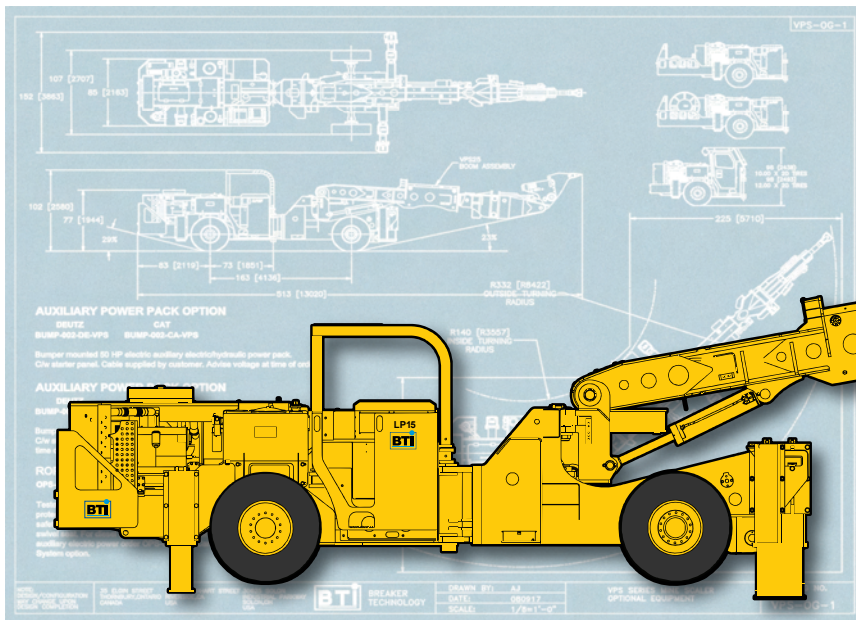




AT A GLANCE

Weights & Dimensions:

Operating Weight
VPS16: 45,160 lb (20,527 kg)
VPS25: 46,500 lb (21,136 kg)

Overall Trimming Length
VPS16: 39'-11" (12.17 m)
VPS25: 42'-6" (12.95 m)

Overall Width
9'-0" (2.7 m)

Trimming Height
8'-6" (2.6 m)

Carrier Articulation
+/- 45°

Inside Turning Radius
11'-8" (3.6 m)

Outside Turning Radius
VPS16: 25'-1" (7.6 m)
VPS25: 27'-8" (8.4 m)

Boom Swing
+/- 45°

Maximum Horizontal Reach
VPS16: 29'-10" (9.1 m)
VPS25: 34'-3" (10.4 m)

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

Engine Configurations:

● Standard ▲ Optional

- Deutz BF4M1013C
122 hp (91 kW) @ 2300 rpm
MSHA/Tier II
- ▲ Caterpillar C4.4 ACERT
127 hp (95 kW) @ 2200 rpm
Tier III

Vibratory Pick Scaler VP285

Impact Energy: 100 - 335 ft-lb (135 - 455 joule)
Operating Frequency: 730 - 1,120 bpm
Pick Width - solid plate: 5" (125 mm)

VPS SERIES - LP15 Vibratory Pick Scaler

FEATURES & BENEFITS

High speed / high mobility underground rockbreaking.

+/-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 trimming and breaking functions

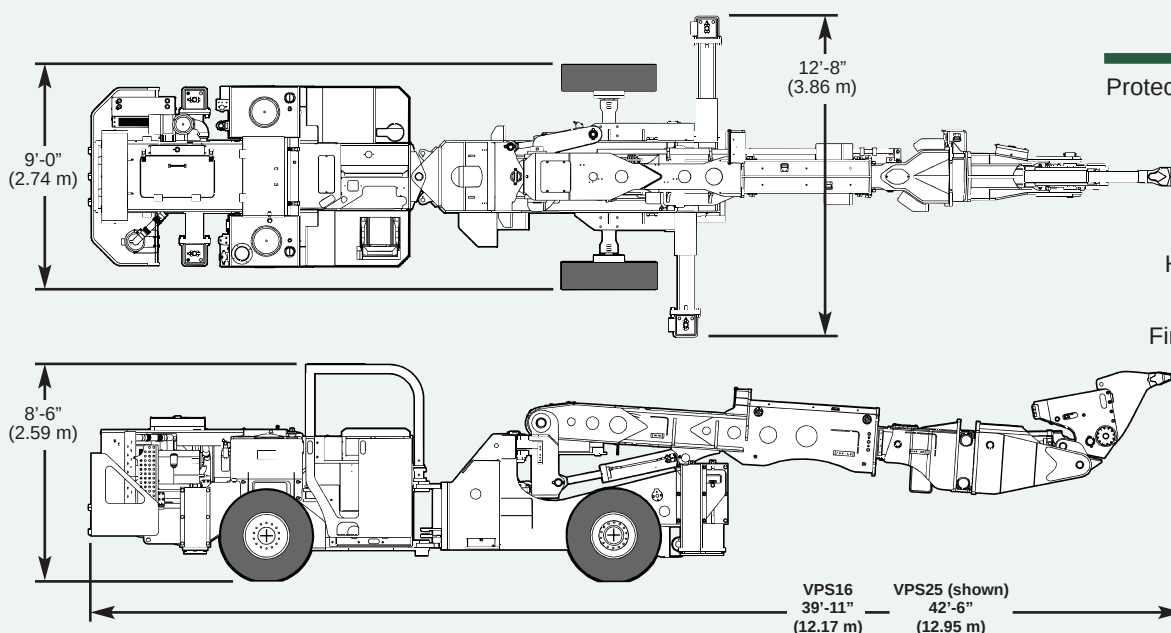
Four heavy duty tube-in-tube self-leveling stabilizers provide quick set up times and stable operation.

Purpose-built heavy duty, large cross-section boom provides excellent dexterity and strength when raking and breaking oversize material.

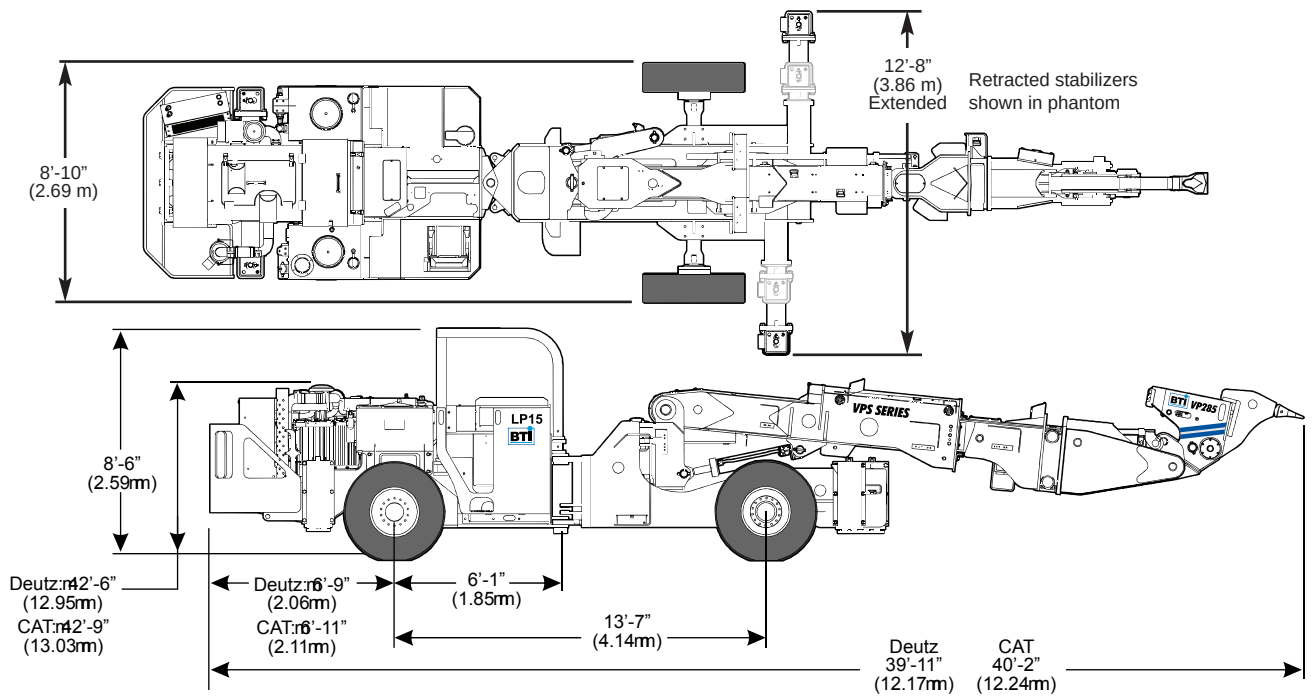
Patented Vibratory Pick provides fast, efficient scaling of rock surfaces.

OPTIONS

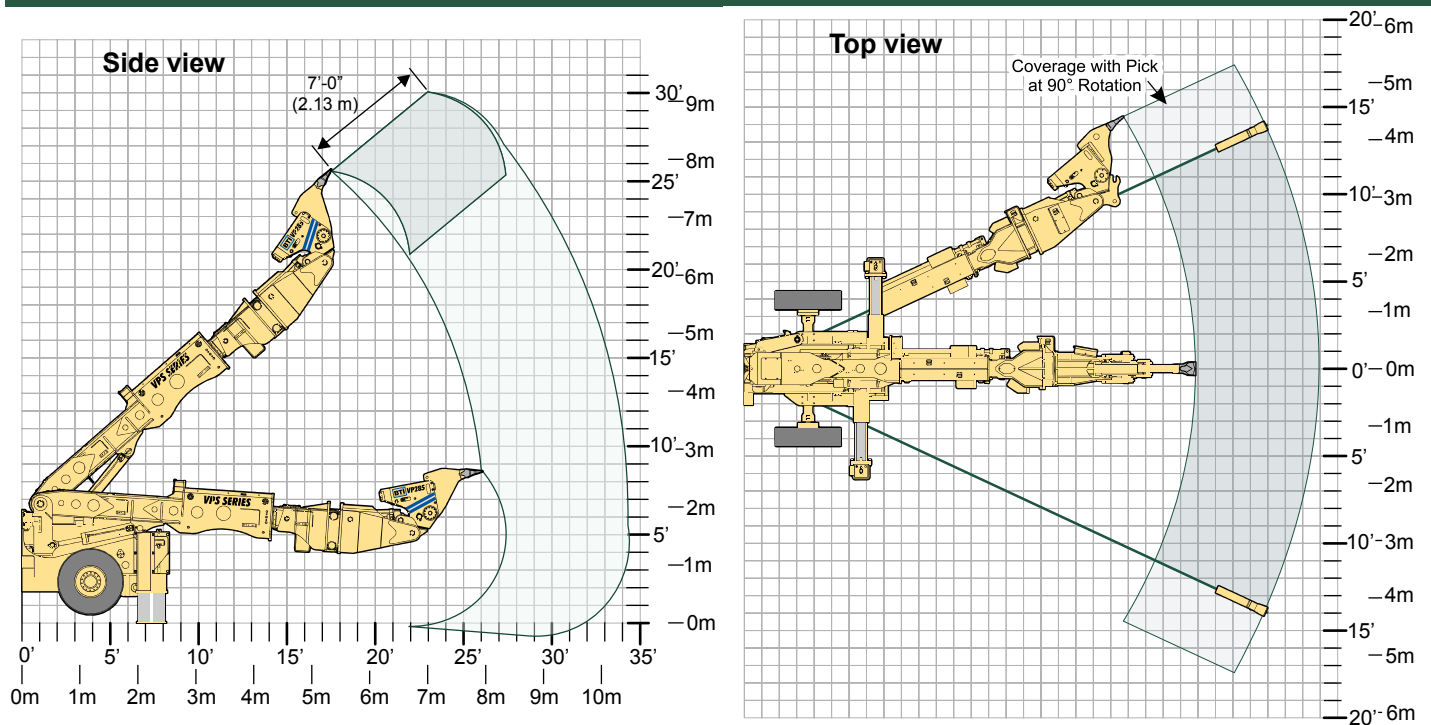
- Protective operator structure
- Seating configurations
- Air Intake system
- Exhaust system
- Fuel filling system
- Hydraulic filling system
- Tires
- Fire suppression system
- Electric power pack
- Wheel chocks
- Greasing system
- Dust suppression
- Dozer blade
- Vibratory pick



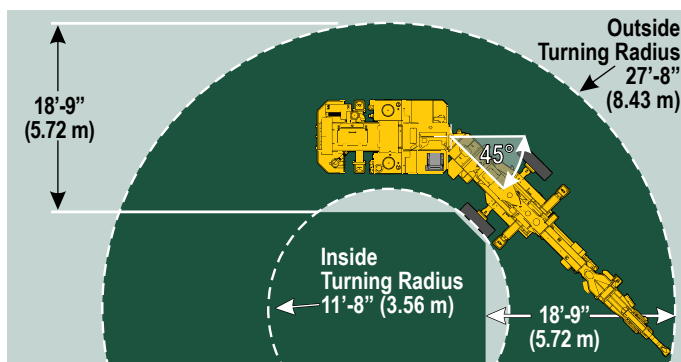
VPS16 SCALER DIMENSIONS



BREAKER COVERAGE



VPS16 TURNING RADIUS

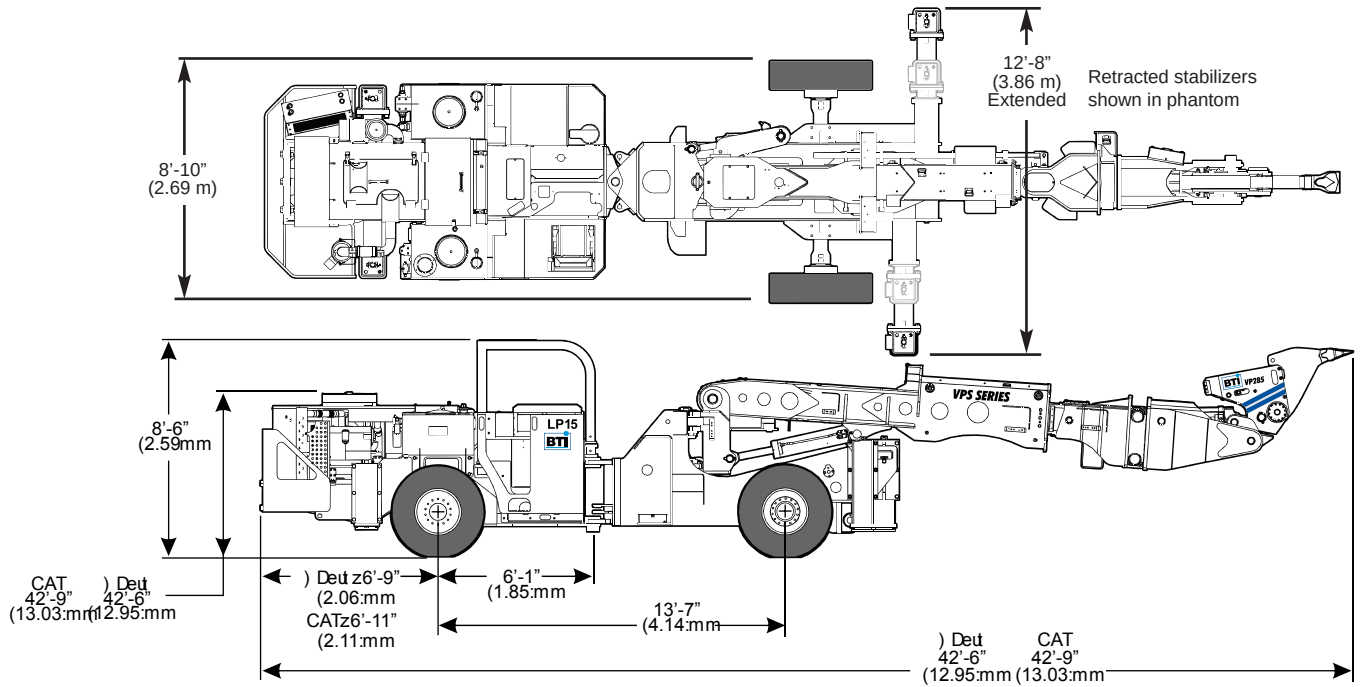


Turning Radius

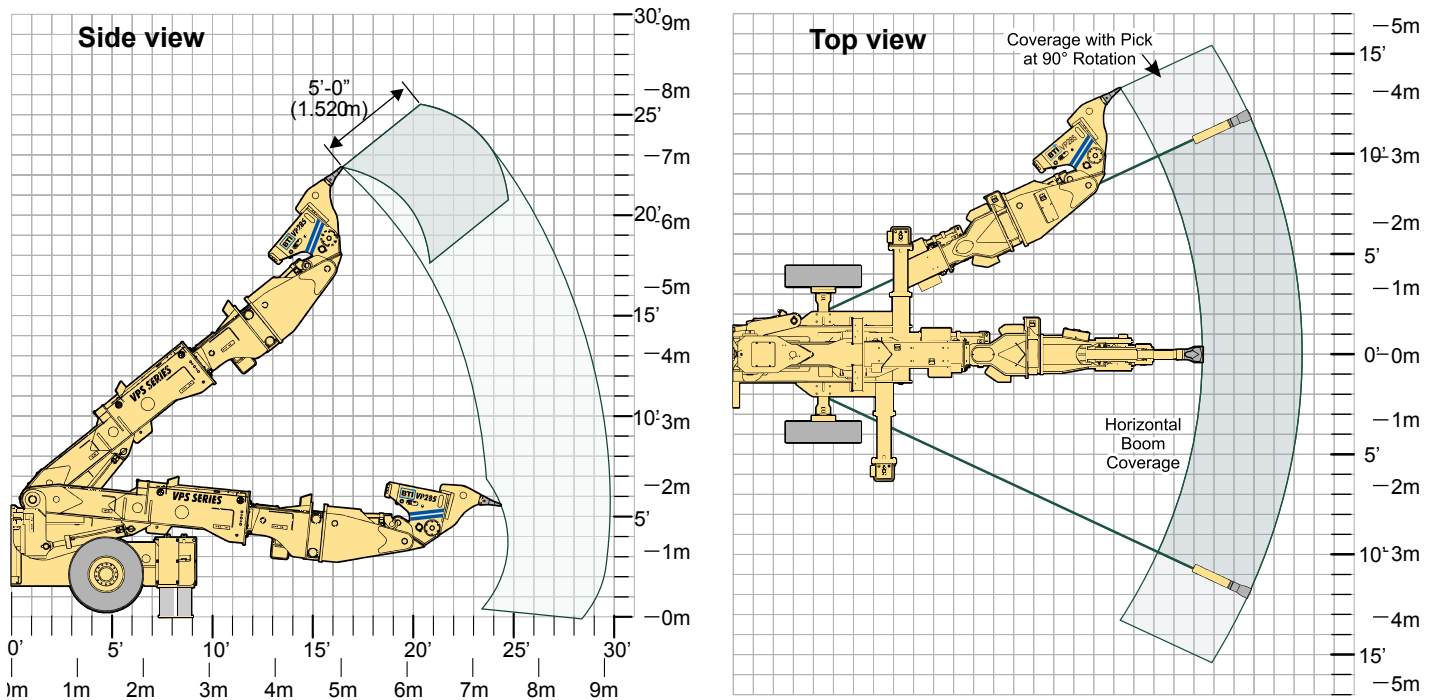
Turning radius: +/- 45° articulation

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

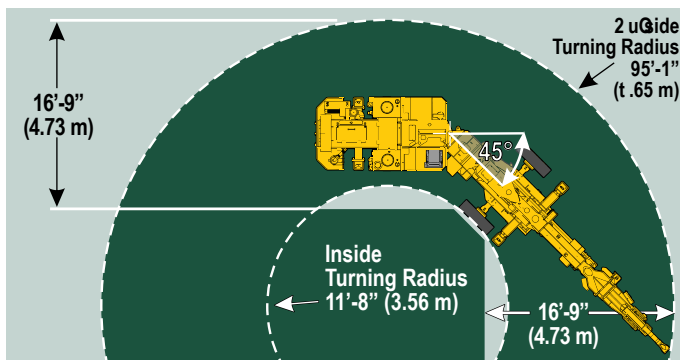
VPS25 SCALER DIMENSIONS



BREAKER COVERAGE



VPS25 TURNING RADIUS

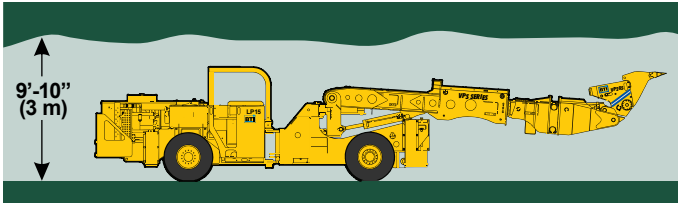


Turning Radius

Turning radius: +/- 45° articulation

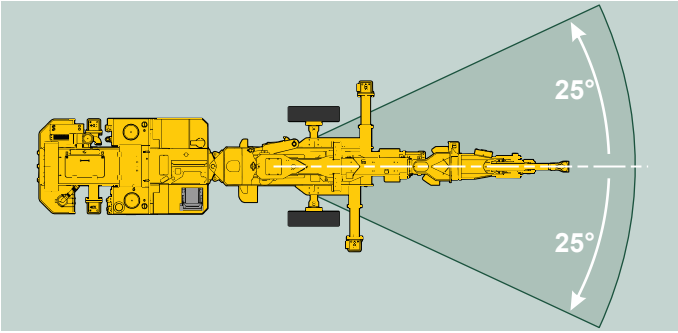
Boom should remain in-line with the carrier during tramming for optimum stability.

DRIVING AND SCALING SPECIFICATIONS



Recommended Drift Height

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



Boom Swing

Boom Swing: +/- 45°

Maximum Vertical Breaker Reach:

VPS16: 29'-10" (9.1 m)

VPS25: 34'-3" (10.4 m)

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

LP15 CARRIER - COMMON FEATURES

- Standard - common to all engine combinations
- ▲ Optional

Notes:

- 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
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" (100 mm) bore x 2" (50 mm) rod cylinder reinforced tube-in-tube construction providing 17" (432 mm) 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
- TIRES**
- Solid tires: 13:00 x 20

VPS CARRIER CONFIGURATIONS

● Standard ▲ Optional

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

- Deutz BF4M1013C
- ▲ Caterpillar C4.4 ACERT

- 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

- Suspension Seat – swivel
- ▲ Air Ride Seat – swivel

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

- Air Intake Filter
- ▲ Air Intake Pre-cleaner

- Catalytic exhaust
- ▲ Exhaust Manifold and Turbo Coating
- ▲ Exhaust System Wrap

- Fuel Tank, 50 gallon (189 liter)
- ▲ Fuel Tank with Fast Fill, 50 gallon (189 liter)

- Hydraulic Tank, 50 gallon (189 liter)
- ▲ Hydraulic Tank with Fast Fill, 50 gallon (189 liter)

- 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

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

- No Wheel Chocks
- ▲ Aluminum Wheel Chocks

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

VPS CARRIER - COMMON FEATURES

Choose one per group

● Standard ▲ Optional

Notes:

DUST SUPPRESSION SYSTEM

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

DOZER BLADE

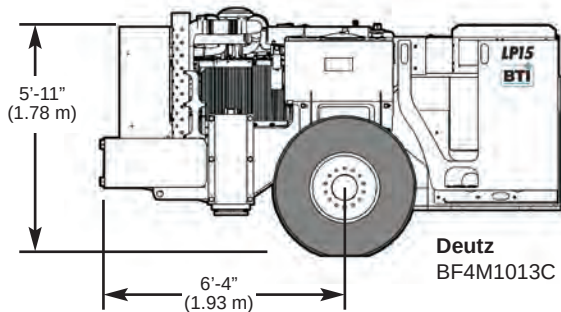
- No dozer blade
- ▲ Dozer blade

SCALER BOOM

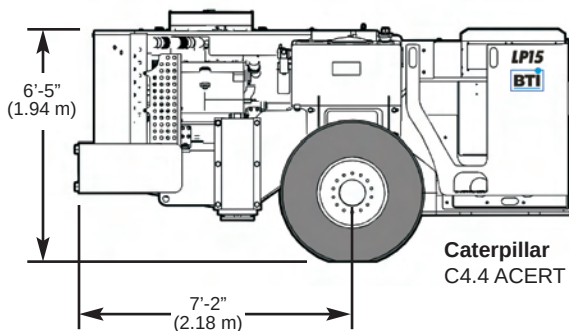
- Patented VP285 Vibratory Pick System
- Portable umbilical cord remove control pendant for boom
- Hoist - Swing +/-25°
- VPS16 mobile boom system
- ▲ VPS25 mobile boom system

POWERTRAIN GROUP OPTIONS

● Standard ▲ Optional



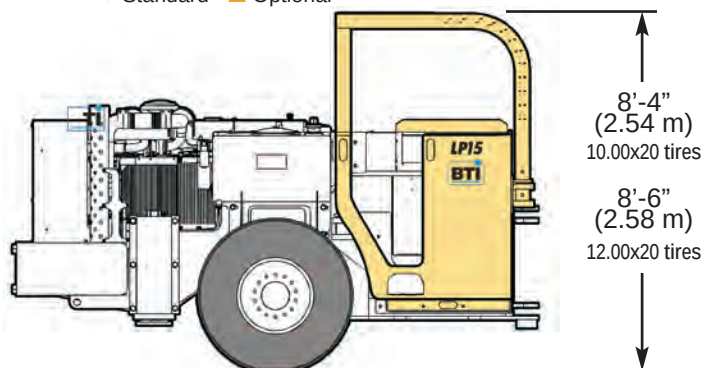
- Engine: Deutz BF4M1013C, four cylinder, turbocharged, intercooled diesel, MSHA/Tier II, 122 hp (91 kW) @ 2300 rpm c/w fuel filter and water separator
- Torque converter: Clark C2000 series
- Transmission: Clark 20,000 series, long drop, remote mounted, electric shift
- Three forward and three reverse speeds
- Vehicle speeds with 12 x 20 tires @ 2200 rpm with standard axle ratio:
- 1st gear: 2.4 mph (3.9 kph) • 2nd: 6.2 mph (10.0 kph) • 3rd: 11.4 mph (18.3 kph)
- 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 (95 kW) @ 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: 2.4 mph (3.9 kph) • 2nd: 6.2 mph (10.0 kph) • 3rd: 11.4 mph (18.3 kph)
- 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

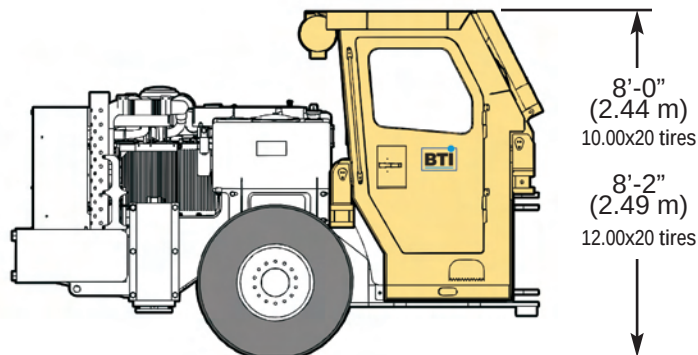
PROTECTIVE STRUCTURES OPTIONS

● 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.



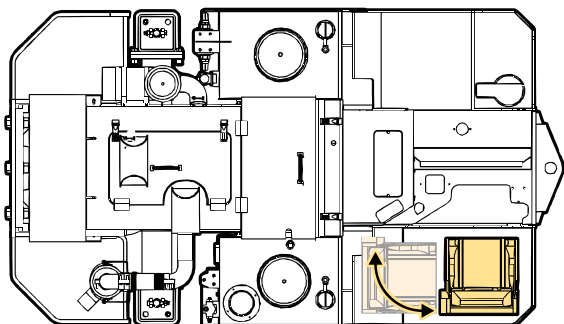
ROPS/FOPS Cab

▲ 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



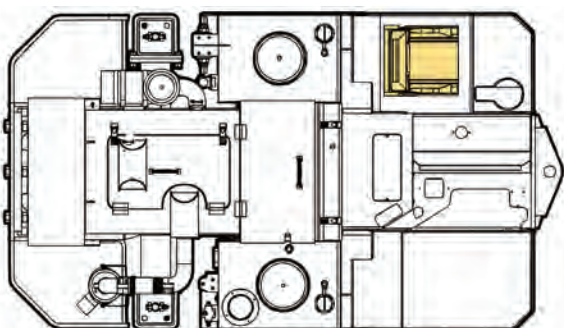
Operator Seat Options

● Suspension Seat ▲ Air Ride Seat

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

PASSENGER SEAT OPTIONS

● No Passenger Seat



Passenger Seat Options

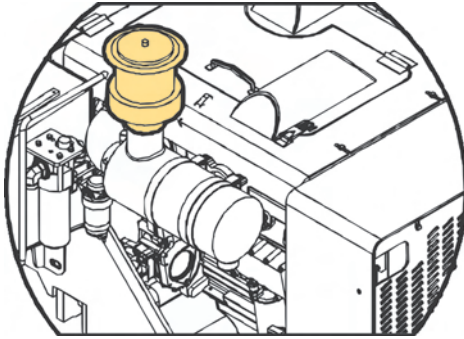
- ▲ **Suspension Seat:** Fixed suspension, mine duty passenger seat.
Note: cannot be combined with dust suppression system.
- ▲ **Air Ride Seat:** Fixed air ride, mine duty passenger seat.
Note: cannot be ordered if unit purchased with dust suppression system.

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 they reach the filter and ejecting them automatically via the exhaust.

EXHAUST SYSTEM OPTIONS

● Catalytic Exhaust

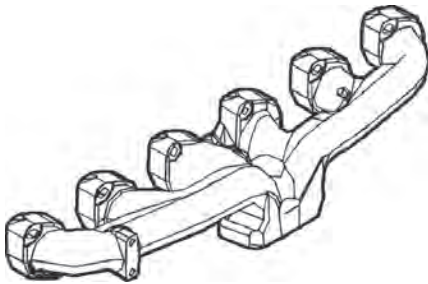
A catalytic exhaust, purifier/silencer. No exhaust blanket.

▲ 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.

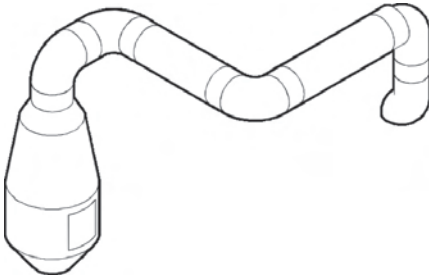


▲ Exhaust System Wrap

Prevents fluids from igniting on exhaust parts. High temperature performance.

Non-flammable. Protects personnel from burns.

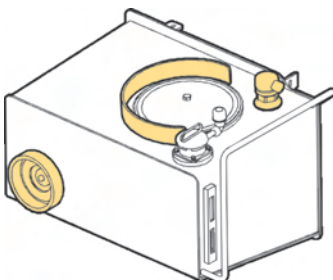
Lowers ambient temperature; cooler engine compartment, less heat stress on operators and maintenance personnel.



FUEL TANK OPTIONS

● Fuel Tank

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



▲ Fuel Tank with Fast Fill

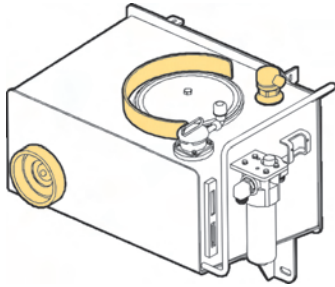
50 gallon (189 liter) fuel tank complete with Fast Fill filling system. Designed for on-site fast fluid transfer.

HYDRAULIC TANK OPTIONS

● Standard ▲ Optional

● Hydraulic Tank

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



▲ Hydraulic Tank with Fast Fill

50 gal (189 liter) Hydraulic tank complete with Fast Fill filling system. Designed for on-site fast fluid transfer.

FIRE SUPPRESSION SYSTEM OPTIONS

● Standard ▲ Optional

● No Fire Suppression System

▲ Fire Extinguisher

1 x 20 lb (9 kg) fire extinguisher.

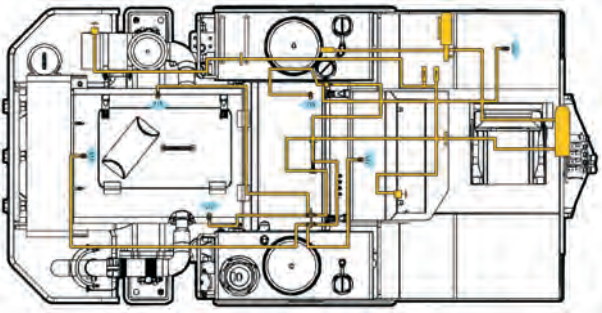


▲ Ansul Fire Suppression

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.



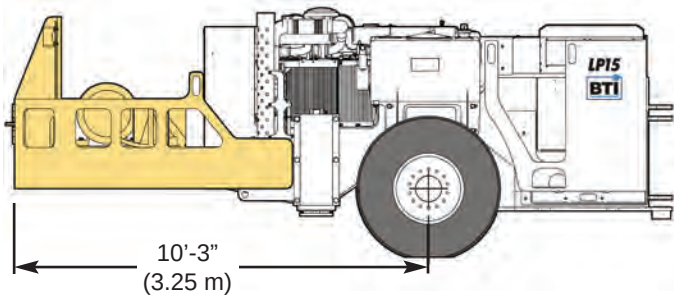
ELECTRIC POWER PACK OPTIONS

● No Power Pack

Standard bumper

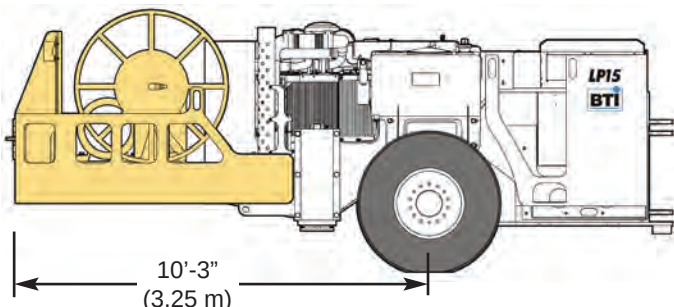
▲ Power Pack

Bumper mounted, 50 hp (37 kW) 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' (75 m). Cable supplied by customer. Advise BTI of voltage at time of order.



WHEEL CHOCK OPTIONS

● No Wheel Chocks



▲ Wheel Chocks - aluminum

Complete with holder

GREASING SYSTEM OPTIONS

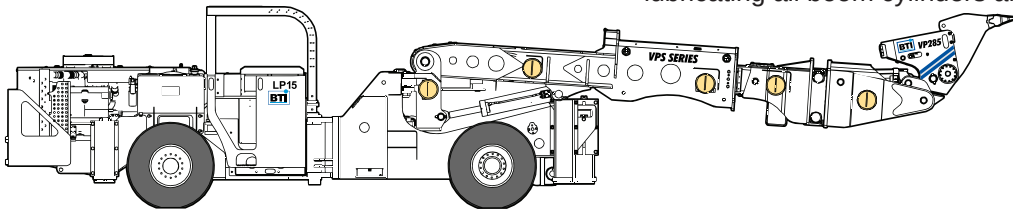
● Standard ▲ Optional

● Point of Use

Point of use grease zerk, no remote greasing points

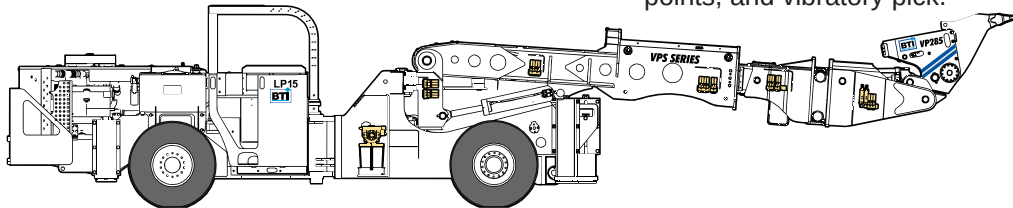
▲ Boom Manual Lube System

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.

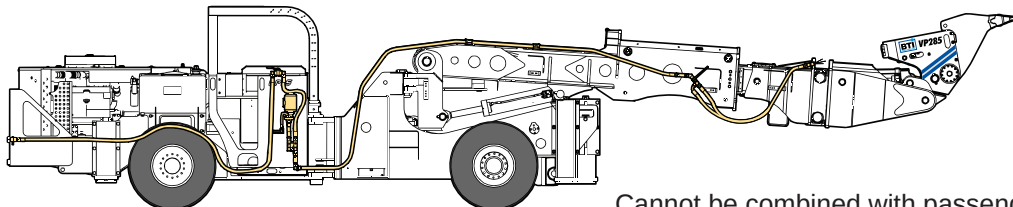


DUST SUPPRESSION SYSTEM OPTIONS

● No Dust Suppression System

▲ On-board System

Includes a 24 VDC 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.

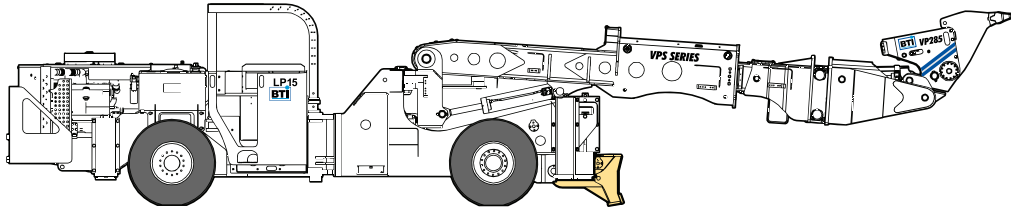
DOZER BLADE OPTION

● Standard ▲ Optional

● No Dozer Blade

▲ Dozer Blade

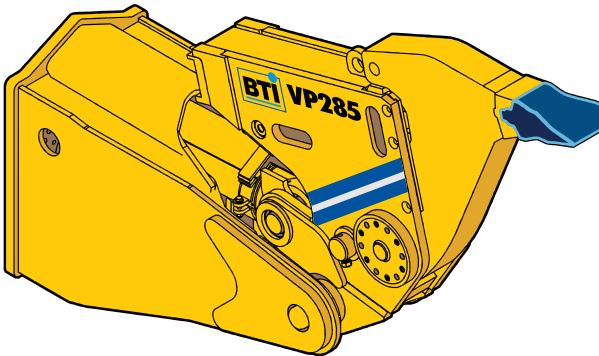
Dozer blade is 9'-10" (2.74 m) wide, twin 5" (125 mm) hydraulic cylinders in a low profile mounting configuration. Dozer blade option used for cleaning fallen loose material, allowing the machine to advance closer to the face of the next setup.



VIBRATORY PICK SCALING HEAD

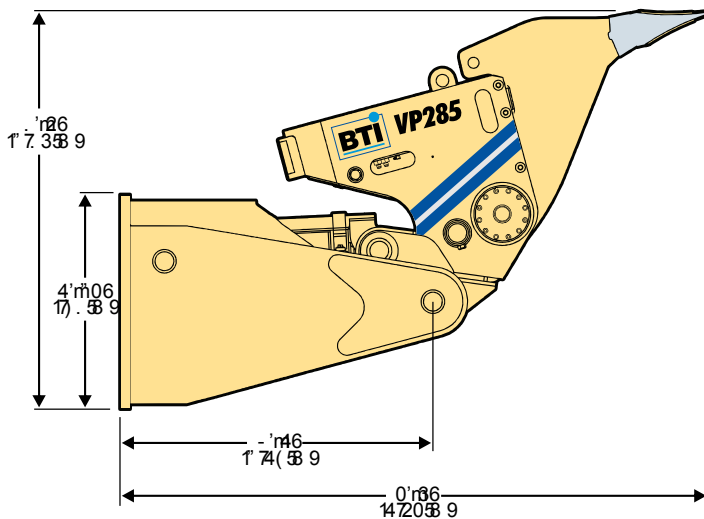
● VP285 Vibratory Pick Scaler

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" (125 mm)

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



VP285 Specifications

Flow Rate:	0 - 15 gpm (38 - 58 lpm)
Impact Energy:	300 - 850 ft-lb (407 - 1,152 joule)
CIMA Rating:	335 ft-lb (455 joule)
Operating Pressure:	1,400 - 2,275 psi
Operating Frequency:	730 - 1,120 bpm
Pick Width:	5" (125 mm)



10458-ENG-1009

All dimensions and specifications are subject to change without notice.

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