

# MACK WATER TRUCK

## DESCRIPTION

**LIGHTLY USED** - This is a heavy duty, Mack GU813E truck with Klein K-400, 15000-liter water tank.

The K-400 tank design is a trapezoid patented design creating a lower center of gravity, thus making the truck more stable, safer and giving it better traction on the road. In addition, it is a safer design as the driver has much better visibility to the rear of the unit. This design improves the longevity of the tank, as the flow of material and impact on internal components is reduced drastically.

The truck is also fitted with a Hydraulic Multi-Lift XR-2156.



ID	13C-LM01
MACK TRUCK CHASSIS	
CHASSIS OEM	MACK Truck
MODEL	GU813E
VIN No.	1M2AX18C6JM042389
YOM	2018
ENGINE MODEL	MP8-400C
ENGINE SERIAL No.	MP8-1190972
ENGINE	12.7L L6 Diesel
TRANSMISSION	TMD 12AD-HD mDRIVE
BRAKES	Air
L x W x H (cm)	973 x 305 x 353
GROSS WT (KGS)	15,739
KILOMETERS	11,300
HOURS	1774

KLEIN WATER TANK	
TANK OEM	KLEIN
MODEL	K-400 Steel Tank
CAPACITY (L)	15000
EMPTY WT (KGS)	2572
L x W x H (cm)	455.9 x 259.1 x 174.0
KLEIN CENTRIFIGAL PUMP	KP3H
FLOW (GPM)	900
PSI	70 max
INLET / OUTLET (mm)	101.6 AV / 88.9 AV



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# MACK WATER TRUCK

## CHASSIS SPECIFICATIONS

### ORDER/CUSTOMER/VEHICLE INFORMATION

Initial Registration Location,  
Ecuador Language, Spanish  
Type Of Service, Commercial  
Vehicle Application Class, Heavy Vocational - Unlimited Operation On  
... Vehicle Type, Straight Truck With Trailer  
Vehicle Use And Body/Trailer Type, Service/Utility. . . On/Off  
Hwy 110000# (49895 Kg) Gcw Rating  
Brake - Stopping Distance, Stopping Distance 94M  
(310FT) File Status, Quote  
Price Book Level, 2018B Price Book Level  
Product Type, Product Type - CML64R  
Truck Product Class, Product Class 28  
Back Office Process, Back Office Process

### OPERATING CONDITIONS

Topography, Grades <6% Greater Than 98% Of Driving Distance Max  
... Transportation Cycle, Vocational  
Road Condition, Very Badly Maintained Roads Or OFF-ROADS <5%  
... Ambient Temperature Upper Limit, Ambient Temperature Hot. ...

### BVS

Chassis (Base Model), GU803 6-WHEEL Truck  
Chassis Packaging Solutions, Package 8A Includes: Battery Box LH ...

### ENGINE/TRANSMISSION/CLUTCH

Engine, Euro 3, Mack MP8-400C 400 Hp @1500-1950 Rpm (Peak) ...  
Transmission, 12 Speed Automated Manual, Mack TMD12AD-HD ...  
Clutch, Self Adjusting, CLS43B-O Meritor/Sachs, Single Plate 17", ...

### EXHAUST/EMISSIONS

Dpf, W/O Diesel Particulate Filter Or Scr  
Exhaust, Exhaust - Euro 3/EURO 4, Single Vertical Exhaust With ...  
W/O Bright Finish Exhaust

### ENGINE EQUIPMENT

Air Compressor, Meritor/Wabco 636 (37.4 CFM)  
11" Single Element Donaldson Steel: Severe Service/High  
Dust W/O Inside/Outside Air Intake  
Alternator, Delco 12V 130A (24SI) BRUSH-TYPE  
Batteries, (3) Mack 12V M/F Group 31 650/1950 CCA Threaded Stud ...  
Bug Screen, Black Aluminum Mounted Behind Grille  
Texaco Long Life Engine Coolant #7998 With Nitrites (50/50 Mix) To ...  
Omit Coolant Conditioner Filter  
Engine Brake, Engine Brake Plus Exhaust Pressure  
Governor Engine Block Heater, W/O Engine Block Heater  
Fan Drive, Behr Fan And Electronic Modulating Fan Drive  
FUEL-WATER Separator, Racor Fuel Filter 1000 Fh NON-HEATED  
Hoses - Radiator/Heater, Mack Brand Epdm Radiator & Heater  
Hoses Oil Pan, Oil Pan  
Oil Change System, W/O Oil Change  
System W/O Engine Cold Start Aid  
Tether Device, W/O Tether Device

### ENGINE EQUIPMENT cont...

### TRANSMISSION EQUIPMENT/DRIVELINES

Clutch Assist (Air), Information Is Not Required  
Clutch Pedal, W/O Clutch Pedal  
Clutch Release Hose, W/O Lubrication Fitting Option  
Clutch Starting Switch, W/O Clutch Starting Switch Option  
Mdrive - Grade Gripper, Grade Gripper  
Mdrive - Mackcellerator, Mackcellerator Enable  
Mdrive - Parker Pump, F1-101R Parker Piston Pump - Rear Of Mdrive ...  
Transmission Shift Settings, Mack Mdrive - Enhanced Construction ...  
Transmission PTO1 Splitter Range, PTO1 For Splitter Range - High  
Transmission PTO2 Splitter Range, PTO2 For Splitter Range - High  
Transmission Bell Housing, Aluminum  
W/O Transmission Dipstick For Allison  
W/O Transmission Dustproofing  
Mack Mdrive Transmission Oil Cooler Mtd LH Side Oil To Water ...  
W/O Neutral Control  
Synthetic Lubricant - Transmission, 75W - 90 (Synthetic Lubricant)  
Vocational Package - Allison, W/O Electronic Trans Package Option  
Driveshaft Guard For Center Bearing  
Driveline - Main, Spicer SPL250XL "EXTENDED Lube SERIES"  
Driveline - Interaxle, Spicer SPL170XL Extended Lube Series

### CAB (A thru G)

Blend Air Hvac  
Air Restriction Monitor (Intake), Air Restriction Monitor (Displayed In ...  
W/O Aux Lamp Provisions  
Switch In Dash With Wiring Routed To Cab Roof, Above LH+RH ...  
Bug Deflector - Hood Mounted, W/O Bug Deflector Option  
Cab Configurations, LH-DRIVE CA68 Conv Cab  
Without Cab Cleanout  
W/O Cab Fan, Aux Air Circ Option  
Cab Mounting, Air Suspension  
Certified Weight  
Two (2) Extra Dash Mounted Illuminated Toggle Switches  
Engine Running Activated  
(4) Dome Lamps - Door And Switch Activated  
Fender Extensions, Fender Extensions  
W/O Fire Extinguisher Option  
Floor Covering, Polyurethane Floor Mat  
Gauge Cluster, Standard Package And Transmission Oil ...  
Without Rear Axle Oil Temperature Gauge  
W/O Inside/Outside Temp Gauge Option  
Gear Shift, Mdrive - Premium  
Bright Finish Exterior Cab Grab Handles, Black Finish Grab Handle ...  
Grille - Hood Air Intake, Bright Finish Grille  
Grille, Bright Finish Bars With Bright Finish Surround Grill Mounted

### CAB (H thru R)



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## CHASSIS SPECIFICATIONS

### CAB (H thru R) cont...

Headliner, Vinyl Covered Foam Padded Headliner  
Hood And Fenders, Composite Material  
Painted Hood Latches  
Horn - Electric, Dual Tone (Two Horns)  
Identification/Clearance Lights, (5) Marker And Clearance, ...  
IN-DASH Storage, W/O Upper Storage Option  
Instrument Cluster Display, CO-PILOT Driver Display (Enhanced ...  
Instrument Panel, Charcoal Gray  
Interior Trim (Purebred - Sandstone) Vinyl Headliner & Seat ...  
W/O Electronic Keyless Entry  
Mirrors - Exterior, West Coast, RH & LH Bright Finish Mack Bulldog ...  
Mirrors - Convex Type Hood/Fender, Without Convex Type  
Mirrors - Convex Type, Bright Finish, LH & RH 8.0" Dia Heated; ...  
Mirrors - Proximity, Rect Convex Above RH Door Window  
Overhead Console, (2) Storage Compartments And Net Retainers ...  
W/O Personalized Name Plate  
Am/Fm Premium Stereo, CD-PLAYER, MP3, Weatherband, ...  
Power Leads (5-WAY Binding Posts For Cb Radio) In Header Console  
W/O Remote Cb Radio  
Radio Antenna - Cb, Prep Kit For Mounting On Lt Side Mirror (W/O ...  
Radio Shutoff, W/O Auto Radio Shutoff Option  
Rear Window (Fixed Type)  
Reflector Kit, W/O Reflector Kit Option

### CAB (S thru Z)

Seat - Driver, Bostrom Talladega 915 (HI-BACK) Air Suspension  
Seat - Rider, Extended, NON-SUSPENSION With Seat Belts (2)  
Seat Arm Rests, Inboard Mounted Arm Rest, Driver's Seat Only  
Seat Covering, All Vinyl Driver & Rider Seats  
Seat, Dust Cover For Driver's Seat  
Lap And Shoulder For Driver And Outboard Rider And Lap Belt For ...  
Audio, Visual Seat Belt Reminder With Timer Information Broadcast ...  
W/O Roof Vent Ventilation  
Starter Switch, Key Type  
Steering Column, Adjustable Tilt Telescope  
Steering Wheel, Two Spoke Urethane Grip Painted Spokes  
Storage Pouch Rear  
Sun Visor, Exterior, Fiberglass (Cab Color) Sun  
Visor - Interior, Both Sides (Padded Vinyl)  
Turn Signal Switch, Self Cancelling Turn Signals  
Window Controls, Power Window Lift With Electric Door Lock, LH & ...  
Windshield, 2-PIECE Windshield  
Windshield Washer Reservoir, W/O Windshield Washer Option

### FRAME EQUIPMENT/FUEL TANKS

Bumper - Front, EXT.-SWEPT BACK-STEEL Channel 122.5"/3112 ...  
Crossmembers, Boc And Intermediate(S) Steel Hd BACK-TO-BACK ...  
Hd Rear Crossmember, With Provision For Local Installation Of ...  
Crossmember (Behind Rear Axle), One Steel I-BEAM  
Fifth Wheel, W/O Fifth Wheel  
Without Fifth Wheel Mounting Angles  
Flaps - Mud (Rear), W/O Rear Mud Flaps  
Front Frame Extension, 6" Bolt On Frame Extension  
Mud Flap Brackets, Omit Mud Flap Brackets

### FRAME EQUIPMENT/FUEL TANKS cont...

Radiator Guard, W/O Radiator Guard  
W/O Tapered Frame Rail Ends  
Tool Box, W/O Tool Box  
Towing Device - Front, Hooks  
Towing Device - Rear, W/O Rear Towing Device  
Fuel Tank - LH, 88 Gallon (333 L) Steel Round  
Fuel Tank - RH, Omit RH Standard  
Fuel Tanks - Bright Finish, W/O Special Finish Fuel Tank  
Standard Finish Steps And Bright Finish Straps - Fuel Tank  
W/O Def Tank  
W/O Def Tank Cover  
W/O Fuel Line Option  
W/O Filler Neck Screen Option  
Lockable Fuel Tank Cap  
W/O Isolated Tank(S)

### FRONT AXLE/EQUIPMENT/TIRES

Front Axle, 20000# (9072kg) Mack FXL20 Wide Pivot Center Straight ...  
Tires Brand/Type - Front, Bridgestone - Tubeless Radial Ply, (2) ...  
Wheels - Front, Steel Disc (10-HOLE)  
(2) 22.5x9.0 (228 mm) Hayes Lemmerz 10-HOLE Hub Piloted (11 ...  
Brakes - Front, Meritor "S" Cam Type 16.5" X 6" Q+  
Brake Drums - Front, Cast Outboard Mounted  
Hubs - Front, Ferrous  
Slack Adjusters - Front, Haldex - Automatic  
Springs - Front, Mack Multileaf Hd 20000# (9072kg) Ground Load ...  
Spring BUILD-UP, W/O Spring BUILD-UP  
Steering, TAS66+RCH60 Trw Power  
W/O Front Wheel Guard Option  
Wheel Lugwrench (Includes Handle)

### REAR AXLE/EQUIPMENT/TIRES/RATIOS

Rear Axle/Suspension, 46000# (20866kg) Mack S462 Cast Ductile ...  
4S/4M System Rear Wheel End Sensors  
Tires Brand/Type - Rear, Bridgestone - Tubeless Radial Ply, (8) ...  
Carrier/Ratio - Rear Axle, CRDP1501/1511 With Interwheel Power ...  
Wheels - Rear, Steel Disc (10 Hole)  
(8) 22.5x8.25 (210 mm) Hayes Lemmerz 10-HOLE Hub Piloted (11 ...  
Brakes - Rear, Meritor - Cam 16.5"x8 5/8" Q+  
Brake Drums - Rear, Cast Outboard Mounted  
W/O Lube Pump And Filter  
Hubs - Rear, Ferrous  
Power Divider Lockout With Warning Light And Buzzer (Includes In ...  
Heavy Duty Urethane Shock Insulators Highly Recommended with ...  
Slack Adjusters - Rear, Haldex - Automatic  
Suspension - Height Control Kit, W/O Air Suspension Height Control  
Air Suspension Dump Warning, Without Air Suspension Dump ...  
Spring Brake Chambers - Quantity, (4) Double Diaphragm Type, ...  
Rear Spring Brake Chambers 30/30 Type  
Synthetic Lubricant - Rear Axle, Factory Option Lube Rear Axle  
Transverse Torque Rod (Rear Axle Only)  
W/O Traction Differential  
W/O Protective Nylon Spacer Between Discs Wheel To Drum  
Standard Wheel Stud Option



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## CHASSIS SPECIFICATIONS

### REAR AXLE/EQUIPMENT/TIRES/RATIOS cont...

#### NON-DRIVE AXLES

Pusher Axle, W/O Pusher Axle  
Tag Axle, W/O Tag Axle

#### FRAME/WHEELBASE/PLATFORM

Wheelbase, 212" (5385 mm) WB 147" CA (3722 mm)  
Platform, 256" LP (6502 mm) 109" AF (2780 mm) Used With 212" ...  
Frame Rails, 11.811" X 4.13" X .44" (300 X 105 X 11.1mm) Steel ...  
Frame Reinforcement - Inside, W/O 5MM Inside Channel ...  
Rust Prevention, W/O Rust Prevention

#### AIR/BRAKE

Air Dryer, Meritor/Wabco Heated Air Dryer, 1200 With Coalescing Oil ...  
Air Reservoirs, Steel  
ANTI-LOCK Brake System, Bendix With Traction Control  
Air Control Valves - Vendor, Bendix Switches And Valves Where ...  
Drain Valves, Manual (Petcock) Drain Valves On All Tanks  
Increased Air Capacity, W/O Increased Air Reservoir Capacity  
W/O Trailer Access Package

#### TRAILER CONNECTIONS

Trailer Air Connections, Trailer Air Brake Connections, End Of Frame  
Without Hose Tender  
W/O Trailer Air Hoses  
W/O Trailer Electrical Cable  
Trailer Electrical Receptacle, Single 7 Pins Std Sae Type, End Of ...  
Omit Trailer Connectors Holder

#### ELECTRICAL

BACK-UP Alarm, Ecco BACK-UP Alarm 575 Constant Sound Level ...  
Flaming River Rotary Control With Handle Wired On Negative Side  
W/O Battery Shock Pads  
Dash Mtd, Indicator Body/Hoist Up "BODYBUILDER LAMP"  
Chassis & Power Harness With Heavy Duty Casing  
"BODY LINK" Iii With Cab PASS-THRU  
Emergency Start Studs, Battery Box Mtd  
W/O Bumper Auxiliary Lamps  
Rear Lighting, Furnish Rear Lighting

Trailer HOOK-UP Light, W/O Cab Mtd Trailer Hookup Lamp  
Work Lights, Rh/Lh Led Work Light (Steps & Ground) On Both Sides ...

#### PAINT

Paint - Cab Exterior, Single Color, Mack White (High Gloss)  
First Color  
Same As First Color - Sun Visor  
Same As First Color - Hood  
Paint - Chassis Running Gear, Mack Black (Urethane)  
Paint - Bumper, Same As Chassis Running Gear  
Paint - Fuel Tank, Same As Chassis Running Gear

#### PAINT PROCESS CODES

Same Color As Chassis Running Gear (5ZB-A1X)  
Chassis Running Gear - Std Color (Mack Black) (6AB-Z1X)  
Same Color As Chassis Running Gear (7HB-A1X)  
W/O Custom Paint For Hub&drum/Spokes (5YB-Z1X)  
W/O Custom Painted Front/Rear Rim/Wheel (6BB-Z1X)

#### PTO/SPECIALTY/ADDITIONAL EQUIPMENT

PTO - Crankshaft Adapter, W/O Front End PTO Drive  
PTO - Rear Engine (Repto), Without Rear Engine Power Take Off  
PTO - Rear Mounted, Rear PTO Trans., Double, 2 DIN-CONN. Pump ...  
PTO - Control, W/O PTO Control  
W/O Trans Torque Converter  
W/O Special Decals  
Additional Horometer

#### V-MAC IV PROGRAMMABLE PARAMETERS

Daytime Running Lights Without Override Switch  
Fuel Economy Incentive For Use With Instrument Cluster Display ...  
Governor Settings For Use With Automatic Transmissions

#### DEALER INFORMATION

Tachograph And Underrun And I/F To Bb  
Docs Fee

#### ESTIMATED WEIGHT TOTAL(s)

Front 9665#, Rear 9552#, Total 19217#



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# MACK WATER TRUCK

## TRUCK PICTURES



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# MACK WATER TRUCK

## TANK SPECIFICATIONS

### DESIGN

Trapezoid Patented Design has a lower center of gravity, thus making the truck more stable, safer and giving it better traction on the road. In addition, it is a safer design as the driver has much better visibility to the rear of the unit. This design improves the longevity of the tank, as the flow of material and impact on internal components is reduced drastically.

### TESTING

Tank was air pressure tested at 0.17 bar (2.5 pounds per square inch) above atmosphere pressure, with no leaks.

### CONSTRUCTION

Constructed of minimum ASME 3/16" (4.8mm/7-gauge) thick heavy A36 prime steel plate.

### BULKHEADS

Flanged bulkheads welded 100% inside and outside for superior tank strength and durability.

### BAFFLES

PFC-Precision flow control baffling and load stabilization system provides five (5) heavy-duty baffles. This includes two (2) transverse flanged baffles with crawl hole and three (3) flanged longitudinal horizontal baffles. One (1) in each compartment 3/4 height.

### FILL PIPE

2.5" (63.5mm) Water (Hydrant) Fill pipe.

### MANHOLE

One (1) 30" (762mm) round A36 Steel manhole with removable safety screen. Hinged manhole cover and pressure vent included.

### SUB-FRAME

1 Heavy-duty sub-frame pan with cross member supports and double plate at tank skin bottom intersection. Flexible, heavy duty mounting hardware kit includes springs, grade-8 steel bolts hardware, brackets and 1" x 3" (25.4mm x 76.2mm) 80-duro body mount cushion. Two (2) brackets located in the front and two (2) brackets located at the rear. Front brackets, one on each side of tank, contain two (2) springs each to give flexibility between truck and tank in order to extend life of tank structure.

### ACCESS LADDER

Access ladder with non-slip rungs

### FENDERS

Full fenders, tank integrated type. Four (4) mud flaps included. Anti-sail brackets on mud flaps.

### LIGHTS

Light group: stop, tail, turn and marker/ID sealed rubber mounted style LED lights. Square Tubing to Protect the Wiring.

### LIFTING RINGS

Four (4) heavy-duty tank mounted lifting rings included.

### BUMPER

Bumper, rear of truck frame mounted. Full-width type. Under-ride protection included. Tube construction with light recessions.

### COATING

"Coated 100% inside of tank with KPC Coating (Klein Protective Coat). This red oxide product is a 2-part epoxy; spray applied coating and lining system. It shows great chemical and abrasion resistance. Excellent anti-corrosive properties. Note: Level of rust control is equal to commitment to proper maintenance of interior of tank

### PAINT

Exterior of tank prepped, primed and painted with Urethane paint



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# MACK WATER TRUCK TANK SPECIFICATIONS

## INTERIOR COATING

Klein Flexcoat Elastomeric Polyurethane. This is a solid; spray applied, aromatic polyurethane coating and lining system.

## CONTROLS

Control panel installed in cab.

## PUMP SYSTEM FEATURES

Klein KP3H 900-GPM, 70-PSI maximum capacity 4" (101.6 mm) AV inlet x 3.5" (88.9 mm) AV outlet centrifugal, hydraulically driven pump. Includes:

- Hydraulic motor, oil lubricated bearing with shock/stress resistant design.
- 50 Gallon (189 L) Hydraulic reservoir
- Hot-Shift PTO
- Removable suction head
- Suction pipe includes anti-vortex cross.
- Pressure manifold installed using flexible coupling ensuring easy pump maintenance
- Suction inlet strainer included

## DISCHARGE EQUIPMENT FEATURES

- One (1) 2" (50.8 mm) and one (1) 3/4" (19.05 mm) outlet with ball valves
- One (1) 2" (50.8 mm) emergency gravity discharge with quarter turn ball valve located at drain area rear of tank.
- All piping minimum ANSI Schedule 40 Steel piping of suitable size for pump flow capacities.

## LIQUID LEVEL

- Two (2) Sight Liquid Level tubes included. One on the front of the tank and one on the rear of the tank.
- Liquid Level Indicator, Electronic: Tank mounted electronic probe sends electric signal to cab mounted mechanical needle gauge. Gauge indicates level of liquid in tank.
- Automatic water shut-off (low water level)

## SUCTION LOADING SYSTEM

Suction loading valving and piping arrangement enables operator to change from tank unloading to tank suction loading utilizing one common tank mounted pump. 3" (76.2 mm) inlet valve, self-priming kit and complete piping included. Suction loading hose kit includes two (2) sections of non-collapsible 3" (76.2 mm) diameter x 120" (3048 mm) long heavy-duty hard-sides, suction hoses. Quick couplings, foot valve and tank valve. Tank mounted carriers are located within structure of the tank body. Approx. suction capacity is 500 GPM to 650 GPM using the 20' hose at a 45-degree angle. (140-feet / 40 meters head)

## REAR SPRAY BAR

Rear spray bar includes two (2) individually controlled fan type sprays. Sprays shall be fully adjustable for volume and pressure and direction of discharge.

## MANUAL HOSE REEL

Manual Rewind Hannay Hose Reel # 34074471. 50'-0" (15240mm) of 1-1/2" (38mm) smooth bore rubber hose, adjustable nozzle on/off and fog to straight stream, inlet valve and hose, mounting brackets. Installed and tested on customer vehicle. Approx. 50-80GPM pressure discharge.

## TURRET MONITOR

Water Cannon, K-Pro-A remote controlled turret monitor. Remote controlled for direction and cab controls for water control valve on/off. Brass adjustable fog to straight stream 500GPM nozzle included. Straight Electric actuated single point joystick controller located in cab. 92-degree horizontal movement and 45-degree vertical movement.

## EMERGENCY PARTS KIT

Include one (1) Pump Rebuilt Kit, two (2) valve/spray head assemblies, six (6) Disc Retainer Assemblies, twelve (12) diaphragms, twelve (12) disc seats, twelve (12) valve springs, eight (8) valve cover bolts, two (2) 3" AV Couplings with Gaskets, two (2) 4" AV Couplings with Gaskets and two (2) Toggle switches for the control panel. To be shipped loosely along with Tank. Some parts may change depending on final tank assembly



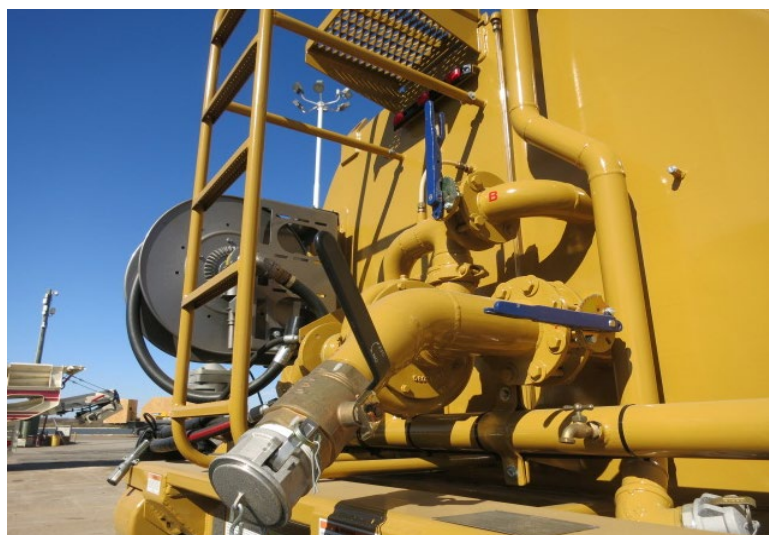
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# MACK WATER TRUCK

## TANK PICTURES



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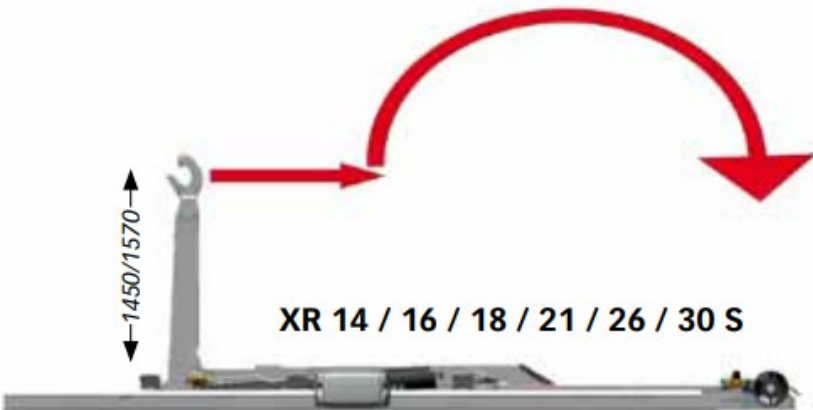
## MULTILIFT HOOKLIFTSYSTEM

### MULTILIFT XR21S.56 CLASSIC

This Mack Water Truck comes equipped with a MultiLift hydraulic lift so that the water tank can safely and efficiently be demounted from the truck.

- Hydraulic Hooklift Multilift XR-21.56 Classic
- Capacity of 50,000 lbs
- Can take containers (or other type of equipment) from 18 feet to 22 feet
- Dumping angle of 53° (when in that mode)
- Hook height of 61 7/8" and the frame height is 7 1/4"
- Lock system between front and frame with automatic release
- Mechanical body lock
- Control box with wire to control the operation of the Multilift inside or outside the cab
- Hydraulic holding valves on the lifting cylinders for security on the hose
- 20 gallons oil tank with inline filter on the return line
- Weight of 5500 lb
- Hydraulic pump Sunfab SC-564D with Shaft DIN Heavy Duty 1 1/4" and 8 Splines
- PTO based on Mack Transmission
- Black paint
- Mud flaps installed
- Complete installation on the truck
- Trailer hitch (Pintle hook PH410) with 2 inking hook for safety chains

Model	Lifting and tipping capacity	Equipment length, G-Length	min. Body length	max. Body length	System weight	GVW of the vehicle
XR21S.56	21000 kg	5560	4500 mm	6600 mm	2500 kg	25-26 t



# MACK WATER TRUCK

## PLANATARY HYDRAULIC WINCH AND TOOLBOX

### PLANATARY HYDRAULIC WINCH SUPPLIED BY MULTILIFT

15,000 lb capacity (empty drum) including the cable tension guide and roller. Cable of 100 feet long, 3/8" diameter with hook. Hydraulic control valve, installed at the back of the truck. A selector valve provides the operator the choice to use the Multilift or the winch. Installation at the back of the truck inside the frame with hydraulic hoses.



### ALUMINUM TOOLBOX

Aluminum tool box with 2 doors, installed (driver side) 48" X 24" X 24" with supports





**APPENDIX A**  
**MACK WATER TRUCK**  
**TRUCK STICKERS**




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MANUFACTURED BY / FABRIQUE PAR:				MECANO ALCA INC.			
TYPE: TRU / CAM		V.I.N. / N.I.V. : 1M2AX18C6JM042389		19, GASTON-DUMOULIN, BLAINVILLE TEL.: 450-437-1010			
GVWR/PNBV: 29972KG		DATE: 11 / 2017		COLD INFL. PRESS. / PRESS. DE GONF. À FROID			
GAWR / PNBH:		TIRE / PNEU		RIM / JANTE		PSI / LPC    KPA    S/S OR/OU D/J	
FR/AV:	9072    KG	315/80R22.5 (L)	22.5 X 9.00	130 P.S.I.	900 KPA	SING. / SIMP.	
INT 1:	10400    KG	11R22.5 (H)	22.5 X 8.25	120 P.S.I.	830 KPA	DUAL. / JUM.	
INT 2:	KG						
RR/AR:	10400    KG	11R22.5 (H)	22.5 X 8.25	120 P.S.I.	830 KPA	DUAL. / JUM.	



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THIS VEHICLE WAS MANUFACTURED FOR EXPORT OR  
SPECIAL APPLICATION. USE ON PUBLIC STREETS,  
ROADS, AND HIGHWAYS OF THE UNITED STATES AND  
ITS TERRITORIES OR CANADA IS ILLEGAL. 84811600

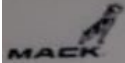
**MACK TRUCKS, INC.**  
Macungie, PA, U.S.A.  
MODEL NO.: GU813E

**SEQ. NO.: G171113059**  
**VIN: 1M2AX18C6JM042389**



**84811604**





MANUFACTURED BY MACK TRUCKS, INC. SOLELY FOR  
OFF HIGHWAY USE.

DATE: 11/2017  
 FRONT AXLE GAWR: 9072 KG  
 1ST INT. AXLE GAWR: 10400 KG  
 2ND INT. AXLE GAWR: 0 KG  
 3RD INT. AXLE GAWR: 0 KG  
 REAR AXLE GAWR: 10400 KG  
 GVWR: 29872 KG

25121



ENGINE MODEL MP8 400 EC01  
 PROP. VERSION: 21081292  
 MAX. TORQUE: 2000 Nm  
 RATED POWER: 400/294 hp/kW  
 RATED POWER SPEED 1800 rpm  
 DISPLACEMENT: 12.8 litre  
 LOW IDLE 550-700 rpm  
 EXHAUST BRAKE VEB

Engine manufacturer Volvo Powertrain Corporation

21097030

VIN#:



1M2AX18C6JM042389

GROSS WT: 18820 lb



18820

axle Wts: Front 10180 Rear 8640

Factory Certified Weight

(Minimal Fuel & Before Body Builder Modification)

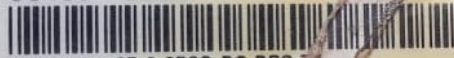
FMCSA Data Located on Filneck

CAPACITY LIQUID USABLE  
 US GALLONS 053 047

PART NO.  
 21612575



INTERNAL PART NO.  
 98189-0000



VOL 22C-35.0 053G DS BPS 71

SERIAL NO.  
 V101775369

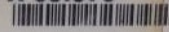


MFG DATE 10/17  
 MFG BY 40943



MFG FOR 3420102

BLANK C - 11.811  
 32.00 X 68.875



TEARDROP  
 97682-0300



**APPENDIX B**  
**MACK WATER TRUCK**  
**400C ENGINE SPECS**



**YOU MINE. WE SELL.**

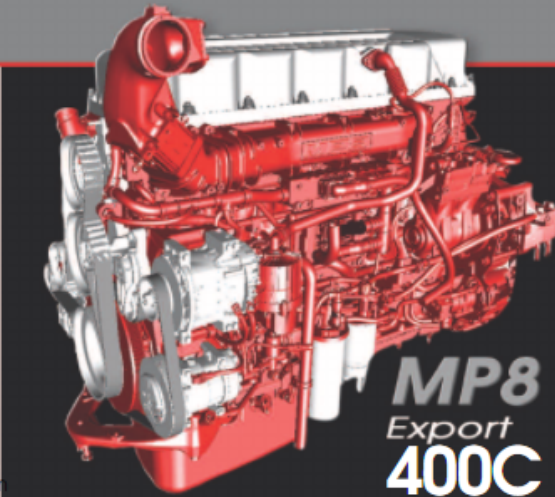
+1 (530) 534-7965  
[info@amking.com](mailto:info@amking.com)



# MACK ENGINE

## Features

- High Torque MAXICRUISE™ Diesel Engine
- Maximum Horsepower 400 BHP [298 kW]
- Electronic Unit Fuel Injection with Rate Shaping
- V-MAC IV Total Vehicle Electronics System
- Wide Operating Range 1200-1950 RPM
- Chassis Mounted Charge Air Cooled
- Extended Service Intervals
- MACK PowerLeash Engine Brake
- Emissions: Euro-3 Compliant



## V-MAC IV® Functions

4th Generation Vehicle Management And Control System

### V-MAC IV PRODUCTIVITY FEATURES:

PTO (4) and Electronic Hand Throttle Control  
 Engine "Smart Fan Control"  
 Integrated Sleeper Low Voltage Disconnect †  
 "Smart Idle" Speed Regulator  
 GuardDog Routine Maintenance Monitoring †

### V-MAC IV DRIVER CONVENIENCE FEATURES:

Full Featured Cruise Control  
 Cruise In Brake Engine Brake Control  
 Programmable Engine Governor Type  
 Idle Cooldown  
 Daytime Running Light (DRL) Override †

### V-MAC IV FUEL ECONOMY FEATURES:

Vehicle Speed Limiting

Engine "Sweet Spot Indicator"  
 Fuel Economy Incentive Program  
 Idle Shutdown  
 Integrated Temp-A-Start †

### V-MAC IV RELIABILITY FEATURES:

Engine Protection  
 Starter Protection  
 Differential Lock Auto Control

### V-MAC IV FLEET MANAGEMENT FEATURES:

DataMax Comprehensive On-Board Data Logger  
 InfoMax PC Fleet Management Software

### V-MAC IV SAFETY AND SECURITY FEATURES:

Speed Sensor Tamper Resistance  
 Theft Deterrence  
 5th Wheel Slide Unlocked Vehicle Speed Limiting  
 Air Suspension Deflated Vehicle Speed Limiting

### V-MAC IV SERVICEABILITY FEATURES:

SAE J1587 and J1939 Diagnostic Port  
 Electronic Fault Logging with Fault Reporter  
 VCADS PC Based Service Software

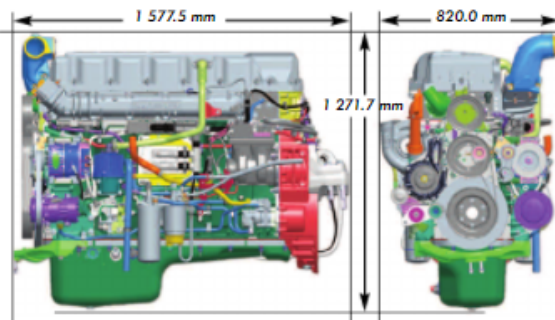
† Denotes an available option.

## Specifications

Peak HP (kW) @ RPM . . . . . 400 (298) @ 1500-1950  
 HP (kW) @ Governed RPM . . . . . 358 (267) @ 1950  
 Max. Torque lb. ft. (N•m) @ RPM . . 1,460 (1 979) @ 1200  
 Type . . . . . Direct Injection Diesel  
 Number of Cylinders. . . . . 6, In-Line  
 Bore & Stroke, in. (mm) . . . . . 5.16 x 6.22 (131 x 158)  
 Displacement . . . . . 780 (13)  
 Compression Ratio. . . . . 18.1:1  
 Firing Order. . . . . 1-5-3-6-2-4  
 Torque Rise . . . . . 51%  
 Clutch Engagement . . . . . 800 lb. ft. (1 085 N•m) @ 800 RPM  
 Idle Speeds:

Low. . . . . Adjustable; 650 RPM  
 High . . . . . Adjustable; 2100 RPM  
 Engine Brake Retarding Power . . . 435 HP (324 kW) @ 2100RPM  
 (If Applicable)  
 Weight, Dry: (Approx.) . . . . . 2,460 lbs. (1 116 kg)  
 (With air compressor, but no oil, water, starter, fan, alternator, or clutch)

## Dimensions



## Engine Specifications

Flywheel Housing ..... Die cast Aluminum  
 Cylinder Block:  
 Material ..... Alloyed Grey Cast Iron  
 Ladder Frame Reinforcement

Cylinder Liners:  
 Type ..... Full Wet Design  
 Surface Finish ..... Plateau Honed

Cylinder Head Assembly:  
 Type ..... Grey Cast Iron Slab Head With  
 Intermediate Deck  
 Single Overhead Cam  
 Configuration ..... 4 Valves/Cyl., OHV  
 Valve Type ..... Poppet  
 Valve/Insert Material ..... Super Alloy (Serviceable)

Pistons & Rings:  
 Piston Type ..... Monotherm™ Single Piece Steel  
 w/Closed Cooling Gallery  
 Pin Diameter ..... 2.125" (54 mm)  
 Rings ..... 2 Compression, 1 Oil Control

Crankshaft:  
 Material ..... Forged, Carbon Steel  
 Heat Treatment ..... Induction-Hardened Journals/Fillet  
 Main Bearing Diameter ..... 4.5" (114 mm)

Charge Air Cooling ..... Chassis Mounted, Air-To-Air  
 Fuel System ..... Delphi E3 Electronic Unit Injectors  
 w/2 Solenoid Valve Technology and Rate

Shaping  
 Fuel Supply Pump ..... ZF Meritor  
 Filter ..... Spin On, Disposable

Lubrication System:  
 Type ..... Full Pressure, Wet Sump  
 Oil Filters ..... 2 Spin-On Full Flow Disposable,  
 1 By-pass  
 Oil Cooler ..... Stainless Steel Plate  
 Total Oil Capacity ..... 36 qts. (Incl.'s. Filters)

Drain Plug ..... Magnetic  
 Cooling System:  
 Capacity ..... 17 qts. (16 L)  
 Thermostats ..... 180°F (82°C)  
 Hose Material ..... Silicone

Air Compressor:  
 Type ..... Meritor/WABCO  
 Standard Capacity:  
 Conventional Chassis ..... 18.7 cfm (8.9L/s)  
 LCF Chassis ..... 37.4 cfm (17.8L/s)

Turbocharger ..... Holset  
 Accessory Belt ..... Poly-V w/Automatic Tensioners

## Oil/Filter Service Intervals

Refer to the latest version of Mack Maintenance & Lubrication Manual TS494.

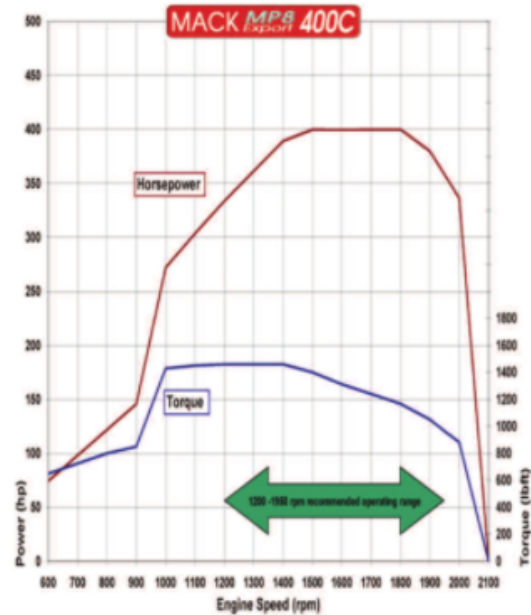
## Optional Equipment\*

High Capacity Air Compressor  
 High Capacity Alternator  
 \*\* Availability may be chassis model dependent.

## A SALES ENGINEERING PUBLICATION

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## Engine Performance



## Gear Recommendations

Proper gearing is necessary to achieve optimum vehicle performance and fuel economy. Vehicle

specifications, including engine, transmission, axle ratio, and tire selection, should generally be selected to meet the following criteria:

<b>Startability</b>	Highway Applications ..... ≥ 10%
	On-Off Highway Applications ... ≥ 16%
<b>Gradeability</b>	@ Cruise Max. MPH ..... > 0.5%
	@ Peak Torque, Top Gear ..... ≥ 1.5%
<b>Cruise RPM</b>	1500 ±50 RPM*

\*Cruise RPM = Engine speed in top gear @ Cruise Max. MPH setting. Limited to 65 MPH. At higher speeds gear truck to obtain above RPM @ 65 MPH.

Refer to the MACKTRAQ® electronic sales tool to obtain startability, gradeability and cruise RPM results for specific vehicle specifications. Special service applications, road surfaces, high GCW's or other factors may require different gearing considerations.

The information in this brochure was accurate as of the day of publication. Mack Trucks, Inc. reserves the right to make changes in specifications, equipment or design, or to discontinue models or options without notice at any time.