

# HALE





## TRAILER

### BRAKE & WHEEL


**A020856**  
**VIN: 229835**

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| ITEM                     | DESCRIPTION   |
|--------------------------|---|
| <b>TYPE</b>              | CHIPS TRAILER   |
| <b>APPLICATION</b>       | GALVANIZED SEE SECTION   |
| <b>DIMENSIONS</b>        |   |
| <b>LENGTH</b>            | 48'-0" (14630 mm)   |
| <b>WIDTH</b>             | 102 3/8" (2600 mm)  |
| <b>HEIGHT</b>            | 13'-6" coupler height: 50"  |
| <b>WEDGE HEIGHT</b>      | 7" front to rear.   |
| <b>SUB-STRUCTURE</b>     |   |
| <b>KING PIN LOCATION</b> | 36" from front. (900 mm)  |
| <b>KING PIN</b>          | Bolted, 2" diameter, Holland, KP-0882.  |
| <b>COUPLER PLATE</b>     | Approach plate and coupler plate 3/8". (ilo 5/16")  |
| <b>CROSSMEMBERS</b>      | 1 beams, 4" @ 3.2 lbs/ft, 80 000 psi steel, 12" center to center, GALV  |
| <b>FLOOR</b>             | Preparation for walking floor installed at Manac.   |
| <b>FLOOR</b>             | Walking Keith 7/32" straight, (2190/2191) 48'-0", **GALVANIZED**<br>3 1/2" cylindre. Bolted aluminum subdeck #2469, splash guard #2468 full length<br>T-block included.<br>(application galvanized sub-structure)<br><br>Walking floor deflector with rubber flat at bottom to avoid material to go behind. |
| <b>FRONT WALL</b>        | Type: "G" (5" radius corners).  |
| <b>PANELS</b>            | Stainless steel mirror finish, no paint.  |
| <b>POSTS</b>             | Qty: 6, 4 of 45 mm, aluminum, and 1 each end, integrated to aluminum front corners.   |
| <b>FASTENERS</b>         | 3/16" stainless steel rivets, 4" c/c and 2" c/c on joints.  |
| <b>INTERIOR LINER</b>    | See insulation section.   |
| <b>FRONT CORNERS</b>     | Double sheating, 20 gauge stainless steel mirror finished on the outside and unpolished aluminum extrusions.  |
| <b>LADDERS</b>           |   |
| <b>CAT WALK</b>          | Aluminum, 24" wide on front wall, ladder, made of aluminum, roadside included.  |
| <b>FRONT DOOR</b>        | One, 25" x 47", panel 3/4" plymetal doors, aluminum prepainted ***BLACK outside and satin coated steel inside.<br>Including one molded aluminum foot step above connector.  |
| <b>HOSES HOLDER</b>      | For access inside van,<br>Located on the front above connection.<br>Application hinger for hydraulics hoses of the mobil floor.<br>Hanger see annex 241458.   |
| <b>SIDE WALLS</b>        | Aluminum.   |
| <b>PANELS</b>            | Prepainted black aluminum 0.049 thick.  |
| <b>POSTS</b>             | Aluminum, 45 mm, 16" c/c, full length.  |



| ITEM   | DESCRIPTION  |
|--|--|
| <b>FASTENERS</b><br><b>INTERIOR LINER</b><br><b>INTERIOR LINER</b><br><b>SAMPLE DOOR(S)</b><br><b>TOP RAILS</b><br><b>BOTTOM RAILS</b><br><b>VENTS</b><br><b>POSTS</b>   | 3/16" aluminum rivets, 4" c/c and 2" c/c on joints.<br>See insulation section.<br>Horizontal.<br>None.<br>5 1/2" high, open top aluminum extrusions, unpolished.<br>8 7/8" high, aluminum extrusions, unpainted.<br>None, request from customer.<br>Posts at 12" c/c for last three side panels.   |
| <b>REAR END</b><br><b>DOOR FRAME</b><br><b>DOOR(S)</b><br><b>HEADER</b><br><b>DOOR PANELS</b><br><b>DOOR LATCH(S)</b><br><b>HINGES</b><br><b>DOOR HOLDBACKS</b><br><b>DOOR FRAME BUMPER</b><br><br><b>BUMPER</b><br><br><br><b>DOOR LOCK(S)</b><br><b>LOOP STEP(S)</b> | Galvanized steel (G164).<br>Double, swing type, aluminum.<br>Steel formed 4" x 4" x 3/16".<br>***Prepainted BLACK aluminum 0.049 thick.<br>Single, Eberhard 1969-U.<br>3 per door, aluminum.<br>Chain and hook type, including stabilizing rubber stoppers.<br>1 1/2"x 1 1/2" solid steel push bars, more extension bolted 5" with integrated holes for pull.<br>CMVSS 223-RIG approved (in accordance with Canada & USA regulation).<br>Formed steel uprights, 4" x 4" cross bar roll formed tubing at a maximum height of 22" from under tubing to ground.<br>Security type, road side.<br>Between bumper uprights, galvanized, tubing 3" x 3" X 1/4" with anti-skid FULL LENGTH on top. |
| <b>ROOF</b><br><b>BOWS</b><br><b>TARP SUPPORT</b><br><b>NET</b>  | Open type.<br>Qty: 3, galvanized steel (G164), without offset and hinges.<br>1/4" aluminum plate at each end of the unit for roll tarp type.<br>None, (NO HOOK FOR NET).   |
| <b>INSULATION</b><br><b>FRONT WALL</b><br><br><b>FRONT INTERIOR LINER</b><br><br><br><b>SIDE WALLS</b><br><b>INTERIOR LINER</b>  | 1 3/4" thick Polyform.<br>Front corners, 1" thick Polyform.<br>Kemlite white "monster scuff", .240" thick, fastened with steel pop rivets.<br><br>1 3/4" thick Polyform.<br>Kemlite LTR, .120" thick, fastened with steel pop rivets.  |
| <b>ELECTRICAL</b><br><b>CONNECTOR PLATE</b><br><b>FRONT CONNECTOR</b><br><b>FRONT ADD. CONNECTOR</b><br><b>ELECTRICAL SYSTEM</b><br><b>MAIN SYSTEM</b><br><br><b>FLASHERS</b>  | Raised, aluminum formed plate.<br>7 ways (SAE J560), Phillips brand, located center.<br>7 ways (ISO 3731), for auxiliary functions only.<br>Shock proof lights, polycarbonate lenses, in compliance with CMVSS 108.<br>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.<br>Sealed beams LED, one lamp including side marker and flasher each side at middle point, amber.   |



| ITEM  | DESCRIPTION   |
|---|---|
| <b>BACK UP LIGHTS</b>                                   | Type sealed beam spot light (Grote #62391 LED), Qty: 2 (in the sill)  |
| <b>TAIL LIGHTS</b>                                      | Sealed beams, red, (Grote LED #53252). Qty: 1 additional each side. (10 diodes)<br>From outside, tail light and flasher, flasher with parking, brake with parking.  |
| <b>MAIN SYSTEM INSIDE SPOT LIGHTS</b>                   | With additional vapor proof junction box Truck-Lite #50400.<br>Back up light type, LED sealed beam (Grote #62401) 54 diodes, qty: 1, fixed FRONT top corner with Switch on front bottom rail road side.<br>To light the inside.   |
| <b>ADDITIONAL MARKERS</b>                               | Sealed beams (Grote MicroNova LED #47963/62). Qty: 18 additional each side, evenly spaced, evenly spaced, on bottom rails and 12" under top rail.<br>for tarp application. SNAP-IN GROMMET  |
| <b>AUTOMATIC TIRE INFLATION</b>                         | Automatic Tire inflation featuring ONLY:<br>Warning lamp TIREMAAX installed std on road side FRONT CORNER.<br>Must be visible from the truck. (Hendrickson only)  |
| <b>ADDITIONAL MARKERS</b>                               | Sealed beams (Grote MicroNova LED #47963/62). Qty: 9<br>***LOCATED ON REAR TOP RAIL ABOVE SWING DOORS<br>REF#221628 GLOBOCAM  |
| <b>BACK UP LIGHTS</b>                                   | Qty: (2), tractor type sealed LED beam lights (Grote #64G51, TRILLANT), to light up toward the rear.<br>Must be connected with rear back up lights.<br>Located: REAR OF LANDING GEAR  |
| <b>LANDING GEAR SAND SHOES CRANK SPAN</b>               | Holland, Mark V (LGS-3C315-CS748), with mounting plate sand shoes 10" x 11 1/2" solid axles.<br>Galvanized legs option.<br>***LOCATED 12" REAR OF STANDARD REF#221628<br>10" x 11 1/2", solid axles.<br>Road side.<br>3/16" formed steel, reinforced, galvanized.                               |
| <b>BASIC MECHANICAL FRAME ADDITIONNAL BOGIE (GALV)</b>  | Fixed, for wedge sub-structure, 1/4" thick, C-shaped, frame construction, plug welded connection<br>***60" spread tridem air ride suspension.<br>Galvanized, Fixed, 1/4" thick steel, C-shaped frame, x about 102", bolted under crosmembers to receive galv. Walking Keith floor power unit.   |
| <b>MECHANICAL SUSPENSION SUSPENSION (INTRAAX)(HXL5)</b> | Hendrickson INTRAAX disc brake AAT-30K, tridem, 60" spread. (Hendrickson MAXX22T). Bearing HM 518445. 77" track.<br>OPTION "EXTENDED LIFE HXL5 PACKAGE" ON INTRAAX AAT,30K.<br>Seals (Hendrickson), spindle nut (Precision), hub cap (Hendrickson)<br>Synthetic GREASE included. CHAMBER 20/24. |



| ITEM                            | DESCRIPTION  |
|---------------------------------|--|
| <b>STROKE STOPPERS</b>          | Retaining chains for INTRAAX air suspensions with grounded axles.  |
| <b>LIFT SUSPENSION</b>          | Air lift Hendrickson "UBL-102". **bolted and galvanized**.<br>Quick and brake release valves on air lift suspension.<br>***REAR AXLE***  |
| <b>SPRINGS</b>                  | Air.   |
| <b>AXLES</b>                    | LDA, 5 3/4" diameter, 25 000 lbs. capacity.  |
| <b>SPIDERS</b>                  | Welded.  |
| <b>CAM SHAFTS</b>               |  |
| <b>TRACK</b>                    | 77 1/2".   |
| <b>DUST SHIELDS</b>             | Steel, clamped.  |
| <b>BRAKES</b>                   | DISC   |
| <b>BEARINGS</b>                 | HM 518445.   |
| <b>SLACK ADJUSTERS</b>          |  |
| <b>SEALS</b>                    | Hendrickson (synthetic grease)   |
| <b>BRAKE CHAMBERS</b>           |  |
| <b>HUBS AND DRUMS</b>           | For dual aluminium wheels.   |
| <b>RIMS</b>                     | Alcoa, aluminum, half inside polished (Dura-Bright) and half "ULTRA ONE" finish, 22.5 x 8.25, disc (10 holes), 285.75mm B.C., single flange nuts.  |
| <b>SPACERS</b>                  | Wheel guard 10 holes. Located between the inside wheel and the drum and between two wheels.  |
| <b>TIRES</b>                    | Continental, 11 R 22.5 HSR-2                      16 ply      (41.6")  |
| <b>AIR SYSTEM</b>               |  |
| <b>GLAD HANDS</b>               | Fixed, bolted.   |
| <b>AIR VALVES</b>               | Meritor Wabco, ABS, 2 sensors 1 modulator.   |
| <b>VALVE</b>                    | 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</b>              | Stainless steel  |
| <b>AUTOMATIC TIRE INFLATION</b> | "Automatic Tire Inflation Systems", REMARK: Make sure the system is adjusted to the same tires pressure written on the serial plate.   |
| <b>AUTOMATIC TIRE INFLATION</b> | Automatic Tire inflation System Hendrickson Tiremaax PRO.<br>Axles preparation included, dressed axles HN/HP or disc brake.<br>*** Maximum allowable tire pressure for this device is 120psi ***<br>Warning lamp TIREMAAX installed on road side front radius. |
| <b>VALVES</b>                   | Used to close the supply of air to air bags. (2 per axle)(shutt off).<br>Note: Not valide on steer axle  |
| <b>LOAD DEVICE</b>              | Air gage, 4" diameter, glycerin filled in P.S.I. to indicate load with a conversion table, with glad hand with valve for closed the air line of of the truck.  |



| ITEM  | DESCRIPTION   |
|---|---|
|   | Located: On front wall roadside, 1'-4" up from bottom rail.   |
| <b>ACCESSORIES</b><br><b>REGISTRATION HOLDER</b><br><b>MUD FLAPS</b><br><b>HYDRAULIC LINES</b><br><br><b>HYDR. CONN. (PRESSURE)</b><br><b>HYDR. CONN. (RETURN)</b><br><b>HYDRAULIC LINES</b><br><b>HYDRAULIC LINES</b><br><br><b>EXTRA MUD FLAPS</b><br><br><b>EXTRA MUD FLAPS</b><br><br><b>MIDDLE MUDS FLAP</b> | <p>One aluminum cylinder.</p> <p>One set, rubber with Manac logo and vertical grooves to reduce spray.</p> <p>Located curb side instead of road side.</p> <p>Application Mobil floor for chip van.</p> <p>Male, 1" diameter, quick coupling.</p> <p>Female, 1" diameter, quick coupling.</p> <p>Hydraulic oil. Operating temperature -10 to 60 degree Celsius.</p> <p>Minimum pump data required :</p> <p>Operation pressure : 2800 psi</p> <p>Pump : 30 to 35 gpm</p> <p>Tank : 35 gallons</p> <p>Qty: 3 sets, rubber with Manac logo and vertical grooves to reduce spray.</p> <p>Located at REAR OF EACH AXLE AND FULL WIDTH AT REAR</p> <p>Hydraulic control for mobil floor with lever extension.</p> <p>Qty: 1 set, rubber with Manac logo and vertical grooves to reduce spray.</p> <p>Located at FRONT OF LANDING GEAR</p> <p>Center mud flaps, full width (48" wide) with Manac logo.</p> <p>Located ahead of the tridem.</p> <p>(To protect air booster &amp; the suspensions).</p> |
| <b>FINISHING</b><br><b>UNDERCARRIAGE</b><br><b>BOGIE</b><br><b>HUBS</b><br><b>WHEELS OR RIMS</b><br><b>AXLES</b><br><b>RETROREFLECTIVE TAPES</b>  | <p>GALV</p> <p>GALV</p> <p>Painted with acrylic urethane paint, same color as axles.</p> <p>Natural.</p> <p>Painted with polyurethane acrylic paint, color: BLACK , code: STD MANAC</p> <p>Conspicuity striping in compliance with CMVSS 108.</p> <p>Gray and red, 2' segments at bottom of each side wall.</p> <p>Fully covers bottom of rear doors and horizontal underride protection bar.</p> <p>2 segments of gray tape at each upper corner.</p>  |
| <b>GALVANIZED CHOICES</b><br><b>COUPLER</b><br><br><b>SUB-STRUCTURE (GALV.)</b>   | <p>Galvanized choices.</p> <p>Galvanised.</p> <p>Galvanized, cross members, "C" frame for tridem and landing gear structure included.</p> <p>(sub-structure galvanized all over except coupler)</p>   |
| <b>CONFORMITY</b>   | <p>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.</p>   |

DISCLAIMER

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