

# HazMat truck „GW-G“

...worldwide for fire and rescue!



## HazMat truck GW-G acc. to DIN 14555-12 (04-2005)

Chassis: e.g. : MAN, MB, IVECO

The GW-G is a fire fighting vehicle which will be used for environment protection. The vehicle is equipped with special devices that are necessary for realising immediate measurements after hazmat accidents. The GW-G has special devices for e.g. acid- and mineral oil accidents where damages to persons and environment must be worried about. It has enough room- and weight reserves for storing the whole wished loading acc. to DIN and additional loading acc. to the local requirements.

Roll up-wall construction with rear cell



Shutter construction with rear cell



Deep-drawn shutter construction with rear cell

The present hazmat trucks GW-G2 (7,5t) and GW-G3 (11t) have been combined in on hazmat truck GW-G. Of course we still build the trucks GW-G1 and GW-G2 if wished by the customer. The GW-G must correspond to the general requirements for fire fighting vehicles acc. to DIN EN 1846-2 and E-DIN 14502-2 as well as to the general requirements for Technical Rescue Trucks and HazMat trucks acc. to DIN 14555-1. The crew consists of a troop (1/2), but at least of one leader and a machinist (1/1).



Three different body designs are available.

1. HuRoWa
2. shutters
3. deep-drawn shutters

All vehicles will be equipped with a rear cell acc. to DIN standard.



HazMat truck HuRoWa (roll up-wall system) - lateral view

The lateral equipment compartments are closed by an upper- and lower wall per side at this roll up-wall system (HuRoWa). When opening the lower wall, the upper wall will automatically roll on the roof by a rope system.

### Generator slide

Our rotary generator slide enables the loading and unloading of the aggregate by 2 persons. It can be lowered by gas springs (240 mm).

For being able to operate the generator also on the extracted slide, it can be pulled out horizontally. Each slide position will automatically be arrested. The generator can also be operated on the slide (e.g. for the lighting mast), feeding will be made by a fix installed helix cable.



Generator slide

### Binding agent

6 barrels for storing the binding agent are included in the delivery. Therefore a contamination of the interior by damaged bags is impossible. Furthermore, used binding agent can be removed in the empty barrels.



Storage binding agent, suction device and mobile trolley

Storage for suction device (lying). Besides a mobile and portable trolley with foldable grip for transporting heavy equipment (e. g. acid and lye pump and accessories) to the operation site.

The anodized Gimaex-Schmitz aluminium profiles will be used for the interior fittings. They enable changes if necessary and mainly they are saving weight as a flexible modular system.

The equipment compartment floor is made of waterproof glued phenolic-resin coated plates (if wished floor cover made of stainless steel for an extra charge).

Mainly we care for a clear separation of the equipment. We also use 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 are offering a safe and cheap storage system.

Similar devices (e. g. shutting-off devices) can easily be transported to the operation site.

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### Lighting mast

A lighting mast mounted on an extractable slide in the right equipment compartment behind the front wall is available if wished for an extra charge (available as hand crank or pneumatical mast).

Advantages of the inside mounting:

- protection against damages and weather impacts
- increased driving safety as it does not exceed the outer dimensions
- space advantage as the whole body length can be used
- additional storage for barrow made of aluminium



Lighting mast mounted in the inside

The technical equipment like e. g.

- pumps,
- hoses
- shutting-off material etc.

is stored in the front equipment compartments.



Left vehicle side - deep-drawn shutter

### Sliding wall

A smooth-running vertical sliding wall acts for the clear storing of the clearing devices like

- shovels
- handles
- suction pipe
- drum pump stations etc.
- PE-foil, 25 m long.

The foil can be unrolled to the right length and with the knife that is stored aside it will be cut off.

The stainless steel bottom can be removed and easily be cleaned.



Sliding wall and storage 220l-PE-container

### 220l-PE-container

In the 220 l-plastic containers, the hoses will be stored clean and good transportable in compliance with the allowed bend radii.

A lying storage of the hoses (e.g. in pipes) is disadvantageous as possible dropping residual media may contaminate and damage the vehicle and as a transport of such hoses to the operation site (e.g. below chemical protective suits) is very disadvantageous.

### Stainless steel container

The set of the round stainless steel containers that can be stacked into each other and the strainers will be stored in a lying position. Each container can be unloaded individually. A cap will be stored in front of the containers as closure. The remaining caps are stored besides the containers. Due to the round form it is possible to roll them to the operation site instead of carrying them.



Set of stainless steel containers with internal suction container

The personal equipment as well as

- breathing protection-,
- measuring- and walkie talkies
- and the fully protective suits

will be stored in the rear cell.

This arrangement offers the following advantages:

- the crew can change clothes in the rear area.
- no obstruction due to removal of the technical loading
- no risk by possible passing traffic
- weather protection by rear flap with the possibility to hook in a rear tent as additional weather- and sight protection
- the personal equipment will widely by protected against aggressive gases and steams

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### Vehicle rear

The vehicle's rear is closed by a flap that reaches about the whole width and height. It opens automatically by 2 gas pressure cylinders and is horizontal in opened position. A continuous hinge avoids the infiltration of water. 2 phosphor lights are situated at the lower part of the flap for the good lighting of the vehicle's rear.



Vehicle rear with all storages for the personal equipment

### Working tables

2 removeable filing- and working tables will be stored in the rear for an extra charge.

Free arrangeable tables will knowingly be used because removeable filing- and working surfaces are not always adequate depending on the terrain.



Free arrangeable working table with case for measuring devices



### Measuring devices

If wished and for an extra charge it is possible that 5 plastic-coated steel cases that are secured against accidental opening will be stored in 2 lockable steel cabinet housings with interlock in extractable, ball-bearing drawer frames.

In those 5 cases it is possible to store all measuring devices:

- explosimeter and gas detector with accessories,
- test tubes and sampling kits and the
- walkie talkies.



BA/spare bottle on extractable slide

### Portable searchlights, radio- and measuring devices in vehicle charging brackets

A simple and fast removal is guaranteed by the drawer made of aluminium profiles.



Vehicle charger on drawer

### Steps

Usually steps are only necessary for unloading the upper equipment compartments. When unloading the heavy equipment from the equipment compartment floor it is possible to step directly to the body if the steps are not extracted. This way of unloading is ergonomically correct, safe and avoids injuries of the fire fighter. The steps are coated with an anti-skid cover.



Storage of the fully protective suits

### Fully protective suits

6 fully protective suits will be stored lying with accessories on the upper rear level.

The equipment compartment is sufficiently protected by a flap. An extractable step made of safety grates guarantees the access to the upper equipment compartment.

### Breathing appartuses

4 BAs and if wished 4 spare bottles as well as the bottle for the leaksealing cushions will be stored on a rear-sided extractable BA-slide.

As the bottles and not the carrying plates will be stored, all makes of single-bottle devices are fitting (if wished also two-bottle devices).

We store the bottles and therefore the heaviest part of the BA. Therefore the BA is protected against damages.

The slide runs smooth on ball bearings.



Shutter body with lateral protection foldable as step



Deep-drawn shutter construction with retractable steps

At the deep-drawn shutter construction the steps made of safety grate are stored protected and extractable.



Rear-sided steps

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Steps at the rear facilitate the access to the chemical protective suits that are stored on the upper level. The 3 steps are made of hot-dip galvanised safety grates.

### Steps



Steps for the upper equipment compartments and the hazmat persaltic pump on slide that can be lowered

Steps made of safety grates at the platform gates that reach over the whole equipment compartment length and width facilitate the unloading of the upper equipment compartments at the HuRoWa-construction. It is possible to cover heights up to 600 mm. It will be inserted folded in U-profil tracks on the equipment compartment floor.

We supply 6 similar steps for an extra charge for a better accessibility to the lateral upper equipment compartments .

### NOTE REFERRING TO THE LOADING PLAN (following pages)

Items where the quantity will be stated in brackets, will only be delivered as fire fighting loading if wished by the customer.

- b** Overall 9 suits for 3 crews (1/2) are necessary (2 attack crews and 1 securing crew). As in most cases at hazmat operations also a breathing protection truck will be alerted which normally provides CPS, it is only necessary to carry along 6 chemical protective suits as standard.
- c** 8 light chemical protective suits are necessary for overall 3 crews (3 suits for the attack crew (1/2), 3 suits for the securing crew (1/2) and 2 suits for the decon crew (1/1).
- t** It is possible that this equipment will not be carried along as far as it is guaranteed that it will be available at the operation site right in time.



**Table 1 — Firefighting loading**

<b>Protective clothes and equipment</b>	
Chemical protective suit CSF Type 1a-ET acc. to DIN EN 943-2	6
Chemical protective suit CSF Type 1b-ET acc. to DIN EN 943-2	(6)
Chemical protective suit CSF Type 1a-ET acc. to DIN EN 943-2	3 <sup>b</sup>
Chemical protective suit CSF Type 1b-ET acc. to DIN EN 943-2	(3 <sup>b</sup> )
Door mat impervious to fluids	1
Pair of protective shoes design S 5 HRO acc. to DIN EN 345 1	6
Light chemical protective suit Type 3 acc. to EN 463 or prEN 1511, respectively	8 <sup>c</sup>
Protective clothes	6
Warning waistcoat, class 2 acc. to DIN EN 471	3 <sup>d</sup>
Pair of socks	9
Tracksuit	9
Pair of five-finger gloves	30
Pair of medical gloves acc. to DIN EN 455 1	50
Complete breathing apparatus Type 2 acc. to E DIN EN 137	6
Breathing air connection acc. to DIN EN 136	8
Carrying bag for breathing air connection	(3)
Combination filter A2B2E2K2-P3 acc. to DIN EN 141	8
<b>Extinguishing equipment</b>	
Portable extinguisher acc. to DIN EN 3, 12 kg	1
Portable extinguisher acc. to DIN EN 3, 6 kg	(2)
<b>Hoses, fittings and accessories</b>	
Coupling wrench DIN 14822- BC -NF	2
<b>Rescue equipment</b>	
Cutting knife with protective bag	1
Belt knife with protective bag	1
<b>Sanitary- and resuscitation equipment</b>	
First-aid-kit	1
<b>Lighting-, signal- and telecommunication equipment</b>	
Portable searchlight DIN 14642 with vehicle charger	3
Hand lamp	(1)
Floodlight	2
Cable lamp with bulb	1
Tripod	1
Line roller acc. to DIN EN 61316, 230 V	2
Line roller acc. to DIN EN 61316, 400 V	2
Distributor	1
Mounting bridge for 2 floodlights	1
Warning triangle	1
Warning lamp	1
Traffic control cone	8
Cardboard box of foil cordon band	1
Post for foil cordon band	10
Base for post	10
Traffic warning device for light emission on both sides with vehicle charger	2

Explosionproof walkie talkie in the 2-m-range with vehicle charger	4
Headset	3
<b>Working equipment</b>	
Drum pump engine	1
Ground wire made of copper	1
Drum pump pumping station made of stainless steel	1
Drum pump pumping station made of PP	1
Foot strainer for submerged pipe made of stainless steel	1
Foot strainer for submerged pipe made of PP	1
Hand diaphragm pump	1
HazMat transfer pump DIN 14427 peristaltic pump	1
HazMat transfer pump DIN 14427 centrifugal pump	(1)
Industrial suction device 230 V/50 Hz, up to 1 500 W	(1)
Polyamide rope - diameter approx. 9 mm	1
Roll of adhesive tape with fabric inlay	1
Trough acc. to DIN 14060	2
Generator DIN 14685 – 8	1
Exhaust pipe DIN 14572 – 50	1
Barrow	1
Mobile transport device	1
Filing- and documentation table in stable design	2
Device for protecting the fire fighting crew against smothers	(1)
Device for knocking down smothers	(1)
<b>Hand tools and measuring equipment</b>	
Tool kit 5 parts	2
Shear 350 DIN 6438	1
Hammer B 80 DIN 7462	1
Hammer DIN 1041 – 500 S	1
Lump hammer DIN 6475 – 2 S	1
Universal pliers 303 – ISO 5746 – 180	1
Flat chisel DIN 6453 – 300	1
Screwdriver DIN 5265 – A	1
Screwdriver DIN 5265 – A	1
Set of double socket wrenchs acc. to DIN 896	1
Set of double combination wrenchs acc. to DIN 3110	1
Set of double ring spanners, deep cropped, acc. to DIN 838	1
customary set of socket wrenchs of the nominal size 12,5 acc. to DIN 3120	1
Tool bag made of plastic or leather	1
Multigrip pliers 207 B – ISO 8976	1
Gaspiper pliers DIN 5234 – B 1½	1
Flat chisel DIN 6453 – 300	1
Hammer 1000 S DIN 5130	1
Set of drift punches	1
Pick-axe DIN 20109 – 3	1
Spade 850 DIN 20127	2
Shovel 5 DIN 20123	2
Broom	2
Case for taking up gas- and steam measuring devices	1

Test tubes - measuring device with defined flow rate acc. to DIN EN 1231	1
Explosionproof, portable photo ion detector (PID)	(1)
Half quantitative indicating test tube set	1
Portable measuring devices for the explosion protection with vehicle charger	2
Remote thermometer	(1)
Device set for sampling	1
<b>Special equipment</b>	
Suction- and pressure hose DN 50	10
Suction- and pressure hose DN 32	1
Suction- and pressure hose DN 32	1
Strainer DN 50	1
Hose carrying belt	20
Ball valve DN 50	4
Discharge pipe 300 mm long, DN 50	1
Manifold	2
Manifold	2
Pipe elbow, approx. 90° bent, DN 50	1
Pipe elbow, approx. 45° bent, DN 50	12
Joint	2
Joint	2
Set of spare gaskets	1
Tank lorry manifold VK 80 acc. to DIN 28450 2	2
Tank lorry manifold MK 80 acc. to DIN 28450 3	1
Tank lorry manifold VK 50 acc. to DIN 28450 2	2
Tank lorry manifold MK 50 acc. to DIN 28450 3	1
Manifold	1
Manifold	1
Tank wagon adapter KWZ 5	1
Set of gaskets	1
Universal sealing- and filling coupling made of stainless steel	1
Collecting funnel	1
Stainless steel wire	1
Stainless steel suction pipe, DN 32	1
Stainless steel discharge pipe, DN 50	1
Hook wrench acc. to DIN 11860	4
Canister DIN 7274 – 10	1
Wedge acc. to DIN 76051-1	1
Jack	1
Set of sealing wedges made of soft wood	1
Set of sealing stoppers made of soft wood	1
Set of sealing stoppers made of PP	1
Leak sealing bandage	1
Sealing hamp	1
Sealing compound	1
PTFE-sealing bandage foamed	2
Lead wool	1
Cleaning rag	1
Rubber straps, mineral oil-resistant	2
Foil made of PE	1
Flat bag made of PE	20
Manhole cover	4

Sealing plate made of rubber foam	4
Rubber foam wedge	(2)
Device for sealing gullies	4
Board made of PVC	2
Cover-and collecting tarpaulin	2
Stainless steel collecting channel	(1)
Stainless steel collecting channel	1
Collecting case	(1)
Stainless steel funnel	1
Canister DIN 7274-20	1
Stainless steel bucket	1
Scoop, 1 l	1
Open container, volume 3000 l	1
Closed foldable container, volume 1000l	1
Two-part stainless steel rescue- and transport barrel	1
Collecting tub made of PE	1
Suspension container e.g. made of foil	2
Stainless steel suction container	1
Hose foil 100 m long	1
Customary large containers made of PE	4
Container, 50 l volume at least	2
Stainless steel shovel	1
Squeegee	2
Earth spike	1
Copper wire 6 mm <sup>2</sup> 15 m	1
Connecting clamp made of copper-zinc-alloy	3
Copper wire 6 mm <sup>2</sup> 50 m on reel	3
Universal barrel wrench made of non-sparkling material	1
Tank belt made of polyester	2
Set of leakage sealings, pipe sealing cushions + bandages	1
Set of stainless steel pipe clamps	1
Oil absorbent 100 l	4
Special chemical absorbent	1
HazMat literature	(1)
Binocular	1
Device for determining wind direction and wind speed	1
Collecting tub for the pre-decontamination of staff and equipment	1 <sup>t</sup>
Lounge- and dressing tent	(1)
Cleaning set	1



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