

HALE

TRAILER

BRAKE & WHEEL

A033114-A033116

VIN: S031950-S031952



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ITEM	DESCRIPTION
TYPE	CHIPS TRAILER
APPLICATION	GALVANIZED SEE SECTION
DIMENSIONS	
LENGTH	48'-0" (14630 mm)
WIDTH	102 3/8" (2600 mm)
HEIGHT	13'-6" coupler height: 48"
WEDGE HEIGHT	5" front to rear.
SUB-STRUCTURE	
KING PIN LOCATION	36" from front. (900 mm)
KING PIN	Bolted, 2" diameter, Holland, KP-0881.
COUPLER PLATE	5/16" thick, reinforced, 100 000 psi steel, extends 18" behind king pin, 17 500 kgs capacity.
CROSSMEMBERS	1 beams, 4" @ 3.2 lbs/ft, 80 000 psi steel, 12" center to center, GALV
FLOOR	Preparation for walking floor installed at Manac.
FLOOR	Walking Keith 7/32" straight, (2190/2191) 48'-0", **GALVANIZED** 3 1/2" cylindre. Bolted aluminum subdeck #2469, splash guard #2468 full length T-block included.
	Walking floor deflector with rubber flat at bottom to avoid materiel to go behind.
FRONT WALL	
PANELS	Type: "G" (5" radius corners). Stainless steel mirror finish, no paint.
POSTS	Qty: 6, 4 of 45 mm, aluminum, and 1 each end, integrated to aluminum front corners.
FASTENERS	3/16" stainless steel rivets, 4" c/c and 2" c/c on joints.
INTERIOR LINER	See insulation section.
FRONT CORNERS	Double sheating, 20 gauge stainless steel mirror finished on the outside and unpolished aluminum extrusions.
LADDERS	incl
CAT WALK	Aluminum, 24" wide on front wall, ladder, made of aluminum, fixed directly on front wall, road side included. Door holder included. Application "Flip floor" to access inside the catwalk. Warning ladder shorter with hydraulic lines under.
FRONT DOOR	One, 25" x 47", panel 3/4" plymetal doors, aluminum prepainted white outside and satin coated steel inside. Including one molded aluminum foot step above connector. For access inside van,
SIDE WALLS	
PANELS	Aluminum. Prepainted white aluminum (.049 thick).
POSTS	Aluminum, 45 mm, 16" c/c, full length.
FASTENERS	3/16" aluminum rivets, 4" c/c and 2" c/c on joints.
INTERIOR LINER	See insulation section.
INTERIOR LINER	Horizontal.



ITEM	DESCRIPTION
SAMPLE DOOR(S)	None.
TOP RAILS	5 1/2" high, open top aluminum extrusions, unpolished.
BOTTOM RAILS	8 7/8" high, aluminum extrusions, unpainted.
VENTS	None, request from customer.
POSTS	Posts at 12" c/c for last three side panels.
REAR END	
DOOR FRAME	Galvanized steel (G164).
DOOR(S)	Combined, galvanized steel dump and aluminum swing type with prepainted white aluminum 0.049 thick. Prepainted white pannels towards outside the van. Hinge(s) on each corner. ref: 176406.
BLOWER DOORS	(2) 36 1/2" x 41 1/2" 1/2-13F galvanized wire mesh at top. in a combined door.
HEADER	Steel formed 4" x 4" x 3/16".
DOOR PANELS	Prepainted white aluminum 0.049 thick.
	Prepainted white pannels towards outside the van.
DOOR LATCH(S)	On door sill. Manually operated by a road side handle.
HINGES	2, one each top corner.
DOOR FRAME BUMPER	1 1/2"x 1 1/2" solid steel push bars, more extension bolted 5" with integrated holes for pull.
BUMPER	CMVSS 223-RIG approved (in accordance with Canada & USA regulation). Formed steel uprights, 4" x 4" cross bar roll formed tubing at a maximum height of 22" from under tubing to ground.
LOOP STEP(S)	Between bumper uprights, galvanized, tubing 3" x 3" X 1/4" with anti-skid FULL LENGTH on top.
SECURITY DOOR LOCK	Handle on road side, with lock on the bottom rail and door frame, with handle tilt limiter.
ROOF	
BOWS	Open type.
TARP SUPPORT	Qty: 3, galvanized steel (G164), without offset and hignes.
NET	1/4" aluminum plate at each end of the unit for roll tarp type.
INSULATION	
FRONT WALL	1 1/2" thick Polyform.
	Front corners, 1" thick Polyform.
FRONT INTERIOR LINER	Kemlite white "monster scuff", .240" thick, fastened with steel pop rivets.
REAR DOOR(S)	1 1/2" thick Polyform.
DOOR(S) LINER	Prepainted white aluminum 0.049 thick.
	Natural aluminum inside the van.
SIDE WALLS	1 1/2" thick Polyform.
INTERIOR LINER	Kemlite LTR, .120" thick, fastened with steel pop rivets.
ELECTRICAL	

ITEM	DESCRIPTION
CONNECTOR PLATE FRONT CONNECTOR FRONT ADD. CONNECTOR ELECTRICAL SYSTEM MAIN SYSTEM	Raised, aluminum formed plate. 7 ways (SAE J560), Phillips brand, located center. 7 ways (ISO 3731), for auxiliary functions only. Shock proof lights, polycarbonate lenses, in compliance with CMVSS 108. Grote Ultra Blue LED, Grote sealed beams, tail lights with male pins #53252 (10 diodes), markers #47122,233 (2 1/2") at bottom and each side on top of rear door frame (1"), licence light LED.
FLASHERS	Sealed beams LED, one lamp including side marker and flasher each side at middle point, amber.
BACK UP LIGHTS	Type sealed beam spot light (Grote #62391 LED), Qty: 2 (in the sill)
TAIL LIGHTS	Sealed beams, red, (Grote LED #53252). Qty: 1 additional each side. (10 diodes)
INSIDE SPOT LIGHTS	From outside, tail light and flasher, flasher with parking, brake with parking.
ADDITIONAL MARKER(S)	Back up light type, LED sealed beam (Grote #62401) 54 diodes, qty: 1, fixed REAR top corner with Switch on front bottom rail road side. To light the inside.
AUTOMATIC TIRE INFLATION	Sealed beams (Grote MicroNova LED (Dot lights #49323, amber), with rubber grommet. Qty: 10 additional each side, evenly spaced. ***12" FROM TOP RAIL, TARP APPLICATION
	Automatic Tire inflation featuring ONLY: Warning lamp TIREMAAX installed std on road side FRONT CORNER. Must be visible from the truck. (Hendrickson only)
LANDING GEAR	Holland, Mark V (LGS-3C315-CS748), with mounting plate sand shoes 10" x 11 1/2" solid axles. Galvanized legs option.
SAND SHOES CRANK SPAN	***MOUNTED 1 CROSSMEMBER REAR OF STANDARD 10" x 11 1/2", solid axles. Road side. 3/16" formed steel, reinforced, galvanized.
BASIC MECHANICAL FRAME	Fixed, for wedge sub-structure, 1/4" thick, C-shaped, frame construction, plug welded connection, 60" spread tridem air ride suspension.
ADDITIONAL BOGIE (GALV)	Galvanized, Fixed, 1/4" thick steel, C-shaped frame, x about 102", bolted under crosmembers to receive galv. Walking Keith floor power unit. (Application fixed bogie w/ galv sub-structure)
MECHANICAL SUSPENSION SUSPENSION (INTRAAX)(HXL5	Hendrickson INTRAAX disc brake AAT-30K, tridem, 60" spread. (Hendrickson MAXX22T). Bearing HM 518445. 77" track. OPTION "EXTENDED LIFE HXL5 PACKAGE" ON INTRAAX AAT,30K. Seals (Hendrickson), spindle nut (Precision), hub cap (Hendrickson) Synthetic GREASE included. CHAMBER 20/24.



ITEM	DESCRIPTION
STROKE STOPPERS	Retaining chains for INTRAAX air suspensions with grounded axles.
LIFT SUSPENSION	Air lift Hendrickson "UBL-102". **bolted and galvanized**. Quick and brake release valves on air lift suspension. ***REAR AXLE
SPRINGS	Air.
AXLES	LDA, 5 3/4" diameter, 25 000 lbs. capacity.
SPIDERS	Welded.
CAM SHAFTS	
TRACK	77 1/2".
DUST SHIELDS	Steel, clamped.
BRAKES	DISC
BEARINGS	HM 518445.
SLACK ADJUSTERS	
SEALS	HENDRICKSON SEALS SYNTHETIC GREASE
BRAKE CHAMBERS	20/24
HUBS AND DRUMS	WEBB, 10 studs disc hubs, balanced drums 104.5 lbs, outboard mount, 285.75mm B.C., single flange nuts. For dual aluminium wheels.
RIMS	Alcoa, aluminum, "ULTRA ONE", 24.5 x 8.25, disc (10 holes), 285.75mm B.C., single flange nuts.
SPACERS	Wheel guard 10 holes. Located between the inside wheel and the drum.
TIRES	Plant choice 24.5. 16 Plys
AIR SYSTEM	
GLAD HANDS	Fixed, bolted.
AIR VALVES	Meritor Wabco, IABS, 2 sensors 1 modulator.
VALVE	Manual blow down valve in a control box, WITHOUT auto-reset feature, including Glycerin filled pressure gauge, in P.S.I., to indicate load with a conversion table.
CONTROL BOX	Stainless steel
AUTOMATIC TIRE INFLATION	Automatic Tire inflation System Hendrickson Tiremaax PRO. Axles preparation included, dressed axles HN/HP or disc brake. *** Maximum allowable tire pressure for this device is 120psi *** Warning lamp TIREMAAX installed on road side front radius.
AUTOMATIC TIRE INFLATION	"Automatic Tire Inflation Systems", REMARK: Make sure the system is adjusted to the same tires pressure written on the serial plate.
VALVES	Used to close the supply of air to air bags. (2 per axle)(shutt off). Note: Not valide on steer axle
ACCESSORIES	
REGISTRATION HOLDER	One plastic, Betts-PS-1 or equivalent.



ITEM	DESCRIPTION
EXTRA MUD FLAP	Center mud flaps, full width (48" wide) with Manac logo. Located ahead of the tridem.
HYDRAULIC LINES	(To protect air booster & the suspensions). Located curb side instead of road side.
HYDR. CONN. (PRESSURE)	Male, 1" diameter, screw type.
HYDR. CONN. (RETURN)	Female, 1" diameter, screw type with wing nut.
HYDRAULIC LINES	Hydraulic oil. Operating temperature -10 to 60 degree Celsius.
HYDRAULIC LINES	Minimum pump data required :
EXTRA MUD FLAPS	Operation pressure : 2800 psi Pump : 30 to 35 gpm Tank : 35 gallons
EXTRA MUD FLAPS	Qty: 3 sets, rubber with Manac logo and vertical grooves to reduce spray. Located at EACH AXLE
EXTRA MUD FLAPS	Hydraulic control for mobil floor with lever extension. Qty: 1 set, rubber with Manac logo and vertical grooves to reduce spray. Located at FRONT OF LANDING GEAR REF#237514
FINISHING	
UNDERCARRIAGE	GALV
BOGIE	GALV
HUBS	Black.
WHEELS OR RIMS	Natural.
RETROREFLECTIVE TAPES	Conspicuity striping in compliance with CMVSS 108. Gray and red, 2' segments at bottom of each side wall. Fully covers bottom of rear doors and horizontal underride protection bar. 2 segments of gray tape at each upper corner.
GALVANIZED CHOICES	Galvanized choices.
COUPLER	Galvanized coupler.
SUB-STRUCTURE (GALV.)	Galvanized, cross members, "C" frame for tridem and landing gear structure included. (sub-structure galvanized all over except coupler)
CONFORMITY	This semi-trailer does not comply with GHG regulations. Should GHG regulations come into force prior to the production of the trailer(s), Manac will have the obligation to ensure the trailer(s) produced meet minimum GHG guidelines. Any modifications required to meet the GHG regulations will be added to the initial purchase price and charged back to the customer.

DISCLAIMER

Specifications are believed to be correct, but may contain errors and/or omissions. Photographs are the representative of the subject equipment but may not be identical. Equipment availability, prices and specifications are subject to change without notice.