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VIN: 218355



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ITEM	DESCRIPTION
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	11 1/4" high, 48" straight behind king pin, galvanized steel (G164).
CROSSMEMBERS	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 45 000 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,



ITEM	DESCRIPTION
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	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 ***
U-BOLTS SPRINGS	With nuts at botton. Air.



ITEM	DESCRIPTION
AXLE(S)	Hendrickson, HN-S505, 22 500 lbs. capacity.
CAM SHAFTS	28 splines.
TRACK	77 1/2".
DUST SHIELDS	None.
BRAKES	12 1/4" standard, long life H20-HXS Hendrickson lining.
BEARINGS	HM 218248 and HM 212049
SLACK ADJUSTERS	Haldex S-ABA, automatic, curved, 28 splines, (5.5").
SEALS	Federal Mogul, with "Gearlube" mineral oil, SAE 80W90.
BRAKE CHAMBERS	T.S.E. brake, "Omnibrake" (30-30), long stroke.
HUBS AND DRUMS	KIC, hub piloted wheel, 8 long studs 275mm B.C., balanced cast drums outboard mount.
RIMS	Alcoa, aluminum, inside polished 17.5 x 6.75, disc (8 holes), 275mm B.C., single flange nuts.
SPACERS	Wheel guard 8 holes. Located between the inside wheel and the drum.
TIRES	Continental, 235/75 R 17.5 HTL-2 ECO-PLUS 18 ply (31.6")
RIMS	Valve extension (4") for 17.5 x 6.75 interior rims only.
AIR SYSTEM	
GLAD HANDS	Fixed.
AIR VALVES	Rockwell Wabco, ABS, 2 sensors 1 modulator.
VALVE(S)	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.
VALVE(S)	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.
CONTROL BOX	*** Stainless steel. ***
ACCESSORIES	
REGISTRATION HOLDER	One plastic, Betts-PS-1 or equivalent.
MUD FLAPS	One set, rubber with Manac logo and vertical grooves to reduce spray.
SLIDING TRACK	Full length, "LL" extruded aluminum, road side.
WINCHES	Qty: 15, KINEDYNE #1020SV, silver painted slider (low profil 5 7/8").
STORAGE BOX(ES)	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 AHEAD OF SUSPENSION R/S & C/S
FINISHING	
RETROREFLECTIVE TAPES	Conspicuity striping in compliance with CMVSS 108. Gray and red each side, fully covers rear sill and horizontal underride protection bar.
WHEELS OR RIMS	Natural aluminum.
ADDITIONAL OPTIONS	*** Ref U#216685 ***
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

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