lift and swing functions

ACCELERATOR PUMPING SYSTEM
- No Accelerator Pump System
- Hydraulic on board mounted pump, c/w 40 gallon (151 liter) tank
- Pneumatic on board mounted pump, c/w 40 gallon (151 liter) tank

FORM OIL PUMPING SYSTEM
- No Form Oil Pump System
- On board Form Oil pump, c/w 24 gallon (91 liter) tank

PRESSURE WASHER
- No Pressure Washer
- On board mounted pressure washer

**Notes:**

- **DISCHARGE CHUTE**
  - No Discharge Chute
  - Discharge chute complete with hydraulic lift and swing functions

- **ACCELERATOR PUMPING SYSTEM**
  - No Accelerator Pump System
  - Hydraulic on board mounted pump, c/w 40 gallon (151 liter) tank
  - Pneumatic on board mounted pump, c/w 40 gallon (151 liter) tank

- **FORM OIL PUMPING SYSTEM**
  - No Form Oil Pump System
  - On board Form Oil pump, c/w 24 gallon (91 liter) tank

- **PRESSURE WASHER**
  - No Pressure Washer
  - On board mounted pressure washer

**Choose one per group**

- Standard ▲ Optional

**Engine:** Deutz BF4M1013C, four cylinder, turbocharged, intercooled diesel, MSHA/Tier II, 152 hp (113 kW) @ 2300 rpm c/w fuel filter and water separator
- Torque converter: Clark C270 series
- Transmission: Clark 32,000 series, long drop, remote mounted, electric shift
- Three forward and three reverse speeds
- Vehicle speeds with 12 x 20 tires @ 2200 rpm with standard axle ratio:
  - 1st gear: 2.4 mph (3.9 kph) • 2nd: 6.2 mph (10.0 kph) • 3rd: 11.4 mph (18.3 kph)
- **Engine end axle:** John Deere 1400 series, no-spin differential, c/w external walking beam. Wet disk SAHR emergency brakes, wet disk HASR service brakes.
- **Remixer end axle:** John Deere 1400 series, no-spin differential. Wet disk SAHR emergency brakes, wet disk HASR service brakes.
- **Drivelines:** Mechanics 6C and 7C

**Engine:** Mercedes 904, four cylinder, turbocharged, intercooled diesel, Tier II, 174 hp (130 kW) @ 2200 rpm c/w fuel filter and water separator
- Torque converter: Clark C320 series
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- **Remixer end axle:** John Deere 1400 series, no-spin differential. Wet disk SAHR emergency brakes, wet disk HASR service brakes.
- **Drivelines:** Mechanics 6C and 7C
**PROTECTIVE STRUCTURES OPTIONS**

- **Standard Operator Compartment**
  Standard dual compartments for operator and passenger.

- **ROPS/FOPS Canopy**
  Tested and certified ROPS/FOPS canopy, complete with guard bars to help protect operator and passenger from dangerous fly-rock. Complete with swivel operator seat.

- **ROPS/FOPS Cab**
  - **Engine Belt Driven**
  - **Hydraulic Driven**
  Fully enclosed 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 and operator swivel seat.
  Either engine belt driven air conditioner for engine driven applications, or hydraulic driven air conditioner for electric driven power pack applications.

**OPERATOR SEAT OPTIONS**

- **Operator Seat Options**
  - **Suspension Seat**
  - **Air Ride Seat**
  Mine duty operator seat options available in suspension and air ride variations.

**PASSENGER SEAT OPTIONS**

- **No Passenger Seat**

- **Passenger Seat Options**
  - **Suspension Seat**
  - **Air Ride Seat**
  Mine duty passenger seat options available in suspension and 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 Fill filling system. Designed for on-site fast fluid transfer.
## HYDRAULIC TANK OPTIONS

<table>
<thead>
<tr>
<th>Standard</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hydraulic Tank</strong></td>
<td>50 gal (189 liter) hydraulic tank, top fill, 4 psi pressurized cap.</td>
</tr>
<tr>
<td><strong>Hydraulic Tank with Fast Fill</strong></td>
<td>50 gal (189 liter) hydraulic tank complete with Fast Fill filling system. Designed for on-site fast fluid transfer.</td>
</tr>
</tbody>
</table>

## TIRE OPTIONS

| Pneumatic Tires | 12:00 x 20; 20 ply |

## 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 and a 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 a 20 lb (9 kg) fire extinguisher. |

## AUXILIARY POWER PACK OPTION

| No Auxiliary Power Pack |  |
| Auxiliary Power Pack - Electric | 20 HP (15 kW) Electric motor driven hydraulic pump, mounted to mixer end frame. Meant to serve as a backup power for offloading the drum. |
| Auxiliary Power Pack - Pneumatic | Pneumatically driven fixed displacement pump. Meant to serve as a backup power for offloading the drum. |
WHEEL CHOCK OPTIONS

- Standard
- Optional

- No Wheel Chocks

- Wheel Chocks - aluminum
  Complete with holder

SCT6 TILTING DRUM OPTIONS

- SCT6 DRUM
  Six cubic meter capacity, non-tilting drum.
  Continuously adjustable drum rotation between 0 and 14 rpm, in both turning directions. Drum speed is controlled by two proportional joysticks, one at the discharge end of the drum, the other at the operator’s position.

- SCT6 TILTING DRUM
  The tilting drum allows more clearance over the shotcrete gun and provides equal distribution of the shotcrete while loading the drum.

Lift Height 17” (422 mm)

SCT7 TILTING DRUM OPTIONS

- SCT7 DRUM
  Seven cubic meter capacity, non-tilting drum.
  Continuously adjustable drum rotation between 0 and 14 rpm, in both turning directions. Drum speed is controlled by two proportional joysticks, one at the discharge end of the drum, the other at the operator’s position.

- SCT7 TILTING DRUM
  The tilting drum allows more clearance over the shotcrete gun and provides equal distribution of the shotcrete while loading the drum.

Lift Height 19” (479 mm)
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.

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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.
Catwalk Options

- Left-hand Catwalk c/w 3'-6" (1.07 m) tall fixed 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.

Discharge Chute Options

- No Discharge Chute

- Discharge Chute

The discharge chute with hydraulic controlled tilt and swing capability (+/- 90°) allows the operator to adjust the chute at any position without strain or effort. This allows the operator to put the concrete/shotcrete exactly where it's needed.

Accelerator Pumping System Option

- No Accelerator

- Hydraulic Pump, Tank & Reel
- Pneumatic Pump, Tank & Reel

Stainless steel, 40 gallon (151 liter) tank, with a hydraulic or pneumatic pump and 50' (15.2 m) hose reel. The accelerator tank and pump allow the operator to transport accelerator solution (concrete curing agent) to the spray site and transfer the solution to the shotcrete sprayer tank, where it is applied to the concrete.
FORM OIL PUMPING SYSTEM OPTION

- **No Form Oil Sprayer**

- **Form Oil Sprayer**
  
  Hydraulic pump with 24 gallon (90.8 liter) tank and 50’ (15.2 m) hose reel.
  
  Form oil prevents the concrete from sticking to metal surfaces. The form oil sprayer allows the operator to spray the form oil on the drum, hatch and surfaces that come in contact with the concrete.

PRESSURE WASHER OPTIONS

- **No Pressure Washer**

- **Pressure Washer Option**
  
  Onboard mounted hydraulic pressure washer complete with 50’ (15.2 m) hose and spray wand. No tank; 3/4” NPT hookup for mine water.
  
  The pressure washer allows the operator the ability to clean his vehicle where ever there is a water source. The mixer can also be cleaned at the site, preventing concrete from building up on any surfaces.

All dimensions and specifications are subject to change without notice.