



## Hale Trailer Brake & Wheel

### 196764-196765



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: 48"
<b>WEDGE HEIGHT</b>	5" 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>	Approche plate and coupler plate 3/8".
<b>CROSSMEMBERS</b>	I beams, 4" @ 3.2 lbs/ft, 80 000 psi steel, 12" center to center,
<b>FLOOR</b>	Preparation for walking floor installed at Manac.
<b>FLOOR</b>	Walking Keith *1/2" straight, (*2299/2300-1212) 48'-0", 3 1/2" cylindre.
	Bolted aluminum subdeck #2469, splash guard 2468 full lenght,
	T-block included.
	Walking floor deflector with rubber flat at bottom to avoid materiel to go behing.
<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, 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>	Aluminum.
<b>PANELS</b>	Prepainted black aluminum 0.049 thick.
<b>POSTS</b>	Aluminum, 45 mm, 16" c/c, full length.
<b>FASTENERS</b>	3/16" aluminum rivets, 4" c/c and 2" c/c on joints.
<b>INTERIOR LINER</b>	See insulation section.
<b>INTERIOR LINER</b>	Horizontal.
<b>SAMPLE DOOR(S)</b>	None.
<b>TOP RAILS</b>	5 1/2" high, open top aluminum extrusions, unpolished.
<b>BOTTOM RAILS</b>	8 7/8" high, aluminum extrusions, unpainted.
<b>VENTS</b>	6 openings 11" x 19" on each side wall with perforated aluminum plate.
<b>POSTS</b>	Posts at 12" c/c for last three side panels.



ITEM	DESCRIPTION
<b>REAR END</b>	
<b>DOOR FRAME</b>	Galvanized steel (G164).
<b>DOOR(S)</b>	Combined, galvanized steel dump and swing type, prepainted aluminum at bottom and 2 blower doors 36 1/2" x 41 1/2" aluminum prepainted at top. Hinge(s) on each corner.
<b>HEADER</b>	Steel formed 4" x 4" x 3/16".
<b>DOOR LATCH(S)</b>	Single, Eberhard 1969-U.
<b>HINGES</b>	3 per door, aluminum.
<b>DOOR HOLDBACKS</b>	Chain and hook type, including stabilizing rubber stoppers.
<b>DOOR FRAME BUMPER</b>	1 1/2"x 1 1/2" solid steel push bars, more extension bolted 5" with integrated holes for pull.
<b>BUMPER</b>	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.
<b>DOOR LOCK(S)</b>	Security type, road side.
<b>LOOP STEP(S)</b>	Between bumper uprights, galvanized, tubing 3" x 3" X 1/4" with anti-skid on top and bolted at each end.
<b>BUMPER</b>	Holes ready for 6 extra lights cut in an aluminum plate **full height** between bumper uprights and the bumper tubing. (rear completely closed **between** bumper upwrighs). ref: 191282
<b>ROOF</b>	Open type.
<b>BOWS</b>	Qty: 3, galvanized steel (G164), without offset and hignes.
<b>TARP SUPPORT</b>	1/4" aluminum plate at each end of the unit for roll tarp type.
<b>NET</b>	None, (NO HOOK FOR NET).
<b>INSULATION</b>	
<b>FRONT WALL</b>	1 1/2" thick Polyform. Front corners, 1" thick Polyform.
<b>FRONT INTERIOR LINER</b>	Kemlite white "monster scuff", .240" thick, fastened with steel pop rivets.
<b>REAR DOOR(S)</b>	1 1/2" thick Polyform.
<b>DOOR(S) LINER</b>	Prepainted BLACK aluminum 0.049 thick. Natural aluminum inside the van.
<b>SIDE WALLS</b>	1 1/2" thick Polyform.
<b>INTERIOR LINER</b>	Kemlite LTR, .120" thick, fastened with steel pop rivets.
<b>ELECTRICAL</b>	
<b>CONNECTOR PLATE</b>	Raised, aluminum formed plate.
<b>FRONT CONNECTOR</b>	7 ways (SAE J560), Phillips brand, located center.
<b>FRONT ADD. CONNECTOR</b>	7 ways (ISO 3731), for auxiliary functions only.
<b>ELECTRICAL SYSTEM</b>	Shock proof lights, polycarbonate lenses, in compliance with CMVSS 108.
<b>MAIN SYSTEM</b>	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.
<b>FLASHERS</b>	Sealed beams LED, one lamp including side marker and flasher each side at middle point, amber.
<b>BACK UP LIGHTS</b>	Sealed beam spot light (Grote #40-4411-00 in a closed back rubber grommet), Qty: 2



ITEM	DESCRIPTION
TAIL LIGHTS	Sealed beams, red, (Grote LED #53252). Qty: 1 additionnal each side. (10 diodes) From outside, tail light and flasher, flasher with parking, brake with parking.
MAIN SYSTEM	With additional vapor proof junction box Truck-Lite #50400.
INSIDE SPOT LIGHTS	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 toward the front. Ref: 179451***
ADDITIONAL MARKERS	Sealed beams (Grote MicroNova LED #47952/53) with chrome rings. Qty:36 Qty: 18 extra each side, evenly spaced at 12" below the top rail and on bottom rail. **See approve drawing**.
AUTOMATIC TIRE INFLATION	Automatic Tire inflation featuring ONLY: Warning lamp TIREMAAX installed S.T.D on road side FRONT CORNER. Must be visible from the truck.
TAIL LIGHTS	Sealed beams, red, (Grote LED #53252). Qty: 6 (10 diodes) Located: on aluminum plate between bumper uprights. From outside, (2) tail light and flasher, (4) tail light with brake between.
LANDING GEAR	Holland, Mark V (LGS-3C315),
SAND SHOES	10" x 11 1/2", solid axles.
CRANK	Road side.
SPAN	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	Hendrickson INTRAAX AAT-30K, spacer, tridem, ***60" spread. N.B.: Wingless suspension bracket. For axles with bearings HM 518445.
STROKE STOPPERS	Retaining chains for INTRAAX air suspensions with grounded axles.
LIFT SUSPENSION	Air lift Hendrickson "UBL-102". **BOLTED KIT-GALVANIZED**. Quick and brake release valves on air lift suspension. Located ****REAR AXLE***
SPRINGS	Air.
AXLES	LDA, 5 3/4" diameter, 25 000 lbs. capacity.
SPIDERS	Welded.
CAM SHAFTS	10" long, 28 splines with enclosures.
TRACK	77 1/2".
DUST SHIELDS	Steel, clamped.
BRAKES	16 1/2" standard, long life H23-HXS Hendrickson lining.
BEARINGS	HM 518445.
SLACK ADJUSTERS	Meritor, automatic, 28 splines.
SEALS	Stemco, "Guardian" type, with "Gearlube" mineral oil, SAE 80W90.
BRAKE CHAMBERS	T.S.E. brake, "Omnibrake" (30-30), (push rod 9 3/4"). (4 years warranty by T.S.E. for parts only).



ITEM	DESCRIPTION
<b>HUBS AND DRUMS</b>	WEBB, 10 studs disc hubs, balanced drums 104.5 lbs, outboard mount, 285.75mm B.C., single flange nuts. For dual aluminium wheels.
<b>RIMS</b>	Alcoa, aluminum, half "ULTRA ONE" and half steel. 24.5 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 24.5 HSR-2                      16 ply      (43.5")
<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 System Hendrickson Tiremaax CP.
<b>AUTOMATIC TIRE INFLATION</b>	Automatic Tire inflation FEATURING ONLY: PRO de Tiremaax. TRIDEM.
<b>LOAD DEVICE</b>	Air gage, 4" diameter, glycerin filled in P.S.I. to indicate load with a conversion table. Located: On front wall roadside, 1'-4" up from bottom rail.
<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>ACCESSORIES</b>	
<b>REGISTRATION HOLDER</b>	One aluminum cylinder.
<b>MUD FLAPS</b>	One set, rubber with Manac logo and vertical grooves to reduce spray.
<b>HYDR. CONN. (PRESSURE)</b>	Male, 1" diameter, quick coupling.
<b>HYDR. CONN. (RETURN)</b>	Female, 1" diameter, quick coupling.
<b>HYDRAULIC LINES</b>	Hydraulic oil. Operating temperature -10 to 60 degree Celsius.
<b>HYDRAULIC LINES</b>	Minimum pump data required : Operation pressure : 2800 psi Pump : 30 to 35 gpm Tank : 35 gallons
<b>EXTRA MUD FLAPS</b>	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>	Galv.
<b>BOGIE</b>	Galv
<b>HUBS</b>	Black.
<b>WHEELS OR RIMS</b>	Natural aluminum and white steel (Powder top coat).
<b>RETROREFLECTIVE TAPES</b>	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.



ITEM	DESCRIPTION
ANNEX(ES) ATTACHED R	ref:179459
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.
<p>DISCLAIMER</p> <p>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.</p>	