

TRUCKS

Tactical and logistic vehicles



IVECO
DEFENCE VEHICLES

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TRUCKS

Iveco Defence Vehicles is one of the premier manufacturers of military trucks in Europe, offering an outstanding product range designed to meet the full spectrum of operational roles demanded by the military user. With more than 70 years of experience of designing and manufacturing both logistic and armoured vehicles, Iveco has an extraordinary depth and breadth of engineering expertise which is continuously refreshed and updated through feedback from operations and from the marketplace. The result is one of the most technically advanced, reliable and maintainable product ranges in the world. From adaptable light trucks starting at 5.3 tonnes GVW, to rugged 41 tonne 8 wheelers, the Iveco Defence Vehicles range is built with the needs of the military user in mind.

Flexibility of employment and reliable logistic back-up are essential to support the full range of operations undertaken by our customers. To meet these demands, our trucks are highly adaptable and possess outstanding strategic and tactical mobility. Supported by our world class parts distribution system, once our trucks are in theatre, we ensure that they can be sustained there. This ensures they play their part in delivering the maximum capability on the ground in the shortest possible time.

With a wide range of our vehicles operating in countries worldwide, we have a deep understanding of the effects of hostile climates and terrain on our vehicles. This enables us to engineer them to meet the most hostile operating conditions, meeting STANAG requirements for operability and functionality in a broad spectrum of climatic conditions.

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A logistic capability, protected and non protected

Iveco Defence Vehicles offers the full Iveco range of panel vans and light trucks through to transporters capable of moving loads in excess of 75t. Available as 4x2, 4x4, 6x4, 6x6, 8x4 and 8x8, these vehicles fulfil logistic roles for a wide range of defence forces from the rear echelon up to the forward areas.

One of the characteristics of current operations is that there is no front line, with logistic troops as likely to be attacked as combat arms. In recognition of this, Iveco Defence Vehicles has worked to develop a class leading protected cab which can be fitted to the 4x4, 6x6 and 8x8 Trakker chassis to provide permanent ballistic and anti-mine protection. The result is a robust, highly mobile but cost effective logistic vehicle which can operate even in high threat areas.





Iveco Defence Vehicles also offers a full range of battle proven 4x4, 6x6 and 8x8 purpose designed military logistic vehicles. This range of vehicles offers exceptional mobility and fording capability to provide tactical support to any military operation in the most hostile environmental conditions.

This product range can be readily customized to match specific user needs by virtue of its modular design, which embraces both the cab and the driveline.

With these vehicles too, crew survivability has been accorded a high priority. The whole range can be equipped with a new generation of appliqué armour kits providing both anti-mine and ballistic protection. To ensure that these vehicles retain their outstanding flexibility and adaptability, the appliqué armour can be readily fitted and removed in the field.

Mobility TRUCKS

The backbone of every Iveco Truck is a robust parallel frame designed to resist bending, but remain elastic to torsional stress. The frame is manufactured from high-quality, fine-grained steel.

In all areas of vehicle design, Iveco exploits the latest technical innovations to ensure that the performance of its vehicles is maximised. Hub reduction gears are offered as standard equipment, concentrating the driveline's power where it is actually needed: in the wheel. This reduces stress on the drivetrain, so lengthening its service life.

A similar innovation is the self-adjusting "Stopmaster" wedge brake which can bring even a vehicle loaded to its maximum GVW to a halt within a very short distance. The braking force applied to the rear wheels can be automatically controlled as a function of load.

In Iveco vehicles, the type of transmission used is carefully matched to the intended application. For example, a robust, full constant-mesh gearbox design is recommended for transmitting high torque over closely spaced gear-ratios and is therefore particularly suitable for crossing demanding terrain. By contrast, synchromesh-gearboxes are appropriate for use in military vehicles intended primarily for on-road driving.

A wide range of power take-offs is available to maximise the utility of our vehicles. These can accommodate couplings from ancillary equipment (such as winches, pumps, hydraulic pumps, etc.).





In order to ensure uniformity of design wherever possible, all of the powered axle housing assemblies are in principle the same – as are the dimensions for mounting them. The one basic housing can be adapted to a whole range of axle-load capacities merely by appropriate changes to material ratings.

Each of the differentials in the rear axles can be locked to enhance mobility on the most difficult terrain. Slippage of any driven axle can be eliminated by use of the inter-axle-lock.

The rear tandem axles on six-wheelers provide rocking suspension and thus ensure optimal road-contact and maximum adhesion even on the roughest terrain. The individual axles can dip and rise up to a total angle of 20° relative to each other.

On vehicles with driven front axles, the transfer case is suspended from four mounts and features both on- and off-road ranges with additional gear-reduction. The planetary differential can be locked for driving on rough terrain and enabling torque to be distributed in exact proportions to the individual axles.

The full suspension and axle assemblies are designed to operate effectively under heavy loads and yet still remain maintenance free.

Vehicles can be equipped with CTIS, automatic or semi automatic transmission, and Euro 3, 4 or 5 engines, ensuring the range matches requirements for out-of-area operations.



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Modularity

Through its own research, combined with feedback from the military community over many decades, Iveco has evolved a vehicle family ideally suited to current operational needs. A key attribute, repeatedly identified as being of critical importance, is modularity of design.

To deliver true modularity, each vehicle is designed from the concept stage to readily accommodate a range of cabs, driveline assemblies and engine types. This allows a dedi-

cated project design team to develop develops specific solutions for each customer.

By maximising commonality of components and assemblies, the logistic footprint is reduced whilst, by introducing a modular load carrying system, flexibility is improved and the utility of the fleet is greatly enhanced. Iveco has addressed both of these requirements with flair and innovation.



THE MODULAR APPROACH TO PRODUCT DEVELOPMENT PROVIDES THE MILITARY USER WITH NUMEROUS BENEFITS INCLUDING:

- product variants available without reengineering, reducing timescale and cost
- optimum combination of power, protection and payload.
- flexibility in operation and improved supportability through improved availability and ease of upgrade
- Commonality of parts, reducing spares holdings and improving whole fleet management.

The key was to develop a modular vehicle design, one of the first such to be developed for utility vehicles. Today, this system has been perfected to such a degree that production vehicle types are built almost completely from standardized assemblies, including the cab, steering assembly, power train, transfer case, frame, suspension and axle mounts, axles and brakes.

To ensure that the range of vehicles meets the full spectrum of user's needs, Iveco has exploited its database of knowledge built up through feedback from its worldwide customer base, who together procure thousands of vehicles each year. This has allowed the development of a wide range of production options to further customise the vehicles.



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Protection

As the traditional frontline disappears, soldiers are at as much risk of attack carrying out routine logistics tasks as they are when on patrol. It is therefore essential that they are provided with the best possible protection against attacks both from IEDs and from small arms attack.

Iveco has worked consistently to develop appropriate protection systems to enhance vehicle crew survivability, drawing heavily on our armoured vehicle expertise to ensure that each vehicle is provided with the most cost and weight efficient solution.

In keeping with the design philosophies behind these complimentary vehicle families,

the solution for Trakker is a ballistic steel cab which replaces the commercial one completely, whilst the High Mobility range is provided with an appliqué system. In both cases, the solution focuses on providing maximum protection against ballistic attack, mine blast and IED, with options allowing the customer to tailor protection according to the forecast threat.

The Trakker's protected cab has been demonstrated in repeated user trials to be class leading in its field, complimenting high levels of survivability with the ability to carry a full range of mission equipment under armour, including radios and ECM.





In line with the modular design philosophy adopted for the High Mobility range, similar levels of survivability are provided, but here greater flexibility is given by using a modular system. The specially designed cab will allow integration of appliqué opaque and transparent panels to provide ballistic and IED protection which can be mounted or dismounted whilst deployed on operations. This is complimented by a mine protection kit which, again, can be fitted in the field. Taken as a whole, this approach enables protection to be tailored to meet the predicted threat, whilst facilitating repairs and allowing technological upgrades to avoid obsolescence.



TRUCKS

Worldwide Service

GLOBAL SERVICE NETWORK
Total service point: 4.650

With more than 4600 service points in the 5 continents, Iveco has true global coverage which, combined with an appreciation of particular local concerns, enables the company to provide assistance where and when it is needed and to respond to major situations quickly and effectively.

Equipped with state-of-the-art diagnostic and communications technology, each service point is able to identify the fault and get the vehicle back on duty, without delay.

All Iveco DV's vehicles profits from this strong service network, easy-to-repair technology, and prompt spare-part availability in every corner of the world.

Latin America
Service point: 161





The data contained in this publication is purely indicative and not binding.