CESSNA EXCELS WITH NETJETS DEAL ● TRENT FOR A340-600

FLIGHT INTERNATIONAL

18 – 24 JUNE 1997 £2
A Reed Business Publication
Denmark Dkr 31 ● France Fr19
Germany DM 8.50 ● Greece Dra950
Holland Dfl 7.50 ● Italy L5000
Norway Nkr35.00 ● Malta LM1.15
Spain Ptas650 ● USA $4.75

EXCLU DU PRÊT
المكتبة الجامعية
المركز الجامعي

SHOW FIRST NEWS

EJECT!

MARTIN-BAKER MK16A TECHNICAL DESCRIPTION AND CUTAWAY POSTER

Paris '97

25>
9 770015 371105

050-620-32

FLIGHT INTERNATIONAL

FOUNDED 1909

NUMBER 4579 VOLUME 151

HEAD OFFICE

Quadrant House, The Quadrant, Sutton, Surrey SM2 5AS, UK.
Telephone +44 (181) 652 3842; **Fax** +44 (181) 652 3840
e-mail flight.international@rbi.co.uk

Editorial Enquiries +44 (181) 652 3842

Editor In Chief Allan Winn +44 (181) 652 3882
Editor's PA Lisa Jenkins +44 (181) 652 3882
Deputy Editor Forbes Mutch +44 (181) 652 3852
News Editor Andrew Chuter +44 (181) 652 3843
Operations/Safety Editor David Learmount +44 (181) 652 3845
Business Editor Kevin O'Toole +44 (181) 652 3835
Commercial Aviation Editor Max Kingsley-Jones +44 (181) 652 3825
Defence Aviation Editor Douglas Barrie +44 (181) 652 3834
Data Researcher John Christovassilis +44 (181) 652 3847
Spaceflight Correspondent Tim Furniss +44 (1237) 471960
Technical Reporter Ian Sheppard +44 (181) 652 3992

Production Editor Chris Thornton +44 (181) 652 3850
Art Editor Alexis Rendell +44 (181) 652 3828
Layout Sub-Editor Annabel Wells +44 (181) 652 3848
Senior Technical Artist Tim Hall +44 (181) 652 8047
Technical Artist Giuseppe Picarella +44 (181) 652 8054
Editorial Artist Gareth Burgess +44 (181) 652 8043
Photographer Mark Wagner +44 (181) 944 5225
Picture Librarian Kim Hearn +44 (181) 652 3427

Newsletters Editor Emma Kelly +44 (181) 652 3096

EUROPE/MIDDLE EAST

European Editor (Paris) Julian Moxon +33 (1) 40 54 08 62
Fax +33 (1) 47 64 44 28
Munich Correspondent Andrzej Jeziorski +49 (89) 689 1041
Fax +49 (89) 689 1045
Israel Correspondent Arie Egozi +972 (3) 967 1155
Moscow Correspondent Alexander Velovich +7 (095) 393 4717
Fax +7 (095) 393 4717

AMERICAS

Washington Office **Fax** +1 (703) 836 8344
American Editor Graham Warwick +1 (703) 836 3448
Washington Correspondent Ramon Lopez +1 (703) 836 7443
West Coast Correspondent Guy Norris +1 (714) 252 8971
Fax +1 (714) 252 8972

ASIA PACIFIC

Asian Editor (Singapore) Paul Lewis +65 434 3309
Fax +65 338 6171
Australian Correspondent Paul Phelan +61 (70) 532 791
Fax +61 (70) 533 003

READER SERVICES

Subscriptions Karen Parker, *Flight International* Subscriptions, Reed Business Information, PO Box 302, Haywards Heath, West Sussex. RH16 3DH. UK.
Telephone/credit card orders +44 (1444) 445454
Fax +44 (1444) 440619
US subscriptions PO Box 7542, Highlands Ranch, CO 80126-7542 +1-800 (637) 6073
Fax +1-800 (327) 9021
from Canada +303 (470) 4426
Fax +303 (470) 4491
Far East subscriptions Crawford Road, P O Box 698, Singapore 911907 +65 843 2233
Fax +65 747 6550

Newstrade enquiries +44 (171) 261 7704
US Newstrade Enquiries +1 (718) 392 7477

***Flight International* Directories** +44 (1707) 665151
Fax +44 (1707) 660330

Back issues ESCO Business Services +44 (1371) 810433
Recent copies only **Fax** +44 (1371) 811065

Faxback service (touch-tone telephones only) +44 (181) 652 4019

For a full listing of RBI magazines http://www.reedbusiness.com

Qualified Subscription Rates:	1 year	2 year	3 year
Europe	£69	£119	£156
North America	$184	$315	$402
All Other Countries	£78	£137	£177

Only paid subscriptions available. Cheques made payable to *Flight International*.

Distributed by Marketforce

Flight International is a weekly news magazine for professionals working in all sectors of the aerospace industry worldwide, serving all branches of airframe systems, support equipment and component manufacture and all sectors of operation, including air transport, general aviation, defence, spaceflight and regulatory and other authorities.

REED BUSINESS INFORMATION BPA INTERNATIONAL **ISSN 0015-3710**

CONTENTS

Comment 3

Headlines

Airbus/R-R strike Trent deal 4
Jet Airways shareholders take stock
Matra studies European alliances . 5
CAA hurries commercial-singles issue

Paris First News

Cessna wins huge NetJets order ... 6
Honeywell reveals WorldNav system
AVIC lifts aerospace ambitions 10
FAA passes A300F conversion 11
Lockheed Martin chooses HUD for JSF
GE reveals CF6 variant 12
Robin revs up all-wooden President

Air Transport

Lufthansa signs with Air Littoral .. 14
Air Macau is urged to expand and diversify

Virgin Express introduces A320

Clinton names new FAA boss 16
MDC hopes for MD-95 deals 18
Continental goes Boeing-only 20
Russia's Orient and East Line to merge
EuroLOT primed for take-off 21
Air Madeira is ready for transatlantic charters

Business

Germany, UK deny Airbus claims . 22
Bidders named in Sun Air privatisation

Defence

Funding guaranteed for L-159s 24
Taiwan hopes to see more Mirages
France woos UK over engines 26
US Air Force embraces EGWPS ... 27
Boeing tries to slash F-22 costs 28
New gun planned for JSF
Indonesia seeks F-16 alternatives . 32

General Aviation

White Shark snaps up 737B 36
Non-stop helicopter Atlantic crossing fails
Part redesign gets Explorer flying 37
SJ30-2 back in hangar for turbofan update

Spaceflight

Russia launches mystery satellite .. 40
Lockheed and Boeing win Shuttle contracts

Air Transport Intelligence

World's first 24h data service 44

Industry 45

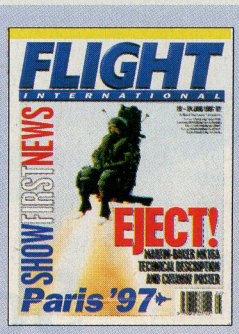
News Analysis

Ready, steady,...wait! 48
Trials and tribulations of the EF2000

Features

India's jet challenger 50
...but Jet Airways takes nothing for granted
Super survivor 52
Super Constellation keeps memories alive

COVER STORY



The Martin-Baker Mk16A ejection seat is the result of over 50 years of experience: full technical description and colour cutaway. 56

Meeting the FANS 61
Satellite-based systems drive civil avionics

People 67

Letters 68

Straight and Level 70

Classified 71

The top international marketplace for aircraft, equipment, tuition and jobs.

NEXT WEEK

Mark Wagner/Flight International

***Flight International* provides the first full report of the Paris air show, compiled on-site by the leading aviation-news team.**

AMR SPLITS REGIONAL BUY ● CASA LAUNCHES C-295

FLIGHT INTERNATIONAL

25 JUNE – 1 JULY 1997 £2
A Reed Business Publication
Denmark Dkr 31 ● France Fr19
Germany DM 8.50 ● Greece Dra950
Holland Dfl 7.50 ● Italy L5000
Norway Nkr35.00 ● Malta LM1.15
Spain Ptas650 ● USA $4.75

SHOW REPORT

Paris '97

26>
9 770015 371105

050-620-32

FLIGHT INTERNATIONAL

FOUNDED 1909

NUMBER 4579 VOLUME 151

HEAD OFFICE
Quadrant House, The Quadrant, Sutton, Surrey SM2 5AS, UK.
Telephone +44 (181) 652 3842; **Fax** +44 (181) 652 3840
e-mail flight.international@rbi.co.uk

Editorial Enquiries +44 (181) 652 3842

Editor In Chief Allan Winn +44 (181) 652 3882
Editor's PA Lisa Jenkins +44 (181) 652 3882
Deputy Editor Forbes Mutch +44 (181) 652 3852
News Editor Andrew Chuter +44 (181) 652 3843
Operations/Safety Editor David Learmount +44 (181) 652 3845
Business Editor Kevin O'Toole +44 (181) 652 3835
Commercial Aviation Editor Max Kingsley-Jones +44 (181) 652 3825
Defence Aviation Editor Douglas Barrie +44 (181) 652 3834
Data Researcher John Christovassilis +44 (181) 652 3847
Spaceflight Correspondent Tim Furniss +44 (1237) 471960
Technical Reporter Ian Sheppard +44 (181) 652 3990

Production Editor Chris Thornton +44 (181) 652 3850
Art Editor Alexis Rendell +44 (181) 652 3828
Layout Sub-Editor Annabel Wells +44 (181) 652 3848
Senior Technical Artist Tim Hall +44 (181) 652 8047
Technical Artist Giuseppe Picarella +44 (181) 652 8054
Editorial Artist Gareth Burgess +44 (181) 652 8043
Photographer Mark Wagner +44 (181) 944 5225
Picture Librarian Kim Hearn +44 (181) 652 3427

Newsletters Editor Emma Kelly +44 (181) 652 3096

EUROPE/MIDDLE EAST
European Editor (Paris) Julian Moxon +33 (1) 40 54 08 62
Fax +33 (1) 47 64 44 28
Munich Correspondent Andrzej Jeziorski +49 (89) 689 1041
Fax +49 (89) 689 1045
Israel Correspondent Arie Egozi +972 (3) 967 1155
Moscow Correspondent Alexander Velovich +7 (095) 393 4717
Fax +7 (095) 393 4717

AMERICAS
Washington Office **Fax** +1 (703) 836 8344
American Editor Graham Warwick +1 (703) 836 3448
Washington Correspondent Ramon Lopez +1 (703) 836 7443
West Coast Correspondent Guy Norris +1 (714) 252 8971
Fax +1 (714) 252 8972

ASIA PACIFIC
Asian Editor (Singapore) Paul Lewis +65 434 3309
Fax +65 338 6171
Australian Correspondent Paul Phelan +61 (70) 532 791
Fax +61 (70) 533 003

READER SERVICES
Subscriptions Karen Parker, *Flight International* Subscriptions, Reed Business Information, PO Box 302, Haywards Heath, West Sussex. RH16 3DH. UK.
Telephone/credit card orders +44 (1444) 445454
Fax +44 (1444) 440619

US subscriptions PO Box 7542, Highlands Ranch, CO 80126-7542 +1-800 (637) 6073
Fax +1-800 (327) 9021
from Canada +303 (470) 4426
Fax +303 (470) 4491

Far East subscriptions Crawford Road, P O Box 698, Singapore 911907 +65 843 2233
Fax +65 747 6550

Newstrade enquiries +44 (171) 261 7704
US Newstrade Enquiries +1 (718) 392 7477

***Flight International* Directories** +44 (1707) 665151
Fax +44 (1707) 660330

Back issues ESCO Business Services +44 (1371) 810433
Recent copies only **Fax** +44 (1371) 811065

Faxback service (touch-tone telephones only) +44 (181) 652 4019

For a full listing of RBI magazines http://www.reedbusiness.com

Qualified Subscription Rates:	1 year	2 year	3 year
Europe	£69	£119	£156
North America	$184	$315	$402
All Other Countries	£78	£137	£177

Only paid subscriptions available. Cheques made payable to *Flight International*.

Distributed by Marketforce

Flight International is a weekly news magazine for professionals working in all sectors of the aerospace industry worldwide, serving all branches of airframe systems, support equipment and component manufacture and all sectors of operation, including air transport, general aviation, defence, spaceflight and regulatory and other authorities.

REED BUSINESS INFORMATION

BPA INTERNATIONAL

ISSN 0015-3710

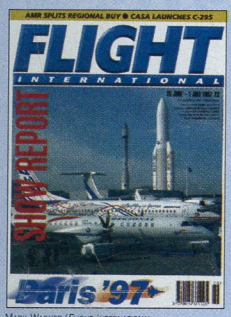
CONTENTS

Comment 5

Headlines
GE and PW in new alliance talks..... 6
Engine FOD postpones F-22's first flight
BAe joins Lockheed Martin JSF bid 7
USA defuses Czech F-16 "bias" gaffe

Paris Report

COVER STORY



MARK WAGNER/FLIGHT INTERNATIONAL

The *Flight International* news team reports on the 1997 Paris air show and the *Flight International* Aerospace Industry Awards.

Embraer/AI(R) in regional talks... 8
Germans push fighter demonstrator
Lockheed declines A3XX stake 9
Snecma/R-R talk about Trent 500 workshare
AMR Eagle splits regional order .. 10
Continental keen on smaller regional jets
Allied focuses on centreline engine 12
Fairchild Dornier secures first 328JET orders
Eurocopter wins Dauphin orders 13
Airbus wrangle rumbles on 14
Lift-off for C-27J
Eurofighter uncertainty continues 16
Corporate battle for twinjets
CASA will stretch CN-235 17
MTU plans military-engine company
Germans agree to FLA RFP..... 18
Gulfstream venture stretches to Middle East
Bombardier aims at middle market 20
Thrust-vector EJ2000 testing set for 1998
BMW R-R will power Tu-334s 21
Sabena selects Avro/Airbus mix.... 22
Thomson/Siemens link on ATM venture
Lockheed wraps up RD-108 deal 24
Bell Boeing secures civil tilt-rotor orders
Airbus defers A340-500/600 26
Daewoo optimistic of 1998 KTX-1 go-ahead
Saab looks to future strategy..... 28
IAR unveils SOCAT Puma upgrade
Dassault targets 100 business sales 29
Aerospace Industry Awards..... 30
Every one a winner

Air Transport
SIA studies alliance with Ansett 32
Europe could overcome cargo singles ban
Canada hits back on US charges..... 34
Antonov rolls out first An-140 prototype

Defence
Pakistan repeats threat to sue on F-16s 35
Lockheed Martin first to complete JSF review
USN F-18E/F plans get a boost..... 36
Aero Vodochody unwraps L-159 prototype

Business
Hainan Airlines plans to go public 38
Atlantic Coast raises cash for regional jets

General Aviation
Century changes single-jet design 39
Stage III redesigns GII/III hushkit

Spaceflight
Engine change delays Ariane 5 40
China launches Feng Yun 2 weather satellite

Industry 44

Features
Charter changes 45
Canadian carriers target tourist trade
Grand scale 47
Hughes introduces its HISAR surveillance system
Small success 49
SSTL keeps ahead in small-satellite market

People 51

Letters 52

Straight and Level 55

Classified 56
The top international marketplace for aircraft, equipment, tuition and jobs.

NEXT WEEK

MARK WAGNER/FLIGHT INTERNATIONAL

***Flight International* casts a critical eye at Le Bourget, reviewing the major issues that have emerged from the Paris air show. At the same time, the magazine looks at aviation in the Czech Republic.**