



# HEIL TRAILER INTERNATIONAL

1125 CONGRESS PARKWAY  
ATHENS, TN 37303

## Specification Sheet

Doc Rev. 10-28-2013

Sales Administration Use Only						
Quote Name:	Name	Shop Order Number:	Number-001	Serial Number/s:	Number	Date: xx/xx/xxxx

**CUSTOMER** : **Customer Name**  
**SALESPERSON** : **Salesperson Name**  
**MODEL** : **2040 Cu. Ft. Model Vacuum/Pneumatic - 5 Hoppers - Heavy Duty Export Construction**

**PART NO./DRAWING** :

**CUSTOMER FURNISHED TRACTOR DATA REQUIRED - WEIGHTS INCLUDE DRIVER AND FUEL**

**TRACTOR DATA** :

**SPEC CHG A. VESSEL**

- 1) **Capacity** 2040 Cu. Ft. Super Flo Pneumatic - 5 Hoppers – 102” wide - Heavy Duty Export Construction
- 2) **Tank Construction** Smooth interior, external rings.  
5454-H32 aluminum vessel.  
Hydro tested at 22.5 P.S.I.  
Vessel designed for 13” Hg (inches of Mercury)  
45 degree hopper slope, weld on spun cones.
- 3) **Baffles** None
- 4) **End Frame** Monocoque design with void sections over upper coupler and tandem.  
102 in. wide trailers are not legal on all roads in all states
- 5) **Internal weld finish** W-2; Snag proof and weld tint removed (Class II). Interior surfaces protected during production.
- 6) **Shell finish** Mill finish bulk trailer sheet.
- 7) **Manholes** (5) 20" Heil heavy duty cast aluminum manholes, centered over each hopper.  
(1) 20" Heil heavy duty cast aluminum manhole over rear transition for vacuum inlet.  
  
Each manhole has aluminum cam handles and replaceable nylon wear plates under hold downs, two stainless steel cover retainers, white neoprene gaskets.  
  
Manholes hinge on curbside.
- 8) **Documentation** Unit tested with water. Professional cleaning is recommended prior to initial loading to avoid possible contamination of cargo.



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Maximum commodity temperature 180 degrees F.

- 9) **Product Information** **Specify product/commodity and density to be hauled (mandatory).**
- 10) **Misc. Vessel** None

### B. TANK FITTINGS AND PIPING

- 1) **Air Line Inlet** 4" Sch. 10 aluminum line with welded 4" adapter streetside front of tank and cable tethered aluminum dust cap.  
One (1) Bayco check valve near P.T.O. inlet (groove x groove connection).  
One (1) Bayco check valve upstream of front hopper discharge (groove x groove connection).
- 2) **Inlet Filter/Silencer/Muffler** None
- 3) **Air Cooler** None
- 4) **Aeration** (3) BTI SpinFlo™ aerators controlled with hopper saver wear plates included. 4" Aluminum air manifold, 2" hoses supplying air to aeration system. Air manifold located on streetside of trailer ending with aluminum threaded cap with white neoprene gasket.
- 5) **Aeration Control Valve** 4" BTI MAXXLife™ aluminum body butterfly valve (stainless steel disc, white rubber seat), with power coated steel handle. Located streetside to regulate airflow to air manifold line.
- 6) **Proportioning/Pressure Control Valve** 4" BTI MAXXLife™ aluminum body butterfly valve (stainless steel disc, white rubber seat), with power coated steel handle. Located streetside to regulate airflow to product discharge line.
- 7) **Blow-Down Line** 4" Sch. 10 aluminum line with 4" BTI MAXXLife™ aluminum body butterfly valve (stainless steel disc, white rubber seat), with power coated steel handle. Located streetside front of tank. Includes cam-on style 15 PSI pressure relief valve, Heil factory tested and wire sealed.
- 8) **Top Air Line** 4" Sch. 10 aluminum line with 4" BTI MAXXLife™ aluminum body butterfly valve (stainless steel disc, white rubber seat), with power coated steel handle. Located streetside front of tank.
- 9) **Product Valve** 5" BTI MAXXLife™ aluminum body butterfly valve (stainless steel disc, white rubber seat), with heavy duty ergonomic aluminum handle.
- 10) **Product Tee** BTI SiphonFlow™ 5" x 4" cast aluminum, non-gravity hopper tees



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- |                          |                                       |   |
|--------------------------|---------------------------------------|---|
| <input type="checkbox"/> | <b>11) Product Line</b>               | 4" Sch. 40 aluminum line between hoppers. BTI "All-In-One" aluminum cam-on couplings with a solid white gasket.   |
| <input type="checkbox"/> | <b>12) Rear Discharge Line</b>        | Aluminum Sch. 40 (bent pipe), over axle rear discharge with welded aluminum (Part "A") male adapter and cable tethered aluminum dust cap at rear of discharge pipe.   |
| <input type="checkbox"/> | <b>13) Gauges</b>                     | (2) Liquid filled (Tank) 30/30 PSI/Hg and (Line) gauges in cabinet with light located street side forward of tandem.  |
| <input type="checkbox"/> | <b>14) Vacuum Return Line</b>         | 4" Sch. 10 aluminum line with welded 4" adapter and cap from streetside front to rear of trailer connecting to filter canister. Rear manhole in transition section with 4" line for vacuum entry into tank.   |
| <input type="checkbox"/> | <b>15) Vacuum Filter Control</b>      | 4" BTI MAXXLife™ aluminum body butterfly valve (stainless steel disc, white rubber seat) with power coated steel in line connecting filter and tank.  |
| <input type="checkbox"/> | <b>16) Vacuum Relief Valve</b>        | Vacuum relief valve in 4" vacuum line at front.   |
| <input type="checkbox"/> | <b>17) Vacuum Gauges</b>              | (1) Liquid filled (Filter) 30/30 PSI/Hg range mounted at rear near cyclone with light, facing to the rear.  |
| <input type="checkbox"/> | <b>18) Vacuum Dump</b>                | None  |
| <input type="checkbox"/> | <b>19) Cyclone/Vacuum Filter</b>      | Aluminum canister bolted-on at rear for (2) stage filter system w/20" diameter cast aluminum cover for filter service and 10" inspection port. Primary cyclone separator and secondary system with removable air filter cluster of 292 High Density Polyethylene (HDPE) self-cleaning filter tubes.<br>(1) 4" BTI MAXXLife™ aluminum body butterfly valve (stainless steel disc, white rubber seat) with power coated steel at vacuum inlet of cyclone. |
| <input type="checkbox"/> | <b>20) Filter Dump Line</b>           | 4" filter dump line with product trap space and two (2) 4" BTI MAXXLife™ aluminum body butterfly valve (stainless steel disc, white rubber seat), with cast aluminum handle.  |
| <input type="checkbox"/> | <b>21) Load Line</b>                  | 4" Sch. 40 aluminum bumper level load line with 4" adapter and cap. No inductor hose. Load line extends to last manhole with a blunt end.   |
| <input type="checkbox"/> | <b>23) Load Line Extension</b>        | None  |
| <input type="checkbox"/> | <b>24) Load Line Extension Holder</b> | None  |
| <input type="checkbox"/> | <b>25) Miscellaneous</b>              | None  |



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### C. ACCESSORIES

- 1) **Ladder** Aluminum with serrated rungs and top step mounted at curbside rear with aggressive thread aluminum platform over fender. Grab handles at chassis frame.
- 2) **Walkway** Non-skid tape on top of vessel between full-length top rails. 19" wide, aluminum aggressive thread walkway, curbside rear, 72" long at top.
- 3) **Hose Tubes** (1) 8" x 21' long aluminum hose tube located curbside rear of tank. Cast aluminum door at rear.  
(1) 8" x 21' long aluminum hose tube located curbside between fenders under exiting hose tube. Cast aluminum door at rear.
- 4) **Tire Carrier** None
- 5) **Cabinet** None
- 6) **Hose Holder** P.T.O. hose holder on front head. Male adapter for stowing free end of hose, located curbside. Adapter size corresponds to air inlet adapter size.
- 7) **Fenders** (2) Aluminum single contour front fenders.  
(2) Aluminum double contour rear fenders. Long contour at front.
- 8) **Splash Guard** Anti-sail and anti-spray for front.  
Anti-sail and anti-spray for rear.
- 9) **Bumper** Aluminum, full width at rear of trailer with convenience step.
- 10) **Lights** 12 Volt Truck Lite flange mount LED lamp system complying to FMVSS with conspicuity markings each side and rear.  
  
(2) Combination mid-tank clearance and turn signals, one each side.  
(1) Oval third stop light, located rear center of trailer.
- 11) **Wiring** 12-volt system, 7-wire, molded harness throughout. "Plug-together" modular style harness. 7-way SAE J560 connector.
- 12) **Document Holder** Truck-Lite document holder, mounted on streetside frame at landing gear.
- 13) **Miscellaneous** None

### D. CHASSIS

- 1) **Upper Fifth Wheel** H.D. Hi-tensile steel, bolted and adjustable with 2" forged kingpin with extra reinforcements at upper coupler.



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- 2) **Landing Gear**

Jost model A-HEIL magnum 2-speed, sealed gear box with arctic grade grease, 70,000 lbs. rated lift capacity with 10" x 12" sand shoes and streetside crank. Includes super heavy duty landing leg brace kit. Gray powder coated legs, cross shaft and bracing.
- 3) **Suspension**

Heil's Pre-Dressed value package includes Hendrickson straight axle AAEDT-300 air ride suspension & brake system, 77.5" track, parallel spindle, 30,000 lb. beam rating, 49" spacing, with single leveling valve.

Suspension towers integrated axles painted DuPont Imron Gray.
- 4) **Brake System**

WABCO RSS 4S / 2M ABS with Roll Stability (4 wheel sensors – 2 modulator valves). Constant power is standard on auxiliary (blue) center pin of SAE J560 7-way.

One (1) aluminum 2850 cu. in. air tank with rubber saddles and stainless steel U-bolt mount. System designed to meet FMVSS requirements.
- 5) **Brake Chamber**

OEM brake chambers
- 6) **Brake Lining**

Heil's Pre-Dressed value package includes 16.5" x 7" (quick change type) premium ABEX 931-162, 5/8" thick extended service S-cam type brake shoes.
- 7) **Slack Adjuster**

OEM slack adjusters with grease fittings.
- 8) **Axles**

(2) Integral with air ride.
- 9) **Oil Seals**

Heil's Pre-Dressed value package includes preset bearing with premium OEM seals and "see-through" hubcaps.
- 10) **Paint**

Gray DuPont Imron 5000 paint on steel parts only.
- 11) **Miscellaneous**

None

### E. HUBS AND DRUMS

- 1) **Hubs**

(4) Heil's Pre-Dressed value package includes ConMet 10-stud, "Hub Pilot" (single nut mount) aluminum hubs for outboard drums, parallel spindle and dual aluminum wheel-compatible stud length. 33mm two-piece flanged wheel nuts. Includes 75W90 full synthetic hub lubrication.
- 2) **Drums**

(4) Heil's Pre-Dressed value package includes centrifuse - outboard mounted brake drums (16.5" x 7").



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### F. WHEELS

- 1) **Wheels** (8) See options

### G. TIRES

- 1) **Tires** (8) See options

### H. MISCELLANEOUS

- 1) **Customer Supplied Parts** None

- 2) **Warranty** Heil's Standard 4-Year warranty - One year bumper to bumper coverage with some areas (e.g., barrel and frame) extended on a pro-rated basis out as much as 4 years.

Heil's value package includes DuPont prorated 3-year warranty on steel parts, prorated 4-year warranty on aluminum parts.

Heil's value package includes Jost 5-year maintenance free landing gear warranty.

- 3) **Other Notes** This Heil pneumatic tank trailer is designed and constructed for the highway transportation of dry granule and pulverized bulk commodities. It is not designed for hauling any type liquid or semi liquid (slurry) which may damage the unit and potentially cause personal injuries.

- 4) **Miscellaneous** As permitted, stainless steel fasteners are used for bolt-on accessories and brackets.

Operational manual and informational CD is included and shipped with each trailer.