

# Langendorf Floatliner

## Type SGL



***The professional way to transport glass.  
Worldwide. Safe.***

Langendorf GmbH  
Bahnhofstrasse 115  
D-45731 Waltrop  
Germany

Phone: +49 2309 938 0

Fax: +49 2309 938 190

[www.langendorf.de](http://www.langendorf.de)  
[info@langendorf.de](mailto:info@langendorf.de)

## Langendorf Floatliners...

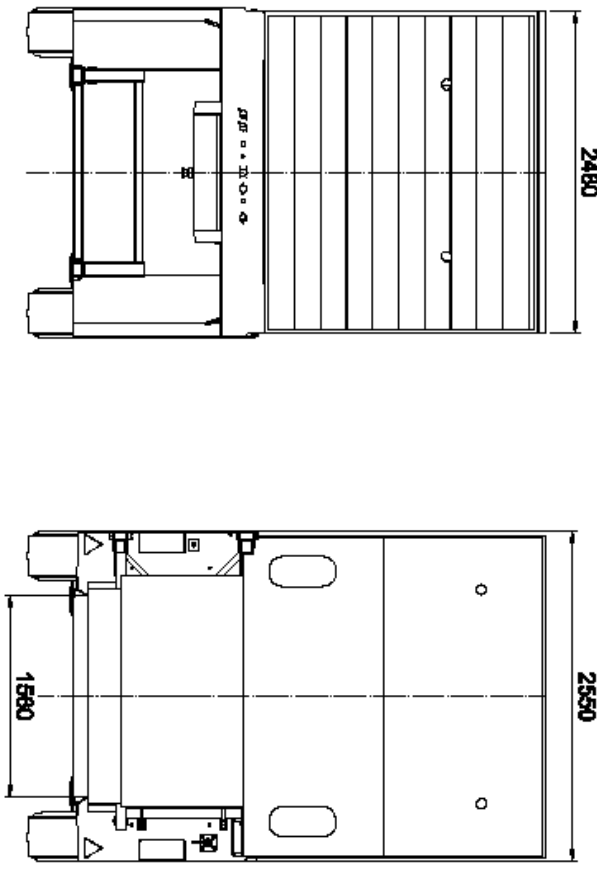
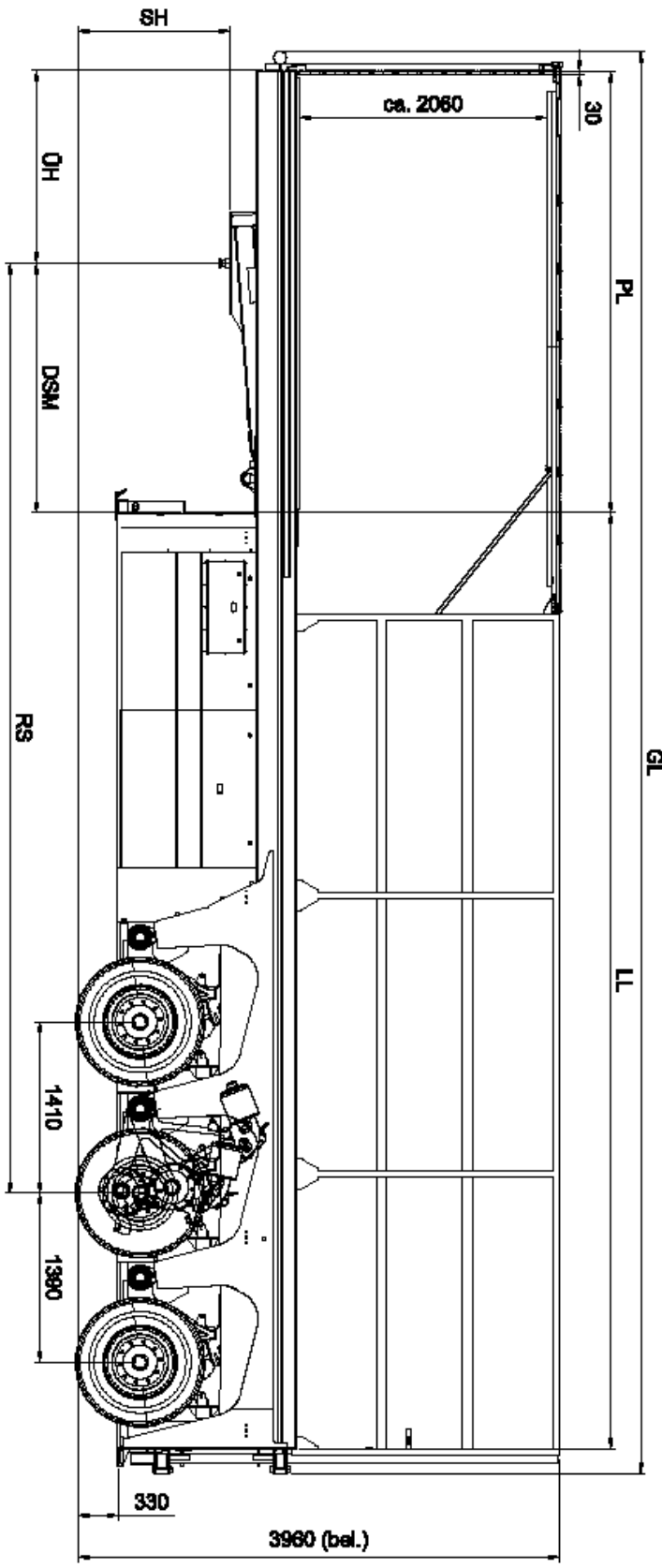
...or the art of transporting glass: With the Floatliner Langendorf is due to the pulse of the glass logistics. The Innenlader concept approved for decades is subject to a permanent development through the close contact to the float glass industry and its forwarders. Only in such a way the permanently moving requirements in the different fields of the glass logistics on different markets can be met.

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**Angebotszeichnung!**  
 Alle angegebenen Maße und Gewichtseinheiten sind  
 als Ziffer-Maße und Literen je nach  
 technischer Ausführung variieren!  
 Das Fahrzeug ist im beladenen Zustand gemessen.  
 Änderungen im Zuge der technischen  
 Weiterentwicklung vorbehalten.

Typ	Motor	Leistung	Wasser	Abwasser	Gas	Maße	Gewicht
SH10C	3000	1700-1200	8000	1200	7200	2650	
SH10C	3000	1700-1200	7000	1800	1620	2650	
SH10C	2700	1700-1200	7000	750	1620	2650	
SH10C	3000	1700-1200	7500	1500	1700	2650	
LL	PL	SH	RS	GH	GL	DSM	


**Langendorf GmbH**  
 Wehrhopf 138  
 1226443-02-1  
 800, Teil, Produkt  
 LL7000-8100, PL3950  
 SH160-1290  
 1226443-02-1



## 1. Advantages of the Langendorf Floatliner

- Designed for the transportation of glass without compromise
- Mature technology, durable design of chassis and running gear, adaptable to different operating conditions (e.g. reinforced chassis for operation on bad road conditions)
- Load fastening devices on the highest level for the most different kinds of load (e.g. standard dimensions, thin glass, coated glass, mixed load, etc.)
- Complete security equipment
- Optimum protection against humidity and condensation
- Excellent relation between payload and dead weight by exclusively using high tensile steel
- Fast loading of the pallet by quick lifting ability
- Little specific stress on the material within the chassis frame by optimised design and even distribution of the forces
- Excellent handling qualities
- Safe and easy operation

## 2. Langendorf advantages

- Almost 30 years of Innenlader experience
- All components made in strictly controlled own production or from well known suppliers
- Long life time, little loss of value
- Little maintenance costs
- Solid and professional craftsmanship, also in details

## Technical description

LANGENDORF-Innenlader, dump-type vehicle, for transporting glass racks without feet, Type SGL 3 – Floatliner, suitable for a two axle semitrailer tractor with a separate filling line connection 10 bar and a compressor performance of 500 l/min.

<b><u>Weights / dimensions:</u></b>	<b><i>Floatliner SGL 3</i></b>
Design semitrailer total weight	39.000 kg
Design Fifth wheel load approx.	12.000 kg
Design semitrailer axle load	27.000 kg
Tare weight with Hydro-Push (2/4) approx.	7.900 kg
Design payload by irregular load distribution approx.	31.100 kg
Total length approx.	10.800 mm
Loading length	7.700 mm
Loading width	1.560 mm
Vehicle width	2.550 mm
Height of vehicle, empty	4.000 mm
Laden fifth wheel height approx. (please indicate)	1.100 - 1.250 mm
Swinging radius between king pin and front sheet of loading area	2.050 mm

### Standard equipment

Semi-axle with drum brake. Automatic slack adjusters, maintenance-free bearing, spigot alignment, track 2.140 mm, asbestos-free brake linings. Brake drum cover sheets	Axles brand BPW 3 x 9.000 kg wheel brake 420 x 180 mm axle distance 1.410 + 1.390 mm
Langendorf single wheel suspension in swing execution incl. semi-axle with spigot alignment and automatic slack adjuster (HALDEX). Maintenance-free bearing of axles.	Standard
Air suspension with shock absorbers and a big travel range of 320 mm, which allows to lower the Innenlader by 250 mm and to lift it by 70 mm from the driving position.	Standard 4 x 100 l air reservoirs
Mechanical security device in order to prevent uncontrolled lowering during the ride. Axle lift of the first and third axle with mechanical restraint system.	Standard
Tyres on steel disc wheels in special execution (silver), brand according to our choice.	6 x 385/65 R 22.5
Chassis in welded construction, made of high tensile steel. Dropped down longitudinal beams at the loading area in order to protect the load against dirt and splash water. L-bars at the lower end of the loading area for taking up the glass racks.	Standard
Front part with movable gooseneck to lower the vehicle down horizontally by 190 mm, with pneumatic lift arm locking device. Front part covered with aluminium.	Standard hydraulic execution
Automatic load-dependent two-line air pressure brake incl. parking brake via Tristop-cylinder according to European-Traffic-Regulations. ABS 4-circuit-system manufactured by WABCO incl. sensor for 4 wheels. WABCO-EBS brake system.	Standard



Rigid plastic front cover in aerodynamic rounded shape. Access door at the right hand front. Backwall in aluminium execution with 2 plexi-glass windows, left hand side-bearing and pneumatic locking system on the right hand side, adjustable by 270°.	Standard
First class PVC tarpaulin, rigidly mounted.	Standard
Electric system: 24 volts according to international regulations, working lamp for the loading area, five-chamber tail-lights, position lamps at the rear and front as well as lateral marking lamps.	Standard 1 x 15 pole plug and 2 x 7 pole plugs
Sandblasting, priming and two colour finish in RAL colours according to your request. Vacuum sealing on wax basis.	Standard
Rear reflectors according to ECE 70	Standard
2 chocks with brackets	Standard
1 upper connection bar and 1 lower connection bar at the rear of the long members	Standard
1 spare wheel carrier on RH side of chassis for Innenlader spare wheel	Standard
1 spare wheel carrier on RH side of chassis for tractor spare wheel	Standard
Removable side protection according to international regulations	Standard
2 telescopic supports made of square tube for uncoupling the unladen Innenlader	Standard
Forced ventilation of the loading space	Standard
Aluminium stop	Standard
Spoiler at the roof	Standard
Safety bow between platform and loading area	Standard

### Options

<b>ECAS / RSS</b>
WABCO Roll Stability Support (not suitable for vehicles for transporting racks with feet)
Electronically controlled air suspension type ECAS incl. emergency assistance (hose connections with connections and locking valve)
Aerodynamic aluminium side protection, closed at the lower end on the left hand side (recommended for ECAS-air suspension)
<b>Electric system</b>
Double licence plate illumination
Additional marking lamps at the roof inclination (additional to the European regulations) - 2 pcs. at the rear - 2 pcs. at the front
1 pair direction indicators at the front
ABS connection cable



Additional working lamp in the loading area
Back-up warning signal
<b>Load security device</b>
“Hydro Push Vario 3” 6/12 in hydro-mechanic execution; consisting of 12 pcs. adjustable pallets with hydraulic cylinders, parallel driven pallets made of aluminium, control via electric pump assembly (2,0 kW / 2,6 cm <sup>3</sup> ) with automatic control system. Hydraulic cylinders with big stroke to fix A- and L-racks, even if only one glass sheet is loaded. Also suitable for DLF with a height of > 2.300 mm. Safety technical optimized execution with CE marking. (840 kg)
“Hydro Push Vario 3” 6/12 as described additional with extendible pallets. Hydraulic cylinders with big stroke for fixing of glass on A- and L-racks even if only one glass sheet is loaded. Also suitable for the transport of PLF and DLF > 1.500 mm height. (930 kg)
“Hydro Push Vario 3” 2/4 with each two big with extendible pallets on each side hydraulic cylinders with big stroke for fixing of glass on A- and L-racks even if only one glass sheet is loaded. Suitable for the transport of PLF and DLF > 1.500 mm height. (800 kg)
“Hydro Push Vario 3” 2/4 with top Top Push for transporting mixed cargo. (920 kg)
Hand pump for emergency operation of the Hydro Push system and gooseneck, so that the vehicle can be load and unload via emergency operating.
Hydro-Push shiftable with winch (only for 2/4)
Hydro Push Vario 6/12 with plastic stripes on the pallets
Tarpaulin between platform at the front and loading area
Safety device for Hydro Push via rear door. Door safety device; the door can only be closed if the load is fixed safely by the Hydro Push system.
<b>Anti-Condensation package</b>
Additional tarpaulin in the loading space to avoid condensation - with in combination aerodynamic front cover - with in combination aerodynamic front cover and additional above the roof inclination - with neck in platform execution
Tarpaulin in the back with magnetic fixation
Long tarpaulin with magnetic fixation for covering the complete loading area for protecting the loading space when driving without glass rack
<b>Disc brakes</b>
BPW disc brakes (Floatliner SGL 5) in combination with steel rims (weight reduction approx. 50 kg)
BPW disc brakes (Floatliner SGL 5) in combination with aluminium rims (long wheel bolts) (weight reduction approx. 50 kg)
<b>Tyres / rims</b>
1 spare wheel of size 385/65 R 22,5 on steel disc in special execution, brand according to our choice (125 kg)
In combination with disc brake: 6 x tyres of size 385/65 R 22,5 on polished Alcoa aluminium rims of size 11.75 R 22,5, offset 120 mm, brand according to our choice. (weight reduction approx. 110 kg)



In connection with disc brake: 1 spare wheel of size 385/65 R 22,5 on polished Alcoa aluminium rims of size 11.75 R 22,5, offset 120 mm. (110 kg)

1 steel disc wheel in special execution

### Painting / inscription

Inscription

Multi-colour painting

Contour line on the rear wall (not in the lower part)

Underseal in the wheelhouses

### Chassis executions

Innenlader chassis in UK design, suitable for a two axle tractor or a light three axle tractor with air suspension.

Loading length	8.100 mm
Wheelbase	8.050 mm
Swinging radius at the rear	2.050 mm
Perm. GTW	44.000 kg
Perm GVW	38.000 kg
Perm. techn. axle load	27.000 kg
Perm. axle load	24.000 kg
Tare weight incl. Hydro-Push approx.	8.150 kg
Payload approx.	29.850 kg

Chassis in reinforced execution (50 kg)

Glass Innenlader with neck in platform execution. Folding top structure with curtain tarpaulin in the platform area. Tarpaulin to be opened from the front to the rear. Floor composed of 24 mm strong plywood. Max. charge 3.000 kg.

Clear lateral loading height	2.030 mm
Clear loading length	3.600 mm
incl. 3 rails for fixing the load on the platform. (700 kg)	

Neck in platform execution as described above with a clear loading length of 3.600 mm, but with Edscha roof with removable rails for additionally loading the neck platform from the top. Tarpaulin over the platform at the front, also to be opened from the front to the rear. (750 kg)

Front part in aerodynamic shape designed to transport broken glass buckets (front part 270 mm longer, including rails and lashing eyes (4 pcs.) for the buckets) (100 kg)

### Further options

Emergency device and axle lift with pneumatic operation

Gooseneck with 2. fifth wheel position

Koni shock absorbers recommendable for operation with bad road conditions

Equipment without 10 bar filling line



1 additional air reservoir (30 kg)
Progressive central lubrication system with 12 bearing points; for Innenladers with drum brake
Central lubrication system with electric pump and 6 bearing points for Innenlader with disc brake
Central lubrication with hand pump and 6 bearing points for Innenlader with disc brake
2 Heating system D5L with 2 Diesel heating units. Max. capacity 4,8 kW, consumption / hrs. each system approx. 0,6 l at full power. Heating system completely with control unit, electric system, brackets and air piping. Volume of tank 35l. (90 kg)
Custom's safe (without window grill)
Window grill
Anti spray rubber at the rear of the trailer
Anti-spray device in the wheel house of the last axle
Odometer on the centre axle
Compressed air connection with hose for cleaning the trailer
4 belts for securing the load on the neck (for neck in platform execution)
Removable 3t lashing ring for neck in platform execution
Vehicle suit for the transport of glass racks with and without feet, travel range of 400 mm, which allows to lower the Innenlader by 250 mm and to lift it by 150 mm, little doors for operating the rack feet
<b>Tractor equipment</b>
Installation of a 10 bar filling line in the tractor incl. coupling head and stop cock for compressor with 10 bar pressure and 500l/min. power. Required tractor part.
dto. as a kit
Hydro Push electric installation in the tractor incl. control lamp in the driver's cab
dto., as a kit
Cover between the longitudinal members of tractor made of 3/4, 5 mm thick aluminium duet sheet with integrated tube for Hydro Push electric connection lines
Further options upon request

## Options (examples)

### Hydro-Push Vario 3 – 6/12 pallets

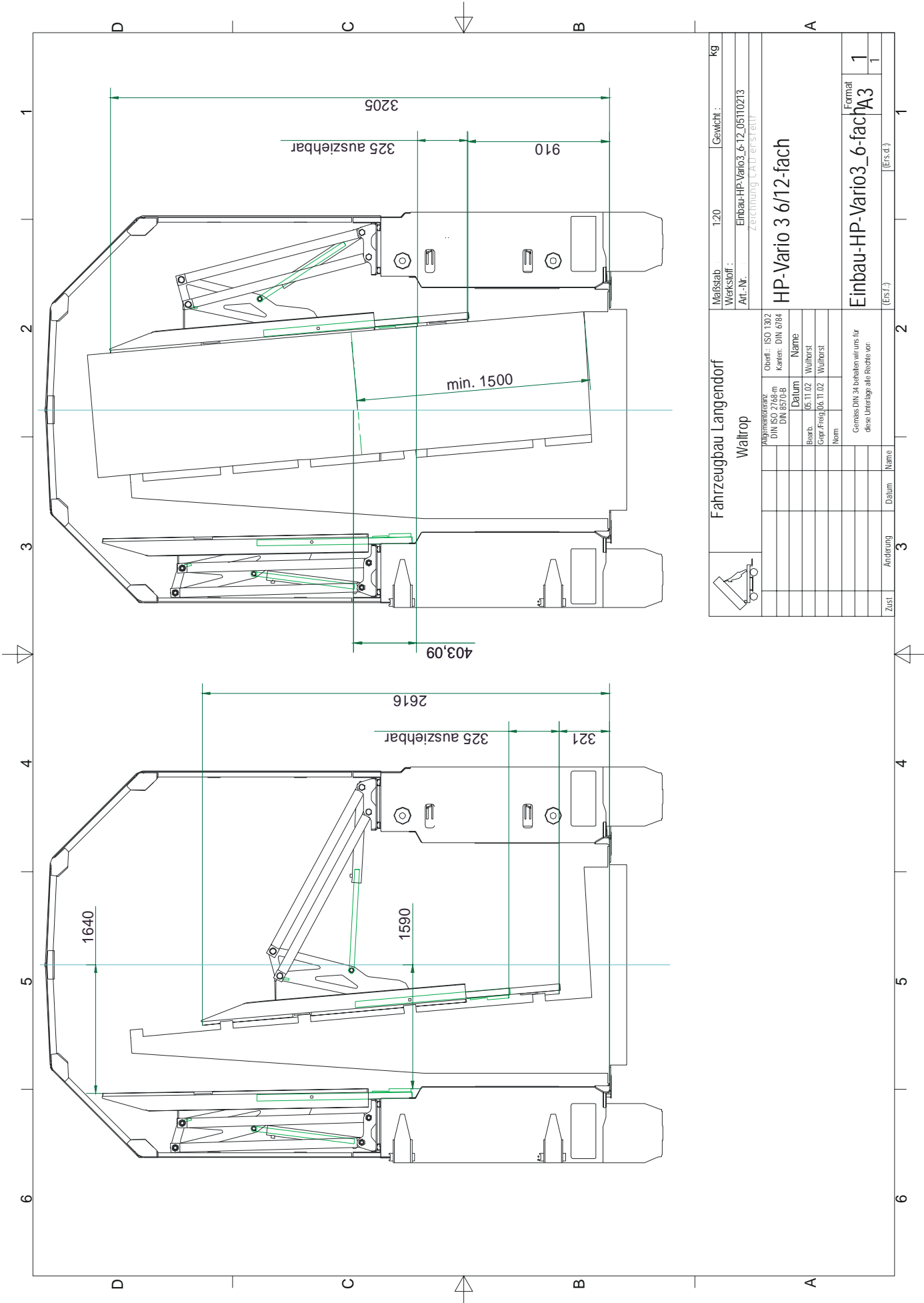


- Secures glass on A- and L-frames
- Large stroke → Fixing of a single glass plate possible
- Overall width of the load compartment 1.560 mm
- min. glass height 2.000 mm



#### Option

- with extendable pallets
- min. glass height 1.500 mm
- suitable for transporting 2 mm thin glass or coated glass



### Hydro-Push Vario 3 – 2/4 pallets



- only 2 large pallets per side
- Secures glass on A- and L-frames
- Large stroke → Fixing of a single glass plate possible
- Overall width of the load compartment 1.560 mm
- min. glass height 2.000 mm

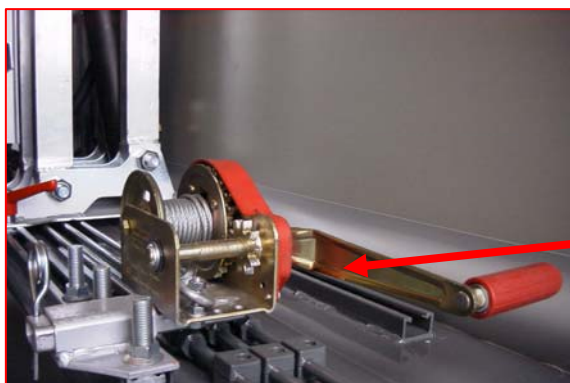


Option

- With extendable pallets
- min. glass height 1.500 mm
- suitable for transporting 2 mm thin glass or coated glass



- „Top-Push“ for transporting mixed load



Hydro-Push in shiftable execution (with winch)



### Anti-Condensation package



Cotton tarpaulin in order to avoid from condensation

Tarpaulin in the back with magnetic fixation



Forced ventilation of the load compartment

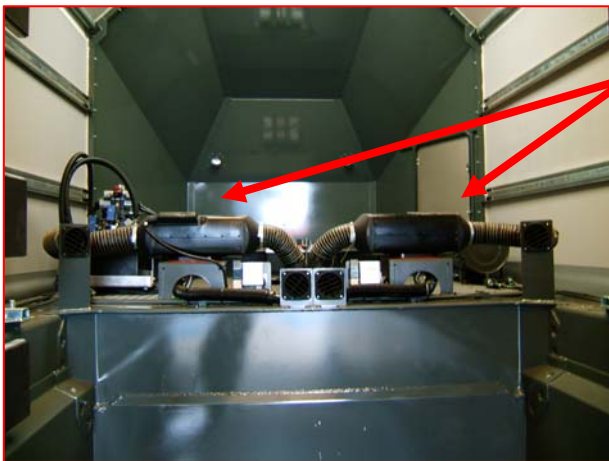
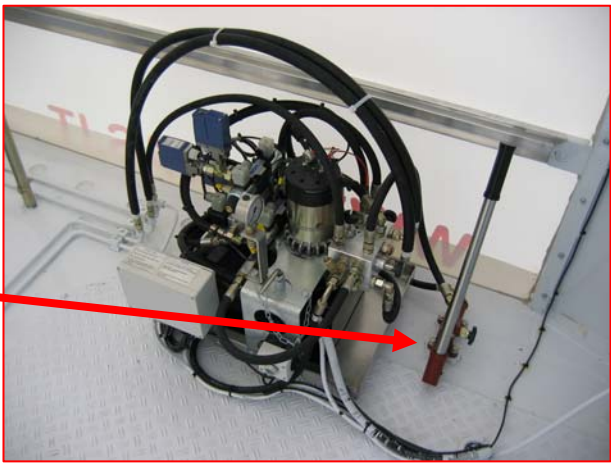


Aluminium stop bar with brush for front insulation of the glass rack



Electronically controlled air suspension type ECAS incl. emergency assistance

Hand pump for emergency operation of the Hydro Push system and gooseneck, so that the vehicle can be loaded and unloaded manually



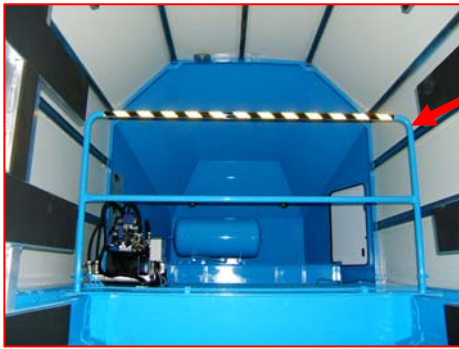
Heating system D5L including plastic Diesel reservoirs and



electric control

Compressed air connection with hose for cleaning the trailer





Safety frame

or

tarpaulin between platform at the front and loading area



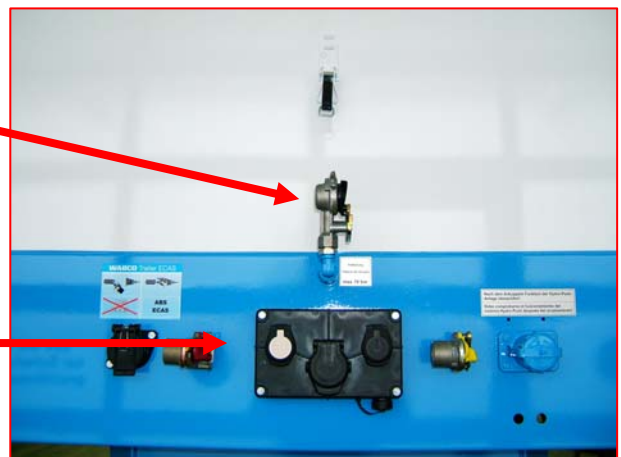
Lashing rings for ferry transport



1 spare wheel carrier on RH side of chassis for Innenlader spare wheel

1 spare wheel carrier on RH side of chassis for truck spare wheel

Filling line connection 10 bar



1 x 15 pole plug and 2 x 7 pole plugs



## References

Langendorf-Floatliner are operating for all well known glass manufacturers of the world on almost all continents; e.g. for



### Europe:

- Germany
- Luxemburg
- Spain
- Switzerland
- Romania
- Ukraine
- Estonia
- Poland
- Norway
- Netherlands
- England
- Portugal
- Austria
- Bulgaria
- Russia
- Latvia
- Finland
- Danmark
- Belgium
- France
- Italy
- Hungary
- Greece
- Lithuania
- Czech Republic
- Sweden
- Turkey

### Asia / Africa

- Eqypt
- Iran
- China
- Japan

### North America

- USA

### South America

- Brasil