

AVIATION WEEK

& SPACE TECHNOLOGY



DIGITAL EDITION Tap this icon in articles in the digital edition of AW&ST for exclusive features. If you have not signed up to receive your digital subscription, go to www.aviationweek.com/awstcustomerservice

- 8 Feedback
- 9 Who's Where
- 10-11 The World
- 12 Up Front
- 13 Commander's Intent
- 16 Inside Business Aviation
- 17 Airline Intel
- 18 In Orbit
- 19 Washington Outlook
- 47 Classified
- 48 Contact Us
- 49 Aerospace Calendar

THE WORLD

- 10 Boeing tackles** previously undisclosed development issues with wiring bundles on the KC-46A
- 10 Taiwan probes** TransAsia Airways ATR 72 accident in bad but acceptable weather for landing; 48 die
- 11 Hachey 'retires'** as Bombardier restructures aerospace unit, creates three stand-alone segments
- 11 MD-83 operated** for Air Algerie loses contact, crashes in Mali with 123 passengers and crew onboard

MH17

- 20 MH17 tragedy** highlights aviation's fragmented and uncoordinated approach to airspace risk assessment

- 23 Russian Buk-series** weapons can launch and guide missiles without discriminating among types of air traffic



20

Pieces of wreckage from Malaysia Airlines Flight 17 showing puncture holes consistent with shrapnel provide the clearest direct evidence yet that the Boeing 777-200 in cruise over eastern Ukraine was brought down by a surface-to-air missile.

DEFENSE

- 26 New Japanese** policy on arms exports opens opportunities for foreign licensing partners
- 27 MBDA develops** ramjet missile that is still under power as it closes in, so it chases down a fleeing fighter
- 29 South Korean** military quashes attempt to reduce the cost and technical challenge of proposed KF-X
- 37 Chinese warship** makes a big splash off Hawaii at world's biggest maritime exercise

ROTORCRAFT

- 30 Rather than a** technological game-changer, Airbus's X4 will be aimed at meeting expectations

SPACE

- 31 Next SpaceX Dragon** flight to ISS to include a tool its builders hope will help change how space is explored

AIR TRANSPORT

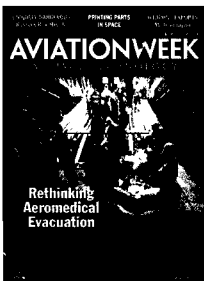
- 33 Airbus advances:** Hawaiian opts for A330neo; A350 passes maximum-energy rejected-takeoff test
- 34 Air New Zealand** taps Boeing 787-9 and Airbus A320neo to overhaul its international fleet and routes
- 35 Royal Brunei** bets on lifestyle-focused cabin offerings to distinguish itself from the competition

FACE TO FACE

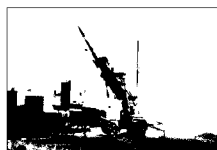
- 39 IAI president** discusses plans to expand the company's presence in the global space sector

ON THE COVER

Members of the Contingency Aeromedical Staging Facility (CASF) and 455th Expeditionary Aeromedical Evacuation Sqdn. help to load patients onto a Boeing C-17 Globemaster III at Bagram Airfield, Afghanistan, in March 2013. The CASF is the relay between Bagram's Craig Joint Theater Hospital and aeromedical evacuation missions throughout Afghanistan. A shift in thinking about how to use aircraft to project complex medical care farther into the battle space has dramatically cut the risk of dying in combat for U.S. personnel (see page 40). Photo by USAF Senior Airman Chris Willis.



31 Space station crew to install a 3-D polymer printer rated for spaceflight, and then evaluate how it works in microgravity.



26 Japan authorizes Mitsubishi Heavy Industries to supply guidance components for PAC-2 surface-to-air weapons under a new licensing policy.

MILITARY AVIATION

40 **Shift in use** of aircraft to project medical care deeper into battlespace has reduced deaths dramatically

43 **Air Guard's** cost-effective training allows custom scenarios so one sortie can offer multiple opportunities

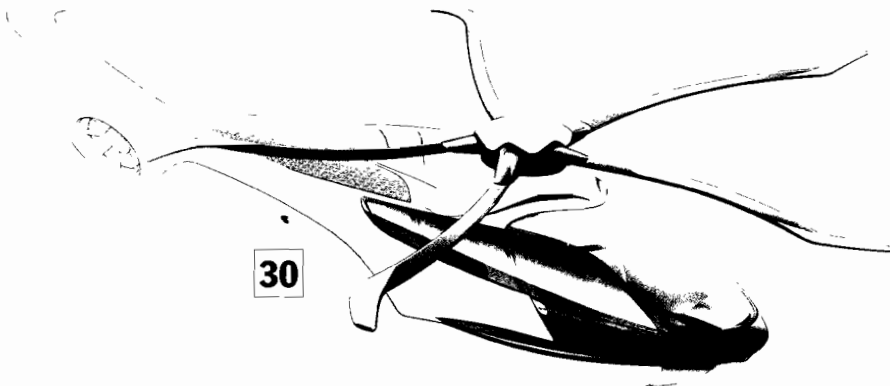
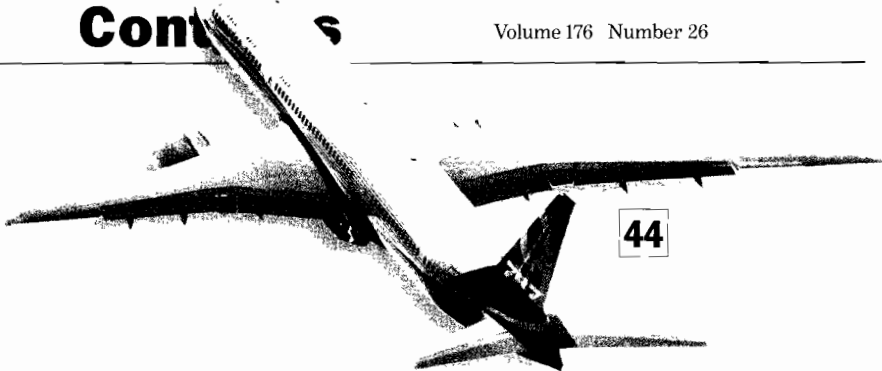
FARNBOROUGH 2014

44 **Heads of major** aerospace organizations talk about the show and the state of the industry

46 **Orders pour in** for current turbo-prop models, but launch of a larger, 90-seater remains elusive

VIEWPOINT

50 **Folding USAF** back into the Army and Navy would bring procurement reform for the whole military



On the Web

A round-up of what you're reading on AviationWeek.com

As the Pentagon seeks extra funds to subsidize increased production of Israel's iron Dome rocket-defense system, its performance amid escalating Gaza hostilities is coming under fire from critics. Read our Ares blog, which includes detailed diagrams of Iron Dome operations (ow.ly/zxvRX). AviationWeek.com/Ares

DIGITALGLOBE



DigitalGlobe satellites imaged the area of eastern Ukraine where Malaysia Airlines Flight 17 was shot down, before and after the crash. Read our coverage beginning on page 20, then see some of the images and read more by Paris Bureau Chief Amy Svitak on our On Space blog (ow.ly/zxwAw). AviationWeek.com/OnSpace

UNDISCRIMINATING WEAPON

After reading our analysis on page 23, listen to our latest Check 6 podcast as International Military Editor Bill Sweetman and Executive Editor Jim Asker describe how the Buk-M1 implicated in the MH17 shootdown can be used by minimally trained operators to deliver a lethal attack, absent the safeguards built into other comparable ground-based air defense systems. AviationWeek.com/Podcast

READER COMMENT

Regarding our online coverage of Bombardier's COO being ousted (see page 11), Tuna wrote: "Seems to me that the CSeries was a development disaster well before the engine failure. And obviously also a sales disaster. And the Learjet 85 has also been a development disaster and will certainly be a sales disaster if it ever gets produced and has to compete against the Embraer 500. Bombardier Aviation has some serious problems on its hands." ow.ly/zxymc

Follow Keep up with all the news and blogs from Aviation Week's editors. Follow @AviationWeek or 'like' us at Facebook.com/AvWeek