

Preface

The Puma Armoured Infantry Fighting Vehicle – Future-Viable Equipment for Mechanised Infantry 3
 Lieutenant General Jörg Vollmer, Chief of Staff, German Army

Forewords

The Puma Armoured Infantry Fighting Vehicle (AIFV) 6
 Wolfgang Hellmich, Member of the Bundestag, Chairman of the German Bundestag's Defence Committee

Puma Armoured Infantry Fighting Vehicle – Reference also for Future Developments 8
 Dr. Hans Christoph Atzpodien, Chief Executive Officer BDSV e.V.

Concept

The Puma AIFV – The Optimum Asset for the Mechanised Infantry Today and Tomorrow 9
 Mark Mozer, Assistant branch chief at the Federal Ministry of Defence

Army Requirements for the VJTF Puma AIFV Capability Profile 13
 Captain David Di Dio, Assistant Section Chief, Mechanised Infantry at the German Army Concepts and Capabilities Development Centre

Puma Armoured Infantry Fighting Vehicle – Capability Requirements in the "Panzergrenadier" System 16
 Michael Horst

Puma AIFV – Procurement and Control of In-Service Support under One Roof 22
 BAAINBw K 5.2/Mittler Report Verlag

The Puma in the Army 26
 Lieutenant Stefan Gewinner

Puma Armoured Infantry Fighting Vehicle – From the Drawing Board onto the Battlefield 28
 Captain Simon Schwägerl, Desk officer for the Puma AIFV at the Land Systems Technology Training Center

System

Implementation of Capability Requirements in Technical Solutions within the Framework of the Complete Puma AIFV System 32
 PSM Projekt System & Management GmbH

System-based Boundary Conditions for the Puma AIFV 36
 PSM Projekt System & Management GmbH

Modularity and Standardisation to Maintain Future Viability 40
 R. H. Huth, PSM Projekt System & Management GmbH

Technologies

The Turret of the Puma AIFV and its Control Stations – Concept with Fire Control 44
 KMW GmbH & Co. KG

rothe erde® wire-race bearings – Equipped for tomorrow's mission 48
 thyssenkrupp rothe erde Germany GmbH

Slip Rings: Customised, Efficient and Robust 49
 Schleifring GmbH

High-Performance Power System and Digital Electric Gun Turret Drive System GTdrive® from VINCORION 51
 VINCORION – JENOPTIK Advanced Systems GmbH

The Puma AIFV Armament Concept 53
 Rheinmetall Defence

MELLS (Spike LR) – State-of-the-Art Guided Missile Weaponry for the Puma 58
 EuroSpike GmbH

Turret-independent Secondary Weapon System Rheinmetall Defence	60
Communication and Command Combat Forces Command and Control System KMW GmbH & Co. KG	62
One-stop command support communication systems solutions ATM ComputerSysteme GmbH	64
Vehicle communication system for Puma Armoured Infantry Fighting Vehicle Martin Stalp, Solution Manager, Thales Deutschland GmbH	66
Robust radiocommunications as the basis for digital command and control effectiveness Rohde & Schwarz GmbH & Co. KG	68
Future Soldier – Expanded System: Status and Ongoing Development from the Viewpoint of the Contractor Author team Rheinmetall Defence	71
The Puma AIFV Chassis Innovative components for maximum mobility Rheinmetall Defence	74
Safety Seat Systems – Integral component of the overall Puma AIFV safety concept AUTOFLUG GmbH	76
The Expert of Day View Systems Periscopes – bullet resistant glass GuS GmbH & Co. KG	77
Running Gear – the Legs of the Puma AIFV KMW GmbH & Co. KG	78
Made-to-measure for the Puma AIFV: the MTU PowerPack MTU Friedrichshafen	80
Transmission and Final Drive for AIFV Puma RENK AG	81
Overall Protection Concept KMW GmbH & Co. KG	83
Protection of the Puma AIFV against Shaped Charge Threats by Means of Explosive Reactive Armour Dynamit Nobel Defence GmbH	85
GEKE Schutztechnik GmbH Your Specialist for Sophisticated Protection Concepts GEKE Schutztechnik GmbH	88
Complete solutions from one leading supplier HENSOLDT	89
Logistics	
Puma System Logistics PSM Projekt System & Management GmbH	91
Training	
Training Materials for the Puma AIFV PSM Projekt System & Management GmbH	93
Future Trends	
Puma AIFV 2023 and Subsequent Years PSM Projekt System & Management GmbH	97

Imprint

Defence Technology Review 3/2019
July 2019

Publishing House:
Mittler-Report Verlags
GmbH ein Unternehmen
der Gruppe Tamm Media

**TAMM
MEDIA**

Managing Directors:
Dr. Peter Boßdorf
Peter Tamm
Thomas Bantle

Director of Marketing:
Jürgen Hensel

Managing Editor:
Michael Horst

Editorial Team:
Gerhard Heiming
Dorothee Frank
Lothar Schulz
Christina Langer

Layout:
CREATIV.CONSULTING GmbH, Germany

Translation:
Context GmbH,
Bundessprachenamt

Office address:
Mittler Report Verlag GmbH
Baunscheidtstraße 11, D-53113 Bonn
Phone: +49(0)228 3500870
Fax: +49(0)228 3500871
E-Mail: info@mittler-report.de
Web: www.mittler-report.de

Subscription/Reader Service:
PressUp GmbH, Postfach 701311,
22041 Hamburg
Phone: +49(0) 40 - 38 66 66 - 0
Fax: +49(0) 40 - 38 66 66 - 299
mittler-report@pressup.de

Production:
Lehmann Offsetdruck GmbH
22848 Norderstedt, Germany

Single Copy Price: 14,80 Euro
(shipping not included)

Pictures/Illustrations:
Authors, unless otherwise referenced

Copying of any part of this publication without the
express authorisation by the publisher is prohibited.

