

# HALE

## TRAILER

### BRAKE & WHEEL

## Hale Trailer Brake & Wheel 196291



ITEM	DESCRIPTION
<b>TYPE</b> <b>APPLICATION</b>	CHIPS TRAILER GALVANIZED SEE SECTION
<b>DIMENSIONS</b> <b>LENGTH</b> <b>WIDTH</b> <b>HEIGHT</b> <b>WEDGE HEIGHT</b>	48'-0" (14630 mm) 102 3/8" (2600 mm) 13'-6"                      coupler height: 48" 5" front to rear.
<b>SUB-STRUCTURE</b> <b>KING PIN LOCATION</b> <b>KING PIN</b> <b>COUPLER PLATE</b> <b>CROSSMEMBERS</b> <b>FLOOR</b> <b>FLOOR</b>	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.
<b>FRONT WALL</b> <b>PANELS</b> <b>POSTS</b>  <b>FASTENERS</b> <b>INTERIOR LINER</b> <b>FRONT CORNERS</b>  <b>LADDERS</b> <b>CAT WALK</b>  <b>FRONT DOOR</b>	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.
<b>SIDE WALLS</b> <b>PANELS</b> <b>POSTS</b> <b>FASTENERS</b> <b>INTERIOR LINER</b> <b>INTERIOR LINER</b> <b>SAMPLE DOOR(S)</b> <b>TOP RAILS</b> <b>BOTTOM RAILS</b> <b>VENTS</b> <b>POSTS</b>	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
<b>REAR END</b> <b>DOOR FRAME</b> <b>DOOR(S)</b>  <b>HEADER</b> <b>DOOR LATCH(S)</b> <b>HINGES</b> <b>DOOR HOLDBACKS</b> <b>DOOR FRAME BUMPER</b>  <b>BUMPER</b>  <b>DOOR LOCK(S)</b> <b>LOOP STEP(S)</b>	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.
<b>ROOF</b> <b>BOWS</b> <b>TARP SUPPORT</b> <b>NET</b>	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).
<b>INSULATION</b> <b>FRONT WALL</b>  <b>FRONT INTERIOR LINER</b>  <b>REAR DOOR(S)</b> <b>DOOR(S) LINER</b>  <b>SIDE WALLS</b> <b>INTERIOR LINER</b>	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.
<b>ELECTRICAL</b> <b>CONNECTOR PLATE</b> <b>FRONT CONNECTOR</b> <b>FRONT ADD. CONNECTOR</b> <b>ELECTRICAL SYSTEM</b> <b>MAIN SYSTEM</b>  <b>FLASHERS</b>  <b>BACK UP LIGHTS</b>  <b>TAIL LIGHTS</b>	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
<b>MAIN SYSTEM</b> <b>INSIDE SPOT LIGHTS</b>  <b>ADDITIONAL MARKERS</b>	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.
<b>LANDING GEAR</b> <b>SAND SHOES</b> <b>CRANK</b> <b>SPAN</b>	Holland, Mark V (LGS-3C315), 10" x 11 1/2", solid axles. Road side. 3/16" formed steel, reinforced, galvanized.
<b>BASIC MECHANICAL</b> <b>FRAME</b>	Fixed, for wedge sub-structure, 1/4" thick, C-shaped, frame construction, bolted connection, 60" spread tridem air ride suspension.
<b>MECHANICAL</b> <b>SUSPENSION</b>  <b>STROKE STOPPERS</b>  <b>LIFT SUSPENSION</b>  <b>SPRINGS</b> <b>AXLES</b> <b>SPIDERS</b> <b>CAM SHAFTS</b> <b>TRACK</b> <b>DUST SHIELDS</b> <b>BRAKES</b> <b>BEARINGS</b> <b>SLACK ADJUSTERS</b> <b>SEALS</b> <b>BRAKE CHAMBERS</b> <b>HUBS AND DRUMS</b> <b>RIMS</b>  <b>RIMS</b> <b>SPACERS</b>  <b>TIRES</b>	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.
<b>AIR SYSTEM</b> <b>GLAD HANDS</b>	Fixed, bolted.



ITEM	DESCRIPTION
<b>AIR VALVES VALVE</b>	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.
<b>CONTROL BOX AUTOMATIC TIRE INFLATION</b>	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.
<b>ACCESSORIES</b> <b>REGISTRATION HOLDER</b> <b>MUD FLAPS</b> <b>HYDR. CONN. (PRESSURE)</b> <b>HYDR. CONN. (RETURN)</b> <b>HYDRAULIC LINES</b> <b>HYDRAULIC LINES</b>  <b>EXTRA MUD FLAPS</b>  <b>ANTI-SAIL BRACKETS</b>	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.
<b>FINISHING</b> <b>UNDERCARRIAGE</b> <b>BOGIE</b> <b>HUBS</b> <b>WHEELS OR RIMS</b> <b>RETROREFLECTIVE TAPES</b>	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.
<b>GALVANIZED CHOICES</b> <b>SUB-STRUCTURE (GALV.)</b>	Galvanized choices. Galvanized, cross members, "C" frame for tridem and landing gear structure included. (sub-structure galvanized all over except coupler)
<b>CONFORMITY</b>	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.