

AT A GLANCE

Weights & Dimensions:

Operating Weight

VPS16: 45,160 lbs (20,527 kg)

VPS25: 46,500 lbs (21,136 kg)

Tramming Height

8'-6" (2.6m)

Outside Turning Radius

VPS16: 25'-1" (7.6m)

VPS25: 27'-8" (8.4m)

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

Overall Tramming Length

VPS16: 39'-11" (12.17m)

VPS25: 42'-6" (12.95m)

Carrier Articulation

+/- 45°

Boom Swing

+/- 25°

Overall Width

9" (2.7m)

Inside Turning Radius

11'-8" (3.6m)

Maximum Horizontal Reach

VPS16: 29'-10" (9.1m)

VPS25: 34'-3" (10.4m)

● Standard ▲ Optional

Engine Configurations:

● Deutz BF4M1013C

122 HP @ 2300 rpm, MSHA/Tier II

▲ Caterpillar C4.4 ACERT

127 HP @ 2200 rpm, Tier III

Vibratory Pick Scaler

● VP285

Impact Energy: 100 - 335 ft/lbs (135 - 455 joules)

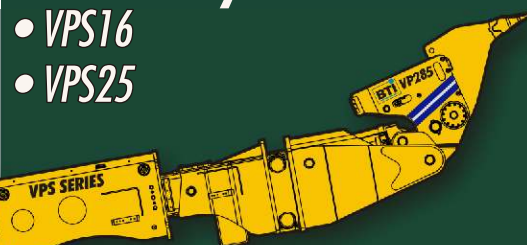
Operating Frequency: 730 - 1,120

Pick Width - solid plate: 5" (125mm)

VPS SERIES

Vibratory Pick Scaler

- VPS16
- VPS25

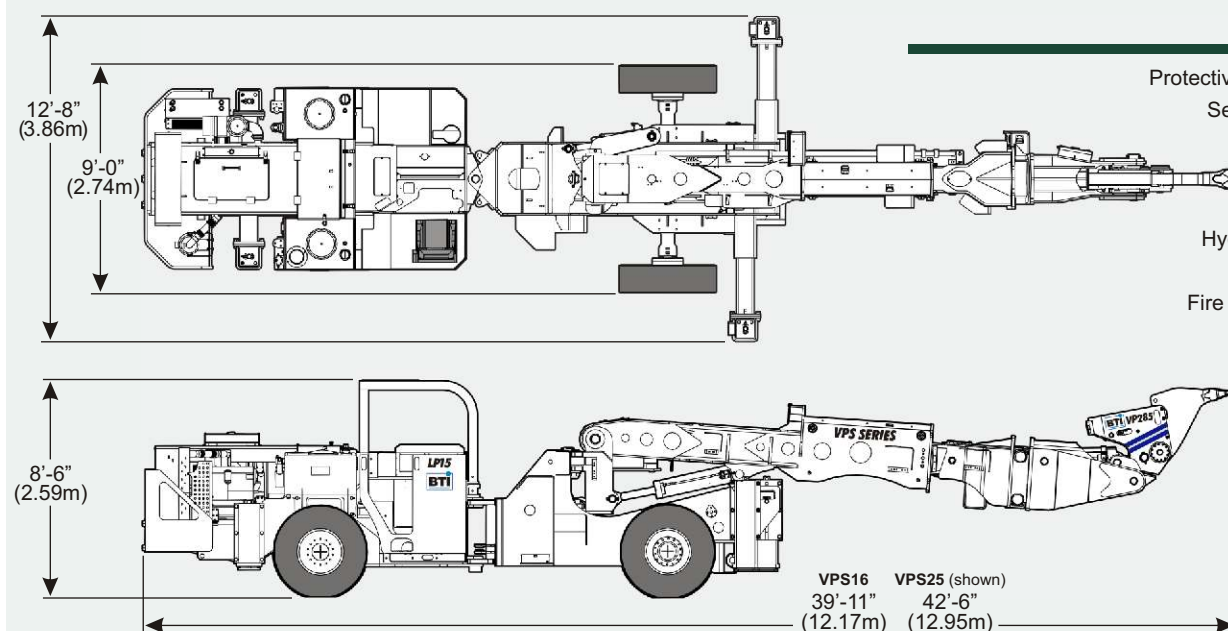


FEATURES & BENEFITS

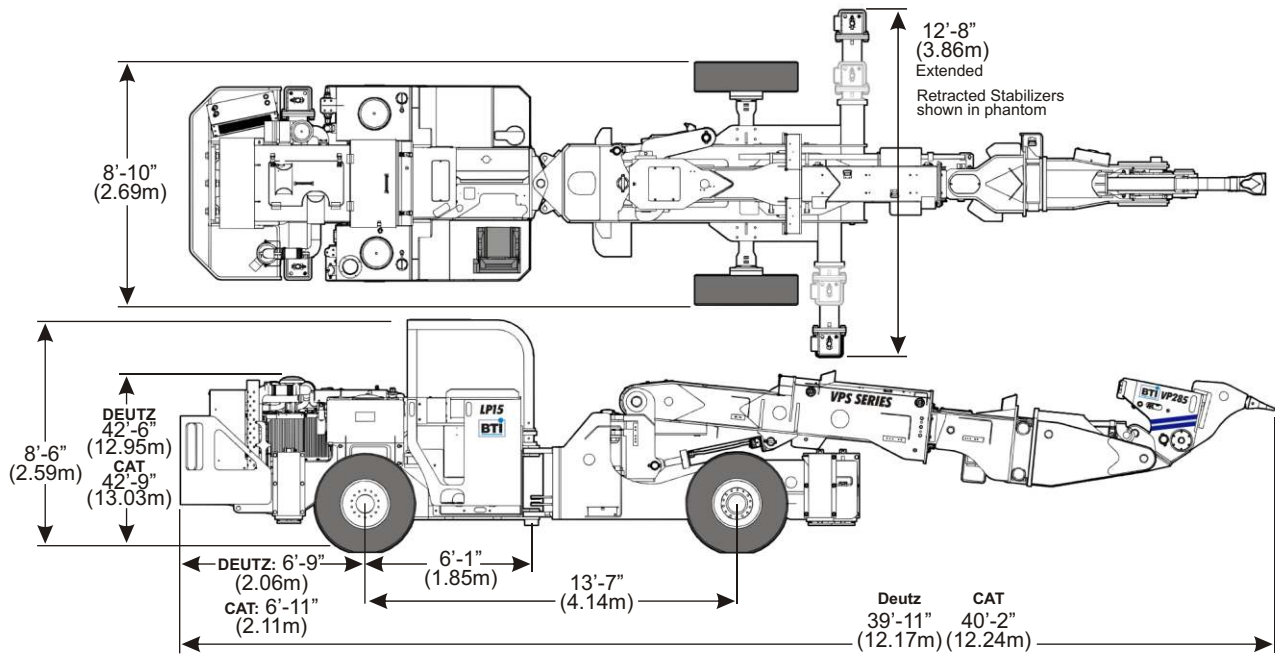
- High speed / high mobility underground scaling.
- +/-45° vehicle articulation for tight turning radius.
- Separate torque converter / transmission package provides low profile engine shroud height for improved operator visibility.
- Mid-ship operator compartment provides good visibility for both tramming and scaling functions.
- Four heavy duty tube-in-tube self-leveling stabilizers provide quick set up times and stable operation.
- Purpose-built heavy duty, large cross-section boom provides excellent dexterity and strength when performing scaling functions.
- Patented Vibratory Pick provides fast, efficient scaling of rock surfaces.

OPTIONS

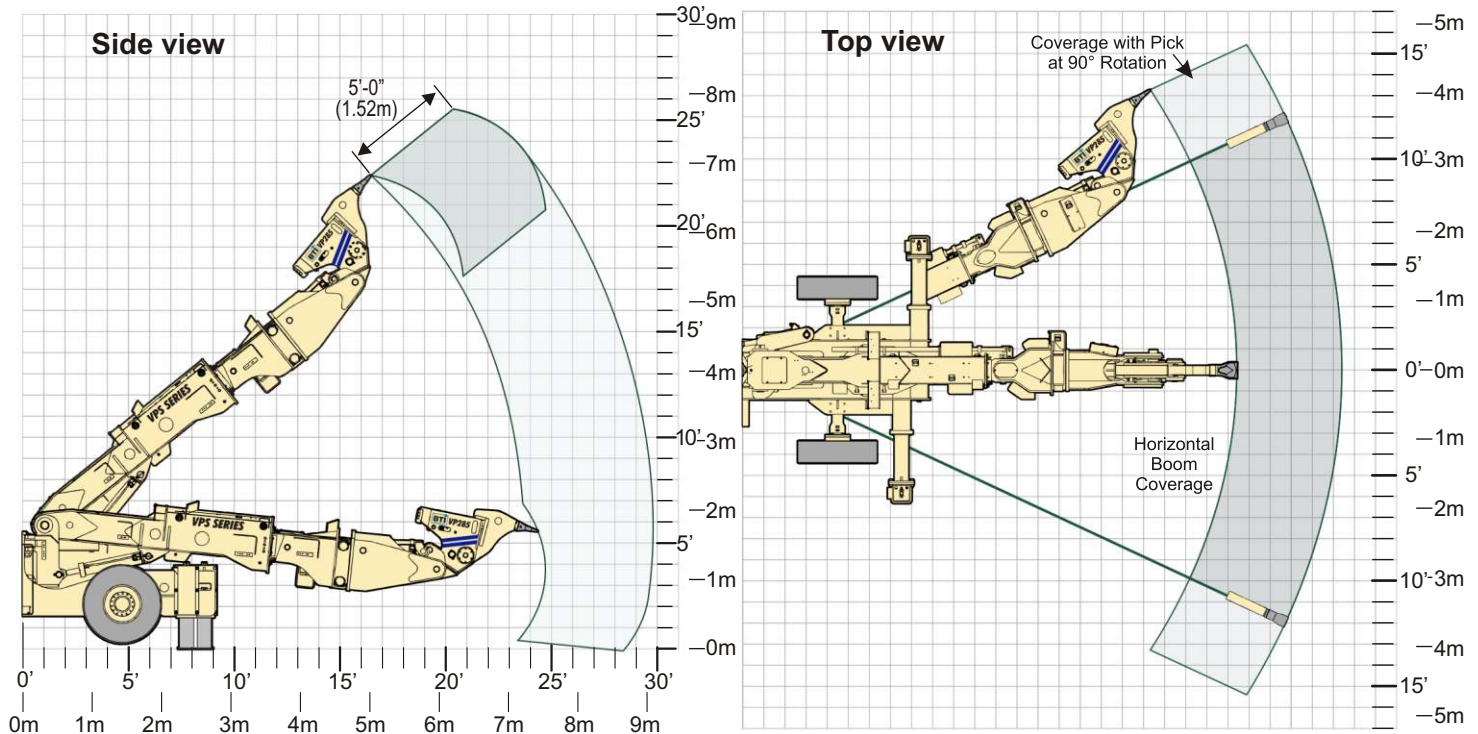
- Protective operator structure
- Seating configurations
- Air Intake system
- Exhaust system
- Fuel filling system
- Hydraulic filling system
- Tires
- Fire suppression system
- Electric power pack
- Wheel chocks
- Greasing system
- Dust suppression
- Dozer blade
- Vibratory pick



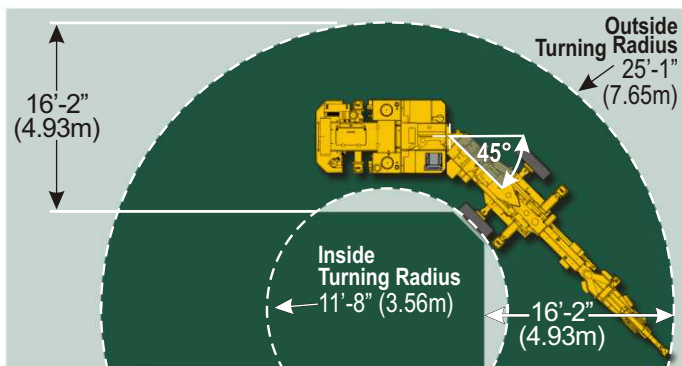
VPS16 SCALER DIMENSIONS



VPS16 SCALER COVERAGE



VPS16 TURNING RADIUS

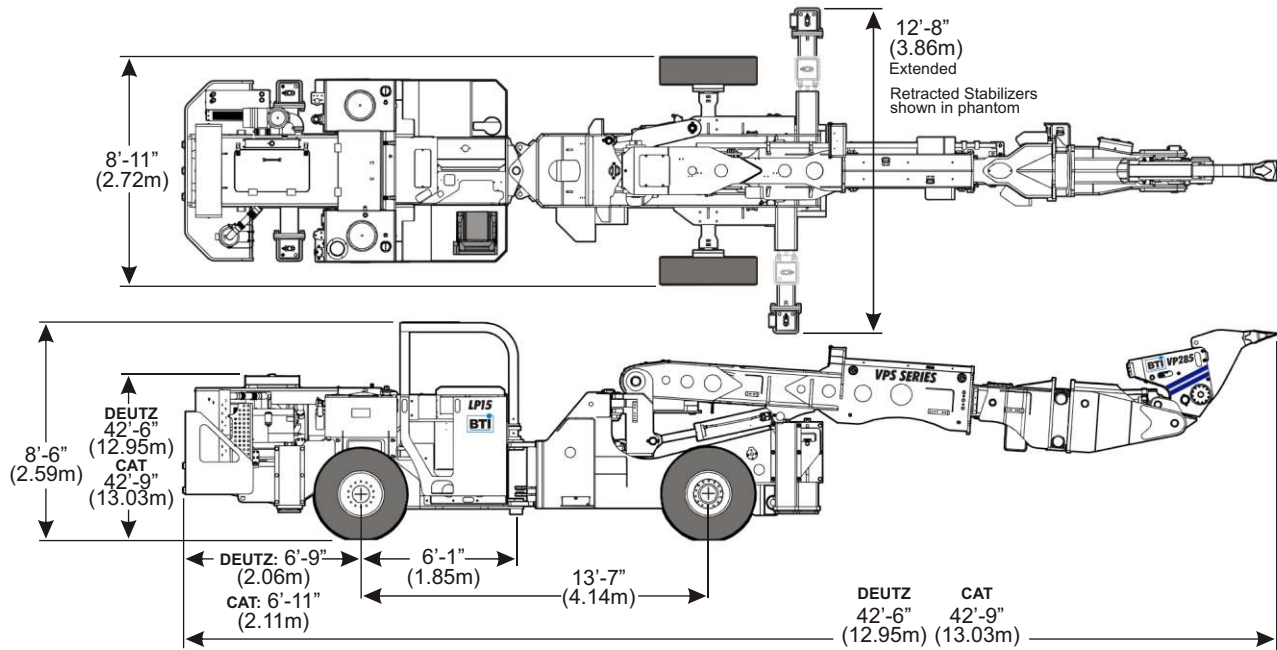


Turning Radius

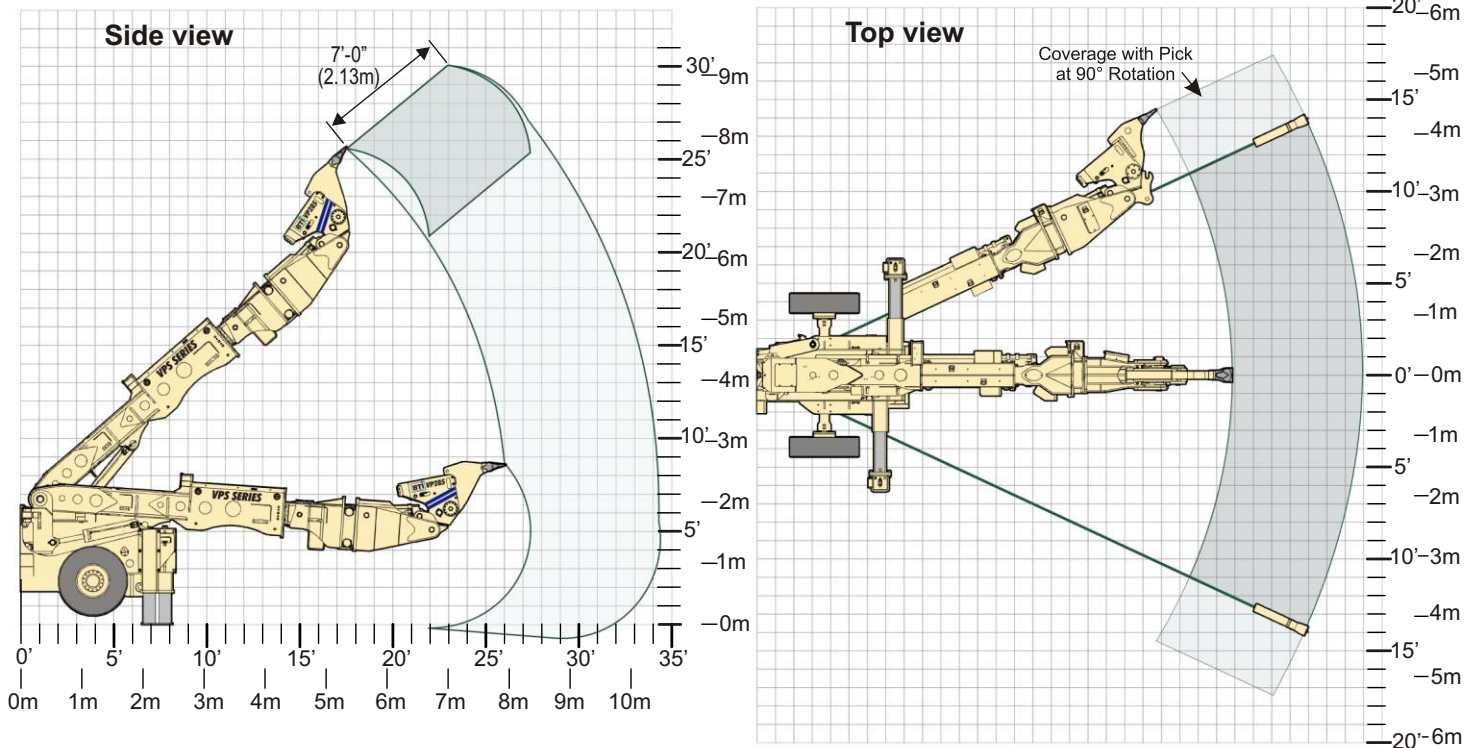
Turning radius: +/- 45° articulation

Boom should remain in-line with the carrier during tramming for optimum stability.

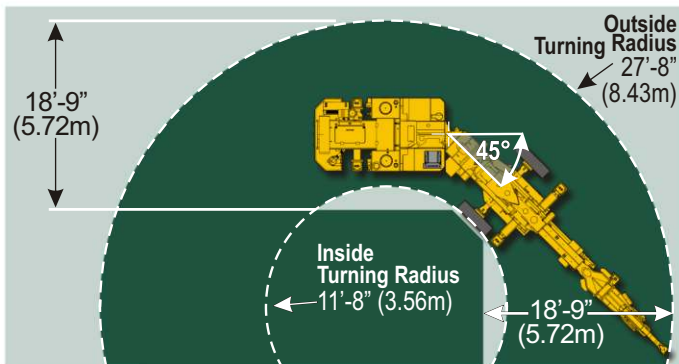
VPS25 SCALER DIMENSIONS



VPS25 SCALER COVERAGE



VPS25 TURNING RADIUS

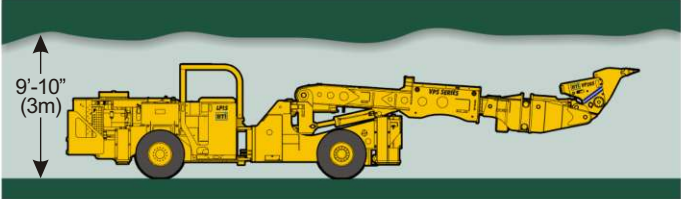


Turning Radius

Turning radius: +/- 45° articulation

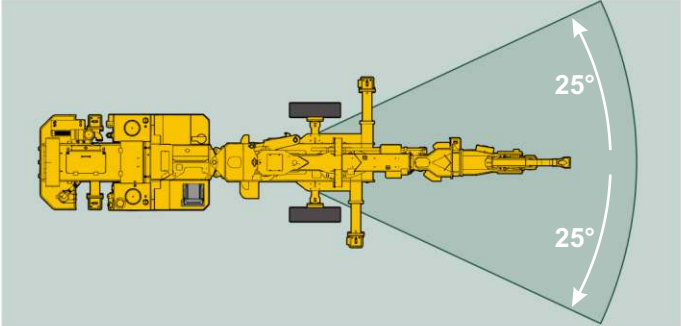
Boom should remain in-line with the carrier during tramming for optimum stability.

DRIVING & SCALING SPECIFICATIONS



Recommended Drift Height

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



Boom Swing

Boom Swing: +/- 25°

Maximum Horizontal Reach:

VPS16: 29'-10" (9.1m)

VPS25: 34'-3" (10.4m)

Carrier should be in a non articulated state (in-line) with the front and rear jacks down while undergoing breaking and raking functions.

LP15ARW CARRIER - COMMON FEATURES

- Standard - common to all engine combinations
- ▲ Optional

Notes: _____

● CHASSIS

LP15ARW articulated 4-wheel drive, all welded construction

● ENGINE END OSCILLATION

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

● CARRIER ARTICULATION

+/- 45° - two opposing 4" (100mm) bore x 2" (50mm) 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

Air over oil fin type oil cooler c/w 24 VDC fan

● 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

● STABILIZERS

Qty four 4" (100mm) bore x 2" (50mm) rod cylinder reinforced tube-in-tube construction providing 17" (432mm) of stroke

Operated by 3 valve spools, one per each boom end stabilizer and one operating both engine end stabilizers providing a self-leveling function

Boom end stabilizers are extendable for better stability

- **SCALER BOOM**

VPS series mobile boom system

Portable umbilical cord remote control pendant for boom and pick functions

Patented VP285 Vibratory Pick system

Boom functions: Hoist • Swing +/- 25° • Extend • 360° pick rotate • pick tilt

Choose one per group

Notes: _____

POWERTRAIN GROUPS

- Deutz BF4M1013C
- ▲ Caterpillar C4.4 ACERT

PROTECTIVE STRUCTURE

- 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
- ▲ ROPS/FOPS certified fully enclosed cab full width.
Hydraulic driven heat/air conditioner for electric driven power pack applications

OPERATOR SEAT

- Rigid Seat - swivel
- ▲ Air Ride Seat - swivel

PASSENGER SEAT

- No passenger seat
- ▲ Suspension Seat, mine duty swivel passenger seat
(not available if unit is purchased with dust suppression system)
- ▲ Air Ride Seat, mine duty swivel passenger seat
(not available if unit is purchased with dust suppression system)

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 Flow Max., 50 gallon (189 liter)

HYDRAULIC TANK

- Hydraulic Tank, 50 gallon (189 liter)
- ▲ Hydraulic Tank with Flow Max., 50 gallon (189 liter)

TIRES

- Solid Softy tires: 13:00 x 20

FIRE SUPPRESSION SYSTEM

- No fire suppression
- ▲ Fire Extinguisher, 1 x 20 lb (9 kg)
- ▲ Ansul Fire Suppression system, c/w 20 lb (9 kg) fire extinguisher
- ▲ Ansul Fire Suppression with Auto Detection, c/w 20 lb (9 kg) fire extinguisher

ELECTRIC POWER PACK

- No power pack
- ▲ Power Pack, 50 HP (37 kW) electric/hydraulic
- ▲ Power Pack with Cable Reel, 50 HP (37 kW) electric/hydraulic

VPS CARRIER CONFIGURATIONS

Choose one per group

● Standard ▲ Optional

Notes: _____

WHEEL CHOCKS

- No wheel chocks
- ▲ Aluminum Wheel Chocks

GREASING SYSTEM

- Point of use grease zerk - no remote greasing points
- ▲ Boom Manual Lube System, boom system only
- ▲ Boom/Vibratory Pick Auto-Lube System

DUST SUPPRESSION SYSTEM

- No dust suppression system
- ▲ Manual System - mine water hookup
- ▲ On-board System - 35 gal (132 liter) water tank

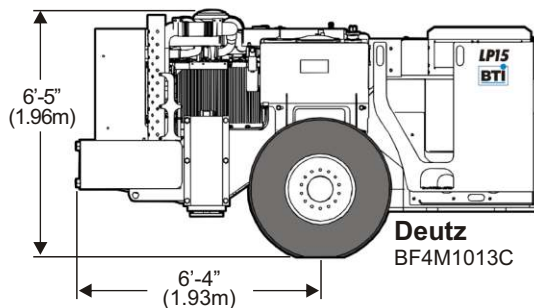
DOZER BLADE

- No dozer blade
- ▲ Dozer blade

VIBRATORY PICK

- VP285 Vibratory pick scaler, with 5" spade tooth

POWERTRAIN GROUP OPTIONS



- **Engine:** Deutz BF4M1013C, four cylinder, turbocharged, intercooled Diesel, MSHA/Tier II, 122 HP @ 2200 RPM c/w fuel filter and water separator

Torque converter: Clark C2000 series

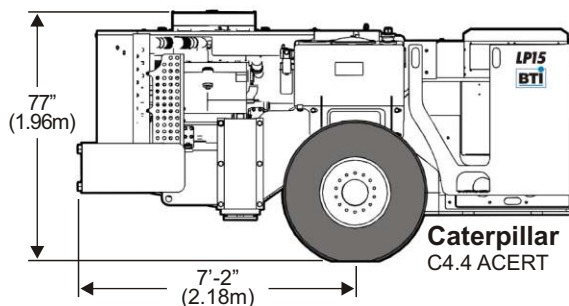
Transmission: Clark 20,000 series, long drop, remote mounted, electric shift
Three forward and three reverse speeds

Vehicle speeds with 12 x 20 tires @ 2200 rpm with standard axle ratio
1st gear: 2.4mph (3.9kph) • 2nd: 6.2mph (10.0kph) • 3rd: 11.4mph (18.3kph)

Engine end axle: John Deere 1200 series. No-spin differential, c/w external walking beam. SAHR driveline disc emergency brakes, wet disk HASR service brakes.

Boom end axle: John Deere 1200 series. No-spin differential, fixed. SAHR driveline disc emergency brakes, wet disk HASR service brakes.

Drivelines: Mechanics 6C and 7C



- ▲ **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 x 20 tires @ 2200 rpm with standard axle ratio
1st gear: 2.4mph (3.9kph) • 2nd: 6.2mph (10.0kph) • 3rd: 11.4mph (18.3kph)

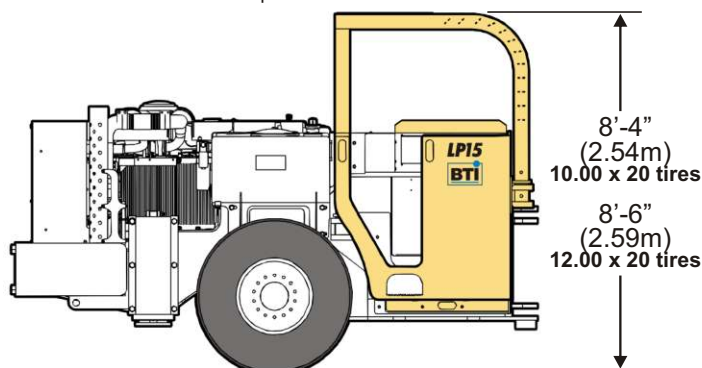
Engine end axle: John Deere 1200 series. No-spin differential, c/w external walking beam. SAHR driveline disc emergency brakes, wet disk HASR service brakes.

Boom end axle: John Deere 1200 series. No-spin differential, fixed. SAHR driveline disc emergency brakes, wet disk HASR service brakes.

Drivelines: Mechanics 6C and 7C

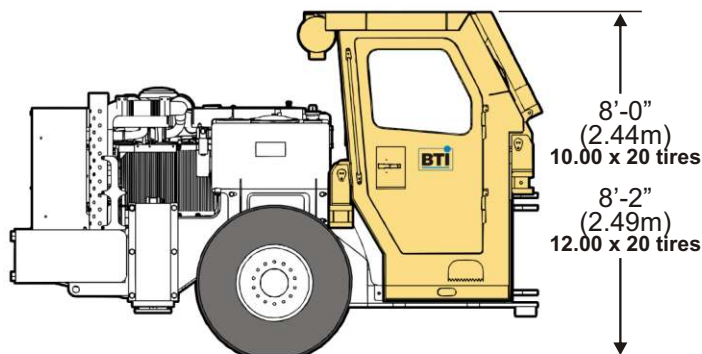
PROTECTIVE STRUCTURES OPTIONS

● Standard ▲ Optional



● 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.



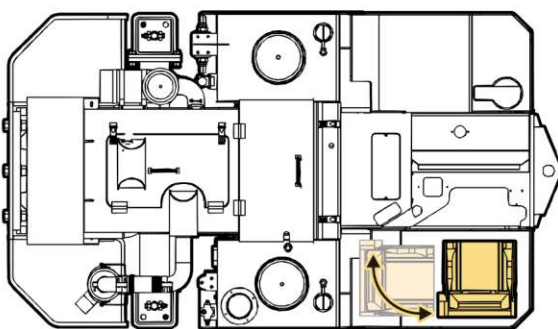
ROPS/FOPS Cab

▲ 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



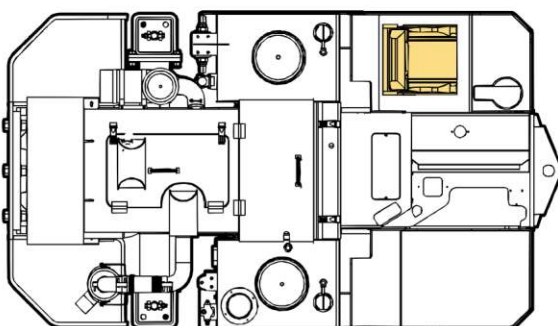
Operator Seat Options

● Rigid GS12 - swivel ▲ Air Ride Seat - swivel

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

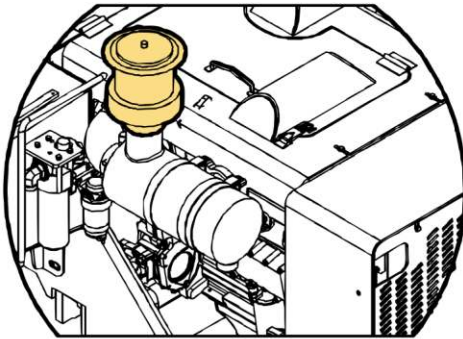
Note: Not available if unit is purchased with dust the suppression system option.

AIR INTAKE SYSTEM OPTIONS

● Standard ▲ Optional

● Air Intake Filter

A dry element filter with safety element and replacement indicator.



▲ Air Intake Precleaner

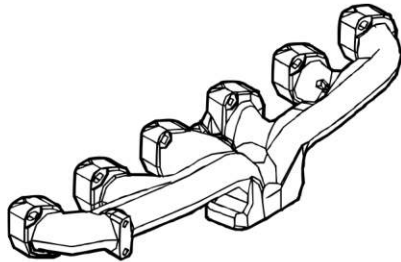
A dry element filter with safety element and replacement indicator, complete with a cyclone Pre-cleaner.

A pre-cleaner extends the life of your air filter by removing dirt and contaminants before it reaches the filter and ejects it automatically via the exhaust.

EXHAUST SYSTEM OPTIONS

● Catalytic Exhaust

A catalytic exhaust, purifier/silencer. No exhaust blanket.

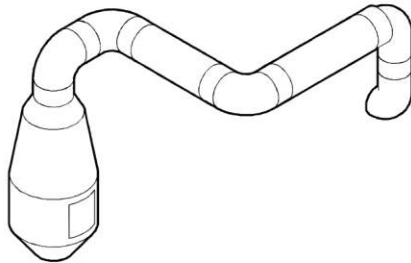


▲ Exhaust Manifold and Turbo Coating

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.

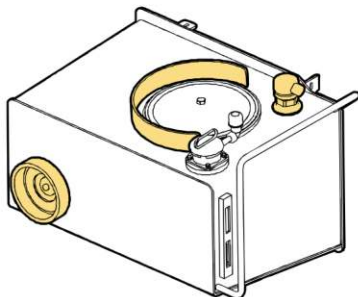
Non flammable. Protects personnel from burns.

Lowers ambient temperature; cooler exhaust components, less heat stress on operators and maintenance personnel.

FUEL TANK OPTIONS

● Fuel Tank

50 gallon (189 liter) fuel tank, top fill.



▲ Fuel Tank with Flow Max

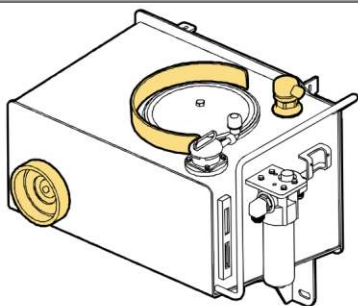
50 gallon (189 liter) fuel tank complete with Flow Max filling system. Designed for on-site fast fluid transfer.

HYDRAULIC TANK OPTIONS

● Standard ▲ Optional

● Hydraulic Tank

50 gallon (189 liter) hydraulic tank, top fill, 4 psi pressurized cap

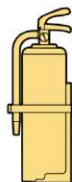


▲ Hydraulic Tank with Flow Max

50 gallon (189 liter) Hydraulic tank complete with Flow Max filling system. Designed for on-site fast fluid transfer.

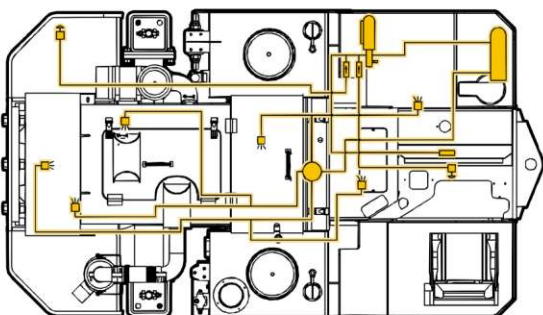
FIRE SUPPRESSION SYSTEM OPTIONS

● No Fire Suppression System



▲ Fire Extinguisher

1 x 20 (9 kg) lb fire extinguisher.



▲ Ansul Fire Suppression

Ansul fire suppression system, 6 nozzle, complete with 2 actuators and a 20lb (9 kg) fire extinguisher.

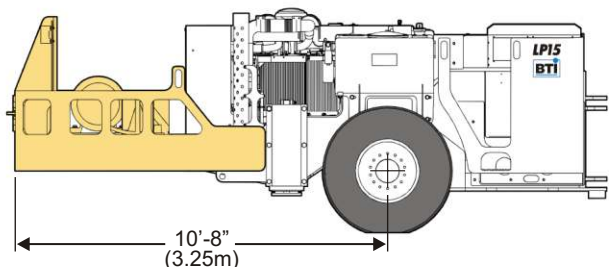
▲ Ansul Fire Suppression with Detection

Ansul fire suppression system, 6 nozzle, complete with 2 actuators. Also includes a check fire detection, an activation system and a 20lb (9 kg) fire extinguisher.

ELECTRIC POWER PACK OPTIONS

● No Power Pack

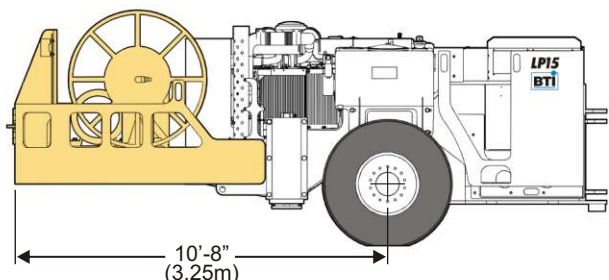
Standard bumper



▲ Power Pack

Bumper mounted, 50 HP 75 cc/rev piston pump for boom and breaker circuits. Complete with starter panel.

Advise BTI of voltage at time of order.



▲ Power Pack with Cable Reel

Bumper mounted, 50 HP (37 kW) 75 cc/rev piston pump for boom and breaker circuits. Complete with starter panel.

Cable reel, max 246' (75m). Cable supplied by customer.

Advise BTI of voltage at time of order.

WHEEL CHOCK OPTIONS

● Standard ▲ Optional

● No Wheel Chocks



▲ Wheel Chocks - aluminum complete with holder

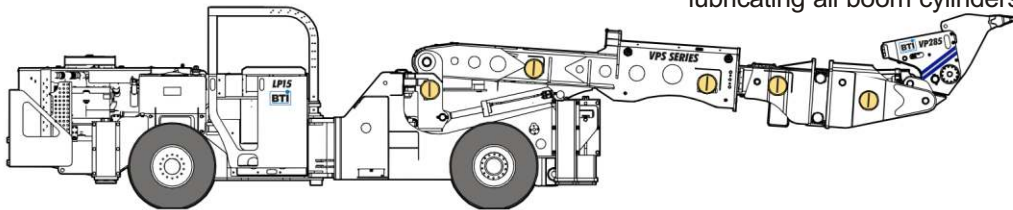
GREASING SYSTEM OPTIONS

● Point of Use

Point of use grease zerk, no remote greasing points

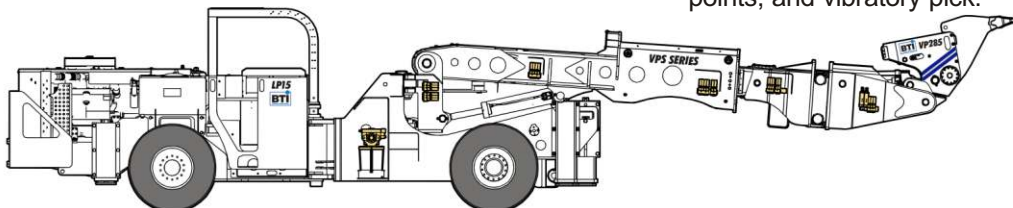
▲ Boom Manual Grease System

Manual greasing system. Strategically placed grease manifolds which are easily accessible by grease gun for lubricating all boom cylinders and boom pivot pins.



▲ Boom/Vibratory Pick Auto-Lube System

Auto grease system for boom and pick only. Hydraulic driven grease pump with 5 gal. (19 liter) reservoir, located on boom frame. Timer activated automatic grease injector manifolds for lubricating all boom cylinders, boom pivot points, and vibratory pick.

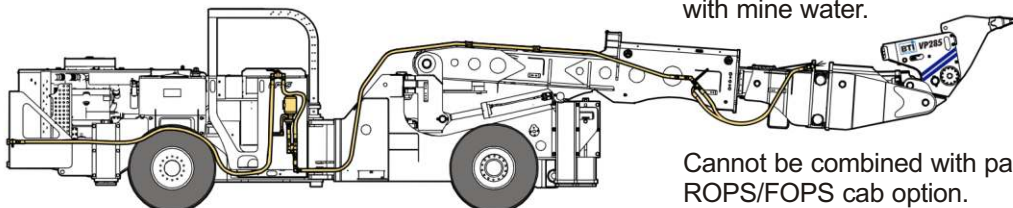


DUST SUPPRESSION SYSTEM OPTION

● No Dust Suppression System

▲ On-board System

Includes a 24Vdc water pump with a 35 gal. (132 liter) stainless steel reservoir, mounted in engine end wing compartment. Strategically located spray nozzles suppress dust at the pick tool. Activation switch is located on the remote control box. The system can also be used with mine water.



Cannot be combined with passenger seat option and/or ROPS/FOPS cab option.

DOZER BLADE OPTION

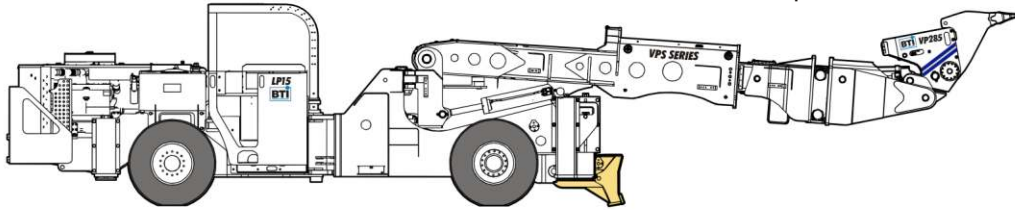
● Standard ▲ Optional

● No Dozer Blade

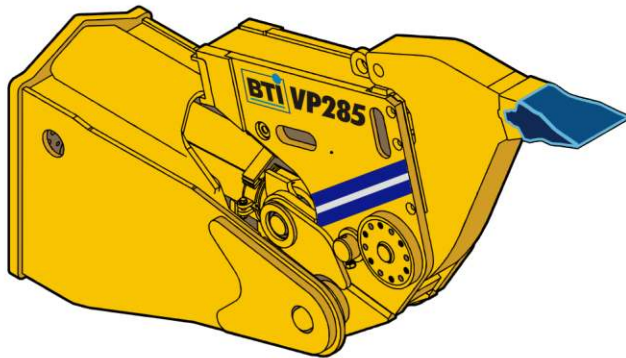
▲ Dozer Blade

Dozer blade is 9'-10" (2.74m) wide, twin 5" (125mm) hydraulic cylinders in a low profile mounting configuration.

Dozer blade option used for cleaning fallen loose material, allowing the machine to advance closer to the face of the next setup.



VIBRATORY PICK SCALING HEAD

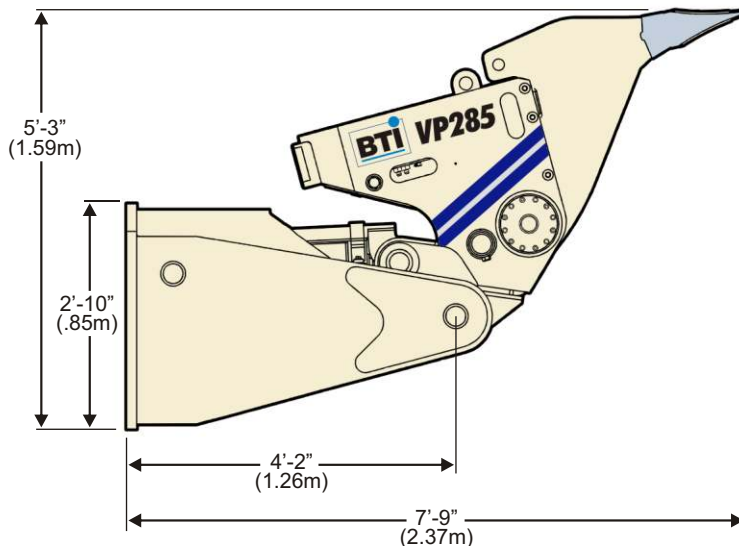


● VP285 Vibratory Pick Scaler

The patented VP series Vibratory Pick Scaling Head attachment brings mechanical scaling to a new level by combining the action of a pry-bar, pick and breaker into a simple robust attachment that increases productivity while reducing operator fatigue and stress to the carrier.

● Spade Tooth - 5" (125mm)

Provides balanced width and vibration for limited penetration into scaling surface for finishing of ribs and faces.



VP285 Specifications

- Flow Rate: 10 - 15 gpm (38 - 58 lpm)
- Impact Energy: 300 - 850 ft/lbs (407 - 1,152 joules)
- CIMA Rating: 335 ft/lbs (455 Joules)
- Operating Pressure: 1,400 - 2,275 psi
- Operating Frequency: 730 - 1,120 bpm
- Pick Width: 5" (125mm)



10345-ENG-0209
All dimensions and specifications are subject to change without notice.

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