

PUMA  
THE ULTIMATE AIFV



PSM



The new challenges of the global political situation have considerable impacts on future military conflicts, which in turn significantly influence the equipment of the armed forces. While weapon systems have so far been designed for durability and effectiveness in confrontations with equal opponents, future-oriented weapon systems must meet more extensive military requirements and demand new technical solutions.

The decision in favour of the new armoured infantry fighting vehicle of the German Army has opened up a new chapter in the history of army technology. With the Puma, the German Army will receive a top product of the German defence industry.

# A NEW CHAPTER IN ARMY TECHNOLOGY: THE PUMA

## Performance Capabilities

- Maximum survivability of the crew
- under a large variety of different symmetric and asymmetric threats
- in conflicts of all intensity levels
- with the option for adequate escalation and de-escalation
- in rapid, global deployments
- within international operations under multi-national command

requires maximum technical performance capabilities in terms of

- Protection
- Fire power
- Mobility and
- Command and control

## Innovation

- Shorter technological innovation cycles
- without reducing the in-service life and
- changing operational doctrines

require innovative approaches in terms of

- Viability for the future
- Modularity and
- Flexibility

## Deployability

- Global missions over long distances
- with inadequate infrastructure
- under extreme climatic conditions
- with long mission times

place high demands on mission capability and require

- Reliability
- Ergonomics
- Mission-optimized logistics and
- Mobile training equipment

### **Protection**

The Puma incorporates what is currently the world's best combined protection against mines, shaped charges and KE ammunition as well as NBC weapons. To support this capability, the vehicle features passive, reactive and active armour elements. State-of-the-art optical and optronic vision equipment allows early reconnaissance and quick reaction to threat situations.

### **Fire Power**

Its stabilized 30 mm automatic cannon enables the Puma to engage targets on the move with high precision and effectiveness. Its ammunition with time fuze technology enables the crew to fight against a variety of different threats. As in the case of a battle tank, it is possible to engage several different targets within an extremely short period of time.

The Puma is modularized which ensures flexible adaptation of the system to a variety of different missions as well as an appropriate reaction to all threat scenarios.

The contiguous crew compartment and unique bandwidth of the vehicle weight ranging from 29 to 43 tons offer great flexibility with a view to inter-

### **Reliability**

The Puma is developed and built to acknowledged German and international standards. Consistent high quality and maximum reliability are guaranteed.

Component design redundancy and degraded modes ensure a high level of operational readiness.

### **Ergonomics**

Numerous technical features of the Puma, such as simple operation, decoupled running gear, air-conditioned interior and an innovative seating concept afford the crew a high level of endurance in sustained operations.

### **Mobility**

The Puma is air-transportable by the A400M aircraft and ready for deployment immediately after landing. Its specific power-to-weight ratio (up to 25 kW/t), combined with the decoupled hydro-pneumatic running gear provides the vehicle with unique, operational mobility.

### **Command and Control**

Standardized interfaces support the integration of the Puma into all command and information systems as well as its deployment in combined arms operations. The integrated communications concept along with the revolutionary design of a contiguous crew compartment ensures optimum information and highest situational awareness of all members of the crew.

facing future technologies and alternative/additional equipment.

This new concept makes the Puma an ideal platform for a large number of further combat vehicles.

The Puma is optimally prepared to meet the challenges of the 21<sup>st</sup> century.

### **Mission-Optimized Logistics**

The integrated test system for fault location allows the crew to identify faults and to initiate quick remedial action.

This ensures maximum operational availability.

### **Mobile Training Equipment**

With the transportable training equipment which can be adapted to the vehicle, the Puma crew can be trained on the weapon system at any time and any location, practise with the weapon system and simulate missions.



### Performance Data

Weight, protection level A (air-transportable by A400M):	31.45 t
Weight, protection level C (rail, road, sea):	40.70 t
Gross vehicle weight (GVW):	43.00 t
Crew:	9 (6+3)
Length-width-height:	7.33 m/3.71 m/3.05 m
Maximum speed (road), forward/reverse:	70/40 km/h
Engine power:	800 kW
Specific power-to-weight ratio:	up to 25 kW/t
Chassis:	decoupled running gear
Turret:	unmanned, remote-controlled
Main armament:	MK 30-2/ABM, cal. 30 mm
Secondary armament:	MG 4, cal. 5.56 mm

The Puma is being developed and manufactured under the overall system responsibility of PSM. PSM combines the globally recognized know-how of the two leading German companies for land systems Krauss-Maffei Wegmann and Rheinmetall Landsysteme. With the participation of additional reputable German manufacturers, the Puma thus represents the answer “Made in Germany” to the challenges of the future.



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