

# ATTACHMENT I

## EMULSION TANK

Type of Equipment	Brand Name	Model	Price Book/Catalog Date of Manufacturer's Current Published Retail Price List	Percentage off discount %
EMULSION	PB LOADER	PUMP	2017	-1
EMULSION	PB LOADER	PRESSURE	2017	-1
	BODY ONLY			

Attachments/Accessories: 1 % OEM Repair Parts: 1 % Options: 1 %  
Multiple Unit discount: 1 % (In addition to the equipment discount) based on 4 Units purchased  
Extended Warranty offered? X Yes      No If yes, please attach information for the extended warranty purchase.  
Discount offered      %

EXTENDED WARRANTY IS PRICED ON CASE BY CASE BASIS IF MANUFACTURE OFFERS IT ON COMPONENT

**ATTACHMENT L**  
**PATCH TRUCK, PATCHERS**

[illegible]

Attachments/Accessories: -1 % OEM Repair Parts: -1 % Options: -1 %  
Multiple Unit discount: -1 % (In addition to the equipment discount) based on 4 Units purchased  
Extended Warranty offered? X Yes      No If yes, please attach information for the extended warranty purchase.  
Discount offered      %

EXTENDED WARRANTY IS PRICED ON CASE BY CASE BASIS IF MANUFACTURER OFFERS IT ON COMPONENT

## SPRAYER/WATER TRUCK/WATER TANK

[illegible]

Attachments/Accessories: +7 % OEM Repair Parts: +7 % Options: +7 %  
Multiple Unit discount: NO % (In addition to the equipment discount) based on \_\_\_\_\_ Units purchased  
Extended Warranty offered? X Yes \_\_\_\_\_ No If yes, please attach information for the extended warranty purchase.  
Discount offered \_\_\_\_\_ %

EXTENDED WARRANTY IS PRICED ON CASE BY CASE BASIS IF MANUFACTURE OFFENS IT ON COMPONENT



**J&R  
EQUIPMENT LLC**  
8800 S.W. 8TH ST.  
OKLAHOMA CITY, OK 73128  
PH: (405) 495-5110  
[jandrequipment.com](http://jandrequipment.com)

Response to Technical requirements.

1. We offer discounts all year long. If manufactures have additional discount opportunities we often pass along additional discount to the customer.
2. We have been in business for 12 years, from time to time there has been a bulletin sent to us by different manufactures to inspect or replace certain parts. The cost has been very little and we have not tracked it to the penny. Typically this is a very rare occasion and we might go to the customer's facility and inspect to see if anything needs to be corrected. If so the customer pays nothing for the service. Never a machine, typically just a part or visual inspection is required.
3. No
4. 45-120 days after chassis arrives at factory.
5. 12 years
6. Yes we offer discounts on extended warranty and typically the longest term is up to 5 years . Different manufactures offer various terms from 2-5 years parts and labor and workmanship.
7. No on green hydraulic fluids. We use what the manufactures recommend as they approve green hydraulic fluids it will be available to the end customer.
8. We can assist in helping the customer find an approved chassis for our equipment. This can be added to our bid or they can purchase it directly from the state contract for chassis. Either way we will send it to the respective manufactures to sign off and approve it will work for the equipment they are wanting, ensuring a compatible excellent combination of chassis and equipment. The chassis can be new or used but will have to meet certain manufacture requirements and approvals. We have manufactures in Illinois, Florida, and California. Typically if a new chassis is ordered freight is included by the selling chassis dealer to the factory.
9. We do accept parts return. Most cases if it is a stocking part there is a 0-15% restocking fee , case by case basis. Special order parts are 25% plus freight return fee.
10. We market the contract thru local trade shows, in person sales calls, phone calls and email. Advertising is done thru on hold phone messages, printed signs ect. Most cities in Oklahoma are aware of the contracts and will ask if they are interested in purchasing equipment if they can buy it thru the state contract.



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To whom it may concern:

Any piece of equipment purchased from J&R Equipment llc/ J&R Environmental truck sales includes unlimited training for operators and technicians included with the purchase of a unit. We have after the sale support on service and parts in Oklahoma City or we can do field service work at your location for an hourly rate of \$115.00.

We also offer several different equipment options in CNG/ alternative fuel. Please call if you are interested and we can talk to you about our different offerings.

We also sell, rent or lease equipment with buy back opportunities. We can structure the purchase to meet the customer's needs.

We offer extended warranties and equipment purchases at a discount off of list price.

Thanks for the opportunity



Rodney Womack

405-760-8111



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EQUIPMENT LLC**

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General information/ Website ect.

Please got to our website [www.jandrequipment.com](http://www.jandrequipment.com) to view all of the product available on state contract.

CNG can be used on many of the units we offer, call to let us talk to you about how to go green. In addition we offer other ecofriendly options on our equipment.

We also offer rentals , lease purchase , new , used and guaranteed buy back options.

Units can be mounted on customer supplied chassis, new or used pending the chassis specs being approved by the respective manufacture.

We will assist in helping find the correct chassis for your application and can add it to our state contract quote or get you in contact with the selling dealer for the chassis of your choice.

Thanks

Rodney Womack



Ochoo Manufacturing Corporation

## H400 - XHD WATER MASTER™ TANKERS



400 G.P.M. GRAVITY BAR



FRONT SPRAY HEADS



REAR SPRAY HEADS



OMCO uses a Gorman Rupp 4x4 (850 G.P.M.) Self priming pump with up to 150 P.S.I. Performance. The direct mounted Bent Axis Hydrostatic motor to water pump (no coupling required).

XHD  
3 POINT  
SUSPENSION



WALLA WALLA COUNTY ROAD DEPARTMENT  
3,500 GALLON HYDROSTATIC SYSTEM  
3,500 GALLON CONTRACTOR STYLE



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## HYDROSTATIC POWERED TOP OF THE LINE TANKERS

"AN INVESTMENT IN QUALITY AND UNEQUALED PERFORMANCE".

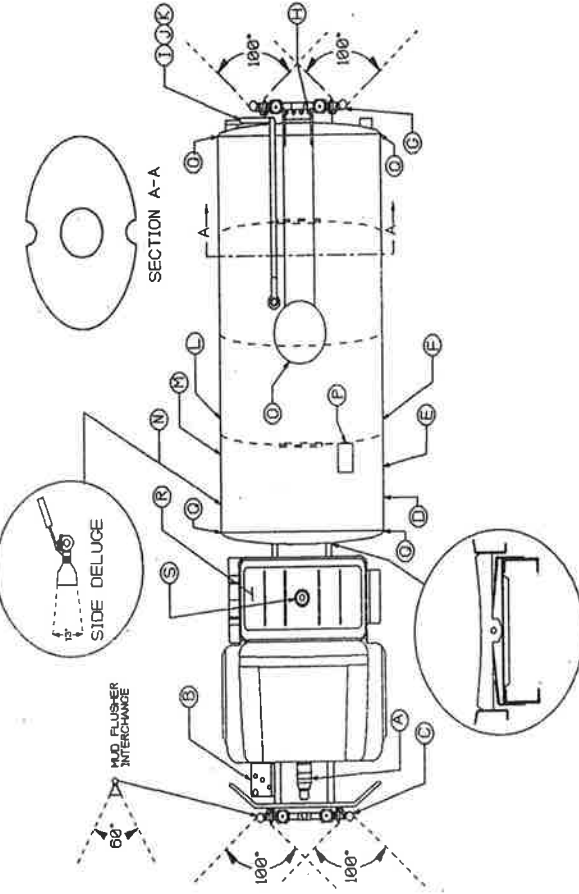
- N) OPTIONAL RIGHT SIDE DELUGE LOCATION  
 O) 30" TOP FILL HOLE (20" OPTIONAL HATCH)  
 P) REMOTE CONTROLLED 500 G.P.M. MONITOR OR REAR DECK MOUNTED 750 G.P.M. MANUAL MONITOR (OPTIONAL)  
 Q) STANDARD XHD SUSPENSION WORK LIGHT LOCATION (OPTIONAL ON REGULAR SUSPENSION)  
 R) INSIDE OPERATORS CONTROL CONSOLE  
 S) ROTARY BEACON (OPTIONAL AT TRUCK REAR)
- G) REAR SPRAY MANIFOLD (OPTIONAL EQUIPMENT: 6" QUICK DUMP, 2-1/2" FIRE DISCHARGE PORT)  
 H) STANDARD REAR LADDER  
 I) HYDRANT FILL (OPTIONAL)  
 J) STANDARD 6" GRAVITY BAR  
 K) REAR BUMPER ASSEMBLY (OPTIONAL)  
 L) STANDARD HOSE REEL (OPTIONAL PUMP LOCATION)
- A) HYDROSTATIC TRANSMISSION  
 B) HYDRAULIC RESERVOIR  
 C) FRONT SPRAY MANIFOLD (OPTIONAL FRONT MUD FLUSHER INTERCHANGE)  
 D) LEFT SIDE DELUGE OPTIONS  
 E) STANDARD WATER PUMP LOCATION (OPTIONAL LOCATION FOR HOSE REEL)  
 F) SUCTION HOSE STORAGE

## DON'T WASTE YOUR WATER!

Try the tankers that apply water where you want it, at the exact pressures and quantity you desire!

OMCO H400-XHD TANKERS are designed and built to the most rigid specifications in the industry, and yet they are the simplest equipment to operate. Here's Why!

- 1) The 3 point rough service suspension allows the tank to remain stable during twisting of truck the frame with absolutely NO stress on tank. OMCO tanks are an elliptical design with a 5" dish on heads and 3 baffles, keeping moving water in a curvature motion making a much safer operation.
- 2) Danfoss series 90 closed loop hydrostatic live power to water pump. Quadrant throttle from 0 to 150 P.S.I. water pressure for full performance at 1,000 engine R.P.M!
- 3) High performance Gorman Rupp 4"x 4" self priming, self loading 850 G.P.M. water pump is standard.
- 4) Front and rear spray heads, gravity bar, side head with remote 90° vertical adjustment, self loading rubber draft hose (4" x 20') with cam locks & strainer basket, city legal hydrant fill group.
- 5) Mud flusher adapter for front heads.



End View of XHD 3-PT  
Rocker Assembly

## WHY BURN THE BITS ON YOUR GRADER KEEPING UNWANTED MUD AND DEBRIS OFF YOUR PAVED ROADS?

OMCO H400 Tankers are available with simple to use mud flusher nozzles that interchange with the front spray heads. This design allows you to attack mud and other debris from a higher point than traditional street flusher nozzles. A sharper attack angle of the high pressure (100 P.S.I. and more) water can keep your project areas clean.

Side mounted deluge water heads are designed with a narrower pattern, allowing water to be directionally applied to areas up to 100 ft. away, and will perform at 400 G.P.M. with pressures to 100 P.S.I. An exclusive OMCO

## AVAILABLE SIZES AND SHELL STEEL

XHD series tanks are available in 3,500 gal., 3,800 gal., 4,000 gal., and 4,500 gal., capacity. All tanks are available with optional T-304



Hydrostatic driven 2,200 gallon stainless steel flusher with OMCO deicer with raven controls, monitor, gravity bar, rear spray heads, hose reel and quick change suction hose. It also has a sidewalk boom / snow plow.



Hydrostatic powered OMCO 2,500 gallon stainless steel tank flusher / deicer with Robo Flush™. OMCO deicer system with Force America control system

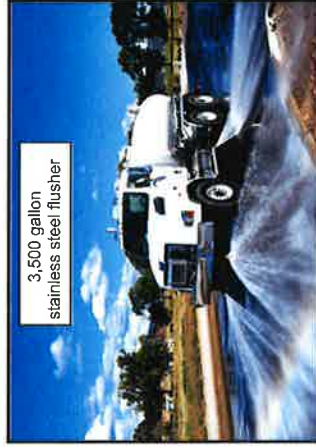


Hydrostatic powered OMCO 4,000 gallon stainless steel tank flusher / deicer. 750 gpm @ 100 psi water pump, stainless steel plumbing, top of tank monitor, deluge heads, front hose reel, right side hose reel, gravity bar, fire discharge, self-loading capabilities, hydrant fill with 6" air gap, lower and y-strainer.



## HF 400 SERIES WATERMASTER™

### HIGH PERFORMANCE TANKERS WITH STREET FLUSHER CAPABILITIES



3,500 gallon stainless steel flusher



Robo Flush™ in operation

### HYDROSTATICALLY POWERED



4,000 gal stainless steel flusher with monitors



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E - Mail • [omco@resviewcable.com](mailto:omco@resviewcable.com) • or visit our website • [www.omco-mfg.com](http://www.omco-mfg.com)

## LOOK AT THE CHOICE'S YOU NOW HAVE IN SELECTING YOUR NEXT TANKER.

- A) HYDROSTATIC TRANSMISSION
- B) ROBO - FLUSH™ (OPTION)
- C) FRONT FLUSHER ASSEMBLY
- D) LEFT SIDE DELUGE (OPTIONAL)
- E) WATER PUMP
- F) MIDSHIP FLUSHER
- G) SUCTION HOSE STORAGE (OPTIONAL)

- H) HOSE REEL (OPTIONAL)
- I) RODDER REEL (OPTIONAL)
- J) STANDARD REAR LADDER
- K) ANTI - ICER SYSTEM (OPTIONAL)
- L) REAR BUMPER ASSEMBLY
- M) 4" GRAVITY BAR (OPTIONAL)
- N) HYDRANT FILL ASSEMBLY

- O) TOOL COMPARTMENT (OPTIONAL)
- P) HOSE REEL (OPTIONAL)
- Q) MIDSHIP FLUSHER
- R) RIGHT SIDE DELUGE (OPTIONAL)
- S) OPERATORS CONSOLE
- T) HYDRAULIC RESERVOIR
- U) FRONT SWEEP ASSEMBLY (OPTIONAL)

### STEP UP TO OMCO TECHNOLOGY AND DEMAND A REAL TOOL!

#### Unequaled Controllability in Flushing Direction and Water Pressures.

Mild Steel or T-304 Stainless Steel. Elliptical tank design with 5" domed heads and baffles. These features insure curvature movement of water with less than full loads, making your tanker much safer while traveling. Truck tanks range from 2,000 gal. to 3,800 gal. Trailers are 6,000 gal.

#### Danfoss Series 90

Closed loop hydrostatic transmission powered 850 G.P.M. centrifugal water pump with full performance attainable at no more than 900 engine R.P.M.

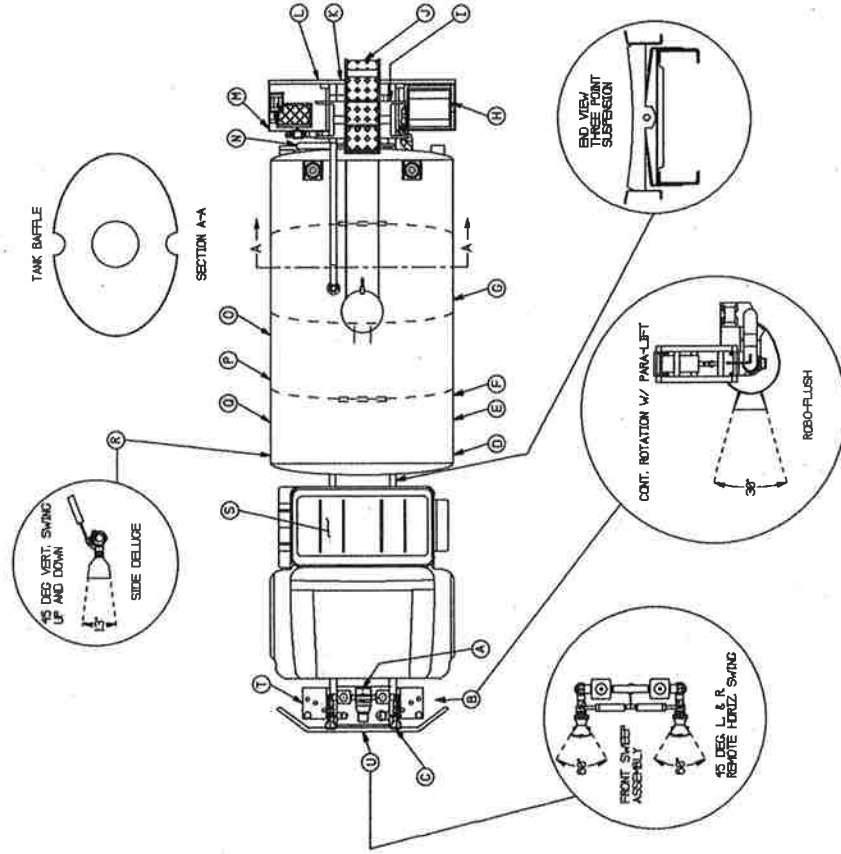
#### Choice of Computer or Pressure

##### Override (P.O.R) control.

Electronic controlled system allows a pre-selection of flusher pressures using the hydrostatic quadrant throttle. Water pressure will remain stable at 900 engine R.P.M. and above with any combination of heads turned on or off, regardless of road speed.

Hydraulic P.O.R. over speed control allowing stable "full performance" pressure from 900 engine R.P.M. though governed engine speed

**Water pump performance up to 600 G.P.M. @ 100 P.S.I.**



#### Front Flusher Nozzles

Can be equipped with individual horizontal swing feature controls. The operator can move either nozzle 45° left or right from straight ahead position.

#### OMCO's Exclusive ROBO-FLUSH™ with PARA-LIFT™

Front corner mounted, narrow pattern, high pressure nozzle can be rotated remotely on a continuous horizontal plane. It can also be adjusted in height from 7" to 17" above ground level. This feature allows flushing of bridge curbs with different heights, cul-de-sacs, under parked vehicles, etc. The majority of your flushing requirements can be achieved with the ROBO-FLUSH™ alone, performing more lane mile work with less water usage. **TRY IT YOU WILL LIKE IT!**

#### OMCO's Side Mounted Deluge Water Heads

Equipped with narrow pattern nozzles and when combined with the high pressure performance standard on our systems, you will find it is easy to remove winter sanding debris, etc. from your bridge decks, under guard rails, and all roadside areas. These heads are designed with a vertical remote movement of 45° below horizon to 45° above horizon and will hold in any position between.

XHD three point suspension option will extend your tank warranty to 5 years.

The HT-400 series spec. sheet is a serious spec. insuring excellent performance and controllability. Ask for your copy today.



Hydrostatic drive 2,200 gallon stainless steel flusher with sidewalk flusher, OMCO deicer with raven controls, monitor, gravity bar, rear spray heads, hose reel and quick change suction hose



Hydrostatic powered OMCO 2,500 gallon stainless steel tank flusher / deicer with Robo Flush™ OMCO deicer system with Force America control system



Hydrostatic powered OMCO 6,000 gallon stainless steel tank, 40' semi trailer. Self priming water pump, flusher, deluge, spray heads, hose reel, gravity bar, fire discharge and deicer capabilities. Just to name a few.



## HF 400 SERIES WATERMASTER™

### HIGH PERFORMANCE TANKERS WITH STREET FLUSHER CAPABILITIES



3,500 gallon stainless steel flusher



Robo Flush™ in operation

### HYDROSTATICALLY POWERED



3,300 gallon stainless steel tanker with John Deere powered water pump



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## LOOK AT THE CHOICE'S YOU NOW HAVE IN SELECTING YOUR NEXT TANKER.

- A) HYDROSTATIC TRANSMISSION
- B) ROBO - FLUSH™ (OPTION)
- C) FRONT FLUSHER ASSEMBLY
- D) LEFT SIDE DELUGE (OPTIONAL)
- E) WATER PUMP
- F) MIDSHIP FLUSHER
- G) SUCTION HOSE STORAGE (OPTIONAL)

- H) HOSE REEL (OPTIONAL)
- I) RODDER REEL (OPTIONAL)
- J) STANDARD REAR LADDER
- K) ANTI-ICER SYSTEM (OPTIONAL)
- L) REAR BUMPER ASSEMBLY
- M) 4" GRAVITY BAR (OPTIONAL)
- N) HYDRANT FILL ASSEMBLY

- O) TOOL COMPARTMENT (OPTIONAL)
- P) HOSE REEL (OPTIONAL)
- Q) MIDSHIP FLUSHER
- R) RIGHT SIDE DELUGE (OPTIONAL)
- S) OPERATORS CONSOLE
- T) HYDRAULIC RESERVOIR
- U) FRONT SWEEP ASSEMBLY (OPTIONAL)

### STEP UP TO OMCO TECHNOLOGY AND DEMAND A REAL TOOL!

#### Unequaled Controllability in Flushing Direction and Water Pressures.

Mild Steel or T-304 Stainless Steel. Elliptical tank design with 5" domed heads and baffles. These features insure curvature movement of water with less than full loads, making your tanker much safer while traveling. Truck tanks range from 2,000 gal. to 3,800 gal. Trailers are 6,000 gal.

#### Danfoss Series 90

Closed loop hydrostatic transmission powered 850 G.P.M. centrifugal water pump with full performance attainable at no more than 900 engine R.P.M.

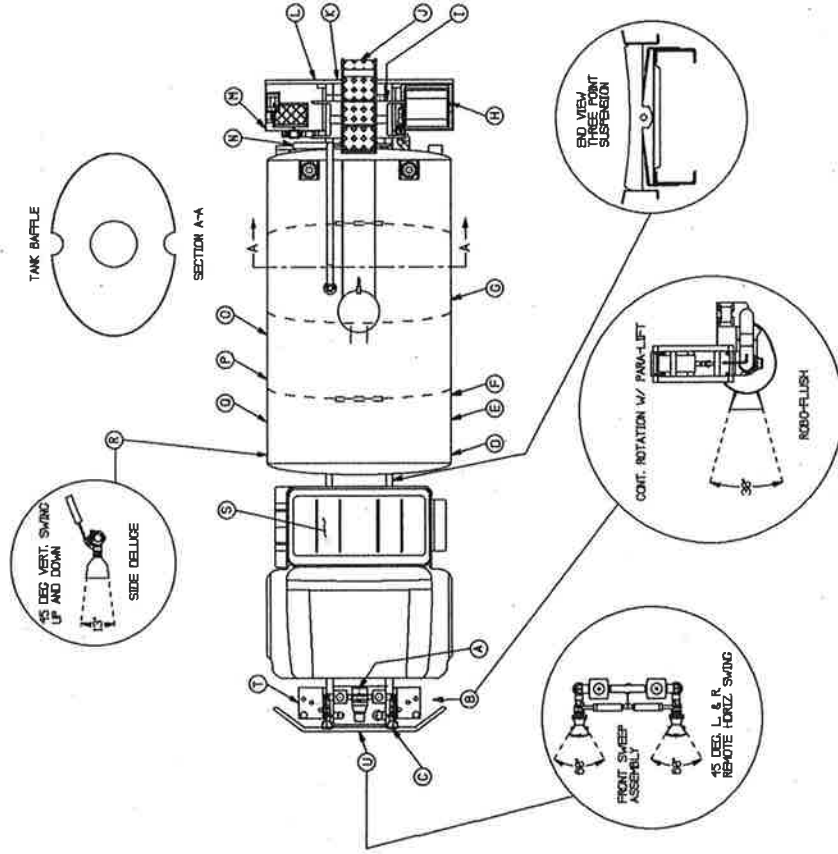
#### Choice of Computer or Pressure

##### Override (P.O.R) control.

Electronic controlled system allows a pre-selection of flusher pressures using the hydrostatic quadrant throttle. Water pressure will remain stable at 900 engine R.P.M. and above with any combination of heads turned on or off, regardless of road speed.

Hydraulic P.O.R. over speed control allowing stable "full performance" pressure from 900 engine R.P.M. through governed engine speed

**Water pump performance up to 600 G.P.M. @ 100 P.S.I.**



#### Front Flusher Nozzles

Can be equipped with individual horizontal swing feature controls. The operator can move either nozzle 45° left or right from straight ahead position.

#### OMCO's Exclusive ROBO-FLUSH™ with PARA-LIFT™

Front corner mounted, narrow pattern, high pressure nozzle can be rotated remotely on a continuous horizontal plane. It can also be adjusted in height from 7" to 17" above ground level. This feature allows flushing of bridge curbs with different heights, cul-de-sacs, under parked vehicles, etc. The majority of your flushing requirements can be achieved with the ROBO-FLUSH™ alone, performing more lane mile work with less water usage. **TRY IT YOU WILL LIKE IT!**

#### OMCO's Side Mounted Deluge Water Heads

Equipped with narrow pattern nozzles and when combined with the high pressure performance standard on our systems, you will find it is easy to remove winter sanding debris, etc. from your bridge decks, under guard rails, and all roadside areas. These heads are designed with a vertical remote movement of 45° below horizon to 45° above horizon and will hold in any position between.

XHD three point suspension option will extend your tank warranty to 5 years.

The HF400 series spec. sheet is a serious spec. insuring excellent performance and controllability. Ask for your copy today.



Ochoco Manufacturing Corporation

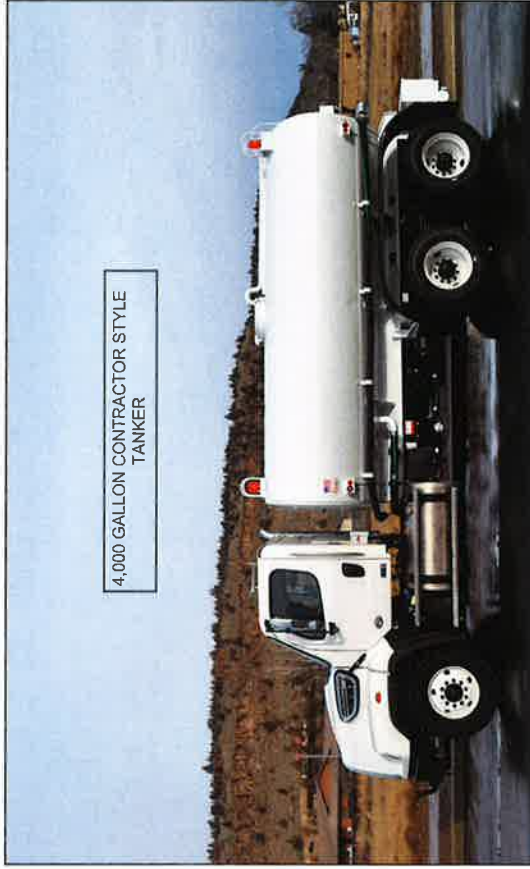
# P300 XHD WATER MASTER™



OMCO uses a Gorman Rupp 3x3 (350 G.P.M.) Self priming pump with up to 100 P.S.I. Performance.  
This pump is powered by PTO off transmission.

XHD  
3 POINT  
SUSPENSION

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## POWER TAKE OFF (PTO) TOP OF THE LINE TANKERS

"AN INVESTMENT IN QUALITY AND UNEQUALED PERFORMANCE".



2,200 Gallon PTO powered tanker



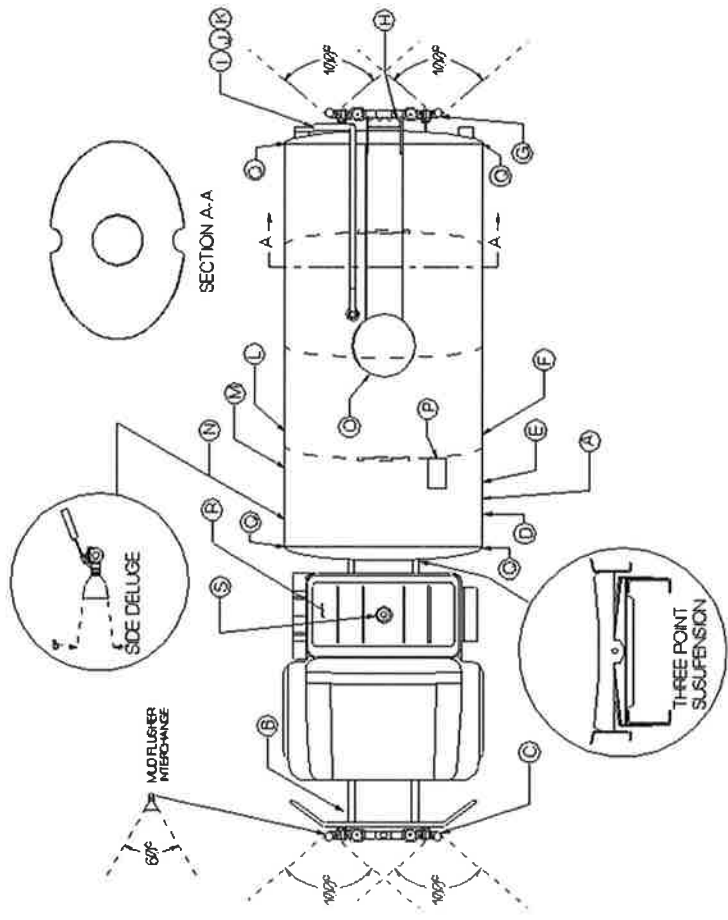
- N) OPTIONAL RIGHT SIDE DELUGE LOCATION
- O) 30" TOP FILL HOLE (20" OPTIONAL HATCH)
- P) REMOTE CONTROLLED 500 G.P.M. MONITOR OR REAR DECK MOUNTED 750 G.P.M. MANUAL MONITOR (OPTIONAL)
- Q) STANDARD XHD SUSPENSION WORK LIGHT LOCATION (OPTIONAL ON REGULAR SUSPENSION)
- R) INSIDE OPERATORS CONTROL CONSOLE
- S) ROTARY BEACON (OPTIONAL AT TRUCK REAR)
- G) REAR SPRAY MANIFOLD (OPTIONAL EQUIPMENT: 6" QUICK DUMP, 2-1/2" FIRE DISCHARGE PORT)
- H) STANDARD REAR LADDER
- I) HYDRANT FILL (OPTIONAL)
- J) STANDARD 6" GRAVITY BAR
- K) REAR BUMPER ASSEMBLY (OPTIONAL)
- L) STANDARD HOSE REEL (OPTIONAL PUMP LOCATION)
- M) OPTIONAL TOOL COMPARTMENT LOCATION
- A) PTO POWERED WATER PUMP
- B) FRONT BUMPER TURRET(OPTIONAL)
- C) FRONT SPRAY MANIFOLD (OPTIONAL FRONT MUD FLUSHER INTERCHANGE)
- D) LEFT SIDE DELUGE OPTIONS
- E) STANDARD WATER PUMP LOCATION (OPTIONAL LOCATION FOR HOSE REEL)
- F) SUCTION HOSE STORAGE

### DON'T WASTE YOUR WATER!

Try the tankers that apply water where you want it, at the exact pressures and quantity you desire!

OMCO P300 XHD TANKERS are designed and built to the most rigid specifications in the industry, and yet they are the simplest equipment to operate. Here's Why!

- 1) The 3 point rough service suspension allows the tank to remain stable during twisting of truck the frame with absolutely NO stress on tank. OMCO tanks are an elliptical design with a 5" dish on heads and 3 baffles, keeping moving water in a curvature motion making a much safer operation.
- 2) It will be powered by a Chelsea or Muncie air shift, clutch model transmission mounted P.T.O. and geared for compatible engine/pump speeds during pump and roll operations.
- 3) High performance Gorman Rupp 3"x 3" self priming, self loading 350 G.P.M. water pump is standard. The pump is capable of 100 P.S.I. water pressure
- 4) Front and rear spray heads, gravity bar, side head with remote 90° vertical adjustment, self loading rubber draft hose (3" x 20') with cam locks & strainer basket, city legal hydrant fill group.
- 5) Mud flusher adapter for front heads.
- 6) Many other features both standard and optional. (Spec. sheets available on request).



End View of XHD 3-PT  
Rocker Assembly

### WHY BURN THE BITS ON YOUR GRADER KEEPING UNWANTED MUD AND DEBRIS OFF YOUR PAVED ROADS?

OMCO P300 Tankers are available with simple to use mud flusher nozzles that interchange with the front spray heads. This design allows you to attack mud and other debris from a higher point than traditional street flusher nozzles. A sharper attack angle of the high pressure (100 P.S.I. and more) water can keep your project areas clean.

Side mounted deluge water heads are designed with a narrower pattern, allowing water to be directionally applied to areas up to 100 ft. away, and will perform at 300 G.P.M. with pressures to 100 P.S.I. An exclusive OMCO feature is the cab controlled remote vertical movement of the side heads (45° above horizon to 45° below horizon).

### AVAILABLE SIZES AND SHELL STEEL

XHD series tanks are available in 3,500 gal., 3,800 gal., 4,000 gal., and 4,500 gal. capacity. All tanks are available with optional T-304 stainless steel shell material.

## **OMCO ANTI-ICER SYSTEM**

### **POWER METHOD FOR ANTI-ICER SYSTEM:**

This system is powered with the EHF or electronic controlled Danfoss series 90 pump/transmission. A second or "B" system power mode will power the Anti-icer motor which is equipped with Danfoss Plus 1 computer program and governed by a pressure transducer arrangement which will control constant pressure as set, and over speed control. Full performance will be achieved at 800 engine R.P.M.. The hydrostatic throttle on the console will be able to pre-select a performance setting, and that performance will remain stable from 800 engine R.P.M. through engine governed speed.

### **PUMP AND VALVING:**

A Hypro HM Series cast iron 2" X 1 1/2" centrifugal chemical pump will be used. A 2" stainless steel flow control valve and a RFM 100 flow meter shall be used to meter fluid at pre-selected rates from the cab console. Boom valving will be 12 volt poly plunger style valves, sized to achieve optimal performance in each individual system where remote control of system is required. The 1/4 turn ball valves required will be heavy duty poly style on suction side and stainless steel on pressure side. The remote operated valves will be positioned and controlled so as to allow recirculation of product when the recirculation air valve (controlled from inside the cab) and the stainless steel 1/4 turn ball valve are open. Discharge booms are to be in the "off" position to recirculate the product.

A 2 1/2" bottom load plumbing arrangement will be installed to prevent aeration or foaming of product while loading. A 2 1/2" 1/4 turn heavy duty ball valve will be installed at inlet with a removable cap.

### **SPRAY BOOMS, NOZZLES, AND RECIRCULATION BAR:**

The tank recirculation bar will be constructed from 1 1/4" schedule 40 stainless steel and inserted into rear tank head approximately 20" right of center line and 8" up from bottom. The bar pipe will extend forward to include the front section of baffled tank, and be equipped with drill holes at strategic locations on an 8:00 o'clock position.

### **The spray booms will be positioned as follows:**

The main boom will be constructed from 1 1/4" stainless steel pipe and positioned under rear deck. The left and right booms will be extensions of main boom arrangement and will be positioned at each end of rear deck. The 3 boom sections will receive and apply product independently, and each boom will be equipped with ten (10) each T-jet straight stream nozzles with 3 GPM orifices. The left and right boom nozzles shall be positioned to evenly cover 12 foot lanes.

### **SPEED CONTROL SYSTEM AND CAPACITIES:**

The controller will be a Ravens # DCS410 transmission speed sensor. Other controllers are available (Epoke, Force America, Dickey John, etc.). With correct nozzle size the system will be capable of 1 lane application at 60 gallons per lane mile going 35 M.P.H. or 3 lane application at 60 gallons per lane mile going 35 M.P.H.



**SPECIFICATIONS  
OMCO HF400 & EHF400 SERIES  
STREET FLUSHER SYSTEMS**

**(OPTIONS) TANK SIZE AND SHAPE:**

- HF422** 2,200 U.S. gallon capacity, elliptical shape, **Low Profile Design**, (54" minor axis x 85" major axis) x 144" long. Heads will be dished & flanged (5" minimum dish), 2 baffles will be dished (5" minimum dish).
- HF425** 2,500 gallon capacity (as above) x 168" long, 3 baffles.
- HF430** 3,000 gallon capacity (as above) x 192" long, 3 baffles.
- HF435** 3,500 U.S. gallon capacity, elliptical shape, **Standard Profile Design**, (64" minor axis x 95" major axis) x 168" long, Heads will be dished & flanged (5" minimum dish), 3 baffles will be dished (5" minimum dish).
- HF438** 3,800 gallon capacity (as above) x 180" long, 3 baffles.
- HF440** 4,000 gallon capacity (as above) x 192" long, 3 baffles.

**MATERIAL:**

The bottom 1/3 of tank skin will be constructed from 3/16" mild steel, the top 2/3 of the tank skin will be constructed from 10 gauge mild steel. The heads will be 3/16" dished and flanged (5" min. dish). Baffles shall be constructed from 10 gauge mild steel and be dished (5" min. dish).

**(OPTION) MATERIAL STAINLESS STEEL T-304:**

The bottom 1/3 of tank skin will be constructed from 3/16" T-304 stainless steel, the top 2/3 of the tank skin will be constructed from 10 gauge T-304 stainless steel. The heads will be 3/16" T-304 dished & flanged (5" minimum dish). Baffles shall be constructed from 10 gauge T-304 stainless steel & be dished (5" minimum dish.)

**TOP MANHOLE:**

There shall be a 20" over center locking circular hatch cover. The manhole assembly will be welded into tank center top.

**(OPTION) TOP MANHOLE:**

When the stainless steel tank option is used, a stainless steel 20" over center locking hatch cover will be used.



## **SPECIFICATIONS OMCO HF400 & EHF400 SERIES STREET FLUSHER SYSTEMS**

### **CONSTRUCTION PROCEDURE:**

The shell skin shall be unspliced sections for the entire length of tank, and be electrically welded longitudinally. The entire tank (heads, baffles, shell sections) will be 100% double welded. The baffles will be installed with 24" lined crawl holes, top and bottom 6" X 12" lined flow holes. Two (2) or three (3) baffles as required in tank size spec., will be installed. The tank will have a rear ladder and top cat walk with rails and grip strut rungs.

### **(OPTION) CONSTRUCTION PROCEDURE:**

When stainless tank option is used, there will be 10 gauge T-304 stainless steel strips welded between tank vessel and all mild steel weldments.

### **SUB-FRAME:**

The skid mount rails shall be constructed from 3/16" steel and installed with six (6) cross members supported to tank bottom and side rails. 1" x 2 3/4" Rubber sills shall be installed under skid mount rails in inverted channels.

### **(OPTION) SUB-FRAME-STAINLESS STEEL (T-304 2B TYPE):**

With the stainless steel tank option, the skid mount rails shall be constructed from 3/16" stainless steel T304 2B and installed with six (6) cross members supported to tank bottom and side rails. 1" x 2 3/4" Rubber sills shall be installed under skid mount rails in inverted channels.

### **TANK MOUNTS:**

Tank mounts shall be male-female with coil springs (two (2) per mount), three (3) mounts per side bolted to truck and tank frame. Coil springs to be constructed from 5/16" material using 5/8" bolts and self-locking nuts. Two (2) mounts per side on the HF422 size.

### **OMCO FIBERGLASS FENDERS:**

The OMCO fenders are to be constructed of common resin and fiberglass using rope mat (woven roving fiberglass mat) rather than cloth material for stronger construction. The fenders will be pre-painted black in the mold with gel coat. The finished fenders shall be 5/16" in thickness. The full formed fiberglass, rubber mounted fenders will cover the entire dual drive tire area and have mud flaps. The fenders shall be attached to three (3) each T-304 stainless steel fender mounting brackets. The T-304 stainless steel mounting brackets shall be attached to the tank frame. The fenders shall be painted jet black or color of customer choice using Sherwin Williams Genesis acrylic urethane with hardener.



## **SPECIFICATIONS OMCO HF400 & EHF400 SERIES STREET FLUSHER SYSTEMS**

### **(OPTION) SKIRTED SIDES AND FENDER WELLS (AVAILABLE ON LOW PROFILE DESIGN):**

The tank will be fully side skirted to axle center line and the wheel well cut outs will allow enough room to install tire chains if needed. A rear compartment will be incorporated for placement of miscellaneous tools. The wheel wells will be equipped with anti-spray flashing and legal mud flaps will be installed. A 6" walkway along both sides of tank at or near center line will be constructed on top of skirted side sections. The access ladder/steps to top center of tank will be incorporated into left side skirting. The skirting will be constructed from 12 gauge mild steel.

### **WATER PUMP POWER SYSTEM HF400 SERIES:**

The water pump to be driven by a piston-type closed loop, hydrostatic transmission with loop cooling filtration, and adjustable pressure control. The hydro-static system will be sized for continuous duty, long life and compatible with the torque values of the chassis engine and optimum performance speeds required of the water pump.

The Danfoss hydrostatic pump transmission will be servo controlled, variable displacement and driven by a drive shaft connected to the front of engine crankshaft. The pump/transmission displacement will be controlled from the cab console, using an electronic quadrant throttle. The hydro-static motor will be fixed displacement, bent axis design, and flange mounted directly to the water pump.

The motor sizing will be as necessary to provide correct R.P.M. performance of the individual water pump. The condition of the oil in the hydro-static loop will be maintained by a 30 G.P.M., 10 micron full flow spin type filter and a oil cooler rated at 27,000 B.T.U./HR. under acceptable operating conditions. The externally adjustable automatic pressure control (P.O.R.) over-rides the electronic control and maintains constant full performance water pressures when engine speeds are above 900 R.P.M. The purpose of this feature is to insure full operation performance at 900 R.P.M., and to protect against pressure surges and motor over speeding at engine speeds above 900 R.P.M. The oil reservoir will be vented in such a manner as to prevent ingestion of water spray. The high pressure hydraulic hoses will be 12 XT four (4) wire braid with heavy cover. All other hoses including the cooling circuit will be SAE rated medium pressure wire braid hose with heavy cover. All fittings will be crimp style.



## **SPECIFICATIONS OMCO HF400 & EHF400 SERIES STREET FLUSHER SYSTEMS**

### **OPTION: WATER PUMP POWER SYSTEM EHF400 SERIES:**

The water pump to be driven by a piston-type closed loop, hydrostatic transmission with loop cooling filtration, and adjustable pressure control. The hydro-static system will be sized for continuous duty, long life and compatible with the torque values of the chassis engine and optimum performance speeds required of the water pump. The hydrostatic pump transmission will be servo controlled, variable displacement Danfoss or equivalent, driven by a drive shaft connected to the front of engine crankshaft. The servo control will be electrically operated (E.D.C.) with water pressure transducer and electronic quadrant throttle. The water pressures will be set with the throttle to a predetermined pressure setting of 0 to 100 P.S.I., and will be maintained regardless of how many flusher heads are operating. Full performance of 600 G.P.M. will be attained at 900 engine R.P.M. and will remain through the governed engine speeds.

The electric automatic control system will have a disable switch, so that higher pressures can be obtained if desired. The hydro-static motor will be fixed displacement bent axis, & coupled directly to the water pump. The motor sizing will be as necessary to provide correct R.P.M. performance required of the water pump. The condition of the oil in the Hydro-static loop will be maintained by a 30 G.P.M., 10 micron full flow spin on type filter and an oil cooler rated at 27,000 B.T.U./HR. under acceptable operating conditions. The oil reservoir (10 gallon cap.) will be vented in such a manner as to prevent ingestion of water spray. The high pressure hydraulic hoses will be 12 X T four (4) wire braid with heavy cover. All other hoses including the cooling circuit will be SAE rated medium pressure wire braid hose with heavy cover. All fittings will be crimp style.

### **WATER PUMP:**

The pump will be a Berkeley 4" X 3" B3JRMBM centrifugal, cast iron pump. 5" tank suction plumbing to the suction orifice of the pump. The pump will have performance capability of 600 G.P.M. at 100 P.S.I..

### **OPTION FOR SELF LOADING CAPABILITY:**

Water Pump: Gorman Rupp #04A3-B 4" x 4" self-priming cast iron centrifugal, cast iron pump. 5" tank suction plumbing to the suction orifice of the pump. The pump will have performance capability of 600 G.P.M. at 100 P.S.I.. The water pump will be equipped with three (3) 4" hand operated butterfly valves. These valves will be located in a position which will allow self-loading of water tank. The "source" suction orifice will be 4" camlock connection. A section (4" x 20' long) of rubber suction hose will be furnished with strainer and camlock connection, as well as storage "J" hooks and lockable hasp.

**OPTIONAL:** Suction hose/s will be 3" diameter for easier handling.



## **SPECIFICATIONS OMCO HF400 & EHF400 SERIES STREET FLUSHER SYSTEMS**

### **FLUSHER SYSTEM:**

Flusher control valves will be 2" Cla-valve (model KH7100). All plumbing to flusher heads will be 3" on manifold and 2" to individual heads. The heads will be located below front bumper on both left and right side, in approximate alignment with the chassis frame rails. The mid ship heads will be located under or slightly behind cab, operated toward left and right sides. The flusher heads will be OMCO bronze three (3) piece fully adjustable with #82 slots (3/32"). #121 slots (1/8") are optional for more water flow. The valve control will be air/spring style and be operated (on-off) from cab console.

### **(OPTION):**

Front flusher heads to rotate independently in a horizontal arc 45 degrees either way from center, electric over air controlled from cab console.

### **(OPTION): FIRE DEPARTMENT TENDER VALVE:**

A 2 1/2" brass male N.S.T. discharge fitting will be installed for the purpose of transfer of water to another tanker (such as your local fire department pumper) at up to 850 G.P.M.

### **CONTROL CONSOLE:**

The control console shall be constructed and mounted between seats inside cab, and be painted with Rustoleum black hammerite paint. The console will have a water pressure gauge, and all necessary electric over air valve switches and hydro-static throttle controls.

### **(OPTION:) TANK FULL/TANK EMPTY**

High level ("Tank Full") float operated legend indicator light will be positioned at fill station. Low level ("Tank Empty") float operated legend indicator light will be positioned on cab console. Both floats will be Stainless Steel.

### **LIGHTING:**

All running lights will be L.E.D. style rubber mounted lamps. Wiring shall be enclosed in conduit. reflectors will be installed, and the system will comply with D.O.T. #108.

### **BEACON:**

One double flash LED beacon on top of tank, amber in color.

### **(OPTION) BEACON:**

A second LED beacon of the same type on top of tank, amber in color.



## SPECIFICATIONS OMCO HF400 & EHF400 SERIES STREET FLUSHER SYSTEMS

### **ENTRIES AND PLUMBING:**

All plumbing entries shall be constructed from schedule 40 weld fittings and will be fitted with welded collars to distribute the flex and prevent cracking. All plumbing and piping will be schedule 40 black pipe, using weld ells, tees, fittings, etc., rather than threaded pipe or fittings. The plumbing shall be assembled using rubber gasket couplers at necessary locations and in such a manner that the assembly may be removed as needed from the chassis.

### **PLUMBING (OPTIONS):**

All water plumbing will be constructed of T-304 stainless steel.

### **REAR INLET FOR HYDRANT FILLING:**

A hydrant fill station will be constructed at tank rear curbside. The plumbing will be equipped with visible 6" air gap at or near top tank center and fill hole will be arranged so that debris (tree leaves, etc.) cannot enter the tank. The entry station will be equipped with 2 1/2" "Y" strainer with clean out basket. Plumbing assembly will be bolted to tank exterior, and be removable.

### **HOSE REEL:**

A live hose reel with accommodations for 1" x 125' hard rubber hose, mounted right side mid-ship, or on rear of tank for hand flushing. Water flow to hose to be air-operated with on/off valve located on hose reel. Reel to be Reelcraft (or equivalent), with electric rewind and crank rewind (back-up). 2/3 HP motor required. A 200 P.S.I. hose and a fog nozzle will be installed. **NOTE: When the optional Gorman Rupp self-priming water pump is used, the 1 1/2" x 70' hose is used.**

### **(OPTION) SIDE MOUNTED WATER HEAD:**

One 2" side mounted water head assembly will be placed on the right side, mid-ship at frame height. The nozzle will be constructed so as to discharge water in an approximate 20 degree fan. The purpose of the narrow arc is to move heavy debris and material, that the ordinary flusher nozzles cannot move properly. The discharge will be up to 400 G.P.M. at 100 P.S.I. and will discharge at distances of up to 75 feet. The unit will be capable of vertical adjustment of 45 degree above horizon to 45 degree below horizon, remotely from cab console.



## **SPECIFICATIONS OMCO HF400 & EHF400 SERIES STREET FLUSHER SYSTEMS**

### **(OPTION) "ROBO-FLUSH" HEAD ASSEMBLY:**

The unit will be equipped with one (1) 2" continuous rotating flusher head mounted under left or right corner of front bumper. The nozzle will be constructed of steel and have a discharge arc of approximately 15 degrees. This system will be directly controlled by a joy stick arrangement located on the console inside cab, and be powered by the hydraulic pump. The rotator steering roller chain will be stainless steel and shall be size 50. The rotator assembly will be equipped with a parallelogram lift frame with stainless steel pins and bushings. The unit will be remotely adjusted for height from 7" above the street level to 17" high.

### **(OPTION) REAR MOUNTED GRAVITY BAR:**

A 4' x 96" gravity bar with clean-out removable ends and equipped with 3/4" threaded rear outlet couplers and 8" centers, and each with its own 90 degree deflector assembly. The control valve will be a 4" butterfly air operated valve and controlled from cab console.

### **(OPTION) REAR MOUNTED POWER BAR:**

A 2" x 96" Power bar pipe arrangement will be installed under rear bumper deck, and have clean out ends. A cab controlled 2" Cla-valve will be used, and 3/8" Fan spray nozzles (10 ea.) will be evenly spaced on bottom of Power Bar.

### **(OPTION) MONITOR CANNON SYSTEM:**

Tank mounted Elkhart Sidewinder electric 500 G.P.M. cab controlled monitor. Sealed circuit 12V DC electric powered. Vertical move from horizon -45° to 90°, horizontal move 180° or 330°. Monitor available with normal or high speed travel. Equipped with straight stream / fog adjustable nozzle. All operations are on console mounted Joy stick controller. This Remote Controlled Monitor is positioned so that is in view of driver (operator) through mirror at all times. This monitor may also be mounted on a fold down frame on front bumper.

### **(OPTION) REAR MOUNTED SPRAY-HEAD SYSTEM FOR DUST CONTROL:**

Two (2) rear mounted 2" spray-heads shall be installed on tank rear. They will be adjustable for quantity, as well as direction, and be controlled (on/off) from cab console.



## **SPECIFICATIONS OMCO HF400 & EHF400 SERIES STREET FLUSHER SYSTEMS**

### **(OPTION) OVERHEAD SPRAY BOOM:**

A 3" manifold will be installed at tank rear, and will be extended to top rear of tank. It will tee into a 2" manifold and go to left and right mounted flusher nozzles. These nozzles will be vertically installed 48" apart. Air operated ball bearing swivels will allow these nozzles to be remotely controlled from cab console and independently moved from straight up position to 90° right angle. The nozzles will be able to stop at any degree wanted within the 90° swing. The nozzles will be OMCO #82.

### **OPTION: TOOL COMPARTMENTS**

Single or double door style (depending on available room). Sweep out design with box pan door/s. Door design with café style or swing up style doors. 24" deep x 24" high x 24" to 60" long (Double doors on compartments longer than 36" long). Stainless steel piano hinge and twist lock S.S. latch with or without keys. Mild steel, aluminum, or stainless steel construction.

### **PAINT:**

Tank will be properly prepared prior to painting. A two (2) part modified polyamide epoxy primer will be applied inside (**NO INSIDE PAINT ON STAINLESS STEEL TANK OPTION**). Sherwin Williams Genesis acrylic urethane with hardener will be applied to outside of tank and components. Black enamel on all plumbing parts at and below frame height.



## SPECIFICATIONS P600 WATER TANKER

### **TANK SIZE AND SHAPE OPTIONS:**

<u>P622</u>	2,200 U.S. gallon capacity, elliptical shape, <b><u>Low Profile Design,</u></b> (54" minor axis x 85" major axis) x 144" long. Heads will be dished & flanged (5" min dish), 2 baffles will be dished (5" min. dish).
<u>P625</u>	2,500 gallon capacity (as above) x 168" long, 3 baffles.
<u>P630</u>	3,000 gallon capacity (as above) x 192" long, 3 baffles.
<u>P635</u>	3,500 gallon capacity elliptical shape, <b><u>Standard Profile Design,</u></b> (64" minor axis x 95" major axis) x 168" long. Heads will be dished & flanged (5" min dish), 3 baffles will be dished (5" min. dish).
<u>P638</u>	3,800 gallon capacity (as above) x 180" long, 3 baffles.
<u>P640</u>	4,000 gallon capacity (as above) x 192" long, 3 baffles.
<u>P645</u>	4,500 gallon capacity (as above) x 216" long, 3 baffles.

### **MATERIAL:**

The bottom 1/3 of tank skin will be constructed from 3/16" mild steel, the top 2/3 of the tank skin will be constructed from 10 gauge mild steel. The heads will be 3/16" dished and flanged (5" min. dish). Baffles shall be constructed from 10 ga. mild steel and be dished (5" min. dish).

### **(OPTION) MATERIAL STAINLESS STEEL T-304L:**

The bottom 1/3 of tank skin will be constructed from 3/16" T-304L stainless steel, the top 2/3 of the tank skin will be constructed from 10 gauge T-304L stainless steel. The heads will be 3/16" T-304L dished & flanged (5" minimum dish). Three (3) baffles shall be constructed from 10 gauge T-304L stainless steel & be dished (5" minimum dish.)

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## **SPECIFICATIONS P600 WATER TANKER**

### **CONSTRUCTION PROCEDURE:**

The shell skin shall be unspliced sections for the entire length of tank, and be electrically welded longitudinally. The entire tank (heads, baffles, shell sections) will be 100% double welded. The baffles will be installed with 24" lined crawl holes, top and bottom 6" x 12" lined flow-holes. Two (2) or three (3) baffles as required in tank size spec., will be installed. Tank will have a rear ladder and top cat walk rails and grip strut rungs.

### **(OPTION) CONSTRUCTION PROCEDURE:**

When stainless tank option is used, there will be 10 gauge T-304L stainless steel strips welded between tank vessel and all mild steel weldments.

### **TOP MANHOLE:**

A recessed 30" open manhole will be installed for "Top Loading" purposes.

### **(OPTION) TOP MANHOLE:**

There shall be a 20" over center locking circular hatch cover. The manhole assembly will be welded into tank center top.

### **(OPTION) TOP MANHOLE:**

When the stainless steel tank option is used, a stainless steel 20" over center locking hatch cover will be used.

### **CONSTRUCTION PROCEDURE:**

The shell skin shall be unspliced sections for the entire length of tank, and be electrically welded longitudinally. The entire tank (heads, baffles, shell sections) will be 100% double welded. The baffles will be installed with 24" lined crawl holes, top and bottom 6" X 12" lined flow holes. Two (2) or three (3) baffles as required in tank size spec., will be installed.

### **(OPTION) CONSTRUCTION PROCEDURE:**

When stainless tank option is used, there will be 10 gauge T-304 stainless steel strips welded between tank vessel and all mild steel weldments.

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## **SPECIFICATIONS P600 WATER TANKER**

### **SUB-FRAME:**

The skid mount rails shall be constructed from 3/16" steel and installed with five (5) cross members supported to tank bottom and side rails. 1" x 2 3/4" rubber sills shall be installed under skid mount rails in inverted channels.

### **(OPTION) SUB-FRAME-STAINLESS STEEL (T-304L 2B TYPE):**

With the stainless steel tank option, the skid mount rails shall be constructed from 3/16" stainless steel T304L 2B and installed with five (5) cross members supported to tank bottom and side rails. 1" x 2 3/4" rubber sills shall be installed under skid mount rails in inverted channels.

### **TANK MOUNTS:**

Tank mounts shall be male-female with coil springs (two (2) per mount), three (3) mounts per side bolted to truck and tank frame. Coil springs to be constructed from 5/16" material using 5/8" bolts and self locking nuts. Two (2) mounts per side on the 2,200 gallon size.

### **(OPTION) THREE POINT ROUGH SERVICE ON/OFF ROAD SUSPENSION:**

The sub frame will be constructed from 1/4" x 10" A-572 (Hi-Tensile) formed "C" channel for full length of tank. There will be five (5) cross members constructed into the sub frame assembly, as well as saddle supports constructed under each baffle. The sub frame width will be wider than the chassis frame and will be constructed so that the two (2) frame systems **DO NOT** touch during twisting or severe terrain operation.

### **FENDERS:**

Truck rear tires to be equipped with full formed fiberglass, rubber mounted fenders. Fenders to be pre-painted black.

### **WATER PUMP AND POWER SYSTEM:**

Water pump is a Gorman-Rupp model #06D1-G self priming 6" X 4" size. It will be powered by a Chelsea or Muncie air shift, clutch model transmission mounted P.T.O. and geared for compatible engine/pump speeds during pump and roll operations. The driveline will be a #1350 series Spicer assembly.

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## **SPECIFICATIONS P600 WATER TANKER**

### **SPRAY HEADS AND CONTROLS:**

There will be two(2) ea. 2 1/2" front mounted spray head nozzles and two(2) ea. 2 1/2" rear mounted spray head nozzles. These will be adjusted both for quantity and direction of water spray spread.

Each spray head will be equipped with a 2 1/2" Cla-valve globe style air/spring operated valve, with "on"/"off" controls located on cab console.

Plumbing to spray heads will be 3" on manifolds and 2 1/2" to individual heads.

### **(OPTION) STREET FLUSHER NOZZLES IN LIEU OF ABOVE "SPRAYHEADS"**

#### **SPECIFICATIONS:**

Two (2) ea. OMCO # 82 - 3 piece bronze flusher nozzles will be installed under front bumper approx. in alignment with frame rails. 2 ea. OMCO # 82 flusher nozzles will be installed left and right mid ship area.

### **(OPTION) STREET FLUSHER NOZZLE:**

Front flusher heads to rotate independently in a horizontal arc 45 degrees either way from center, air controlled from cab console.

#### **SELF LOADING SYSTEM:**

The water pump will be equipped with two (2) 3" hand operated butterfly valves and one (1) 4" hand operated butterfly valve. these valves will be located in a position which will allow self-loading of water tank. The "source" suction orifice will be 3" camlock connection. A section (3" X 20' long) of rubber suction hose will be furnished with strainer and camlock connection, as well as storage "J" hooks and lockable hasp.

### **(OPTION): SELF LOAD**

Delete self-loading system.

### **(OPTION) SIDE MOUNTED WATER HEAD:**

One 2" side mounted water head assembly will be placed on the right or left side, mid-ship at frame height. The nozzle will be constructed so as to discharge water in an approximate 20 degree fan. The purpose of the narrow arc is to move heavy debris and material that the ordinary flusher nozzles cannot move properly. The discharge will be 300 G.P.M. maximum at 90 P.S.I. and will discharge at distances of up to 75 feet. The unit will be capable of manual vertical adjustment of 45 degree above horizon to 45 degree below horizon.

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## **SPECIFICATIONS P600 WATER TANKER**

### **(OPTION) REMOTE CONTROLLED SIDE MOUNTED WATER HEAD:**

Remote controlled from cab vertical adjustment of 45 degree above horizon to 45 degree below horizon on **above** side mounted head assembly.

### **(OPTION) HOSE REEL ASSEMBLY:**

A live hose reel with accommodations for 1 1/2" X 50' hard rubber hose, mounted right side mid-shop for hand flushing. Water flow to hose to be air-operated with on/off valve located on hose reel. Reel to be Reelcraft with crank rewind.

### **(OPTION) MONITOR SYSTEM:**

Tank mounted Elkhart Sidewinder electric 500 G.P.M. cab controlled monitor. Sealed circuit 12V DC electric powered. Vertical move -45° to 90°, horizontal move 180° or 330°. Equipped with straight stream / fog adjustable nozzle. All operations are on console mounted Joy stick controller. This Remote Controlled Monitor is positioned so that is in view of driver (operator) thru mirror at all times.

### **CONTROL CONSOLE:**

Control console shall be constructed and mounted between seats inside cab.  
Console to have a water pressure gauge.  
Control console shall accommodate all necessary switches and P.T.O. shift controls.

### **STROBE BEACON:**

One double flash strobe beacon on top front center of tank, amber in color.

### **(OPTION) STROBE BEACON:**

A second beacon of the same type on top of tank at rear, amber in color.

### **(OPTION) STROBE BEACON:**

One or both warning lights will be LED double flash strobe beacon, amber in color.

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## **SPECIFICATIONS P600 WATER TANKER**

### **PLUMBING:**

All plumbing entries to be constructed from schedule 40 weld fittings, and fitted with welded collars.

Schedule 40 black pipe shall be used, with welded ells, tees, fittings, etc., rather than threaded pipe or fittings. Plumbing to be assembled using couplers with rubber gaskets at various locations so that assembly may be removed from the chassis.

### **PLUMBING (OPTIONS):**

All water plumbing will be constructed of T-304 stainless steel.

### **REAR INLET FOR HYDRANT FILLING:**

A hydrant fill station will be constructed at tank rear curbside. The plumbing will be equipped with visible 6" air gap at or near top tank center and fill hole will be arranged so that debris (tree leaves, etc.) cannot enter the tank. The entry station will be equipped with 2 ½" "Y" strainer with clean out basket. Plumbing assembly will be bolted to tank exterior, and be removable.

### **GRAVITY BAR:**

4" X 96" gravity bar with clean-out removable ends and equipped with 3/4" threaded rear outlet couplers on 8" centers and each with it's own 90 degree deflector assembly. The control valve will be a 4" butterfly air operated and controlled from cab console.

### **(OPTION) GRAVITY BAR:**

6" X 96" gravity bar with 1" threaded outlets, 6" butterfly valve.

### **(OPTION) OVERFLOW PIPING FOR LEGAL HIGHWAY OPERATION:**

A 3" overflow pipe will be installed at approximate tank center line and extended downward through tank bottom. A remote controlled air operated butterfly valve will be installed at outlet and controlled from cab console. The overflow pipe entry will be set at a height to insure a **highway legal weight**, with bottom valve open.



## **SPECIFICATIONS P600 WATER TANKER**

### **PAINT:**

Tank will be acid bathed and properly prepared prior to painting. A two (2) part modified polyamide epoxy primer (Approved for potable water) will be applied inside **(NO INSIDE PAINT ON STAINLESS STEEL TANK OPTION)**. Sherwin Williams Genesis acrylic urethane with hardener will be applied to outside of tank and components. Black enamel on all plumbing parts at and below frame height.

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## SPECIFICATIONS P-300 SERIES WATER TANKER

### TANK SIZE AND SHAPE OPTIONS:

<u>P322</u>	2,200 U.S. gallon capacity, elliptical shape, <b><u>Low Profile Design</u></b> , (54" minor axis x 85" major axis) x 144" long. Heads will be dished & flanged (5" min dish), 2 baffles will be dished (5" min. dish).
<u>P325</u>	2,500 gallon capacity (as above) x 168" long, 3 baffles.
<u>P330</u>	3,000 gallon capacity (as above) x 192" long, 3 baffles.
<u>P335</u>	3,500 gallon capacity elliptical shape, <b><u>Standard Profile Design</u></b> , (64" minor axis x 95" major axis) x 168" long. Heads will be dished & flanged (5" min dish), 3 baffles will be dished (5" min. dish).
<u>P338</u>	3,800 gallon capacity (as above) x 180" long, 3 baffles.
<u>P340</u>	4,000 gallon capacity (as above) x 192" long, 3 baffles.
<u>P345</u>	4,500 gallon capacity (as above) x 216" long, 3 baffles.

### MATERIAL:

The bottom 1/3 of tank skin will be constructed from 3/16" mild steel, the top 2/3 of the tank skin will be constructed from 10 gauge mild steel. The heads will be 3/16" dished and flanged (5" min. dish). Baffles shall be constructed from 10 gauge mild steel and be dished (5" min. dish).

### (OPTION) MATERIAL STAINLESS STEEL T-304L:

The bottom 1/3 of tank skin will be constructed from 3/16" T-304L stainless steel, the top 2/3 of the tank skin will be constructed from 10 gauge T-304L stainless steel. The heads will be 3/16" T-304L dished & flanged (5" minimum dish). Baffles shall be constructed from 10 gauge T-304L stainless steel & be dished (5" minimum dish.)

### CONSTRUCTION PROCEDURE:

The shell skin shall be unspliced sections for the entire length of tank, and be electrically welded longitudinally. The entire tank (heads, baffles, shell sections) will be 100% double welded. The baffles will be installed with 24" lined crawl holes, top and bottom 6" x 12" lined flow-holes. Two (2) or three (3) baffles as required in tank size specification will be installed. Tank will have a rear ladder and top cat walk rails and grip strut rungs.

## **SPECIFICATIONS P-300 SERIES WATER TANKER**

### **(OPTION) CONSTRUCTION PROCEDURE:**

When stainless tank option is used, there will be 10 gauge T-304L stainless steel strips welded between tank vessel and all mild steel weldments.

### **TOP MANHOLE:**

A recessed 30" open manhole will be installed for "Top Loading" purposes.

### **(OPTION) TOP MANHOLE:**

There shall be a 20" over center locking circular hatch cover. The manhole assembly will be welded into tank center top.

### **(OPTION) TOP MANHOLE:**

When the stainless steel tank option is used, a stainless steel 20" over center locking hatch cover will be used.

### **SUB-FRAME:**

The skid mount rails shall be constructed from 3/16" steel and installed with five (5) cross members supported to tank bottom and side rails. 1" x 2 3/4" rubber sills shall be installed under skid mount rails in inverted channels.

### **(OPTION) SUB-FRAME-STAINLESS STEEL (T-304L 2B TYPE):**

With the stainless steel tank option, the skid mount rails shall be constructed from 3/16" stainless steel T304L 2B and installed with six (6) cross members supported to tank bottom and side rails. 1" x 2 3/4" rubber sills shall be installed under skid mount rails in inverted channels.

### **TANK MOUNTS:**

Tank mounts shall be male-female with coil springs (two (2) per mount), three (3) mounts per side bolted to truck and tank frame. Coil springs to be constructed from 5/16" material using 5/8" bolts and self-locking nuts. Two (2) mounts per side on the 2,200 gallon size.

## **SPECIFICATIONS P-300 SERIES WATER TANKER**

### **(OPTION) TANK SUB-FRAME ASSEMBLY-THREE POINT ROUGH SERVICE SUSPENSION (ON / OFF ROAD OPERATION):**

The sub frame will be constructed from 1/4" x 10" A-572 (Hi-Tensile) fabricated "I" beam for full length of tank. There will be five (5) cross members constructed into the sub frame assembly, as well as saddle supports constructed under each baffle. The sub frame width will be wider than the chassis frame and will be constructed so that the two (2) frame systems DO NOT touch during twisting or severe terrain operation.

The tank will be mounted on truck chassis using a three (3) point mount procedure. The front single mount will be of oscillating design with heavy duty rocker frame constructed from A-572 (Hi-Tensile) steel and pinned with 1 1/2" # 4140 shafting (the load will not rest on pin, but will be resting on a cup and saucer assembly). The two (2) rear mounts will be located on both sides in trunnion suspension area and will be fastened by minimum 5/8" grade 8 cap screws (six (6) each), and equipped with coil springs

### **OMCO FIBERGLASS FENDERS:**

The OMCO fenders are to be constructed of common resin and fiberglass using rope mat (woven roving fiberglass mat) rather than cloth material for stronger construction. The fenders will be pre-painted black in the mold with gel coat. The finished fenders shall be 5/16" in thickness. The full formed fiberglass, rubber mounted fenders will cover the entire dual drive tire area and have mud flaps. The fenders shall be attached to three(3) each T-304L stainless steel fender mounting brackets. The T-304L stainless steel mounting brackets shall be attached to the tank frame. The fenders shall be painted jet black or color of customer choice using Sherwin Williams Genesis acrylic urethane with hardener.

### **WATER PUMP AND POWER SYSTEM:**

Water pump is a Gorman-Rupp model #03H1-GL self-priming 3" X 3" size. It will be powered by a Chelsea or Muncie air shift, clutch model transmission mounted P.T.O. and geared for compatible engine/pump speeds during pump and roll operations. The driveline will be a #1310 series Spicer assembly.

### **SPRAY HEADS AND CONTROLS:**

There will be 2 each 2" front mounted spray head nozzles and 2 each 2" rear mounted spray head nozzles. These will be adjusted both for quantity and direction of water spray spread. Each spray head will be equipped with a 2" Cla-valve globe style air/spring operated valve, with "on"/"off" controls located on cab console. Plumbing to spray heads will be 3" on manifolds and 2" to individual heads.

## **SPECIFICATIONS P-300 SERIES WATER TANKER**

### **(OPTION) STREET FLUSHER NOZZLES IN LIEU OF ABOVE "SPRAYHEADS"** **SPECIFICATIONS:**

Two (2) each OMCO # 82 three piece bronze flusher nozzles will be installed under front bumper approximately in alignment with frame rails. The valve control will be air/spring style and be operated (on-off) from cab console.

### **(OPTION) MIDSHIP STREET FLUSHER NOZZLES:**

Two (2) each OMCO # 82 three piece bronze flusher head nozzles, mid ships will be located under or slightly behind cab, operated toward left and right sides. The valve control will be air/spring style and be operated (on-off) from cab console.

### **(OPTION) REMOTE CONTROL STREET FLUSHER NOZZLE:**

Front flusher heads to rotate independently in a horizontal arc 45 degrees either way from center, electric/air controlled from cab console.

### **SELF LOADING SYSTEM:**

The water pump will be equipped with two (2) 3" hand operated butterfly valves and one (1) 4" hand operated butterfly valve. These valves will be located in a position which will allow self-loading of water tank. The "source" suction orifice will be 3" camlock connection. A section (3" X 20' long) of rubber suction hose will be furnished with strainer and camlock connection, as well as storage "J" hooks and lockable hasp.

### **OPTION:**

Delete self-loading system.

### **(OPTION) SIDE MOUNTED WATER HEAD:**

One 2" side mounted water head assembly will be placed on the right or left side, mid-ship at frame height. The nozzle will be constructed so as to discharge water in an approximate 20 degree fan. The purpose of the narrow arc is to move heavy debris and material that the ordinary flusher nozzles cannot move properly. The discharge will be 300 G.P.M. maximum at 90 P.S.I. and will discharge at distances of up to 75 feet. The unit will be capable of manual vertical adjustment of 45 degree above horizon to 45 degree below horizon.

### **(OPTION) REMOTE CONTROLLED SIDE MOUNTED WATER HEAD:**

Remote controlled from cab vertical adjustment of 45 degree above horizon to 45 degree below horizon on above side mounted head assembly.

**SPECIFICATIONS  
P-300 SERIES WATER TANKER**

**(OPTION) HOSE REEL ASSEMBLY:**

A live hose reel with accommodations for 1 1/2" X 50' hard rubber hose, mounted right side mid-shop for hand flushing. Water flow to hose to be air-operated with on/off valve located on hose reel. Reel to be Reelcraft with manual crank rewind.

**(OPTION) ELECTRIC REWIND ON HOSE REEL:**

2/3 H.P. electric rewind with S.S. chain and circuit breaker.

**CONTROL CONSOLE:**

Control console shall be constructed and mounted between seats inside cab.  
Console to have a water pressure gauge.  
Control console shall accommodate all necessary switches and P.T.O. shift controls.

**LIGHTING:**

All running lights will be L.E.D. style rubber mounted lamps. Wiring shall be enclosed in rubber conduit. Reflectors will be installed, and the system will comply with D.O.T. #108.

**STROBE BEACON:**

One beacon light will be LED double flash, amber in color on top of tank.

**(OPTION) SECOND BEACON:**

A second beacon of the same type on top of tank, amber in color.

**ENTRIES AND PLUMBING:**

All plumbing entries shall be constructed from schedule 40 weld fittings and will be fitted with welded collars to distribute the flex and prevent cracking. All plumbing and piping will be schedule 40 black pipe, using weld ells, tees, fittings, etc., rather than threaded pipe or fittings. The plumbing shall be assembled using rubber gasket couplers at necessary locations and in such a manner that the assembly may be removed as needed from the chassis.

**PLUMBING (OPTIONS):**

All water plumbing will be constructed of T-304 stainless steel.

**SPECIFICATIONS  
P-300 SERIES WATER TANKER**

**(OPTION): REAR INLET FOR HYDRANT FILLING:**

A hydrant fill station will be constructed at tank rear curbside. The plumbing will be equipped with visible 6" air gap at or near top tank center and fill hole will be arranged so that debris (tree leaves, etc.) cannot enter the tank. The entry station will be equipped with 2 1/2" "Y" strainer with clean out basket. Plumbing assembly will be bolted to tank exterior, and be removable.

**GRAVITY BAR:**

4" X 96" gravity bar with clean-out removable ends and equipped with 3/4" threaded rear outlet couplers on 8" centers and each with it's own 90 degree deflector assembly. The control valve will be a 4" butterfly air operated and controlled from cab console.

**(OPTION) 6" GRAVITY BAR:**

6" X 96" gravity bar with 1" threaded outlets, 6" butterfly valve.

**(OPTION) OVERFLOW PIPING FOR LEGAL HIGHWAY OPERATION:**

A 3" overflow pipe will be installed at approximate tank center line and extended downward through tank bottom. A remote controlled air operated butterfly valve will be installed at outlet and controlled from cab console. The overflow pipe entry will be set at a height to insure a highway legal weight, with bottom valve open.

**PAINT:**

Tank will be properly prepared prior to painting. A two (2) part modified polyamide epoxy primer will be applied inside (NO INSIDE PAINT ON STAINLESS STEEL TANK OPTION) tank. Sherwin Williams Genesis acrylic urethane with hardener will be applied to outside of tank and components. The apparatus paint color shall match the chassis cab. Black enamel on all plumbing parts at and below frame height.



## **TANK SIZE AND SHAPE OPTIONS:**

<u>H422</u>	2,200 U.S. gallon capacity, elliptical shape, <b><u>Low Profile Design</u></b> , (54" minor axis x 85" major axis) x 144" long. Heads will be dished & flanged (5" min dish), 2 baffles will be dished (5" min. dish).
<u>H425</u>	2,500 gallon capacity (as above) x 168" long, 3 baffles.
<u>H430</u>	3,000 gallon capacity (as above) x 192" long, 3 baffles.
<u>H435</u>	3,500 gallon capacity elliptical shape, <b><u>Standard Profile Design</u></b> , (64" minor axis x 95" major axis) x 168" long. Heads will be dished & flanged (5" min dish), 3 baffles will be dished (5" min. dish).
<u>H438</u>	3,800 gallon capacity (as above) x 180" long, 3 baffles.
<u>H440</u>	4,000 gallon capacity (as above) x 192" long, 3 baffles.
<u>P345</u>	4,500 gallon capacity (as above) x 216" long, 3 baffles.

## **MATERIAL:**

The bottom 1/3 of tank skin will be constructed from 3/16" mild steel, the top 2/3 of the tank skin will be constructed from 10 gauge mild steel. The heads will be 3/16" dished and flanged (5" min. dish). Baffles shall be constructed from 10 gauge mild steel and be dished (5" min. dish).

## **(OPTION) MATERIAL STAINLESS STEEL T-304:**

The bottom 1/3 of tank skin will be constructed from 3/16" T-304 stainless steel, the top 2/3 of the tank skin will be constructed from 10 gauge T-304 stainless steel. The heads will be 3/16" T-304 dished & flanged (5" minimum dish). Three (3) baffles shall be constructed from 10 gauge T-304 stainless steel & be dished (5" minimum dish.)

## **CONSTRUCTION PROCEDURE:**

The shell skin shall be unspliced sections for the entire length of tank, and be electrically welded longitudinally. The entire tank (heads, baffles, shell sections) will be 100% double welded. The baffles will be installed with 24" lined crawl holes, top and bottom 6" x 12" lined flow-holes. Two (2) or three (3) baffles as required in tank size specification will be installed. Tank will have a rear ladder and top cat walk rails and grip strut rungs.

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### **(OPTION) CONSTRUCTION PROCEDURE:**

When stainless tank option is used, there will be 10 gauge T-304L stainless steel strips welded between tank vessel and all mild steel weldments.

### **SUB-FRAME: H400 (ON ROAD OPERATION):**

The skid mount rails shall be constructed from 3/16" steel and installed with five (5) cross members supported to tank bottom and side rails.

### **TANK MOUNTS: H400 (ON ROAD OPERATION)**

Tank mounts shall be male-female with coil springs (two (2) per mount), three (3) mounts per side bolted to truck and tank frame. Coil springs to be constructed from 5/16" material using 5/8" bolts and self-locking nuts. Two (2) mounts per side on the H422 size.

### **TANK SUB-FRAME ASSEMBLY-THREE POINT ROUGH SERVICE SUSPENSION:**

#### **H400-XHD (ON / OFF ROAD OPERATION):**

The sub frame will be constructed from 1/4" x 10" A-572 (Hi-Tensile) fabricated "I" beam for full length of tank. There will be six (6) cross members constructed into the sub frame assembly, as well as saddle supports constructed under each baffle. The sub frame width will be wider than the chassis frame and will be constructed so that the two (2) frame systems DO NOT touch during twisting or severe terrain operation.

#### **TANK MOUNTS: H400-XHD (ON/OFF ROAD OPERATION):**

The tank will be mounted on truck chassis using a three (3) point mount procedure. The front single mount will be of oscillating design with heavy duty rocker frame constructed from A-572 (Hi-Tensile) steel and pinned with 1 1/2" # 4140 shafting (the load will not rest on pin, but will be resting on a cup and saucer assembly). The two (2) rear mounts will be located on both sides in trunnion suspension area and will be fastened by minimum 5/8" grade 8 cap screws (six (6) each), and equipped with coil springs.

#### **TOP FILL HOLE / MAN WAY:**

A 30" open fill hole recessed 4" into tank to help prevent spillage of water. The purpose of this design is to allow easy filling by top load method.



### **(OPTION) TOP MAN WAY COVER:**

A 20" over center locking, hinged cover will be installed.

### **(OPTION) STAINLESS STEEL TOP MAN WAY COVER:**

A 20" T-304L stainless steel over center locking, hinged cover will be used with stainless steel tank option.

### **OMCO FIBERGLASS FENDERS:**

The OMCO fenders are to be constructed of common resin and fiberglass using rope mat (woven roving fiberglass mat) rather than cloth material for stronger construction. The fenders will be pre-painted black in the mold with gel coat. The finished fenders shall be 5/16" in thickness. The full formed fiberglass, rubber mounted fenders will cover the entire dual drive tire area and have mud flaps. The fenders shall be attached to three(3) each T-304L stainless steel fender mounting brackets. The T-304L stainless steel mounting brackets shall be attached to the tank frame. The fenders shall be painted jet black or color of customer choice using Sherwin Williams Genesis acrylic urethane with hardener.

### **WATER PUMP POWER SYSTEM:**

Water pump to be driven by a piston-type closed loop, hydro-static transmission - with loop cooling filtration and adjustable pressure control. Continuous duty required, compatible with the torque values of the chassis engine. Servo controlled, driven by a drive shaft connected to the front of the engine crankshaft. The pump shall be controlled from the cab console using a quadrant throttle. Oil condition (in hydrostatic loop) shall be maintained by a 30 G.P.M. 10 Micron full-flow spin-type filter, and an oil cooler rated at 27,000 BTU/hr. The externally adjustable automatic pressure control is to override the cable control, and to maintain constant full performance water pressures when engine speeds are above 850 R.P.M. Oil reservoir to be vented to prevent ingestion of water spray, so that no water will go into the oil system. The motor will be a bent axis style, and flange mounted directly to the Gorman Rupp # 04A3-B water pump.

### **FRONT & REAR SPRAY HEADS AND CONTROLS:**

Spray head control valves to be 2 1/2" Cla-valve with air shut-off. Plumbing to water heads to be 3" on manifold, and to individual heads. Two (2) front spray heads to be located in front of bumper on both left and right side; two (2) rear spray-heads to be located on left and right side of tank rear. All four (4) heads will be 2 1/2" size and adjustable for quantity as well as direction of spray. The control method for all heads shall be air-spring, and shall be operated from the cab console.

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### **(OPTION) MUD FLUSHERS**

Two (2) mud flusher duck foot nozzles with quick connects will be furnished to be interchanged with front spray head assemblies, and a storage basket will be positioned on front bumper area.

### **CONTROL CONSOLE:**

Control console shall be constructed and mounted between seats inside cab. Console to have a water pressure gauge, glycerin filled 0-200 P.S.I.. Control console shall accommodate all necessary electric over air switches and hydro-static throttle controls. Console to be painted with Rustoleum Hammerite.

### **BEACON:**

One LED double flash strobe beacon on top front center of tank, amber in color.

### **(OPTION) BEACON:**

A second LED beacon of the same type on top of tank at rear, amber in color.

### **PLUMBING:**

All plumbing entries to be constructed from Schedule 40 weld fittings, and fitted with welded collars. Schedule 40 black pipe shall be used, with welded ells, tees, fittings, etc., rather than threaded pipe or fittings. Threaded pipe will be used only as necessary on pump and valve connections. Plumbing to be assembled using rubber gasketed couplers at various locations so that assembly may be removed from the chassis.

### **(OPTION) STAINLESS STEEL PLUMBING**

All water plumbing will be constructed of T-304 stainless steel.

### **(OPTION): REAR INLET FOR HYDRANT FILLING:**

A hydrant fill station will be constructed at tank rear curbside. The plumbing will be equipped with visible 6" air gap at or near top tank center and fill hole will be arranged so that debris (tree leaves, etc.) cannot enter the tank. The plumbing shall be removable for maintenance.



**(OPTION): HYDRANT FILL SCREEN**

A 2 1/2" "Y" strainer with stainless steel basket will be installed on hydrant fill plumbing.

**(OPTION) FIRE DEPARTMENT TENDER VALVE:**

A 2 1/2" brass male N.S.T. discharge fitting will be installed for the purpose of transfer of water to another tanker, (such as your local fire department pumper), at up to 850 G.P.M.

**(OPTION) HOSE REEL (STANDARD EQUIPMENT ON XHD SERIES):**

A live hose reel with accommodations for 1 1/2" x 60' hard rubber hose, mounted right side mid-ship for hand flushing. Water flow to hose to be controlled with a ball valve located on hose reel. Reel to be Reelcraft (or equivalent), with crank rewind, 200 P.S.I. hose and brass fog nozzle will be installed.

**(OPTION) HOSE REEL:**

2/3 H.P. electric rewind with S.S. chain and circuit breaker.

**WATER PUMP:**

Gorman Rupp # 04A3-B 4" x 4" self-priming cast iron centrifugal pump with performance ability of 600 G.P.M. @ 100 P.S.I., and 750 G.P.M. @ 85 P.S.I.

**(OPTION) LEFT SIDE MOUNTED WATER HEAD:**

One 2 1/2" side mounted water head assembly will be placed on the left side, mid-ship at frame height. The nozzle will be constructed so as to discharge water in an approximate 20 degree fan. The purpose of the narrow arc is to move heavy debris and material, that the ordinary water nozzle cannot move properly, and to provide correct placement of water in areas adjacent to, but not accessible to travel by the tanker. The discharge will be 400 G.P.M. maximum at 90 P.S.I. and will discharge at distances of up to 75 feet. Side heads will be capable of vertical adjustment remotely from cab console, of 45 degree above the horizon to 45 degree below horizon.

**(OPTION) RIGHT SIDE MOUNTED WATER HEAD:**

A 2 1/2" water head assembly located on right side frame height mid-ship. Manually or remotely controlled.



### **GRAVITY BAR:**

A 6" x 96" gravity bar with clean-out removable ends and equipped with 1" threaded rear outlet couplers on 8" center and each with its own 90 degree deflector assembly. The control valve will be a 6" butterfly air operated and controlled from cab console.

### **SELF LOADING SYSTEM, VALVES:**

The water pump will be equipped with three (3) 4" hand operated butterfly valves. These valves will be located in a position which will allow self-loading of water tank. The "source" suction orifice will be 4" camlock connection. A section (4" x 20' long) of rubber suction hose will be furnished with strainer and camlock connection, as well as storage "J" hooks and lockable hasp

### **(OPTION) MONITOR SYSTEM:**

Tank mounted Elkhart Sidewinder electric 500 G.P.M. cab controlled monitor. Sealed circuit 12V DC electric powered. Vertical move -45° to 90°, horizontal move 180° or 330°. Equipped with straight stream / fog adjustable nozzle. All operations are on console mounted Joy stick controller. This Remote Controlled Monitor is positioned so that is in view of driver (operator) through mirror at all times.

### **(OPTION) REAR OPERATORS CAGE & MONITOR SYSTEM:**

A mild steel rear operators platform (cage) shall be constructed on tank rear left side. A 3" manual controlled monitor shall be installed inside the cage and shall be adjustable for storage and operating heights. The monitor shall have a 500 G.P.M. fog/stream manually adjustable nozzle. The monitor will be equipped with a 2 1/2" on/off air valve. There shall be a control console located in the operators platform. The air valve and hydraulic pump throttle controls will be located on this control console.

The cage will have raised expanded metal flooring for free drainage, be equipped with entry way and framed with square tube as approved by OSHA. The entry way will be accessed from the rear ladder and be equipped with a safety chain arrangement. A mild steel rear deck/bumper will be installed at tank rear, and extend beyond cage to protect it from damage.

### **(OPTION) STAINLESS STEEL REAR OPERATORS CAGE:**

The rear operators platform (cage) shall be constructed from T304L stainless steel.



#### **(OPTION) STAINLESS STEEL REAR DECK/BUMPER:**

The rear deck/bumper shall be constructed from T304L stainless steel.

#### **(OPTION) TOOL COMPARTMENTS:**

Single or double door style (depending on available room).

Sweep out design with box pan door/(s).

Door design with café style or swing up style doors.

24" deep x 24" high x 24" to 60" long. (Double doors on compartments longer than 36" long).

Stainless steel piano hinge and twist lock S.S. latch with or without keys. Mild steel, aluminum, or stainless steel construction.

#### **(OPTION) OVERFLOW PIPING FOR LEGAL HIGHWAY OPERATION:**

A 3" overflow pipe will be installed at approximate tank center line and extended downward through tank bottom. A remote controlled air operated butterfly valve will be installed at outlet and controlled from cab console. The overflow pipe entry will be set at a height to insure a **highway legal weight**, with bottom valve open.

#### **(OPTION) REAR PUSH BAR:**

A heavy duty rear push bar will be installed using extended truck chassis frame rails, and a contoured push block.

#### **PAINT:**

Tank will be acid bathed and properly prepared prior to painting. A two (2) part modified polyamide epoxy primer will be applied inside **(NO INSIDE PAINT ON STAINLESS STEEL TANK OPTION)** tank. Sherwin Williams Genesis acrylic urethane with hardener will be applied to outside of tank and components. The apparatus paint color shall match the chassis cab. Black enamel on all plumbing parts at and below frame height.



## P-400 SPECIFICATIONS

### **TANK SIZE AND SHAPE OPTIONS:**

**P422** 2,200 U.S. gallon capacity, elliptical shape, **Low Profile Design**, (54" minor axis x 85" major axis) x 144" long. Heads will be dished & flanged (5" min dish), 2 baffles will be dished (5" min. dish).

**P425** 2,500 gallon capacity (as above) x 168" long, 3 baffles.

**P430** 3,000 gallon capacity (as above) x 192" long, 3 baffles.

**P435** 3,500 gallon capacity elliptical shape, **Standard Profile Design**, (64" minor axis x 95" major axis) x 168" long. Heads will be dished & flanged (5" min dish), 3 baffles will be dished (5" min. dish).

**P438** 3,800 gallon capacity (as above) x 180" long, 3 baffles.

**P440** 4,000 gallon capacity (as above) x 192" long, 3 baffles.

**P445** 4,500 gallon capacity (as above) x 216" long, 3 baffles.

### **MATERIAL:**

The bottom 1/3 of tank skin will be constructed from 3/16" mild steel, the top 2/3 of the tank skin will be constructed from 10 gauge mild steel. The heads will be 3/16" dished and flanged (5" min. dish). Baffles shall be constructed from 10 ga. mild steel and be dished (5" min. dish).

### **(OPTION) MATERIAL STAINLESS STEEL T-304L:**

The bottom 1/3 of tank skin will be constructed from 3/16" T-304L stainless steel, the top 2/3 of the tank skin will be constructed from 10 gauge T-304L stainless steel. The heads will be 3/16" T-304L dished & flanged (5" minimum dish). Three (3) baffles shall be constructed from 10 gauge T-304L stainless steel & be dished (5" minimum dish.)

### **CONSTRUCTION PROCEDURE:**

The shell skin shall be unspliced sections for the entire length of tank, and be electrically welded longitudinally. The entire tank (heads, baffles, shell sections) will be 100% double welded. The baffles will be installed with 24" lined crawl holes, top and bottom 6" x 12" lined flow-holes. Two (2) or three (3) baffles as required in tank size spec., will be installed. Tank will have a rear ladder and top cat walk rails and grip strut rungs.

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## P-400 SPECIFICATIONS

### **(OPTION) CONSTRUCTION PROCEDURE:**

When stainless tank option is used, there will be 10 gauge T-304L stainless steel strips welded between tank vessel and all mild steel weldments.

### **TOP MANHOLE:**

A recessed 30" open manhole will be installed for "Top Loading" purposes.

### **(OPTION) TOP MANHOLE:**

There shall be a 20" over center locking circular hatch cover. The manhole assembly will be welded into tank center top.

### **(OPTION) TOP MANHOLE:**

When the stainless steel tank option is used, a stainless steel 20" over center locking hatch cover will be used.

### **CONSTRUCTION PROCEDURE:**

The shell skin shall be unspliced sections for the entire length of tank, and be electrically welded longitudinally. The entire tank (heads, baffles, shell sections) will be 100% double welded. The baffles will be installed with 24" lined crawl holes, top and bottom 6" X 12" lined flow holes. Two (2) or three (3) baffles as required in tank size spec., will be installed.

### **(OPTION) CONSTRUCTION PROCEDURE:**

When stainless tank option is used, there will be 10 gauge T-304 stainless steel strips welded between tank vessel and all mild steel weldments.

### **SUB-FRAME:**

The skid mount rails shall be constructed from 3/16" steel and installed with five (5) cross members supported to tank bottom and side rails. 1" x 2 3/4" rubber sills shall be installed under skid mount rails in inverted channels.

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MAILING ADDRESS • PO BOX 66 • PRINEVILLE, OR 97754  
WEBSITE [www.omco-mfg.com](http://www.omco-mfg.com)



## P-400 SPECIFICATIONS

### **(OPTION) SUB-FRAME-STAINLESS STEEL (T-304L 2B TYPE):**

With the stainless steel tank option, the skid mount rails shall be constructed from 3/16" stainless steel T304L 2B and installed with five (5) cross members supported to tank bottom and side rails. 1" x 2 3/4" rubber sills shall be installed under skid mount rails in inverted channels.

### **TANK MOUNTS:**

Tank mounts shall be male-female with coil springs (two (2) per mount), three (3) mounts per side bolted to truck and tank frame. Coil springs to be constructed from 5/16" material using 5/8" bolts and self-locking nuts. Two (2) mounts per side on the 2,200 gallon size.

### **(OPTION) THREE POINT ROUGH SERVICE ON/OFF ROAD SUSPENSION:**

The sub frame will be constructed from 1/4" x 10" A-572 (Hi-Tensile) formed "C" channel for full length of tank. There will be five (5) cross members constructed into the sub frame assembly, as well as saddle supports constructed under each baffle. The sub frame width will be wider than the chassis frame and will be constructed so that the two (2) frame systems **DO NOT** touch during twisting or severe terrain operation.

### **FENDERS:**

Truck rear tires to be equipped with full formed fiberglass, rubber mounted fenders. Fenders to be pre-painted black.

### **WATER PUMP AND POWER SYSTEM:**

Water pump is a Gorman-Rupp model #04E1-GA self priming 4" X 4" size. It will be powered by a Chelsea or Muncie air shift, clutch model transmission mounted P.T.O. and geared for compatible engine/pump speeds during pump and roll operations. The driveline will be a #1350 series Spicer assembly.

### **SPRAY HEADS AND CONTROLS:**

There will be two(2) ea. 2 1/2" front mounted spray head nozzles and two(2) ea. 2 1/2" rear mounted spray head nozzles. These will be adjusted both for quantity and direction of water spray spread. Each spray head will be equipped with a 2 1/2" Cla-valve globe style air/spring operated valve, with "on"/"off" controls located on cab console. Plumbing to spray heads will be 3" on manifolds and 2 1/2" to individual heads.

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## P-400 SPECIFICATIONS

### **(OPTION) STREET FLUSHER NOZZLES IN LIEU OF ABOVE "SPRAYHEADS"** **SPECIFICATIONS:**

Two (2) ea. OMCO # 82 - 3 piece bronze flusher nozzles will be installed under front bumper approx. in alignment with frame rails. 2 ea. OMCO # 82 flusher nozzles will be installed left and right mid ship area.

### **(OPTION) STREET FLUSHER NOZZLE:**

Front flusher heads to rotate independently in a horizontal arc 45 degrees either way from center, air controlled from cab console.

### **SELF LOADING SYSTEM:**

The water pump will be equipped with two (2) 3" hand operated butterfly valves and one (1) 4" hand operated butterfly valve. these valves will be located in a position which will allow self-loading of water tank. The "source" suction orifice will be 3" camlock connection. A section (3" X 20' long) of rubber suction hose will be furnished with strainer and camlock connection, as well as storage "J" hooks and lockable hasp.

### **OPTION:**

Delete self-loading system.

### **(OPTION) HOSE REEL ASSEMBLY:**

A live hose reel with accommodations for 1 1/2" X 50' hard rubber hose, mounted right side mid-shop for hand flushing. Water flow to hose to be air-operated with on/off valve located on hose reel. Reel to be Reelcraft with crank rewind.

### **(OPTION) ELECTRIC REWIND ON HOSE REEL:**

2/3 H.P. electric rewind with S.S. chain and circuit breaker.

### **(OPTION) SIDE MOUNTED WATER HEAD:**

One 2" side mounted water head assembly will be placed on the right or left side, mid-ship at frame height. The nozzle will be constructed so as to discharge water in an approximate 20 degree fan. The purpose of the narrow arc is to move heavy debris and material that the ordinary flusher nozzles cannot move properly. The discharge will be 300 G.P.M. maximum at 90 P.S.I. and will discharge at distances of up to 75 feet. The unit will be capable of manual vertical adjustment of 45 degree above horizon to 45 degree below horizon.

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## P-400 SPECIFICATIONS

### **(OPTION) REMOTE CONTROLLED SIDE MOUNTED WATER HEAD:**

Remote controlled from cab vertical adjustment of 45 degree above horizon to 45 degree below horizon on **above** side mounted head assembly.

### **(OPTION) MONITOR SYSTEM:**

Tank mounted Elkhart Sidewinder electric 500 G.P.M. cab controlled monitor. Sealed circuit 12V DC electric powered. Vertical move -45° to 90°, horizontal move 180° or 330°. Equipped with straight stream / fog adjustable nozzle. All operations are on console mounted Joy stick controller. This Remote Controlled Monitor is positioned so that is in view of driver (operator) thru mirror at all times.

### **CONTROL CONSOLE:**

Control console shall be constructed and mounted between seats inside cab.  
Console to have a water pressure gauge.  
Control console shall accommodate all necessary switches and P.T.O. shift controls.

### **STROBE BEACON:**

One double flash strobe beacon on top front center of tank, amber in color.

### **(OPTION) STROBE BEACON:**

A second beacon of the same type on top of tank at rear, amber in color.

### **(OPTION) STROBE BEACON:**

One or both warning lights will be LED double flash strobe beacon, amber in color

### **PLUMBING:**

All plumbing entries to be constructed from schedule 40 weld fittings, and fitted with welded collars. Schedule 40 black pipe shall be used, with welded ells, tees, fittings, etc., rather than threaded pipe or fittings. Plumbing to be assembled using couplers with rubber gaskets at various locations so that assembly may be removed from the chassis.

### **PLUMBING (OPTIONS):**

All water plumbing will be constructed of T-304 stainless steel.

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## P-400 SPECIFICATIONS

### **REAR INLET FOR HYDRANT FILLING:**

A hydrant fill station will be constructed at tank rear curbside. The plumbing will be equipped with visible 6" air gap at or near top tank center and fill hole will be arranged so that debris (tree leaves, etc.) cannot enter the tank. The entry station will be equipped with 2 ½" "Y" strainer with clean out basket. Plumbing assembly will be bolted to tank exterior, and be removable.

### **GRAVITY BAR:**

4" X 96" gravity bar with clean-out removable ends and equipped with ¾" threaded rear outlet couplers on 8" centers and each with its own 90 degree deflector assembly. The control valve will be a 4" butterfly air operated and controlled from cab console.

### **(OPTION) GRAVITY BAR:**

6" X 96" gravity bar with 1" threaded outlets, 6" butterfly valve.

### **(OPTION) OVERFLOW PIPING FOR LEGAL HIGHWAY OPERATION:**

A 3" overflow pipe will be installed at approximate tank center line and extended downward through tank bottom. A remote controlled air operated butterfly valve will be installed at outlet and controlled from cab console. The overflow pipe entry will be set at a height to insure a **highway legal weight**, with bottom valve open.

### **PAINT:**

Tank will be properly prepared prior to painting. Rustoleum two (2) part epoxy primer will be applied inside (**NO INSIDE PAINT ON STAINLESS STEEL TANK OPTION**). Sherwin Williams Genesis acrylic urethane with hardener will be applied to outside of tank and components. Black enamel on all plumbing parts at and below frame height.

**PB** LOADERS



**PB**

**WORLD CLASS TRUCK-MOUNTED LOADERS SINCE 1954**

## PB LOADER SPECIFICATIONS

LOADER MODELS	L-100 L-200	L-100-T L-200-T	L-100-C L-200-C	L-100-CT L-200-CT	L-150 L-250	L-150-T L-250-T	L-150-C L-250-C	L-150-CT L-250-CT
LIFTING CAPACITY	3000 lbs	3000 lbs	3000 lbs	3000 lbs	5000 lbs	5000 lbs	5000 lbs	5000 LBS
SHOVEL CAPACITY	.75 cu yd	.75 cu yd	1 cu yd	1 cu yd	1.25 cu yd	1.25 cu yd	1.5 cu yd	1.5 cu yd
LOADER CYLINDERS	1	1	1	1	2	2	2	2
CLAM CYLINDERS			2	2			2	2
TILT CYLINDERS		1		1		2		2

### KEY

L-100 = for conventional cabs  
L-200 = for tilt cabs

C = clam attachment  
T = tilting shovel

CT = clam attachment with  
tilting shovel

## PB LOADER OPTIONS

Air Controls

Air-Operated Automatic

Retracting Mirrors

Arrow Boards

Body Covers

Bolt-On Cutting Edge

Cab Shields

Carbide Cutting Edge

Cone Holders

Dump Bodies

Emulsion Spray Systems

Fire Extinguisher

Hardened Shovel Sides

Hitches

Hose Reels

Lockable Tool Boxes

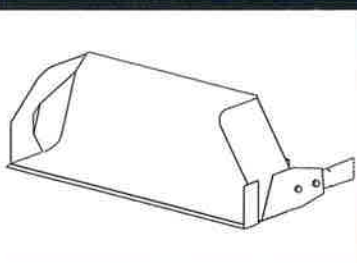
Shoveling Apron

Strobe Lights and Beacons

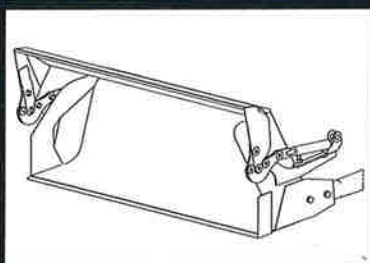
Tool Holders

Triangle Kits

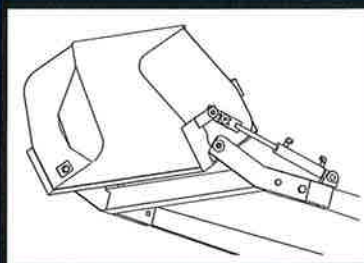
Work Lights



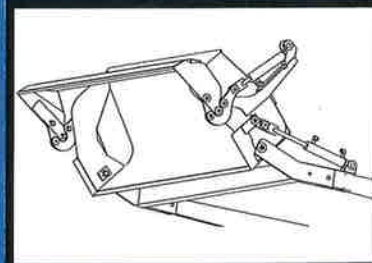
Standard Shovel



Shovel with  
Clam Attachment



Tilting Shovel



Tilting Shovel with  
Clam Attachment



**BC** PATCHERS



**WORLD CLASS PATCHERS SINCE 1957**

## FULLY INSULATED CONTAINERS AND DOORS



### Any Capacity To Meet Your Requirements

Available in 1.5 to 10 cubic yard capacity. Fully insulated with 2" of industrial fiberglass insulation. Custom sizes also available; please contact us for details.



### Fully Insulated Top Loading Doors

Hydraulically operated and fully insulated with 2" of industrial fiberglass insulation. Keeps asphalt hot all day and night, even during winter. Heats cold mix.

## WORLD CLASS EMULSION SYSTEMS



### S Model Emulsion Spray System

Compressed air type sprayer. Sizes available: 35, 60, 130 and 200 gallon. Optional solvent tank and overnight heat system.



### BH Model Emulsion Spray System

Pump type sprayer includes everything you need for tack coating. Holds 132 gallons of emulsion and 21 gallons of solvent. Includes spray system and built-in 110 VAC electric heater to keep emulsion hot overnight.

### PB can customize a patcher to meet your exact needs.

PB Patchers simplify asphalt patching with a full range of operator features that improve productivity and lower patching costs. Each PB Patcher is also available with a variety of special options to meet your particular patching requirements. Contact us today and PB will customize a patcher to meet your needs.

## FULLY EQUIPPED PATCHERS FOR YEAR-ROUND OPERATION

### ADJUSTABLE RADIANT HEATING SYSTEMS



#### Adjustable Temperature Keeps Asphalt Hot

The Radiant Heat System on PB Patchers keeps asphalt hot for a full shift. Welded heat tubes spread the heat throughout the asphalt container. Temperature range is adjustable from 100° to 300°.



#### Convenient Heat Sources To Meet Your Needs

LPG available in 25, 35 or 50 gallon capacity; upright or horizontal styles. LPG Tanks are easily accessible for refilling and storage. (CNG, Diesel and Electric are also available only with on-board generator and electric overnight plug-in).

### CONVEYOR CHOICES FOR SMOOTH OPERATION



#### Heavy Duty Kevlar Conveyor Belt

An extremely durable, long-lasting Kevlar belt moves asphalt out of the container for continuous operation.



#### Heavy Duty Steel Chain Conveyor

Equipped with strong steel chain that's heat-treated and engineered specifically to smoothly move asphalt from the container box. Superior strength ensures extended wear life.

800-350-8521

# PB Model DA Dual Auger



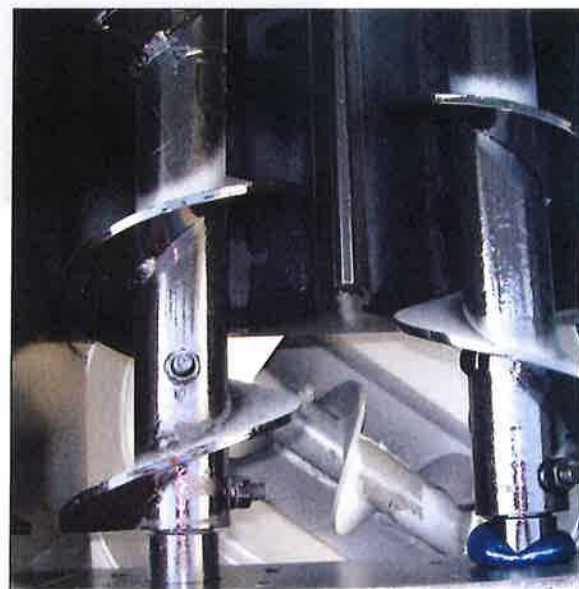
## Unique Features

- Each auger is 10 feet in length.
- Flights are constructed of ¼" AR400 steel.
- Shafts constructed of Schedule 80 pipe.
- Supported at each end with sealed bearings.
- Dedicated drive motors for each auger.
- Forward and reverse controls.
- Eliminates the anti-bridging agitator.
- Variable speed hydraulic motors.
- Flanged bearings on each end of shaft, driven by hydraulic motors.

## Benefits of the Dual Auger Over Single Auger Systems

There are several advantages to the dual auger system over the single auger. With side-by-side dual augers rotating into each other, it **eliminates** the bridging effect that is seen with single auger systems. This makes the anti-bridging device (or agitator) unnecessary; reducing the hassle to operator and making the unit much safer to enter if the asphalt box needs any maintenance.

Other benefits include much greater discharge capacity, allowing the unit to be emptied twice as fast for filling very large patches versus a single auger system. Since each auger has its own drive motor, the system has twice the torque and power to break up and deliver stiff loads. Each motor, drive shaft and auger experiences less stress because the work load is divided between the two; the components have a much longer life span.



## Available On These Models

- Truck-Mounted Patchers: DA-3, DA-4, DA-5, DA-6
- Trailer Patcher: DA-3TM, DA-4TM
- Slip-In Patcher: DA-3SM, DA-4SM
- Hook Lift Patcher: DA-3HL, DA-4HL, DA-5HL, DA-6HL

## OPTIONS

- Side-discharge Auger
- Secondary Auger Motor
- Rear and Side Hopper Spoils Bin
- Heat Systems: LPG Radiant Air, Diesel Radiant Air, Electric Only with On-board 12 KW Generator



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## VARIETY OF **MODELS** TO MAKE YOUR CHOICE EASY



### Truck Mounted Patcher

Our top of the line, fully equipped asphalt patcher. Permanently mounted on any chassis. One machine for all of your year-round patching needs. Available with a variety of options and container capacities to meet your exact specifications.



### Hook Lift Patchers

Turn your hook lifting equipment into an asphalt patcher. PB Hook Lift models are completely equipped and allow for simple one-person, in-cab operation. Easy to load on and easy to load off. PB Hook Lift patchers can fit any existing hook lift system on the market. Available with all the options and features of a truck-mounted patcher.



### Dump Body Slip-in

Converts an existing dump body into a patcher! Completely self-contained. Slides into a dump body within minutes. The perfect solution for cities and towns that do not regularly perform patching operations.



### Trailer Models

PB Trailer Patchers provide another convenient way to handle patching operations. Hook up the trailer to a dump truck or pick-up truck. Equipped with all the standard features you need.



# PB Model BC-1.8 Asphalt Patcher

- Low Impact Fleet Model
- Higher Efficiency
- Lower Labor Expenditure

This innovative truck pothole patcher was designed with the budget-conscious municipality or contractor in mind. One of the most compact units currently available on the market, the BC-1.8 is designed for a lean 19,500lb (GVW) chassis. It still has a potential asphalt payload of up to three tons, and boasts many of the same features of much larger models.



## PB Patchers Offer These Proven Features

- All Hydraulic Operation
- Fully Insulation Container
- Radiant Heat System
- Adjustable Thermostat and Automatic Ignition
- Convenient Controls
- Available with Kevlar or Steel Chain Conveyor

## Many Optional Accessories to Choose From

- Pump or Air Compress Emulsion Spray Systems
- Spoils Bins
- Compactor Lift Platform
- Tool Baskets and Boxes
- Hose Reels
- Solvent Spray Wand
- Cab Controls
- And many more - contact us for details



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# PB Model B-1.5 Asphalt Patcher

- Low Impact Fleet Model
- Higher Efficiency
- Lower Labor Expenditure

This innovative asphalt patcher was designed with the budget-conscious municipality or contractor in mind. The most compact unit currently available on the market, the B-1.5 is designed for a lean 19,500lb (GVW) chassis. It still has a potential asphalt payload of up to three tons, and boasts many of the same features of much larger models.



## PB Patchers Offer These Proven Features

- All Hydraulic Operation
- Fully Insulation Container
- Radiant Heat System
- Adjustable Thermostat and Automatic Ignition
- Convenient Controls
- Two Full Width Rear Doors and Double Acting Hoist

## Many Optional Accessories to Choose From

- Pump or Air Compress Emulsion Spray Systems
- Spoils Bins
- Compactor Lift Platform
- Tool Baskets and Boxes
- Hose Reels
- Solvent Spray Wand
- Cab Controls
- And many more - contact us for details



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# Truck Mounted Emulsion Sprayer



PB LOADER CORPORATION

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Fresno, CA 93722-5024

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Email: [sales@pbloader.com](mailto:sales@pbloader.com)

# PB Truck Mounted Emulsion Systems Specifications



## BH-153-21 PUMP EMULSION SYSTEMS

**CAPACITY:** 132 gallons emulsion; 21 gallons solvent

**HEATING:** Truck cooling system, 110 VAC overnight heater

**FILTRATION:** Y strainer, inlet basket strainer

**PUMP:** rotary, 20 GPM @ 50 PSI; driven by truck hydraulic system

**WAND:** Five feet with atomizing nozzle

**HOSE:** 25 feet

### OPTIONS

Model 205-28: 177 gallons emulsion, 28 gallons solvent

Model 45-10: 35 gallons emulsion, 10 gallons solvent

Model 60-6: 24 gallons emulsion, 6 gallons solvent

**Other capacities available**

- 10" x 14" Clean out port
- LPG thermostatic heating
- distributor spray bars
- insulated tank
- hose reels
- recirculation system



## 65-CS PRESSURE EMULSION SYSTEMS

**CAPACITY:** 50 gallons emulsion

**HEATING:** Truck cooling system

**FILTRATION:** Y strainer, inlet basket strainer

**PUMP:** Truck air compressor system with 15 gallon auxiliary reservoir

**WAND:** Five feet with atomizing nozzle

**HOSE:** 25 feet

### OPTIONS

Model 144-CS: 133 gallons emulsion

Model 220-CS: 200 gallons emulsion

Model 45-CS: 30 gallons emulsion

- 15 gallon solvent tank
- 110 VAC overnight heating
- distributor spray bars
- insulated tank
- hose reels
- dual spray wand (emulsion and air)

