



# Hale Trailer Brake & Wheel

## 199074



ITEM	DESCRIPTION
<b>TYPE</b>	LOG TRAILER, DROP
<b>DIMENSIONS</b>	
<b>LENGTH</b>	48'-0 " overall.
<b>WIDTH</b>	102".
<b>HEIGHT</b>	Nominal, 13'-6" high, top of frames approximately 61" high at front and 49" at rear. (Canada & USA application)
<b>DROP HEIGHT</b>	10" approximately.
<b>COUPLING</b>	
<b>COUPLER PLATE</b>	3/8", 100 000 psi. steel, plug welded reinforced structure.
<b>KING PIN LOCATION</b>	36" from front.
<b>KING PIN</b>	Bolted, 2" diameter, Holland, KP-0882.
<b>COUPLER HEIGHT</b>	50"
<b>STRUCTURE</b>	Frame with "CAMBER".
<b>FLANGES</b>	3/8" x 6", 100 000 psi steel.
<b>WEB</b>	1/4" plate full length, 80 000 psi steel, with holes, parachute shaped, to lighten trailer.
<b>FRAME BRACING</b>	
<b>GOOSENECK</b>	11" high, with integrated nose ramp and 48" straight behind king pin.
<b>CROSSMEMBERS</b>	"C" shaped plate, 80 000 psi steel, between main beams. Instead of I beams, 4" à 3.64 lbs/ft, 80 000 psi steel.
<b>FLOOR</b>	1/8", 100 000 psi steel between main beams, full length, (no wood flooring at all). *** Floor same height from one side to the other *** *** With hole for loader and cover with a bolted floor section ***
<b>FLOOR FASTENING</b>	Fully welded on length, and at joints.
<b>CORNERS</b>	Square.
<b>FENDERS</b>	Steel plate 1/8" 100 000 psi., above truck wheels, sloping.
<b>GRAPPLE GUIDES</b>	Qty: 3, 3/8" reinforcement set, each side of frame in web, to stop grapple from hitting the flanges. Located : MIDDLE OF EACH TIER (no deflector in face of fenders)
<b>BRACING FOR LOADER</b>	Stiffeners at 6" c/c on the outside of frames in the web, strap 4" x 3/8" at bottom in stiffener area.
<b>ENDS</b>	
<b>FRONT RAIL</b>	3/16" thick formed plate, 80 000 psi steel.
<b>BUMPER</b>	Forestry type, tubing with integrated push & pull plates installed on bumper uprights.
<b>BUMPER</b>	Round tube 6 5/8" x 56". Start tube 6" from rear, exceeds 14".
<b>POCKETS</b>	2 boxes welded on front rail for removable headboard.
<b>LOGGING</b>	
<b>BUNKS</b>	5 lengths of 8', 4 of 12', 3 of 16' or full length logs. 5 fixed sets of bunks with fabricated boxes. Located: First at 15 1/2" from front, then 73 1/2", 57", 53", 56", 70", 56", 53", 59" & 70 1/4". (Sappi).
<b>BUNKS</b>	First 2 at front, 4 1/2" x 7" height, (flanges plate 1/4" 100 000 psi steel and webs one each side 3/16" 80 000 psi steel),



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<b>BUNKS</b>	double post boxes on first bunk.
<b>BUNKS</b>	Central section, 4 1/2" x 5" height, (flanges plate 1/4" 100 000 psi steel and webs one each side 3/16" 80 000 psi steel).
<b>BUNK ANGLES</b>	Rear, 10 1/2" x 9 3/4" height, (formed 3/16" "V" plate with 1/4" top plate, 80 000 psi steel), with double boxes.
<b>STAKES</b>	Steel ridge 1/2" x 1 1/2" installed on last bunk to hold tree length lumber.
<b>GLAD HANDS PROTECTOR</b>	Qty: 20, ultra light, galvanised (G164), bottom 4" x 4", curved, 80 000 & 100 000 psi steel.
<b>RAISERS</b>	3/8" thick plate, welded at front rail.
<b>BUNKS</b>	None.
	Qty: 1 Set of double post box.
	Located: BUNK #4.
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<b>ELECTRICAL</b>	
<b>FRONT CONNECTOR</b>	7 ways (SAE J560), Phillips brand.
<b>FRONT ADD. CONNECTOR</b>	7 way (ISO 3731), for auxiliary functions only.
	*** Air lift ***
<b>ELECTRICAL SYSTEM</b>	Shock proof lights, polycarbonate lenses, in compliance with CMVSS 108.
<b>MAIN SYSTEM</b>	Grote Ultra Blue LED, sealed beams, tail lights with male pins #53252 (10 diodes), markers lights Micronova #47973, identification lights #47122 (2 1/2" dia.), licence light #60280-M).
<b>TURN SIGNAL</b>	Sealed beams LED, one lamp including side marker and flasher, each side at middle point, amber.
<b>BACK UP LIGHT(S)</b>	LED spot light in a vinyl angled grommet.
	Qty: 2
<b>TAIL LIGHTS</b>	Qty: (4) extra sealed lamps L.E.D. (red), rear lights with *** 10 diodes *** (Grote #53252-3).
	Located: On each side between bumper uprights on cross bar. (Total: 10).
<b>TAIL LIGHTS</b>	Sealed beams (Grote DEL #53252, 10 diodes) red. Qty: 1 additionnal each side.
	From outside, tail lights and flasher, brake with parking, brake with parking.
<b>BACK UP LIGHTS</b>	(2) Tractor type sealed LED beam spot light (Grote #64G51), to light up toward the rear. Must be connected with back up light.
	Located: UNDER 4TH BUNK FROM FRONT
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<b>LANDING GEAR</b>	Holland, Mark V (LGS-4F315), with mounting plate.
<b>SAND SHOES</b>	10" x 11 1/2", solid axles.
<b>CRANK</b>	Road side.
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<b>BOGIE</b>	
<b>BASIC SUSPENSION</b>	Hendrickson INTRAAX disc brake AAT-30K (Bendix), tridem, 60" spread.
<b>SUSPENSION</b>	For axles with bearings HM 518445.
	*** Braking capacity reduced ***
	*** Hendrickson strongly recommand for asphalte roads only ***
	Easy for rocks to infiltrate between the discs and pads.



ITEM	DESCRIPTION
<b>STROKE STOPPERS</b>	Retaining chains for INTRAAX air suspensions with grounded axles.
<b>LIFT DEVICE</b>	Hendrickson "UBL102", bolted (removable) and galvanized, with air system Manac. Located: AT REAR.
<b>SPRINGS</b>	Air.
<b>AXLE(S)</b>	LDA, 5 3/4" diameter.
<b>SPIDERS</b>	Welded.
<b>CAM SHAFTS</b>	
<b>TRACK</b>	77 1/2".
<b>DUST SHIELDS</b>	Steel, clamped.
<b>BRAKES</b>	Disc, Knorr-Bendix
<b>BEARINGS</b>	HP spindle.
<b>SLACK ADJUSTERS</b>	
<b>SEALS</b>	Stemco, "Gearlube" mineral oil, SAE 80W90.
<b>BRAKE CHAMBERS</b>	Knorr-Bendix 18/24
<b>HUBS AND DRUMS</b>	10 studs disc hubs, outboard mount, 285.75mm B.C., single flange nuts. For dual aluminium wheels.
<b>RIMS</b>	Alcoa, aluminum, "ULTRA ONE", 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>RIMS</b>	*** Those standard aluminum rims are not covered by a warranty for an off road application. ***
<b>AIR SYSTEM</b>	
<b>GLAD HANDS</b>	Fixed.
<b>AIR VALVES</b>	Meritor Wabco, ABS, 2 sensors 1 modulator.
<b>VALVE</b>	Quick and brake release valves on air lift.
<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>VALVES</b>	Used to close the supply of air to air bags. (2 per axle) (shutt off).
<b>ACCESSORIES</b>	
<b>REGISTRATION HOLDER</b>	One plastic, Betts-PS-1 or equivalent.
<b>WINCHES</b>	Qty: 2, #3820SDSPCNP (5") fix, encaved, located road side between first set. *** include lashing ring rear side of winch to secure strap hooks when empty
<b>WINCHES</b>	Qty: 8, #3820SDSPCNP (5") fix, tilted 45 degrees, located road side between bunks. ***include lashing ring rear side of winch to secure strap hooks when empty
<b>WINCHES</b>	Handle welded on each winch.
<b>STRAPS</b>	Qty: 10, nylon, with 1'-6" chain and grab hook, 30' long x 3" wide. (KINEDYNE)
<b>LASHING RINGS</b>	Qty: 10, lashing pockets on the opposite side of winch's.
<b>MUD FLAPS</b>	Three fix sets, rubber with Manac logo and vertical grooves to reduce spray, located ahead of landing gear, at rear bumper and at front.
<b>CHAIN HOLDERS</b>	(4) welded under the bunk, 2 each side of main frame.



ITEM	DESCRIPTION
HYDRAULIC LINES	Holes only, 3" of diameter allowing hydraulic lines to run between the main beams over the coupler plate. Supports of lines welded under bunks until the loader.
EXTRA MUD FLAP	4 holes, (2 holes curbside and 2 holes roadside). Black rubber w/logo Manac, logo toward the front (#303-0011). Located: Under the flanges & ahead of the suspensions, 48" wide. (To protect air booster & the suspensions). Ref. 186908.
RAISER SUPPORTS	(2) welded to web. The raisers hold in place with a strap and a winch. (Can hold 5 raisers) Located: 1/SIDE.
FINISHING PAINT FINISHING	No paint & no primer on the trailer. Trailer prepared & shipped to be galvanized. *** CAUTION MANAC NOT RESPONSABLE OF THE ESTHETICS OF THE GALVANISATION *** (holes parachute shaped required for dripping)
HUBS WHEELS OR RIMS RETROREFLECTIVE TAPES	Black. Natural. Conspicuity striping in compliance with CMVSS 108. Gray and red, each side, fully covers rear sill and horizontal underride protection bar, front and rear of each stake.
ANNEX(ES) ATTACHED	Mark and model of loader:TBA Supplied by:TBA Installed by:TBA Fixed by ("U" bolts or others):TBA Appr. weight:TBA
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

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