

HazMat Truck

...worldwide for fire and rescue!



Van with loading

HazMat Truck GW-G 1 (3,5 t) acc. to DIN 14555-14

Chassis: MB Sprinter, VW LT

The HazMat Truck GW-G 1 is equipped for the operation at accidents with dangerous substances and goods. It offers devices that are necessary for realising immediate measurements in a smaller extent e.g. at acid- or mineral oil accidents where damages to persons or the environment must be worried about.

The GW-G 1 is also available as box body with lateral shutters and rear cell.

Our GW-G 1 had been conceived and functional equipped in close agreement with the fire brigades.



Box body with lateral shutters

The anodized Gimaex-Schmitz aluminium profiles that are permitting changes if necessary and that are mainly saving weight will be used for the interior fittings.

The multi-purpose equipment (e.g. shutting-off material, breathing protection, chemical protective suits = CPS, all measuring-, sanitary- and cleaning devices, portable searchlights), will be stored in durable storages.

The equipment compartment can be loaded and unloaded rear-sided or by lateral shutters.





Rear view

Rear equipment compartment

The CPS will be stored in a stable tub on the lower level. Therefore they are protected against damages and can also be transported dirty. Further devices will be stored - mainly in plastic cases - on the upper level. The BAs will be stored easily removeable on an extractable and foldable level besides the suits.

The BA-storages are conceived for taking up one-bottle-devices (if wished two-bottle-devices) of all makes at which the bottles will be taken up in the storages and not the carrying plates.



Rear equipment compartment with BA-storages

On the left and on the right hand side above the wheelhouses there are e.g. sign posts, the foil rolls and drum pump stations. The trolleys will laterally be guided in alu rails and arrested. The 400 l rescue barrel is stored in driving direction in front of the 4 containers. It can be removed from the vehicle by loading rails.

For an extra charge we provide the equipment compartment floor that is made of 12 mm strong, phenolic resin-coated special plywood with universal lashing rails. By that rails it is possible to fix devices (e.g. barrels, high-pressure cleaners) universally on the vehicle floor.



Loading on Gimaex-Schmitz - trolleys

Front equipment compartment

The absorbent is stored behind the 220 l-plastic container. The suction device and other equipment is stored in plastic cases on the level above. 2 steel plate cases with measuring devices and sampling kit can be removed by ball-bearing pushing frames from the lockable steel cabinets.



For this vehicle we have developed a complete new construction concept. Due to this construction concept, the vehicle can be retrofitted within a short time.

The containers with the hazmat loading can be changed against such with e.g.:

- submerged pumps for flood operations
- hydraulic rescue devices, generator and lighting devices for traffic accidents
- pressure hoses for long distances, radiation protection equipment for measuring tasks.

4 mobile and simultaneously portable containers that are equipped with the heavy devices of the hazmat basic equipment are provided as mobile storages. If necessary they can be exchanged against containers with additional GW-G equipment like e.g. acid and lye pump or peristaltic pump, generator, various manifolds and additional measuring devices and others.

Those can also be brought to the operation site later as a vehicle with that type of loading is not bound to the operation site.

Electrical installation

Phosphor lamps as equipment compartment lighting are offering more than the double lighting capacity compared to conventional interior lights. Warning beacon DIN 14620 with alarm switch and control lamp in the driver's cabin (second warning beacon for an extra charge). Acoustical traffic warning unit DIN 14610 - installation DIN 14630.



HazMat Truck GW-G 1 with box body

The box body offers the advantage of a smaller wheelbase (3.000 mm compared to 3.550 mm at a van) and therefore a smaller turning circle. Additionally it has a weight reserve at standard loading of 150 - 200 kg, depending on the chassis equipment. This had practically been realised by our customers as follows:

- instead of 1/1 crew à 1/2 crew
- instead of 2,2 kVA generator à 5 kVA generator

At the shutter construction the complete body and and the interior fittings are made of the new Gimaex-Schmitz alu-profiles that enable changes if necessary and mainly save weight as a flexible modular system. The lateral equipment compartments are closed by one shutter, each. The outer edges of the bottom are covered with stainless steel plates. The equipment compartment bottom is made of waterproof, glued phenolic resin-coated plates (if wished, floor cover of stainless steel for an extra charge). The technical equipment (e.g. pumps, hoses, shutting-off material etc.) is stored in the lateral equipment compartments.



We use e.g. transport- and stacking cases made of high-quality low-pressure polyethylene. The high stability and the ideal handling due to 4 grip openings of the widely oil- and chemical resistant cases provide a safe and cheap storage system. Mainly we care for a clear separation of the equipment to avoid obstructions and loss of time in the case of operation. For being able to reach also at the box body a high flexibility for the operation, we concepted drawers for the equipment compartments G 3 and G 4.



Drawer: standard loading



Drawer: oil alarm (customer's wish)

The personal equipment as well as the breathing protection-, measuring and walkie talkies and the protective suits will be stored in a rear cell (accessible by a rear flap).



Rear view

This arrangement offers the following advantages:

- the crew can change clothes in the rear area.
- no obstructions when removing the technical equipment.
- no risks at possible traffic
- weather protection by the rear flap, with the possibility to hook in a rear tent as weather- and sight protection if wished.
- the personal equipment will be widely protected against aggressive gases and steams.

Gastight suits

4 gastight suits with accessories will be stored safe on a rear level in an equipment compartment that can be closed by a flap.

Breathing appartuses

2 BAs and 1 spare bottle for leaksealing cushions will be stored on a rear-sided extractable BA-slide.

As the bottles will be stored and not the carrying plates, all makes of one bottle devices are fitting. (If wished, two bottle devices).

It is also technically correct that the bottle is the heaviest part for storing. The slide runs smooth on ball bearings.

Measuring devices

2 plastic-coated steel plate cases that are protected against accidental opening are stored in a steel cabinet housing with lock in extractable, ball-bearing drawers.

All measuring devices like e.g.

- explosimeter
- gas detectors with accessories
- test tubes
- sampling kits and the
- walkie talkies

can be stored in those 2 cases.

The vehicle's rear is closed by a flap that reaches about the whole width and height. It will be opened automatically by 2 gas springs and is in a horizontal position when open. A continuous hinge avoids the infiltration of water when it is raining. 2 phosphor lights for the good lighting of the vehicle's rear are situated at the lower side of the flap.

Loading list

Group	Quantity
Protective clothes and equipment	
Chemical protective suite guideline	4
Protective clothes, oil-resistant	2
Light chemical protective suits	2
Protective shoes (boots)	2
Warning clothes W1 (waistcoat)	2
Tracksuit/pair of socks, each	4
Pair of gloves, leather	2
Pair of five-finger gloves	6
Protective goggles	2
BA 300 /200 bar with bottle and mask	2
Carrying box	(2)
Combination filter A2 B2 E2 K2 - P3	4
Extinguishing equipment	
Extinguisher PG 6 H with vehicle bracket	1
Hoses, fittings and accessories	
Working line A 20-K DIN 14920	2
Manhole hook (with chain), zincd	2
Rescue equipment	
Belt- and cutting knife with protective bag	1
Sanitary- and resuscitation equipment	
First-Aid-Kit	1
Lighting-, signal- and communication devices	
Portable searchlight Ex-100	2
Cable lamp with 10 m cable	1
Connecting cable 230V, 10m long	1
Line drum A1-3 x 2,5-45	1
Line HO7RN-F3 G 2,5 50 m	1
Distributor ex-protected	1
Warning triangle and warning light, each	2
Cordon band red-white	1
Prohibition sight V 2 „Fire“	4
Sign „Keep off the action area“	2
Symbol 250 StVO	2
Warning sign „dangerous area“	4
Post for warning signs	4
Ex-walkie talkie	2
Headset	2
Working equipment	
Ex-drum pump-engine 220V	1
Drum pump station of stainless steel/PP, each	1
Strainer for tube stainless steel/PP, each	1
Hand diaphragm pump, DN 50	1
Industrial suction device up to 1500 W	1
Stainless steel-trough, sim. DIN 14 060	1
Generator, 2 kVA at least	1
Exhaust pipe for generator	1
Hand tools and measuring equipment	
Tool bag for tool kit:	1
Multigrip pliers, flat chisel, each	1
Copper hammer 1000 S	1
Shovel 5, sim. DIN 20123 BY	1
Broom, with handle	1
Case for measuring devices	1



Group	Quantity	Group	Quantity
Hand tools and measuring equipment		Manhole cover, 750 x 750 mm	2
Tool bag for tool kit:	1	Devices for sealing the in- and outlets of gullies with accessories	4
Multigrip pliers, flat chisel, each	1	Tarpaulin 4 x 4m, 0,5mm PE-lattice canvas	1
Copper hammer 1000 S	1	Stainless steel channel, 4-part, 1800 x 480 mm	1
Shovel 5, sim. DIN 20123 BY	1	Stainless steel funnel 250 mm Ø	1
Broom, with handle	1	20l-stainless steel canister with discharge union	2
Case for measuring devices	1	Stainless steel bucket 15 l, one straight side	1
Test tube-pump with set of test tubes acc. to DIN 14555-12	1	1l-stainless steel scoop with handle	1
Qualitative indicating test tube	1	Stainless steel-rescue-barrel, 400 l	1
Half quantitative indicating test tube set acc. to VFDB guideline	1	Hook-in container e.g. made of foil	2
Portable Ex-measuring device	1	220l-PE-large container	3
Portable Ex-hand measuring device	1	50l-container stackable	1
Sampling kit, in case	1	Stainless steel binding agent shovel with handle	1
Test paper, oil test paper, 10 test bottles 100 ml, 3 spatula of various sizes, 1l distilled water, 5 PE-wide neck bottles 250 ml and 1000 ml, each, bottle 500 ml with ethyl alcohol 90% for wipe test, 5 gas collecting bags with filling hose, 100 filter papers for wipe test, prober for air probes, water detection paste, sampling spoon with handle that can be extended to 2 m, 100 lables self-adhesive, 1 pen		Squeege, 500 mm wide, with handle	2
Special equipment		Copper wire 16 mm ² , 50m long	1
Suction-/pressure hose 10m DN 32, acid-resistant	1	Grounding spike made of T-steel zinced	1
Suction-/pressure hose 5m DN 32	2	Brass-vice	3
Hose carrying belt, stepless adjustable	6	Universal-barrel key, sparkling	1
Ball valve DN 50	2	10m-tank ratchet belt	2
Discharge pipe 300 mm long, DN 50	1	Set of leak sealing corks, consisting of:	1
Ü-piece, conical socket DN 50-C	1	Leak sealing cushions, 3 pipe sealing cushions, 2 leak bandages for pressure reducer 200/300 bar, single control element, bottle 6l/300 bar, 10m-air supply hose, 10m-filling hose, set of tensions belts, 50 mm wide, length at least 4 x 10 m, 3 foamed rubber sealing plates, mineral oil resistant, acid protection cover for leak sealing cushions	
Ü-piece, threaded connector end DN 50-C	1	Oil binder 100 l ,type 1, packed	3
Connecting piece DN 50 cones on both sides	2	Acid binder absorbtions capability at least 60 l	1
Connecting piece DN 50 thread on both sides	2		
Set spare gaskets	1		
Universal tank wagon-filling coupling	1		
Stainless steel wire rolled, 1,5 mm Ø	1		
Stainless steel suction pipe DN 32	1		
Stainless steel discharge pipe DN 50	1		
Stainless steel-hook wrench	2		
5l-canister+discharge socket for generator	1		
Wedge	2		
Jack	1		
Set of sealing wedges made of soft wood	1		
Set of sealing corks made of soft wood	1		
Set of PP-sealing corks, 10-part	1		
Leaksealing bandage, 100 mm wide, 10 m long	1		
Foamed rubber plate 900 x 900 x 20 mm	2		
Sealing compound	(1)		
Leadwool	1		
Cleaning rag	1		
PE-foil, 0,2 mm, 4 m wide, 25 m long	1		
PE-bag, 1500 x 800 mm, 0,2 mm	5		

The quantity in brackets corresponds to the wished loading acc. to the DIN.



4

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