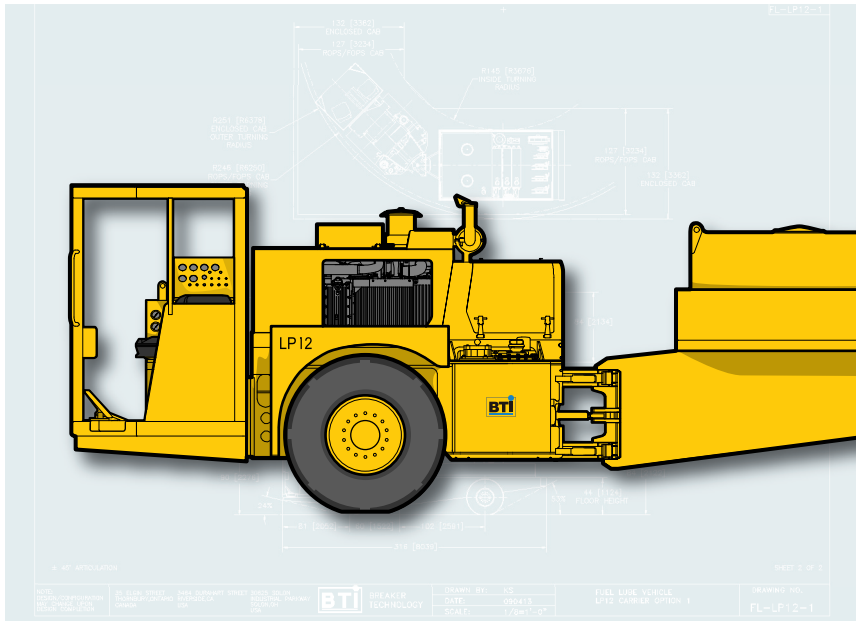


# FL SERIES - LP12

## Fuel Lube Vehicle



### AT A GLANCE

#### Weights & Dimensions:

<b>Operating Weight</b> 27,000 lb (12,273 kg)	<b>Overall Traming Length</b> 27'-2" (8.3 m)	<b>Overall Width</b> 7'-0" (2.13 m)
<b>Traming Height</b> 7'-6" (2.28 m)	<b>Carrier Articulation</b> +/- 45°	<b>Inside Turning Radius</b> 12'-1" (3.68 m)
<b>Outside Turning Radius</b> 20'-11" (6.38 m)		

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

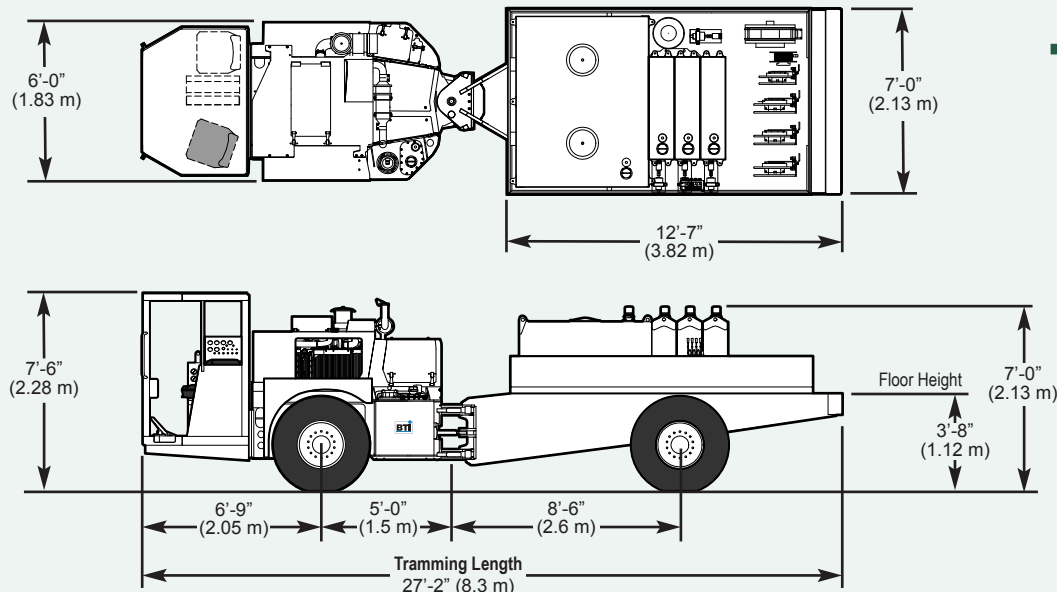
#### Engine Configurations:

● 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

**Diesel Fuel Reservoir** – 440 gal (2000 L)  
**Grease System** – 120 lb (55kg)  
**Three Fluid Storage Tanks** – 44 gal (200 L) each

**Delivery hoses and systems for all reservoirs**  
**Grounding clamp and reel**  
**Spill Containment System**



### FEATURES & BENEFITS

High speed / high mobility underground fuel lubrication vehicle.

+/-45° vehicle articulation for tight turning radius.

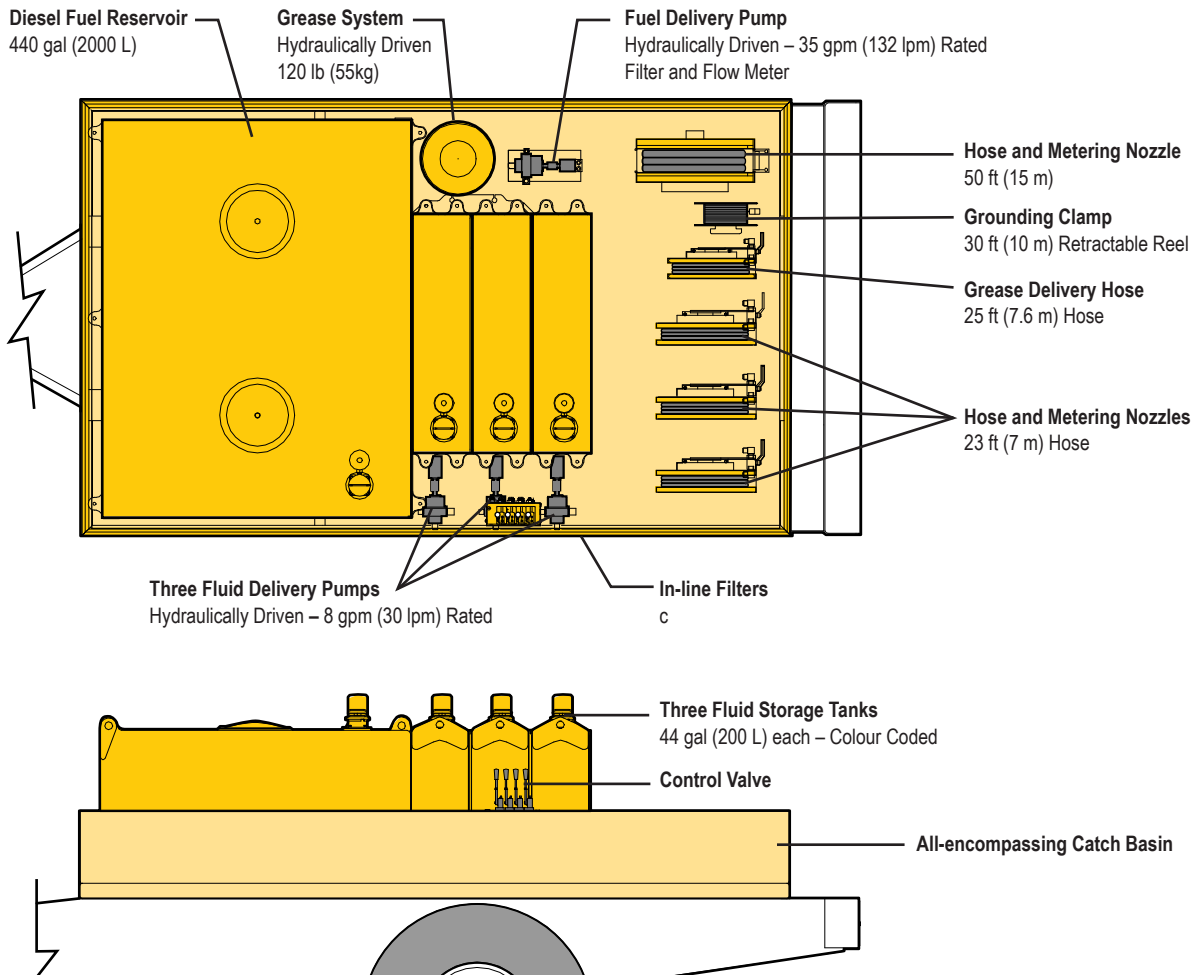
Close coupled engine/transverter provides a short turning radius and excellent weight distribution.

Operator's compartment provides comfort and visibility for operator and passenger.

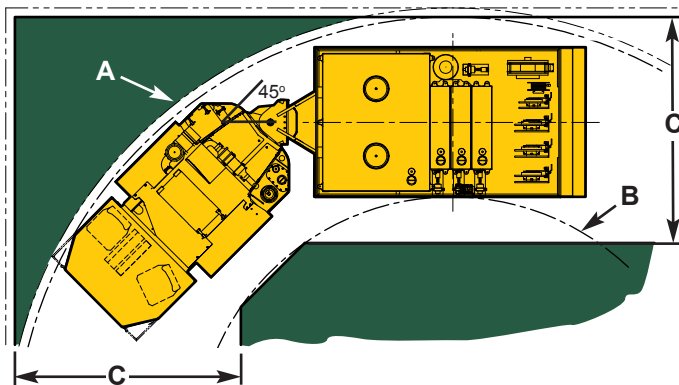
### OPTIONS

- Protective operator structure
- Seating configurations
- Air intake system
- Exhaust system
- Hydraulic filling system
- Tires
- Fire suppression system
- Wheel chocks
- Deck lighting

# FL SERIES (LP12) FUEL LUBE COMPONENTS



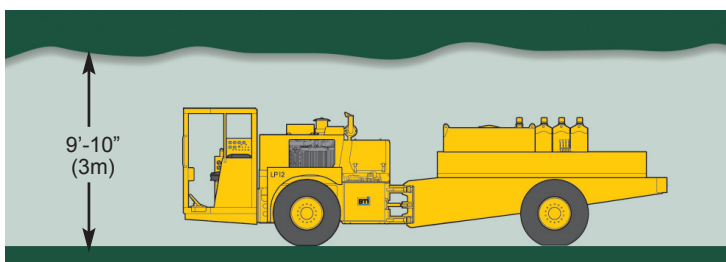
## DRIVING SPECIFICATIONS



### Turning Radius

Turning radius: +/- 45° articulation

		Fully Enclosed Cab	Open Air Canopy
A	Outside Turning Radius	20'-11" (6.38 m)	20'-6" (6.25 m)
B	Inside Turning Radius	12'-1" (3.7m)	
C	Minimum Mine Tunnel Width	11'-1" (3.36 m)	10'-7" (3.23 m)



### 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

Notes: \_\_\_\_\_

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- **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)
- **GREASE DELIVERY SYSTEM**  
120 lb (55 kg) grease reservoir  
25' (7.6m) hose and reel  
Hydraulically driven pump c/w in-line filter
- **FUEL DELIVERY SYSTEM**  
440 gallon (2000 liter) diesel fuel storage tank  
50' (15m) hose and reel with metering nozzle  
35 gpm (132 lpm) hydraulically driven fuel transfer pump c/w in-line filter  
30' (10m) anti-static grounding cable on retractable reel
- **FLUID DELIVERY SYSTEM**  
Qty of 3 - 44 gallon (200 liter) fluid storage tanks  
Qty of 3 - 23' (7m) hoses and reel with metering nozzles  
Qty of 3 - 8 gpm (30 lpm) hydraulically driven fluid transfer pumps c/w in-line filters

# FL (LP12) FUEL LUBE VEHICLE CONFIGURATIONS

- Choose one per group
- Standard
  - ▲ Optional

Notes: \_\_\_\_\_

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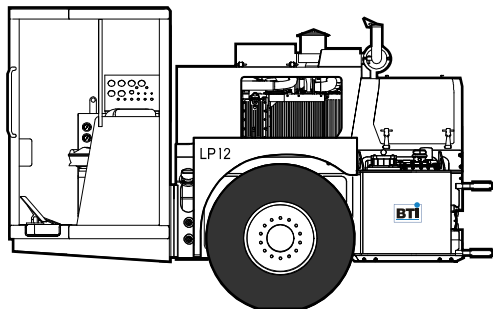
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- POWERTRAIN GROUPS**
- Deutz BF4M1013C
- ▲ Caterpillar C4.4 ACERT
- OPERATOR SEAT**
- Suspension Seat, fixed
- ▲ Air Ride Seat, fixed
- PASSENGER SEAT**
- No passenger seat
- ▲ Suspension Seat, fixed
- ▲ Air Ride Seat, fixed



## 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

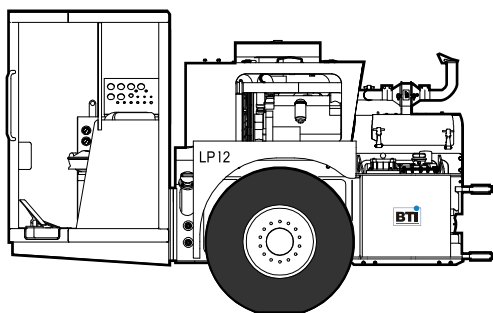
**Torque Converter:** Clark T20000 series

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

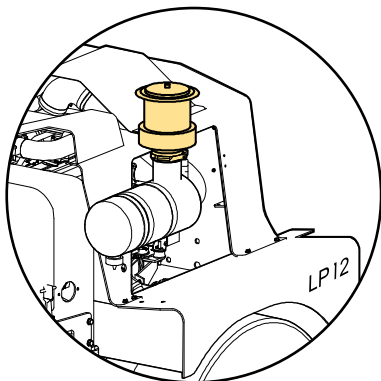
**Deck end axle:** New Holland D65X no spin differential wet disk SAHR emergency brakes, wet disk HASR service brakes

**Drivelines:** Mechanics 6C

## AIR INTAKE SYSTEM OPTIONS

### ● Air Intake Filter

A dry element filter with safety element and replacement indicator.



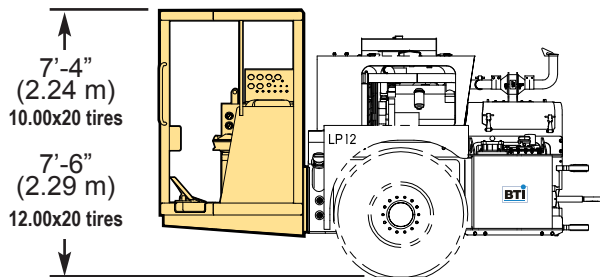
### ▲ Air Intake Precleaner

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.

## PROTECTIVE STRUCTURES OPTIONS

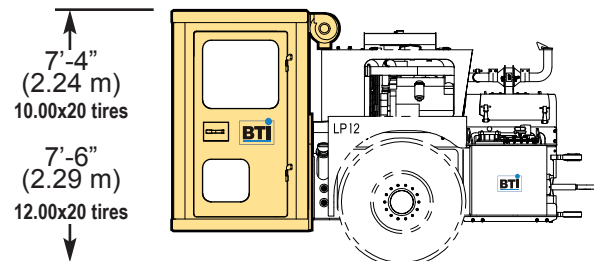
- Standard
- ▲ Optional



### ● Open Air Canopy – Uncertified

#### ▲ ROPS/FOPS Canopy

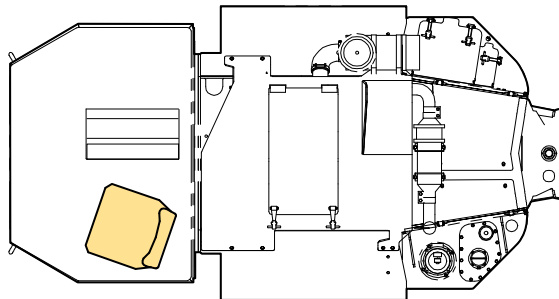
Open air canopy ROPS/FOPS certified



#### ▲ 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.

## OPERATOR SEAT OPTIONS

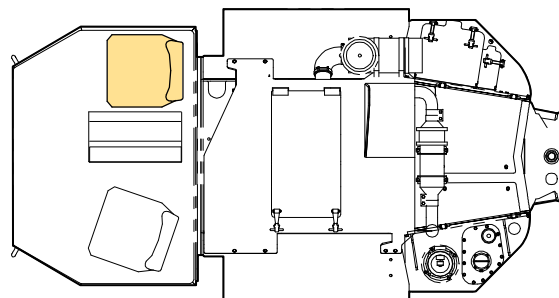


### Operator Seat Options

- Suspension Seat, fixed
- ▲ Air Ride Seat, fixed

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

## PASSENGER SEAT OPTIONS



### ● No Passenger Seat

### Passenger Seat Options

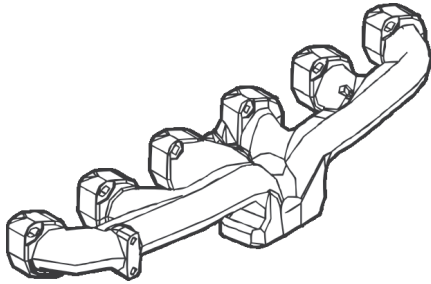
- ▲ Suspension Seat, fixed (facing front)
- ▲ Air Ride Seat, fixed (facing front)

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

## EXHAUST SYSTEM OPTIONS

### ● Catalytic Exhaust

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

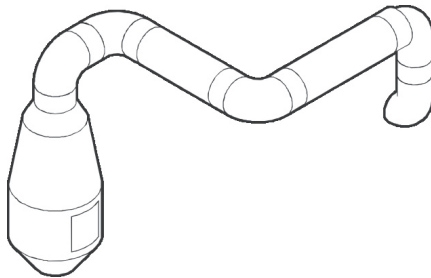


### ▲ Exhaust Manifold and Turbo Coating

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.

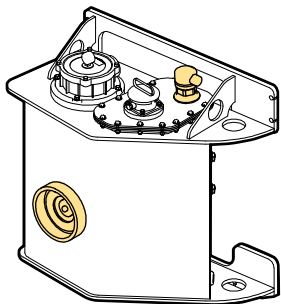
Non-flammable. Protects personnel from burns.

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

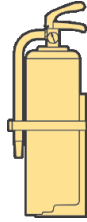
12:00 x 20 foam filled tires

### ▲ Solid Tires

10:00 x 20 solid tires

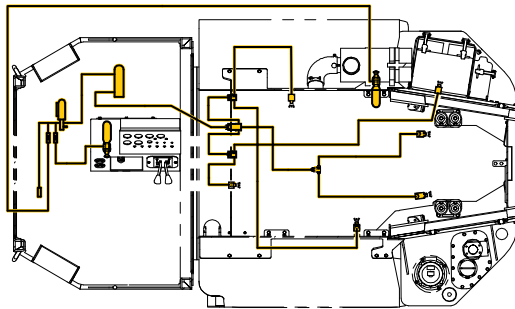
## FIRE SUPPRESSION SYSTEM OPTIONS

### ● No Fire Suppression System



### ▲ Fire Extinguisher

1 x 20 lb (9 kg) fire extinguisher.



### ▲ Ansul Fire Suppression

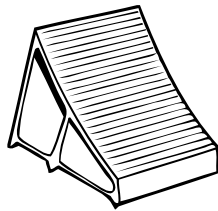
Ansul fire suppression system, 6 nozzle, complete with 2 actuators. Complete with 20 lb (9 kg) fire extinguisher.

### ▲ 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

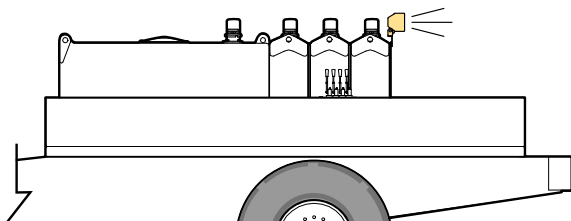


### ▲ Wheel Chocks - aluminum

complete with holder

## DECK LIGHTING OPTIONS

### ● No Deck Lighting



### ▲ Qty 2 - 70W Deck Lights

Halogen lamp 24V 70 watt



10461-ENG-1009

All dimensions and specifications are subject to change without notice.