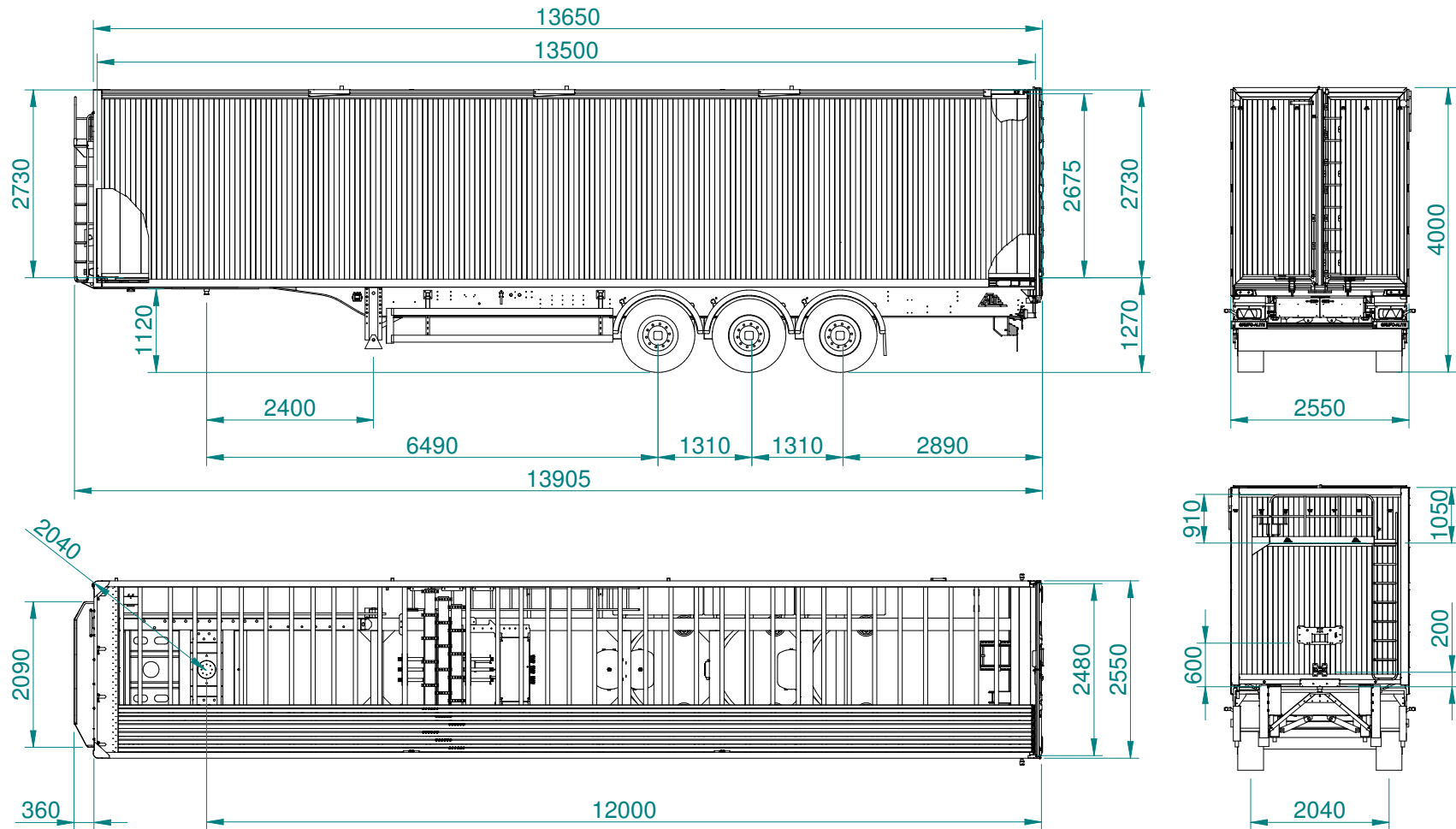


# FULL DATA SHEET

## HD1 - HEAVY DUTY DRYLOAD KP LOW



Characteristic	Value	Observations
Useful volume (m <sup>3</sup> )	91,4 m <sup>3</sup>	Useful volume. Interior dimensions: 13.500 x 2.480 x 2.730 mm (long x width x high).
Empty weight (kg)	7.650	Vehicle weight. See equipment on next page.
TPMM (kg)	39.000	Vehicle total. (Technically Permissible Maximum Mass).
TPMM pivot (kg)	12.000	Standard pivot 2", class H50-X.
TPMM axles 1-2-3 (kg)	9.000	Tires 385/65 R22,5, rim offset.
European Homologation TIPO	S3NB	e9*2007/46*0557*01.

## HD1-1 CHASSIS SEMITRAILER ALITE (TPMM 39.000 kg)

**HD1-1.1** Aluminium chassis with 450 mm frames in double T in AL6005 T6 extrusion in one piece.

**HD1-1.2** Fifth wheel locking design for a 1120 mm height from the floor. Range of run: 1100 a 1150 mm. Technically Permissible Maximum Mass: TPMM =12.000 kg. Bolt-on fifth wheel plate in 8 mm thick S355 JR steel. 8 mm thick coupling pivot bridge crosspieces in AL5754 H111 folded sheet metal.

**HD1-1.3** Three 3 axles BPW ECOPLUS III with disc brake. Technically Permissible Maximum Mass:TPMM 1<sup>o</sup>-2<sup>o</sup>-3<sup>o</sup> = 9.000 kg per axle.

- Distance King Pin - 1st axis: 6.490 mm
- Distance 1st - 2nd axle: 1.310 mm
- Distance 2nd - 3rd axle: 1.310 mm
- Rear overhang: 2.890 mm

**OPTIONS:**

OP HD1-1.3\_02 Add BPW AIRSAVE self-pumping system mounted in three (3) ECOPLUS axles 9-12 tn. (+3,45 kg)

**HD1-1.4** BPW ECO AIRCOMPACT integral pneumatic suspension (EAAU L1 FH 215-255 mm).

**HD1-1.5** Third axle elevator with automatic control. Up and down control by the EBS ECU.

**OPTIONS:**

OP HD1-1.5\_01 Add automatic liftable axes 1st. (+23,3 kg)

**HD1-1.6** Six (6) CHT3 CONTINENTAL tyres, dimensions 385/65 R22,5"

**OPTIONS:**

OP HD1-1.6\_01 Change tire CONTINENTAL CHT3 385/65 R22,5 to 6 MICHELIN X MULTI T 385/65 R22,5

**HD1-1.7** Six (6) painted steel rims offset by pumping B=120 mm.

**OPTIONS:**

OP HD1-1.7\_01 Change to 6 ALCOA DURABRIGHT rims B=120 mm. (-68,0 kg)

OP HD1-1.7\_02 Change to 6 SPEED LINE DIAMANTE rims B=120 mm. (-65,0 kg)

**HD1-1.8** One (1) screw-type spare wheel support without wheel.

**OPTIONS**

OP HD1-1.8\_01 Add one (1) wheel support.

## HD1-1.9

HALDEX GEN3 + EBS 4S/2M pneumatic brake system with mechanical suspension:

- InfoCentre 2 panel to control suspension and brake parameters. Scale function among others.
- COLAS leveling valve:
  - o Dead man function, RoRo function (Roll-on, Roll-off).
  - o RTR function for automatic repositioning of ride height when starting the vehicle movement.
- TrCM (Trailer Control Module) parking valve.
- Six (6) brake pad wear sensors.
- Overflow valve for suspension circuit.
- Coupling heads with filter and pressure tap according to ISO 1728.
- ISO 7638 connector. Power supply by additional stoplight.

## OPTIONS

OP HD1-1.9\_01

Change HALDEX 4S/2M GEN3+ to the WABCO 4S/3M with electronic suspension:

- ECU EBS WABCO Premium.
- Lever for manual regulation of electronic suspension eTASC with solenoid valve for automatic regulation of the height of the suspension in running condition.
- Three (3) programmable suspension heights. OPTILEVEL.
- SmartBoard control panel for suspension parameters.
- Two (2) LACV lift axle controls.
- Brake pad wear sensor on all wheels.
- Coupling heads with filter and pressure tap according to ISO 1728.
- ISO 7638 connector. Power supply by additional stoplight.

OP HD1-1.9\_02

Change HALDEX 4S/2M GEN3+ to the WABCO 4S/3M with electronic suspension + OPTITURN / OPTILOAD (3rd modulator)

- ECU EBS WABCO Premium.
- Lever for manual regulation of electronic suspension eTASC with solenoid valve for automatic regulation of the height of the suspension in running condition.
- Three (3) programmable suspension heights. OPTILEVEL.
- SmartBoard control panel for suspension parameters.
- Two (2) LACV + LAVic lift axle controls.
- 3rd modulator with pneumatic bellows pressure sensor for activate the OPTILOAD or OPTITURN function.
- Brake pad wear sensor on all wheels.
- Coupling heads with filter and pressure tap according to ISO 1728.
- ISO 7638 connector. Power supply by additional stoplight.

<b>HD1-1.10</b>	Three (3) 60 L aluminium tanks, diameter d396 x 592 mm with supports. Two (2) brake tanks + one (1) suspension tank.
<b>HD1-1.11</b>	Two (2) BPW 2 speed mechanical type painted steel support feet. OPTIONS OP HD1-1.11_01      Change steel legs to manual aluminium support legs 650-700 BALTECH / ALU-LEG / PLASTECNIC.
<b>HD1-1.12</b>	Fixed anti-underrun device (bumper) in anodized aluminium ALA-ALU according to Regulation 58. OPTIONS OP HD1-1.12_01      Change anti-embedment WING-ALU for WING-E (extendable manual). OP HD1-1.12_02      Change anti-embedment WING-ALU for WING-R (automatic folding).
<b>HD1-1.13</b>	Six (6) integral mudguards in polypropylene with anti-splash system valances according to Regulation 109.
<b>HD1-1.14</b>	Drop side lateral under-run protections with anodised aluminium bars.
<b>HD1-1.15</b>	One (1) 1.000 mm tools drawer in PVC. One (1) water tank with soap dispenser in PVC. Two (2) empty drawers of fire extinguishers in PVC, on configuration A1, B1, A2 or B2. OPTIONS OP HD1-1.15_01      Add plastic toolbox 1.000 mm with brackets (C=450). OP HD1-1.15_02      Add one (1) drawer in chassis with folding aluminium doors. Dimensions: 2.300 x 1.130 x 310 mm (long x width x high).
<b>POSSIBLE MOUNTING CONFIGURATIONS: A1 AND B1 FOR DRIVING ON THE RIGHT / A2 AND B2 FOR DRIVING ON THE LEFT:</b>	
<b>A1 Right driving vehicle WITHOUT hydraulic accessories</b>	
<b>LEFT SIDE IN RUNNING ORDER:</b> o Water tank. o Suspension lever. o Brake control. o Moving floor control panel. o One (1) extinguisher drawer in horizontal position mounted in the central part and integrated in the cyclist.	<b>RIGHT SIDE IN RUNNING ORDER:</b> o Lever for operating the legs. o Spare wheel holder. o One (1) tool drawer in the central rear part integrated in the cyclist life-saving. o One (1) rear mounted horizontal extinguisher drawer. o Ladder with 12-14 aluminium rungs with support for cyclists. o Pole for tarpaulin at the back.
<b>NOTES:</b> 1. When a 2nd tool drawer is mounted, it will be mounted at the rear on the left side on the overhang. 2. When a 2nd spare wheel carrier is mounted, it will be mounted on the rear right side of the overhang.	

HD1-1.15

**B1 Right driving vehicle WITH hydraulic accessories****LEFT SIDE IN RUNNING ORDER:**

- o Water tank.
- o Suspension lever.
- o Brake control.
- o Moving floor control panel.
- o One (1) extinguisher drawer in horizontal position mounted in the central part and integrated in the cyclist.
- o One (1) hydraulic accessories control cabinet.

**RIGHT SIDE IN RUNNING ORDER:**

- o Lever for operating the legs.
- o Spare wheel holder.
- o One (1) tool drawer in the central rear part integrated in the cyclist life-saving.
- o One (1) rear mounted horizontal extinguisher drawer.
- o Ladder with 12-14 aluminium rungs with support for cyclists.
- o Pole for tarpaulin at the back.

**NOTES:**

1. When a 2nd tool drawer is mounted, it will be mounted at the rear on the left side on the overhang.
2. When a 2nd spare wheel carrier is mounted, it will be mounted on the rear right side of the overhang

**A2 Left driving vehicle WITHOUT hydraulic accessories****LEFT SIDE IN RUNNING ORDER:**

- o Lever for operating the legs.
- o Spare wheel holder.
- o One (1) tool drawer in the central rear part integrated in the cyclist life-saving.
- o One (1) rear mounted horizontal extinguisher drawer.
- o Ladder with 12-14 aluminium rungs with support for cyclists.
- o Pole for tarpaulin at the back.

**RIGHT SIDE IN RUNNING ORDER:**

- o Water tank.
- o Suspension lever.
- o Brake control.
- o Moving floor control panel.
- o One (1) extinguisher drawer in horizontal position mounted in the central part and integrated in the cyclist.

**NOTES:**

1. When a 2nd tool drawer is mounted, it will be mounted at the rear on the right side on the overhang.
2. When a 2nd spare wheel carrier is mounted, it will be mounted on the rear left side of the overhang.

**B2 Left driving vehicle WITH hydraulic accessories****LEFT SIDE IN RUNNING ORDER:**

- o Lever for operating the legs.
- o Spare wheel holder.
- o One (1) tool drawer at the rear on the overhang.
- o One (1) rear mounted horizontal extinguisher drawer.
- o One (1) hydraulic accessories control cabinet.

**RIGHT SIDE IN RUNNING ORDER:**

- o Water tank.
- o Suspension lever.
- o Brake control.
- o Moving floor control panel.
- o One (1) extinguisher drawer in horizontal position mounted in the central part and integrated in the cyclist.
- o Ladder with 12-14 aluminium rungs with support for cyclists.
- o Pole for tarpaulin at the back.

**NOTES:**

1. When a 2nd tool drawer is mounted, it will be mounted at the rear on the right side on the overhang.
2. When a 2nd spare Wheel carrier is mounted, it will be mounted in the central part on the right side.

**HD1-1.16** Lightening mechanism and light signals according to the Regulation 48 with Aspöck Ecoled II rear lights Led markers. Folding protections for the lights in aluminium integrated in the rear of the vehicle.

OPTIONS:

- |                |   |
|----------------|---|
| OP HD1-1.16_01 | Add two (2) working rear light led reverse gear + selector.   |
| OP HD1-1.16_02 | Add two (2) led work headlights in central part on each side under the front safety support + reverse selector. |

**HD1-1.17** Chassis finished in non-anodised raw aluminium.

OPTIONS:

- |                |   |
|----------------|---|
| OP HD1-1.17_01 | Imp. epoxy finish + acrylic water pain RAL. |
|----------------|---|

## HD1-2 OPEN BODYWORK WITH INTEGRAL FIXED SIDES IN ALUMINIUM (91,4 m<sup>3</sup>)

**HD1-2.1** Integral aluminium fixed sides open bodywork construction. Outer dimensions: 13.650 mm (length) x 2.550 mm (width) and 2.730 mm of usable inner height. Fully usable volume of 91,4 m<sup>3</sup>. Maximum ground height 4.000 mm for fifth wheel locking at 1.120 mm.

OPTIONS

- |               |  |
|---------------|--|
| OP HD1-2.1_01 | Body length reduction by linear meter. (-233,0 kg/m).Range 10.000 - 13.650 mm.       |
| OP HD1-2.1_02 | Body height variation by linear meter. (±442 kg/m).Range: 1.400 - 3.200 mm           |
| OP HD1-2.1_03 | Change useful interior length 13,500 to 13,620 mm with internal chamfer 90 x 120 mm. |

**HD1-2.2** AL6005 T6 Alloy aluminium panels with tongue-and-groove joint system boards. 300 x 30 x 2,25 / 1,85 (width x thickness x inner / outer thickness).

OPTIONS

- |               |   |
|---------------|---|
| OP HD1-2.2_01 | Change panels 300 x 30 x 2,25 / 1,85 mm for 350 x 30 x 3,0 / 2,5 mm. (+136,0 kg).                                     |
| OP HD1-2.2_02 | Add inner complete reinforcement on both sides 13.500 x 1.500 x 3 mm AL5754 H111 (40,5 m <sup>2</sup> ). (+328,0 kg). |
| OP HD1-2.2_03 | Add inner complete reinforcement on both sides 9.000 x 1.500 x 4 mm AL5754 H111 (27,0 m <sup>2</sup> ). (+218,7 kg).  |
| OP HD1-2.2_04 | Add inner complete reinforcement on both sides 6.000 x 1.500 x 4 mm AL5754 H111 (20,0 m <sup>2</sup> ). (+162,0 kg).  |
| OP HD1-2.2_05 | Add two doors 3.700 x 700 mm folding upper on left side. (+45,0 kg).  |
| OP HD1-2.2_06 | Add two doors 3.700 x 700 mm folding upper on right side. (+45,0 kg).   |

**HD1-2.3** Twenty-one (21) aluminium planks (112 mm) ALITE HEAVY DUTY hydraulic moving floor system in aluminium AL6082 T6 (standard 6 mm + 1,5 mm planks). Mounting of 735 sliders per unit on aluminium tube 25,4 x 25,4 x 2 mm.

<b>HD1-2.3</b>	OPTIONS	
	OP HD1-2.3_01	Change 21 planks e=6 mm for 21 planks e=8 mm. (+148,1 kg).
	OP HD1-2.3_02	Change 21 planks e=6 mm for 21 planks e=10 mm. (+250,0 kg).
	OP HD1-2.3_03	Change 21 planks e= 6 mm for 24 planks e=6 mm. (-85,0 kg).
	OP HD1-2.3_04	Change nylon plate at the back underneath the floor for 4 mm stainless steel plate.(+23,5 kg).
<b>HD1-2.4</b>	Lower band of curved type reinforced in aluminium AL6082 T6.	
	OPTIONS	
	OP HD1-2.4_01	Add twelve (12) equidistant rings inserted in every lateral. Total 24 units. Rings according to EN12640, 3000 daN.
	OP HD1-2.4_02	Add ten (10) equidistant rings inserted in every lateral. Total 20 units. Rings according to EN12640, 3000 daN.
	OP HD1-2.4_03	Add six (6) equidistant rings inserted in every lateral. Total 12 units. Rings according to EN12640, 3000 daN.
<b>HD1-2.5</b>	Upper profile for closing handrail with integrated rail reinforced in AL6082 T6.	
	OPTIONS	
	OP HD1-2.5_01	Change to range paletizable strait without rail.
	OP HD1-2.5_02	Additional profile of reinforcement U 100x50x4 mm 13,6 m in steel galvanized in the right handrail.(+65,0 kg).
	OP HD1-2.5_03	Additional profile of reinforcement U 100x50x4 mm 13,6 m in steel galvanized in the left handrail.(+65,0 kg).
<b>HD1-2.6</b>	Inside standard tarpaulin wall on a bar with two stainless steel pulleys with dismountable bearing.	
	OPTIONS	
	OP HD1-2.6_01	Change to loose sweeper canvas with manual tape on the front. Without pulley.
	OP HD1-2.6_02	Change to loose canvas with telescopic bar. Without pulley.
	OP HD1-2.6_03	Aluminium front sweep panel with inf. canvas + lat. rubber joint. Inside wall hung on stainless steel carts.(+112,8 kg).
OP HD1-2.6_04	Add ALITE pneumatic front inside wall.	
<b>HD1-2.7</b>	Full height fixed front in aluminium with catwalk at 1.050 mm from the handrail and with maximum dimensions according to Regulations. Access ladder on the left side in running order. 910 mm high railing.	
	OPTIONS	
	OP HD1-2.7_01	Add front access door AL. 1.000x800 mm right lat. in running order.
	OP HD1-2.7_02	Add front access door AL. 1.000x800 mm left lat. in running order.
	OP HD1-2.7_03	Change position ladder right side order run.
OP HD1-2.7_04	Runway at 650 mm from the front of the maximum dimensions according to regulations.	

**HD1-2.8** Rear door with 2 parts without upper crossbar and with closing system with central espagnolette with double fastening. Open bodywork closing ironworks integrated in the pillars profiles made of AISI 304b stainless steel. Aluminium ladder on the right door side.

OPTIONS

OP HD1-2.8_01	Add stainless manual hatch. right door.
OP HD1-2.8_02	Add stainless manual hatch. left door.
OP HD1-2.8_03	Add upstand rear doors aluminium removable 80x40x4.
OP HD1-2.8_04	Add assembly rear fixed doors welded AL 160x80x8 AL6082 T6.
OP HD1-2.8_05	Remove staircase integrated aluminium right sheet.
OP HD1-2.8_06	Change rear door with 2 parts for hydraulic leak proof door with hydraulic synchronized locks.

**HD1-2.9** Additional pneumatic closing system for rear doors with manual activation with button in the chassis.

**HD1-2.10** System 5 arches in black anodized ALITE extrusion aluminium tube of section 60x50 mm, quality AL6082 T6. Arches folding towards the top and rotating laterally. Standard version:

- First (1st): straight without detachable type point with pin.
- Second (2nd), third (3rd) and fourth (4th): 50 mm high centre point, rotating and folding upwards.
- Fifth (5th): straight without point, rotating and folding upwards.

OPTIONS

OP HD1-2.10_01	Change arch system for straight version: <ul style="list-style-type: none"> <li>▪ First (1st): straight without point of detachable type with pin.</li> <li>▪ Second (2nd), third (3rd), fourth (4th) and fifth (5th): straight without point, swivelling and folding upwards.</li> </ul>
OP HD1-2.10_02	Arch system change mixed version: <ul style="list-style-type: none"> <li>▪ First (1st): straight without point of detachable type with pin.</li> <li>▪ Second (2nd), third (3rd) and fourth (4th): 50 mm high centre point with interior stock closure and plate above the handrail.</li> <li>▪ Fifth (5th): straight without point, rotating and folding upwards.</li> </ul>
OP HD1-2.10_03	Arches change spring lock closure system: <ul style="list-style-type: none"> <li>▪ First (1st), second (2nd), third (3rd), fourth (4th) and fifth (5th): 50 mm high centre point with interior stock closure and plate above the handrail.</li> </ul>
OP HD1-2.10_04	Add bracket support closure livestock amarre chassis.
OP HD1-2.10_05	Change butterfly roof arches system: <ul style="list-style-type: none"> <li>▪ Three (3) black anodized 60x50 mm AL6082 T6 straight aluminium arches with removable side bolt fixing at both ends:           <ul style="list-style-type: none"> <li>o First (1st) and second (2nd): centred leaving 3 equal holes.</li> <li>o Third (3rd): at the rear next to the 2-leaf doors (without pillar). In the case of a pillar on rear doors WITHOUT REAR ARCH.</li> </ul> </li> <li>▪ Three (3) 6x8 mm coated steel cables with turnbuckles and hooks:           <ul style="list-style-type: none"> <li>o First (1st), second (2nd) and third (3rd): mounted in the centre or each hole with folding stainless steel rings welded to the handrail</li> </ul> </li> </ul>
OP HD1-2.10_06	Reinforced butterfly ceiling arches system change V.1. <ul style="list-style-type: none"> <li>▪ Two (2) steel-type arches painted by tube 120x80x6 mm S275 JR:           <ul style="list-style-type: none"> <li>o Equidistant assembly leaving three (3) equal gaps.</li> <li>o Reinforced bolted brackets and mounting bars with 30 mm diameter reinforced bolts.</li> </ul> </li> </ul>



## HD1-2.11

Tin opener roll up 680 g/m<sup>2</sup> canvas top, with fall of 600 mm on the left side in running order and fixed on the right side. Colour according to RAL guide. Four (4) tensing ratchets on the left side and two (2) on the right side in running order for the tarpaulin belts. Four (4) ALITE aluminium swing-away spring-loaded bayonets mounted on the right side in running order. Two (2) inner reinforcing tubes in the centre at 550 mm between them, 3/4" galvanized iron pipe.

## OPTIONS

OP HD1-2.11\_01 Remove roof tarpaulin. (-135,0 kg).

OP HD1-2.11\_02 Add canvas colour RAL + white centre stripe.

COLOUR	RAL	RAL	RAL	RAL	RAL	RAL	OTHER
BLUE	5012	5015	5010	5002	5003	5013	EUROPA 941
YELLOW	1013	1015	1014	1018	1021	1003	
GREEN	6005	6028	6026	6018			
GRAY	7035	7038	7037				
ORANGE	2008	2004					
RED	3020	3002					
WHITE	9010	9016					
BROWN	8017						
ALUMINUM	9006						
BLACK	9005						

OP HD1-2.11\_03 Change canvas drop right side and fixed left side in running order.

OP HD1-2.11\_04 Add roll-up can opener mesh.

OP HD1-2.11\_05 Add mesh to cover load 15.000 x 5.000 mm + hooks to welded on band.

OP HD1-2.11\_06 Changing canvas roof for Cramaro cabriole type C manual + elec + radio. (+155,0 kg).

- Electric drive with manual control panel and radio control.
- 680 g/m<sup>2</sup> PVC tarpaulin in RAL colour. RAL 9010, RAL 3002, RAL 1030, RAL 7038, RAL 6026, RAL 5002 and RAL 2008.
- 130 mm long type C side straps. 100 mm side canvas drop.
- Arches with a central arch 200 mm high at the centre. Optional 300-400-500 mm.
- Automatic folding rear trolley.
- Change to a system of 5 black anodized aluminium straight rings with screw-on supports. Modification point 2.10.

OP HD1-2.11\_07 Changing canvas roof for ALITE butterfly hydraulic roof. (+315,0 kg). Configuration B1 ó B2.

- Operation by 4 double acting hydraulic cylinders with chains and blocking valve.
- Screw mounting.
- Integral wings in aluminium. Manual locking control of the wings.
- Hydraulic system with manual and electric distributor.
- Control block with limiter and emergency stop valve. With drive speed regulator.

<b>HD1-2.12</b>	Two (2) pulling rings at the rear
	OPTIONS OP HD1-2.12_01      Add four (4) rings to the chassis for the mooring of the vehicle on board.
<b>HD1-2.13</b>	Electrical and pneumatic connections 600 mm from the coupling pivot plate. Watertight box with electrical connectors ISO 3731 (24 N) + ISO 1185 (24 s) + ISO 12098 (15 P) and red and yellow ISO 1728 tires.
	OPTIONS OP HD1-2.13_01      Electrical connections height change to 1.000 mm.
<b>HD1-2.14</b>	Hydraulic connections 250 mm from the coupling pivot plate with aluminium safety valve against wrong connections ALITE AL-BL101. Rigid pressure tube DIN 2391 with sections 22x2,5 mm in pressure (WP 250 bar) and 28x2,0 mm in return (WP 200 bar).
	OPTIONS
	OP HD1-2.14_01      Electrical connections height change to 800 mm.
	OP HD1-2.14_02      Add auxiliary hydraulic set 1 drive (manual/electric).
	OP HD1-2.14_03      Add auxiliary hydraulic set 2 drives (manual/electric).
OP HD1-2.14_04      Diesel autonomous hydraulic system for mobile floor. (+585,0 kg).	
-      Autonomous hydraulic power system with 3-cylinder HATZ diesel engine and 41 cm <sup>3</sup> / rev Parker axial piston pump. Equipment for working flow of 100 l / min / 180 bar.	
-      Engine control panel integrated in the main panel. Electric drives for the walking floor, rear door and hydraulic roof. Additional emergency manual override for all walking floor, tailgate and power roof functions.	
-      Side connection for operation in stationary plant with selector for panel or remote operation. Functions wired according to customer specifications.	
-      DIESEL ENGINE HATZ 3M41 -	
<b>HD1-2.15</b>	One (1) aluminium ladder with 12 steps with holder on the under-run protections.
<b>HD1-2.16</b>	Body of the semitrailer finished in non-anodised raw aluminium.
	OPTIONS OP HD1-2.14_01      Imp. epoxy finish + acrylic water p. RAL.