



## TRAILERS

*Heil Cement Tanker SHD 1040*

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#### **A. VESSEL**

1. **Capacity** 1040 Cu. Ft. HD Super Jet Pneumatic - 100,000 # Gross 3 Hoppers
2. **Tank Construction** Smooth exterior, internal rings.  
\*SHD all .250 barrel, end cones and upper hopper; and HD long members.  
\*.250 top center section and top of end cones and heavy duty mainframe channel welded to hoppers.  
\*HD welded steel end frames.  
5454-H32 aluminum vessel.  
Hydro tested at 37.5 P.S.I.  
45 degree hopper slope with weld-on spun cones.
3. **End Frame** Huck riveted bi-metal end frames with galvanized hi-tensile steel frame rails and aluminum crossmembers, with aluminum struts.
4. **Interior Welds** Class I, as welded.
5. **Manholes** 2 20" Heil heavy duty cast aluminum manhole covers, pressure type with 6 aluminum cam actuated adjustable hold downs and Nylon wear plates. Mount one over center and rear hopper.  
  
Aluminum cam handles and nylon wear plates, replaceable wear plates under hold downs, two stainless steel cover retainers per manhole.  
\*Black Buna-N gaskets in manhole cover.  
Manholes hinge on curbside.
6. **Shell Finish** Mill finish bulk trailer sheet.
7. **Baffles** None
8. **Documentation** Unit tested with water.  
Professional cleaning is recommended prior to initial loading to avoid possible contamination of cargo.  
180 degrees F. maximum operating temperature.
9. **Product Information** Cement



10. Misc. Vessel 0 None.

## B. TANK FITTINGS AND PIPING

1. **Air Inlet Line** 3" Sch. 10 aluminum line with welded 3" adapter streetside front of tank. One (1) Knappco swing spring check valve near P.T.O. inlet. One (1) Knappco swing spring check valve upstream of front hopper discharge.
2. **Aeration** \*Three (3) Solimar aerators per hopper. 3" Aluminum air manifold, 2" hoses supplying air to aeration system. Hopper saver wear plates.
3. **Prop/Pres Ctl Valve** 3" Heil fig. 500, aluminum body butterfly valve (alum/bronze disc, black Nitrile seat). Locate streetside to regulate airflow to product discharge line.
4. **Aeration Valve** 3" Heil fig. 500, aluminum body butterfly valve (alum/bronze disc, black Nitrile seat). Locate streetside to regulate airflow to air manifold line.
5. **Blow-Down Line** 3" Sch. 10 aluminum with 3" Heil fig. 500 aluminum body butterfly valve (alum/bronze disc, black Nitrile seat). Locate streetside at front of tank. 25 PSI pressure relief valve.
6. **Top Air Line** None.
7. **Product** 5" Heil Fig. 500 aluminum body butterfly valve (iron disc, black Nitrile seat, with powder coated steel handle).
8. **Product Tee** \*5" x 4" Heil low profile aluminum outlet tee.
9. **Product Line** 4" Sch. 40 aluminum line between hoppers. Rubber hose with stainless steel screw band clamp connectors between hoppers.
10. **Rear Discharge** \*Sch. 40 aluminum, bent tube, over axle. Welded aluminum male adapter (Part "A") and dust cap at rear of discharge pipe.
11. **Vacuum Inlet Line** None.
12. **Load Line** None.
13. **Cyclone Filter** None.
14. **Gauges** Two (2) 4" liquid filled, one tank pressure, one line pressure. Gauge pressure range 0-30 PSI. Gauges in cabinet with light located streetside rear, forward of tandem.
15. **Miscellaneous** 0 None.

## C. ACCESSORIES

1. **Ladder** Rear center of head, aluminum, with serrated rungs & grab handles at top step.
  2. **Hose Tubes** 1 8" x 21' long aluminum hose tube located curbside rear of tank. Cast aluminum door at rear.
  3. **Walkway** Adhesive backed skid-resistant tape between toe rails.
  4. **Tire Carrier** None.
  5. **Cabinet** None.
  6. **Hose Holder** P.T.O. hose holder at nose.
  7. **Fenders** 2 Aluminum single contour front fenders.  
2 Aluminum double contour rear fenders.
  8. **Splash Guard** Anti-sail and anti spray for front.  
Anti-sail and anti spray for rear.
  9. **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 One oval third stop light, located rear center of trailer.
  10. **Wiring** 12-volt system, 7-wire, molded harness throughout. "Plug-together" modular style harness.  
7-way SAE J560 connector.
  11. **Miscellaneous** 0 None.
- ## D. CHASSIS
1. **Upper Fifth Wheel** \*HD Plate adjustable, bolted, with 2" forged kingpin.
  2. **Skid Plate** None.
  3. **Landing Legs** \*Binkley, 2-speed, 50,000 Series or 51,000 with sandshoes,
  4. **Suspension** \*Hendrickson Intraax air ride, tapered axle, & brake system AA250, 71.5" track, 5/8" axle, 25,000# beam rating, 49" axle spacing, with single leveling valve.  
\*Intraax auxiliary rebound limiter
  5. **Brake System** One (1) aluminum 2850 cu. in. air tank with rubber saddles and stainless steel u-bolt mount. System to meet FMVSS requirements. Meritor (Rockwell) Wabco "Easy Stop" 4S-2M ABS system, (4 sensor/2 modulator). Diagnostic plug is included. Roll stability system included. Philips "Quick Release" gladhand on service line. Constant power is standard on auxiliary (blue) center pin of SAE J560 7-way.

16.5" x 7" (quick change) S-cam type brake shoes - Heil's R2R Package includes extended service brake shoes.

6. **Brake Chamber** OEM type 30-30 parking-emergency spring brake (normal stroke) - Heil's R2R Package includes Life Seal Chambers
7. **Brake Lining** OEM brake lining.
8. **Slack Adjuster** OEM type automatic slack adjuster (Haldex for Heil's R2R Package)
9. **Axles** 2 Integral with air ride.
10. **Oil Seals** Preset bearing with OEM seals and visible-fluid type hubcaps.
11. **Paint** Dupont Imron 5000 series gray paint on steel parts only. Paint warranty: 3 Year prorated warranty steel parts, 4 year prorated warranty on aluminum parts.
12. **Misc. Chassis** 0 None.

## E. HUBS AND DRUMS

1. **Hubs** 4 10 Stud, "Hub Pilot" (single nut mount), aluminum hub for outboard drum (tapered spindle)  
\*Hub lubrication CD-50 synthetic transmission fluid.
2. **Drums** 4 Centrifuse - outboard mount brake drums (16.5" x 7").

## F. WHEELS

1. **Wheels** 8 10 Stud aluminum machine finish 22.5" x 8.25" (Hub Pilot - single nut mount) wheels  
0

## G. TIRES

1. **Tires** 8 Michelin XT-1, 11R22.5 14-Ply G

## H. MISCELLANEOUS

1. **Customer Supplied Parts** None.
2. **Warranty** Standard One Year warranty - One year bumper to bumper coverage.
3. **Blower** TutHill 1050 blower package-side suction and side discharge with Deutz Diesel engine.  
10" channel iron base with 4 mounting brackets, drilled with 5/8" holes. KTR coupling, Centri precleaner and silencer. Unit is self contained with fuel tank and battery.

3" discharge piping with 25 PSIG Kunkle pressure relief valve with stainless steel spring, 3" adapter, dust cap with chain and necessary elbows and close nipples.

Duetz 4 cylinder, turbo charged, 87 horsepower, at 2000 rpm.  
12V electric starter and alternator, engine cooling fan with drive guard, oil bath air cleaner and precleaner,  
engine control panel, remote mounted with engine control throttle for fine speed engine adjustment.  
The instrument control panel includes, oil pressure gauge, cylinder head temperature gauge, tachometer,  
hour meter, amp gauge, and key start/stop switch. The engine also has a rack puller shutdown for low oil pressure,  
high cylinder head temperature and cooling fan v-bolt failure. A 40 gallon steel fuel tank is integrated with the steel mounting base.

RPM from 1800 (550 CFM) to 2300 RPM (950 CFM)	
Blower CRM @ 2000 RPM	750 CFM @ 16 PSIG
Pressure:	4 PSIG to 20 PSIG
Approximate height:	34"
Approximate width:	26"
Approximate length	72"
Approximate weight	1,827 lbs.