



KOMONDOR Armoured vehicle family

Welcome

It is our great pleasure to introduce the activity and product line of our companies.

The Respirator Company was founded in 1928 and is a traditional manufacturer of personal respiratory protective equipment covering both the military filter canister and series of industrial filters, escape hoods, full face and half masks. As a result of the changing demands of the Defence Forces and the industry we increased our assortment, developed a new product range, the decontamination and supporting equipment. This product range includes the Personal Decontamination Containers and Equipment, Casualty Decontamination Systems.

Since 2007 we have been in strategic partnership with Gamma Technical Corporation. It was founded in 1920 and is supplying the Hungarian Defence Forces with CBRN defence equipment for more than 50 years. With several decades of experience Gamma's products are mainly made for military, disaster management and radiation protection applications. Our extensive product range consists of radiation measuring instruments, integrated CBRN/HazMat reconnaissance systems, monitoring and early warning networks, meteorological instruments as well as reconnaissance and first response vehicles. Our intention was always to pay special attention to the demand of our Customers and produce customized products.

Activity of both companies dates back to more than 80 years, during which period our companies obtained not only great experience in production but have always tried to meet new challenges and made efforts in research and development of the product portfolios.

Having entered into automotive industry in 2010, Respirator Company developed a Light Armoured Vehicle Family, within that the RDO-3221 KOMONDOR light armoured base vehicle, equipped with overpressure and filtration system, modular add-on armour, all-wheel drive, flexible choice of, drivetrain and layout, available on request in small series.

We are glad to extend You enclosed a short summary of our armoured vehicle product range, what we think and hope to be of interest to you.

Should you need further information please do not hesitate to contact us.

yours sincerely

Attila Zsitnyányi

CEO
Respirator Zrt
and
Gamma Zrt



The KOMONDOR armoured vehicle family

Multipurpose armoured vehicle, providing multiple variations of utilization by being able to be modified for interservice battle, special services and tasks.



4x4 WD vehicle
with monocoque armour body



6x6 WD vehicle
with monocoque armour body



4x4 or 6x6 WD vehicle
with half armour body



4x4 WD patrol vehicle
with monocoque armour body

Multifunctional solution, agile and protected

- relatively low competitive price
- wide range of installed subsystems
- flexibility to individual customers' requirements
- fast reaction to demands, even of small series, some pieces
- wide range of interchangeable specialized modular superstructures
- ready for technology transfer / local production

Costumized protection on move

The KOMONDOR light armoured vehicle family developed by Respirátor Company is a MRAP vehicle which not only have a high level basic protection, but at the same time provides great maneuverability and off-road capability.

The final technical features and design of the vehicle can be vary in wide range according to the customer's requirement.

	Main characteristic
Max. speed	road 90-105 km/h, ≥ 40 off-road (depend on terrain)
Fording capability	Min. 600 mm without preparation, up to 1200 mm with preparation
Angle of approach	$\geq 35^\circ$
Angle of departure	$\geq 30^\circ$
Slide slope	$\geq 20^\circ$
Ground clearance	> 360 mm under differential, ≥ 500 mm under centre

The high angle of approach and departure, the great ground clearance and the 18-25 HP/t power ratio are such a features which grant adequate mobility in all circumstances.





Beyond the base protection which can be raised with add-on modules the survivability both of vehicle and crew is ensured through the up-to-date solutions are used, such as:

over pressured and filtered crew compartment, central automatic fire extinguishing system, mine blast mitigation seats, spall liner inside cover, CTIS, run-flat system, surround area surveillance (day/night) system, passive night vision goggles, self recovery equipment, preparation of turret mount for weapon station or other equipment.

Thanks to the welded, monocoque “V” shaped design, the quality armour plates and various ballistic materials, all variants comply with the following protection level, according to the NATO STANAG 4569:

	Protection level
Ballistic protection	Level L3 (7.62 x 51 AP (WC core) at 30 meters with 930 m/s)
Mine protection	Level 3a/3b (8 kg (explosive mass) blast AT mine explosion under wheel/under centre)

4x4 WD vehicle with monocoque armour body

- 4x4 WD configuration
- independent or rigid suspension
- Vehicle with monocoque armour body (RDO 3221, 3921 versions)



Characteristic	Parameter
Gross weight	Up to 16500 kg
Wheelbase	3200 mm / 3900 mm
Length	6290-6600 mm
Height	≤ 2880 mm
Width	2445-2530 mm
Front approach	≥30°
Rear departure	≥35°
Ground clearance	390-413 mm under differential
Ground clearance	≥500 mm under body
Fording	min. 600 mm without preparation
Engine output	286-360 HP
Road speed	max. 105 km/h
Steering	Mechanical hydraulic power assisted
Transmission	Mechanical, 6-speed with synchronizers, semiautomatic or automatic
Armour body	Monocoque body
Protection	According to NATO STANAG 4569 <ul style="list-style-type: none">• Basic ballistic protection level L3• Basic mine protection level 3a/3b



Some examples of possible variants:

- mobile command post
- CBRN reconnaissance vehicle
- forward observer
- reconnaissance vehicle
- armoured ambulance vehicle
- air defence missile carrier and launcher vehicle
- mortar carrier and launcher vehicle
- ATGM carrier and launcher vehicle
- recovery or other logistic vehicle
- any other variant for special tasks.



6x6 WD vehicle with monocoque armour body

- 6x6 WD configuration
- independent or rigid suspension
- Vehicle with monocoque armour body (RDO 3231, 3931 versions)

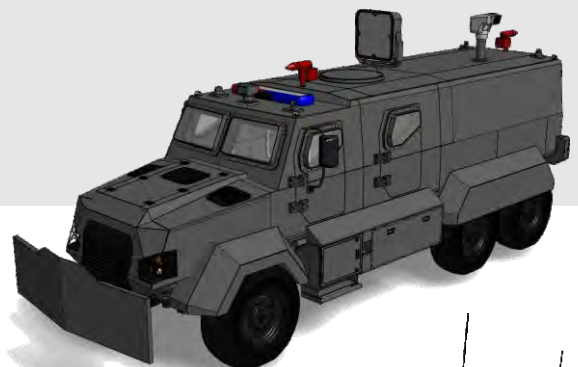


Characteristic	Parameter
Gross weight	Up to 22100 kg
Wheelbase	3200 mm + 1400 mm / 3900 mm + 1400 mm
Length	7570-8000 mm
Height	≤ 2880 mm
Width	2500-2530 mm
Front approach	≥30°
Rear departure	≥35°
Ground clearance	390-413 mm under differential
Ground clearance	≥500 mm under body
Fording	min. 600 mm without preparation
Engine output	320-450 HP
Road speed	max. 95 km/h
Steering	Mechanical hydraulic power assisted
Transmission	Mechanical, 6-speed with synchronizers, semiautomatic or automatic
Armour body	Monocoque body
Protection	According to NATO STANAG 4569 <ul style="list-style-type: none">• Basic ballistic protection level L3• Basic mine protection level 3a/3b



Some examples of possible variants:

- air defence missile carrier and launcher vehicle
- mortar carrier and launcher vehicle
- ATGM carrier and launcher vehicle
- mobile command post
- armoured ambulance vehicle
- recovery or other logistic vehicle
- any other variant for special tasks



4x4 or 6x6 WD vehicle with half armour body

- 4x4 or 6x6 WD configuration
- independent or rigid suspension
- Vehicle with half armour body
(RDO 2922, 3222, 3232, 3922, 3932 versions)

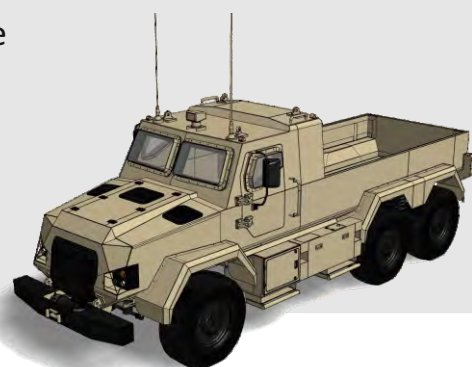


Characteristic	Parameter
Gross weight	Up to 22100 kg
Wheelbase	2900 mm / 3200 mm / 3900 mm / 3200 mm + 1400 mm / 3900 mm + 1400 mm
Length	4980-8000 mm
Height	2500-2880 mm
Width	2096-2530 mm
Front approach	≥30°
Rear departure	≥35°
Ground clearance	360-413 mm under differential
Ground clearance	398-≥500 mm under body
Fording	min. 600 mm without preparation
Engine output	286-450 HP
Road speed	max. 95 km/h – 105 km/h
Steering	Mechanical hydraulic power assisted
Transmission	Mechanical, 6-speed with synchronizers, semiautomatic or automatic
Armour body	Monocoque body
Protection	According to NATO STANAG 4569 <ul style="list-style-type: none">• Basic ballistic protection level L3• Basic mine protection level 2b-3a/3b



Some examples of possible variants:

- air defence missile carrier and launcher vehicle
- mortar carrier and launcher vehicle
- ATGM carrier and launcher vehicle
- recovery or other logistic vehicle
- any other variant for special tasks.



Unique cost effective solution: interchangeable superstructure modules!



Thanks to the interchangeable specialized superstructure modules, fewer base vehicles have to be kept in the inventory.

During trainings, or transportation tasks, a single carrier vehicle can deliver two specialized superstructure modules to the location with the help of a trailer

On the field, the most suitable superstructure module can be selected mission specifically from those available.



In case of a malfunction of the base vehicle, the specialized superstructure module can be redeployed within a short time using a different carrier.

4x4 WD patrol vehicle with monocoque

- 4x4 WD configuration
- independent or rigid suspension
- Vehicle with monocoque armour body (RDO 2921 version)



Characteristic	Parameter
Gross weight	Up to 12700 kg
Wheelbase	2900 mm
Length	4980 mm
Height	2500 mm
Width	2096 mm
Front approach	$\geq 36^\circ$
Rear departure	$\geq 42^\circ$
Ground clearance	360 mm under differential
Ground clearance	398 mm under body
Fording	min. 600 mm without preparation
Engine output	320 HP
Road speed	max. 95 km/h
Steering	Mechanical hydraulic power assisted
Transmission	Mechanical, 6-speed with synchronizers, semiautomatic or automatic
Armour body	Monocoque body
Protection	According to NATO STANAG 4569 <ul style="list-style-type: none">• Basic ballistic protection level L3• Basic mine protection level 2b

armour body






Some examples of possible variants:

- air defence missile carrier and launcher vehicle
- mortar carrier and launcher vehicle
- ATGM carrier and launcher vehicle
- recovery or other logistic vehicle
- any other variant for special tasks.








General technical parameters of RDO variants

Variants	 RDO 2921	RDO 2922	 RDO 3221	 RDO 3222
Length (mm)	4980	4980	6250	6250
Width (mm)	2096	2096	2445	2445
Hight (mm)	2500	2500	2880	2880
Crew	2-5	2-5	2-9	2-5
Wheel formula	4x4	4x4	4x4	4x4
Wheel base (mm)	2960	2960	3200	3200
G.V.W. (kg)	12700	14000	16500	16500
Engine power (H P)	286-360	286-360	286-360	286-360
Transmission	Mech./ Semi auto./ Auto.	Mech./ Semi auto./ Auto.	Mech./ Semi auto./ Auto.	Mech./ Semi auto./ Auto.
Suspension	Rigid/ independent	Rigid/ independent	Rigid/ independent	Rigid/ independent
Brakes	Hydraulic ABS	Hydraulic ABS	Air ABS	Air ABS
Basic ballistic prot.	L3	L3	L3	L3
Basic mine prot.	2a/2b	2a/2b	3a/3b	3a/3b





					
RDO 3231	RDO 3232	RDO 3921	RDO 3922	RDO 3931	RDO 3932
7570	7570	6600	6600	8000	8000
2445	2445	2500	2500	2500	2500
2790	2790	2790	2790	2790	2790
2-12	2-5	2-10	2-5	2-12	2-5
6x6	6x6	4x4	4x4	6x6	6x6
3200	3200	3900	3900	3900	3900
16500	16500	22100	22100	22100	22100
320-450	320-450	286-360	320-450	320-450	320-450
Mech./ Semi auto./ Auto.	Mech./ Semi auto./ Auto.	Mech./ Semi auto./ Auto.	Mech./ Semi auto./ Auto.	Mech./ Semi auto./ Auto.	Mech./ Semi auto./ Auto.
Rigid/ independent	Rigid/ independent	Rigid/ independent	Rigid/ independent	Rigid/ independent	Rigid/ Independent
Air ABS	Air ABS	Air ABS	Air ABS	Air ABS	Air ABS
L3	L3	L3	L3	L3	L3
3a/3b	3a/3b	3a/3b	3a/3b	3a/3b	3a/3b



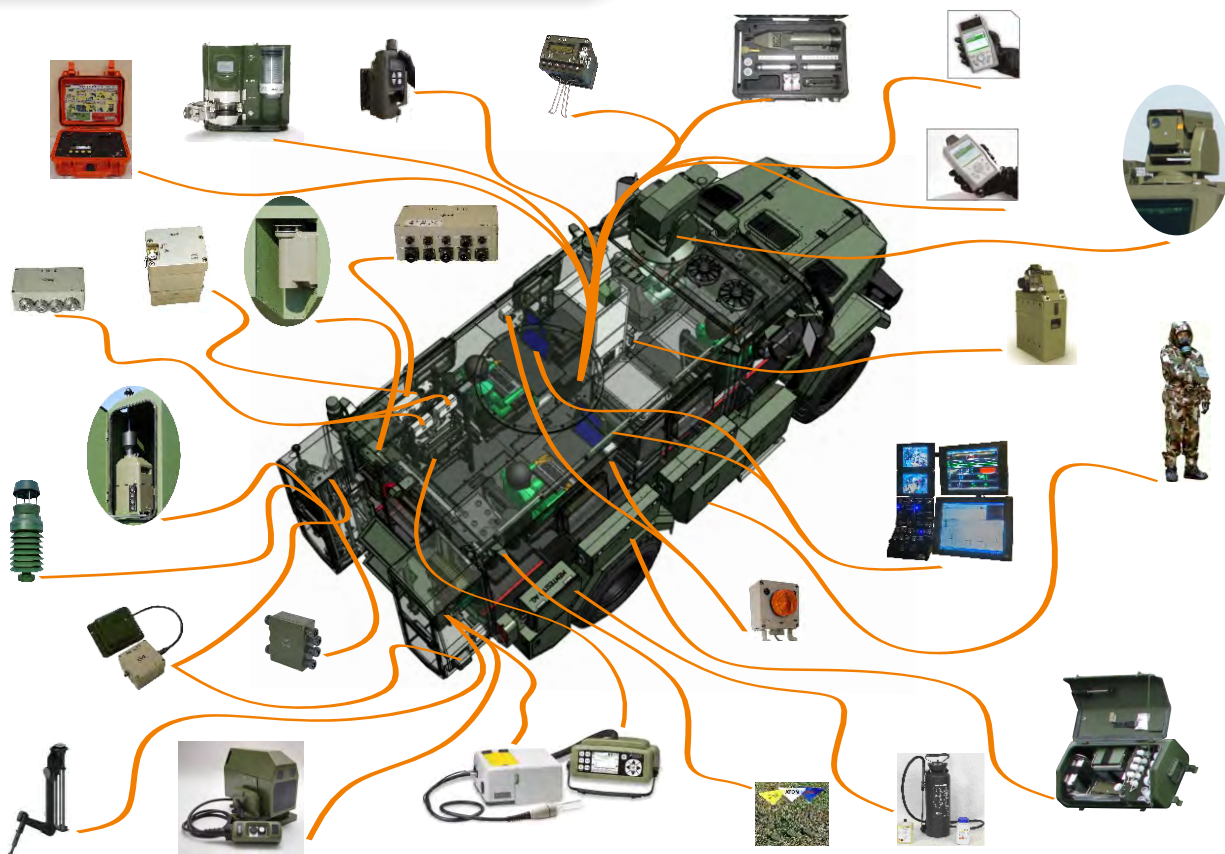
CBRN reconnaissance vehicle based on RDO

Main components:

- on-board radiation level meters
- chemical agent detection system
- chemical agent identification system
- CWA stand-off-detection system
- on-board meteorological system
- GPS module, data logger
- biological alarm monitor
- contaminated area marking system
- LCD display with ATP-45 NBC report preparing function
- sampling system with remote controlled semi-automatic manipulator
- dose rate and contamination meter
- chemical agent monitor
- bio detection kit

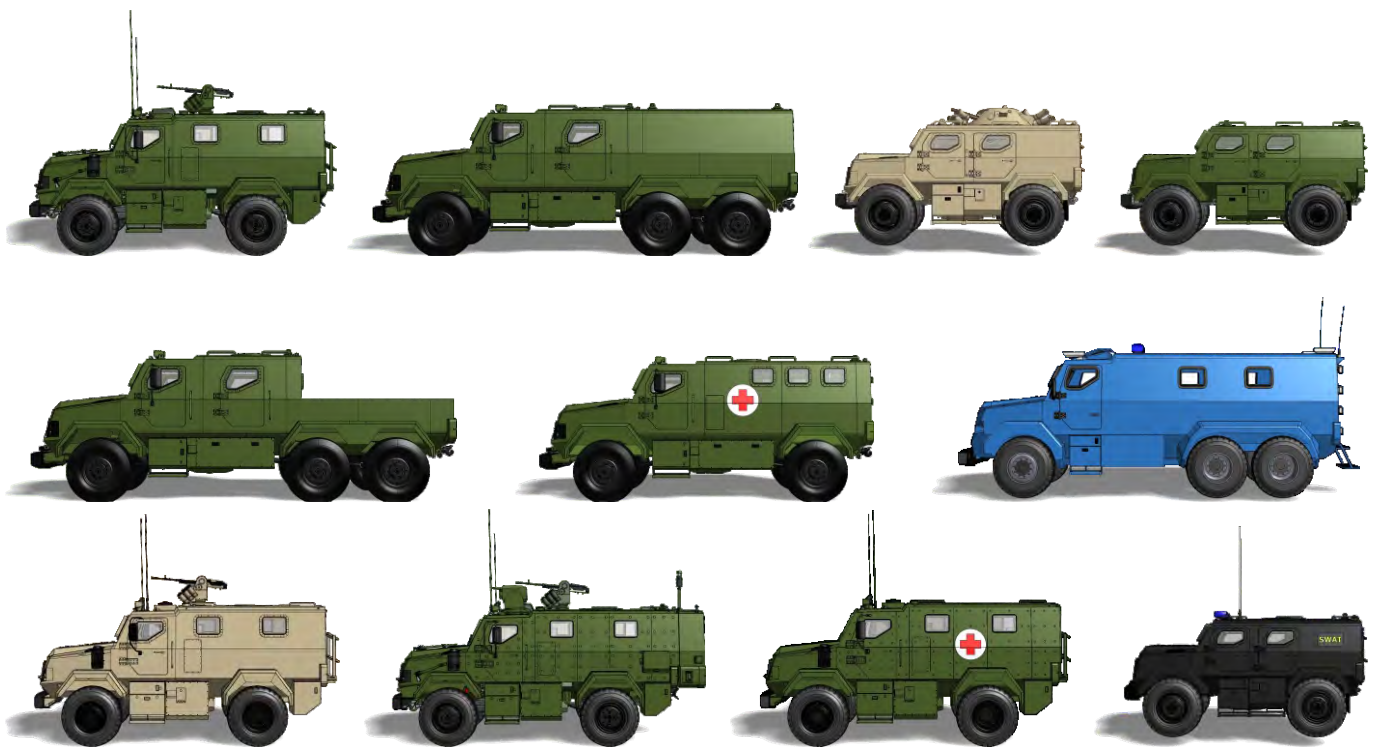


3221 KOMONDOR

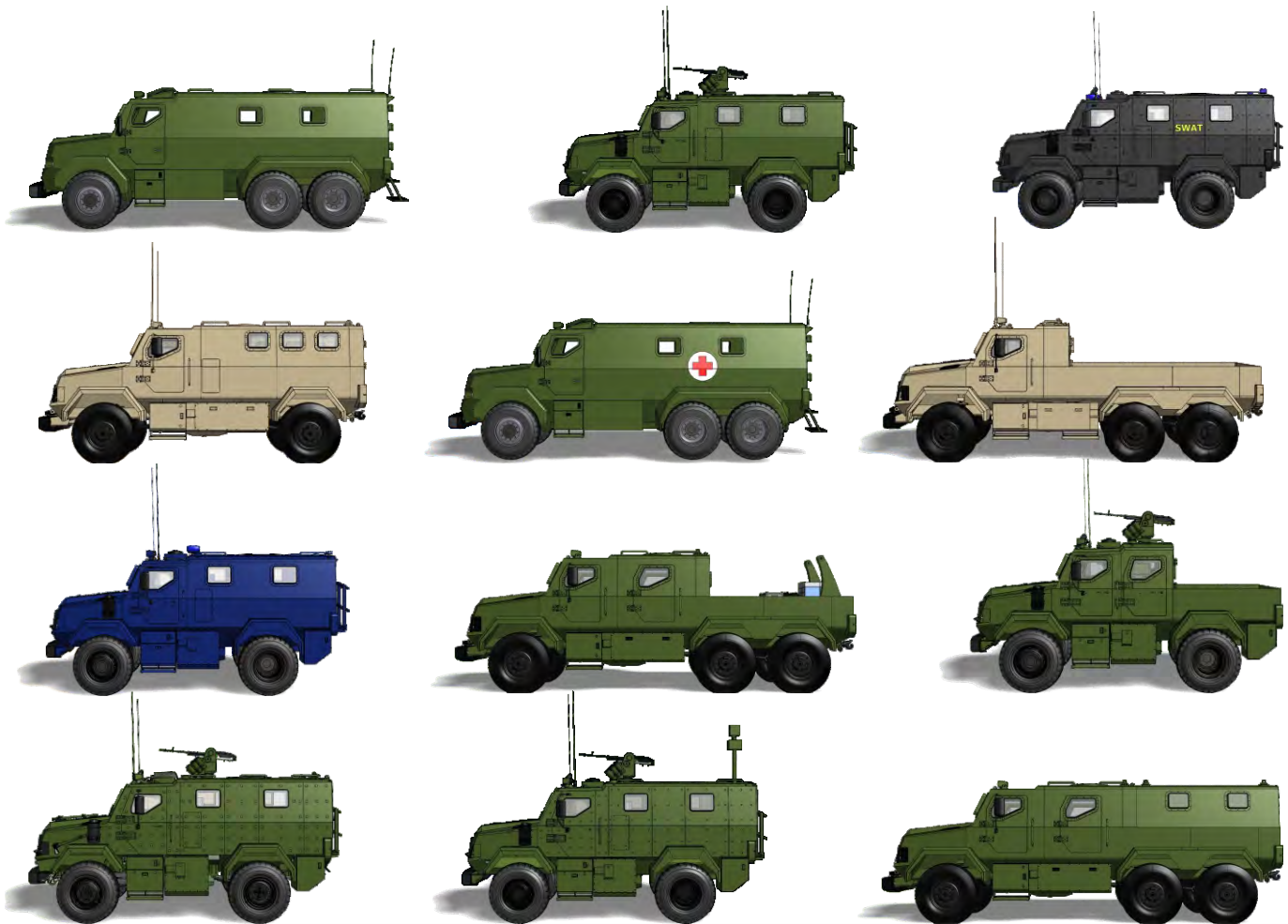


NOTES





**Have your customised Light Armoured Vehicle,
within short time, for reasonable price!**





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