



MILITARY TECHNOLOGY

The Political Order is Being Challenged..... 4
Dennis-P. Merklingshaus

Opinion

Negating the Chance for Transgender Troops 6
Andrew White

The Growing Misrepresentation of Military Capabilities..... 6
Guy Martin

The US State of Defence 2017:
Eyeing Readiness First, Modernisation Later..... 8
Taylor Bright

Exports Will Be Important to Turkey's Strategic Plan Goals..... 9
Kubilay Han

Industrial Focus..... 12
MONS Gear Box 23

Topic

Electro-Optical & Infrared (EO/IR) Developments..... 43
Peter Donaldson

Airborne Electro-Optical and Infrared Sensors..... 50
Beth Stevenson

Soldier Modernisation..... 55
Andrew White

Features

Re-Thinking the MBT in 2017: Upgrading Tank Philosophy 65
John Antal

Global Assault Rifles 77
Brian Kindamo

Trucks 82
Malcom Phillips

Testing Centres in the Spotlight

Creating "Hell on Earth" for Defence Materiel 86
Stefan Bratt



Four Dimensional Naval Test, Training and Exercise Arena:
FMV Naval Test Ranges..... 87



Transport Aircraft Special: C-27J SPARTAN



C-27J SPARTAN –
More Than Just an Airlifter 69
Alan Warnes







Personal Statements of the Chiefs of Defence



 
Gen. Othmar Commenda,
Chief of Defence Staff
of the Austrian Armed Forces 24



 
Gen. Josef Becvar
Chief of Defence
of the Czech Armed Forces..... 26



 
Gen. Bjorn I. Bisserup,
Chief of Danish Defence 28



 
Gen. Jarmo Lindberg,
Commander of the
Finnish Defence Forces..... 30



 
Gen. Claudio Graziano,
Italian Chief of the
Italian Defence General Staff..... 32

 
Adm. Haakon Bruun-Hanssen,
Chief of Defence Norway 33

 
Lt. Gen. Leszek Surawski, Ph.D,
Chief of the General Staff
of the Polish Armed Forces 34

 
Gen. Artur Pina Monteiro,
Chief of General Staff
Portuguese Armed Forces..... 36

 
Milan Maxim,
Chief of the General Staff of the Armed Forces
of the Slovak Republic 38

 
Gen. Fernando Alejandro,
Chief of the Defence Staff
of Spain..... 41

Spotlight on the USMC



US Marine Corps Programme Highlights..... 100
Marty Kauchak

Movement of Contact: USMC Amphibious Assault..... 105
Stephen Miller

USMC Amphibious Vehicles: ACV 1.1 Detailed 107
Massimo Annati

Spotlight on Poland (MSPO Focus)



Jewels in the Crown Series..... 88
 Polish Armed Forces Modernisation 2020 and Beyond.....91
 Robert Czulda
 The Future of the Polish Defence Industry 96
 Eugene Kogan
 Constant Bearing, Decreasing Range:
 60 Seconds with the Polish Navy 99
 Robert Czulda

Company Snapshots



B.E. Meyers Meets Evolving Soldier Needs..... 60
 Interview with Matthew Meyers,
 President, B.E. Meyers & Co. Inc



**RUAG Cyber:
 Applying the Latest Patches for Cyber Security. 120**
 Interview, Dr. Markus Zoller,
 CEO of RUAG Defence



**Sikorsky Details Rotorcraft Future:
 Very Confident CH-53K to Win International
 Competitions..... 110**
 Interview with Dan Schultz,
 President of Sikorsky, a Lockheed Martin company

Weapon Systems Features

**Seeking a 90% Solution:
 The US Army's Mobile Protected Firepower (MPF)..... 85**
 Stephen Miller
**A Leap Forward in Suppressor Technology:
 3D Printed Suppressors..... 80**
 Dennis-P. Merklingshaus
Bundeswehr Procurement Special 141
 Dennis-P. Merklingshaus

C5I Forum

**Scanning the Landscape: Land Surveillance and
 Reconnaissance Systems: Concepts and Experiences..... 112**
 Rick Adams
Mounted/Dismounted Communications 116
 Andrew White

Technology: The Final Frontier –

Dynamic by Name and Nature: Chess Dynamics at Work 121
 Tim Mahon

Unmanned Focus

Perch and Stare: Quadcopters in Urban Operations..... 124
 David Oliver

Special Forces Feature

Special Riverine Operations Craft..... 122
 Massimo Annati

From the Bridge/Spotlight on Australia



Setting the Royal Australian Navy on a New Course 126
 Peter Donaldson

To Be Seen at DSEI 130
News..... 134
Military Component Market Overview 140



Cover

The MAWL-DA and MAWL-C1+ individual weapon infrared aiming laser by B.E. Meyers offer ergonomic, clarity, modularity and interface enhancements as well as great infrared illumination output power. (Photo: B.E. Meyers)

Small inserts on cover depict: marines and sailors aboard a landing craft return to the well deck of the USS ASHLAND in the Coral Sea on 15 July 2017, after participating in a large-scale amphibious assault event as part of Exercise "Talisman Saber 17" (Photo: US Navy/ Petty Officer 3rd Class Jonathan Clay), Polish Armed Forces using

light Polish LM-60 mortar (Photo: ZM Tarnów), and FRISC training in the US (Photo via Annati). Small insert in contents shows B-2 stealth bomber flanked by F-15 at RIAT 2017 (Photo: Georg Mader)

Index of Advertisers

AIM Infrarot-Module GmbH 49
 Aimpoint AB 58
 B.E. Meyers & Co., Inc. 63
 Bittium Wireless Oy 61
 Bofors Test Center AB 30
 boger electronic GmbH 94
 C.I.O. – Iveco – Oto Melara SCRL 67
 CONTROP Precision Technologies Ltd. 43
 Datron World Communications Inc. 9
 Defense & Security 2017 22
 DSA 2018 10
 Eurosatory 2018 81
 Excalibur Army 97
 FLIR Systems, Inc. 7
 FMV - Försvarets Materielverk 34
 FNSS Savunma Sistemleri AS 40
 General Dynamics European Land Systems 25
 Hemus 2018 54
 HENSOLDT Sensors GmbH 27
 Hirtenberger Defence Europe GmbH 13
 IAI Elta Systems Ltd. 5
 Indodefence 2018 109
 Invisio Communications A/S 57
 IVECO S.P.A. 93
 I/ITSEC 2017 84
 Janson Bridging BV 37
 Kärcher Futuretech GmbH 2nd cover
 Kelvin Hughes Ltd. 11
 KTK Kommunikationstechnik GmbH 68
 LEONARDO SPA 53, 119
 Lincad Ltd. 59
 L3 WESCAM 47
 Meggitt Defense Training Systems 103
 MESIT pristroje spol. s r.o. 117
 Motec GmbH 15
 Nammo AS 79
 Orbital ATK, Inc. 35
 Oy Forcit AB 39
 Patria Oyj Oy 83
 Photonis Netherlands BV 45
 Prologium 17
 Qioptiq Ltd 31
 RAFAEL Advanced Defense Systems Ltd. 4th cover
 Revision Military Inc. 3
 roda computer GmbH 115
 Roketsan Missiles Ind. Inc. 51
 RUAG Schweiz AG 33
 Saab AB 41
 Safran Electronics & Defense 29
 Telephonics Corporation 19
 Weibel Scientific A/S 91