

POLAR

Specifications

49970 - 49973

2018 ALUMINUM, PNEUMATIC DRY BULKER, INTERIOR RING, NON-CODE TRAILER

(APX9 1040-1)

<u>BARREL DESCRIPTION:</u>	Model: APX9 1040-1, Aluminum, Pneumatic dry bulker, Interior ring, Non-code trailer.
Code:	APX9 1040-1, Aluminum, Pneumatic dry bulker, Interior ring, Non-code trailer.
Code:	Non-code
Capacity:	1040 cubic feet, 3-hopper
Compartments:	One
Shape:	Round with 45 degree discharge hoppers, internal ring, with smooth exterior
Shell Material:	Aluminum 5454H32 barrel, end cone, and upper hopper section
Head Material:	Aluminum, .3125
Operating Pressure:	25 PSI
Design Temperature:	180 degrees F
Overall Length:	42'
Product:	Cement and various other dry products to be compatible with the materials of construction
Material Finish:	Mill Finish

CONSTRUCTION

Front/Rear:	Aluminum extruded channel, bolted to center frame.
Center:	Aluminum extruded channel
Struts:	Aluminum extruded struts, single at both ends
Manhole:	(2) Knappco MM2120, 20" aluminum cover, six hold down with nylon wear plates and additional safety retainer
Gasket:	(2) White neoprene gasket in cover, not toxic
Manhole Hinge Location:	Manhole covers hinged to curbside of trailer.

HOSE CARRIERS

*Hose Carrier:	Aluminum tube 8" diameter x 21' long. Tube to be mounted to the outer edge of brackets
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*Hose Carrier: 8" Aluminum door, at rear, door hinged at bottom
*Carrier Location: Mounted roadside rear

LIGHTS & WIRING

Lights: 12-volt, Truck-Lite LED grommet-mount lights.
Combination center marker/turn signals, mounted on barrel frame

Wiring: Plug-in style harness system

Rear Lights: Enclosed in stainless steel light boxes

Extra Lights: Truck-Lite grommet-mount LED round stop light mounted at bottom of rear head
(2) Truck light #81360, LED work light. No switch included with this option. One mounted roadside behind front fender and one at base of rear head, curbside. (If third light is selected, mount at base of rear head, roadside)
Master switch to operate all work lights or spot lights, mounted in gauge box

Nose Box: Standard 7-Way, J560 receptacle with out circuit breakers

UNDERCARRIAGE

Upper 5th Wheel: $\frac{5}{16}$ " heavy duty with A.A.R. style double hubbed kingpin

Paint: 5th wheel plate painted black

Landing Gear: Holland Atlas 55 2-speed

Bracing: Stainless steel, with cross brace

Crank Location: Roadside

Tire Carrier: None

Suspension: Hendrickson Intraax AAT23K, 23000#, tandem axle with standard 49" axle spacing, Hendrickson integrated axles.

Dump Valve: None

Hangers: Galvanized hangrs with soft coat applied to axle and trailing arm.

Suspension: Polar load scale system. Liquid filled Seal Fast pressure gauge, 0 to 100 PSI, connected to air springs and mounted in gauge box. Scale operates when bags are inflated, no intermediate control. PSI to pounds conversion chart monuted on gauge box door.

Bumper: No bumper provided

Under-ride Protection: None (no under ride required, wheels back exempt)

Beam: Inverted axle, humped up.

Track: 71 $\frac{1}{2}$ " track

Spindle: P spindles (parallel) same inner and outer bearing

Wheel Seals: Stemco Guardian standard w/ Hendrickson HXL

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Hubs & Drums:	Hub-piloted, Dura-light hub with centrifuse drum. Includes Hendrickson, extended life system "HXL", 7 year warranty. This package comes with synthetic semi-fluid grease, seals, and wheel-ends.
Miscellaneous:	None
Brakes:	S-cam, 16 1/2" x 7", Extended Service
*Anti-Lock/Roll Stability:	Meritor 4S/2M with standard roll stability system deleted per customer request
Brake Chambers:	OEM
Brake Lining:	Extended Service, non-asbestos
Slack Adjusters:	OEM automatic
Valves:	Sealco
Glad Hands:	Phillips quick release
Air Systems:	To DOT specifications, single aluminum tank system, 2800 cu. in.
*Wheels:	Alcoa LVL-one clean buff 22.5 x 8.25 aluminum disc
*Tires:	Long Haul Radial 11R-22.5. Load Range G (14 ply) tire
Mud Flaps:	White plastic with Polar logo, mounted front and rear Front & Rear - aluminum contour
Hose Hook:	Adjustable hose hook mounted at front of trailer with 3" dummy adapter on curbside.
Jumper Hose:	None.

VALVING & PIPING

Seal provisions:	None
*Discharge Valves:	5" Black Maxx butterfly valves with ductile, buna seat. #5B-600-530-HD10
*Discharge Tee:	(3) 5" x 4" BTI, "Siphon Flow", cast aluminum. #BT-500-A
Piping:	4" Aluminum schedule 40 between hoppers, ending at last hopper.
Rear Discharge Pipe:	None. No pipe to rear of trailer.
Pipeline Connectors:	Rubber hose with stainless steel clamps, allegHENY aluminum coupling forward of first hopper.
*Adaptor:	4" aluminum male adaptor.
*Cap:	4" Aluminum dust cap
*Air Inlet:	3" Aluminum on roadside with front elbowed upward with 3" thread. One (1) 3" BTI Black Maxx#3B-600-530-HD10 valve with Ductile Disc & buna seat.
*Check Valves:	Two 3" Bayco check valves, one forward of first hopper, one near front of air inlet line
Adaptor:	3" Aluminum male adaptor
Cap:	3" aluminum dust cap
*Aeration:	3" Aluminum aeration line on roadside controlled by 3" BTI Black Maxx #3B-600-530-HD10 butterfly valve, with Ductile

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Aeration Controls:	disc and buna seat. Two one port aerators and one 3 port aerators. (3) BTI aerators per hopper.
Location:	2" ball valves for individual hopper aeration.
*Blow-down:	Aeration mounted roadside
	3" Aluminum pipe and 3" Black Maxx #3b-600-530-HD10 butterfly valve, ductile disc and buna seat.
*Relief Valve:	2" BTI quick coupler relief valve BTVR-2650-25, in blowdown line. Relief valve to be accessible from ground level. Relief valve set at 25 PSI.
*Top Air:	3" Aluminum pipe and 3" BTI Black Maxx composite fiber body valve, with Allomaxx disc and white Nitrile seat
*Pressure:	Liquid filled, one for line pressure, one for tank pressure, enclosed in aluminum gauge box with light, located roadside, ahead of rear fender, facing forward.
Delivery Hose:	None
Adaptor:	None

WALKWAY & LADDER

Walkway	
Top Center:	Non-skid tape, full length of barrel
Toe Rail:	1 1/4" aluminum pipe each side of walkway, full length
Ladder:	Aluminum tubular with large platform step, bolt on
Location:	Mounted at rear head, centered
Cabinet:	None. No cabinet installed

MISCELLANEOUS

Decals:	Standard warning and safety package
Conspicuity Tape:	Discontinuous tape
Customer Logo:	None
Document Holder:	Truck-Lite #97960
Placards:	None
Paint:	None. No paint or primer installed on trailer
Interior Cleaning:	Class 1, as welded. Note: Interior cleaning is recommended prior to initial loading to avoid possible product contamination
Warranty:	Polar standard two year
Tests:	Standard testing

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