meet the

ned

esigi

and was designed to fill a wide variety of roles including:

- Crew carrier
- Command, reconnaissance and liaison vehicle
- Ambulance
- Logistic transport
- Artillery tractorMeeting these roles effectively

was paramount.

Accordingly, the design process began by identifying the most demanding military requirements and ensuring

that the specification met these in terms of:

- Crew protection against small arms fire, shell splinters, anti-tank mines and improvised explosive devices (IEDs)
- High mobility on roads and cross country
- Large protected payload volume and high payload
- Transportability
- Towing capacity
- Reliability and maintainability



IVECO DEFENCE VEHICLES

Iveco Defence Vehicles

Headquarters

Via Volta, 6 I-39100 Bolzano (BZ) Phone +39 0471 905111 Fax +39 0471 905444 dvdbzcom@iveco.com

Iveco DV Benelux

A. Gossetlaan 28 A B-1702 Groot-Bijgaarden Phone +32 24671211 Fax +32 24671330

Wanraaij 9 NL-6673 DM Andelst Phone +31 488471600 Fax +31 488471635

Iveco DV UK

Iveco House
Station Road
Watford
Hertfordshire
WD17 1SR
Phone +44 1923259728
Fax + 44 1923222123

Iveco DV France

6, rue Nicolas Copernic - Trappes F-78083 Yvelines Cedex 09 Phone +33 130668000 Fax +33 130668050

Iveco DV España

Avenida de Aragon, 402 E-28022 Madrid Phone +34 913252930 Fax +34 913252925

Iveco DV Germany

Nicolaus - Otto - Strasse 27 D-89079 Ulm Phone +49 7314084409 Fax +49 7314083883





IVECO DEFENCE VEHICLES

DEFENCE VEHICLES

Crew protection was accorded particular priority during the design process, relecting the importance of achieving mission succes at minimal cost.

The base steep armour of the crew cell, produced by KMW, provides a high level of ballistic protection. This can be further enhanced to meet the predicted threat trought the use of appliqué protection developed by IBD.

The integrity of the crew cell is maintained throught a series of design features. The bonnet is hinged to the chassis rather than the crew cell and the rear cargo compartment is so designed that it will readily blow of, allowing the energy from a mine blast to dissipate. The base steel armour of the crew cell provides a high level of ballistic protection and this can be further enhanced through the use of appliqué protection to meet the predicted threat.

The transparent armour is designed to match the protection provided by the rest of the vehicle providing the overal vehicle with the ability to withstand threats up to STANAG 4569 level 3.

Protection against mine and IED attack up to STANAG 4569 Level 3 is provided both through the dewsing of the hull, with its large stand-off, underbody deflector plates and blast energy management system, and through a series of design features. Large tyres fitted with run-flat inserts optimise absorption of blast energy, whilst deflector plates lining the whell arches maximise energy dissipation.

All occupants are provided with specially designed shock dampened seats which are suspended on elastic mounts, avoiding direct transmission of blast shock to the crew.

The seats incorporate moulded padding and five point seat harnesses to reduce sudden body movements caused by both the primary (rising) and secondary (falling) effects of blast. Specially designed wrap-around head-rests provide protection from

The roof of the MPV is fitted with a lockable hacth which can be opened from both inside or outsude for safety reasons.

The Vehicle roof structure is can be accept a variety of weapons depending on customer requirements, including 7,62mm or 12,7mm machine gun and 40mm grenade launcher. Particulare care has been taken to address human factors in the design of the crew cell providing ergonomically sound and confortable working positions for all occupants, catering for 5th to 9th precentile soldiers.

The Vehicle complements this by providing high level of vibration control and shock absorption. The Vehicle's controls are designed to provide the perfect balance of automation and lightness of touch, making the vehicle responsive and easy to handle.



The MPV is a highly mobile and agile vehicle which is capable of operating across a wide range of demanding terrain. It is also well adapted to operations in demanding climatic environments, within temperature

extremes of -32°C to +49°C including

high humidity. The vehicle's particular mobility features include:

- Available in 4x4 and 6x6.
- Permanent all wheel drive.
- ADM (Automatic Drive-Train Management) aviable as option.
- ABS system designed specifically for off-road conditions.
- Pneumatic braking system, allowing rapid braking even when heavily
- Twelve speed semi-automatic gearbox with two gear transfer-box.

High reliability, ease of maintenance

key considerations during the design

from Iveco's engineering experience

on its truck range which has allowed

Built in and external diagnostics allow

timely identification of impending

malfunctions, allowing preventive

maintenance to be undertaken,

whilst the facility to collect vehicle

The use of COTS main assemblies

such as the gearbox and engine

reliability have been proven over many

demanding environmental conditions.

ensures that performance and

millions of road miles in

data allows effective whole

fleet management.

and low through life costs were

The vehicle benefits particularly

from Iveco's engineering experion its truck range which has all incorporation of a number of innovative design features.

of MPV.

High approach and departure

- Excellent ground clearance. High stability on longitudinal and transverse slopes.
- 14.00R20 tyres, providing a low mean maximum pressure to maximise terrain accessibility
- XML tyre tread, ensuring good traction over soft ground.

In its basic configuration, MPV is capable of fording depths of 0.75 m unprepared by virtue of its waterproof electrical

This provides an outstanding

excellent fleet availability.

The design imperative to

level of reliability and consequently

minimise running costs has led to a

maintenance intervals being double

MPV is fitted with a 2nd generation

the electronic control units of the

reduction in Level 1 maintenance

requirements, with scheduled

those for comparable vehicles.

CANBUS which links

engine, gearbox and ABS.

This can be extended to a depth of 1.2 m by adding extensions to the air intake and exhaust.

MPV's weight and size ensure that it is highly transportable:

By rail transport on standard

By interrogating the system with a

diagnostic tool, the maintainer can

gather diagnostic and prognostic

information in real-time, enabling

Ease of maintenance has received a

very high priority, with ready access

being provided to undertake checks

maximum use being made of repair

by replacement. All Level 1 checks can

of assemblies, or use of special tools,

while all Level 1 maintenance can

be undertaken by the crew, using

be carried out without any dismantling

and routine servicing tasks, and

pre-emptive maintenance to be

planned

onboard tools.

- By RO-RO ferry.
- By air: in C130J with preparation and in heavy strategic airlift such as C-5, C-17, A400M.

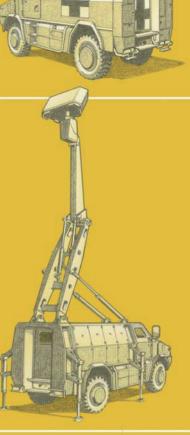


















Dimensions

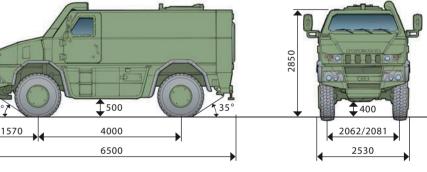
Wheelbase	mm	4000	3000/139
Track (front and rear)	mm	2062/2081	2062/208
Max width	mm	2530	253
Overall length	mm	6500	740
Height (cabin top line)	mm	2850	308
Min. height (under front axle)	mm	400	40
Min. height (undercarriage)	mm	500	50
Front/rear incidence angles		35°/35°	35°/3!

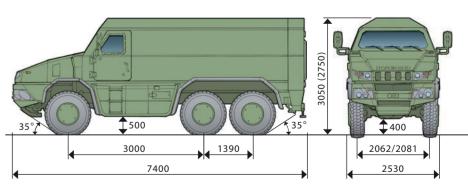
Mass and payload / towing capacity

al mass on the ground	kgs	18000	25000
e	kgs	15000	20500
load	kgs	3000	4500
ss Combination weight	kgs	40000	40000

Performance

Max speed	km/h	>90	>90
Max longitudinal slope gradient		>60%	>60%
Max transverse slope gradient		30%	30%
Turning circle (kerb to kerb)	m	17.5	18
Fording depth (without preparation)	mm	750	750
Fording depth (with preparation)	mm	1200	1200
Power/weight ratio	kW/t	15	13.3
		(20 hp/t)	(17 hp/t)





The data contained in this brochure is purely indicative and Iveco D.V. reserves the right to modify or to upgrade in accordance with future technical developments without notice

