

HALE

TRAILER

BRAKE & WHEEL

Hale Trailer Brake & Wheel 196291



ITEM	DESCRIPTION
TYPE APPLICATION	CHIPS TRAILER GALVANIZED SEE SECTION
DIMENSIONS LENGTH WIDTH HEIGHT WEDGE HEIGHT	48'-0" (14630 mm) 102 3/8" (2600 mm) 13'-6" coupler height: 48" 5" front to rear.
SUB-STRUCTURE KING PIN LOCATION KING PIN COUPLER PLATE CROSSMEMBERS FLOOR FLOOR	36" from front. (900 mm) Bolted, 2" diameter, Holland, KP-0882. Approche plate and coupler plate 3/8". 1 beams, 4" @ 3.2 lbs/ft, 80 000 psi steel, 12" center to center, Preparation for walking floor installed at Manac. Walking Keith 7/32" straight, (2190/2191) 48'-0", 3 1/2" cylindre. Bolted aluminum subdeck #2469, splash guard #2468 full length, T-block included. (application galvanized sub-structure) Walking floor deflector with rubber flat at bottom to avoid materiel to go behing.
FRONT WALL PANELS POSTS FASTENERS INTERIOR LINER FRONT CORNERS LADDERS CAT WALK FRONT DOOR	Type: "G" (5" radius corners). Stainless steel mirror finish, no paint. Qty: 6, 4 of 45 mm, aluminum, and 1 each end, integrated to aluminum front corners. 3/16" stainless steel rivets, 4" c/c and 2" c/c on joints. See insulation section. Double sheating, 20 gauge stainless steel mirror finished on the outside and unpolished aluminum extrusions. Aluminum, 24" wide on front wall, ladder, made of aluminum, roadside included. One, 25" x 47", panel 3/4" plymetal doors, stainless steel mirror finish outside and satin coated steel inside. Including one molded aluminum foot step above connector. For access inside van, Warning: see insulation section for inside lining.
SIDE WALLS PANELS POSTS FASTENERS INTERIOR LINER INTERIOR LINER SAMPLE DOOR(S) TOP RAILS BOTTOM RAILS VENTS POSTS	Aluminum. Prepainted black aluminum 0.049 thick. Aluminum, 45 mm, 16" c/c, full length. 3/16" aluminum rivets, 4" c/c and 2" c/c on joints. See insulation section. Horizontal. None. 5 1/2" high, open top aluminum extrusions, unpolished. 8 7/8" high, aluminum extrusions, unpainted. None, request from customer. Posts at 12" c/c for last three side panels.



ITEM	DESCRIPTION
REAR END DOOR FRAME DOOR(S) HEADER DOOR LATCH(S) HINGES DOOR HOLDBACKS DOOR FRAME BUMPER BUMPER DOOR LOCK(S) LOOP STEP(S)	Galvanized steel (G164). Combined, galvanized steel dump and aluminum swing type with prepainted BLACK aluminum 0.049 thick. Prepainted BLACK panels towards outside the van. Hinge(s) on each corner. ref: 176406. Steel formed 4" x 4" x 3/16". Single, Eberhard 1969-U. 3 per door, aluminum. Chain and hook type, including stabilizing rubber stoppers. 1 1/2"x 1 1/2" solid steel push bars, more extension bolted 5" with integrated holes for pull. 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. Security type, road side. Between bumper uprights, galvanized, tubing 3" x 3" X 1/4" with anti-skid on top and bolted at each end. Ref: 174277.
ROOF BOWS TARP SUPPORT NET	Open type. Qty: 3, galvanized steel (G164), without offset and hignes. 1/4" aluminum plate at each end of the unit for roll tarp type. None, (NO HOOK FOR NET).
INSULATION FRONT WALL FRONT INTERIOR LINER REAR DOOR(S) DOOR(S) LINER SIDE WALLS INTERIOR LINER	1 1/2" thick Polyform. Front corners, 1" thick Polyform. Kemlite white "monster scuff", .240" thick, fastened with steel pop rivets. 1 1/2" thick Polyform. Prepainted BLACK aluminum 0.049 thick. Natural aluminum inside the van. 1 1/2" thick Polyform. Kemlite LTR, .120" thick, fastened with steel pop rivets.
ELECTRICAL CONNECTOR PLATE FRONT CONNECTOR FRONT ADD. CONNECTOR ELECTRICAL SYSTEM MAIN SYSTEM FLASHERS BACK UP LIGHTS TAIL LIGHTS	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 #60280-M. Sealed beams LED, one lamp including side marker and flasher each side at middle point, amber. Sealed beam spot light (Grote #40-4411-00 in a closed back rubber grommet), Qty: 2 Sealed beams, red, (Grote LED #53252). Qty: 1 additionnal each side. (10 diodes)



ITEM	DESCRIPTION
MAIN SYSTEM INSIDE SPOT LIGHTS ADDITIONAL MARKERS	From outside, tail light and flasher, flasher with parking, brake with parking. With additional vapor proof junction box Truck-Lite #50400. Back up light type, LED sealed beam (Grote #62401) 54 diodes, qty: 1, fixed ***front*** roas side top corner with Switch on front bottom rail road side. To light the inside toward the front. Sealed beams (Grote MicroNova LED #47952/53) with chrome rings. Qty: 10 additionnal each side, (5) evenly spaced on bottom rails and (5) evenly spaced 12" under top rail. Total: 20. Warning lamp TIREMAAX installed on road side front radius.
LANDING GEAR SAND SHOES CRANK SPAN	Holland, Mark V (LGS-3C315), 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, bolted connection, 60" spread tridem air ride suspension.
MECHANICAL SUSPENSION STROKE STOPPERS LIFT SUSPENSION SPRINGS AXLES SPIDERS CAM SHAFTS TRACK DUST SHIELDS BRAKES BEARINGS SLACK ADJUSTERS SEALS BRAKE CHAMBERS HUBS AND DRUMS RIMS RIMS SPACERS TIRES	Hendrickson INTRAAX disc brake AAT-30K, tridem, 60" spread. (Hendrickson MAXX22T). Bearing HM 518445. 77" track. Retaining chains for INTRAAX air suspensions with grounded axles. Air lift Hendrickson "UBL-102". **BOLTED KIT-GALVANIZED**. Quick and brake release valves on air lift suspension. Located ****REAR AXLE*** Air. LDA, 5 3/4" diameter, 25 000 lbs. capacity. Welded. DISC BRAKES 77 1/2". Steel, clamped. DISC BRAKES HM 518445. DISC BRAKES "Gearlube" mineral oil, SAE 80W90. DISC BRAKES For dual aluminium wheels. Alcoa, aluminum, "ULTRA ONE", 24.5 x 8.25, disc (10 holes), 285.75mm B.C., single flange nuts. Wheel guard 10 holes. Located between the inside wheel and the drum and between two wheels. Continental, 11 R 24.5 HSR-2 16 ply (43.5") Automatic Tire inflation System Tiremaax.
AIR SYSTEM GLAD HANDS	Fixed, bolted.



ITEM	DESCRIPTION
AIR VALVES VALVE	Meritor Wabco, ABS, 2 sensors 1 modulator. 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 AUTOMATIC TIRE INFLATION	Stainless steel. Automatic Tire inflation System Hendrickson Tiremaax PRO. For axles with bearings HM 518445, dual tires. NOTE: Axles prep. fees included for undressed axle. *** Maximum allowable tire pressure for this device is 120psi *** (tridem application) "Automatic Tire Inflation Systems", REMARK: Make sure the system is adjusted to the same tires pressure written on the serial plate.
ACCESSORIES REGISTRATION HOLDER MUD FLAPS HYDR. CONN. (PRESSURE) HYDR. CONN. (RETURN) HYDRAULIC LINES HYDRAULIC LINES EXTRA MUD FLAPS ANTI-SAIL BRACKETS	One aluminum cylinder. One set, rubber with Manac logo and vertical grooves to reduce spray. Male, 1" diameter, quick coupling. Female, 1" diameter, quick coupling. Hydraulic oil. Operating temperature -10 to 60 degree Celsius. Minimum pump data required : Operation pressure : 2800 psi Pump : 30 to 35 gpm Tank : 35 gallons Qty: 2 set, rubber with Manac logo and vertical grooves to reduce spray. Located at rear of each axles. Hydraulic control for mobil floor with lever extension.
FINISHING UNDERCARRIAGE BOGIE HUBS WHEELS OR RIMS RETROREFLECTIVE TAPES	Galv. Galv. Black. Natural. 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 SUB-STRUCTURE (GALV.)	Galvanized choices. 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.