



Hale Trailer Brake & Wheel

A008619-A008624

VIN: 216685-216690



| ITEM | DESCRIPTION |
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| TYPE | SEMI-TRAILER, "DARKWING II" ALUMINUM DROP PLATFORM |
| DIMENSIONS | |
| LENGTH | 53'-0" |
| WIDTH | 102", 97" between side rails. |
| HEIGHT | Floor, approximately 59" high at front and 36" at the bumper. |
| DROP HEIGHT | 25", located at 10'-6" from front. |
| COUPLING | |
| COUPLER PLATE | 1/4", galvanised (G164) 80 000 psi steel, plug welded structure. |
| KING PIN LOCATION | 18" from front. |
| COUPLER HEIGHT | 48". |
| STRUCTURE | 42" center to center Frame with "CAMBER". |
| FLANGES | 3/8" x 5" , 100 000 psi steel in gooseneck and the remaining. Top, "T" shaped aluminum extrusion (6061-T6), with 2 Cargo Rail integrated by flange. Bottom, aluminum extrusion (6061-T6) 4" x 1 1/2". |
| WEB | 3/16" plate in king pin area, 80 000 psi steel and the remaining. 1/4" plate, polished aluminum (5454-H34), riveted at 3" c/c, 24 3/4" high including flanges. |
| GOOSENECK CROSSMEMBERS | 11 1/4" high, 48" straight behind king pin, galvanized steel (G164). 4" high extruded aluminum I beams, 16" c/c in gooseneck and the remaining 12" c/c. One additional crossmember at rear bumper. |
| FLOOR | Structural aluminum extrusions, flat type, inverted "T", 1 1/4" high with 3 Apitong or equivalent planks. |
| FLOOR FASTENING | Bolts with nuts on top flanges, screws on crossmembers, 2 rivets per Apitong plank at each crossmember. |
| SIDE RAILS | 3 3/4" x 5 13/16" high, extruded aluminum, Cargo Rail integrated. |
| SIDE BOXES | 3 5/8" x 1 5/8" inside, 4" high, extruded aluminum. CMVSS-905 WLL, 5,500 lbs WLL approved. |
| RUB RAILS | Aluminum extrusions 3/8" x 2 3/4". Dual rub rail spacers 1" x 1 3/4" as anchor. |
| CORNERS | Bevelled. |
| FENDERS | Reinforcement over tires at rear, floor full length. |
| KNEE BRACES | 1/4" formed aluminum plates, bolted in web and a crossmember, located each side. |
| BRACING FOR COILS | Qty:1 kit for a 60 000 lbs maximun coil. Made of 6 aluminum crossmembers "I" beams additional between main beams and crossmembers. Located: IN THE MIDDLE |
| ENDS | |
| FRONT RAIL | Bolted aluminum extrusion, 7" high, overlapped floor to allow floor plank to walk underneath. |
| BUMPER | CMVSS 223-RIG approved (in accordance with Canada & USA regulations). Aluminum, bolted uprights to frame, cross bar tubing 4" x 3/16" at a maximum height of 22" from under tubing to ground. |
| BUMPER | Aluminum plate with "DARKWING" logo on RED back plate, |



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| BUMPER REAR RAIL | bolted between bumper uprights to close rear. 2 heavy duty rubber dock at the end of rear rail. Aluminum extrusion, 6 1/2 high, 16000 lbs lift truck proof, including 3 boxes integrated. |
| ELECTRICAL FRONT CONNECTOR FRONT ADD. CONNECTOR | 7 way (SAE J560), Phillips brand. 7 way (ISO 3731), for auxiliary functions only. *** rear axle blow down valve *** *** run add. 7 way to junction box by front axle inside of frame *** |
| JUNCTION BOX + HARNESS EX | Add a junction box + 7 way harness. *** Install secondary plug to junction box by front axle inside of front *** |
| ELECTRICAL SYSTEM MAIN SYSTEM | Shock proof lights, polycarbonate lenses, in compliance with CMVSS 108. Grote Ultra Blue LED clear lens, sealed beams with stainless steel rings and anti-theft system, 10 diodes tail lights, markers lights Micronova, identification lights 2 1/2" dia., licence light. |
| FLASHERS | Sealed beams LED clear lens, one lamp including side marker and flasher, each side at middle point, amber. |
| TAIL LIGHTS | Sealed beams Grote LED #53252, (10 diodes) red, with stainless steel rings. Qty: 1 additionnal each side. |
| STROBE LIGHTS SWITCH ADDITIONAL MARKER(S) | (2), installed (1) on each side, (Grote 77353 amber) (rubber grommet) Sealed, to activate strobe lights, installed in the control box. Sealed beams, clear lens with chrome rings. Qty: 9 additionnal each side, evenly spaced. |
| LANDING GEAR SAND SHOES CRANK SPAN | Holland, ATLAS 55 (LG442B), with mounting plate. 10" x 10". Road side. Galvanized steel (G164) |
| BOGIE BASIC MECHANICAL BOGIE | Basic mechanical for sales book. Fixed front suspension and slider bogie at rear painted Z frame structure, 6.5" R.H., with "UHMV" slider plastic pads, 4 retainers and 4 pneumatic locking pins, tandem 54", 65" and 122" spread. |
| MECHANICAL (GROUND AXLES) SUSPENSION LIFT DEVICE U-BOLTS SPRINGS AXLE(S) CAM SHAFTS | Hendrickson HT-250US (6.5), tandem. For axles with bearings HM 218248 and HM 212049. Manac center lift kit, manually activated. Located: FRONT AXLE NO WARRANTY ON GROUND AXLES NOR THE TIRES ON THE AIR LIFT(S), ("Flat spot") *** Illegal in Quebec + Ontario if used on a 53'-0" *** *** If used with PAN 17, disc brake add 3" to the rear deck height *** *** For 17.5 drum brakes add 2". Mainbeams 16" high at rear *** With nuts at botton. Air. Hendrickson, HN-S505, 22 500 lbs. capacity. 28 splines. |



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| TRACK DUST SHIELDS BRAKES BEARINGS SLACK ADJUSTERS SEALS BRAKE CHAMBERS HUBS AND DRUMS RIMS SPACERS TIRES | 77 1/2". None. 12 1/4" standard, long life H20-HXS Hendrickson lining. HM 218248 and HM 212049 Haldex S-ABA, automatic, curved, 28 splines, (6"). Federal Mogul, with "Gearlube" mineral oil, SAE 80W90. T.S.E. brake, "Omnibrake" (30-30), long stroke. KIC, hub piloted wheel, 8 long studs 275mm B.C., balanced cast drums outboard mount. Alcoa, aluminum, inside polished 17.5 x 6.75, disc (8 holes), 275mm B.C., single flange nuts. Wheel guard 8 holes. Located between the inside wheel and the drum. Continental, 235/75 R 17.5 HTL-2 ECO-PLUS 18 ply (31.6") |
| AIR SYSTEM GLAD HANDS AIR VALVES VALVE(S) VALVE(S) CONTROL BOX | Fixed. Rockwell Wabco, ABS, 2 sensors 1 modulator. Manual blow down valve in a control box, with auto-reset feature, including Glycerin filled pressure gauge, in P.S.I., to indicate load with a conversion table. Blow down valve on REAR axle, controlled from the cab, activated when the cruising speed is lower than 16 Km (10 mph), warning light installed road side facing the axle when the blow down valve is activated, without break release. Stainless steel. |
| ACCESSORIES REGISTRATION HOLDER MUD FLAPS SLIDING TRACK WINCHES STORAGE BOX(ES) | One plastic, Betts-PS-1 or equivalent. One set, rubber with Manac logo and vertical grooves to reduce spray. Full length, "LL" extruded aluminum, road side. Qty: 15, KINEDYNE #1020ZP, zinc plated slider (low profil 5 7/8"). Qty: 2 , aluminum checker plate, double doors, hinges on sides, "anti-rack" handle lock style. 18" deep x **15*** high x 60" wide. By TREBOR. Located at (1) PER SIDE AHEAD OF SUSPENSION |
| FINISHING RETROREFLECTIVE TAPES WHEELS OR RIMS | Conspicuity striping in compliance with CMVSS 108. Gray and red each side, fully covers rear sill and horizontal underride protection bar. Natural aluminum. |
| R | Due to the deep backlogs, material/component availability and price fluctuation, Manac reserves the right to adjust the price based on these instabilities. If needed, Manac will contact the dealer or customer a minimum of 3 months prior to assembly with revised pricing or a change in components. |
| CONFORMITY | This semi-trailer does not comply with GHG regulations. Should GHG regulations come into force prior to the production of the trailer(s), |



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| | <p>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> <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> |