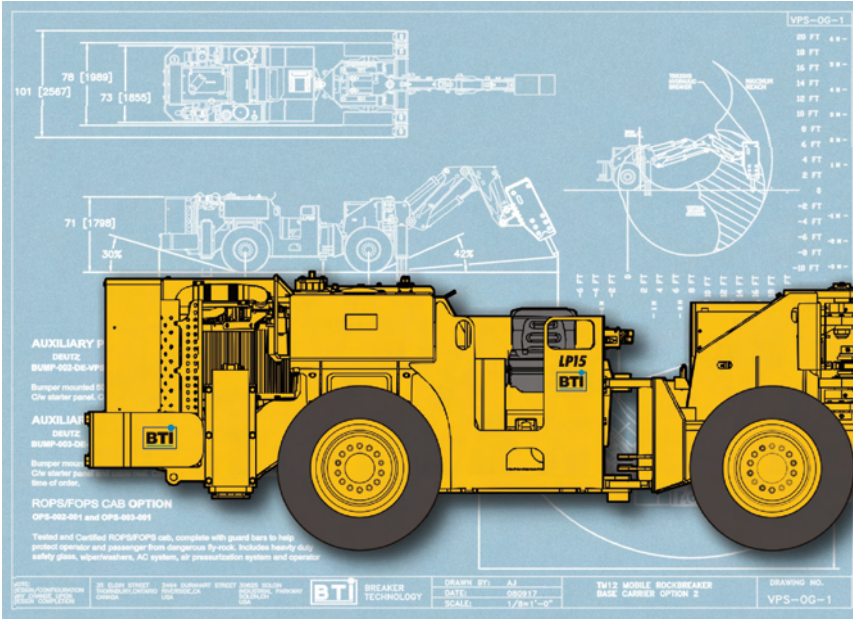


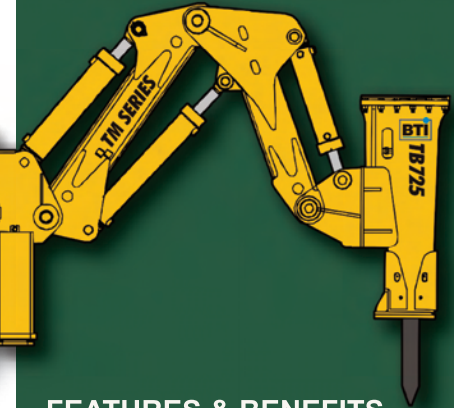


BREAKER TECHNOLOGY
an Astec company



TM12 - LP15

Mobile Rockbreaker



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 tramming 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.

Powerful hydraulic breaker quickly reduces oversize at grizzlies and draw points without explosives.

Low profile side mounted breaker provides low tram and operating heights.

AT A GLANCE

Weights & Dimensions:

Operating Weight 32,050 lb (14,570 kg)	Overall Trammng Length 30'-4" (9.2 m)	Overall Width 6'-6" (2.0 m)
Tramming Height 8'-3" (2.5 m)	Carrier Articulation +/- 45°	Inside Turning Radius 7'-10" (2.39 m)
Outside Turning Radius 19'-0" (5.8 m)	Boom Swing +/- 45°	Maximum Breaker Reach TB725XCS: 15'-9" (4.8 m) TB830XCS: 16'-6" (5.0 m)

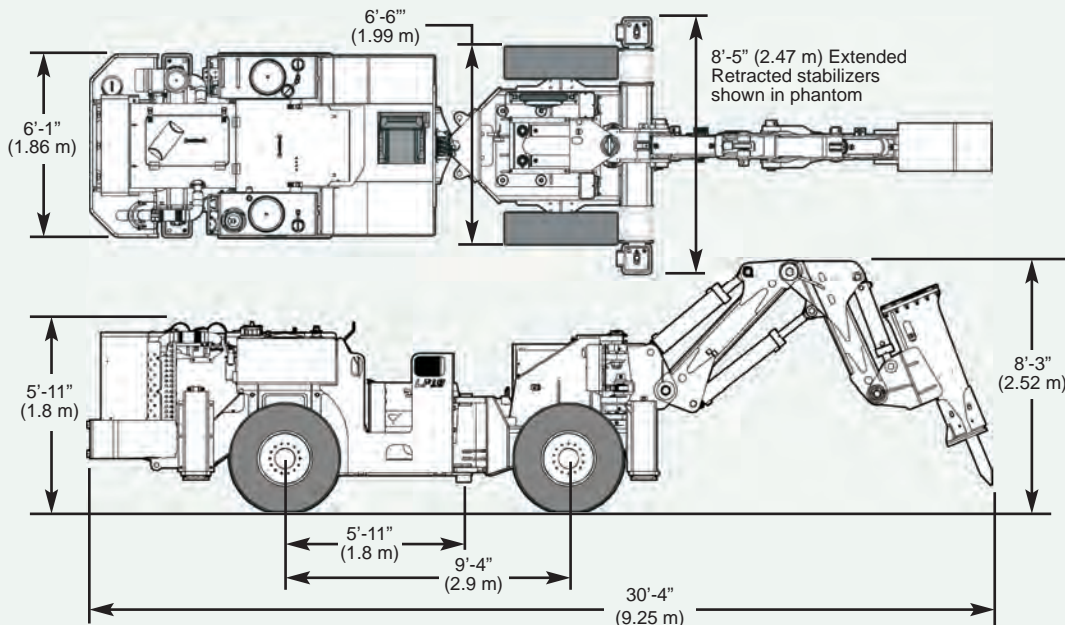
Note: Weights & dimensions are nominal and vary depending on final engine, operator's enclosure, & option configuration.

Engine Configurations:

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

Breaker

- TB725XCS
Energy Class: 2,000 ft-lb (2,712 joule)
Operating Weight: 2,350 lb (1,068 kg)
Blows/minute: 640 - 825
- TB830XCS
Energy Class: 3,000 ft-lb (4,068 joule)
Operating Weight: 2,490 lb (1,130 kg)
Blows/minute: 587 - 728

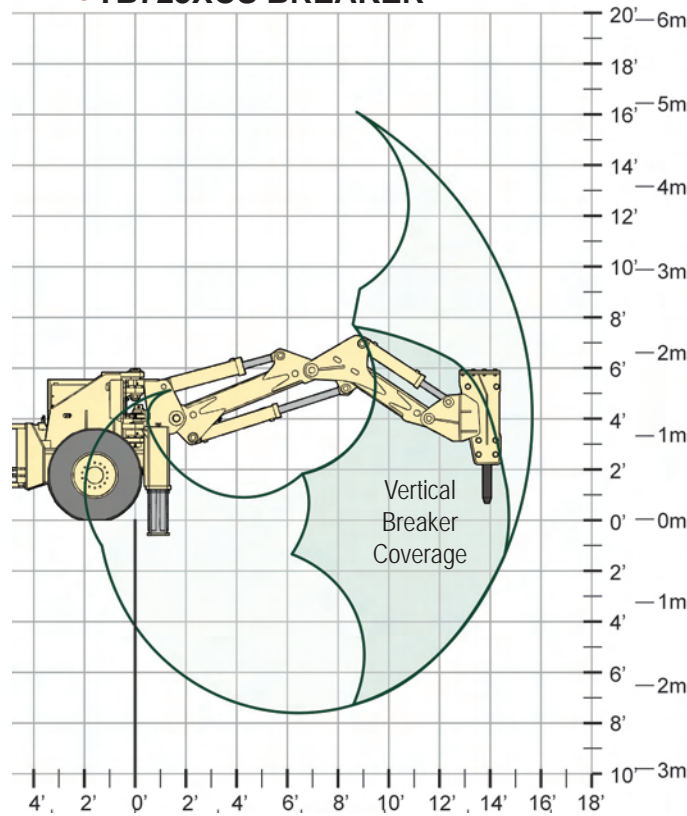


OPTIONS

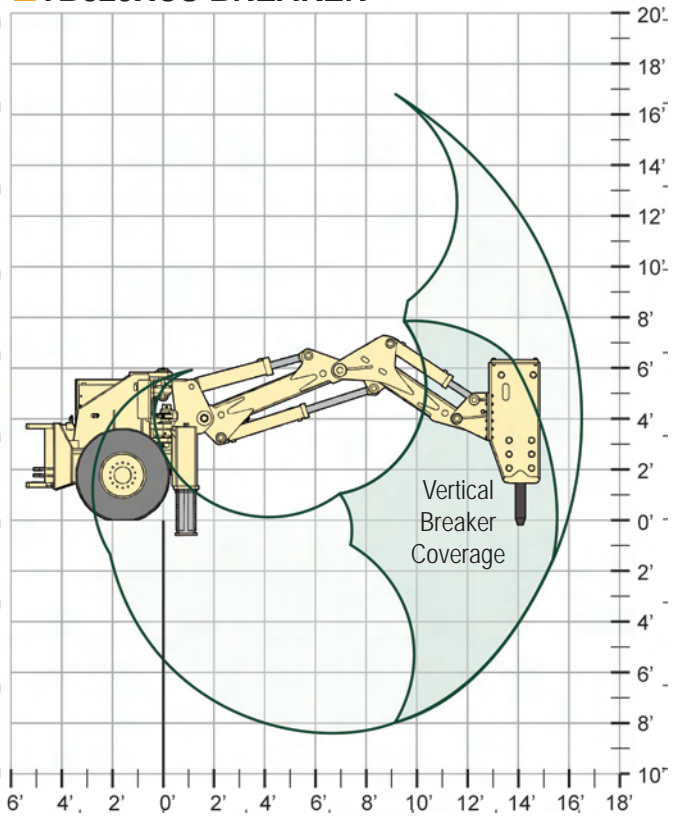
- Protective operator structure
- Air intake system
- Exhaust system
- Fuel filling system
- Hydraulic filling system
- Tires
- Fire suppression systems
- Electric power pack
- Wheel chocks
- Boom greasing system
- Breaker greasing system
- Dust suppression system
- Breakers
- Breaker tools

BREAKER COVERAGE

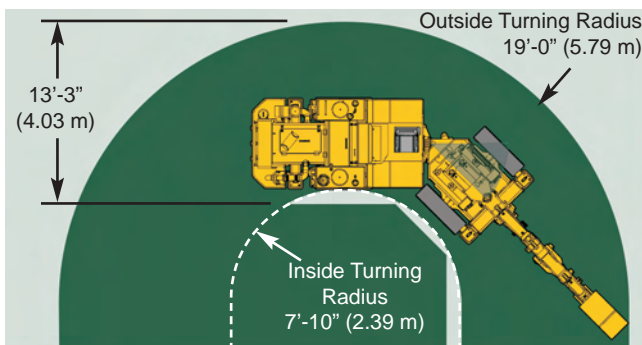
● TB725XCS BREAKER



▲ TB825XCS BREAKER



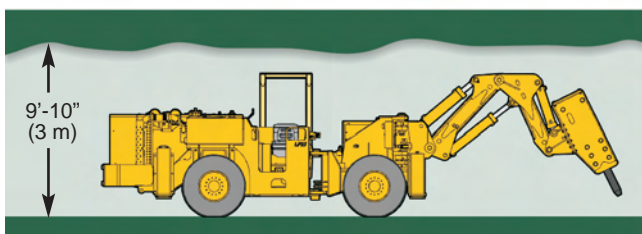
TRAMMING & ROCKBREAKING SPECIFICATIONS



Turning Radius

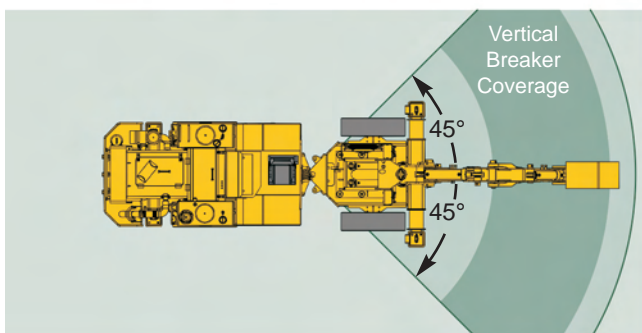
Turning radius: +/- 45° articulation

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



Recommended Drift Height

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



Boom Swing

Boom Swing: +/- 45°

Maximum Vertical Breaker Reach:

TB725XCS: 15'-9" (4.8 m)

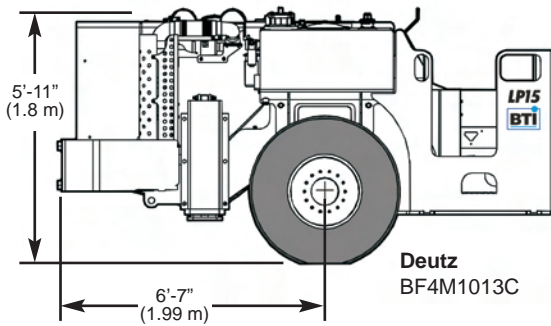
TB830XCS: 16'-6" (5.0 m)

Optimum breaker coverage is attained within the vertical breaking coverage area.

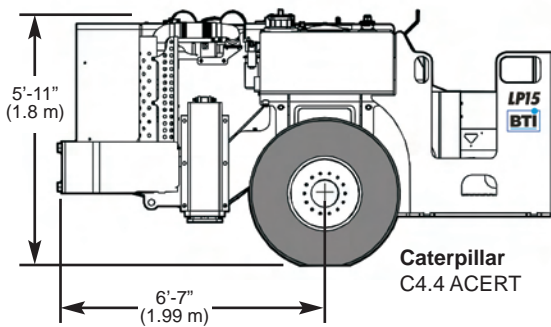
Carrier should be in a non-articulated state (in-line) with the front and rear jacks down while performing breaking and raking functions.

POWERTRAIN GROUP OPTIONS

- Standard
- ▲ Optional

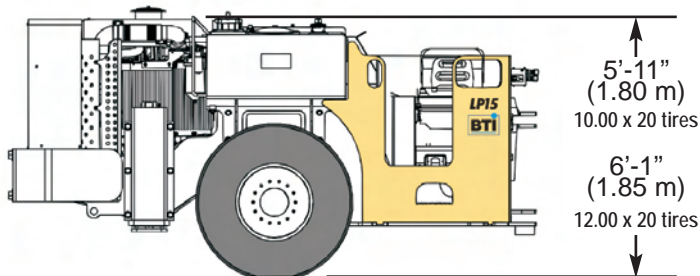


- **Engine:** Deutz BF4M1013C, four cylinder, turbocharged, intercooled diesel, MSHA/Tier II, 122 hp (91 kW) @ 2300 rpm c/w fuel filter and water separator
- Torque converter:** Clark C2000 series
- Transmission:** Clark 20,000 series, long drop, remote mounted, electric shift
Three forward and three 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:** New Holland D65X, no-spin differential, wet disk SAHR emergency brakes, wet disk HASR service brakes.
- Boom end axle:** New Holland D65X, no-spin differential, wet disk SAHR emergency brakes, wet disk HASR service brakes.
- Drivelines:** Mechanics 6C and 7C

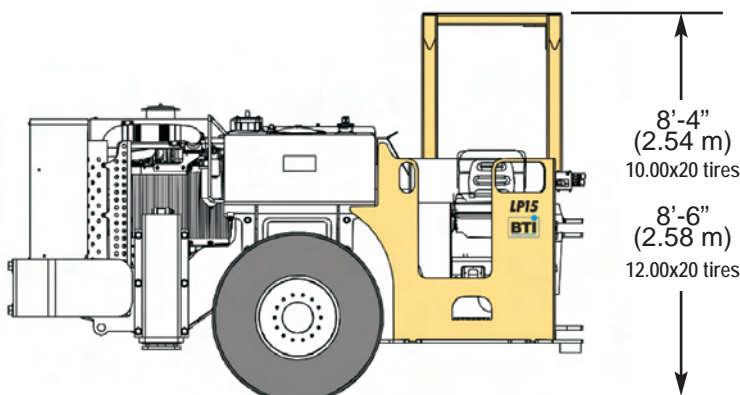


- ▲ **Engine:** Caterpillar C4.4 ACERT electronic four cylinder, turbocharged, intercooled diesel, Tier III, 127 hp (95 kW) @ 2200 rpm c/w fuel filter and water separator
- Torque converter:** Clark C2000 series
- Transmission:** Clark 20,000 series, long drop, remote mounted, electric shift
Three forward 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:** New Holland D65X, no-spin differential, wet disk SAHR emergency brakes, wet disk HASR service brakes.
- Boom end axle:** New Holland D65X, 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 operator compartment, no protective enclosure.



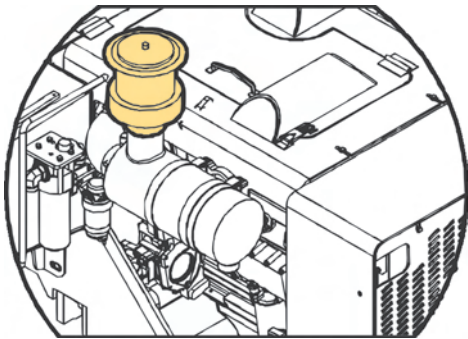
- ▲ **ROPS/FOPS Canopy**
ROPS/FOPS certified, open air, fly rock protection screen.

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

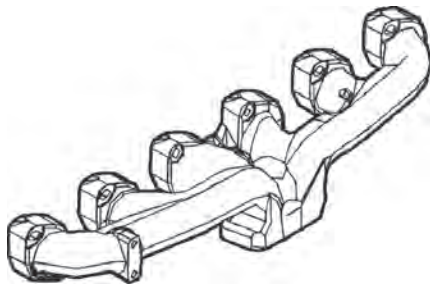
A catalytic exhaust, purifier/silencer. No exhaust blanket.

▲ 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.

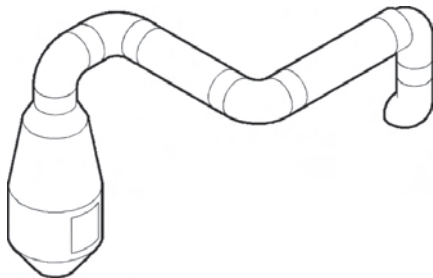


▲ Exhaust System Wrap

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.



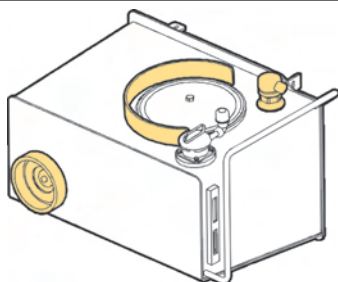
FUEL TANK OPTIONS

● 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.

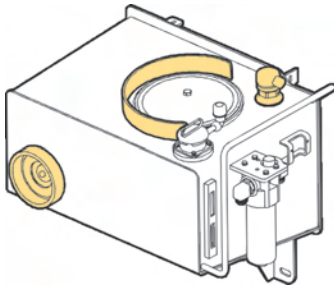


HYDRAULIC TANK OPTIONS

- Standard ▲ Optional

● Hydraulic Tank

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



▲ Hydraulic Tank with Fast Fill

50 gallon (189 liter) hydraulic tank complete with Fast Fill 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

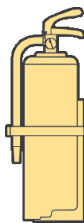
10:00 x 20 solid tires

FIRE SUPPRESSION SYSTEM OPTIONS

● No Fire Suppression System

▲ Fire Extinguisher

1 x 20 lb (9 kg) fire extinguisher.

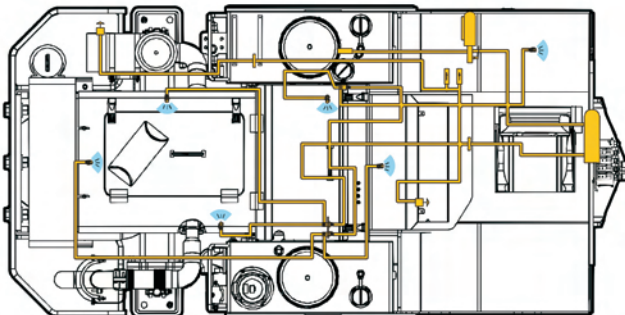


▲ Ansul Fire Suppression

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

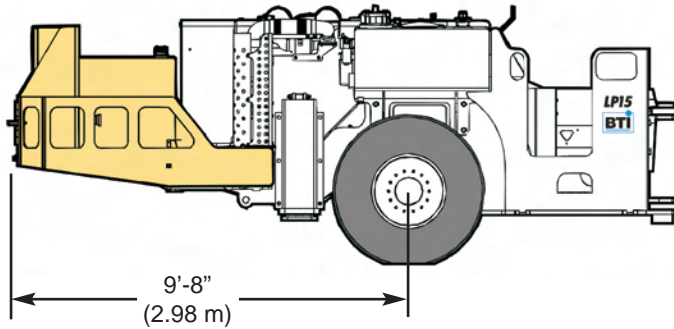
▲ Ansul Fire Suppression with Detection

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.



ELECTRIC POWER PACK OPTIONS

- Standard
- ▲ Optional



● No Power Pack

Standard bumper

▲ Power Pack

Power Pack, bumper mounted 60 hp (45 kW) electric motor, 100cc/rev pump c/w starter panel. Advise voltage at time of order. Cable reel not included.

WHEEL CHOCK OPTIONS

● No Wheel Chocks

▲ Wheel Chocks - aluminum

Complete with holder



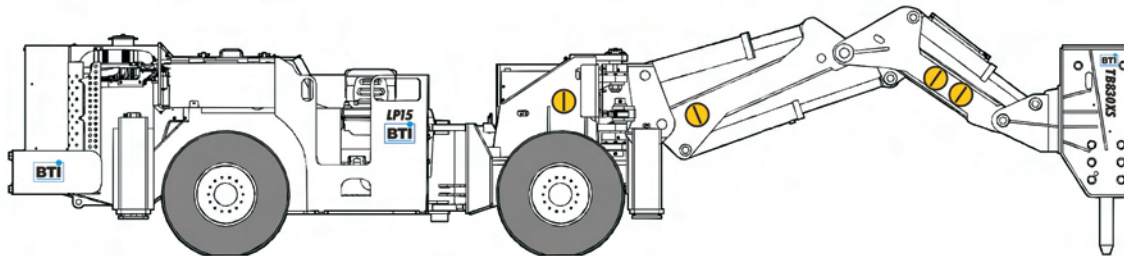
BOOM GREASING SYSTEM OPTIONS

● Point of Use

Point of use grease zerks, no remote greasing points.

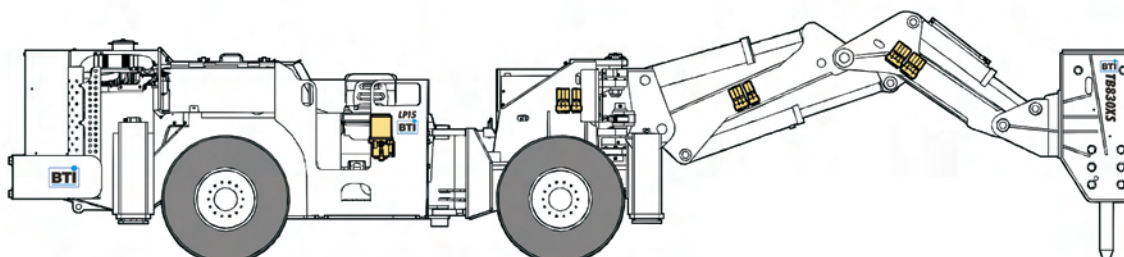
▲ Boom Manual Lube System

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



▲ Boom Auto-Lube System

24VDC grease pump with 2.1 gal (8 liter) reservoir. Located behind operator compartment. Timer activated automatic grease injector manifolds for lubricating all boom cylinders and boom pivot points.



BREAKER GREASING SYSTEM OPTIONS

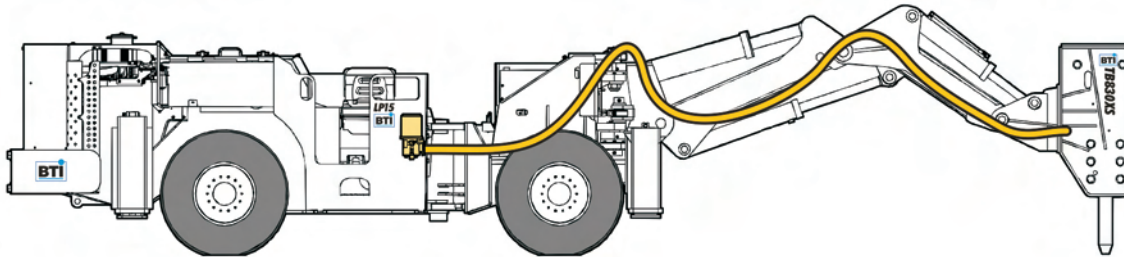
● Standard ▲ Optional

● Point of Use

Point of use grease zerk, no remote greasing points.

▲ Breaker Auto-Lube System

Auto greasing system, breaker only. Complete with 2 gal (8 liter) 24 VDC electric driven grease pump and reservoir. Pump is activated when breaker is fired via remote control. Use only BTI Chisel Paste.



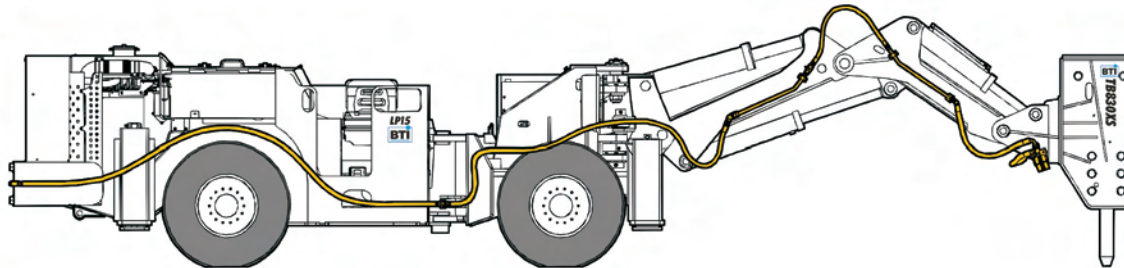
Note: Hose routing not exactly as shown.

DUST SUPPRESSION SYSTEM OPTIONS

● No Dust Suppression System

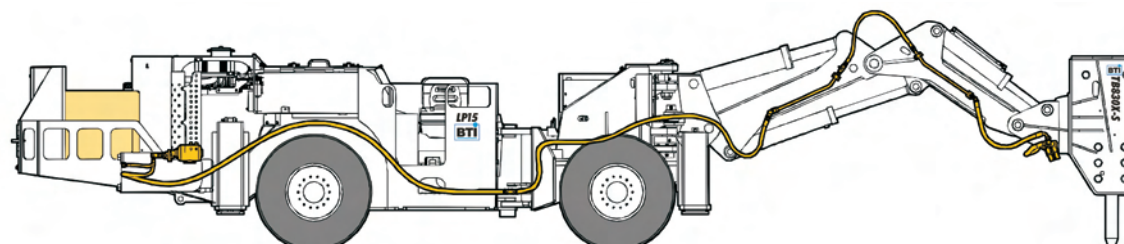
▲ Manual System

Manual system - mine water hookup with manual on/off valve.



▲ On-board System

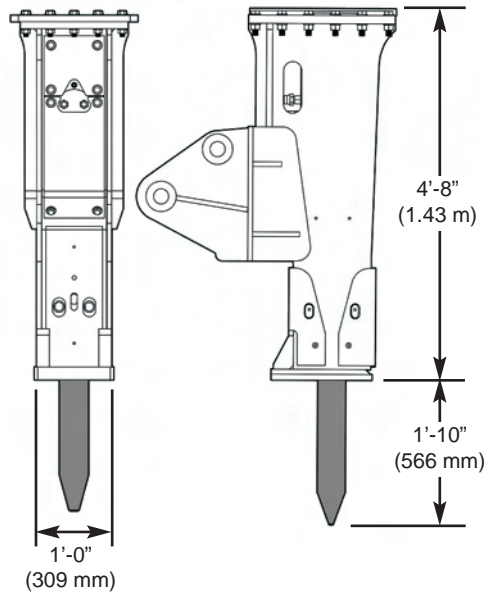
On-board System - 50 gal (189 liter) stainless steel water tank, c/w 24 VDC electric water pump, mounted on power pack bumper. Strategically located spray nozzles suppress dust at the breaker tool. Activation switch located on the remote control box. System can use mine water. NOTE: Must be combined with power pack option.



Note: Hose routing not exactly as shown.

BREAKER OPTIONS

● Standard ▲ Optional



TB725XCS BREAKER

● TB725XCS box housing design

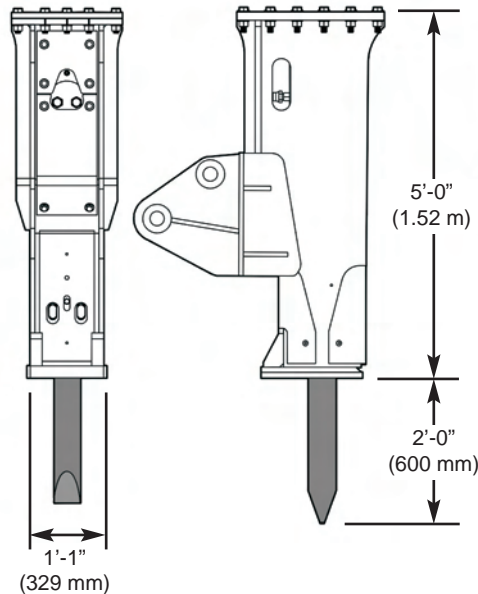
▲ TB725XCS Severe Duty Wear Kit, factory application of cast abrasion strips and wear resistant plate complete with rock claws. Only available with new units.

Energy Class: 2,000 ft-lb (2,712 joule)
CIMA Rating: 1,108 ft-lb (1,502 joule)
Blows per minute: 640 - 825
Oil Flow required: 25 - 31 US gal/min (94 - 118 l/min)
Working Pressure: 1,895 - 2,680 psi (130 - 185 bar)
Operating Weight: 2,500 lb (1,133 kg)
Tool Diameter: 4.5 in (115 mm)
Tool Weight: 169 lb (77 kg)

PRODUCTION

	Cubic Yards:	Cubic Meters:
	(yd ³ / 8 hr day)	(m ³ / 8 hr day)
Medium Rock:	150 - 225	115 - 172
Hard Rock:	100 - 200	76 - 153

(Values will vary depending on machine, operator, and job conditions)



TB830XCS BREAKER

● TB830XCS box housing design

▲ TB830XCS Severe Duty Wear Kit, factory application of cast abrasion strips and wear resistant plate complete with rock claws. Only available with new units.

Energy Class: 3,000 ft-lb (4,068 joule)
CIMA Rating: 1,635 ft-lb (2,217 joule)
Blows per minute: 587 - 728
Oil Flow required: 32 - 39 US gal/min (121 - 150 l/min)
Working Pressure: 1,740 - 2,540 psi (120 - 175 bar)
Operating Weight: 2,725 lb (1,235 kg)
Tool Diameter: 4.5 in (115 mm)
Tool Weight: 169 lb (77 kg)

PRODUCTION

	Cubic Yards:	Cubic Meters:
	(yd ³ / 8 hr day)	(m ³ / 8 hr day)
Medium Rock:	200 - 280	153 - 214
Hard Rock:	150 - 250	115 - 191

(Values will vary depending on machine, operator, and job conditions)

TOOL OPTIONS

Note: Qty of one tool of selected style is included per unit. If additional tools are required, please indicate at time of order.



● **Blunt** – For impact in hard material, such as hard rock. The blunt tool transfers energy into the material, causing the material to fracture.



▲ **Chisel** – For penetration in soft to medium materials, such as light rock. The chisel provides a splitting action, creating a fracture line to break the material.



▲ **Moil** – For penetration in soft material, such as reinforced concrete.



10457-ENG-1009

All dimensions and specifications are subject to change without notice.

