



1430 Highway 87 East
Billings, MT 59101



SPECIFICATIONS

MAC-LTT Mfg., Inc. Aluminum 750 Cubic Foot 2-Axle B-Train Rear Semi Trailer

Company Name: Utah Tank & Trailer - Harlyn Transport

Address:

City, State & Zip:

Contact: James Logan

Phone Number:

Fax Number:

Cell Number:

Email:

Date: 11/24/2021

Model Number: BSABR-750-1-2

Quote Number: UTT.HT.BSABR-750-1-2.1

Year Model: 2023

Estimated Weight: 7,400 lbs. (+/- 3%)

A General

- | | |
|----------------------|--|
| 1 Trailer Type | Aluminum pneumatic single hopper B-train rear semi trailer (non-food grade). |
| 2 Overall Length | 28'-8" (344"). |
| 3 Capacity | 750 cubic foot. |
| 4 Overall Height | 13'-2" (158"). |
| 4 Overall Width | 8'-6" (102"). |
| 5 Operating Pressure | 15 psi. |
| 6 Vessel Finish | 5454-H32 buffed aluminum. |
| 7 Heads | 5454-H32 buffed aluminum. |
| 8 Max. Loading Temp. | 150 degrees Fahrenheit. |
| 9 Product | Dry bulk. |
| 10 Warranty | Three year limited warranty. |
| 11 Coupler Height | 48" ground to coupler surface. |

B Air Supply, Loading & Discharge

- | | |
|--------------------------|--|
| 1 Hot Air Supply | 3" sch. 10 aluminum pipe with 3" male swivel adapter on a 90° elbow facing up on streetside with spring type check valve located just behind inlet. Tee aeration at hopper area with 3" butterfly valve and spring type check valve. |
| 2 Aeration | Upper aeration to include (3) flow cones mounted to each lower hopper with stainless steel stainless steel hopper savers. Hopper to include a 2" brass ball valve on streetside to control air flow. Keep aeration cones approximately 8" above butterfly flange. |
| 3 Top Air Supply | 2" sch. 10 aluminum pipe plumbed from top of vessel in to hot air supply on streetside front of trailer. Air supply controlled with 2" butterfly valve. |
| 4 Blow Down Line | 2" sch. 10 aluminum pipe plumbed from top of vessel to streetside front of trailer. Controls to include 2" butterfly valve and cam-lock mounted 2" pop-off valve set at 15 psi. |
| 5 Manhole Type | (2) 20" cam-latch style opening towards rear of trailer with built-in lid stop. Locate (1) 50" rearward of centerline and (1) 50" forward of centerline. |
| 6 Discharge | 8" butterfly valve with remote swivel handle extension (with u-joint) attached to a low profile 4" x 8" x 4" aluminum gravity discharge tee. Terminate at front with 4" aluminum pipe angled 45° towards streetside, extended out to landing leg width. Terminate outlet with 4" male adapter and dust cap.
Note: Use steel grooved 45° elbow at front (will be the only steel part of discharge). |
| 7 Gravity Dump Discharge | Included as part of each discharge tee. |
| 8 Vibrators | None-optional. |

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Model Number: BSABR-750-1-2

Quote Number: UTT.HT.BSABR-750-1-2.1

9	Oiler (Vibrator)	None-optional.
9	Hot Air Silencer	None-optional.
C Trim		
1	Document Holder	None-optional.
2	Pressure Gauges	(2) Liquid filled 0-30 psi to indicate tank pressure and to indicate line pressure. Gauges located streetside front of discharge above fender in box.
3	Blower Hose	(1) 3" x 12' hose with female cam-lock fittings each end. Transport hook and storage coupler located at streetside front.
4	Jump Hose	None-optional.
5	Product Hose	None-optional.
6	Safety Cable	3/8" galvanized steel cable located full length on streetside.
7	Placards	None-optional.
8	Hitch	None.
9	Bumper	None when wheels back exemption applies.
10	Fire Extinguisher	None-optional.
11	Chain Hanger	None-optional.
12	Cabinet	24" x 24" x 24" box with T-handle and gas shock stay. Locate on top of rear frame between frame uprights, with door on top and hinge at front side of box (opens to front of trailer).

D Fenders

1	Fenders-Front	None
2	Fenders-Rear	Ribbed aluminum, single radius mounted to the rear frame. Set fenders at 102" wide.
3	Mudflaps	MAC LTT mudflaps at rear of all fenders. Quarter flaps at front of all fenders.

E Landing Gear

1	Landing Gear	MAC LTT aluminum drop tube style landing legs.
2	Crank Location	Streetside.
3	Frame	Formed aluminum pedestal frame.

F Upper Fifth Wheel Coupler

1	King Pin Plate	Undermount steel upper coupler.
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G Ladder/Platform/Walkway

1	Ladder	Weld-on aluminum at front with non-slip steps and grab handles.
2	Top Walkway	Non-skid tape between full length toe rails.

H Hose Carrier

1	Hose Carrier	(2) 8" x16' hose tube.
2	Hose Carrier Location	(1) Streetside rear to front. (1) Curbside rear to front.

I Suspension / Undercarriage

1	Suspension	Hendrickson AANT 23K tandem axle with 47" axle spacing.
2	Axles	(2) Hendrickson, 5.75" round, 77.5" track, "P-series" spindles, RTR.

MAC-LTT Mfg., Inc. Aluminum 750 Cubic Foot 2-Axle B-Train Rear Semi Trailer

Model Number: BSABR-750-1-2

Quote Number: UTT.HT.BSABR-750-1-2.1

3	Springs	(4) Air Springs
4	Hubs	Walther EMC Dura-Light
5	Drums/Rotors	Fabricated steel.
6	Dump Valve	Manual push/pull style located streetside at front in gauge box (disable pilot reset). Note: Special warning decal required (install on gauge box door).
7	Brakes	16.5"x7" HXS.
8	Brake Chambers	Type 30-30.
9	Slack Adjusters	5.5" automatic slack adjusters.
10	Seals	Oil seals and hubcaps.
11	ABS System	WABCO 2S/1M ABS with rear malfunction warning light at front of rear fender streetside.
12	Suspension Frame	Extruded aluminum design.
13	Roll Stability	None-optional.
14	Lift Axle	Hendrickson UBL lift kit on front axle. Axle controlled with single Sealco LSAS valve for automatic axle deploy (manual up). Include Barksdale dual ride height valve for tire clearance when raised.
15	Hubometer	None-optional.
16	Tow Loop	K-brace and fabricated type tow-loop at rear of trailer frame.

J Tires / Wheels

1	Wheels	(8) 8.25 X 22.5 Aluminum extra polished finish.
2	Tires	(8) 11R22.5 General HT
3	Tire Carrier	None-optional.
4	Tire Inflation	None-optional.

K Electrical / Wiring

1	Trailer Connections	Gladhands and electrical located at front center. Additional air and electric connections on crossmember at landing gear.
2	Light System	Truck-Lite LED system: (3) LED tail lights in aluminum light housing per side. (1) LED marker light per side at front. (1) LED midship turn/marker per side. (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) License plate light. (1) Pressure gauge light.
3	Shell Mounted Clearance	None-optional.
4	Backup Light(s)	None-optional.
5	Work Light(s)	(1) LED MWL-42 single swivel work light on streetside with separate switch. Locate near front of front frame, to shine rearward.

L Paint / Finish

1	Paint	Bare steel parts painted with SEM coating or powder coated.
2	Color	Black.
3	Conspicuity	DOT conspicuity reflective located off shell.
4	Decals	Standard safety and warning decals.



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Pricing Summary

MAC-LTT Mfg., Inc. Aluminum 750 Cubic Foot 2-Axle B-Train Rear Semi Trailer

Company Name: Utah Tank & Trailer - Harlyn Transport

Date: 11/24/2021

Address:

Model Number: BSABR-750-1-2

City, State & Zip:

Quote Number: UTT.HT.BSABR-750-1-2.1

Contact: James Logan

Year Model: 2023

Phone Number:

Fax Number:

Cell Number:

Email:

M Pricing

Dealer Price Per Unit (US Dollars):

Quantity of Units: 2

Total Price:

Note: Dealer is responsible for collection of FET. MAC LTT Mfg., Inc. does not collect FET.

N Order Acceptance/Terms

1 Freight

F.O.B.-Billings, MT Factory.

2 Quote Terms

Quote valid for 30 days.

Price subject to change based on volatility of aluminum price increases.

O Delivery

1 Delivery

Delivery determined upon signed and received order.

Order Accepted By:


Utah Tank & Trailer - Harlyn Transport

Date:

11/25/2021

Order Approved By:

MAC LTT Mfg. Inc.

Date:



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SPECIFICATIONS

MAC-LTT Mfg., Inc. Aluminum 1,300 Cubic Foot 3-Axle B-Train Lead Semi Trailer

Company Name: Utah Tank & Trailer - Harlyn Transport

Date: 11/24/2021

Address:

Model Number: BSABL-1300-2-3

City, State & Zip:

Quote Number: UTT.HT.BSABL-1300-2-3.1

Contact: James Logan

Year Model: 2023

Phone Number:

Fax Number:

Cell Number:

Email:

Estimated Weight: 12,000 lbs. (+/- 3%)

A. General

- | | |
|----------------------|---|
| 1 Trailer Type | Aluminum pneumatic two hopper B-train lead semi trailer (non-food grade). |
| 2 Overall Length | 37'-9" (453"). |
| 3 Capacity | 1300 cubic foot. |
| 4 Overall Height | 13'-2" (158"). |
| 4 Overall Width | 8'-6" (102"). |
| 5 Operating Pressure | 15 psi. |
| 6 Vessel Finish | 5454-H32 buffed aluminum. |
| 7 Heads | 5454-H32 buffed aluminum. |
| 8 Max. Loading Temp. | 150 degrees Fahrenheit. |
| 9 Product | Dry bulk. |
| 10 Warranty | Three year limited warranty. |
| 11 Coupler Height | 48" ground to coupler surface. |

B. Air Supply, Loading & Discharge

- | | |
|--------------------------|---|
| 1 Hot Air Supply | 3" sch. 10 aluminum pipe with 3" male swivel adapter on a 90° elbow facing up on streetside with spring type check valve located just behind inlet. Tee aeration at front hopper area with 3" butterfly valve and spring type check valve. Continue aeration to rear of trailer. Terminate with 3" butterfly valve and male adapter on 90° elbow facing up on streetside. |
| 2 Aeration | Upper aeration to include (3) flow cones mounted to each lower hopper with stainless steel stainless steel hopper savers. Each hopper to include a 2" brass ball valve on streetside to control air flow. Keep aeration cones approximately 8" above butterfly flange. |
| 3 Top Air Supply | 2" sch. 10 aluminum pipe plumbed from top of vessel in to hot air supply on streetside rear of trailer. Air supply controlled with 2" butterfly valve. |
| 4 Blow Down Line | 2" sch. 10 aluminum pipe plumbed from top of vessel to streetside rear of trailer. Controls to include 2" butterfly valve and cam-lock mounted 2" pop-off valve set at 15 psi. |
| 5 Manhole Type | (3) 20" cam-latch style opening towards front of trailer with built-in lid stop. Locate (1) lid on centerline and (1) each forward and rearward of centerline. |
| 6 Discharge | 8" butterfly valve with remote swivel handle extension (with u-joint) attached to a low profile 4" x 8" x 4" aluminum gravity discharge tee at each hopper. Connect each discharge tee with 4" aluminum pipe and exit rear hopper with customer supplied formed 90° aluminum discharge pipe to streetside rear, just forward of suspension. Terminate outlet with 4" male adapter and dust cap.
Note: Customer supplied pipe will require victaulic nipple welded on one end and threaded nipple welded on other end. |
| 7 Gravity Dump Discharge | Included as part of each discharge tee. |
| 8 Vibrators | None-optional. |

MAC-LTT Mfg., Inc. Aluminum 1,300 Cubic Foot 3-Axle B-Train Lead Semi Trailer

Model Number: BSABL-1300-2-3

Quote Number: UTT-HT.BSABL-1300-2-3.1

9 Oiler (Vibrator) None-optional.

10 Hot Air Silencer None-optional.

C Trim

1 Document Holder Located streetside at rear of front fender.

2 Pressure Gauges (2) Liquid filled 0-30 psi to indicate tank pressure and to indicate line pressure. Gauges located streetside rear of discharge above fender in box.

3 Blower Hose (1) 3" x 12' hose with female cam-lock fittings each end. Transport hook and storage coupler located at streetside front.

4 Jump Hose None-optional.

5 Product Hose None-optional.

6 Safety Cable 3/8" galvanized steel cable located full length on streetside.

7 Placards None-optional.

8 Fifth Wheel Holland FW35 7713-G-L Kompensator with 9.76" base with grease lines run to a common manifold.

9 Bumper None when wheels back exemption applies.

10 Fire Extinguisher None-optional.

11 Chain Hanger None-optional.

12 Cabinet None-optional.

D Fenders

1 Fenders-Front Ribbed aluminum straight. Set fenders at 96" wide.

2 Fenders-Rear Ribbed aluminum, individual single radius mounted to the rear frame. Set fenders at 102" wide.

3 Mudflaps MAC LTT mudflaps at rear of front fenders and rear of trailer. Quarter flaps at front of front fenders.

E Landing Gear

1 Landing Gear SAF Holland Mark V 2-speed landing gear with removable cushion foot.

2 Crank Location Streetside.

3 Frame Formed aluminum pedestal frame.

F Upper Fifth Wheel Coupler

1 King Pin Plate Undermount steel upper coupler.

G Ladder/Platform/Walkway

1 Ladder Weld-on aluminum at rear with non-slip steps and grab handles on side of frame and aluminum grab rails on end of uprights.

2 Top Walkway Non-skid tape between full length toe rails.

H Hose Carrier

1 Hose Carrier None-optional.

2 Hose Carrier Location None-optional.

I Suspension / Undercarriage

1 Suspension Hendrickson AANT 23K tri axle with 60" axle spacing.

2 Axles (3) Hendrickson, 5.75" round, 77.5" track, "P-series" spindles, RTR.

3 Springs (6) Air Springs

MAC-LTT Mfg., Inc. Aluminum 1,300 Cubic Foot 3-Axle B-Train Lead Semi Trailer

Model Number: BSABL-1300-2-3

Quote Number: UTT.HT.BSABL-1300-2-3.1

- | | | |
|------------------------------|-------------------------|--|
| 4 | Hubs | Walther EMC Dura-Light |
| 5 | Drums/Rotors | Fabricated steel. |
| 6 | Dump Valve | Manual push/pull style located streetside at rear in gauge box (disable pilot reset).
Note: Special warning decal required (install on gauge box door). |
| 7 | Brakes | 16.5"x7" HXS. |
| 8 | Brake Chambers | Spring brake chambers. |
| 9 | Slack Adjusters | 5.5" automatic slack adjusters. |
| 10 | Lube Type | Semi-fluid grease HXL5. |
| 11 | ABS System | WABCO 4S/2M ABS with rear malfunction warning light at front of rear fender streetside. |
| 12 | Suspension Frame | Extruded aluminum design. |
| 13 | Roll Stability | None-optional. |
| 14 | Lift Axle | Hendrickson UBL lift kit on axles #1 & #2. Both axles controlled with single
Sealco LSAS valve for automatic axle deploy (manual up).
Include Barksdale dual ride height valve for tire clearance when raised. |
| 15 | Hubometer | None-optional. |
| J Tires / Wheels | | |
| 1 | Wheels | (12) 8.25 X 22.5 Aluminum extra polished finish. |
| 2 | Tires | (12) 11R22.5 General HT. |
| 3 | Tire Carrier | None-optional. |
| 4 | Tire Inflation | None-optional. |
| K Electrical / Wiring | | |
| 1 | Trailer Connections | Gladhands and electrical located at front center. |
| 2 | Rear Semi Operation | Provisions for air/electric at rear for operation of second semi. |
| 3 | Light System | Truck-Lite LED system:
(3) LED tail lights in aluminum light housing per side.
(1) LED marker light per side on front fender
(1) LED midship turn/marker per side.
(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) License plate light.
(1) Pressure gauge light. |
| 4 | Shell Mounted Clearance | None-optional. |
| 5 | Backup Light(s) | None-optional. |
| 6 | Work Light(s) | (2) LED MWL-42 single swivel work lights on streetside. (1) located near rear of front
fender to shine rearward, (1) located at front of rear frame to shine forward.
Both lights wired to common single switch. |
| L Paint / Finish | | |
| 1 | Paint | Bare steel parts painted with SEM coating or powder coated. |
| 2 | Color | Black. |
| 3 | Conspicuity | DOT conspicuity reflective located off shell. |
| 4 | Decals | Standard safety and warning decals. |



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Billings, MT 59101

Pricing Summary

MAC-LTT Mfg., Inc. Aluminum 1,300 Cubic Foot 3-Axle B-Train Lead Semi Trailer

Company Name: Utah Tank & Trailer - Harlyn Transport

Date: 11/24/2021

Address:

Model Number: BSABL-1300-2-3

City, State & Zip:

Quote Number: UTT-HT.BSABL-1300-2-3.1

Contact: James Logan

Year Model: 2023

Phone Number:

Fax Number:

Cell Number:

Email:

M Pricing

Dealer Price Per Unit (US Dollars):

Quantity of Units: 2

Total Price:

Note: Dealer is responsible for collection of FET. MAC LTT Mfg., Inc. does not collect FET.

N Order Acceptance/Terms

1 Freight

F.O.B.-Billings, MT Factory.

2 Quote Terms

Quote valid for 30 days.

Price subject to change based on volatility of aluminum price increases.

O Delivery

1 Delivery

Delivery determined upon signed and received order.

Order Accepted By:


Utah Tank & Trailer - Harlyn Transport

Date:

11/29/2021

Order Approved By:

MAC LTT Mfg. Inc.

Date: