



1430 US Highway 87 East
Billings, MT 59101



SPECIFICATIONS

MAC LTT Mfg., Inc. DOT406 Aluminum Pull Trailer for Truck/Trailer

A General

1 Trailer Type	Aluminum elliptical drop center or straight barrel design available.
2 Overall Length	Engineering to design based on configuration.
3 Specification	DOT 406.
4 Operating Pressure	3.3 psi with 5 psi test pressure.
5 Max. Product Density	7.5 lbs. per U.S. gallon.
6 Max. Loading Temp.	150 degrees Fahrenheit.
7 Product(s)	Refined fuels; gasoline & diesel.
8 Warranty	Three year limited warranty.

B Barrel

1 Compartment(s)	Various compartments and compartment sizes available.
2 Capacity	8,000 gallons +3% outage with 60 gallon minimum. Various capacities available.
3 Baffles	5454-0 flanged aluminum baffles with large center hole, 3" holes at 9, 12, & 3 o'clock positions and large drain tunnel at bottom.
4 Shell	5454-H32 aluminum with .179" buffed sides, top and .188" mill finish bottom.
5 End Heads	5454 aluminum flanged & dished heads, buffed finish.
6 Dome Cover(s)	10" x 16" with pressure/vacuum relief vent, offset for vapor vent and optic probe.
7 Overturn Protection	Aluminum "V" extrusion on top both curbside and roadside. Dam plates at each end with 1/2" coupling and plug.
8 Overturn Protection Drain(s)	1 1/4" external poly pipe around perimeter of rear head.
9 Cleanouts	None-optional.

C Valving and Discharge Piping

1 Sump(s)	4" aluminum drain pocket at low point in each compartment.
2 Emergency Valve(s)	5" x 4" aluminum air-operated valve in each compartment.
3 Emergency Valve Operator	Toggle switches and air distributor assembly in cabinet with pressure gauge and charge valve.
4 Emergency Valve Closure	Emergency closure valve located at front of trailer on street side.
5 Piping	4" Sch. 10 aluminum piping from each compartment run to center of trailer and directed to curbside API rack.
6 Manifold	None-optional.

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7	Bottom Loading	4" load/unload heads with integral sight glass
8	Gravity Drop Adaptor(s)	Gravity drop adapters with 4" male adapters and caps
9	Sight Glass	None-optional.
10	Splash Deflector	Aluminum splash deflector per compartment over discharge valve.
11	Brake Interlock Valve(s)	Interlock bar on bottom loading heads and vapor recovery outlet
12	Pump/Suction Line	3" Schedule 10 aluminum pipe curbside from front and terminate with 3" swing hose at API area. Terminate at front with 3" butterfly valve, 3" male adapter and cap.

D Vapor Recovery System

1	Vent	Sequential 3" air operated vent in each compartment.
2	Vapor Return System	4" Schedule 40 aluminum pipe through shell to API. Terminate curbside with 4" adapter and cap.

E Overfill System

1	Overfill System	Overfill system: Overfill Monitor. Overfill probes, set at 60 gallons outage. Dual socket (optic and thermistor).
2	Bottom Probes	None-optional.
3	TIM Chip	Included.
4	Grounding Bolt	Included.
5	Overfill Controls Location	Toggles, gauges, & receptacles located curbside in 22"x22"x7" cabinet with gas shock wind stay.

F Trim

1	Document Holder	Included.
2	Capacity/Level Indicators	None-optional.
3	Static Studs	None-optional.
4	Static Cables	1/8" cable from manhole collar to bottom of tank.
5	Placards	Slide-in type placard holders (1203/1993 inserts).
6	Product Indicator(s)	8-sided rotating product indicator above each loading valve.
7	Gauge Stick	None-optional.
8	Gauge Stick Tube	None-optional.
9	Cone/Bucket Holder	None-optional.
10	Fire Extinguisher	None-optional.
11	Chain Hanger	None-optional.

G Cabinet(s) & Components

1	Cabinets/Tool Box	None-optional.
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H Hose Carrier(s)

1	Hose Carriers	(1) 7"x21' aluminum hose tube with front door and drain at rear.
2	Hose Carriers Locations	Curbside from rear to front.

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I Ladder/Platform/Walkway

- 1 Ladder Bolt-on aluminum at front with non-slip steps.
- 2 Top Walkway Non-skid tape between overturn rails.

J Fenders

- 1 Fenders-Front Ribbed aluminum, full tandem, double radius and mounted to the dolly.
- 2 Fenders-Rear Ribbed aluminum, full tandem, double radius and mounted to the rear frame.
- 3 Mudflaps MAC LTT mudflaps at rear of all fenders.

L Front Dolly and Drawbar

- 1 Turntable Double row ball bearing design.
- 2 Drawbar Fixed length with mesh cover & jack. Hinge height to match lead unit.
- 3 Drawbar Hardware (2) Double bushed hinge assemblies.
(1) Swivel eye with bushings.
(1) 1000 lb. capacity jack on driverside.

N Suspension and Undercarriage

- 1 Suspension Front: Hutch CH9700 tandem axle under mount weld-on.
Rear: Hutch CH9700 tandem axle flange mount bolt-on.
Air-ride Suspension Optional.
Various axle configurations available.
- 2 Springs (8) 2-Stage, 2-leaf springs with free play eliminator bushings.
- 3 Axles (4) 71-1/2" track with TP spindles (large bearings).
- 4 Hubs Walther EMC Dura-Light.
- 5 Drums / Rotors Fabricated steel.
- 6 Dump Valve None-optional.
- 7 Brakes/Brake Chambers 16.5" x 7" HXS. ***(Optional Air Disc Brakes)***
Service chambers on dolly.
Spring brake chambers at rear.
- 8 Slack Adjusters 5.5" automatic slack adjusters.
- 9 Seals Oil seals and hubcaps.
- 10 ABS System 2S/1M at dolly and 2S/1M at rear.
- 11 Roll Stability None-optional.
- 12 Lift Axle(s) None-optional.
- 13 Hubodometer None-optional.
- 14 Rear End Protection Device Aluminum extruded design.
- 15 Rear Underride Device None required when wheels back exemption applies.

O Tires and Wheels

- 1 Wheels 8.25 X 22.5 Aluminum buffed finish.
- 2 Tires 11R22.5 General HT, LRG.
- 3 Tire Carrier None-optional.
- 4 Tire Inflation None-optional.

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P Air and Electrical

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| 1 Trailer Connections | Gladhands and electrical mounted to drawbar. |
| 2 Light System | Trucklite LED to consist of the following components:
(3) LED tail lights in aluminum light housing per side.
(1) LED marker light per side on front fender.
(1) LED marker light per side on rear light housing (high profile).
(1) LED 3 light I.D. cluster on rear end dam plate (dual function).
(1) LED midship turn/marker per side.
(1) LED center high mount stop light at rear.
(1) LED license plate light at rear. |
| 3 Shell Mounted Clearance | None-optional. |
| 4 Backup Light(s) | None-optional. |
| 5 Work Light(s) | None-optional. |
| 6 Extra Light(s) | None-optional. |

Q Paint and Finish

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| 1 Paint | Steel parts sand blasted, primed and painted or powder coated. |
| 2 Color | Black. |
| 3 Conspicuity | DOT conspicuity reflective tape, discontinuous on centerline of shell side. |
| 4 Trim Tape | 2" trim tape on overturn rails (black is standard). |
| 5 Decals | Standard safety, DOT, warning and safety decals. |
| 6 Calibration | Theoretical calibration with charts in 1/4" increments. |
| 7 Inspections | Inspections and labels in accordance with DOT requirements. |
| 8 Tests | Standard PIKV and EPA Method 27 Vapor Test. |
| 9 Refinery Exhibits | Chevron Exhibit 'C'. |