

COMMISSION
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THE EUROPEAN AEROSPACE INDUSTRY

Trading Position and Figures

1990

COMMISSION
OF THE EUROPEAN
COMMUNITIES

Directorate-General
Internal Market and Industrial Affairs

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THE EUROPEAN AEROSPACE INDUSTRY TRADING POSITION AND FIGURES

(Commission Staff Working Paper)

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P R E F A C E

We have the pleasure to present you with the 1990 edition of the document

"The European aerospace industry - Trading position and figures".

This document is based on the most relevant statistics available to the Commission of the European Communities on the world aerospace industry.

The Directorate-General for the **INTERNAL MARKET AND INDUSTRIAL AFFAIRS** has been compiling and collating these statistics since 1972.

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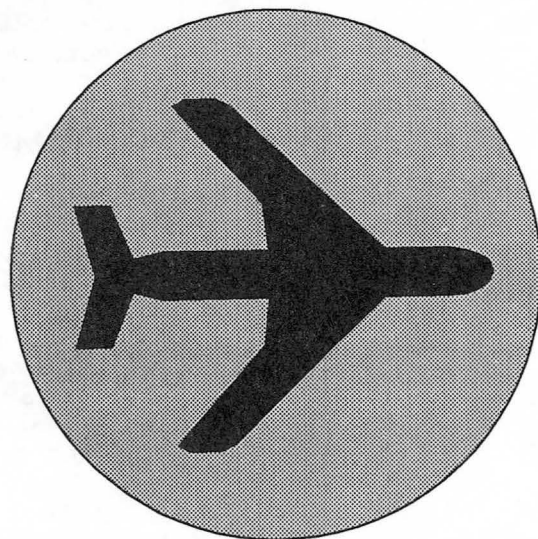
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CIVIL AIR TRAFFIC



C H A P T E R

1

C I V I L A I R T R A F F I C

The data referring to the world civil air traffic correspond to scheduled operations of airlines of I.C.A.O. States and are published in the I.C.A.O. Bulletin.

The data referring to the scheduled operations of A.E.A. member airlines, according to the A.E.A. Annual Report, are broken down between the following groups of routes:

■ domestic routes

routes commencing and terminating within the national frontiers of the A.E.A. reporting carrier's country of registration

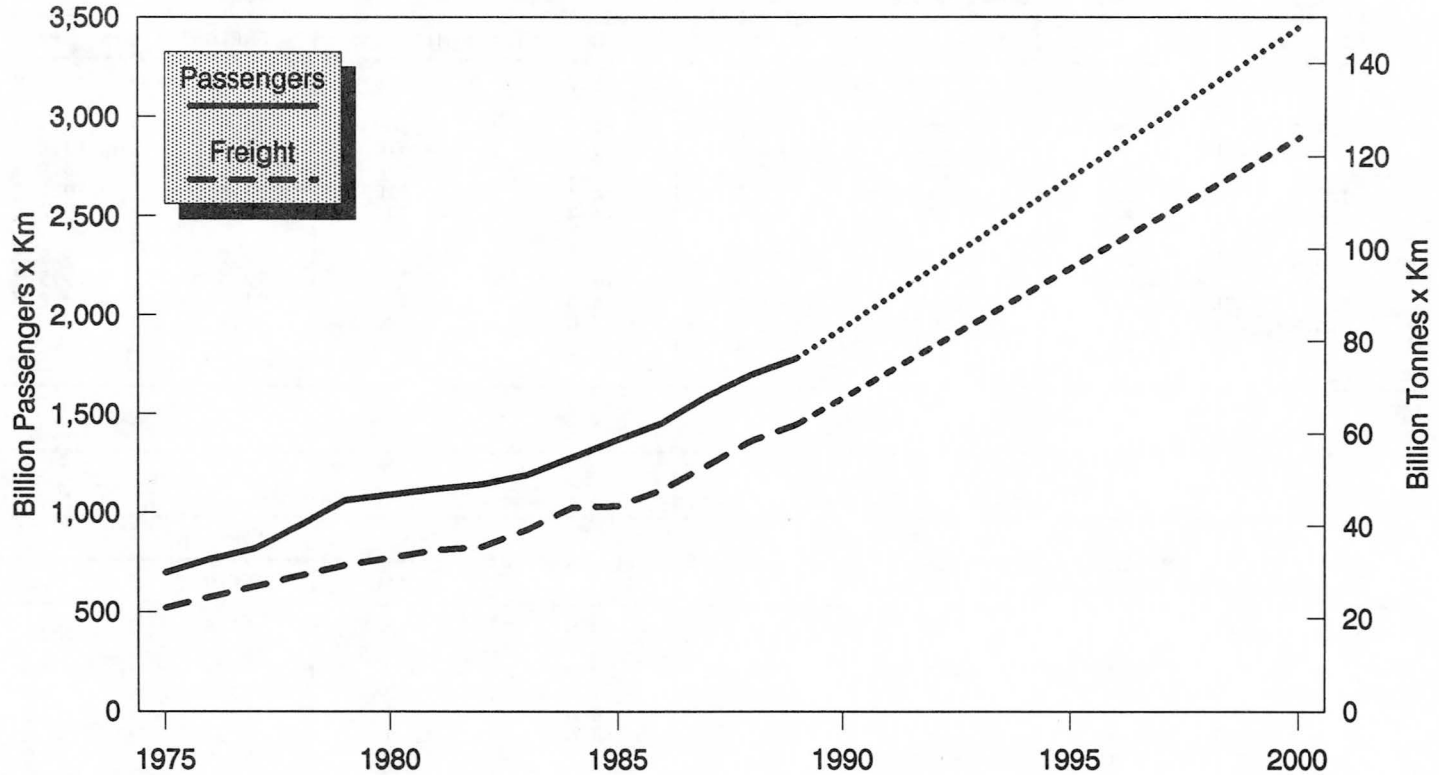
■ International Short/medium Haul

international routes originating and terminating within Europe (including Turkey and USSR up to 55°E), Azores, Canary Islands, Madeira, Cyprus, North Africa (Algeria, Egypt, Libya, Morocco, Sudan and Tunisia) and the Middle East (Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates, Yemen and the Democratic Republic of Yemen).

■ Long-Haul

other international routes

World Scheduled Air Traffic



Source: ICAO

WORLD SCHEDULED AIR TRAFFIC (INCLUDING USSR)

	PASSENGERS				FREIGHT			
	CARRIED PASSENGERS (BILLIONS)	REVENUE PASSENGERS/KM (BILLIONS)	AVAILABLE SEATS-KM (BILLIONS)	LOAD FACTOR	TONS CARRIED (MILLIONS)	TONS/KM		
						MIO TONS	FREIGHT	MAIL
1975	0.534	697	1,179	59 %	8.7	22,270	87.0 %	13.0 %
1980	0.748	1,089	1,724	63 %	11.1	33,060	88.9 %	11.1 %
1981	0.752	1,119	1,757	64 %	10.9	34,670	89.1 %	11.0 %
1982	0.766	1,142	1,795	64 %	11.6	35,410	89.1 %	10.9 %
1983	0.798	1,190	1,852	64 %	12.3	39,110	89.8 %	10.2 %
1984	0.847	1,277	1,971	65 %	13.4	43,940	90.2 %	9.8 %
1985	0.898	1,366	2,079	66 %	13.7	44,210	90.0 %	9.9 %
1986	0.958	1,451	2,233	65 %	14.7	47,710	90.5 %	9.5 %
1987	1.025	1,587	2,365	67 %	16.0	52,950	91.2 %	8.8 %
1988	1.072	1,696	2,502	68 %	17.4	58,380	91.8 %	8.2 %
1989	1.116	1,781	2,619	68 %	-	61,946	-	-

ANNUAL GROWTH RATE (IN %)

	PASSENGERS				FREIGHT			
	CARRIED PASSENGERS	REVENUE PASSENGERS/KM	AVAILABLE SEATS-KM		TONS CARRIED	TONS/KM		
						TOTAL	FREIGHT	MAIL
1975	3.7	6.3	6.4	-	0.0	1.7	1.8	0.7
1980	0.8	2.7	7.3	-	0.9	5.2	4.9	7.6
1981	0.5	2.8	1.9	-	1.8	4.9	5.1	3.3
1982	1.9	2.1	2.2	-	6.4	2.1	2.1	1.8
1983	4.2	4.2	3.2	-	6.0	10.4	11.3	3.4
1984	6.1	7.3	6.4	-	8.9	12.3	12.9	7.5
1985	6.0	7.0	5.5	-	2.2	0.6	0.4	2.1
1986	6.7	6.2	7.4	-	7.3	7.9	8.5	3.2
1987	7.0	9.4	5.9	-	8.8	11.0	11.8	3.1
1988	4.6	6.9	5.8	-	8.6	10.3	11.0	2.4
1989	4.1	5.0	4.7	-	-	6.1	-	-

EC - DG III / SOURCE : ICAO

BREAKDOWN OF WORLD SCHEDULED AIR TRAFFIC

REVENUE PASSENGERS/KM (BILLION)

	TOTAL	BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)			
		AEA	USA	USSR	REST OF THE WORLD
1975	697	16.2	37.6	17.6	28.6
1980	1,089	14.9	37.6	14.7	32.8
1981	1,119	15.1	35.4	15.3	34.2
1982	1,142	14.9	35.8	15.1	34.2
1983	1,190	14.2	37.3	14.8	33.6
1984	1,277	14.1	37.6	14.4	34.0
1985	1,366	14.1	38.9	13.7	33.2
1986	1,451	13.4	40.2	13.4	33.0
1987	1,587	13.8	40.5	12.6	33.1
1988	1,696	13.7	39.8	12.6	34.0

REVENUE PASSENGERS/KM (ANNUAL GROWTH RATE - AS %)

	TOTAL	AEA	USA	USSR	REST OF THE WORLD
1975	6.3	5.3	0.1	12.7	12.2
1980	2.7	1.9	0.6	6.4	5.6
1981	2.8	4.2	3.2	6.9	7.1
1982	2.1	0.4	3.4	0.5	2.1
1983	4.2	0.3	8.5	2.4	2.4
1984	7.3	6.6	7.9	4.0	8.4
1985	7.0	6.8	10.9	2.3	4.7
1986	6.2	0.8	9.7	3.6	5.5
1987	9.4	13.0	10.0	3.0	9.7
1988	6.9	5.8	5.0	6.5	9.7

AEA AIRLINES AIR TRAFFIC

	REVENUE PASSENGERS/KM (BILLIONS)			AVAILABLE SEATS-KM (BILLIONS)			LOAD FACTOR (AS %)		
	DOMESTIC	SHORT AND MEDIUM HAUL	LONG-HAUL	DOMESTIC	SHORT AND MEDIUM HAUL	LONG HAUL	DOMESTIC	SHORT AND MEDIUM HAUL	LONG HAUL
1970	-	22.0	44.6	-	41.3	84.5	-	53.3	52.8
1975	-	34.4	78.7	-	62.6	138.7	-	55.0	56.7
1980	19.3	48.1	114.2	30.2	86.3	185.1	63.9	55.8	61.7
1981	19.8	49.4	119.7	29.9	84.9	185.3	66.2	58.2	64.6
1982	20.7	49.2	120.6	31.3	85.7	185.6	66.3	57.4	64.9
1983	21.7	49.1	120.1	33.0	85.6	184.2	65.9	57.4	65.2
1984	22.3	53.4	127.1	32.8	89.5	187.2	67.8	59.6	67.9
1985	22.9	57.2	135.5	34.0	93.7	199.2	67.2	61.1	68.0
1986	23.8	57.0	137.3	35.3	96.8	208.3	67.5	58.8	65.9
1987	26.5	63.9	155.7	37.4	101.6	221.9	70.9	62.9	70.1
1988	28.2	68.2	164.2	41.0	109.7	234.4	68.8	62.2	70.0

ANNUAL GROWTH RATE (%)

	REVENUE PASSENGERS/KM			AVAILABLE SEATS-KM		
	DOMESTIC	SHORT AND MEDIUM HAUL	LONG HAUL	DOMESTIC	SHORT AND MEDIUM HAUL	LONG HAUL
1970						
1975	-	8.4	4.0	-	5.6	3.7
1980	-2.3	-3.3	4.3	1.9	2.6	9.4
1981	2.6	2.7	4.8	-1.0	-1.7	0.1
1982	4.5	-0.5	0.7	4.4	1.0	0.2
1983	4.9	-0.2	-0.4	5.5	-0.1	-0.8
1984	2.4	8.6	5.8	-0.6	4.5	1.7
1985	2.8	7.3	6.6	3.8	4.8	6.4
1986	4.2	-0.5	1.3	3.6	3.3	4.5
1987	11.1	12.2	13.4	5.9	4.9	6.6
1988	6.6	6.8	5.5	9.8	8.0	5.6

EC - DG III / SOURCE: AEA

COMMERCIAL TRANSPORT AIRCRAFT



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C I V I L T R A N S P O R T A I R C R A F T

The figures relating to the civil jet aircraft orders and deliveries and backlogs (aircraft ordered but not yet delivered) (in units) are provided by AIRBUS INDUSTRIE.

The figures relating to the civil transport aircraft fleet and deliveries are provided by AEROSPATIALE, and cover almost all the civil transport aircraft produced in the western world. The origin of these statistics is the "Etat des flottes commerciales", database on civil transport aircraft of more than 18 seats.

The statistics relate to civil transport aircraft. Therefore, civil transport aircraft used by public authorities are included, while such aircraft may also be included in the statistics relating to military aircraft which are given in Chapter 4.

The civil transport aircraft breakdown is carried out using the following criteria:

- aircraft category
 - short-haul turboprop
 - short- and medium-haul jet
 - long-haul jet

- design origin: Europe, USA and rest of the world

The geographical areas are defined as follows:

- EC
- Other Europe: Austria, Finland, German Democratic Republic, Gibraltar, Hungary, Iceland, Liechtenstein, Malta, Monaco, Norway, Poland, Romania, Sweden, Switzerland and Yugoslavia
- USA
- Rest of the world

For each category of civil transport aircraft, the tables show aircraft in service at 31.12 and aircraft deliveries as follows:

- the number of aircraft,
- the number of seats (aircraft x capacity),
- the present value which is estimated using a linear depreciation on 20 years and the following value per seat (in 1988 \$):
 - > \$170,000 for the short-haul turboprops,
 - > \$210,000 for the short- and medium-haul jets,
 - > \$255,000 for the long-haul jets.

C I V I L T R A N S P O R T A I R C R A F T

For each category of civil transport aircraft, the following tables are given:

- absolute value,
- geographical breakdown of total aircraft (as % of world total),
- market share of EC-built aircraft (as % of total - in each geographical area),
- geographical breakdown of EC-built aircraft (as % of total EC-built aircraft).

A list of civil transport aircraft and their categories is given hereunder.

SHORT-HAUL CIVIL TRANSPORT AIRCRAFT

MODEL	DESIGN	SEATS
ARGOSY	Europe	80
ATR 42	Europe	46
ATR 72	Europe	66
BAE ATP	Europe	64
BANDEIRANTE	Other	17
BEECH 1900	USA	19

SHORT-HAUL CIVIL TRANSPORT AIRCRAFT

MODEL	DESIGN	SEATS
BRASILIA	Other	30
CASA NC 212	Europe	19
CASA 212	Europe	19
CN 235	Europe	38
CV 580	USA	51
CV 600	USA	51
CV 640	USA	51
DHC-6	Other	18
DHC-7	Other	50
DHC-8	Other	36
DO 228	Europe	19
FH 227	Europe	46
FH 27	Europe	46
FOKKER 50	Europe	50
F 27	Europe	46
HERALD	Europe	50
HS 748	Europe	46
JETSTREAM	Europe	19
METRO II	USA	19
METRO III	USA	19
NORD 262	Europe	27
SD 330	Europe	30
SD 360	Europe	36
SF 340	Europe	35
VFW 614	Europe	36
VISCOUNT	Europe	69
YS 11A	Other	61

C I V I L T R A N S P O R T A I R C R A F T

SHORT/MEDIUM-HAUL CIVIL TRANSPORT AIRCRAFT

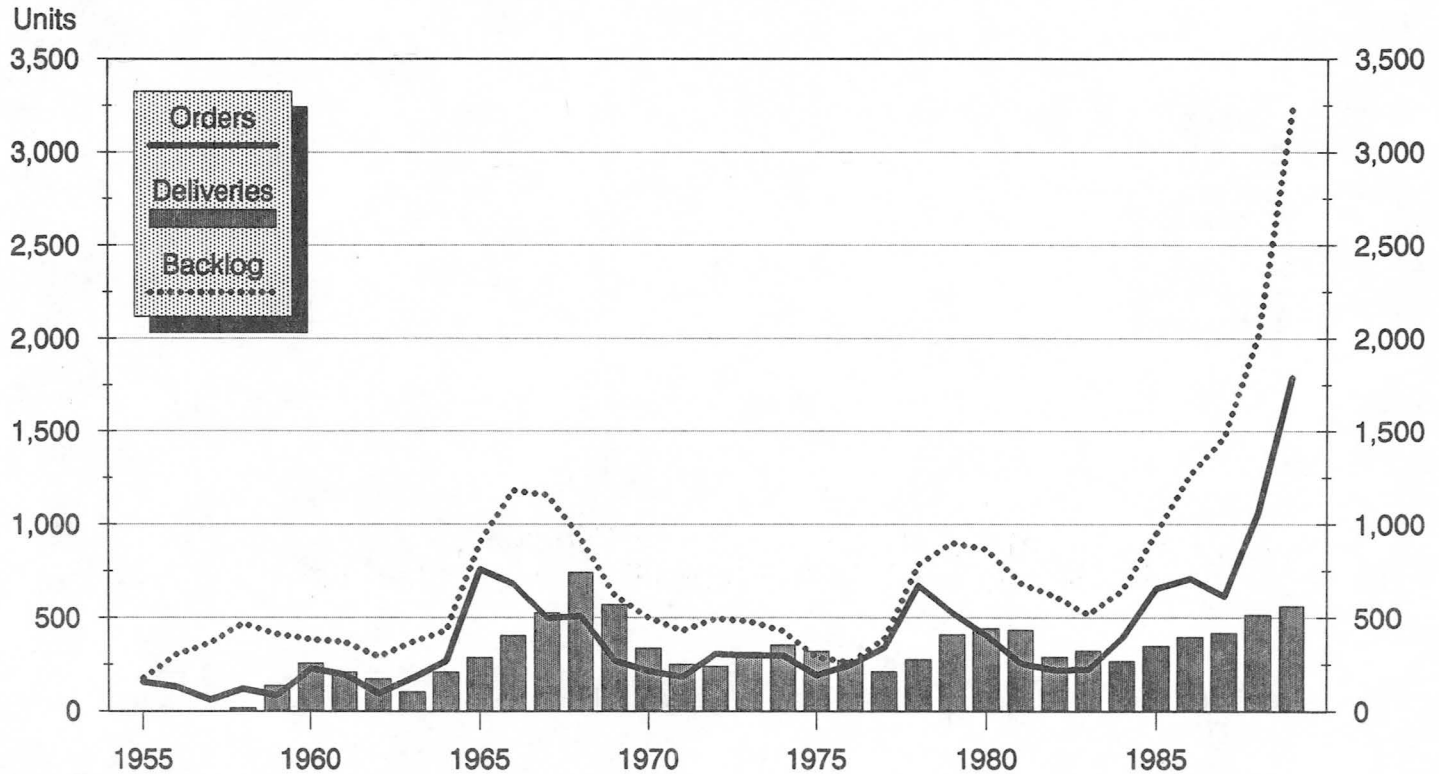
MODEL	DESIGN	SEATS
A 300	Europe	260
A 310	Europe	216
A 320	Europe	150
A 330	Europe	328
BAC 111	Europe	92
BAE 146	Europe	95
BELFAST	Europe	200
BRITANNIA	Europe	200
B 720	USA	150
B 727	USA	151
B 737	USA	115
B 737-300	USA	125
B 747-SR	USA	530
B 757	USA	189
B 767	USA	211
CARAVELLE	Europe	100
CL 44	Europe	160
CV 880	USA	120
CV 990	USA	120
DC 10-10	USA	259
DC 10-10 CF	USA	259
DC 10-15	USA	259
DC 9	USA	110
ELECTRA	USA	78
FOKKER 100	Europe	100
F 28	Europe	76
GULFSTREAM	USA	37
HERCULES	Europe	120

MD 80	USA	144
MERCURE	Europe	150
TRANSALL	Europe	120
TRIDENT	Europe	118
TRISTAR L1011-1	USA	288
TRISTAR L1011-100	USA	288
VANGUARD	Europe	140

LONG-HAUL CIVIL TRANSPORT AIRCRAFT

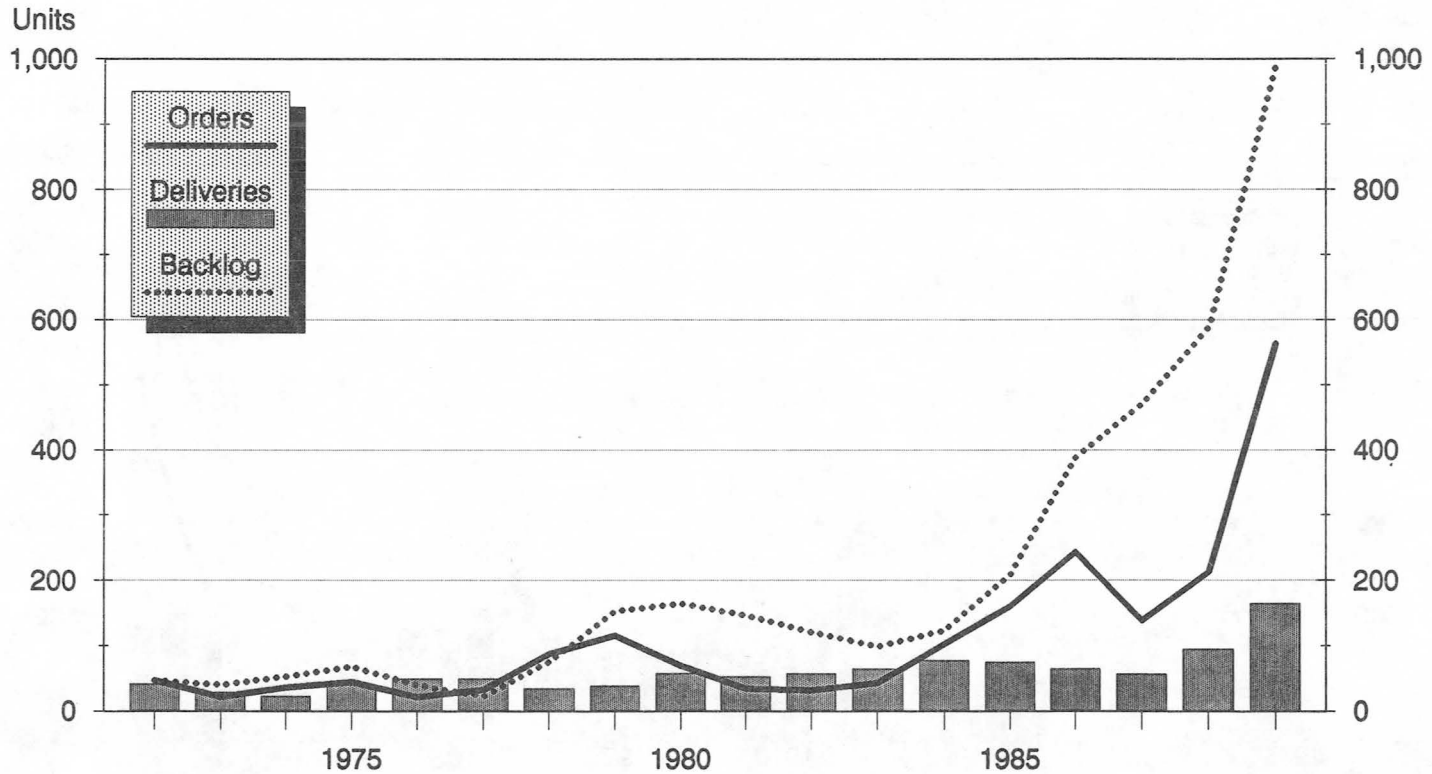
MODEL	DESIGN	SEATS
A 340	Europe	295
B 707	USA	155
B 747 SP	USA	267
B 747	USA	407
B 747 300	USA	440
COMET	Europe	80
CONCORDE	Europe	100
DC 10-30	USA	259
DC 10-30CF	USA	259
DC 10-30ER	USA	259
DC 10-30F	USA	259
DC 10-40	USA	259
DC 8	USA	190
MD 11	USA	287
TRISTAR L1011-200	USA	250
TRISTAR L1011-50	USA	250
TRISTAR L1011-500	USA	250
VC 10	Europe	120
VC 10 SUPER	Europe	120

Civil Jet Aircraft World Market



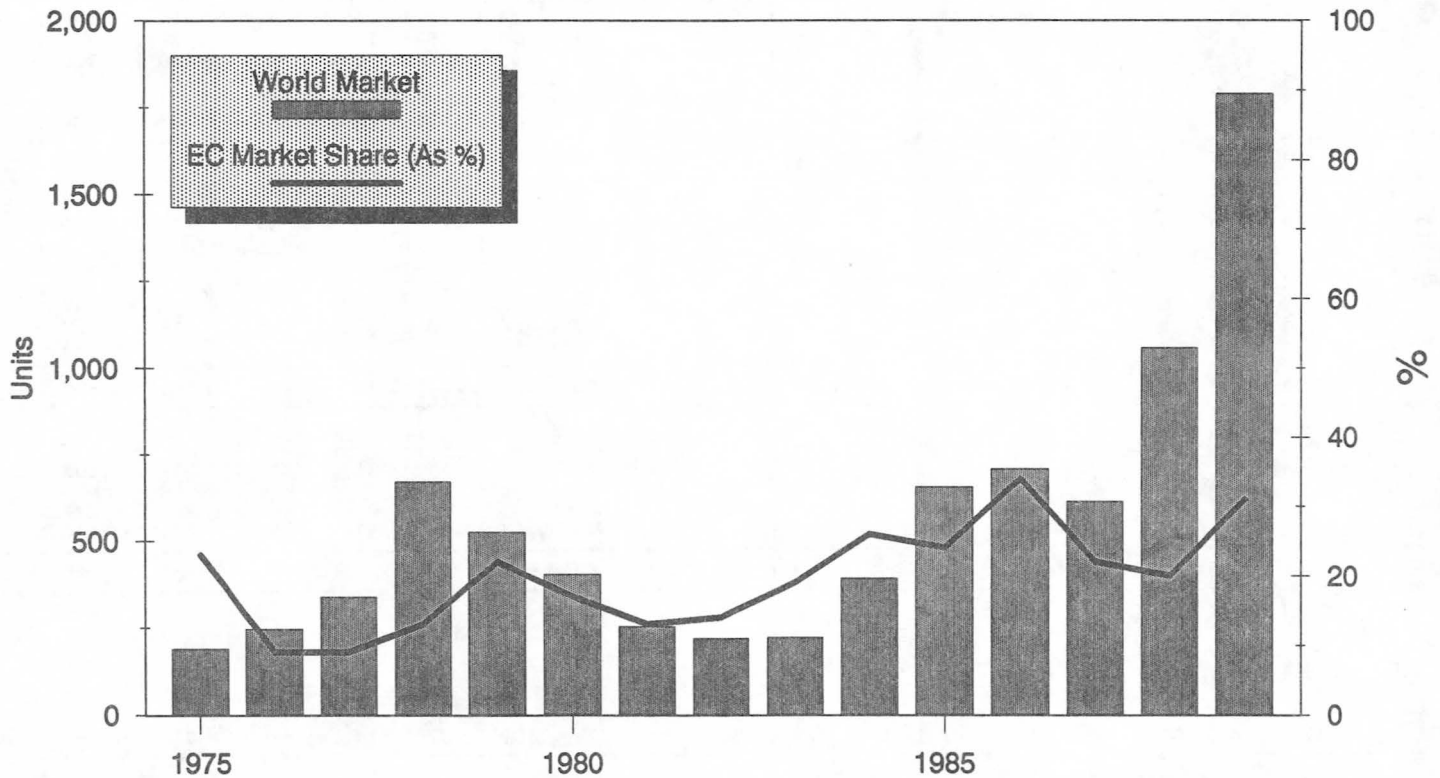
Source: AIRBUS

EC-Designed Civil Jet Aircraft World Market



Source: AIRBUS

Civil Jet Aircraft Orders



Source: AIRBUS

CIVIL AIRCRAFT ORDERS (UNITS)

	BEFORE 1975	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1975- 1989	GRAND TOTAL
A-300	17	15	1	20	69	64	36	15	3		11	24	7	29	21	54	369	386
A-310						37	10	4	2	10	12	35	19	27	22	33	211	211
A-320											51	39	146	58	116	110	520	520
A-321																20	20	20
A-330															3	107	110	110
A-340															3	81	84	84
AIRBUS	17	15	1	20	69	101	46	19	5	10	74	98	172	114	165	405	1,314	1,331
BAC 111	215	5	2		5	3					2						17	232
BAE 146								4	4	24	9	16	21	24	40	39	181	181
TRIDENT	117																	117
MERCURE	10									1								11
CONCORDE	9					1	3	1										14
F. 28	82	22	12	12	13	10	20	10	22	7	9	20	2				159	241
F. 100											8	26	48		8	119	209	209
VFW 614	2	2	6														8	10
EUROPE	452	44	21	32	87	115	69	34	31	42	102	160	243	138	213	563	1,894	2,346
B-707	749	4	4	4		1			1								14	763
B-727	1,194	50	113	133	125	98	68	38	11	1							637	1,831
B-737	428	35	39	37	145	74	98	122	72	64	130	282	211	183	344	467	2,303	2,731
B-747	281	20	14	42	76	75	49	23	14	24	21	38	81	76	49	68	670	951
B-757					38		64	3	2	26	2	45	13	46	161	227	627	627
B-767					66	47	13	7	2	16	15	21	23	57	82	125	474	474
BOEING	2,652	109	170	216	450	295	292	193	102	131	168	386	328	362	636	887	4,725	7,377
DC-9	823	27	25	28	39	26	6	2									153	976
MD-80				23	27	22	12	16	86	42	110	102	106	78	156	234	1,014	1,014
MD-87											6	4	15	14	27	34	100	100
DC-10	216	9	16	34	43	34	11	3		2	6	3	5	2	2		170	386
MD-11													11	20	24	71	126	126
MC DD	1,039	36	41	85	109	82	29	21	86	44	122	109	137	114	209	339	1,563	2,602
L. 1011	148		14	5	25	33	14	5		5							101	249
TOTAL	4,291	189	246	338	671	525	404	253	219	222	392	655	708	614	1,058	1,789	8,283	12,574

EC - DG III / SOURCE: AIRBUS

CIVIL AIRCRAFT ORDERS (UNITS)

MARKET SHARE OF EC BUILT AIRCRAFT (AS % OF WORLD TOTAL)

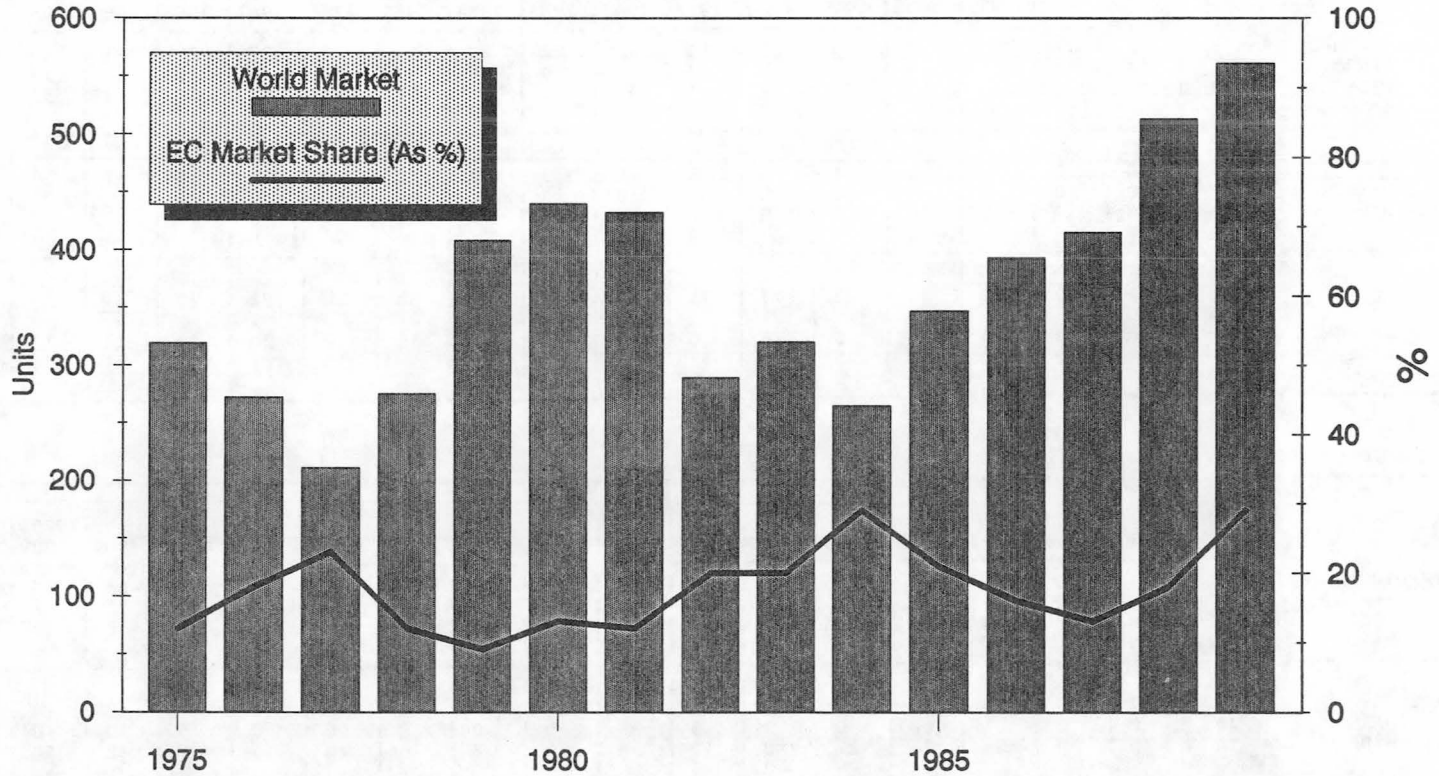
	BEFORE 1975	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1975- 1989	GRAND TOTAL
SHORT/MEDIUM HAUL	15	28	11	13	17	30	20	15	15	22	28	26	40	27	21	31	25	22
... NARROW	15	21	10	5	5	6	7	7	13	19	24	19	39	20	19	23	19	17
... WIDE	100	100	100	100	51	68	78	73	71	38	61	74	53	50	36	61	59	60
LONG HAUL	1	0	0	0	0	1	4	3	0	0	0	0	0	0	4	37	8	4
... NARROW	1	0	0	0	-	50	100	100	0	-	-	-	-	-	-	-	-	26
... WIDE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	37	7	5
TOTAL	11	23	9	9	13	22	17	13	14	19	26	24	34	22	20	31	23	19
... NARROW	12	20	10	5	5	6	8	8	13	19	24	19	39	20	19	23	19	16
... WIDE	3	34	2	20	25	35	35	33	24	18	35	49	18	27	24	51	33	27

BREAKDOWN INTO CATEGORIES (AS % OF WORLD TOTAL)

	BEFORE 1975	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1975- 1989	GRAND TOTAL
SHORT/MEDIUM HAUL	67	83	80	75	79	73	81	87	93	86	93	94	86	84	93	88	86	80
... NARROW	67	75	80	69	58	44	66	77	90	74	83	82	79	66	81	70	72	70
... WIDE	0	8	0	6	20	28	15	10	3	12	10	12	7	18	12	18	14	9
LONG HAUL	33	17	20	25	21	27	19	13	7	14	7	6	14	16	7	12	14	20
... NARROW	18	2	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	6
... WIDE	15	15	18	24	21	27	18	12	6	14	7	6	14	16	7	12	14	14
TOTAL	85	77	82	70	58	45	67	77	90	74	83	82	79	66	81	70	72	76
... NARROW	15	23	18	30	42	55	33	23	10	26	17	18	21	34	19	30	28	24

EC - DG III / SOURCE: AIRBUS

Civil Jet Aircraft Deliveries



Source: AIRBUS

CIVIL AIRCRAFT DELIVERIES (UNITS)

	BEFORE 1975	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1975- 1989	GRAND TOTAL
A-300	5	9	13	16	16	25	37	37	46	19	19	16	11	10	17	24	315	320
A-310										17	29	26	19	21	28	23	163	163
A-320															16	58	74	74
A-321																		
A-330																		
A-340																		
AIRBUS	5	9	13	16	16	25	37	37	46	36	48	42	30	31	61	105	552	557
BAC 111	213	2		6	3		3	2	1		1		1				19	232
BAE 146										10	11	18	22	23	22	35	141	141
TRIDENT	91	6	9	7	4												26	117
MERCURE	10											1					1	11
CONCORDE		1	6	2		1	3	1									14	14
F. 28	71	20	17	13	11	12	14	12	10	18	17	13	11	2			170	241
F. 100															11	24	35	35
VFW 614		1	4	5													10	10
EUROPE	390	39	49	49	34	38	57	52	57	64	77	74	64	56	94	164	968	1,358
B-707	739	7	9	3	3	1			1								24	763
B-727	1,088	91	61	67	118	136	131	94	26	11	8						743	1,831
B-737	389	51	41	25	40	77	92	108	95	82	67	115	141	161	165	146	1,406	1,795
B-747	247	21	27	20	32	67	73	53	25	23	16	24	35	23	24	45	508	755
B-757									2	25	18	36	35	40	48	50	254	254
B-767									20	55	29	25	27	37	53	37	283	283
BOEING	2,463	170	138	115	193	281	296	255	169	196	138	200	238	261	290	278	3,218	5,681
DC-9	757	42	50	22	22	39	18	16	10								219	976
MD-80							5	62	34	50	44	71	86	92	107	103	654	654
MD-87														3	14	15	32	32
DC-10	169	43	19	14	18	36	40	19	5	4	2		5	3	8	1	217	386
MD-11																		
MC DD	926	85	69	36	40	75	63	97	49	54	46	71	91	98	129	119	1,122	2,048
L. 1011	97	25	16	11	8	14	24	28	14	6	4	2					152	249
TOTAL	3,876	319	272	211	275	408	440	432	289	320	265	347	393	415	513	561	5,460	9,336

EC - DG III / SOURCE: AIRBUS

CIVIL AIRCRAFT DELIVERIES (UNITS)

MARKET SHARE OF EC BUILT AIRCRAFT (AS % OF WORLD TOTAL)

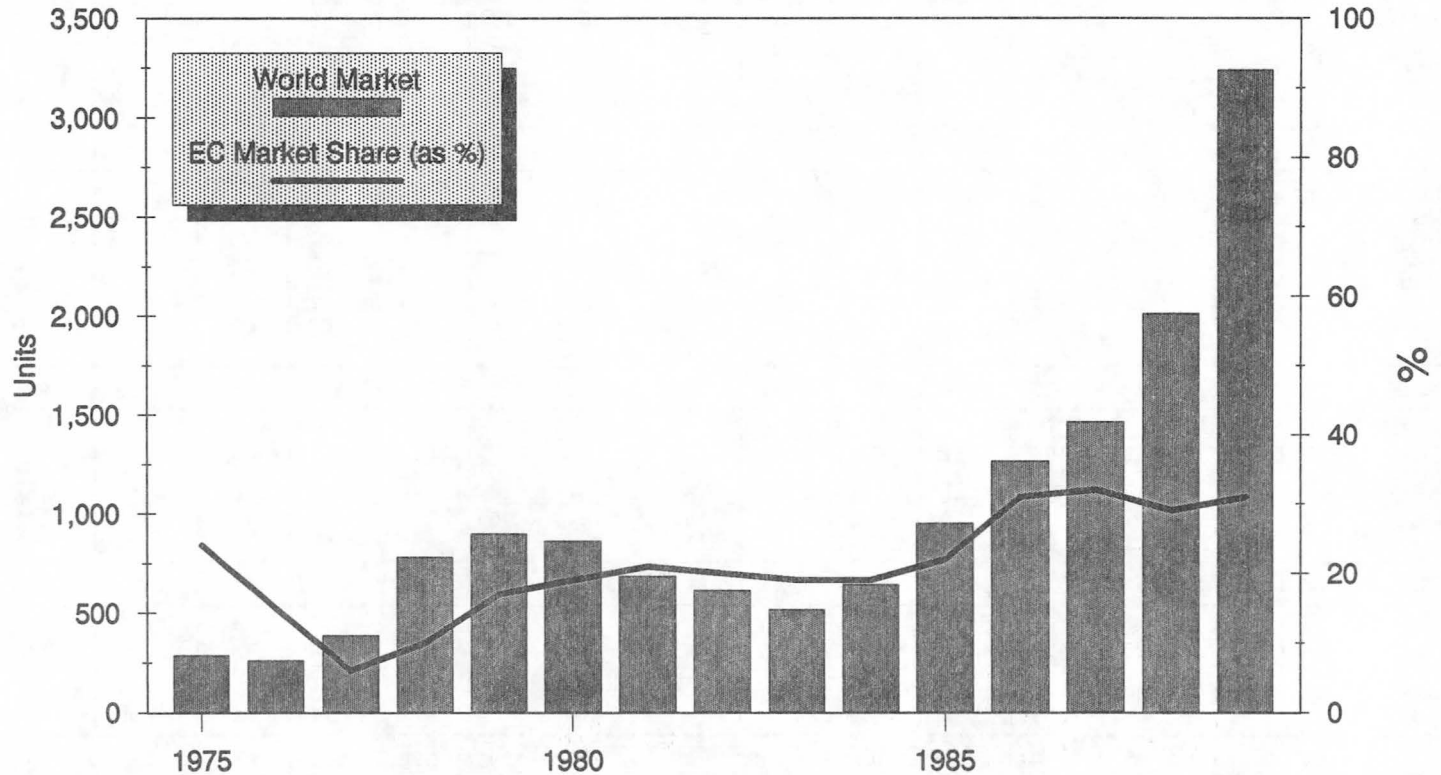
	BEFORE 1975	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1975- 1989	GRAND TOTAL
SHORT/MEDIUM HAUL	15	17	22	29	16	13	18	15	23	22	32	23	18	14	20	32	21	19
... NARROW	15	14	16	21	9	5	6	5	6	14	17	13	11	8	13	27	13	13
... WIDE	100	100	100	100	100	100	100	100	70	40	62	63	53	46	46	56	63	63
LONG HAUL	0	1	8	4	0	1	2	1	0	0	0	0	0	0	0	0	2	1
... NARROW	0	13	40	40	0	50	100	100	0	-	-	-	-	-	-	-	37	2
... WIDE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10	12	18	23	12	9	13	12	20	20	29	21	16	13	18	29	18	15
... NARROW	11	14	18	22	9	5	8	5	6	14	17	13	11	8	13	27	13	12
... WIDE	1	9	17	26	22	18	21	27	42	29	48	45	31	33	35	36	29	22

BREAKDOWN INTO CATEGORIES (AS % OF WORLD TOTAL)

	BEFORE 1975	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1975- 1989	GRAND TOTAL
SHORT/MEDIUM HAUL	68	70	72	76	78	71	68	77	84	90	92	93	90	94	94	92	83	77
... NARROW	68	67	67	69	72	65	60	68	62	61	63	73	75	77	75	77	69	69
... WIDE	0	3	5	8	6	6	8	9	23	28	29	19	15	16	19	15	14	8
LONG HAUL	32	30	28	24	22	29	32	23	16	10	8	7	10	6	6	8	17	23
... NARROW	19	3	6	2	1	0	1	0	0	0	0	0	0	0	0	0	1	8
... WIDE	13	28	23	21	21	29	31	23	15	10	8	7	10	6	6	8	16	15
TOTAL																		
... NARROW	87	69	72	71	73	65	60	68	62	61	63	73	75	77	75	77	70	77
... WIDE	13	31	28	29	27	35	40	32	38	39	37	27	25	23	25	23	30	23

EC - DG III / SOURCE: AIRBUS

Civil Jet Aircraft Backlog



Source: AIRBUS

CIVIL AIRCRAFT BACKLOG (UNITS)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
A-300	18	6	10	63	102	101	79	36	17	9	17	13	32	36	66
A-310					37	47	51	53	46	29	38	38	44	38	48
A-320										51	90	236	294	394	446
A-321															20
A-330														3	110
A-340														3	84
AIRBUS	18	6	10	63	139	148	130	89	63	89	145	287	370	474	774
BAC 111	5	7	1	3	6	3	1			1	1				
BAE 146							4	8	22	20	18	17	18	36	40
TRIDENT	20	11	4						1	1					
MERCURE	8	2													
CONCORDE	13	8	7	9	7	13	11	23	12	4	11	2			
F.28															
F.100										8	34	82	82	79	174
VFW 614	3	5													
EUROPE	67	39	22	75	152	164	146	120	98	123	209	388	470	589	988
B-707	7	2	3												
B-727	65	117	183	190	152	89	33	18	8						
B-737	23	21	33	138	135	141	155	132	114	177	344	414	436	615	936
B-747	33	20	42	86	94	70	40	29	30	35	49	95	148	173	196
B-757				38	38	102	105	105	106	90	99	77	83	196	373
B-767				66	113	126	133	115	76	62	58	54	74	103	191
BOEING	128	160	261	518	532	528	466	399	334	364	550	640	741	1,087	1,696
DC-9	51	26	32	49	36	24	10								
MD-80			23	50	72	79	33	85	77	143	174	194	180	229	360
MD-87										6	10	25	36	49	68
DC-10	13	10	30	55	53	24	8	3	1	5	8	8	7	1	
MD-11												11	31	55	126
MC DD	64	36	85	154	161	127	51	88	78	154	192	238	254	334	554
L.1011	26	24	18	35	54	44	21	7	6	2					
TOTAL	285	259	386	782	899	863	684	614	516	643	951	1,266	1,465	2,010	3,238

EC - DG III / SOURCE: AIRBUS

CIVIL AIRCRAFT BACKLOG (UNITS)

MARKET SHARE OF EC BUILT AIRCRAFT (AS % OF WORLD TOTAL)

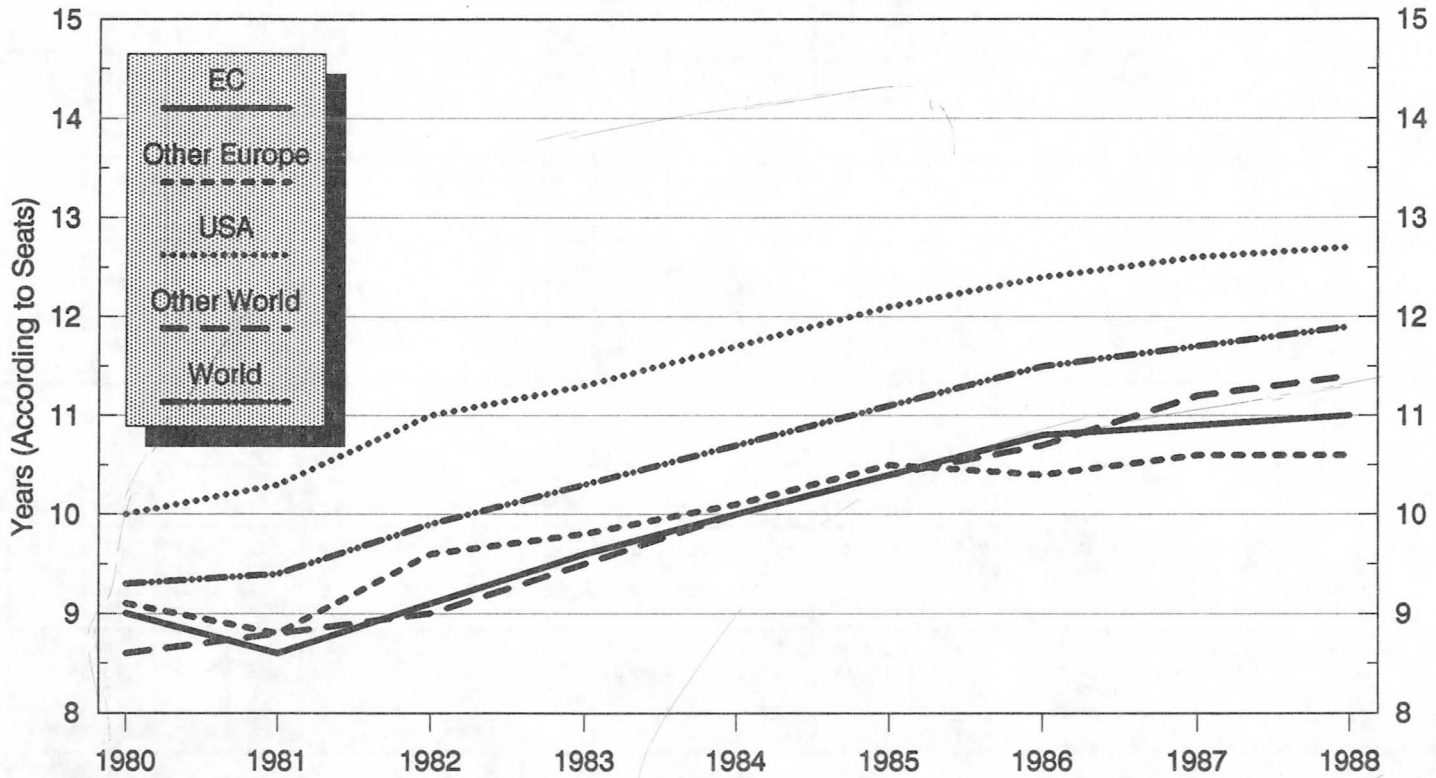
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
SHORT/MEDIUM HAUL	30	18	8	12	22	23	24	21	20	20	23	34	37	33	32
... NARROW	23	16	4	3	3	4	5	8	10	17	20	32	35	32	28
... WIDE	100	100	100	49	55	54	49	44	45	38	49	49	51	43	54
LONG HAUL	9	3	0	0	0	0	0	0	0	0	0	0	0	1	21
... NARROW	53	50	0	-	-	-	-	-	-	-	-	-	-	-	-
... WIDE	0	0	0	0	0	0	0	0	0	0	0	0	0	1	21
TOTAL	24	15	6	10	17	19	21	20	19	19	22	31	32	29	31
... NARROW	25	17	4	3	3	4	5	8	10	17	20	32	35	32	28
... WIDE	20	10	10	21	31	36	39	37	36	27	32	23	23	19	38

BREAKDOWN INTO CATEGORIES (AS % OF WORLD TOTAL)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
SHORT/MEDIUM HAUL	69	78	76	77	78	84	90	94	93	93	94	91	87	88	87
... NARROW	63	75	73	61	50	52	51	60	66	78	82	83	77	80	75
... WIDE	6	2	3	16	28	32	38	33	27	16	12	8	10	9	13
LONG HAUL	31	22	24	23	22	16	10	6	7	7	6	9	13	12	13
... NARROW	5	2	1	0	0	0	0	0	0	0	0	0	0	0	0
... WIDE	25	21	23	23	22	16	10	6	7	7	6	9	13	12	13
TOTAL															
... NARROW	68	77	74	61	50	52	51	60	66	78	82	83	77	80	75
... WIDE	32	23	26	39	50	48	49	40	34	22	18	17	23	20	25

EC - DG III / SOURCE: AIRBUS

Civil Aircraft Fleet Age



Source: AEROSPATIALE

CIVIL AIRCRAFT FLEET AGE (AT YEAR-END)

ACCORDING TO UNITS

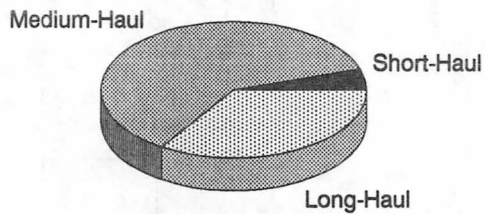
	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
BELGIUM	8.0	9.1	9.1	9.8	11.1	10.6	11.1	11.5	11.5	12.5
DENMARK	8.7	10.1	8.5	9.3	10.1	10.8	10.9	10.4	9.9	11.4
FRG	6.3	8.3	6.7	6.9	7.6	8.0	8.2	8.6	7.9	8.2
SPAIN	6.5	8.1	8.5	9.2	10.1	10.8	11.5	12.5	13.2	12.3
FRANCE	8.8	10.5	10.6	11.0	11.6	12.4	13.1	13.6	13.8	13.7
GREECE	8.7	9.8	8.3	8.5	9.3	9.3	9.6	10.6	11.7	12.5
IRELAND	10.0	12.3	12.4	13.7	13.2	13.0	13.6	13.8	11.0	13.2
ITALY	8.0	9.7	9.1	10.1	10.9	11.6	11.1	10.4	10.2	10.2
LUXEMBOURG	11.7	10.0	10.7	12.4	13.6	12.1	13.6	13.7	11.2	13.0
NETHERLANDS	8.6	10.5	10.9	11.1	11.0	11.3	11.4	10.9	10.8	11.1
PORTUGAL	4.5	8.6	9.4	10.1	8.6	9.4	10.6	11.5	11.6	11.4
UK	10.9	10.7	10.4	10.8	11.0	11.5	11.5	11.9	11.7	11.4
EC	8.7	9.8	9.5	10.0	10.5	11.0	11.3	11.7	11.5	11.5
REST OF EUROPE	6.8	9.2	9.0	9.6	10.0	10.6	10.8	10.6	10.7	10.6
USA	8.4	10.2	10.3	10.9	11.2	11.3	11.5	11.7	11.7	11.8
REST OF THE WORLD	8.0	9.3	9.5	9.8	10.2	10.7	11.2	11.6	12.0	12.2
WORLD	8.3	9.7	9.8	10.3	10.6	11.0	11.3	11.6	11.7	11.8

ACCORDING TO SEATS

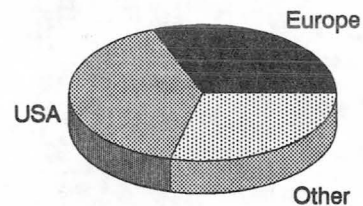
	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
BELGIUM	7.6	9.5	9.5	10.1	11.2	10.6	11.0	11.1	11.0	12.0
DENMARK	9.3	10.8	9.7	10.0	11.4	12.8	12.6	11.3	10.4	11.5
FRG	6.1	7.2	6.2	6.6	7.4	8.0	8.2	8.5	8.1	8.7
SPAIN	7.1	8.9	8.8	9.4	10.3	11.0	11.7	12.9	12.8	11.8
FRANCE	8.3	9.0	8.8	9.0	9.7	10.5	11.4	11.6	12.5	12.5
GREECE	8.5	10.0	8.6	8.8	9.7	9.8	10.2	11.0	12.1	12.8
IRELAND	10.2	12.7	12.8	14.0	14.5	15.0	15.9	16.0	12.9	15.8
ITALY	7.4	8.4	7.0	7.8	8.4	9.0	8.5	8.7	9.1	9.6
LUXEMBOURG	11.8	6.9	7.2	9.5	11.2	6.3	7.4	12.5	9.8	13.5
NETHERLANDS	6.9	8.6	9.0	9.5	9.3	9.6	10.0	9.9	10.1	10.4
PORTUGAL	5.7	11.0	11.5	11.8	8.9	9.3	10.3	11.3	11.1	9.1
UK	9.9	9.6	9.4	10.1	10.2	10.6	10.6	11.3	11.3	11.0
EC	8.1	9.0	8.6	9.1	9.6	10.0	10.4	10.8	10.9	11.0
REST OF EUROPE	6.3	9.1	8.8	9.6	9.8	10.1	10.5	10.4	10.6	10.6
USA	7.8	10.0	10.3	11.0	11.3	11.7	12.1	12.4	12.6	12.7
REST OF THE WORLD	7.5	8.6	8.8	9.0	9.5	10.0	10.4	10.7	11.2	11.4
WORLD	7.7	9.3	9.4	9.9	10.3	10.7	11.1	11.5	11.7	11.9

EC - DG III / SOURCE: AEROSPATIALE

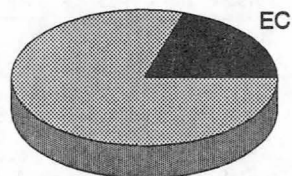
Civil Aircraft Orders (in value - 1988)



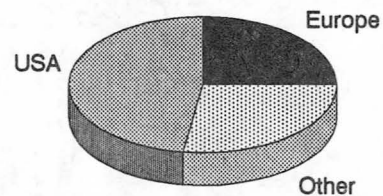
Breakdown By Type



Breakdown By Area



EC Market Share



Breakdown Of EC Markets

Source: AEROSPATIALE

TOTAL CIVIL AIRCRAFT ORDERS

UNITS

	1986	1987	1988
EC	348	498	620
REST OF EUROPE	96	112	171
USA	883	945	1,153
REST OF THE WORLD	528	575	671
TOTAL	1,855	2,130	2,615

SEATS (X 1,000)

	1986	1987	1988
EC	52.0	89.1	99.0
REST OF EUROPE	11.2	14.8	22.3
USA	115.9	128.5	162.0
REST OF THE WORLD	72.2	88.8	110.1
TOTAL	251.5	321.2	393.6

CONSTANT VALUE (MIO 1988 ECU) (NB: CONVERSION IN ECUS IMPLIES ROUNDING ERRORS)

	1986	1987	1988
EC	11,658	17,901	18,791
REST OF EUROPE	2,275	2,744	4,075
USA	24,784	24,060	29,475
REST OF THE WORLD	16,309	17,339	21,249
TOTAL	55,013	62,080	73,606

EC - DG III / SOURCE: AEROSPATIALE

TOTAL CIVIL AIRCRAFT ORDERS : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	18.8	23.4	23.7
REST OF EUROPE	5.2	5.3	6.5
USA	47.6	44.4	44.1
REST OF THE WORLD	28.5	27.0	25.7

SEATS

	1986	1987	1988
EC	20.7	27.7	25.2
REST OF EUROPE	4.5	4.6	5.7
USA	46.1	40.0	41.2
REST OF THE WORLD	28.7	27.6	28.0

VALUE

	1986	1987	1988
EC	21.2	28.8	25.5
REST OF EUROPE	4.1	4.4	5.5
USA	45.1	38.8	40.0
REST OF THE WORLD	29.6	27.9	28.9

EC - DG III / SOURCE: AEROSPATIALE

TOTAL CIVIL AIRCRAFT ORDERS : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	44.3	43.8	28.4
REST OF EUROPE	44.8	47.3	30.4
USA	30.6	41.1	28.4
REST OF THE WORLD	38.4	45.7	37.9
TOTAL	36.1	43.3	30.9

SEATS

	1986	1987	1988
EC	32.1	36.3	18.4
REST OF EUROPE	32.1	33.1	14.3
USA	27.3	39.6	24.9
REST OF THE WORLD	24.2	30.0	22.1
TOTAL	27.6	35.7	21.9

VALUE

	1986	1987	1988
EC	28.9	35.0	17.2
REST OF EUROPE	30.1	31.0	12.5
USA	26.8	39.2	24.2
REST OF THE WORLD	21.5	27.1	19.2
TOTAL	25.8	34.2	20.3

EC - DG III / SOURCE: AEROSPATIALE

TOTAL CIVIL AIRCRAFT ORDERS : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	23.0	23.6	21.8
REST OF EUROPE	6.4	5.7	6.4
USA	40.3	42.1	40.4
REST OF THE WORLD	30.3	28.5	31.4

SEATS

	1986	1987	1988
EC	24.0	28.2	21.1
REST OF EUROPE	5.2	4.3	3.7
USA	45.5	44.4	46.9
REST OF THE WORLD	25.2	23.2	28.2

VALUE

	1986	1987	1988
EC	23.7	29.5	21.6
REST OF EUROPE	4.8	4.0	3.4
USA	46.8	44.4	47.6
REST OF THE WORLD	24.7	22.1	27.3

EC - DG III / SOURCE: AEROSPATIALE

SHORT HAUL AIRCRAFT ORDERS : ABSOLUTE FIGURES

UNITS

	1986	1987	1988
EC	78	84	138
REST OF EUROPE	24	23	49
USA	116	185	216
REST OF THE WORLD	231	217	240
TOTAL	449	509	643

SEATS (X 1,000)

	1986	1987	1988
EC	3.0	3.3	6.5
REST OF EUROPE	1.1	1.1	2.3
USA	3.9	6.7	7.5
REST OF THE WORLD	8.4	8.5	9.6
TOTAL	16.4	19.6	26.0

CONSTANT VALUE (MIO 1988 ECU) (NB: CONVERSION IN ECUS IMPLIES ROUNDING ERRORS)

	1986	1987	1988
EC	525	498	927
REST OF EUROPE	187	144	340
USA	642	986	1,072
REST OF THE WORLD	1,447	1,263	1,370
TOTAL	2,789	2,900	3,734

EC - DG III / SOURCE: AEROSPATIALE

SHORT HAUL AIRCRAFT ORDERS : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	17.4	16.5	21.5
REST OF EUROPE	5.3	4.5	7.6
USA	25.8	36.3	33.6
REST OF THE WORLD	51.4	42.6	37.3

SEATS

	1986	1987	1988
EC	18.3	16.8	25.0
REST OF EUROPE	6.7	5.6	8.8
USA	23.8	34.2	28.8
REST OF THE WORLD	51.2	43.4	36.9

VALUE

	1986	1987	1988
EC	18.8	17.2	24.8
REST OF EUROPE	6.7	5.0	9.1
USA	23.0	34.0	28.7
REST OF THE WORLD	51.9	43.6	36.7

EC - DG III / SOURCE: AEROSPATIALE

SHORT HAUL AIRCRAFT ORDERS : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	83.3	76.2	83.3
REST OF EUROPE	100.0	95.7	93.9
USA	42.2	44.9	33.8
REST OF THE WORLD	54.5	69.6	64.2
TOTAL	58.8	62.9	60.3

SEATS

	1986	1987	1988
EC	90.0	84.8	87.7
REST OF EUROPE	100.0	90.9	95.7
USA	48.7	52.2	40.0
REST OF THE WORLD	58.3	74.1	69.8
TOTAL	64.6	69.4	67.7

VALUE

	1986	1987	1988
EC	88.9	82.7	88.1
REST OF EUROPE	100.0	100.0	95.0
USA	49.1	52.4	39.7
REST OF THE WORLD	58.1	74.2	69.6
TOTAL	64.9	69.3	67.7

EC - DG III / SOURCE: AEROSPATIALE

SHORT HAUL AIRCRAFT ORDERS : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	24.6	20.0	29.6
REST OF EUROPE	9.1	6.9	11.9
USA	18.6	25.9	18.8
REST OF THE WORLD	47.7	47.2	39.7

SEATS

	1986	1987	1988
EC	25.5	20.6	32.4
REST OF EUROPE	10.4	7.4	12.5
USA	17.9	25.7	17.0
REST OF THE WORLD	46.2	46.3	38.1

VALUE

	1986	1987	1988
EC	25.8	20.5	32.3
REST OF EUROPE	10.3	7.1	12.8
USA	17.4	25.7	16.8
REST OF THE WORLD	46.5	46.7	37.7

EC - DG III / SOURCE: AEROSPATIALE

MEDIUM HAUL AIRCRAFT ORDERS : ABSOLUTE FIGURES

UNITS

	1986	1987	1988
EC	224	285	384
REST OF EUROPE	69	77	105
USA	749	695	869
REST OF THE WORLD	215	264	296
TOTAL	1,257	1,321	1,654

SEATS (X 1,000)

	1986	1987	1988
EC	31.4	41.1	56.0
REST OF EUROPE	9.5	10.2	15.1
USA	105.1	100.5	131.9
REST OF THE WORLD	34.8	43.4	48.5
TOTAL	180.9	195.2	251.6

CONSTANT VALUE (MIO 1988 ECU) (NB: CONVERSION IN ECUS IMPLIES ROUNDING ERRORS)

	1986	1987	1988
EC	6,625	7,462	9,944
REST OF EUROPE	1,992	1,859	2,714
USA	22,344	18,361	23,495
REST OF THE WORLD	7,367	7,907	8,591
TOTAL	38,327	35,606	44,744

EC - DG III / SOURCE: AEROSPATIALE

MEDIUM HAUL AIRCRAFT ORDERS : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	17.8	21.6	23.2
REST OF EUROPE	5.5	5.8	6.3
USA	59.6	52.6	52.5
REST OF THE WORLD	17.1	20.0	17.9

SEATS

	1986	1987	1988
EC	17.4	21.1	22.3
REST OF EUROPE	5.3	5.2	6.0
USA	58.1	51.5	52.4
REST OF THE WORLD	19.2	22.2	19.3

VALUE

	1986	1987	1988
EC	17.3	21.0	22.2
REST OF EUROPE	5.2	5.2	6.1
USA	58.3	51.6	52.5
REST OF THE WORLD	19.2	22.2	19.2

EC - DG III / SOURCE: AEROSPATIALE

MEDIUM HAUL AIRCRAFT ORDERS : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	39.7	38.9	11.5
REST OF EUROPE	24.6	40.3	5.7
USA	29.5	41.0	28.9
REST OF THE WORLD	35.8	40.5	33.8
TOTAL	32.1	40.4	24.2

SEATS

	1986	1987	1988
EC	44.6	40.9	13.4
REST OF EUROPE	24.2	38.2	6.6
USA	28.3	41.3	27.7
REST OF THE WORLD	36.2	43.3	36.3
TOTAL	32.4	41.5	24.9

VALUE

	1986	1987	1988
EC	43.9	40.6	13.4
REST OF EUROPE	25.0	38.0	6.9
USA	28.3	41.4	27.7
REST OF THE WORLD	36.1	43.4	36.4
TOTAL	32.3	41.5	25.0

EC - DG III / SOURCE: AEROSPATIALE

MEDIUM HAUL AIRCRAFT ORDERS : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	22.0	20.8	11.0
REST OF EUROPE	4.2	5.8	1.5
USA	54.7	53.4	62.6
REST OF THE WORLD	19.1	20.0	24.9

SEATS

	1986	1987	1988
EC	23.9	20.7	12.0
REST OF EUROPE	3.9	4.8	1.6
USA	50.6	51.2	58.3
REST OF THE WORLD	21.5	23.2	28.1

VALUE

	1986	1987	1988
EC	23.4	20.5	12.0
REST OF EUROPE	4.0	4.8	1.7
USA	51.1	51.4	58.3
REST OF THE WORLD	21.5	23.2	28.0

EC - DG III / SOURCE: AEROSPATIALE

LONG HAUL AIRCRAFT ORDERS : ABSOLUTE FIGURES

UNITS

	1986	1987	1988
EC	46	129	98
REST OF EUROPE	3	12	17
USA	18	65	68
REST OF THE WORLD	82	94	135
TOTAL	149	300	318

SEATS (X 1,000)

	1986	1987	1988
EC	17.6	44.7	36.5
REST OF EUROPE	0.6	3.5	4.9
USA	6.9	21.3	22.6
REST OF THE WORLD	29.0	36.9	52.0
TOTAL	54.2	106.4	116.0

CONSTANT VALUE (MIO 1988 ECU) (NB: CONVERSION IN ECUS IMPLIES ROUNDING ERRORS)

	1986	1987	1988
EC	4,508	9,942	7,919
REST OF EUROPE	96	742	1,021
USA	1,799	4,713	4,908
REST OF THE WORLD	7,495	8,169	11,288
TOTAL	13,897	23,574	25,128

EC - DG III / SOURCE: AEROSPATIALE

LONG HAUL AIRCRAFT ORDERS : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	30.9	43.0	30.8
REST OF EUROPE	2.0	4.0	5.3
USA	12.1	21.7	21.4
REST OF THE WORLD	55.0	31.3	42.5

SEATS

	1986	1987	1988
EC	32.5	42.0	31.5
REST OF EUROPE	1.1	3.3	4.2
USA	12.7	20.0	19.5
REST OF THE WORLD	53.5	34.7	44.8

VALUE

	1986	1987	1988
EC	32.4	42.2	31.5
REST OF EUROPE	0.7	3.1	4.1
USA	12.9	20.0	19.5
REST OF THE WORLD	53.9	34.7	44.9

EC - DG III / SOURCE: AEROSPATIALE

LONG HAUL AIRCRAFT ORDERS : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	0.0	33.3	17.3
REST OF EUROPE	66.7	0.0	0.0
USA	0.0	30.8	4.4
REST OF THE WORLD	0.0	5.3	0.0
TOTAL	1.3	22.7	6.3

SEATS

	1986	1987	1988
EC	0.0	28.4	13.7
REST OF EUROPE	33.3	0.0	0.0
USA	0.0	27.7	4.0
REST OF THE WORLD	0.0	4.1	0.0
TOTAL	0.4	18.9	5.1

VALUE

	1986	1987	1988
EC	0.0	28.4	13.7
REST OF EUROPE	0.0	0.0	0.0
USA	0.0	27.8	4.0
REST OF THE WORLD	0.0	4.0	0.0
TOTAL	0.0	18.9	5.1

EC - DG III / SOURCE: AEROSPATIALE

LONG HAUL AIRCRAFT ORDERS : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1986	1987	1988
EC	0.0	63.2	85.0
REST OF EUROPE	100.0	0.0	0.0
USA	0.0	29.4	15.0
REST OF THE WORLD	0.0	7.4	0.0

SEATS

	1986	1987	1988
EC	0.0	63.2	84.7
REST OF EUROPE	100.0	0.0	0.0
USA	0.0	29.4	15.3
REST OF THE WORLD	0.0	7.5	0.0

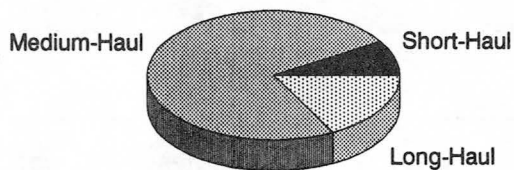
VALUE

	1986	1987	1988
EC	0.0	63.3	85.3
REST OF EUROPE	0.0	0.0	0.0
USA	0.0	29.4	15.3
REST OF THE WORLD	0.0	7.3	0.0

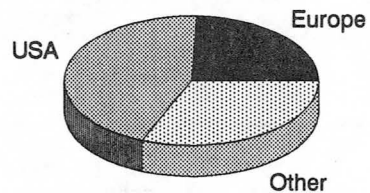
EC - DG III / SOURCE: AEROSPATIALE

Civil Aircraft Deliveries

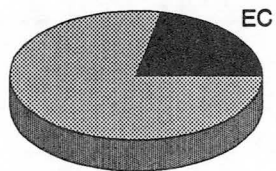
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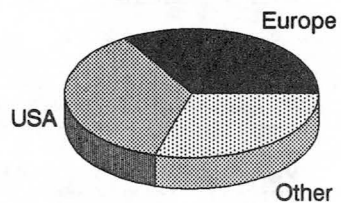
Breakdown By Type



Breakdown By Area



EC World Market Share



Breakdown Of EC Markets

Source: AEROSPATIALE

TOTAL CIVIL AIRCRAFT DELIVERIES

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	104	159	139	73	88	81	86	81	159	179
REST OF EUROPE	25	26	41	16	23	18	35	54	40	51
USA	113	277	246	198	240	275	373	383	400	449
REST OF THE WORLD	243	275	284	226	170	158	174	172	174	249
TOTAL	485	737	710	513	521	532	668	690	773	928

SEATS (X 1,000)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	13.3	24.4	20.7	9.3	12.3	10.0	11.8	11.4	19.1	21.0
REST OF EUROPE	4.2	3.0	4.8	1.5	3.9	1.2	3.6	5.8	4.1	5.2
USA	18.4	32.3	25.1	22.2	26.4	23.1	32.0	34.5	39.1	48.1
REST OF THE WORLD	28.0	44.0	41.2	33.0	22.6	22.4	26.1	27.4	23.8	32.1
TOTAL	63.7	103.6	91.8	65.9	65.2	57.0	73.4	79.2	86.2	106.4

CONSTANT VALUE (MIO 1988 ECU) (NB: CONVERSION IN ECUS IMPLIES ROUNDING ERRORS)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	2,411	4,008	4,134	2,104	3,018	2,670	3,380	2,595	3,514	3,734
REST OF EUROPE	804	469	936	357	989	295	969	1,224	760	927
USA	3,157	5,021	4,696	4,642	6,134	6,058	8,484	7,252	7,033	8,464
REST OF THE WORLD	4,912	7,247	8,342	7,321	5,556	6,183	7,575	6,162	4,579	5,997
TOTAL	11,295	16,736	18,130	14,425	15,711	15,205	20,394	17,234	15,886	19,131

EC - DG III / SOURCE: AEROSPATIALE

TOTAL CIVIL AIRCRAFT DELIVERIES : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	21.4	21.6	19.6	14.2	16.9	15.2	12.9	11.7	20.6	19.3
REST OF EUROPE	5.2	3.5	5.8	3.1	4.4	3.4	5.2	7.8	5.2	5.5
USA	23.3	37.6	34.6	38.6	46.1	51.7	55.8	55.5	51.7	48.4
REST OF THE WORLD	50.1	37.3	40.0	44.1	32.6	29.7	26.0	24.9	22.5	26.8

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	20.9	23.6	22.5	14.1	18.9	17.5	16.1	14.4	22.2	19.7
REST OF EUROPE	6.6	2.9	5.2	2.3	6.0	2.1	4.9	7.3	4.8	4.9
USA	28.9	31.2	27.3	33.7	40.5	40.5	43.6	43.6	45.4	45.2
REST OF THE WORLD	44.0	42.5	44.9	50.1	34.7	39.3	35.6	34.6	27.6	30.2

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	21.3	23.9	22.8	14.6	19.2	17.6	16.6	15.1	22.1	19.5
REST OF EUROPE	7.1	2.8	5.2	2.5	6.3	1.9	4.8	7.1	4.8	4.8
USA	28.0	30.0	25.9	32.2	39.0	39.8	41.6	42.1	44.3	44.2
REST OF THE WORLD	43.5	43.3	46.0	50.8	35.4	40.7	37.1	35.8	28.8	31.3

EC - DG III / SOURCE: AEROSPATIALE

TOTAL CIVIL AIRCRAFT DELIVERIES : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	52.9	16.4	21.6	43.8	40.9	53.1	33.7	38.3	38.4	38.5
REST OF EUROPE	0.0	30.8	14.6	18.8	30.4	72.2	51.4	51.9	40.0	54.9
USA	1.8	15.2	12.2	8.6	19.2	22.2	37.5	34.2	27.5	28.1
REST OF THE WORLD	23.9	17.8	28.9	35.8	54.7	56.3	34.5	34.3	33.9	37.3
TOTAL	23.7	17.0	20.8	25.9	34.9	38.7	37.0	36.1	31.8	34.1

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	26.3	18.0	21.7	35.5	28.5	45.0	21.2	17.5	26.2	29.0
REST OF EUROPE	0.0	33.3	8.3	13.3	25.6	50.0	36.1	44.8	17.1	42.3
USA	0.5	8.4	9.6	8.1	11.0	14.7	25.9	20.0	13.0	19.1
REST OF THE WORLD	15.0	13.0	18.0	33.0	31.9	42.4	26.1	27.4	24.4	23.4
TOTAL	12.1	13.2	16.1	24.6	22.5	31.8	25.7	24.0	19.3	23.4

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	23.3	16.6	20.0	32.7	26.3	43.1	19.2	15.2	24.2	27.3
REST OF EUROPE	0.0	29.8	8.2	15.3	24.5	44.1	34.6	43.4	15.7	41.3
USA	0.3	7.3	9.2	7.7	10.6	13.8	24.7	18.5	12.0	18.0
REST OF THE WORLD	13.7	11.5	15.9	31.0	29.1	40.1	23.9	25.2	22.0	20.6
TOTAL	11.0	12.0	14.7	23.4	21.1	30.2	24.0	22.2	17.8	21.8

EC - DG III / SOURCE: AEROSPATIALE

TOTAL CIVIL AIRCRAFT DELIVERIES : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	47.8	20.8	20.3	24.1	19.8	20.9	11.7	12.4	24.8	21.8
REST OF EUROPE	0.0	6.4	4.1	2.3	3.8	6.3	7.3	11.2	6.5	8.9
USA	1.7	33.6	20.3	12.8	25.3	29.6	56.7	52.6	44.7	39.9
REST OF THE WORLD	50.4	39.2	55.4	60.9	51.1	43.2	24.3	23.7	24.0	29.4

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	45.5	32.1	30.4	20.4	23.8	24.9	13.2	10.5	30.1	24.5
REST OF EUROPE	0.0	7.3	2.7	1.2	6.8	3.3	6.9	13.7	4.2	8.8
USA	1.3	19.7	16.2	11.1	19.7	18.8	43.9	36.3	30.7	36.9
REST OF THE WORLD	54.5	41.6	50.0	67.3	49.0	52.5	36.0	39.5	34.9	30.1

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	45.2	33.2	30.9	20.4	24.0	25.0	13.3	10.3	30.1	24.5
REST OF EUROPE	0.0	6.9	2.9	1.6	7.3	2.8	6.9	13.9	4.2	9.2
USA	0.8	18.4	16.2	10.6	19.7	18.2	42.9	35.2	30.0	36.5
REST OF THE WORLD	54.0	41.5	49.6	67.4	48.9	53.9	37.0	40.6	35.7	29.6

EC - DG III / SOURCE: AEROSPATIALE

SHORT HAUL AIRCRAFT DELIVERIES : ABSOLUTE FIGURES

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	43	38	35	29	22	28	22	31	60	59
REST OF EUROPE	0	10	13	6	7	13	15	17	14	17
USA	15	108	105	68	90	135	187	187	173	181
REST OF THE WORLD	92	102	103	79	66	59	57	47	73	122
TOTAL	150	258	256	182	185	235	281	282	320	379

SEATS (X 1,000)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	1.0	0.8	1.1	0.7	0.5	0.8	0.6	1.1	2.1	2.4
REST OF EUROPE	0.0	0.2	0.2	0.1	0.4	0.4	0.4	0.6	0.5	0.6
USA	0.4	2.7	2.6	1.7	2.1	2.9	5.0	5.3	4.8	5.1
REST OF THE WORLD	2.4	2.3	2.7	2.3	1.9	1.7	1.8	1.5	2.3	3.8
TOTAL	3.7	6.1	6.6	4.9	4.8	6.0	7.8	8.6	9.8	11.9

CONSTANT VALUE (MIO 1988 ECU) (NB: CONVERSION IN ECUS IMPLIES ROUNDING ERRORS)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	129	97	154	126	111	187	145	175	297	340
REST OF EUROPE	0	27	44	13	55	78	113	117	77	94
USA	40	319	386	289	401	640	1,082	899	708	715
REST OF THE WORLD	318	292	408	390	346	375	371	257	364	544
TOTAL	506	726	1,004	830	927	1,280	1,711	1,459	1,436	1,710

EC - DG III / SOURCE: AEROSPATIALE

SHORT HAUL AIRCRAFT DELIVERIES : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	28.7	14.7	13.7	15.9	11.9	11.9	7.8	11.0	18.8	15.6
REST OF EUROPE	0.0	3.9	5.1	3.3	3.8	5.5	5.3	6.0	4.4	4.5
USA	10.0	41.9	41.0	37.4	48.6	57.4	66.5	66.3	54.1	47.8
REST OF THE WORLD	61.3	39.5	40.2	43.4	35.7	25.1	20.3	16.7	22.8	32.2

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	27.0	13.1	16.7	14.3	10.4	13.3	7.7	12.8	21.4	20.2
REST OF EUROPE	0.0	3.3	3.0	2.0	8.3	6.7	5.1	7.0	5.1	5.0
USA	10.8	44.3	39.4	34.7	43.7	48.3	64.1	61.6	49.0	42.9
REST OF THE WORLD	64.9	37.7	40.9	46.9	39.6	28.3	23.1	17.4	23.5	31.9

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	25.5	13.4	15.4	15.2	11.9	14.6	8.5	12.0	20.7	19.9
REST OF EUROPE	0.0	3.7	4.4	1.5	6.0	6.1	6.6	8.0	5.3	5.5
USA	7.8	43.9	38.5	34.8	43.3	50.0	63.2	61.6	49.3	41.8
REST OF THE WORLD	62.7	40.2	40.7	47.0	37.3	29.3	21.7	17.6	25.3	31.8

EC - DG III / SOURCE: AEROSPATIALE

SHORT HAUL AIRCRAFT DELIVERIES : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	95.3	15.8	40.0	58.6	90.9	92.9	86.4	77.4	73.3	69.5
REST OF EUROPE	-	40.0	23.1	0.0	28.6	84.6	93.3	88.2	85.7	88.2
USA	13.3	29.6	19.0	14.7	40.0	34.1	55.1	51.3	53.2	54.7
REST OF THE WORLD	33.7	24.5	52.4	49.4	87.9	74.6	52.6	48.9	45.2	55.7
TOTAL	49.3	26.0	35.5	36.3	62.7	54.0	59.1	56.0	56.6	58.8

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	100.0	25.0	45.5	57.1	100.0	100.0	100.0	81.8	76.2	75.0
REST OF EUROPE	-	50.0	0.0	0.0	25.0	75.0	100.0	100.0	80.0	100.0
USA	25.0	37.0	19.2	17.6	47.6	44.8	62.0	54.7	56.3	60.8
REST OF THE WORLD	54.2	30.4	59.3	56.5	89.5	64.7	55.6	53.3	47.8	63.2
TOTAL	62.2	32.8	40.9	42.9	68.7	60.0	65.4	60.5	59.2	65.5

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	100.0	27.3	50.0	60.0	87.5	91.7	88.9	86.7	77.4	77.5
REST OF EUROPE	-	33.3	0.0	0.0	25.0	80.0	85.7	90.0	87.5	90.9
USA	25.0	36.1	20.0	17.4	48.3	43.9	62.7	55.8	56.8	60.7
REST OF THE WORLD	56.3	30.3	59.5	58.1	92.0	66.7	56.5	50.0	44.7	60.9
TOTAL	62.7	32.9	40.7	42.4	68.7	59.8	65.1	60.8	60.0	65.7

EC - DG III / SOURCE: AEROSPATIALE

SHORT HAUL AIRCRAFT DELIVERIES : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	55.4	9.0	15.4	25.8	17.2	20.5	11.4	15.2	24.3	18.4
REST OF EUROPE	0.0	6.0	3.3	0.0	1.7	8.7	8.4	9.5	6.6	6.7
USA	2.7	47.8	22.0	15.2	31.0	36.2	62.0	60.8	50.8	44.4
REST OF THE WORLD	41.9	37.3	59.3	59.1	50.0	34.6	18.1	14.6	18.2	30.5

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	43.5	10.0	18.5	19.0	15.2	22.2	11.8	17.3	27.6	23.1
REST OF EUROPE	0.0	5.0	0.0	0.0	3.0	8.3	7.8	11.5	6.9	7.7
USA	4.3	50.0	18.5	14.3	30.3	36.1	60.8	55.8	46.6	39.7
REST OF THE WORLD	56.5	35.0	59.3	61.9	51.5	30.6	19.6	15.4	19.0	30.8

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	40.6	11.1	18.9	21.4	15.2	22.4	11.6	17.1	26.7	23.5
REST OF EUROPE	0.0	3.7	0.0	0.0	2.2	8.2	8.7	11.8	7.8	7.6
USA	3.1	48.1	18.9	14.3	30.4	36.7	60.9	56.6	46.7	38.6
REST OF THE WORLD	56.3	37.0	59.5	64.3	50.0	32.7	18.8	14.5	18.9	29.5

EC - DG III / SOURCE: AEROSPATIALE

MEDIUM HAUL AIRCRAFT DELIVERIES : ABSOLUTE FIGURES

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	41	85	83	36	57	49	56	39	92	115
REST OF EUROPE	16	14	25	8	12	5	20	37	25	34
USA	91	141	132	130	149	137	185	185	222	262
REST OF THE WORLD	125	109	128	122	87	85	94	101	80	98
TOTAL	273	349	368	296	305	276	355	362	419	509

SEATS (X 1,000)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	6.5	12.2	12.1	5.4	8.9	8.3	8.6	5.6	14.0	16.6
REST OF EUROPE	1.9	2.3	3.5	0.9	1.8	0.8	3.2	5.2	3.2	4.6
USA	15.7	21.6	20.2	20.5	23.9	19.1	26.7	25.9	32.4	40.9
REST OF THE WORLD	17.8	19.6	21.0	22.0	14.2	15.5	15.3	16.5	13.7	17.2
TOTAL	41.8	55.6	56.8	48.6	48.9	43.8	53.8	53.2	63.3	79.3

CONSTANT VALUE (MIO 1988 ECU) (NB: CONVERSION IN ECUS IMPLIES ROUNDING ERRORS)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	1,088	1,831	2,274	1,148	2,082	2,186	2,359	1,199	2,548	2,952
REST OF EUROPE	328	346	643	208	445	217	856	1,108	593	834
USA	2,651	3,247	3,781	4,353	5,621	5,065	7,315	5,497	5,908	7,281
REST OF THE WORLD	2,988	2,932	3,944	4,670	3,346	4,114	4,212	3,485	2,478	3,062
TOTAL	7,055	8,357	10,643	10,378	11,482	11,597	14,743	11,289	11,537	14,121

EC - DG III / SOURCE: AEROSPATIALE

MEDIUM HAUL AIRCRAFT DELIVERIES : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	15.0	24.4	22.6	12.2	18.7	17.8	15.8	10.8	22.0	22.6
REST OF EUROPE	5.9	4.0	6.8	2.7	3.9	1.8	5.6	10.2	6.0	6.7
USA	33.3	40.4	35.9	43.9	48.9	49.6	52.1	51.1	53.0	51.5
REST OF THE WORLD	45.8	31.2	34.8	41.2	28.5	30.8	26.5	27.9	19.1	19.3

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	15.6	21.9	21.3	11.1	18.2	18.9	16.0	10.5	22.1	20.9
REST OF EUROPE	4.5	4.1	6.2	1.9	3.7	1.8	5.9	9.8	5.1	5.8
USA	37.6	38.8	35.6	42.2	48.9	43.6	49.6	48.7	51.2	51.6
REST OF THE WORLD	42.6	35.3	37.0	45.3	29.0	35.4	28.4	31.0	21.6	21.7

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	15.4	21.9	21.4	11.1	18.1	18.9	16.0	10.6	22.1	20.9
REST OF EUROPE	4.7	4.1	6.0	2.0	3.9	1.9	5.8	9.8	5.1	5.9
USA	37.6	38.9	35.5	41.9	49.0	43.7	49.6	48.7	51.2	51.6
REST OF THE WORLD	42.4	35.1	37.1	45.0	29.1	35.5	28.6	30.9	21.5	21.7

EC - DG III / SOURCE: AEROSPATIALE

MEDIUM HAUL AIRCRAFT DELIVERIES : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	29.3	21.2	19.3	41.7	28.1	34.7	17.9	17.9	18.5	24.3
REST OF EUROPE	0.0	28.6	12.0	37.5	41.7	40.0	20.0	35.1	16.0	38.2
USA	0.0	7.1	7.6	5.4	6.7	10.9	20.0	18.9	8.1	10.3
REST OF THE WORLD	21.6	22.0	21.9	34.4	40.2	52.9	31.9	35.6	32.5	25.5
TOTAL	14.3	16.0	15.5	22.6	21.6	28.6	22.8	25.1	15.5	18.3

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	35.4	32.8	33.1	53.7	33.7	44.6	22.1	19.6	24.3	25.9
REST OF EUROPE	0.0	39.1	11.4	22.2	50.0	37.5	28.1	38.5	9.4	34.8
USA	0.0	7.9	9.4	7.3	7.9	11.0	19.5	15.4	7.4	14.9
REST OF THE WORLD	16.3	25.5	27.6	43.6	38.7	54.2	37.9	40.6	34.3	29.7
TOTAL	12.4	20.7	21.3	29.0	23.3	33.1	25.7	25.9	17.1	21.6

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	35.7	32.8	32.9	53.3	33.5	44.7	22.0	20.3	24.3	25.6
REST OF EUROPE	0.0	37.8	11.9	26.3	51.4	31.2	27.9	38.5	8.8	35.7
USA	0.0	7.8	9.4	7.0	8.1	11.0	19.4	15.3	7.5	15.0
REST OF THE WORLD	16.5	25.5	27.5	43.8	38.8	54.1	38.0	40.8	34.2	29.4
TOTAL	12.5	20.7	21.3	29.1	23.3	33.0	25.6	26.0	17.0	21.6

EC - DG III / SOURCE: AEROSPATIALE

MEDIUM HAUL AIRCRAFT DELIVERIES : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	30.8	32.1	28.1	22.4	24.2	21.5	12.3	7.7	26.2	30.1
REST OF EUROPE	0.0	7.1	5.3	4.5	7.6	2.5	4.9	14.3	6.2	14.0
USA	0.0	17.9	17.5	10.4	15.2	19.0	45.7	38.5	27.7	29.0
REST OF THE WORLD	69.2	42.9	49.1	62.7	53.0	57.0	37.0	39.6	40.0	26.9

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	44.2	34.8	33.1	20.6	26.3	25.5	13.8	8.0	31.5	25.1
REST OF EUROPE	0.0	7.8	3.3	1.4	7.9	2.1	6.5	14.5	2.8	9.4
USA	0.0	14.8	15.7	10.6	16.7	14.5	37.7	29.0	22.2	35.7
REST OF THE WORLD	55.8	43.5	47.9	68.1	48.2	57.9	42.0	48.6	43.5	29.8

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	44.1	34.7	33.1	20.3	26.1	25.5	13.8	8.3	31.6	24.9
REST OF EUROPE	0.0	7.6	3.4	1.8	8.6	1.8	6.3	14.5	2.7	9.8
USA	0.0	14.7	15.7	10.1	17.1	14.5	37.5	28.7	22.7	35.8
REST OF THE WORLD	55.9	43.1	47.9	67.8	48.6	58.2	42.4	48.4	43.1	29.6

EC - DG III / SOURCE: AEROSPATIALE

LONG HAUL AIRCRAFT DELIVERIES : ABSOLUTE FIGURES

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	20	36	21	8	9	4	8	11	7	5
REST OF EUROPE	9	2	3	2	4	0	0	0	1	0
USA	7	28	9	0	1	3	1	11	5	6
REST OF THE WORLD	26	64	53	25	17	14	23	24	21	29
TOTAL	62	130	86	35	31	21	32	46	34	40

SEATS (X 1,000)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	5.8	11.4	7.5	3.2	2.9	0.9	2.6	4.7	3.0	2.0
REST OF EUROPE	2.3	0.5	1.1	0.5	1.7	0.0	0.0	0.0	0.4	0.0
USA	2.3	8.0	2.3	0.0	0.4	1.1	0.3	3.3	1.9	2.1
REST OF THE WORLD	7.8	22.1	17.5	8.7	6.5	5.2	9.0	9.4	7.8	11.1
TOTAL	18.2	41.9	28.4	12.4	11.5	7.2	11.8	17.4	13.1	15.2

CONSTANT VALUE (MIO 1988 ECU) (NB: CONVERSION IN ECUS IMPLIES ROUNDING ERRORS)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	1,194	2,079	1,706	830	826	296	876	1,221	669	442
REST OF EUROPE	476	96	249	136	488	0	0	0	90	0
USA	467	1,456	529	0	113	353	88	857	416	468
REST OF THE WORLD	1,606	4,023	3,990	2,262	1,864	1,694	2,991	2,420	1,737	2,390
TOTAL	3,733	7,654	6,483	3,217	3,302	2,329	3,940	4,486	2,913	3,300

EC - DG III / SOURCE: AEROSPATIALE

LONG HAUL AIRCRAFT DELIVERIES : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	32.3	27.7	24.4	22.9	29.0	19.0	25.0	23.9	20.6	12.5
REST OF EUROPE	14.5	1.5	3.5	5.7	12.9	0.0	0.0	0.0	2.9	0.0
USA	11.3	21.5	10.5	0.0	3.2	14.3	3.1	23.9	14.7	15.0
REST OF THE WORLD	41.9	49.2	61.6	71.4	54.8	66.7	71.9	52.2	61.8	72.5

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	31.9	27.2	26.4	25.8	25.2	12.5	22.0	27.0	22.9	13.2
REST OF EUROPE	12.6	1.2	3.9	4.0	14.8	0.0	0.0	0.0	3.1	0.0
USA	12.6	19.1	8.1	0.0	3.5	15.3	2.5	19.0	14.5	13.8
REST OF THE WORLD	42.9	52.7	61.6	70.2	56.5	72.2	76.3	54.0	59.5	73.0

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	32.0	27.2	26.3	25.8	25.0	12.7	22.2	27.2	23.0	13.4
REST OF EUROPE	12.7	1.3	3.8	4.2	14.8	0.0	0.0	0.0	3.1	0.0
USA	12.5	19.0	8.2	0.0	3.4	15.2	2.2	19.1	14.3	14.2
REST OF THE WORLD	43.0	52.6	61.5	70.3	56.4	72.7	75.9	53.9	59.6	72.4

EC - DG III / SOURCE: AEROSPATIALE

LONG HAUL AIRCRAFT DELIVERIES : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	10.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0	-
USA	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	3.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0	-
USA	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0	-
USA	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

EC - DG III / SOURCE: AEROSPATIALE

LONG HAUL AIRCRAFT DELIVERIES : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

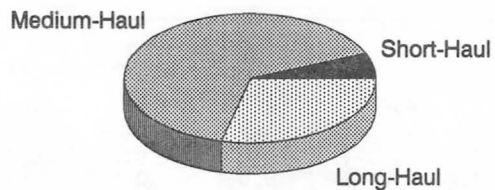
VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

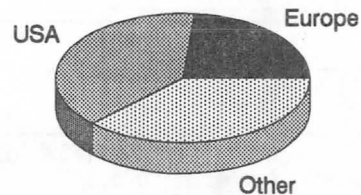
EC - DG III / SOURCE: AEROSPATIALE

Civil Aircraft In Service

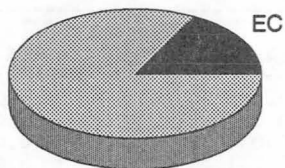
(in value - end 1988)



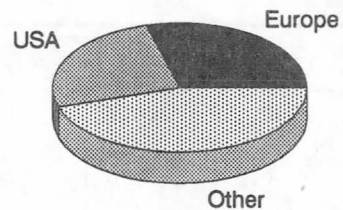
Breakdown By Type



Breakdown By Area



EC Market Share



Breakdown Of EC Markets

Source: AEROSPATIALE

TOTAL CIVIL AIRCRAFT FLEET (AT YEAR-END)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	1,411	1,606	1,598	1,624	1,646	1,658	1,697	1,799	1,908	2,110
REST OF EUROPE	280	369	390	388	396	412	451	496	549	588
USA	2,809	3,367	3,487	3,641	3,975	4,251	4,601	4,895	5,306	5,739
REST OF THE WORLD	2,465	3,399	3,604	3,707	3,753	3,794	3,907	4,051	4,342	4,624
TOTAL	6,965	8,741	9,079	9,360	9,770	10,115	10,656	11,241	12,105	13,061

SEATS (X 1,000)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	181.3	211.2	210.0	211.6	214.4	217.1	225.0	241.5	257.6	278.5
REST OF EUROPE	34.7	42.1	44.5	42.7	45.2	45.6	49.8	53.4	58.3	63.1
USA	406.1	469.7	480.1	492.1	531.2	556.1	592.3	614.2	660.7	712.4
REST OF THE WORLD	269.1	402.8	434.7	452.5	463.8	474.6	486.8	508.4	532.8	565.8
TOTAL	891.5	1,126.2	1,169.2	1,198.9	1,254.5	1,293.4	1,353.8	1,417.5	1,509.3	1,619.7

CONSTANT VALUE (MIO 1988 ECU) (*)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	21,421	20,813	26,596	29,200	31,205	34,065	35,376	28,162	25,442	26,234
REST OF EUROPE	4,622	4,005	5,367	5,482	6,321	6,903	7,522	6,175	5,669	5,971
USA	48,122	40,933	50,393	54,780	62,760	70,705	74,246	57,446	51,346	52,842
REST OF THE WORLD	32,571	40,390	53,722	62,282	67,509	74,493	76,134	59,341	51,049	51,404
TOTAL	106,738	106,126	136,070	151,743	167,808	186,210	193,292	151,157	133,496	136,451

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

TOTAL CIVIL AIRCRAFT FLEET (AT YEAR-END) : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	20.3	18.4	17.6	17.4	16.8	16.4	15.9	16.0	15.8	16.2
REST OF EUROPE	4.0	4.2	4.3	4.1	4.1	4.1	4.2	4.4	4.5	4.5
USA	40.3	38.5	38.4	38.9	40.7	42.0	43.2	43.5	43.8	43.9
REST OF THE WORLD	35.4	38.9	39.7	39.6	38.4	37.5	36.7	36.0	35.9	35.4

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	20.3	18.8	18.0	17.6	17.1	16.8	16.6	17.0	17.1	17.2
REST OF EUROPE	3.9	3.7	3.8	3.6	3.6	3.5	3.7	3.8	3.9	3.9
USA	45.6	41.7	41.1	41.0	42.3	43.0	43.8	43.3	43.8	44.0
REST OF THE WORLD	30.2	35.8	37.2	37.7	37.0	36.7	36.0	35.9	35.3	34.9

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	20.1	19.6	19.5	19.2	18.6	18.3	18.3	18.6	19.1	19.2
REST OF EUROPE	4.3	3.8	3.9	3.6	3.8	3.7	3.9	4.1	4.2	4.4
USA	45.1	38.6	37.0	36.1	37.4	38.0	38.4	38.0	38.5	38.7
REST OF THE WORLD	30.5	38.1	39.5	41.0	40.2	40.0	39.4	39.3	38.2	37.7

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

TOTAL CIVIL AIRCRAFT FLEET (AT YEAR-END) : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	49.7	44.3	44.2	43.7	44.4	45.7	44.5	43.2	40.8	40.9
REST OF EUROPE	18.9	19.8	20.5	19.1	20.2	24.0	26.8	29.8	30.4	32.1
USA	6.7	7.2	7.5	8.5	8.7	10.0	12.1	13.2	13.9	14.7
REST OF THE WORLD	33.8	28.0	27.7	28.3	29.2	29.9	30.3	30.6	31.4	31.7
TOTAL	25.5	22.6	22.5	22.9	23.1	23.9	24.6	25.0	25.2	25.7

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	32.8	27.5	27.8	27.4	27.5	28.8	27.6	26.5	26.0	26.7
REST OF EUROPE	12.4	13.1	13.5	11.5	13.9	15.8	18.1	19.3	18.9	20.4
USA	2.8	3.6	4.1	4.7	4.7	5.3	6.4	7.2	7.2	7.6
REST OF THE WORLD	20.4	16.7	16.5	17.9	18.4	19.2	19.6	20.4	20.6	20.9
TOTAL	14.6	13.1	13.3	13.9	14.0	14.7	15.1	15.7	15.6	16.0

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	24.7	20.8	20.9	21.2	21.3	23.0	22.0	21.2	20.7	21.3
REST OF EUROPE	8.5	11.9	11.6	8.7	13.1	14.2	17.6	20.0	19.4	22.1
USA	1.7	3.1	3.7	4.2	4.7	5.6	7.9	9.6	10.0	11.4
REST OF THE WORLD	14.2	12.6	13.0	15.2	16.4	18.0	18.6	19.9	20.2	20.7
TOTAL	10.4	10.5	11.1	12.1	12.8	14.1	15.1	16.2	16.3	17.3

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

TOTAL CIVIL AIRCRAFT FLEET (AT YEAR-END) : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	39.5	35.9	34.5	33.2	32.5	31.4	28.8	27.6	25.5	25.7
REST OF EUROPE	3.0	3.7	3.9	3.5	3.6	4.1	4.6	5.3	5.5	5.6
USA	10.5	12.2	12.8	14.4	15.4	17.5	21.3	23.0	24.2	25.1
REST OF THE WORLD	47.0	48.1	48.8	49.0	48.6	47.0	45.2	44.1	44.7	43.6

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	45.8	39.3	37.5	34.8	33.5	32.9	30.4	28.9	28.5	28.6
REST OF EUROPE	3.3	3.7	3.9	2.9	3.6	3.8	4.4	4.6	4.7	5.0
USA	8.7	11.4	12.7	13.8	14.3	15.5	18.5	19.9	20.3	20.9
REST OF THE WORLD	42.2	45.5	46.0	48.6	48.6	47.8	46.7	46.7	46.6	45.6

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	47.6	38.7	37.0	33.6	31.0	29.9	26.8	24.3	24.1	23.7
REST OF EUROPE	3.5	4.2	4.1	2.6	3.8	3.7	4.5	5.0	5.1	5.6
USA	7.2	11.5	12.3	12.5	13.6	15.2	20.1	22.5	23.6	25.6
REST OF THE WORLD	41.5	45.6	46.6	51.4	51.6	51.1	48.6	48.1	47.3	45.1

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

SHORT HAUL AIRCRAFT FLEET (AT YEAR-END) : ABSOLUTE FIGURES

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	313	467	490	516	531	529	550	579	594	673
REST OF EUROPE	35	73	89	91	99	119	132	157	182	197
USA	425	648	711	793	890	997	1,132	1,302	1,455	1,588
REST OF THE WORLD	1,000	1,358	1,426	1,470	1,477	1,490	1,553	1,618	1,804	1,940
TOTAL	1,773	2,546	2,716	2,870	2,997	3,135	3,367	3,656	4,035	4,398

SEATS (X 1,000)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	12.9	16.4	16.7	17.2	17.6	17.7	18.1	19.3	20.4	24.0
REST OF EUROPE	1.1	1.9	2.5	2.6	2.9	3.6	4.1	5.0	5.8	6.3
USA	16.6	21.0	22.8	25.2	27.2	29.2	33.1	39.0	42.5	45.8
REST OF THE WORLD	40.4	46.9	48.2	48.8	48.4	48.8	50.7	53.0	57.1	60.7
TOTAL	71.3	86.5	90.2	93.8	96.2	99.3	106.0	116.2	125.8	136.9

CONSTANT VALUE (MIO 1988 ECU) (*)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	864	849	1,081	1,207	1,287	1,405	1,421	1,167	1,168	1,361
REST OF EUROPE	89	115	188	226	263	343	436	455	469	510
USA	1,231	1,283	1,721	2,138	2,532	3,154	3,810	3,420	3,302	3,598
REST OF THE WORLD	3,118	2,752	3,476	3,936	4,124	4,465	4,585	3,455	3,178	3,300
TOTAL	5,312	4,999	6,477	7,494	8,220	9,383	10,251	8,520	8,107	8,770

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

SHORT HAUL AIRCRAFT FLEET (AT YEAR-END) : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	17.7	18.3	18.0	18.0	17.7	16.9	16.3	15.8	14.7	15.3
REST OF EUROPE	2.0	2.9	3.3	3.2	3.3	3.8	3.9	4.3	4.5	4.5
USA	24.0	25.5	26.2	27.6	29.7	31.8	33.6	35.6	36.1	36.1
REST OF THE WORLD	56.4	53.3	52.5	51.2	49.3	47.5	46.1	44.3	44.7	44.1

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	18.1	19.0	18.5	18.3	18.3	17.8	17.1	16.6	16.2	17.5
REST OF EUROPE	1.5	2.2	2.8	2.8	3.0	3.6	3.9	4.3	4.6	4.6
USA	23.3	24.3	25.3	26.9	28.3	29.4	31.2	33.6	33.8	33.5
REST OF THE WORLD	56.7	54.2	53.4	52.0	50.3	49.1	47.8	45.6	45.4	44.3

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	16.3	17.0	16.7	16.1	15.7	15.0	13.9	13.7	14.4	15.5
REST OF EUROPE	1.7	2.3	2.9	3.0	3.2	3.7	4.3	5.3	5.8	5.8
USA	23.2	25.7	26.6	28.5	30.8	33.6	37.2	40.1	40.7	41.0
REST OF THE WORLD	58.7	55.0	53.7	52.5	50.2	47.6	44.7	40.5	39.2	37.6

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

SHORT HAUL AIRCRAFT FLEET (AT YEAR-END) : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	91.4	80.5	78.2	77.7	79.1	81.7	80.0	78.6	73.2	72.2
REST OF EUROPE	48.6	37.0	38.2	34.1	33.3	42.9	49.2	55.4	59.3	60.4
USA	29.9	24.8	23.5	25.6	25.8	28.0	32.7	32.6	34.8	37.7
REST OF THE WORLD	58.4	47.8	47.6	46.9	48.3	49.5	49.7	48.8	49.2	48.9
TOTAL	57.2	47.6	46.5	46.1	46.6	47.8	48.9	48.0	48.0	48.9

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	93.8	87.8	85.6	85.5	85.8	87.6	86.2	83.9	79.9	78.7
REST OF EUROPE	72.7	52.6	52.0	46.2	44.8	52.8	61.0	64.0	69.0	69.8
USA	34.9	29.5	28.5	31.7	30.5	33.6	37.8	36.4	38.6	41.0
REST OF THE WORLD	70.5	63.3	62.4	61.7	62.4	62.7	62.7	60.9	59.9	59.5
TOTAL	66.3	59.4	57.9	57.5	57.2	58.2	58.9	56.6	56.3	57.1

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	90.8	76.0	72.4	71.9	73.1	75.6	73.9	75.0	71.3	72.5
REST OF EUROPE	55.6	38.5	29.4	22.2	21.1	36.4	51.9	59.0	67.3	70.0
USA	23.4	24.1	21.8	23.5	27.3	31.7	40.7	43.7	47.2	51.1
REST OF THE WORLD	62.1	52.4	53.3	53.4	55.7	56.3	56.0	55.7	55.1	55.9
TOTAL	57.9	48.8	47.4	46.8	48.5	50.2	52.4	53.6	54.9	57.3

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

SHORT HAUL AIRCRAFT FLEET (AT YEAR-END) : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	28.2	31.0	30.3	30.3	30.1	28.8	26.7	25.9	22.4	22.6
REST OF EUROPE	1.7	2.2	2.7	2.3	2.4	3.4	3.9	5.0	5.6	5.5
USA	12.5	13.3	13.2	15.3	16.5	18.6	22.5	24.1	26.2	27.8
REST OF THE WORLD	57.6	53.5	53.8	52.0	51.1	49.2	46.9	45.0	45.8	44.1

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	25.6	28.0	27.4	27.3	27.5	26.8	25.0	24.6	23.0	24.2
REST OF EUROPE	1.7	1.9	2.5	2.2	2.4	3.3	4.0	4.9	5.6	5.6
USA	12.3	12.1	12.5	14.8	15.1	17.0	20.0	21.6	23.2	24.0
REST OF THE WORLD	60.3	57.8	57.7	55.8	54.9	52.9	51.0	49.1	48.3	46.2

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	25.5	26.4	25.5	24.7	23.6	22.5	19.5	19.2	18.7	19.6
REST OF EUROPE	1.6	1.8	1.8	1.4	1.4	2.6	4.2	5.9	7.1	7.1
USA	9.4	12.7	12.2	14.3	17.4	21.2	28.8	32.7	35.1	36.5
REST OF THE WORLD	62.9	59.1	60.4	59.9	57.6	53.3	47.7	42.2	39.4	36.7

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

MEDIUM HAUL AIRCRAFT FLEET (AT YEAR-END) : ABSOLUTE FIGURES

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	727	779	785	798	813	840	847	903	988	1,120
REST OF EUROPE	185	234	241	239	235	231	251	271	299	322
USA	1,731	2,182	2,300	2,391	2,625	2,808	3,020	3,144	3,368	3,642
REST OF THE WORLD	957	1,356	1,444	1,507	1,540	1,558	1,613	1,676	1,765	1,884
TOTAL	3,600	4,551	4,770	4,935	5,213	5,437	5,731	5,994	6,420	6,968

SEATS (X 1,000)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	90.6	104.0	106.1	108.2	110.9	115.9	118.9	127.2	139.0	156.7
REST OF EUROPE	20.5	26.1	27.7	26.8	27.3	27.1	29.9	32.5	36.5	40.6
USA	250.9	319.7	337.0	350.8	384.4	407.9	438.8	455.5	490.0	532.2
REST OF THE WORLD	121.9	187.9	203.5	217.0	225.1	231.7	240.6	253.0	267.5	286.6
TOTAL	483.9	637.8	674.3	702.8	747.6	782.7	828.1	868.3	933.1	1,016.0

CONSTANT VALUE (MIO 1988 ECU) (*)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	9,905	9,311	12,389	13,922	15,345	17,517	18,225	14,489	13,762	15,226
REST OF EUROPE	2,496	2,370	3,234	3,346	3,731	4,033	4,605	3,942	3,753	4,160
USA	29,256	27,726	35,297	39,447	45,867	52,578	56,486	44,047	40,318	42,421
REST OF THE WORLD	14,645	18,068	24,165	29,090	32,364	36,609	38,191	30,340	26,233	26,710
TOTAL	56,293	57,460	75,066	85,816	97,295	110,751	117,506	92,829	84,066	88,518

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

MEDIUM HAUL AIRCRAFT FLEET (AT YEAR-END) : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	20.2	17.1	16.5	16.2	15.6	15.4	14.8	15.1	15.4	16.1
REST OF EUROPE	5.1	5.1	5.1	4.8	4.5	4.2	4.4	4.5	4.7	4.6
USA	48.1	47.9	48.2	48.4	50.4	51.6	52.7	52.5	52.5	52.3
REST OF THE WORLD	26.6	29.8	30.3	30.5	29.5	28.7	28.1	28.0	27.5	27.0

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	18.7	16.3	15.7	15.4	14.8	14.8	14.4	14.6	14.9	15.4
REST OF EUROPE	4.2	4.1	4.1	3.8	3.7	3.5	3.6	3.7	3.9	4.0
USA	51.8	50.1	50.0	49.9	51.4	52.1	53.0	52.5	52.5	52.4
REST OF THE WORLD	25.2	29.5	30.2	30.9	30.1	29.6	29.1	29.1	28.7	28.2

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	17.6	16.2	16.5	16.2	15.8	15.8	15.5	15.6	16.4	17.2
REST OF EUROPE	4.4	4.1	4.3	3.9	3.8	3.6	3.9	4.2	4.5	4.7
USA	52.0	48.3	47.0	46.0	47.1	47.5	48.1	47.4	48.0	47.9
REST OF THE WORLD	26.0	31.4	32.2	33.9	33.3	33.1	32.5	32.7	31.2	30.2

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

MEDIUM HAUL AIRCRAFT FLEET (AT YEAR-END) : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	49.4	38.4	36.7	34.6	34.4	34.6	33.2	32.0	31.1	30.4
REST OF EUROPE	19.5	19.7	19.1	18.0	20.0	20.8	22.3	22.5	19.7	21.7
USA	3.5	3.7	4.1	4.4	4.5	5.1	6.2	7.1	6.9	6.8
REST OF THE WORLD	24.5	22.1	21.9	23.7	24.6	25.5	25.4	26.8	26.9	27.3
TOTAL	19.1	16.0	15.6	15.8	15.8	16.2	16.3	17.1	16.7	16.8

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	45.9	38.2	37.9	36.7	36.5	37.3	36.0	34.7	33.5	32.7
REST OF EUROPE	17.1	17.2	17.0	13.8	18.3	19.6	21.7	21.8	19.2	20.9
USA	2.2	3.3	3.9	4.3	4.4	4.8	5.8	6.6	6.4	6.7
REST OF THE WORLD	20.1	19.7	20.3	23.4	24.4	25.9	26.4	28.1	28.1	28.6
TOTAL	15.5	14.4	14.7	15.5	15.7	16.4	16.7	17.5	17.2	17.5

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	39.7	35.6	35.3	35.6	35.1	36.9	35.4	33.8	31.0	29.3
REST OF EUROPE	13.8	18.2	17.5	12.7	20.6	21.2	23.8	24.5	20.9	23.1
USA	1.7	3.5	4.2	4.5	4.9	5.7	7.6	9.1	8.9	9.9
REST OF THE WORLD	17.1	20.2	21.3	25.3	27.2	29.7	30.3	32.5	32.6	32.8
TOTAL	12.9	14.6	15.4	16.9	17.7	19.1	19.9	21.3	20.5	20.8

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

MEDIUM HAUL AIRCRAFT FLEET (AT YEAR-END) : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	52.1	41.2	38.7	35.3	34.0	33.1	30.1	28.3	28.6	29.1
REST OF EUROPE	5.2	6.3	6.2	5.5	5.7	5.5	6.0	6.0	5.5	6.0
USA	8.7	11.2	12.8	13.4	14.2	16.4	20.1	21.9	21.6	21.1
REST OF THE WORLD	34.0	41.3	42.4	45.7	46.1	45.1	43.8	43.9	44.2	43.9

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	55.4	43.2	40.4	36.4	34.5	33.7	31.0	29.0	29.1	28.9
REST OF EUROPE	4.7	4.9	4.7	3.4	4.3	4.1	4.7	4.7	4.4	4.8
USA	7.3	11.6	13.3	13.7	14.3	15.4	18.4	19.6	19.6	20.1
REST OF THE WORLD	32.6	40.3	41.5	46.5	46.9	46.8	46.0	46.7	46.9	46.2

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	53.9	39.6	37.8	34.1	31.4	30.5	27.6	24.8	24.8	24.3
REST OF EUROPE	4.7	5.1	4.9	2.9	4.5	4.0	4.7	4.9	4.6	5.2
USA	7.0	11.7	12.8	12.3	13.0	14.0	18.4	20.4	20.9	22.8
REST OF THE WORLD	34.4	43.7	44.6	50.7	51.2	51.3	49.4	49.9	49.7	47.7

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

LONG HAUL AIRCRAFT FLEET (AT YEAR-END) : ABSOLUTE FIGURES

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	371	360	323	310	302	289	300	317	326	317
REST OF EUROPE	60	62	60	58	62	62	68	68	68	69
USA	653	537	476	457	460	446	449	449	483	509
REST OF THE WORLD	508	685	734	730	736	746	741	757	773	800
TOTAL	1,592	1,644	1,593	1,555	1,560	1,543	1,558	1,591	1,650	1,695

SEATS (X 1,000)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	77.8	90.8	87.2	86.2	85.9	83.5	88.0	95.0	98.2	97.8
REST OF EUROPE	13.1	14.1	14.3	13.3	15.0	14.9	15.8	15.9	16.0	16.2
USA	138.6	129.0	120.3	116.1	119.6	119.0	120.4	119.7	128.2	134.4
REST OF THE WORLD	106.8	168.0	183.0	186.7	190.3	194.1	195.5	202.4	208.2	218.5
TOTAL	336.3	401.9	404.7	402.3	410.7	411.4	419.7	433.0	450.4	466.8

CONSTANT VALUE (MIO 1988 ECU) (*)

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	10,653	10,653	13,126	14,071	14,572	15,143	15,731	12,505	10,512	9,646
REST OF EUROPE	2,037	1,520	1,945	1,909	2,327	2,526	2,481	1,777	1,447	1,301
USA	17,635	11,925	13,375	13,196	14,360	14,974	13,950	9,979	7,725	6,822
REST OF THE WORLD	14,808	19,570	26,082	29,256	31,021	33,419	33,358	25,546	21,638	21,394
TOTAL	45,133	43,667	54,527	58,433	62,293	66,076	65,535	49,807	41,323	39,163

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

LONG HAUL AIRCRAFT FLEET (AT YEAR-END) : GEOGRAPHICAL BREAKDOWN (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	23.3	21.9	20.3	19.9	19.4	18.7	19.3	19.9	19.8	18.7
REST OF EUROPE	3.8	3.8	3.8	3.7	4.0	4.0	4.4	4.3	4.1	4.1
USA	41.0	32.7	29.9	29.4	29.5	28.9	28.8	28.2	29.3	30.0
REST OF THE WORLD	31.9	41.7	46.1	46.9	47.2	48.3	47.6	47.6	46.8	47.2

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	23.1	22.6	21.5	21.4	20.9	20.3	21.0	21.9	21.8	21.0
REST OF EUROPE	3.9	3.5	3.5	3.3	3.7	3.6	3.8	3.7	3.6	3.5
USA	41.2	32.1	29.7	28.9	29.1	28.9	28.7	27.6	28.5	28.8
REST OF THE WORLD	31.8	41.8	45.2	46.4	46.3	47.2	46.6	46.7	46.2	46.8

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	23.6	24.4	24.1	24.1	23.4	22.9	24.0	25.1	25.4	24.6
REST OF EUROPE	4.5	3.5	3.6	3.3	3.7	3.8	3.8	3.6	3.5	3.3
USA	39.1	27.3	24.5	22.6	23.1	22.7	21.3	20.0	18.7	17.4
REST OF THE WORLD	32.8	44.8	47.8	50.1	49.8	50.6	50.9	51.3	52.4	54.6

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

LONG HAUL AIRCRAFT FLEET (AT YEAR-END) : EC MARKET SHARE (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	15.1	10.0	10.8	10.6	10.3	12.1	11.3	10.7	11.3	11.7
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	3.1	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
TOTAL	4.5	2.4	2.3	2.3	2.1	2.4	2.3	2.3	2.4	2.3

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	7.5	4.3	4.4	4.2	4.0	4.7	4.2	3.9	4.2	4.2
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	1.7	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
TOTAL	2.3	1.0	1.0	0.9	0.9	1.0	0.9	0.9	0.9	0.9

VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	5.5	3.5	3.1	2.7	2.2	2.1	1.9	1.5	1.5	1.3
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	1.7	0.9	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.3

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

LONG HAUL AIRCRAFT FLEET (AT YEAR-END) : BREAKDOWN OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

UNITS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	77.8	92.3	94.6	94.3	93.9	94.6	94.4	94.4	94.9	94.9
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	22.2	7.7	5.4	5.7	6.1	5.4	5.6	5.6	5.1	5.1

SEATS

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	76.3	92.9	95.0	94.7	94.4	97.5	94.9	94.9	97.6	97.6
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	23.7	7.1	5.0	5.3	5.6	5.0	5.1	5.1	4.8	4.8

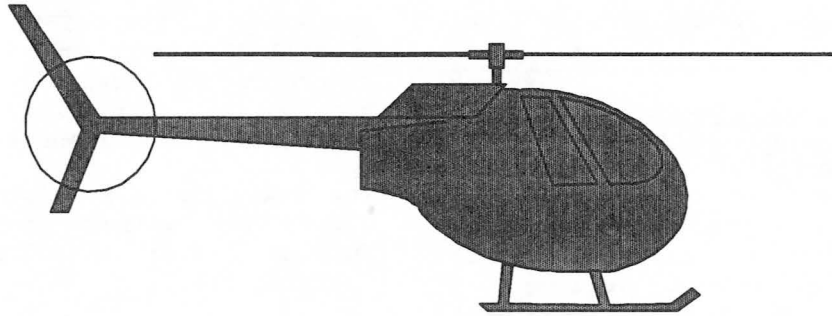
VALUE

	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EC	76.5	97.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
REST OF EUROPE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
USA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
REST OF THE WORLD	23.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

EC - DG III / SOURCE: AEROSPATIALE

(*) CONVERSION IN ECUS IMPLIES ROUNDING ERRORS

HELICOPTER AND LIGHT AIRCRAFT



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3

L I G H T A I R C R A F T

The data on the fleet of single-engine aircraft, twin-engine aircraft and executive jets are compiled by the "BUREAU VERITAS". The fleet of light aircraft (less than 15,000 kg) is broken down into three aircraft categories:

- single-engine aircraft: less than 5.7 Tons
- twin-engine aircraft...: less than 5.7 Tons
- executive jets.....: from 5.7 to 15 Tons

The data on the business aircraft fleet (in value and units) are prepared by I.T.A. (Air Transport Institute, Paris).

There is no definition of what is a "business aircraft". These terms relate, however, to the transport of passengers travelling for business reasons. In this study, a "business aircraft" is defined as follows:

- aircraft which is not used on scheduled routes,
- aircraft whose services are not marketed to the public (via travel agencies, for example), the available capacity (generally

limited) being bought for a sole use, linked to professional reasons. Therefore there is double counting of some large transport aircraft which are also included in the transport aircraft fleet (Chapter 2) and which are specially equipped for the V.I.P.,

- aircraft which is not specifically equipped for other activities.

The study is limited to "air taxi" (e.a. commercial transport on request), or to private transport for companies or institutions having an aircraft fleet for their own needs (governments, businesses, ...).

The study excludes piston aircraft, which by nature are rather designed for activities such as general aviation, leisure transport, training, ...).

The study distinguishes 3 main business aircraft categories:

- large jet aircraft whose initial use is not business transport but which are specially equipped for that use and which are called "V.I.P."

L I G H T A I R C R A F T

- small jet aircraft specially build for business transport (their high costs imply that they are seldom used on scheduled routes)
- turboprop aircraft which are used for air taxi.

For the last 2 categories, and because of the large number of aircraft models, the study excludes those of which less than 10 units were in service for business transport (less than 1% of the market).

The price of the business jets and turboprops is the standard price, e.a. the average selling price, excluding the cost of the equipment.

The value of the fleet is computed as follows:

- for aircraft which are no longer built, an average price is computed between the aircraft maximum price, its minimum price and its price after some improvements, between the first year of manufacturing and the last one.

- for aircraft still in production and put into service before 1985, the average price is estimated between the new aircraft price, weighted by a factor 2, its maximum price and its price after some improvements on aircraft of the first year of production.
- for aircraft in production since 1984, the price of new aircraft is used.

A list of business aircraft and their categories is given in the following pages.

BUSINESS AIRCRAFT OF EC DESIGN

Manufacturer	Model	Seats	Year	Value 1988 (Mio ECUS)
Business jets				
AIRBUS	A300-600		1984--	44.220
AEROSPATIALE	CARAVELLE		1958-73	1.450
	CORVETTE 100	6-12	1972-79	0.340
BRITISH AEROSPACE	BAC 111	79	1963-82	1.488
	HS-125-400/600	7-8	1962-76	0.580
	HS-125-700	8-10	1977-84	2.976
	HS-125-800	2+8	1984--	5.610
DASSAULT BREGUET	FALCON 10/100	2+7	1973--	2.550
	FALCON 20/200	2+9	1965--	4.600
	FALCON 50	2+10	1978--	7.650
	FALCON 900	2+12/14	1986--	16.156
FOKKER	F-28		1967--	4.600
MBB	HANSA JET	9-15	1966-73	0.297
SOCATA	PARIS JET	4	1958-64	0.127
Business Turboprops				
BRITISH AEROSPACE	JETSTREAM 31	2+18	1967--	1.870
	HS-748	40/50	1961--	2.125
SHORT	SKYVAN	19	1966--	0.553
FOKKER	F-27	40/60	1957-85	0.850
PILATUS	PORTER	8/11	1965--	0.238

BUSINESS AIRCRAFT OF US DESIGN

Manufacturer	Model	Seats	Year	Value 1988 (Mio ECUS)
Business jets				
BOEING	B-707/720		1957-79	1.785
	B-727		1963-84	3.082
	B-737		1967--	4.465
	B-747SP		1969--	17.000
MCDONNELL DOUGLAS	DC-8		1959--	1.063
	DC-9		1965-81	2.976
BEECH	BEECHJET (DIAMOND II)	2+7/9	1985--	3.146
CESSNA	CITATION 1	2+5/7	1972-85	0.820
	CITATION II	2+10	1978--	2.296
	CITATION III	2+13	1982--	4.252
GATES LEARJET	LEARJET 23/24/25	2+6	1964-85	0.806
	LEARJET 25/26	2+10	1974--	1.616
	LEARJET 55	2+10	1980--	2.870
GULFSTREAM	G II	10/19	1966-80	4.422
	G III/IV	3/19	1979--	11.200
LOCKHEED	JETSTAR 6/8/731	2+10	1960-73	0.688
	JETSTAR II	2+10	1976-80	1.785
ROCKWELL	JET COMMANDER	2+8	1965-68	0.225
	SABER 40	2+8	1964-74	0.350
	SABER 60/65/75/80	2+10	1967-78	1.150

BUSINESS AIRCRAFT OF US DESIGN (continued)

Manufacturer	Model	Seats	Year	Value 1988 (Mio ECUS)
Business Turboprops				
BEECH	BEECH 18	10	1946-66	0.038
	KING AIR 90	1+9	1964--	0.765
	KING AIR 100	1+10	1969-83	0.595
	KING AIR 200	1+10	1973--	1.275
	KING AIR 300	1+10	1984--	2.011
CESSNA	C-421	1+7	1967-85	0.136
	C-425/441	1+10	1980--	0.680
CONVAIR	CV 580/640	56	1960-69	0.680
FAIRCHILD	F-27/FH-227	40	1958-68	0.510
	MERLIN II	2+6	1967-68	0.170
	MERLIN III	2+9	1970-83	0.510
	MERLIN IV	2+15	1971--	1.105
GULFSTREAM/ ROCKWELL	TURBO-COMMANDER	11	1966-69	0.085
	COM 681/690	9	1970-79	0.226
	COM 900/980/840	1+7/10	1980-85	0.680
	COM 1000	1+7/10	1981-85	0.935
	GULFSTREAM I	12/26	1959-69	0.510
	GOSSE	7/11	1933-45	0.149
PIPER	P-31T/1	1+8	1974--	0.412
	P-31T-2/2XL	1+10	1981--	0.722
	P-42/400	11	1980--	1.190

BUSINESS AIRCRAFT OF OTHER DESIGN

Manufacturer	Model	Seats	Year	Value 1988 (Mio ECUS)
Business jets				
CANADAIR	CL-600	2+19	1980-83	4.720
	CL-601	2+19	1982--	10.204
IAI	WESTWIND 1/2	2+10	1965--	2.500
	ASTRA	2+10	1985--	4.677
MITSUBISHI	DIAMOND	9/11	1981-85	1.870
Business Turboprops				
DE HAVILLAND	TWIN OTTER	22	1965--	0.485
	DASH-7	54	1977--	2.550
	TURBO BEAVER	8	1948-68	0.047
EMBRAER	EMB-110	2+18	1973--	1.105
	EMB-120/121	2+9	1979--	4.252
MITSUBISHI	MU-2	9	1967-85	0.340
	MARQUISE	11	1979-85	0.765

EC-10 Light Aircraft Fleet (1988)

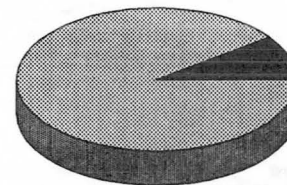
EC Design 55%



Other 45%

Single-Engine Aircraft

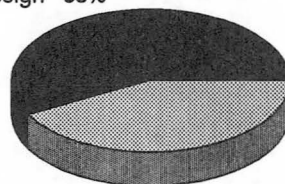
EC Design 10%



Other 90%

Twin-Engine Aircraft

EC Design 58%



Other 42%

Executive Jet

Source: Bureau Veritas

LIGHT AIRCRAFT FLEET : UNITS

1) SINGLE-ENGINE

	BE(*)	DK(*)	DE	FR	HE(*)	IR	IT	LX	NL	UK	EC 10	ES	PO	EC 12
1983	715	668	5,607	4,838	121	246	1,193	41	413	4,475	18,317	-	-	-
1984	652	690	5,546	4,756	130	218	1,201	43	395	4,548	18,179	-	-	-
1985	625	702	5,470	4,728	107	239	1,221	43	393	4,771	18,299	224	212	18,735
1986	599	679	5,488	4,846	107	249	1,235	43	408	4,745	18,399	-	232	-
1987	635	685	5,578	4,913	109	196	1,239	43	439	5,081	18,918	-	237	-
1988	635	685	5,739	4,932	105	273	1,246	50	435	4,246	18,346	842	251	19,439

2) TWIN-ENGINE

	BE(*)	DK(*)	DE	FR	HE(*)	IR	IT	LX	NL	UK	EC 10	ES	PO	EC 12
1983	68	127	695	571	10	40	227	5	69	973	2,785	-	-	-
1984	72	144	670	559	5	38	231	6	59	937	2,721	-	-	-
1985	51	183	652	561	10	28	234	7	63	958	2,747	31	31	2,809
1986	76	190	674	619	10	37	262	9	82	776	2,735	-	33	-
1987	67	195	718	623	11	31	265	8	71	784	2,773	-	34	-
1988	67	195	738	691	6	38	273	8	89	756	2,861	137	35	3,033

3) EXECUTIVE JET

	BE(*)	DK(*)	DE	FR	HE(*)	IR	IT	LX	NL	UK	EC 10	ES	PO	EC 12
1983	11	8	58	50	6	2	49	0	4	131	319	-	-	-
1984	4	8	58	52	0	2	54	1	4	84	267	-	-	-
1985	3	14	48	65	0	3	64	1	13	72	283	0	1	284
1986	6	10	48	71	0	3	80	0	5	70	293	-	0	-
1987	4	10	70	73	0	2	86	1	7	75	328	-	0	-
1988	4	10	62	87	0	3	109	1	7	79	362	21	1	384

EC - DG III / SOURCE: BUREAU VERITAS

(*) ESTIMATE: BELGIUM AND DENMARK (1988), GREECE (1986)

LIGHT AIRCRAFT FLEET : BREAKDOWN INTO COUNTRIES (AS % OF TOTAL EC)

1) SINGLE-ENGINE

	BE	DK	DE	FR	HE	IR	IT	LX	NL	UK	ES	PO
1983	3.9	3.6	30.6	26.4	0.7	1.3	6.5	0.2	2.3	24.4	-	-
1984	3.6	3.8	30.5	26.2	0.7	1.2	6.6	0.2	2.2	25.0	-	-
1985	3.4	3.8	29.9	25.8	0.6	1.3	6.7	0.2	2.1	26.1	1.2	1.2
1986	3.3	3.7	29.8	26.3	0.6	1.4	6.7	0.2	2.2	25.8	-	1.3
1987	3.4	3.6	29.5	26.0	0.6	1.0	6.5	0.2	2.3	26.9	-	1.3
1988	3.5	3.7	31.3	26.9	0.6	1.5	6.8	0.3	2.4	23.1	4.6	1.4

2) TWIN-ENGINE

	BE	DK	DE	FR	HE	IR	IT	LX	NL	UK	ES	PO
1983	2.4	4.6	25.0	20.5	0.4	1.4	8.2	0.2	2.5	34.9	-	-
1984	2.6	5.3	24.6	20.5	0.2	1.4	8.5	0.2	2.2	34.4	-	-
1985	1.9	6.7	23.7	20.4	0.4	1.0	8.5	0.3	2.3	34.9	1.1	1.1
1986	2.8	6.9	24.6	22.6	0.4	1.4	9.6	0.3	3.0	28.4	-	1.2
1987	2.4	7.0	25.9	22.5	0.4	1.1	9.6	0.3	2.6	28.3	-	1.2
1988	2.3	6.8	25.8	24.2	0.2	1.3	9.5	0.3	3.1	26.4	4.8	1.2

3) EXECUTIVE JET

	BE	DK	DE	FR	HE	IR	IT	LX	NL	UK	ES	PO
1983	3.4	2.5	18.2	15.7	1.9	0.6	15.4	0.0	1.3	41.1	-	-
1984	1.5	3.0	21.7	19.5	0.0	0.7	20.2	0.4	1.5	31.5	-	-
1985	1.1	4.9	17.0	23.0	0.0	1.1	22.6	0.4	4.6	25.4	0.0	0.4
1986	2.0	3.4	16.4	24.2	0.0	1.0	27.3	0.0	1.7	23.9	-	0.0
1987	1.2	3.0	21.3	22.3	0.0	0.6	26.2	0.3	2.1	22.9	-	0.0
1988	1.1	2.8	17.1	24.0	0.0	0.8	30.1	0.3	1.9	21.8	5.8	0.3

EC - DG III / SOURCE: BUREAU VERITAS

(*) ESTIMATE: BELGIUM AND DENMARK (1988), GREECE (1986)

LIGHT AIRCRAFT FLEET : MARKET SHARE OF EC-BUILT AIRCRAFT (AS % OF TOTAL)

1) SINGLE-ENGINE

	BE(*)	DK(*)	DE	FR	HE(*)	IR	IT	LX	NL	UK	EC 10	ES	PO	EC 12
1983	36.6	27.2	59.5	67.9	14.0	49.2	56.6	31.7	14.5	39.8	53.1	-	-	-
1984	38.7	26.8	60.0	68.0	36.2	35.8	56.5	27.9	10.1	52.2	56.2	-	-	-
1985	38.1	26.1	59.9	67.8	36.4	56.5	55.4	30.2	14.5	48.6	55.4	28.1	24.5	54.8
1986	37.9	22.2	60.0	72.8	26.2	54.2	54.6	51.2	15.2	51.4	57.4	-	27.6	-
1987	38.7	19.7	59.0	71.2	16.5	46.9	54.5	51.2	15.3	53.4	56.9	-	27.8	-
1988	38.7	19.7	67.4	71.6	19.0	34.8	52.2	48.0	15.6	34.4	55.0	-	27.1	-

2) TWIN-ENGINE

	BE(*)	DK(*)	DE	FR	HE(*)	IR	IT	LX	NL	UK	EC 10	ES	PO	EC 12
1983	23.5	10.2	8.9	14.7	40.0	20.0	24.7	0.0	14.5	19.0	15.7	-	-	-
1984	20.8	9.7	9.0	8.9	80.0	18.4	25.5	0.0	3.4	20.3	14.7	-	-	-
1985	7.8	16.4	8.6	7.5	90.0	14.3	26.1	0.0	6.3	19.5	14.5	9.7	0.0	14.2
1986	7.9	10.0	8.2	6.1	90.0	18.9	24.8	11.1	8.5	14.9	11.8	-	15.2	-
1987	3.0	11.3	7.7	5.8	63.6	19.4	24.9	0.0	8.5	13.1	10.9	-	14.7	-
1988	3.0	11.3	7.6	5.5	0.0	18.4	24.5	0.0	10.1	11.8	10.1	-	14.3	-

3) EXECUTIVE JET

	BE(*)	DK(*)	DE	FR	HE(*)	IR	IT	LX	NL	UK	EC 10	ES	PO	EC 12
1983	18.2	62.5	37.9	66.0	0.0	50.0	61.2	-	50.0	82.4	63.6	-	-	-
1984	25.0	50.0	34.5	67.3	-	50.0	64.8	100.0	50.0	81.0	62.5	-	-	-
1985	33.3	28.6	43.8	73.8	-	66.7	57.8	100.0	30.8	77.8	61.5	-	0.0	61.3
1986	0.0	40.0	29.2	81.7	-	66.7	51.2	-	60.0	75.7	59.7	-	-	-
1987	0.0	40.0	27.1	80.8	-	50.0	47.7	100.0	57.1	69.3	55.2	-	-	-
1988	0.0	40.0	41.9	80.5	-	66.7	39.4	100.0	57.1	75.9	58.0	-	0.0	-

EC - DG III / SOURCE: BUREAU VERITAS

(*) ESTIMATE: BELGIUM AND DENMARK (1988), GREECE (1986)

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : TOTAL (IN NUMBER)

UNITS

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	890	290	363	385	693	374	10,435	167	13,597
1987	1,051	305	380	407	759	393	10,301	202	13,798
1988	1,199	360	405	414	860	437	10,149	243	14,067

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	6.5	2.1	2.7	2.8	5.1	2.8	76.7	1.2
1987	7.6	2.2	2.8	2.9	5.5	2.8	74.7	1.5
1988	8.5	2.6	2.9	2.9	6.1	3.1	72.1	1.7

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	27.8	14.8	23.7	20.8	2.7	11.5	9.6	13.2	11.3
1987	26.3	14.8	23.2	20.6	2.9	11.2	9.9	15.8	11.7
1988	26.0	16.4	21.5	18.8	2.6	10.5	10.2	14.0	11.9

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	16.0	2.8	5.6	5.2	1.2	2.8	64.9	1.4
1987	17.1	2.8	5.4	5.2	1.4	2.7	63.4	2.0
1988	18.6	3.5	5.2	4.7	1.3	2.7	61.9	2.0

EC - DG III / SOURCE: ITA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : TOTAL (IN VALUE)

MIO ECUS

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	1,811.0	660.0	806.6	1,278.9	1,091.9	576.4	19,394.3	322.2	25,941.2
1987	1,806.3	572.9	722.7	1,242.8	1,016.8	500.7	17,328.1	363.2	23,553.5
1988	2,167.2	802.4	777.3	1,224.2	1,044.0	546.9	17,569.8	420.6	24,552.3

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	7.0	2.5	3.1	4.9	4.2	2.2	74.8	1.2
1987	7.7	2.4	3.1	5.3	4.3	2.1	73.6	1.5
1988	8.8	3.3	3.2	5.0	4.3	2.2	71.6	1.7

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	47.8	31.5	33.4	26.2	4.1	23.9	21.3	34.4	23.5
1987	45.6	35.3	33.7	31.2	5.0	23.2	21.8	38.9	24.4
1988	47.8	39.3	32.7	30.0	5.0	21.3	23.8	38.4	26.4

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	14.2	3.4	4.4	5.5	0.7	2.3	67.7	1.8
1987	14.3	3.5	4.2	6.8	0.9	2.0	65.8	2.5
1988	16.0	4.9	3.9	5.7	0.8	1.8	64.5	2.5

EC - DG III / SOURCE: ITA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : TOTAL (IN NUMBER)

UNITS

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	20	45	188	34	218	2	12	124	1	26	2	218
1987	21	57	218	48	255	1	13	169	2	22	3	242
1988	27	59	225	59	315	1	13	195	2	28	7	268

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	2.2	5.1	21.1	3.8	24.5	0.2	1.3	13.9	0.1	2.9	0.2	24.5
1987	2.0	5.4	20.7	4.6	24.3	0.1	1.2	16.1	0.2	2.1	0.3	23.0
1988	2.3	4.9	18.8	4.9	26.3	0.1	1.1	16.3	0.2	2.3	0.6	22.4

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	8.9	16.0	26.5	36.7	0.0	25.0	32.3	100.0	26.9	0.0	33.5
1987	0.0	8.8	14.7	37.5	35.3	0.0	23.1	26.6	100.0	27.3	0.0	31.0
1988	3.7	8.5	16.0	40.7	32.7	0.0	7.7	22.1	50.0	25.0	14.3	33.6

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	1.6	12.1	3.6	32.4	0.0	1.2	16.2	0.4	2.8	0.0	29.6
1987	0.0	1.8	11.6	6.5	32.6	0.0	1.1	16.3	0.7	2.2	0.0	27.2
1988	0.3	1.6	11.5	7.7	33.0	0.0	0.3	13.8	0.3	2.2	0.3	28.8

EC - DG III / SOURCE: IATA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : TOTAL (IN VALUE)

MIO ECUS

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	44.4	63.7	324.7	54.3	463.2	3.9	21.4	344.1	8.6	60.1	1.4	421.1
1987	37.8	63.0	310.9	79.6	437.4	1.3	30.8	390.0	19.5	47.1	1.4	387.6
1988	54.5	63.2	323.4	100.9	566.9	1.3	39.9	462.7	16.8	55.5	8.1	473.9

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	2.5	3.5	17.9	3.0	25.6	0.2	1.2	19.0	0.5	3.3	0.1	23.3
1987	2.1	3.5	17.2	4.4	24.2	0.1	1.7	21.6	1.1	2.6	0.1	21.5
1988	2.5	2.9	14.9	4.7	26.2	0.1	1.8	21.3	0.8	2.6	0.4	21.9

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	17.1	33.9	42.9	60.0	0.0	25.0	60.0	100.0	59.4	0.0	44.5
1987	0.0	13.8	31.5	60.9	61.3	0.0	13.0	48.6	100.0	63.9	0.0	40.5
1988	8.4	13.6	36.7	68.2	63.2	0.0	7.5	46.7	96.0	61.2	56.5	42.9

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	1.3	12.7	2.7	32.1	0.0	0.6	23.9	1.0	4.1	0.0	21.6
1987	0.0	1.1	11.9	5.9	32.6	0.0	0.5	23.0	2.4	3.7	0.0	19.1
1988	0.4	0.8	11.5	6.6	34.6	0.0	0.3	20.8	1.6	3.3	0.4	19.6

EC - DG III / SOURCE: ITA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : V.I.P. (IN NUMBER)

UNITS

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	6	5	15	31	1	7	68	1	134
1987	7	4	17	34	1	7	64	3	137
1988	5	4	14	33	1	6	66	2	131

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	4.5	3.7	11.2	23.1	0.7	5.2	50.7	0.7
1987	5.1	2.9	12.4	24.8	0.7	5.1	46.7	2.2
1988	3.8	3.1	10.7	25.2	0.8	4.6	50.4	1.5

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	0.0	20.0	20.0	0.0	0.0	0.0	1.5	0.0	3.7
1987	14.3	0.0	17.6	5.9	0.0	0.0	1.6	0.0	5.1
1988	20.0	0.0	0.0	6.1	0.0	0.0	1.5	0.0	3.1

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	0.0	20.0	60.0	0.0	0.0	0.0	20.0	0.0
1987	14.3	0.0	42.9	28.6	0.0	0.0	14.3	0.0
1988	25.0	0.0	0.0	50.0	0.0	0.0	25.0	0.0

EC - DG III / SOURCE: IATA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : V.I.P. (IN VALUE)

MIO ECUS

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	23.6	18.5	43.3	176.3	6.6	33.0	259.4	4.1	564.8
1987	21.8	14.4	40.9	243.3	5.6	28.2	206.3	10.1	570.6
1988	15.1	12.3	32.7	224.2	4.5	21.2	191.9	6.2	507.9

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	4.2	3.3	7.7	31.2	1.2	5.8	45.9	0.7
1987	3.8	2.5	7.2	42.6	1.0	4.9	36.2	1.8
1988	3.0	2.4	6.4	44.1	0.9	4.2	37.8	1.2

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	0.0	9.3	12.0	0.0	0.0	0.0	0.7	0.0	1.5
1987	7.0	0.0	11.2	37.4	0.0	0.0	0.7	0.0	17.3
1988	9.6	0.0	0.0	39.4	0.0	0.0	0.8	0.0	18.0

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	0.0	20.0	60.0	0.0	0.0	0.0	20.0	0.0
1987	1.5	0.0	4.6	92.3	0.0	0.0	1.5	0.0
1988	1.6	0.0	0.0	96.8	0.0	0.0	1.6	0.0

EC - DG III / SOURCE: ITA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : V.I.P. (IN NUMBER)

UNITS

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0	0	0	0	0	0	0	0	0	0	0	6
1987	0	0	0	0	1	0	0	0	0	0	0	6
1988	0	0	0	0	1	0	0	0	0	0	0	4

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
1987	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	85.7
1988	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

EC - DG III / SOURCE: IATA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : V.I.P. (IN VALUE)

MIO ECUS

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.6
1987	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	20.3
1988	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	13.6

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
1987	0.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	93.0
1988	0.0	0.0	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	90.4

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	-	-	-	-	-	-	-	-	-	-	-	-
1987	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

EC - DG III / SOURCE: IATA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : JETS = V.I.P. + OTHER JETS (IN NUMBER)

UNITS

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	429	135	140	216	186	192	4,626	63	5,987
1987	494	142	150	218	216	205	4,679	79	6,183
1988	572	179	160	212	254	237	4,676	89	6,379

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	7.2	2.3	2.3	3.6	3.1	3.2	77.3	1.1
1987	8.0	2.3	2.4	3.5	3.5	3.3	75.7	1.3
1988	9.0	2.8	2.5	3.3	4.0	3.7	73.3	1.4

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	52.2	27.4	50.7	32.4	7.5	20.8	20.9	33.3	24.1
1987	50.8	27.5	48.7	33.9	7.9	20.0	21.2	39.2	24.6
1988	49.7	30.2	45.0	31.6	6.7	18.1	21.5	37.1	24.7

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	15.5	2.6	4.9	4.8	1.0	2.8	67.0	1.5
1987	16.5	2.6	4.8	4.9	1.1	2.7	65.4	2.0
1988	18.0	3.4	4.6	4.3	1.1	2.7	63.8	2.1

EC - DG III / SOURCE: IATA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : JETS = V.I.P. + OTHER JETS (IN VALUE)

MIO ECUS

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	1,282.3	510.1	553.0	1,105.4	418.2	418.7	13,861.7	218.1	18,367.5
1987	1,276.7	440.1	500.1	1,074.9	403.0	365.8	12,838.2	260.8	17,159.6
1988	1,606.8	664.7	549.0	1,048.3	445.2	414.3	13,430.4	302.5	18,461.2

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	7.0	2.8	3.0	6.0	2.3	2.3	75.5	1.2
1987	7.4	2.6	2.9	6.3	2.3	2.1	74.8	1.5
1988	8.7	3.6	3.0	5.7	2.4	2.2	72.7	1.6

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	63.8	39.4	45.7	29.6	10.2	32.4	29.6	50.4	32.6
1987	61.9	44.8	46.1	35.6	12.1	31.3	29.3	53.9	33.0
1988	62.0	46.7	44.1	34.3	11.2	27.8	30.9	53.1	34.6

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	13.7	3.4	4.2	5.5	0.7	2.3	68.5	1.8
1987	13.9	3.5	4.1	6.7	0.9	2.0	66.4	2.5
1988	15.6	4.9	3.8	5.6	0.8	1.8	65.0	2.5

EC - DG III / SOURCE: ITA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : JETS = V.I.P. + OTHER JETS (IN NUMBER)

UNITS

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	5	15	65	17	102	1	8	95	1	15	0	105
1987	8	16	76	27	110	0	9	119	2	10	0	117
1988	9	18	77	33	128	0	9	138	1	13	2	144

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	1.2	3.5	15.2	4.0	23.8	0.2	1.9	22.1	0.2	3.5	0.0	24.5
1987	1.6	3.2	15.4	5.5	22.3	0.0	1.8	24.1	0.4	2.0	0.0	23.7
1988	1.6	3.1	13.5	5.8	22.4	0.0	1.6	24.1	0.2	2.3	0.3	25.2

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	26.7	30.8	52.9	74.5	0.0	37.5	42.1	100.0	40.0	0.0	61.9
1987	0.0	31.3	28.9	66.7	77.3	0.0	33.3	36.1	100.0	50.0	0.0	58.1
1988	11.1	27.8	33.8	72.7	77.3	0.0	11.1	29.7	100.0	46.2	50.0	54.9

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	1.8	8.9	4.0	33.9	0.0	1.3	17.9	0.4	2.7	0.0	29.0
1987	0.0	2.0	8.8	7.2	33.9	0.0	1.2	17.1	0.8	2.0	0.0	27.1
1988	0.4	1.8	9.2	8.5	34.9	0.0	0.4	14.4	0.4	2.1	0.4	27.8

EC - DG III / SOURCE: IATA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : JETS = V.I.P. + OTHER JETS (IN VALUE)

MIO ECUS

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	8.0	36.7	181.0	40.6	341.0	2.5	17.2	316.6	8.6	47.6	0.0	282.6
1987	8.2	28.0	174.4	68.1	309.3	0.0	26.6	349.5	19.5	35.5	0.0	257.5
1988	24.6	29.3	187.9	87.4	408.8	0.0	35.9	419.6	16.2	43.9	6.5	346.7

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.6	2.9	14.1	3.2	26.6	0.2	1.3	24.7	0.7	3.7	0.0	22.0
1987	0.6	2.2	13.7	5.3	24.2	0.0	2.1	27.4	1.5	2.8	0.0	20.2
1988	1.5	1.8	11.7	5.4	25.4	0.0	2.2	26.1	1.0	2.7	0.4	21.6

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	29.6	46.6	57.4	81.1	0.0	31.3	65.2	100.0	74.4	0.0	59.3
1987	0.0	31.0	45.3	71.3	86.3	0.0	15.0	54.1	100.0	84.1	0.0	56.1
1988	18.7	29.3	53.5	78.7	87.4	0.0	8.3	51.4	100.0	76.8	71.1	53.0

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	1.3	10.3	2.8	33.8	0.0	0.7	25.2	1.1	4.3	0.0	20.5
1987	0.0	1.1	10.0	6.1	33.8	0.0	0.5	23.9	2.5	3.8	0.0	18.3
1988	0.5	0.9	10.1	6.9	35.8	0.0	0.3	21.6	1.6	3.4	0.5	18.4

EC - DG III / SOURCE: ITA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : TURBOPROPS (IN NUMBER)

UNITS

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	461	155	223	169	507	182	5,809	104	7,610
1987	557	163	230	189	543	188	5,622	123	7,615
1988	627	181	245	202	606	200	5,473	154	7,688

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	6.1	2.0	2.9	2.2	6.7	2.4	76.3	1.4
1987	7.3	2.1	3.0	2.5	7.1	2.5	73.8	1.6
1988	8.2	2.4	3.2	2.6	7.9	2.6	71.2	2.0

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	5.0	3.9	6.7	5.9	1.0	1.6	0.6	1.0	1.2
1987	4.5	3.7	6.5	5.3	0.9	1.6	0.6	0.8	1.3
1988	4.5	2.8	6.1	5.4	0.8	1.5	0.6	0.6	1.3

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	24.2	6.3	15.8	10.5	5.3	3.2	33.7	1.1
1987	26.0	6.3	15.6	10.4	5.2	3.1	32.3	1.0
1988	28.3	5.1	15.2	11.1	5.1	3.0	31.3	1.0

EC - DG III / SOURCE: IATA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : TURBOPROPS (IN VALUE)

MIO ECUS

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	528.7	149.9	253.6	173.5	673.7	157.7	5,532.6	104.1	7,573.7
1987	529.7	132.8	222.6	167.9	613.8	134.8	4,489.8	102.4	6,393.9
1988	560.4	137.7	228.3	175.9	598.8	132.6	4,139.4	118.0	6,091.1

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	7.0	2.0	3.3	2.3	8.9	2.1	73.0	1.4
1987	8.3	2.1	3.5	2.6	9.6	2.1	70.2	1.6
1988	9.2	2.3	3.7	2.9	9.8	2.2	68.0	1.9

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA	WORLD
1986	8.8	4.5	6.6	4.5	0.4	1.4	0.4	1.1	1.4
1987	6.3	3.8	5.6	3.5	0.3	1.3	0.4	0.8	1.2
1988	7.1	3.4	5.4	4.5	0.3	1.3	0.5	0.7	1.5

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	AFRICA	ASIA	SOUTH AMERICA	CENTRAL AMERICA	NORTH AMERICA	AUSTRALASIA
1986	43.2	6.3	15.6	7.3	2.2	2.1	22.3	1.0
1987	42.1	6.4	15.7	7.4	2.3	2.1	22.8	1.1
1988	44.2	5.2	13.7	8.8	2.0	1.8	23.3	0.9

EC - DG III / SOURCE: ITA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : TURBOPROPS (IN NUMBER)

UNITS

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	15	30	123	17	116	1	4	29	0	11	2	113
1987	13	41	142	21	145	1	4	50	0	12	3	125
1988	18	41	148	26	187	1	4	57	1	15	5	124

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	3.3	6.5	26.7	3.7	25.2	0.2	0.9	6.3	0.0	2.4	0.4	24.5
1987	2.3	7.4	25.5	3.8	26.0	0.2	0.7	9.0	0.0	2.2	0.5	22.4
1988	2.9	6.5	23.6	4.1	29.8	0.2	0.6	9.1	0.2	2.4	0.8	19.8

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	0.0	8.1	0.0	3.4	0.0	0.0	0.0	0.0	9.1	0.0	7.1
1987	0.0	0.0	7.0	0.0	3.4	0.0	0.0	4.0	0.0	8.3	0.0	5.6
1988	0.0	0.0	6.8	0.0	2.1	0.0	0.0	3.5	0.0	6.7	0.0	8.9

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	0.0	43.5	0.0	17.4	0.0	0.0	0.0	0.0	4.3	0.0	34.8
1987	0.0	0.0	40.0	0.0	20.0	0.0	0.0	8.0	0.0	4.0	0.0	28.0
1988	0.0	0.0	35.7	0.0	14.3	0.0	0.0	7.1	0.0	3.6	0.0	39.3

EC - DG III / SOURCE: ITA

BUSINESS AIRCRAFT FLEET (AT YEAR-END) : TURBOPROPS (IN VALUE)

MIO ECUS

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	36.4	27.0	143.8	13.7	122.2	1.3	4.3	27.5	0.0	12.5	1.4	138.5
1987	29.6	35.0	136.5	11.5	128.1	1.3	4.2	40.5	0.0	11.6	1.4	130.1
1988	29.9	33.9	135.5	13.4	158.1	1.3	4.1	43.1	0.7	11.6	1.7	127.2

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	6.9	5.1	27.2	2.6	23.1	0.2	0.8	5.2	0.0	2.4	0.3	26.2
1987	5.6	6.6	25.8	2.2	24.2	0.2	0.8	7.6	0.0	2.2	0.3	24.6
1988	5.3	6.0	24.2	2.4	28.2	0.2	0.7	7.7	0.1	2.1	0.3	22.7

MARKET SHARE WON BY EC-BUILT BUSINESS AIRCRAFT (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	0.0	17.9	0.0	1.0	0.0	0.0	0.0	0.0	2.4	0.0	14.1
1987	0.0	0.0	13.8	0.0	0.9	0.0	0.0	1.2	0.0	2.1	0.0	9.8
1988	0.0	0.0	13.5	0.0	0.6	0.0	0.0	1.1	0.0	2.0	0.0	15.5

BREAKDOWN OF EC-BUILT BUSINESS AIRCRAFT FLEET INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1986	0.0	0.0	55.0	0.0	2.5	0.0	0.0	0.0	0.0	0.6	0.0	41.8
1987	0.0	0.0	56.3	0.0	3.6	0.0	0.0	1.5	0.0	0.7	0.0	37.9
1988	0.0	0.0	46.1	0.0	2.4	0.0	0.0	1.2	0.0	0.6	0.0	49.7

EC - DG III / SOURCE: ITA

C I V I L H E L I C O P T E R S

The figures on the civil and para-public helicopter fleet are provided by AEROSPATIALE.

The data on the commercial helicopter fleet (in value and units) are prepared by I.T.A. (Air Transport Institute, Paris).

The study includes the "civil helicopters". Therefore some helicopters used by public authorities are included while they may also be included in the military helicopters fleet given in chapter 4.

The analysis covers the following geographical areas:

- EC
- Other Europe: Austria, Cyprus, Finland, Gibraltar, Greenland, Iceland, Liechtenstein, Malta, Monaco, Norway, Sweden, Switzerland, Turkey, Yugoslavia
- USA
- Rest of the world

Aviation Data Wichita is the source, except Bureau Veritas for the EC.

The value of the civil helicopter fleet is computed as follows:

- for helicopters which are no longer built, an average price is computed between the helicopter maximum price, its minimum price and its price after some improvements, between the first year of manufacturing and the last one.
- for helicopters still in production, the average price is estimated between the new helicopter price, weighted by a factor 2, and its maximum price, its minimum price and its price after some improvements on helicopters of the first year of production.
- for helicopters in production since 1985, the price of new helicopter is used.

A list of commercial helicopters covered by the study is given in the following pages.

HELICOPTERS OF EC DESIGN

Manufacturer	Model		Seats	Year	Value 1988 (Mio ECUS)
AEROSPATIALE	Lama	SA315B	5	1971--	0.290
	Alouette III	SA316	7	1966-81	0.204
	Alouette II	SA318C	5	1969-75	0.083
	Alouette III	SA319	7	1974-76	0.204
	Puma	SA330J	18-22	1974-80	1.500
	SuperPuma	SA332C	23	1982--	2.892
	SuperPuma	SA332L	22	1982--	3.912
	Gazelle	SA341G	5	1972-80	0.153
	Ecureuil	AS350	6	1978--	0.302
	Ecureuil/2	AS355	6	1981--	0.586
	Dauphin	SA360	14	1976-80	0.467
	Dauphin/2	SA365	14	1977-81	0.781
	Dauphin/2	SA365N	14	1981-	1.700
	AGUSTA	A 109A		8	1975--
MBB	BO-105		5	1973--	0.574
	BK-117		11	1983--	1.191
WESTLAND	WG-30 (all series)		20	1983--	2.381
	WESSEX 60		19	1965--	0.425

HELICOPTERS OF US DESIGN

Manufacturer	Model	Seats	Year	Value 1988 (Mio ECUS)
AGUSTA BELL	A-204/205	10	1965-67	0.253
	A-206B	5	1966-77	0.266
	A-212	15	1971---	1.264
	A-412	15	1981---	1.851
BELL	47 * (series)	3-4	1957-73	0.033
	204B	10	1965-67	0.253
	205A	15	1968-80	0.425
	Jet Ranger 206 A,B	5	1966---	0.266
	Long Range 206L	7	1975---	0.375
	B-212	15	1971---	1.264
	B-214B	16	1976-81	1.016
	B-214ST	20	1982---	3.783
	B-222	8-10	1980---	1.016
B-412	15	1981---	1.951	
BOEING VERTOL	B-107	28	1961-65	4.440
	B-234	47	1981---	12.120
ENSTRÖM	F-28 (series)	3	1966--	0.070
	F-280	3	1974--	0.085
FAIRCHILD	FH-1100	5	1966-72	0.085
HILLER	UH-12 (series)	3-4	1959---	0.096
HUGHES (MCDD)	269/300	2-3	1961---	0.059
	369/500	7	1969--	0.293
ROBINSON	R-22 (series)	2	1979--	0.055
SIKORSKY	S-55	12	1949-61	0.049
	S-58	20	1953-77	0.306
	S-61	30	1968-79	1.610
	S-62	12	1960-70	0.095
	S-64	3-5	1972--	4.594
	S-76A	14	1979--	2.063

* Agusta Bell 47 are included in Bell 47.

CIVIL AND PARA-PUBLIC HELICOPTER FLEET (AT YEAR-END - UNITS)

	EC				USA		
	TOTAL	AS % OF TOTAL			TOTAL	AS % OF TOTAL	
		DESIGN ORIGIN		LICENCE (1)		DESIGN ORIGIN	
		EC	USA			EC	USA
1960	176	22.7	77.3	48.3	-	-	-
1965	406	33.0	67.0	30.0	1,854	0.6	99.4
1970	598	27.6	72.4	32.4	2,980	1.1	98.9
1975	1,023	32.7	67.3	22.0	4,803	3.3	96.7
1980	1,477	36.4	63.6	23.0	7,259	6.3	93.7
1981	1,614	37.7	62.3	20.8	7,735	7.4	92.6
1982	1,709	38.4	61.6	20.6	7,947	8.5	91.5
1983	1,775	40.5	59.5	20.1	8,192	8.7	91.3
1984	1,829	42.2	57.8	19.5	8,469	9.1	90.9
1985	1,840	43.5	56.5	18.5	8,540	9.7	90.3
1986	1,918	43.8	56.2	17.2	8,577	10.6	89.4
1987	2,067	44.1	55.9	16.3	8,409	11.0	89.0
1988	2,308	42.7	57.3	14.8	8,210	11.2	88.8

(1) HELICOPTERS OF US DESIGN MANUFACTURED IN THE EC UNDER LICENCE (AS % OF TOTAL)

EC - DG III / SOURCE: AEROSPATIALE

EC CIVIL AND PARA-PUBLIC HELICOPTER FLEET (AT YEAR-END - UNITS)

1) FLEET

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1960	10	0	14	0	82	0	0	32	0	3	0	35
1965	2	6	75	16	148	2	2	49	0	7	3	96
1970	13	11	121	31	155	4	6	66	0	17	1	173
1975	26	22	247	59	227	8	6	85	0	29	9	305
1980	26	37	334	68	383	18	13	133	0	26	6	433
1981	28	44	356	76	407	19	15	158	0	31	8	472
1982	26	41	368	83	451	23	14	181	0	31	7	484
1983	28	36	383	91	467	22	13	201	0	36	9	489
1984	25	34	399	92	487	25	14	218	0	39	8	488
1985	24	37	400	86	475	25	16	224	0	41	8	504
1986	27	37	425	99	496	25	15	227	0	42	11	514
1987	25	40	436	119	555	31	16	264	0	33	14	534
1988	27	43	430	131	628	31	22	315	0	32	22	627

EC - DG III / SOURCE: AEROSPATIALE

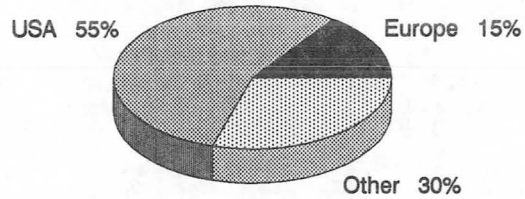
EC CIVIL AND PARA-PUBLIC HELICOPTER FLEET (AT YEAR-END - UNITS)

2) MARKET SHARE WON BY EC-PRODUCTS (AS %)

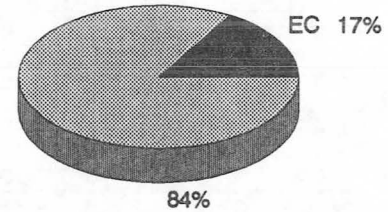
	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1960	0.0	-	7.1	-	41.5	-	-	6.3	-	100.0	-	0.0
1965	50.0	0.0	40.0	0.0	61.5	0.0	0.0	10.2	-	57.1	100.0	0.0
1970	38.5	0.0	30.6	9.7	63.9	50.0	33.3	7.6	-	41.2	0.0	2.9
1975	34.6	0.0	37.7	25.4	67.0	75.0	33.3	16.5	-	65.5	11.1	7.9
1980	34.6	0.0	44.6	30.9	60.1	33.3	7.7	43.6	-	53.8	0.0	11.5
1981	32.1	0.0	48.6	32.9	62.9	31.6	6.7	43.0	-	54.8	0.0	11.2
1982	34.6	0.0	46.2	32.5	62.1	30.4	7.1	42.0	-	48.4	0.0	14.7
1983	32.1	5.6	43.9	35.2	63.0	40.9	15.4	40.8	-	50.0	11.1	20.9
1984	36.0	5.9	45.1	41.3	63.0	32.0	14.3	41.7	-	48.7	12.5	23.6
1985	41.7	8.1	45.5	40.7	67.2	32.0	18.8	41.5	-	48.8	12.5	25.0
1986	40.7	10.8	44.0	44.4	66.1	24.0	20.0	45.4	-	42.9	18.2	26.3
1987	44.0	10.0	45.0	47.9	63.8	19.4	18.8	49.6	-	39.4	28.6	24.9
1988	40.7	11.6	47.2	50.4	59.1	19.4	18.2	48.3	-	31.3	59.1	23.1

EC - DG III / SOURCE: AEROSPATIALE

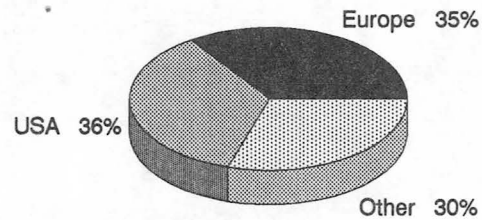
Civil Helicopters Fleet (in value - 1988)



Breakdown By Area



EC Market Share



Breakdown of EC Markets

Source: ITA

CIVIL HELICOPTER FLEET (AT YEAR-END) (UNITS)

FLEET

	EC	REST OF EUROPE	USA	REST OF THE WORLD	TOTAL
1984	1,751	424	9,115	4,038	15,328
1985	1,836	489	9,348	4,414	16,087
1986	1,938	548	9,577	4,802	16,865
1987	2,023	582	9,479	5,088	17,172
1988	2,323	641	9,332	5,542	17,838

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	USA	REST OF THE WORLD
1984	11.4	2.8	59.5	26.3
1985	11.4	3.0	58.1	27.4
1986	11.5	3.2	56.8	28.5
1987	11.8	3.4	55.2	29.6
1988	13.0	3.6	52.3	31.1

MARKET SHARE WON BY EC-BUILT HELICOPTERS (AS % OF TOTAL)

	EC	REST OF EUROPE	USA	REST OF THE WORLD	TOTAL
1984	38.5	21.7	10.0	13.7	14.6
1985	39.7	26.0	10.2	14.5	15.2
1986	40.7	27.2	10.4	15.7	15.9
1987	40.1	28.0	10.6	16.5	16.5
1988	39.5	28.2	10.6	18.3	17.4

BREAKDOWN OF EC-BUILT HELICOPTERS INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	USA	REST OF THE WORLD
1984	30.2	4.1	40.9	24.8
1985	29.8	5.2	39.0	26.1
1986	29.3	5.5	37.0	28.1
1987	28.7	5.8	35.7	29.8
1988	29.6	5.8	31.9	32.7

EC - DG III / SOURCE: ITA

CIVIL HELICOPTER FLEET (AT YEAR-END) (UNITS)

FLEET

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK	EC
1984	20	33	397	51	419	22	12	247	1	33	11	505	1,751
1985	18	41	412	66	435	22	13	259	1	35	12	522	1,836
1986	20	39	434	69	459	25	16	282	0	39	14	541	1,938
1987	20	31	443	83	482	28	17	308	0	32	18	561	2,023
1988	20	33	439	132	592	34	24	348	0	31	18	652	2,323

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1984	0.3	2.3	14.8	2.6	13.6	0.7	1.0	9.4	0.0	3.7	0.1	51.4
1985	0.3	3.3	15.4	2.9	12.3	0.4	0.8	10.1	0.0	4.1	0.1	50.2
1986	0.4	3.2	16.1	2.9	11.9	0.6	1.0	11.3	0.0	4.2	0.1	48.2
1987	0.4	2.4	17.6	3.3	12.2	0.6	1.0	12.7	0.0	3.0	0.3	46.5
1988	0.4	2.4	16.8	4.2	14.3	0.7	1.3	13.7	0.0	2.7	0.2	43.4

MARKET SHARE WON BY EC-BUILT HELICOPTERS (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK	EC
1984	5.0	9.1	46.3	49.0	52.3	36.4	16.7	37.2	100.0	39.4	9.1	25.0	38.5
1985	11.1	9.8	46.6	48.5	55.4	31.8	23.1	37.5	100.0	42.9	8.3	25.7	39.7
1986	15.0	7.7	46.3	47.8	55.3	32.0	25.0	41.5	-	43.6	14.3	27.0	40.7
1987	15.0	12.9	46.3	47.0	53.3	28.6	23.5	43.2	-	34.4	22.2	25.7	40.1
1988	15.0	12.1	47.2	42.4	52.5	26.5	20.8	44.5	-	32.3	22.2	23.5	39.5

EC - DG III / SOURCE: ITA

CIVIL HELICOPTER FLEET (AT YEAR-END) (VALUE)

FLEET

	EC	REST OF EUROPE	USA	REST OF THE WORLD	TOTAL
1984	1,284.4	353.5	3,655.4	1,975.0	7,268.3
1985	1,245.6	347.1	3,861.5	2,061.8	7,516.0
1986	1,196.0	353.8	3,325.0	2,224.2	7,099.0
1987	1,016.9	311.1	3,012.5	2,082.6	6,423.0
1988	1,072.1	322.7	2,898.6	2,259.8	6,553.2

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	USA	REST OF THE WORLD
1984	17.7	4.9	50.3	27.2
1985	16.6	4.6	51.4	27.4
1986	16.8	5.0	46.8	31.3
1987	15.8	4.8	46.9	32.4
1988	16.4	4.9	44.2	34.5

MARKET SHARE WON BY EC-BUILT HELICOPTERS (AS % OF TOTAL)

	EC	REST OF EUROPE	USA	REST OF THE WORLD	TOTAL
1984	53.1	27.7	16.6	21.6	24.9
1985	53.1	37.3	16.3	22.2	25.0
1986	56.6	35.8	19.4	24.7	28.1
1987	56.5	35.5	19.3	25.9	28.1
1988	58.6	36.0	19.5	29.5	30.1

BREAKDOWN OF EC-BUILT HELICOPTERS INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

	EC	REST OF EUROPE	USA	REST OF THE WORLD
1984	37.6	5.4	33.5	23.5
1985	35.2	6.9	33.5	24.4
1986	33.9	6.3	32.3	27.5
1987	31.8	6.1	32.2	29.8
1988	31.8	5.9	28.6	33.7

EC - DG III / SOURCE: ITA

CIVIL HELICOPTER FLEET (AT YEAR-END) (VALUE)

FLEET

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK	EC
1984	3.6	29.9	190.1	33.7	174.8	8.6	12.7	121.3	0.3	47.5	1.5	660.4	1,284.4
1985	4.3	41.7	191.5	35.7	153.8	5.0	10.0	125.5	0.4	51.3	1.5	624.9	1,245.6
1986	4.6	38.0	192.4	35.0	142.2	7.6	12.2	135.4	0.0	50.4	1.7	576.5	1,196.0
1987	4.0	24.5	178.6	33.6	124.3	6.2	10.3	128.9	0.0	30.5	2.6	473.3	1,016.9
1988	4.0	25.6	179.9	44.6	153.3	7.2	14.0	146.5	0.0	29.0	2.6	465.5	1,072.1

BREAKDOWN INTO GEOGRAPHICAL ZONES (AS % OF TOTAL)

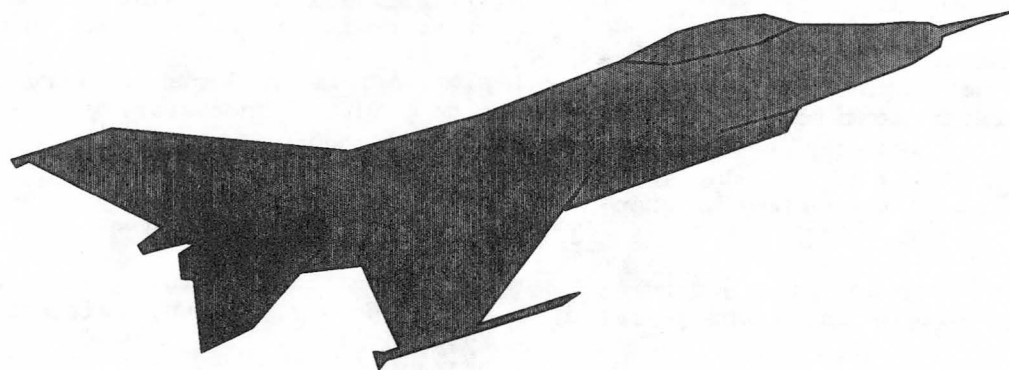
	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1984	0.3	2.3	14.8	2.6	13.6	0.7	1.0	9.4	0.0	3.7	0.1	51.4
1985	0.3	3.3	15.4	2.9	12.3	0.4	0.8	10.1	0.0	4.1	0.1	50.2
1986	0.4	3.2	16.1	2.9	11.9	0.6	1.0	11.3	0.0	4.2	0.1	48.2
1987	0.4	2.4	17.6	3.3	12.2	0.6	1.0	12.7	0.0	3.0	0.3	46.5
1988	0.4	2.4	16.8	4.2	14.3	0.7	1.3	13.7	0.0	2.7	0.2	43.4

MARKET SHARE WON BY EC-BUILT HELICOPTERS (AS % OF TOTAL)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK	EC
1984	7.7	38.3	67.8	61.4	83.6	40.8	7.5	59.5	100.0	38.7	25.5	42.1	53.1
1985	44.2	25.2	67.7	64.1	83.8	71.2	9.1	57.6	100.0	38.7	24.7	43.3	53.1
1986	44.1	27.0	70.0	64.6	82.7	43.5	13.4	59.1	-	39.4	38.6	49.3	56.6
1987	40.8	35.7	68.0	63.4	79.9	57.4	14.3	60.9	-	28.4	42.4	48.4	56.5
1988	42.5	33.0	71.7	64.9	77.8	58.1	15.8	60.4	-	25.9	43.1	51.0	58.6

EC - DG III / SOURCE: ITA

MILITARY AIRCRAFT



CHAPTER

4

M I L I T A R Y A I R C R A F T

Data relating to military aircraft cover the number of military aircraft in service in the world. Military aircraft in long term storage have been excluded. Warsaw Pact and PRC fleets have been excluded throughout, however military aircraft exported by these countries have been included in the relevant category under "Other" design origin.

The criteria used to define a military aircraft is that it is not registered on a civil register. Therefore a commercial aircraft used by public authorities may be included while it is already included in the civil transport aircraft fleets presented in Chapters 2 or 3.

Military aircraft are broken down according to: category, design origin and geographical areas.

Military aircraft are broken down into the following categories:

- interceptor/air superiority
- fighter/attack
- attack
- bomber/interdictor
- AEW/Maritime Patrol/Electronics
- Advanced Trainer/Light Attack
- Elementary/Basic Trainer
- Transport - tactical/Strategic/Tanker

- Transport - VIP/liaison/communication
- helicopters

Flight refuelling tankers have been included in the tactical/strategic transport category since the majority have dual transport role.

Military aircraft are also broken down according to design origin: EC, USA and other.

Design origin reflects country of original design and not necessarily the country of production and/or assembly.

Military aircraft are broken down into the following geographical areas:

- EC
- EUR: Austria, Cyprus, Finland, Iceland, Malta, Norway, Sweden, Switzerland, Turkey, Yugoslavia
- USA
- Canada
- Latin America and Caribbean
- Middle East and North Africa
- Africa (south of Sahara)
- Republic of South Africa
- Asia
- Australasia

A list of military aircraft is given in the following pages.

MILITARY AIRCRAFT OF EC DESIGN

Manufacturer	Model	Average value 1987 (Mio ECUS) (*)
AERITALIA	G-222	17.20 - 20.40
AERMACCHI	MB-339	5.00 - 7.50
AEROSPATIALE	Epsilon TB-30	0.55 - 0.91
	SuperPuma SA332	7.50 - 9.10
	Gazelle SA341	0.75 - 1.58
	Dauphin SA365	2.30 - 2.74
AERMACCHI	A-129	4.75 - 6.92
BRITISH AEROSPACE	Hawk	7.60 - 9.90
CASA	C-101 Aviojet	5.06 - 7.10
	C-212 Aviocar	3.15 - 4.15
DASSAULT-BREGUET	Mirage 2000	25.30 - 34.40
	Mirage F.1	16.20 - 28.68
	Alpha Jet	8.31 - 11.10
MBB	BO-105	1.38 - 1.54
PANAVIA	Tornado	39.55 - 58.50
SIAI-MARCHETTI	S-211	2.37 - 2.65
	SF-260 TP	0.60 - 0.72
WESTLAND	Lynx	4.07 - 5.54

* Average programme unit costs in 1987 including fly-away cost of aircraft, initial spares, ground support equipment, R&D levies and other associated costs divided by the number of aircraft procured.

MILITARY AIRCRAFT OF US DESIGN

Manufacturer	Model		Average value 1987 (Mio ECUS) (*)
BELL	Cobra		6.92 - 10.50
BOEING VERTOL	CH-47C	Chinook	14.70 - 17.50
GENERAL DYNAMICS	F-16	Fighting Falcon	21.60 - 31.50
GRUMMAN	A-6E	Intruder	28.00 - 31.00
	E-2C	Hawkeye	45.50 - 62.10
	F-14	Tomcat	35.20 - 45.30
LOCKHEED	C-130	Hercules	19.10 - 29.25
	P-3C	Orion	37.00 - 50.00
MCDONNELL DOUGLAS	AH-64	Apache	7.60 - 11.62
	F-15	Eagle	36.25 - 43.90
	F/A-18	Hornet	32.40 - 41.50
SIKORSKY	CH-53E	Super Stallion	15.00 - 23.00
	UH-60	Blackhawk	6.40 - 9.90
	SH-60	Seahawk	17.00 - 21.90

* Average programme unit costs in 1987 including fly-away cost of aircraft, initial spares, ground support equipment, R&D levies and other associated costs divided by the number of aircraft procured.

MILITARY AIRCRAFT OF OTHER DESIGN

Manufacturer	Model		Average value 1987 (Mio ECUS) (*)
DE HAVILLAND	DHC-5	Buffalo	9.00 - 10.00
	DHC-6	Twin Otter	2.10 - 2.40
EMBRAER	EMB-312	Tucano	1.46 - 2.02
IAI	Arava		4.07 - 4.20
	Kfir		12.25 - 13.25
PILATUS	PC-7	Turbo-trainer	1.45 - 2.02
	PC-9		2.22 - 2.57
SAAB	JAS39	GRIPEN	31.25 - 46.27

* Average programme unit costs in 1987 including fly-away cost of aircraft, initial spares, ground support equipment, R&D levies and other associated costs divided by the number of aircraft procured.

MILITARY AIRCRAFT FLEET (AT YEAR-END)

INTERCEPTOR/AIR SUPERIORITY (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	189	39	1,374	62	0	53	0	0	0	0	1,717
1980	101	0	1,226	40	0	194	0	0	24	0	1,585
1985	118	0	1,275	0	0	344	0	0	100	0	1,837
1986	139	0	1,314	0	0	335	0	0	161	0	1,949
1987	163	0	1,355	0	0	387	0	0	205	0	2,110

FIGHTER/ATTACK (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	3,362	1,673	3,904	301	566	2,243	287	78	3,687	103	16,204
1980	3,108	1,550	3,043	173	544	2,690	420	98	3,214	91	14,931
1985	2,475	1,458	3,206	154	668	3,332	527	95	3,282	80	15,277
1986	2,239	1,466	3,250	186	675	3,135	466	94	3,328	90	14,929
1987	2,288	1,529	3,239	199	674	3,298	487	92	3,387	80	15,273

ATTACK (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	422	90	2,825	0	83	647	6	9	253	31	4,366
1980	600	140	2,867	0	172	667	5	6	369	28	4,854
1985	476	211	2,862	0	169	743	33	6	515	22	5,037
1986	466	211	2,716	0	169	741	33	6	624	22	4,988
1987	457	195	2,633	0	168	726	40	6	685	22	4,932

EC - DG III

EUR - NON-EC EUROPE..... MOY - MIDDLE EAST AND NORTH AFRICA ASA - ASIA
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MILITARY AIRCRAFT FLEET (AT YEAR-END)

BOMBER/INTERDICTOR (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	306	2	925	0	122	139	29	9	217	36	1,785
1980	241	4	781	0	70	122	18	7	187	32	1,462
1985	593	0	699	0	52	89	4	7	152	24	1,620
1986	647	0	729	0	51	100	0	7	125	23	1,682
1987	652	0	758	0	51	94	0	7	121	22	1,705

AEW/MARITIME PATROL/ELECTRONICS (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	323	25	1,415	63	84	16	0	7	222	37	2,192
1980	220	30	1,138	46	88	12	1	7	227	43	1,812
1985	200	34	1,206	36	88	8	2	0	257	26	1,857
1986	192	42	1,206	36	82	11	4	0	255	26	1,854
1987	177	47	1,171	36	80	15	4	0	256	26	1,812

ADVANCED TRAINER/LIGHT ATTACK (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	794	470	1,637	209	416	418	127	188	609	101	4,969
1980	813	406	1,406	172	476	451	134	212	563	99	4,732
1985	942	608	1,288	145	493	515	214	217	586	97	5,105
1986	920	575	1,241	143	524	482	185	216	573	95	4,954
1987	929	527	1,153	143	525	519	198	215	549	94	4,852

EC - DG III

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MILITARY AIRCRAFT FLEET (AT YEAR-END)

ELEMENTARY/BASIC TRAINER (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,761	531	1,766	25	1,280	745	245	75	1,513	68	8,009
1980	1,474	520	1,310	25	1,016	736	318	70	1,209	54	6,732
1985	1,410	496	1,204	20	1,058	846	303	50	1,255	63	6,705
1986	1,299	467	1,201	20	1,124	958	306	49	1,361	69	6,854
1987	1,324	473	1,176	20	1,126	963	284	49	1,466	72	6,953

TRANSPORT - TACTICAL/STRATEGIC/TANKER (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	852	215	2,792	70	633	474	270	61	1,078	98	6,543
1980	679	160	2,181	59	604	444	300	51	708	95	5,281
1985	618	160	2,163	59	597	508	359	55	702	91	5,312
1986	603	145	2,186	61	626	506	338	56	737	83	5,341
1987	587	119	2,152	61	633	528	333	58	733	86	5,290

TRANSPORT - VIP/LIAISON/COMMUNICATION (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,116	328	3,029	46	921	345	306	98	1,083	29	7,301
1980	877	293	891	45	759	346	349	123	753	36	4,472
1985	730	235	945	29	881	380	395	83	784	35	4,497
1986	776	231	869	28	906	389	380	83	808	36	4,506
1987	759	252	780	31	921	367	382	82	849	35	4,458

EC - DG III

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MILITARY AIRCRAFT FLEET (AT YEAR-END)

HELICOPTERS (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	3,689	629	12,541	188	869	1,382	306	157	1,788	204	21,753
1980	3,703	711	10,609	181	782	2,087	419	156	2,189	172	21,009
1985	4,308	1,007	10,543	184	1,170	2,574	625	153	2,800	176	23,540
1986	4,238	1,025	10,756	184	1,244	2,642	649	152	2,940	176	24,006
1987	4,123	1,043	10,454	182	1,258	2,725	717	146	2,930	169	23,747

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MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : INTERCEPTOR/AIR SUPERIORITY (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	124	0	0	0	0	53	0	0	0	0	177
1980	71	0	0	0	0	30	0	0	0	0	101
1985	99	0	0	0	0	22	0	0	23	0	144
1986	120	0	0	0	0	4	0	0	40	0	164
1987	144	0	0	0	0	19	0	0	44	0	207

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	65	39	1,374	62	0	0	0	0	0	0	1,540
1980	30	0	1,226	40	0	100	0	0	24	0	1,420
1985	19	0	1,275	0	0	167	0	0	69	0	1,530
1986	19	0	1,314	0	0	175	0	0	101	0	1,609
1987	19	0	1,355	0	0	172	0	0	109	0	1,655

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	64	0	0	0	0	64
1985	0	0	0	0	0	155	0	0	8	0	163
1986	0	0	0	0	0	156	0	0	20	0	176
1987	0	0	0	0	0	196	0	0	52	0	248

EC - DG III

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MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : FIGHTER/ATTACK (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,441	416	0	0	165	397	32	66	465	103	3,085
1980	1,287	342	0	0	194	369	46	98	221	91	2,648
1985	1,064	248	0	0	245	552	44	95	237	75	2,560
1986	1,023	207	0	0	249	544	37	94	188	68	2,410
1987	988	206	0	0	246	521	41	92	187	47	2,328

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,879	673	3,904	269	166	653	26	12	1,554	0	9,136
1980	1,778	588	3,043	165	110	728	26	0	1,173	0	7,611
1985	1,368	650	3,194	154	119	807	21	0	1,152	5	7,470
1986	1,173	679	3,238	186	107	818	12	0	1,144	22	7,379
1987	1,257	758	3,214	199	109	879	12	0	1,146	33	7,607

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	42	584	0	32	235	1,193	229	0	1,668	0	3,983
1980	43	620	0	8	240	1,593	348	0	1,820	0	4,672
1985	43	560	12	0	304	1,973	462	0	1,893	0	5,247
1986	43	580	12	0	319	1,773	417	0	1,996	0	5,140
1987	43	565	25	0	319	1,898	434	0	2,054	0	5,338

EC - DG III

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MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : ATTACK (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	404	0	86	0	0	0	0	9	0	0	499
1980	540	0	70	0	12	11	0	6	18	0	657
1985	374	0	116	0	11	21	16	6	52	0	596
1986	366	0	73	0	11	22	16	6	64	0	558
1987	358	0	101	0	11	22	16	6	79	0	593

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	18	0	2,739	0	77	312	0	0	91	31	3,268
1980	60	0	2,797	0	92	269	0	0	100	28	3,346
1985	102	0	2,746	0	45	253	0	0	156	22	3,324
1986	100	0	2,643	0	45	253	0	0	187	22	3,250
1987	99	0	2,532	0	44	253	0	0	185	22	3,135

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0	90	0	0	6	335	6	0	162	0	599
1980	0	140	0	0	68	387	5	0	251	0	851
1985	0	211	0	0	113	469	17	0	307	0	1,117
1986	0	211	0	0	113	466	17	0	373	0	1,180
1987	0	195	0	0	113	451	24	0	421	0	1,204

EC - DG III

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MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : BOMBER/INTERDICTION (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	306	0	42	0	70	0	18	9	108	12	565
1980	241	0	17	0	59	0	13	7	87	12	436
1985	593	0	0	0	52	0	1	7	72	0	725
1986	647	0	0	0	51	6	0	7	45	0	756
1987	652	0	0	0	51	20	0	7	45	0	775

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0	0	883	0	52	0	0	0	9	24	968
1980	0	0	764	0	11	0	0	0	0	20	795
1985	0	0	699	0	0	0	0	0	0	24	723
1986	0	0	729	0	0	0	0	0	0	23	752
1987	0	0	758	0	0	0	0	0	0	22	780

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0	2	0	0	0	139	11	0	100	0	252
1980	0	4	0	0	0	122	5	0	100	0	231
1985	0	0	0	0	0	89	3	0	80	0	172
1986	0	0	0	0	0	94	0	0	80	0	174
1987	0	0	0	0	0	74	0	0	76	0	150

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MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : AEW/MARITIME PATROL/ELECTRONICS (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	225	0	0	0	0	0	0	7	14	0	246
1980	182	0	0	0	2	0	1	7	16	0	208
1985	173	0	41	0	2	0	1	0	21	0	238
1986	165	0	41	0	1	0	3	0	21	0	231
1987	149	0	41	0	0	0	3	0	21	0	214

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	98	25	1,415	32	84	6	0	0	190	37	1,887
1980	38	30	1,138	36	68	12	0	0	184	43	1,549
1985	27	30	1,165	36	69	8	0	0	194	26	1,555
1986	27	42	1,165	36	64	11	0	0	193	26	1,564
1987	28	47	1,130	36	63	15	0	0	201	26	1,546

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0	0	0	31	0	10	0	0	18	0	59
1980	0	0	0	10	18	0	0	0	27	0	55
1985	0	4	0	0	17	0	1	0	42	0	64
1986	0	0	0	0	17	0	1	0	41	0	59
1987	0	0	0	0	17	0	1	0	34	0	52

EC - DG IIII

EUR - NON-EC EUROPE..... MOY - MIDDLE EAST AND NORTH AFRICA ASA - ASIA
 CDN - CANADA..... AFR - AFRICA SOUTH OF SAHARA AUS - AUSTRALASIA
 LAT - LATIN AMERICA AND CARIBBEAN..... SAF - REPUBLIC OF SOUTH AFRICA

MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : ADVANCED TRAINER/LIGHT ATTACK (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	306	36	0	0	161	103	62	188	29	101	986
1980	498	38	0	0	218	112	74	212	26	99	1,277
1985	777	83	0	0	225	187	119	217	47	97	1,752
1986	772	82	0	0	227	182	113	216	42	95	1,729
1987	779	82	0	0	225	197	114	215	26	94	1,732

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	488	187	1,637	92	225	28	11	0	460	0	3,128
1980	315	130	1,406	70	226	12	10	0	360	0	2,529
1985	165	155	1,288	64	221	0	0	0	327	0	2,220
1986	148	126	1,241	64	252	0	0	0	309	0	2,140
1987	150	111	1,153	64	255	0	0	0	283	0	2,016

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0	247	0	117	30	287	54	0	120	0	855
1980	0	238	0	102	32	327	50	0	177	0	926
1985	0	370	0	81	47	328	95	0	212	0	1,133
1986	0	367	0	79	45	300	72	0	222	0	1,085
1987	0	334	0	79	45	322	84	0	240	0	1,104

EC - DG III

EUR - NON-EC EUROPE..... MOY - MIDDLE EAST AND NORTH AFRICA ASA - ASIA
 CDN - CANADA..... AFR - AFRICA SOUTH OF SAHARA AUS - AUSTRALASIA
 LAT - LATIN AMERICA AND CARIBBEAN..... SAF - REPUBLIC OF SOUTH AFRICA

MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : ELEMENTARY/BASIC TRAINER (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,051	145	0	0	34	194	109	0	118	0	1,651
1980	965	125	0	0	16	300	140	0	121	0	1,667
1985	973	98	0	0	44	332	147	0	139	0	1,733
1986	900	70	0	0	41	410	153	0	155	0	1,729
1987	928	69	0	0	41	408	152	0	188	0	1,786

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	478	120	1,766	25	948	100	86	75	779	20	4,397
1980	324	136	1,310	25	670	70	79	70	372	0	3,056
1985	260	137	1,204	20	539	70	64	50	289	0	2,633
1986	224	137	1,201	20	512	70	61	49	309	0	2,583
1987	222	143	1,176	20	474	70	49	49	292	0	2,495

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	232	266	0	0	298	451	50	0	616	48	1,961
1980	185	259	0	0	330	366	99	0	716	54	2,009
1985	177	261	0	0	475	444	92	0	827	63	2,339
1986	175	260	0	0	571	478	92	0	897	69	2,542
1987	174	261	0	0	611	485	83	0	986	72	2,672

EC - DG III

EUR - NON-EC EUROPE..... MOY - MIDDLE EAST AND NORTH AFRICA ASA - ASIA
 CDN - CANADA..... AFR - AFRICA SOUTH OF SAHARA AUS - AUSTRALASIA
 LAT - LATIN AMERICA AND CARIBBEAN..... SAF - REPUBLIC OF SOUTH AFRICA

MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : TRANSPORT - TACTICAL/STRATEGIC/TANKER (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	538	31	0	0	54	69	39	10	89	23	853
1980	469	31	0	0	83	61	59	10	105	27	845
1985	420	31	21	0	125	87	94	10	138	29	955
1986	404	31	25	0	130	78	80	9	150	20	927
1987	385	33	27	0	132	81	87	9	147	24	925

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	302	158	2,690	56	454	235	167	51	775	50	4,938
1980	198	94	2,128	43	332	247	144	41	398	46	3,671
1985	167	88	2,114	43	272	256	128	45	298	43	3,454
1986	169	73	2,150	45	228	262	118	47	271	44	3,407
1987	172	63	2,114	45	224	267	113	49	281	43	3,371

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	12	26	102	14	125	170	64	0	214	25	752
1980	12	35	53	16	189	136	97	0	205	22	765
1985	31	41	28	16	200	165	137	0	266	19	903
1986	30	41	11	16	268	166	140	0	316	19	1,007
1987	30	23	11	16	277	180	133	0	305	19	994

EC - DG III

EUR - NON-EC EUROPE..... MOY - MIDDLE EAST AND NORTH AFRICA ASA - ASIA
 CDN - CANADA..... AFR - AFRICA SOUTH OF SAHARA AUS - AUSTRALASIA
 LAT - LATIN AMERICA AND CARIBBEAN..... SAF - REPUBLIC OF SOUTH AFRICA

MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : TRANSPORT - VIP/LIAISON/COMMUNICATION (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	742	53	0	8	37	70	154	56	53	9	1,182
1980	673	33	0	7	39	105	170	62	45	6	1,140
1985	552	38	3	7	55	81	211	26	61	2	1,036
1986	564	38	3	7	58	89	198	26	63	3	1,049
1987	536	34	3	6	57	75	198	26	73	3	1,011

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	342	204	2,626	0	534	231	103	42	677	0	4,759
1980	186	195	881	0	445	199	134	30	418	0	2,488
1985	122	102	930	0	531	224	150	27	412	2	2,500
1986	157	98	854	0	553	227	154	27	420	2	2,492
1987	157	97	766	0	563	225	156	26	419	3	2,412

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	32	71	403	38	350	44	49	0	353	20	1,360
1980	18	65	10	38	275	42	45	31	290	30	844
1985	56	95	12	22	295	75	34	30	311	31	961
1986	55	95	12	21	295	73	28	30	325	31	965
1987	66	121	11	25	301	67	28	30	357	29	1,035

EC - DG III

EUR - NON-EC EUROPE..... MOY - MIDDLE EAST AND NORTH AFRICA ASA - ASIA
 CDN - CANADA..... AFR - AFRICA SOUTH OF SAHARA AUS - AUSTRALASIA
 LAT - LATIN AMERICA AND CARIBBEAN..... SAF - REPUBLIC OF SOUTH AFRICA

MILITARY AIRCRAFT FLEET (AT YEAR-END) - TYPE : HELICOPTERS (UNITS)

DESIGN ORIGIN : EUROPE

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,973	220	0	0	130	237	184	157	261	23	3,185
1980	2,159	261	0	0	203	396	219	156	466	23	3,883
1985	2,553	360	22	0	288	656	335	153	562	49	4,978
1986	2,524	379	50	0	331	679	338	152	571	49	5,073
1987	2,462	388	86	0	358	729	343	146	589	48	5,149

DESIGN ORIGIN : USA

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,716	372	12,541	188	624	790	77	0	1,259	181	17,748
1980	1,544	388	10,609	181	525	1,242	112	0	1,426	149	16,176
1985	1,755	573	10,521	184	746	1,412	167	0	1,842	127	17,327
1986	1,714	573	10,706	184	771	1,458	176	0	1,926	127	17,635
1987	1,661	571	10,368	182	755	1,464	177	0	1,891	121	17,190

DESIGN ORIGIN : OTHER

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0	37	0	0	115	355	45	0	268	0	820
1980	0	62	0	0	54	449	88	0	297	0	950
1985	0	74	0	0	136	506	123	0	396	0	1,235
1986	0	73	0	0	142	505	135	0	443	0	1,298
1987	0	84	0	0	145	532	197	0	450	0	1,408

EC - DG III

EUR - NON-EC EUROPE..... MOY - MIDDLE EAST AND NORTH AFRICA ASA - ASIA
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 LAT - LATIN AMERICA AND CARIBBEAN..... SAF - REPUBLIC OF SOUTH AFRICA

AVERAGE UNIT REPLACEMENT VALUE OF MILITARY AIRCRAFT IN SERVICE IN THE EC (MIO ECUS)

DESIGN ORIGIN : EUROPE

	I/AS	F/AT	ATT	B/IN	AEW	A/L T	E/B T	T/S/T	V/L/C	HEL
1975	4.86	4.25	5.46	16.19	12.78	2.30	0.57	6.87	0.63	0.58
1980	24.14	10.93	11.67	21.89	16.84	4.17	0.65	8.75	0.75	0.93
1985	36.41	23.78	26.72	39.73	39.61	9.30	1.44	15.43	2.35	2.33
1986	37.78	25.26	29.97	42.66	42.01	10.98	1.49	16.43	2.42	2.56
1987	39.83	26.58	36.16	45.78	46.60	11.41	1.52	18.27	2.69	2.69

DESIGN ORIGIN : USA

	I/AS	F/AT	ATT	B/IN	AEW	A/L T	E/B T	T/S/T	V/L/C	HEL
1975	4.71	5.08	5.12	-	16.21	2.51	0.44	6.94	0.15	1.23
1980	16.02	11.36	9.34	-	19.17	4.33	0.55	10.28	0.32	1.77
1985	42.21	27.16	29.11	-	64.78	8.88	1.05	22.77	1.86	5.91
1986	44.21	28.99	30.48	-	68.74	10.41	1.14	23.57	1.89	6.14
1987	46.31	30.20	32.32	-	76.56	10.63	1.15	24.30	1.94	6.54

DESIGN ORIGIN : OTHER

	I/AS	F/AT	ATT	B/IN	AEW	A/L T	E/B T	T/S/T	V/L/C	HEL
1975	-	5.51	-	-	-	-	0.29	3.63	0.18	-
1980	-	11.18	-	-	-	-	0.40	4.68	0.52	-
1985	-	29.98	-	-	-	-	1.03	9.98	2.22	-
1986	-	31.93	-	-	-	-	1.09	10.60	3.62	-
1987	-	34.30	-	-	-	-	1.21	11.20	3.68	-

EC - DG III

- I/AS...INTERCEPTOR/AIR SUPERIORITY.....
- F/AT...FIGHTER / ATTACK.....
- ATT...ATTACK.....
- B/IN...BOMBER / INTERDICTOR.....
- AEW...AEW / MARITIME PATROL / ELECTRONICS
- A/L T...ADVANCED TRAINER/LIGHT ATTACK
- E/B T...ELEMENTARY / BASIC TRAINER
- T/S/T...TRANSPORT - TACTICAL / STRATEGIC / TANKER
- V/L/C...TRANSPORT - VIP / LIAISON / COMMUNICATION
- HEL.....HELICOPTERS

MILITARY HELICOPTER FLEET IN THE EC AND USA AT YEAR-END (UNITS)

	EC				USA			
	TOTAL	AS % OF TOTAL			TOTAL	AS % OF TOTAL		
		DESIGN ORIGIN		LICENCE (1)		DESIGN ORIGIN		
		EC	USA			EC	USA	
1960	1,742	35.3	64.7	41.4	4,423	0.0	100.0	
1965	2,478	41.3	58.7	38.3	6,185	0.0	100.0	
1970	3,335	37.2	62.8	39.9	15,874	0.0	100.0	
1975	3,637	43.6	56.4	37.2	15,338	0.0	100.0	
1980	3,559	55.9	44.1	26.0	8,749	0.0	100.0	
1981	3,665	57.0	43.0	25.0	8,190	0.0	100.0	
1982	3,743	58.1	41.9	24.3	7,640	0.0	100.0	
1983	3,863	60.1	39.9	23.2	7,760	0.0	100.0	
1984	3,894	61.2	38.8	22.2	7,848	0.0	100.0	
1985	3,917	61.3	38.7	22.5	7,658	0.0	100.0	
1986	3,977	61.5	38.5	22.8	7,646	0.0	100.0	
1987	3,961	61.0	39.0	23.2	7,924	0.0	100.0	
1988	4,018	58.8	41.2	25.6	8,019	0.0	100.0	

(1) HELICOPTERS OF US DESIGN MANUFACTURED IN THE EC UNDER LICENCE (AS % OF TOTAL)

EC - DG III / SOURCE: AEROSPATIALE

MILITARY HELICOPTER FLEET IN THE EC AT YEAR-END (UNITS)

1) FLEET

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1960	10	14	243	27	801	7	0	98	0	49	2	491
1965	43	25	490	39	758	7	3	227	0	90	32	764
1970	80	17	765	75	734	55	3	352	0	98	126	1,030
1975	79	32	714	196	805	64	8	548	0	91	113	987
1980	80	35	701	253	812	141	9	495	0	124	62	847
1981	80	33	742	303	829	126	11	493	0	122	62	864
1982	80	29	831	311	847	122	11	506	0	120	62	824
1983	79	29	915	310	860	116	10	514	0	120	62	848
1984	79	29	932	312	903	116	10	515	0	118	62	818
1985	78	28	922	308	922	128	10	509	0	117	64	831
1986	74	28	913	305	937	142	15	528	0	117	87	831
1987	73	29	915	311	953	140	15	543	0	117	39	826
1988	69	28	913	322	929	140	15	584	0	118	42	858

EC - DG III / SOURCE: AEROSPATIALE

MILITARY HELICOPTER FLEET IN THE EC AT YEAR-END (UNITS)

2) MARKET SHARE WON BY EC-PRODUCTS (AS %)

	BE	DK	DE	ES	FR	HE	IR	IT	LU	NL	PO	UK
1960	100.0	35.7	65.8	44.4	38.3	0.0	-	0.0	-	16.3	100.0	22.6
1965	88.4	32.0	60.2	0.0	49.3	0.0	100.0	0.0	-	63.3	96.9	28.4
1970	90.0	47.1	33.5	0.0	61.6	0.0	100.0	0.0	-	85.7	99.2	23.2
1975	89.9	25.0	36.3	4.6	83.5	6.3	100.0	3.6	-	92.3	100.0	34.1
1980	93.8	37.1	40.4	12.6	100.0	2.8	100.0	1.0	-	100.0	100.0	67.3
1981	93.8	36.4	43.7	20.8	100.0	3.2	100.0	1.0	-	100.0	100.0	67.5
1982	93.8	27.6	49.8	28.0	100.0	3.3	100.0	1.0	-	100.0	100.0	65.9
1983	93.7	27.6	54.4	31.0	100.0	3.4	100.0	1.0	-	100.0	100.0	69.0
1984	93.7	27.6	55.3	31.4	100.0	3.4	100.0	1.0	-	100.0	100.0	71.9
1985	88.5	25.0	54.9	31.5	100.0	3.1	100.0	0.8	-	100.0	100.0	72.4
1986	93.2	25.0	54.5	31.8	100.0	2.8	100.0	3.2	-	100.0	100.0	71.8
1987	93.2	27.6	54.6	31.8	100.0	2.9	100.0	3.1	-	100.0	100.0	72.0
1988	92.8	25.0	56.8	33.5	100.0	2.9	100.0	7.0	-	100.0	100.0	59.9

EC - DG III / SOURCE: AEROSPATIALE

M I L I T A R Y A I R C R A F T

Data relating to military engines cover the number of turbine aircraft engines in military service in the world. Allowance has been made for spare engines held in reserve. Warsaw Pact and PRC fleets have been excluded throughout, however engines exported by these countries have been included in the relevant category under "Other" design origin.

Military engines are broken down according to: category of engines, design origin, and geographical areas.

Military engines are broken down into the following categories:

- Turbofan: above.....14 Tons (*)
- Turbofan: between.....7 and 14 Tons (*)
- Turbofan: between.....3 and 7 Tons (*)
- Turbofan: below.....3 Tons (*)
- Turbojet: between.....7 and 14 Tons (*)
- Turbojet: between.....3 and 7 Tons (*)
- Turbojet: below.....3 Tons (*)
- Turboprop
- Turboshaft

(*) Maximum thrust, including re-heat where applicable

Military engines are also broken down according to design origin: EC, USA and other.

Design origin reflects country of original design and not necessarily the country of production and/or assembly.

Military engines are also broken down according to manufacturer:

- CFM International,
- General Electric,
- Pratt & Whitney,
- Rolls-Royce,
- SNECMA,
- Turbo-Union,
- other.

Manufacturer reflects the company which originated the design (or has significantly redesigned /developed the engine) and not necessarily indicate production and/or assembly origin.

Military engines are broken down into the following geographical areas:

- EC
- EUR: Austria, Cyprus, Finland, Malta, Norway, Sweden, Switzerland, Turkey, Yugoslavia
- USA
- Canada
- Latin America and Caribbean
- Middle East and North Africa

M I L I T A R Y A I R C R A F T

- Africa (south of Sahara)
- Republic of South Africa
- Asia
- Australasia

A list of military engines is given in the following pages.

TURBINE AIRCRAFT ENGINES IN MILITARY SERVICE

	EC Design		USA Design		Other Design	
TURBOFANS	CFM INTL	CFM56 (*)	AVCO LYCOMING	ALF-502	IHI	F-3
	ROLLS-ROYCE	Conway M54H Pegasus RB-211 Spey Tay	GARRETT	ATF-3 TFE 731	IVCHENKO	AI-25
	R-R/TURBOMECA	Adour	GENERAL ELECTRIC	CF6 CF-34 (TF34) CF-700 F-101 F-404 TF-39	KUZNETOV	NK-8
	SNECMA	M53	PRATT & WHITNEY	F-100 JT-3D (TF33) JT-8D JT-9D TF-30	P&W CANADA	JT15D
	SNECMA/TURBOMECA	Larzac			SOLOVIEV	D20 D30
	TURBOMECA	Aubisque			TUMANSKY	R29 R33
	TURBO-UNION	RB-199				
TURBOJETS	DE HAVILLAND	Goblin	ALLISON	J-33 J-35	IHI	J-3
	HISPANO-SUIZA	Verdon	FAIRCHILD	J-44	INSTYTUT LOTNICTIVA	SO-3
	ROLLS-ROYCE	Avon Derwent Nene Olympus Orpheus Viper	GENERAL ELECTRIC	CJ-610 CJ-805 J-47 J-79 J-85	KLIMOV	VK-1
	SNECMA	Atar	PRATT & WHITNEY	J-48 J-52	KOLIEV	VD-7
					LYULKA	AL-7F AL-21F
					MIKULIN	AM-3

(*) EC/USA design

TURBINE AIRCRAFT ENGINES IN MILITARY SERVICE

	EC Design		USA Design		Other Design	
TURBOJETS (continued)	TURBOMECA	Mabore	PRATT & WHITNEY	J-57 J-58 J-75 JT12 (60)	MOTORLET	M701
			TELEDYNE	J-69	ORENDA	11
			WESTINGHOUSE	J-34	TUMANSKY	RD9 R13 RU19 R25 R31
			WRIGHT	J-65		
TURBOPROPS	NAPIER	Eland	ALLISON	250 501 (T56)	IVCHENKO	AI-20 AI-24
	ROLLS-ROYCE	Dart Mamba Tyne	AVCO LYCOMING	T53 LTP101	P&W CANADA	PT-6A (T74)
	TURBOMECA	Astazou Bastan	GARRETT	TPE331 (T76)	WALTER	M601
			GENERAL ELECTRIC	T-64		
TURBOSHAFTS	NAPIER	Gazelle	ALLISON	250 (T63)	GLUSHENKOV	GTD-3
	ROLLS-ROYCE	Gem Gnome Nimbus	AVCO LYCOMING	LTC4 LTS101 T-53 T-55	ISOTOV	GTD-350 TV-2 TV-3
	TURBOMECA	Arriel Artouste Astazou Makila Turmo	GENERAL ELECTRIC	T-58 T-64 T-700	LOTAREV	D136
			PRATT & WHITNEY	T-73	P&W CANADA	PT-6T (T400)
					SOLOVIEV	D25

MILITARY TURBINE ENGINES IN SERVICE AT YEAR-END - CATEGORY : TURBOFAN - MAXIMUM THRUST ABOVE 14 TONS (FLEET)

TOTAL (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0	0	372	0	0	51	0	0	0	0	423
1980	0	0	376	0	0	46	0	0	0	0	422
1985	14	0	512	0	0	28	0	0	0	0	554
1986	24	0	590	0	0	28	0	0	0	0	642
1987	24	0	673	0	4	32	0	0	0	0	733

MARKET SHARE OF ENGINES OF EC DESIGN ORIGIN (AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	-	-	0.0	-	-	0.0	-	-	-	-	0.0
1980	-	-	0.0	-	-	0.0	-	-	-	-	0.0
1985	100.0	-	0.0	-	-	17.9	-	-	-	-	3.4
1986	100.0	-	0.0	-	-	17.9	-	-	-	-	4.5
1987	100.0	-	0.0	-	0.0	28.1	-	-	-	-	4.5

EC - DG III

EUR - NON-EC EUROPE..... MOY - MIDDLE EAST AND NORTH AFRICA..... ASA - ASIA
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MILITARY TURBINE ENGINES IN SERVICE AT YEAR-END - CATEGORY : TURBOFAN - MAXIMUM THRUST OF 7 TO 14 TONS (FLEET)

TOTAL (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	769	160	5,911	25	15	271	0	0	5	60	7,216
1980	913	233	8,091	25	107	1,018	30	0	79	60	10,556
1985	2,519	364	10,997	180	208	1,632	77	0	566	93	16,636
1986	2,741	381	11,553	260	221	1,641	77	10	827	133	17,844
1987	2,963	426	13,072	298	239	2,104	149	20	1,013	158	20,442

MARKET SHARE OF ENGINES OF EC DESIGN ORIGIN (AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	87.6	0.0	17.9	0.0	0.0	1.8	-	-	0.0	0.0	24.1
1980	78.6	0.0	14.0	0.0	0.0	0.0	0.0	-	0.0	0.0	17.5
1985	81.8	0.0	10.8	0.0	0.0	0.0	0.0	-	7.1	0.0	19.8
1986	82.0	0.0	9.6	0.0	2.3	1.5	0.0	0.0	7.5	0.0	19.3
1987	80.7	0.0	8.8	0.0	6.3	3.6	0.0	0.0	6.6	0.0	18.1

MARKET SHARE OF ENGINES OF INTERNATIONAL DESIGN ORIGIN (EC / USA - AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	0.0	0.0
1980	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0
1985	0.9	0.0	7.1	0.0	0.0	0.3	0.0	-	0.5	0.0	4.9
1986	1.9	0.0	8.4	0.0	0.0	1.4	0.0	0.0	0.4	0.0	5.9
1987	1.7	0.0	8.9	0.0	0.0	3.1	0.0	0.0	0.3	0.0	6.3

EC - DG III

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MILITARY TURBINE ENGINES IN SERVICE AT YEAR-END - CATEGORY : TURBOFAN - MAXIMUM THRUST OF 3 TO 7 TONS (FLEET)

TOTAL (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,083	0	381	0	23	24	20	23	68	5	1,627
1980	1,410	0	1,622	0	78	63	37	15	405	5	3,635
1985	1,076	0	2,328	23	120	119	96	15	595	13	4,385
1986	1,075	0	2,302	23	130	124	95	15	636	13	4,413
1987	1,024	0	2,263	26	134	126	101	15	688	13	4,390

MARKET SHARE OF ENGINES OF EC DESIGN ORIGIN (AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	98.8	-	0.8	-	100.0	33.3	100.0	100.0	55.9	100.0	73.1
1980	99.1	-	0.2	-	75.6	61.9	73.0	100.0	83.0	100.0	51.7
1985	92.5	-	0.4	0.0	54.2	73.9	78.1	100.0	84.2	38.5	40.0
1986	91.8	-	0.7	0.0	54.6	74.2	76.8	100.0	84.3	38.5	40.7
1987	90.6	-	1.5	0.0	53.0	77.0	78.2	100.0	84.9	38.5	41.3

EC - DG III

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MILITARY TURBINE ENGINES IN SERVICE AT YEAR-END - CATEGORY : TURBOFAN - MAXIMUM THRUST BELOW 3 TONS (FLEET)

TOTAL (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	65	384	0	20	3	29	12	0	3	8	524
1980	671	369	0	18	31	179	60	0	29	8	1,365
1985	1,386	463	313	18	138	449	244	0	162	5	3,178
1986	1,387	286	313	18	164	441	216	0	187	8	3,020
1987	1,383	286	322	15	175	503	233	0	238	8	3,163

MARKET SHARE OF ENGINES OF EC DESIGN ORIGIN (AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	0.0	95.8	-	0.0	0.0	0.0	0.0	-	0.0	0.0	70.2
1980	83.9	94.9	-	0.0	0.0	21.2	35.0	-	27.6	0.0	71.8
1985	80.9	87.7	0.0	0.0	0.0	49.7	48.0	-	11.7	0.0	59.3
1986	80.2	80.1	0.0	0.0	0.0	52.8	52.8	-	10.2	0.0	56.6
1987	79.9	80.1	0.0	0.0	0.0	47.7	48.1	-	8.0	0.0	53.9

EC - DG III

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MILITARY TURBINE ENGINES IN SERVICE AT YEAR-END - CATEGORY : TURBOJET - MAXIMUM THRUST OF 7 TO 14 TONS (FLEET)

TOTAL (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	2,943	978	9,536	180	106	2,300	100	20	1,731	0	17,894
1980	2,983	1,010	6,616	110	144	2,804	193	70	2,221	0	16,151
1985	1,877	1,022	5,237	0	259	3,460	293	69	2,210	0	14,427
1986	1,807	1,070	4,775	0	259	3,346	268	68	2,102	0	13,695
1987	1,655	1,141	3,992	0	259	3,357	265	65	2,120	0	12,854

MARKET SHARE OF ENGINES OF EC DESIGN ORIGIN (AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	29.2	38.5	0.0	0.0	0.0	6.4	0.0	100.0	0.0	-	7.8
1980	29.0	34.5	0.0	0.0	21.5	7.6	0.0	100.0	0.0	-	9.5
1985	29.8	23.8	0.0	-	15.1	12.4	0.0	100.0	0.0	-	9.3
1986	32.0	23.7	0.0	-	15.1	10.8	0.0	100.0	0.0	-	9.5
1987	30.4	17.2	0.0	-	15.1	10.8	0.0	100.0	0.0	-	9.1

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MILITARY TURBINE ENGINES IN SERVICE AT YEAR-END - CATEGORY : TURBOJET - MAXIMUM THRUST OF 3 TO 7 TONS (FLEET)

TOTAL (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,781	392	10,286	264	642	1,597	288	88	2,352	202	17,892
1980	1,335	295	8,756	134	648	1,270	356	73	2,182	184	15,233
1985	992	229	6,040	8	614	1,398	368	70	2,050	122	11,891
1986	871	228	5,664	8	616	1,283	336	70	2,342	113	11,531
1987	770	228	5,214	0	601	1,249	321	70	2,405	87	10,945

MARKET SHARE OF ENGINES OF EC DESIGN ORIGIN (AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	94.4	94.6	0.0	0.0	57.0	33.3	30.6	100.0	28.2	80.7	22.1
1980	96.4	100.0	0.0	0.0	53.1	27.3	24.7	100.0	22.7	80.4	20.2
1985	95.5	100.0	0.0	0.0	62.2	24.1	18.5	100.0	24.9	77.0	22.2
1986	94.8	100.0	0.0	0.0	62.3	25.8	17.6	100.0	15.6	75.2	20.4
1987	98.6	100.0	0.0	-	61.6	23.8	19.9	100.0	15.1	67.8	20.2

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MILITARY TURBINE ENGINES IN SERVICE AT YEAR-END - CATEGORY : TURBOJET - MAXIMUM THRUST BELOW 3 TONS (FLEET)

TOTAL (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	4,591	1,883	7,526	588	1,469	2,131	352	267	4,652	151	23,610
1980	3,734	1,744	6,058	419	1,406	2,084	347	277	3,937	124	20,130
1985	3,005	1,868	5,065	416	1,322	2,021	349	279	3,987	122	18,434
1986	2,693	1,696	4,922	414	1,326	1,964	308	278	3,896	119	17,616
1987	2,688	1,661	4,711	414	1,309	1,906	271	277	3,801	118	17,156

MARKET SHARE OF ENGINES OF EC DESIGN ORIGIN (AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	61.1	35.1	0.0	21.9	27.8	26.8	45.2	93.6	18.4	83.4	25.2
1980	60.8	35.7	0.0	23.4	30.4	26.8	43.8	100.0	16.9	100.0	25.8
1985	57.4	44.5	0.0	21.6	30.4	26.5	42.7	100.0	15.4	100.0	25.8
1986	53.4	41.6	0.0	21.7	30.4	26.4	43.5	100.0	15.7	100.0	24.4
1987	53.9	39.9	0.0	21.7	30.3	27.4	49.1	100.0	14.9	100.0	24.6

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MILITARY TURBINE ENGINES IN SERVICE AT YEAR-END - CATEGORY : TURBOPROP (FLEET)

TOTAL (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	1,568	268	7,599	213	898	1,114	216	78	1,170	199	13,323
1980	1,807	334	7,725	246	1,511	1,355	445	73	1,712	356	15,564
1985	2,091	453	8,662	278	2,048	1,772	780	65	2,233	383	18,765
1986	2,076	453	8,815	280	2,192	1,774	821	62	2,506	353	19,332
1987	2,121	400	8,690	280	2,340	1,853	827	60	2,608	369	19,548

MARKET SHARE OF ENGINES OF EC DESIGN ORIGIN (AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	63.1	22.8	0.3	8.5	21.2	5.3	22.7	35.9	19.9	14.1	12.6
1980	46.8	19.8	0.2	7.3	17.2	5.8	16.0	38.4	16.7	17.1	11.1
1985	41.6	15.9	0.4	6.5	17.4	6.0	8.3	43.1	14.6	17.2	10.4
1986	40.6	14.8	0.4	6.4	15.5	6.0	8.3	40.3	13.2	10.2	9.7
1987	40.4	16.7	0.4	6.4	14.4	5.7	8.3	41.7	12.5	14.4	9.7

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MILITARY TURBINE ENGINES IN SERVICE AT YEAR-END - CATEGORY : TURBOSHAFT (FLEET)

TOTAL (UNITS)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	4,524	713	15,256	342	710	1,929	380	259	1,950	215	26,278
1980	5,361	894	15,679	330	977	3,200	672	285	2,938	211	30,547
1985	6,857	1,221	16,013	328	1,655	3,998	1,033	278	3,983	218	35,584
1986	6,794	1,242	16,622	328	1,855	4,097	1,090	276	4,262	217	36,783
1987	6,619	1,351	16,551	323	1,893	4,430	1,264	269	4,400	210	37,310

MARKET SHARE OF ENGINES OF EC DESIGN ORIGIN (AS % OF TOTAL)

	EC	EUR	USA	CDN	LAT	ME	AFR	SAF	ASA	AUS	TOTAL
1975	65.8	45.6	0.0	0.0	22.0	22.5	70.3	100.0	17.5	24.2	18.3
1980	64.0	41.6	0.0	0.0	27.8	21.0	44.6	100.0	20.1	20.9	19.5
1985	51.9	41.3	0.0	0.0	22.2	24.7	45.7	100.0	17.7	36.7	19.5
1986	52.1	40.3	0.0	0.0	23.2	25.1	44.8	100.0	17.2	35.9	19.2
1987	51.4	37.2	0.0	0.0	23.1	24.9	37.6	100.0	17.5	36.7	18.9

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MILITARY TURBINE ENGINES IN SERVICE AT YEAR- END - MARKET SHARE BY MANUFACTURER

TURBOFAN - MAXIMUM THRUST ABOVE 14 TONS

	AS % OF TOTAL							TOTAL (UNITS)
	CFM	ROLLS-ROYCE	SNECMA	TURBO-UNION	GENERAL ELECTRIC	PRATT AND WHITNEY	OTHER	
1975	0.0	0.0	0.0	0.0	87.9	12.1	0.0	423
1980	0.0	0.0	0.0	0.0	89.1	10.9	0.0	422
1985	0.0	3.4	0.0	0.0	92.4	4.2	0.0	554
1986	0.0	4.5	0.0	0.0	91.9	3.6	0.0	642
1987	0.0	4.5	0.0	0.0	92.4	3.1	0.0	733

TURBOFAN - MAXIMUM THRUST OF 7 TO 14 TONS

	AS % OF TOTAL							TOTAL (UNITS)
	CFM	ROLLS-ROYCE	SNECMA	TURBO-UNION	GENERAL ELECTRIC	PRATT AND WHITNEY	OTHER	
1975	0.0	24.1	0.0	0.0	0.0	73.1	2.8	7,216
1980	0.0	17.3	0.0	0.2	0.1	75.0	7.4	10,559
1985	4.9	11.5	0.5	7.8	3.7	63.2	8.5	16,636
1986	5.9	10.3	0.7	8.4	4.4	62.2	8.2	17,844
1987	6.3	9.1	0.9	8.1	10.1	56.3	9.2	20,442

TURBOFAN - MAXIMUM THRUST OF 3 TO 7 TONS

	AS % OF TOTAL							TOTAL (UNITS)
	CFM	ROLLS-ROYCE	SNECMA	TURBO-UNION	GENERAL ELECTRIC	PRATT AND WHITNEY	OTHER	
1975	0.0	73.1	0.0	0.0	15.6	10.8	0.5	1,627
1980	0.0	51.7	0.0	0.0	41.0	7.0	0.3	3,635
1985	0.0	40.0	0.0	0.0	49.2	9.9	1.0	4,385
1986	0.0	40.7	0.0	0.0	48.0	10.3	1.0	4,413
1987	0.0	41.3	0.0	0.0	47.3	10.4	1.0	4,390

EC - DG III

MILITARY TURBINE ENGINES IN SERVICE AT YEAR- END - MARKET SHARE BY MANUFACTURER

TURBOFAN - MAXIMUM THRUST BELOW 3 TONS

	AS % OF TOTAL							TOTAL (UNITS)
	CFM	ROLLS-ROYCE	SNECMA	TURBO-UNION	GENERAL ELECTRIC	PRATT AND WHITNEY	OTHER	
1975	0.0	0.0	0.0	0.0	21.6	0.0	78.4	524
1980	0.0	15.2	31.5	0.0	11.2	0.0	42.1	1,359
1985	0.0	10.6	37.9	0.0	5.6	0.0	45.9	3,178
1986	0.0	11.3	39.6	0.0	6.0	0.0	43.0	3,020
1987	0.0	11.0	37.6	0.0	5.5	0.0	45.9	3,163

TURBOJET - MAXIMUM THRUST OF 7 TO 14 TONS

	AS % OF TOTAL							TOTAL (UNITS)
	CFM	ROLLS-ROYCE	SNECMA	TURBO-UNION	GENERAL ELECTRIC	PRATT AND WHITNEY	OTHER	
1975	0.0	7.2	0.6	0.0	58.8	18.3	15.0	17,894
1980	0.0	6.5	3.0	0.0	60.0	9.2	21.3	16,151
1985	0.0	3.3	6.0	0.0	58.7	3.7	28.3	14,427
1986	0.0	3.1	6.4	0.0	58.2	3.1	29.1	13,695
1987	0.0	2.3	6.7	0.0	55.7	2.7	32.5	12,854

TURBOJET - MAXIMUM THRUST OF 3 TO 7 TONS

	AS % OF TOTAL							TOTAL (UNITS)
	CFM	ROLLS-ROYCE	SNECMA	TURBO-UNION	GENERAL ELECTRIC	PRATT AND WHITNEY	OTHER	
1975	0.0	11.4	9.7	0.0	0.0	59.3	19.6	17,892
1980	0.0	10.1	9.7	0.0	0.0	61.3	18.8	15,233
1985	0.0	10.2	12.0	0.0	0.1	55.4	22.4	11,897
1986	0.0	8.6	11.8	0.0	0.1	54.2	25.4	11,531
1987	0.0	8.7	11.5	0.0	0.1	52.9	26.9	10,945

EC - DG III

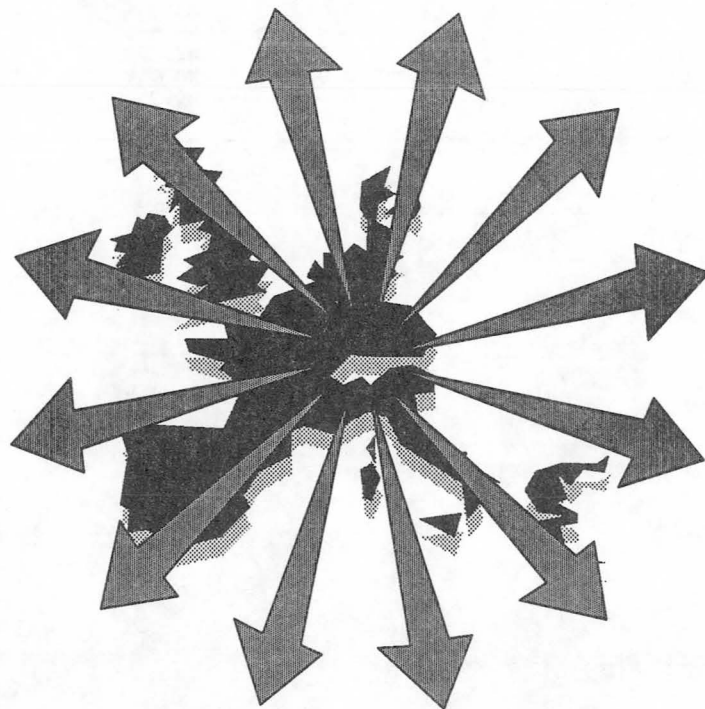
MILITARY TURBINE ENGINES IN SERVICE AT YEAR- END - MARKET SHARE BY MANUFACTURER

TURBOJET - MAXIMUM THRUST BELOW 3 TONS

	AS % OF TOTAL							TOTAL (UNITS)
	CFM	ROLLS-ROYCE	SNECMA	TURBO-UNION	GENERAL ELECTRIC	PRATT AND WHITNEY	OTHER	
1975	0.0	14.1	0.0	0.0	43.0	2.7	40.1	23,610
1980	0.0	15.2	0.0	0.0	44.8	2.9	37.1	20,130
1985	0.0	16.3	0.0	0.0	47.6	1.6	34.6	18,434
1986	0.0	16.8	0.0	0.0	48.9	1.5	32.8	17,616
1987	0.0	16.8	0.0	0.0	49.9	1.1	32.1	17,156

EC - DG III

CIVIL AEROSPACE EXTERNAL TRADE



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C I V I L A E R O S P A C E T R A D E

The figures on external trade in aerospace products are obtained using the NIMEXE tables supplied by the **STATISTICAL OFFICE of the EUROPEAN COMMUNITIES (SOEC-EUROSTAT)**.

The statistical data only concern the civil aircraft, goods for use in civil aircraft and for incorporation therein in the course of their manufacture, repair, maintenance, rebuilding, modification or conversion, and ground flying-trainers and their parts, for civil use. "Civil aircraft" means aircraft other than aircraft used in military or similar services in the Member States which carry a military or non-civil registration.

In order to simplify the presentation of the data concerning trade on these products, four groups of products have been created: **airframes, engines, equipment and other material**.

■ AIRFRAMES:

- Balloons and dirigibles; gliders, hand gliders and other non-powered aircraft
- Helicopters
- Aeroplanes and other aircraft
- Propellers and rotors and parts thereof
- Under-carriages and parts thereof

- Ground flying trainers and parts thereof

■ ENGINES:

- Spark-ignition internal combustion piston engines
- Compression-ignition internal combustion piston engines (diesel or semi-diesel engines)
- Parts suitable for use solely or principally with spark- or compression-ignition aircraft engines
- Turbo-jets, turbo-propellers and other gas turbines, and parts
- Other engines and motors (reaction engines other than turbo-jets, hydraulic and pneumatic power engines and motors, etc) and parts

■ EQUIPMENT:

- Automatic data-processing machines and units thereof
- Hydropneumatic batteries; mechanical actuators for thrust reversers; toilet units specially designed; air humidifiers and dehumidifiers; servo-mechanisms, non-electric; non-electric starter motors; pneumatic starters for turbo-jets, turbo-propel-

C I V I L A E R O S P A C E T R A D E

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- | | |
|--|---|
| <p>lers and other gas turbines; windscreens wipers, non-electric; propeller regulators, non-electric</p> <ul style="list-style-type: none"> - Transmission shafts (including cam shafts and crank shafts) and cranks - Bearing housings, not incorporating ball or roller bearings; plain shaft bearings - Gears and gearing, other than toothed wheels, chain sprockets and other transmission elements presented separately; ball screws; gear boxes and other speed changers, including torque converters - Flywheels and pulleys, including pulley blocks - Clutches and shaft couplings (including universal joints) - Microphones and stands therefor; loudspeakers; telephones, earphones and combined microphone/speaker sets; audio-frequency electric amplifiers; electric sound amplifier sets - Magnetic tape recorders and other sound recording apparatus - Video magnetic tape recording or reproducing apparatus | <ul style="list-style-type: none"> - Transmission apparatus for radio-telephony or radio-telegraphy - Radar apparatus, radio navigational aid apparatus and radio remote control apparatus - Reception apparatus for radio-telephony or radio-telegraphy - Aerials and aerial reflectors; parts suitable for use therewith - Electric sound or visual signalling apparatus (fire alarms and similar apparatus, indicator panels incorporating liquid crystal devices (LCD) or light emitting diodes (LED), etc) - Flight recorders - Ignition wiring sets and other wiring sets - Optical elements - Direction finding compasses - Stall warning calculators - Breathing appliances and gas masks (excluding parts thereof) - Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers |
|--|---|

C I V I L A E R O S P A C E T R A D E

- Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases
- Revolution counters, speed indicators and tachometers
- Oscilloscopes, spectrum analysers and other instruments and apparatus for measuring or checking electrical quantities, measuring or detecting ionizing radiations
- Other measuring or checking instruments, appliances and machines
- Automatic regulating or controlling instruments and apparatus
- Instrument panel clocks
- Clock movements, complete and assembled
- **OTHER MATERIAL:**
 - Tubes, pipes and hoses, and fittings therefor (for exemple, joints, elbows, flanges), of plastics
 - Other articles of plastics for technical uses
 - Profile shapes, cut to size, of vulcanized rubber other than hard rubber
 - Tubes, pipes and hoses, of vulcanized rubber other than hard rubber, with fittings, suitable for conducting gases or liquids
 - New pneumatic tyres, of rubber
 - Retreaded or used pneumatic tyres, of rubber
 - Other articles of vulcanized rubber other than hard rubber
 - Piping and tubing of hard rubber, with fittings attached, suitable for conducting gases or liquids
 - Gaskets, washers and other seals of agglomerated cork
 - Gaskets, washers and other seals of paper pulp, paper or paperboard
 - Articles of asbestos or of asbestos and magnesium carbonate
 - Friction material and articles thereof, not mounted, for brakes, for clutches or the like, with a basis of asbestos or other mineral substances
 - Windshields of laminated safety glass, not framed

C I V I L A E R O S P A C E T R A D E

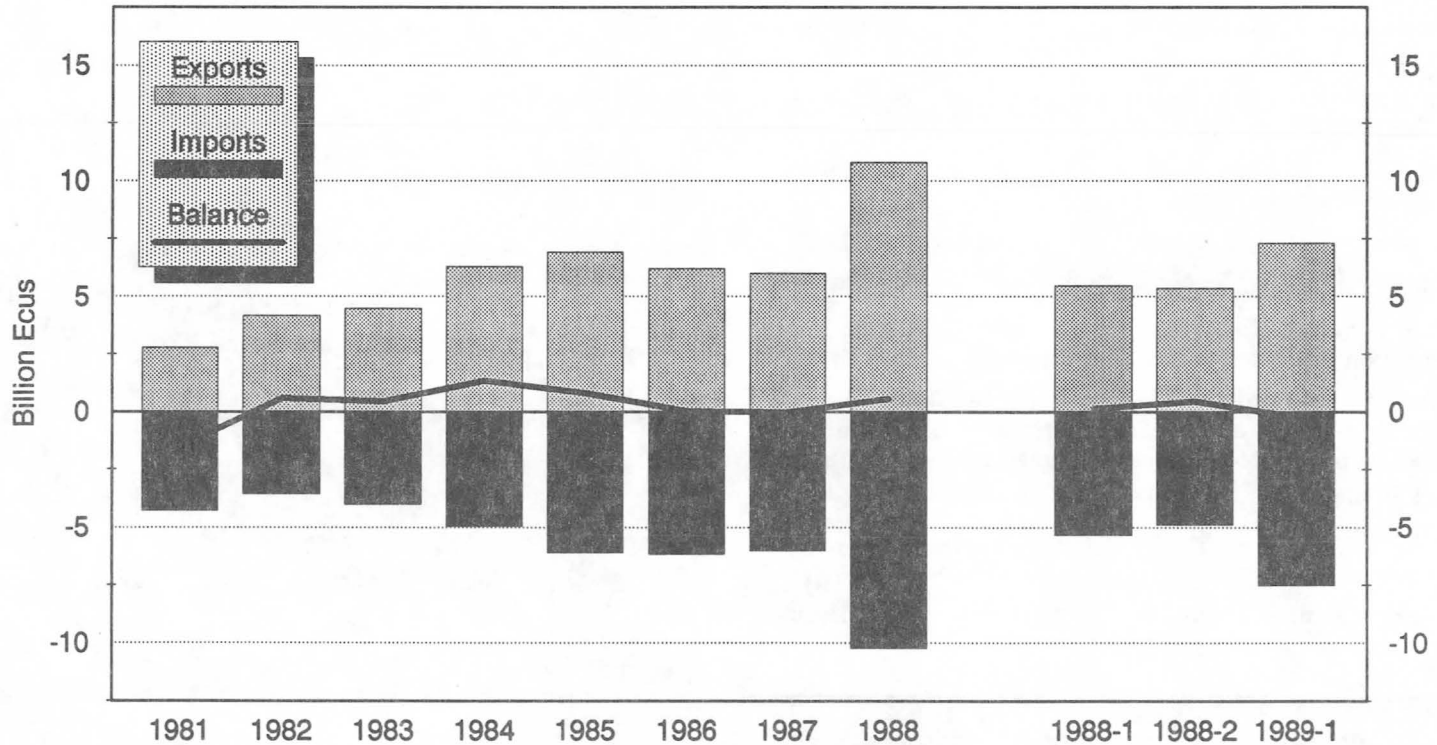
- Tubes, pipes and hollow profiles, of iron or steel, with fittings attached, suitable for conducting gases or liquids
- Stranded wire, ropes, cables, plaited bands, slings and the like, of iron or steel, not electrically insulated, with fittings attached
- Air heaters and hot air distributors (excluding parts thereof)
- Sanitary ware (excluding parts thereof), of iron and steel
- Other articles of iron or steel wire
- Stranded wire, cables, plaited bands and the like, of copper, not electrically insulated, with fittings attached
- Aluminium tubes and pipes, with fittings attached, suitable for conducting gases or liquids
- Titanium tubes and pipes, with fittings attached, suitable for conducting gases or liquids
- Base metal mountings, fittings and similar articles (hinges, castors, automatic door closers, etc)
- Flexible tubing of base metal, with fittings attached
- Pumps for liquids; liquid elevators, and parts
- Air vacuum pumps, air or other gas compressors and fans, and parts
- Air conditioning machines and parts
- Refrigerators, freezers and other refrigerating or freezing equipment; heat pumps other than air conditioning machines
- Heat exchange units and parts
- Other machinery for making hot drinks or for cooking or heating food
- Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases
- Fire extinguishers
- Pulley tackle and hoists other than skip hoists; winches and capstans; jacks
- Cranes
- Other lifting, handling, loading or unloading machinery (for example, lifts, skip hoists, elevators and conveyors, etc)
- Gaskets and similar joints of metal sheeting combined with other material or of two or more layers of metal

C I V I L A E R O S P A C E T R A D E

- Electric motors and generators (excluding generating sets)
 - Electric generating sets and rotary converters
 - Electric transformers, static converters and inductors
 - Electric accumulators, including separators therefor
 - Electrical ignition or starting equipment of a kind used for spark-ignition or compression-ignition internal combustion engines; generators and cut-outs of a kind used in conjunction with such engines
 - Electric heating resistors, assembled only with a simple insulated former and electrical connections, used for anti-icing or de-icing
 - Sealed beam lamp units
 - Furniture
 - Lamps and lighting fittings; illuminated signs and name-plates
-

Data concerning the United Kingdom are not complete and do not allow the subdivision as indicated above.

EC Civil Aerospace Trade



Source: EUROSTAT

EC CIVIL AEROSPACE TRADE (1) : TOTAL EXTRA-EC (MIO ECUS)

1) IMPORTS

	1981	1982	1983	1984	1985	1986	1987	1988	1988 JAN-JUN	1988 JUL-DEC	1989 JAN-JUN
AIRFRAMES (2)	2,492	1,454	1,491	1,721	2,660	2,817	2,633	5,754	3,180	2,575	4,782
ENGINES	1,326	1,567	1,879	2,504	2,644	2,555	2,648	2,970	1,462	1,507	1,829
EQUIPMENT	346	415	499	556	573	579	560	589	259	329	337
OTHER MATERIAL	134	139	153	192	234	225	194	933	440	493	576
TOTAL	4,298	3,575	4,022	4,974	6,111	6,176	6,035	10,246	5,342	4,904	7,523

2) EXPORTS

	1981	1982	1983	1984	1985	1986	1987	1988	1988 JAN-JUN	1988 JUL-DEC	1989 JAN-JUN
AIRFRAMES (2)	2,116	3,031	2,791	3,962	3,704	2,956	2,651	6,228	3,259	2,969	4,697
ENGINES	352	757	1,285	1,875	2,649	2,655	2,806	2,901	1,412	1,490	1,671
EQUIPMENT	195	218	247	296	356	387	361	477	216	261	254
OTHER MATERIAL	105	146	145	164	205	189	169	1,183	569	614	664
TOTAL	2,767	4,151	4,468	6,297	6,914	6,187	5,988	10,789	5,456	5,334	7,286

3) BALANCE

	1981	1982	1983	1984	1985	1986	1987	1988	1988 JAN-JUN	1988 JUL-DEC	1989 JAN-JUN
AIRFRAMES (2)	- 376	1,577	1,300	2,240	1,044	139	18	474	79	395	-84
ENGINES	- 975	- 810	- 594	- 629	5	100	159	-68	-51	-18	- 158
EQUIPMENT	- 151	- 198	- 252	- 260	- 217	- 193	- 199	- 112	-43	-69	-84
OTHER MATERIAL	-29	7	-8	-28	-30	-36	-25	250	128	121	88
TOTAL	-1,531	576	445	1,323	803	11	-47	543	114	430	- 237

EC - DG III / SOURCE : EUROSTAT

(1) 1981-85: EC 10 - 1986-89: EC 12

(2) UNITED KINGDOM: AIRFRAMES NOT INCLUDED

EC CIVIL AEROSPACE TRADE (1) WITH USA (MIO ECUS)

1) IMPORTS

	1981	1982	1983	1984	1985	1986	1987	1988	1988 JAN-JUN	1988 JUL-DEC	1989 JAN-JUN
AIRFRAMES (2)	2,323	1,297	1,282	1,484	2,338	2,604	2,236	3,826	2,127	1,699	3,777
ENGINES	1,236	1,459	1,702	2,124	2,226	2,196	2,252	2,574	1,284	1,291	1,575
EQUIPMENT	310	375	447	492	512	518	505	489	215	275	286
OTHER MATERIAL	119	124	132	163	208	204	166	370	175	195	228
TOTAL	3,988	3,255	3,563	4,262	5,285	5,522	5,159	7,259	3,800	3,459	5,866

2) EXPORTS

	1981	1982	1983	1984	1985	1986	1987	1988	1988 JAN-JUN	1988 JUL-DEC	1989 JAN-JUN
AIRFRAMES (2)	708	727	609	879	1,507	806	1,035	2,008	1,078	929	1,294
ENGINES	205	454	803	1,201	1,852	1,844	1,823	1,965	975	990	1,178
EQUIPMENT	60	66	76	95	126	140	137	147	69	78	71
OTHER MATERIAL	24	34	29	39	60	62	52	293	129	134	150
TOTAL	997	1,281	1,517	2,214	3,544	2,852	3,047	4,412	2,251	2,132	2,693

3) BALANCE

	1981	1982	1983	1984	1985	1986	1987	1988	1988 JAN-JUN	1988 JUL-DEC	1989 JAN-JUN
AIRFRAMES (2)	-1,615	- 570	- 673	- 605	- 832	-1,798	-1,202	-1,818	-1,049	- 769	-2,483
ENGINES	-1,031	-1,005	- 899	- 923	- 374	- 352	- 429	- 609	- 308	- 301	- 397
EQUIPMENT	- 250	- 309	- 372	- 397	- 387	- 378	- 367	- 343	- 146	- 197	- 215
OTHER MATERIAL	-95	-89	- 103	- 124	- 148	- 143	- 114	-77	-46	-60	-78
TOTAL	-2,991	-1,973	-2,047	-2,048	-1,741	-2,671	-2,112	-2,847	-1,550	-1,327	-3,174

EC - DG III / SOURCE : EUROSTAT

(1) 1981-85: EC 10 - 1986-89: EC 12

(2) UNITED KINGDOM: AIRFRAMES NOT INCLUDED

EC CIVIL AEROSPACE TRADE (1) WITH JAPAN (MIOS ECUS)

1) IMPORTS

	1981	1982	1983	1984	1985	1986	1987	1988	1988 JAN-JUN	1988 JUL-DEC	1989 JAN-JUN
AIRFRAMES (2)	1	10	29	9	2	3	4	57	51	6	28
ENGINES	0	1	0	0	3	2	3	4	3	1	3
EQUIPMENT	1	1	1	1	1	3	3	3	1	2	2
OTHER MATERIAL	3	2	4	8	5	4	4	83	37	46	46
TOTAL	5	14	35	18	10	12	14	147	92	55	78

2) EXPORTS

	1981	1982	1983	1984	1985	1986	1987	1988	1988 JAN-JUN	1988 JUL-DEC	1989 JAN-JUN
AIRFRAMES (2)	76	100	181	18	135	119	46	166	129	37	85
ENGINES	6	7	4	6	12	18	49	42	18	25	22
EQUIPMENT	2	3	2	2	3	4	4	6	3	3	4
OTHER MATERIAL	1	1	1	1	7	4	3	30	16	14	16
TOTAL	85	111	188	27	158	145	102	245	165	79	127

3) BALANCE

	1981	1982	1983	1984	1985	1986	1987	1988	1988 JAN-JUN	1988 JUL-DEC	1989 JAN-JUN
AIRFRAMES (2)	75	90	152	8	134	116	42	109	78	31	57
ENGINES	6	6	3	5	9	17	46	38	15	24	20
EQUIPMENT	2	2	2	2	2	1	1	3	2	1	1
OTHER MATERIAL	-2	-1	-4	-7	3	-1	-0	-52	-21	-31	-29
TOTAL	81	96	153	8	147	133	88	97	73	24	49

EC - DG III / SOURCE : EUROSTAT

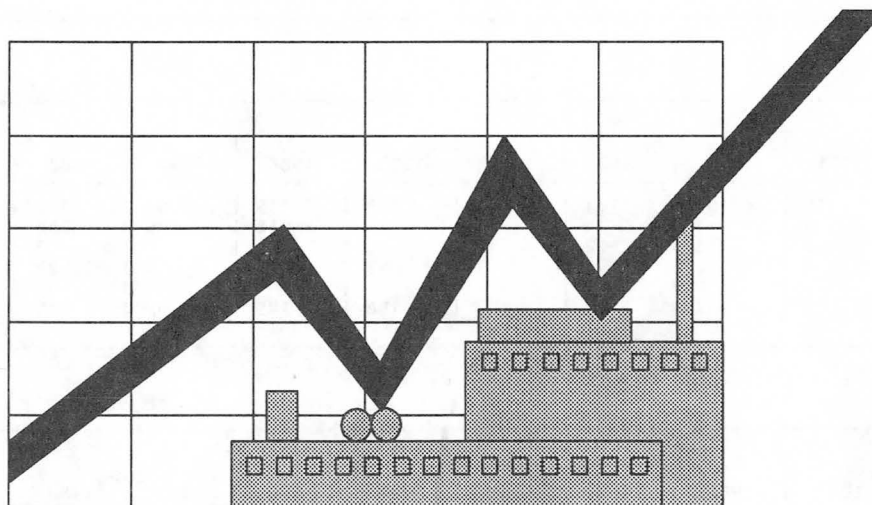
(1) 1981-85: EC 10 - 1986-89: EC 12

(2) UNITED KINGDOM: AIRFRAMES NOT INCLUDED

AEROSPACE TURNOVER

C H A P T E R

6



T U R N O V E R

The survey carried out each year in conjunction with the industrial associations in each Member State enables the turnover of the European aerospace industry to be broken down by type of customer and sector. Participants to this survey are the aerospace companies whose turnover concerns (partly or entirely) one or more of the groups of products listed in the columns of the tables.

Estimates for 1987 and 1988 for the turnover and employment of the aerospace industry are compiled using linear estimates performing a least-squares approximation to indicators such as turnover and employment of the major aerospace companies.

Where data relating to international co-operation programmes are concerned, only the turnover which corresponds to that part of these programmes which concerns the national industry (i.e. after deduction of that part of the turnover which concerns other countries) should be included in the total turnover. This applies both to the country which markets the product and to the country which supplies part of the product to the country which markets it. In all cases, the turnover is entered under the heading "End-Users".

However, standardization problems of the accounting methods remain and may affect turnover consolidated at the EC level.

Turnover on behalf of international public organizations (e.g. ESA) is entered under the heading "National State". In this case too, only the turnover corresponding to that part of these programmes which concerns the national industry is included in the national turnover.

A distinction is made between the following:

■ Overall national turnover

Overall national turnover includes transactions between national aerospace companies. Therefore, it does not indicate the output of the aerospace sector as such, since it includes intermediate exchanges at national level.

■ Turnover consolidated at national level

Turnover consolidated at national level does not include transactions between national aerospace companies, and so represents the output of the aerospace sector as such.

T U R N O V E R

The difference between overall national turnover and turnover consolidated at national level therefore represents the sale of aerospace goods and services between national companies in the various sub-sectors (aircraft, space, propulsion devices and equipment) and between national companies in the same subsectors (e.g. contracting between airframe manufacturers for certain sub-assemblies).

■ Turnover consolidated at Community level

Turnover consolidated at Community level represents the output of the EC as a whole, since it does not include intra-Community transactions between aerospace companies.

The difference between turnover consolidated at national level and turnover consolidated at EC level therefore includes the sale of aerospace goods and services between companies located in the different EC Member States.

The turnover is broken down by group of products and by category of customer (civil and military).

The groups of products considered are as follows:

a. Complete aerospace systems:

- Aircraft (aeroplane, helicopters and gliders), Missiles, their parts and spares.
- Space (space vehicles, satellites, launchers, ground installations, etc.).

b. Propulsion devices

(Piston engines, turboprops, turbojets, etc.), their parts and spares, equipment and accessories, for installation in the aerospace systems mentioned under (a).

c. Equipment

Equipment for the aerospace systems mentioned under (a) (finished products, parts and spares, sub-assemblies) including test and ground-training equipment.

The breakdown of turnover between the different categories of customer is carried out as follows:

- National State....: sales or services (including R&D) to the State (public authorities) in which the company is established;

T U R N O V E R

■ **Aerospace industry:** sales or services (including R&D) to other aerospace companies (generally sub-contracting);

■ **End-users.....:** sales or services (including R&D), i.e. neither to the State nor to other aerospace companies.

In the case of the "**Aerospace Industry**" and "**End-Users**", turnover is broken down between:

■ **National.....:** sales or services in the country in which the company is established,

■ **Other EC States:** sales or services in one of the other EC countries,

■ **Third countries:** sales or services in a non-EC country.

The **activities** considered concern:

■ **R&D contracts,**

■ **production, assembly,**

■ **post-delivery modifications, repairs and maintenance of material sold, where these operations are carried out by the company itself.**

Repair and maintenance operations carried out by users, whether civil or military, are not covered by this survey.

Turnover relating to the category of customer "**National State**" is broken down between:

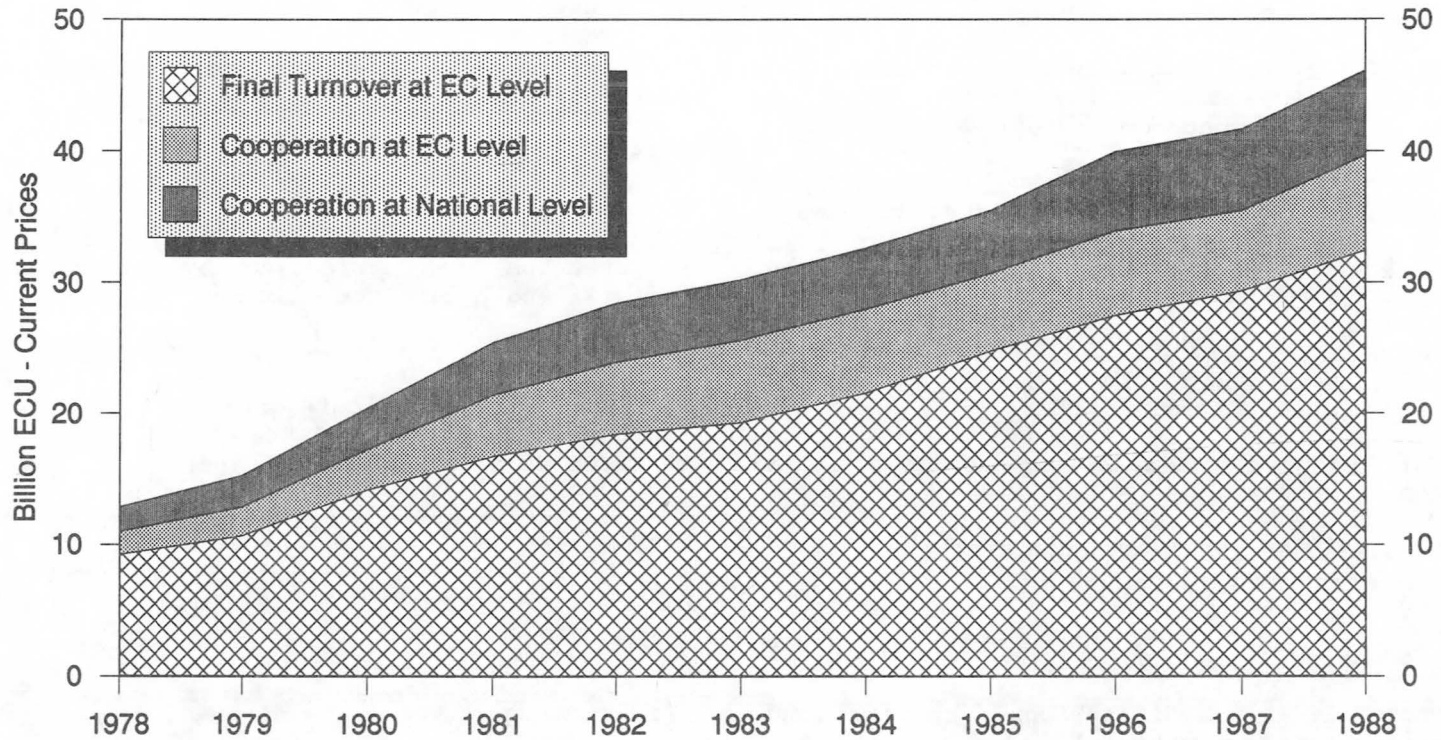
■ **R&D,**

■ **post-delivery modifications, repairs and maintenance of material sold, where these operations are carried out by the company itself and not by the customer, and**

■ **sales.**

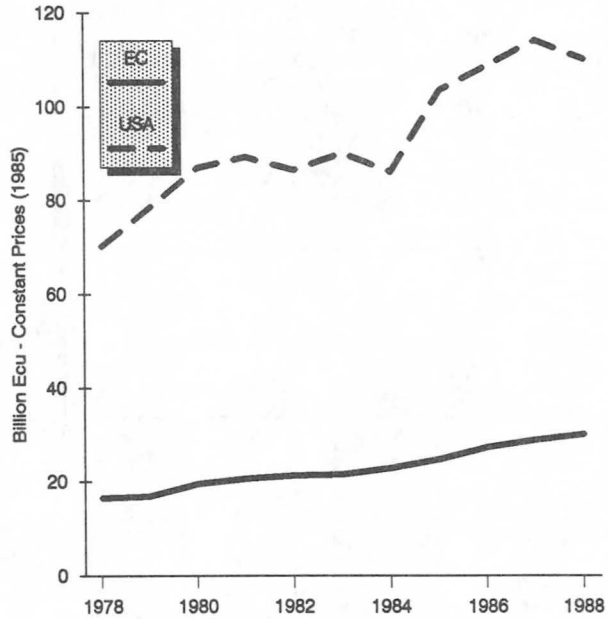
For the other two categories of customer, "**Aerospace Industry**" and "**End-Users**", the data refer to all these activities.

EC Aerospace Turnover

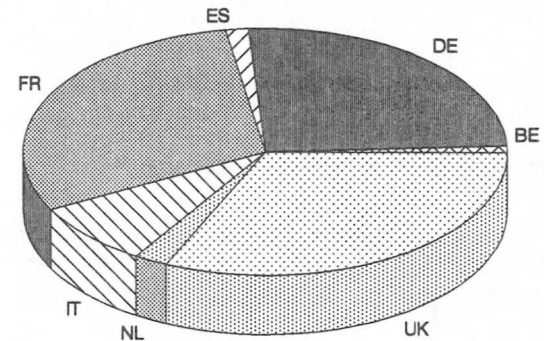


Source: Industrial Associations

Aerospace Turnover



Source: Industrial Associations



Breakdown by Country
1988 - Estimates

OVERALL NATIONAL AEROSPACE TURNOVER

1) MIO ECU - CURRENT PRICES (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	146	1,984	133	5,076	814	288	4,407	12,846	24,453	1,045	791
1979	218	3,077	132	5,767	990	338	4,702	15,224	28,058	934	1,032
1980	333	3,359	185	7,256	1,230	372	7,646	20,381	34,040	871	1,352
1981	429	4,114	262	8,816	1,758	445	9,581	25,404	49,116	1,189	2,077
1982	413	5,084	356	9,812	2,181	492	10,080	28,419	59,944	1,848	2,390
1983	344	5,380	348	10,827	2,661	605	10,015	30,179	72,019	2,108	2,555
1984	287	5,628	380	11,731	2,767	594	11,210	32,596	84,168	2,853	2,913
1985	361	6,524	398	12,555	3,070	533	12,035	35,477	103,326	3,558	3,498
1986	338	9,780	387	13,168	3,421	584	12,266	39,945	86,468	3,773	3,226
1987	339	10,076	426	13,011	3,660	452	13,697	41,661	77,142	4,011	3,414
1988	339	12,210	659	14,096	3,968	879	13,937	46,089	75,209	4,352	4,054

2) COMPARISON OF TURNOVER BY GEOGRAPHICAL AREA (EC = 100) (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	1.1	15.4	1.0	39.5	6.3	2.2	34.3	100.0	190.3	8.1	6.2
1979	1.4	20.2	0.9	37.9	6.5	2.2	30.9	100.0	184.3	6.1	6.8
1980	1.6	16.5	0.9	35.6	6.0	1.8	37.5	100.0	167.0	4.3	6.6
1981	1.7	16.2	1.0	34.7	6.9	1.8	37.7	100.0	193.3	4.7	8.2
1982	1.5	17.9	1.3	34.5	7.7	1.7	35.5	100.0	210.9	6.5	8.4
1983	1.1	17.8	1.2	35.9	8.8	2.0	33.2	100.0	238.6	7.0	8.5
1984	0.9	17.3	1.2	36.0	8.5	1.8	34.4	100.0	258.2	8.8	8.9
1985	1.0	18.4	1.1	35.4	8.7	1.5	33.9	100.0	291.2	10.0	9.9
1986	0.8	24.5	1.0	33.0	8.6	1.5	30.7	100.0	216.5	9.4	8.1
1987	0.8	24.2	1.0	31.2	8.8	1.1	32.9	100.0	185.2	9.6	8.2
1988	0.7	26.5	1.4	30.6	8.6	1.9	30.2	100.0	163.2	9.4	8.8

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88: DG III ESTIMATES

(2) 1983-86: DG III ESTIMATES

OVERALL NATIONAL AEROSPACE TURNOVER

3) MIO ECU - CONSTANT PRICES (ECU 1985) (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	186	2,900	230	8,170	1,631	409	9,483	23,010	70,150	1,798	1,801
1979	268	4,250	183	8,562	1,804	462	8,605	24,133	78,257	1,754	2,359
1980	399	4,450	244	9,738	1,940	483	10,834	28,087	86,866	1,653	2,830
1981	497	5,218	319	10,931	2,485	550	11,256	31,257	89,266	1,703	3,229
1982	483	5,840	399	11,594	2,782	541	11,154	32,793	86,473	2,578	3,085
1983	387	5,719	413	12,275	3,008	633	11,039	33,474	89,955	2,533	2,856
1984	308	5,783	404	12,561	2,875	608	11,870	34,408	85,997	2,997	2,940
1985	361	6,524	398	12,555	3,070	533	12,035	35,477	103,326	3,558	3,498
1986	318	9,068	371	12,544	3,213	555	13,501	39,570	108,693	3,383	4,131
1987	308	8,915	399	12,272	3,317	421	15,121	40,753	114,014	3,642	4,656
1988	307	10,672	565	13,090	3,494	806	13,616	42,551	110,033	3,582	5,054

4) GROWTH RATE OF TURNOVER (IN % - CONSTANT PRICES) (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	15.8	5.8	-	1.5	8.3	6.1	4.0	-	8.8	2.6	14.2
1979	43.4	46.5	20.3	4.8	10.6	13.0	9.3	4.9	11.6	2.4	31.0
1980	49.1	4.7	33.3	13.7	7.5	4.4	25.9	16.4	11.0	5.7	20.0
1981	24.7	17.2	30.7	12.3	28.1	14.0	3.9	11.3	2.8	3.0	14.1
1982	2.9	11.9	25.0	6.1	11.9	1.7	0.9	4.9	3.1	51.4	4.5
1983	19.9	2.1	3.7	5.9	8.1	17.1	1.0	2.1	4.0	1.7	7.4
1984	20.4	1.1	2.3	2.3	4.4	4.1	7.5	2.8	4.4	18.3	2.9
1985	17.5	12.8	1.4	0.0	6.8	12.2	1.4	3.1	20.2	18.7	19.0
1986	11.9	39.0	6.7	0.1	4.6	4.1	12.2	11.5	5.2	4.9	18.1
1987	3.2	1.7	7.5	2.2	3.3	24.1	12.0	3.0	4.9	7.7	12.7
1988	0.4	19.7	41.6	6.7	5.3	91.2	10.0	4.4	3.5	1.6	8.6

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978-88	5.1	13.9	9.4	4.8	7.9	7.0	3.7	6.3	4.6	7.1	10.9

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88: DG III ESTIMATES

(2) 1983-86: DG III ESTIMATES

AEROSPACE TURNOVER CONSOLIDATED AT NATIONAL LEVEL

1) MIO ECU - CURRENT PRICES (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	132	1,705	132	4,214	623	285	3,889	10,980	24,453	1,045	791
1979	215	2,590	131	4,732	773	337	4,029	12,807	28,058	934	1,032
1980	320	2,710	184	5,978	1,028	371	6,648	17,239	34,040	871	1,352
1981	426	3,317	262	7,241	1,526	441	8,153	21,366	49,116	1,189	2,077
1982	409	4,112	354	7,982	1,866	486	8,706	23,915	59,944	1,848	2,390
1983	339	4,272	346	8,904	2,220	595	8,895	25,572	72,019	2,108	2,555
1984	284	4,515	371	9,969	2,332	584	9,890	27,945	84,168	2,853	2,913
1985	360	5,319	383	10,782	2,611	533	10,660	30,648	103,326	3,558	3,498
1986	336	7,901	357	10,966	2,851	584	10,919	33,915	86,468	3,773	3,226
1987	337	8,289	360	10,899	3,036	452	12,046	35,420	77,142	4,011	3,414
1988	335	10,020	609	11,930	3,292	879	12,579	39,645	75,209	4,352	4,054

2) COMPARISON OF TURNOVER BY GEOGRAPHICAL AREA (EC = 100) (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	1.2	15.5	1.2	38.4	5.7	2.6	35.4	100.0	222.7	9.5	7.2
1979	1.7	20.2	1.0	37.0	6.0	2.6	31.5	100.0	219.1	7.3	8.1
1980	1.9	15.7	1.1	34.7	6.0	2.2	38.6	100.0	197.5	5.1	7.8
1981	2.0	15.5	1.2	33.9	7.1	2.1	38.2	100.0	229.9	5.6	9.7
1982	1.7	17.2	1.5	33.4	7.8	2.0	36.4	100.0	250.7	7.7	10.0
1983	1.3	16.7	1.4	34.8	8.7	2.3	34.8	100.0	281.6	8.2	10.0
1984	1.0	16.2	1.3	35.7	8.3	2.1	35.4	100.0	301.2	10.2	10.4
1985	1.2	17.4	1.3	35.2	8.5	1.7	34.8	100.0	337.1	11.6	11.4
1986	1.0	23.3	1.1	32.3	8.4	1.7	32.2	100.0	255.0	11.1	9.5
1987	1.0	23.4	1.0	30.8	8.6	1.3	34.0	100.0	217.8	11.3	9.6
1988	0.8	25.3	1.5	30.1	8.3	2.2	31.7	100.0	189.7	11.0	10.2

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88 : DG III ESTIMATES

(2) 1983-86 : DG III ESTIMATES

AEROSPACE TURNOVER CONSOLIDATED AT NATIONAL LEVEL

3) MIO ECU - CONSTANT PRICES (ECU 1985) (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	169	2,493	229	6,782	1,249	406	8,368	19,696	70,150	1,798	1,801
1979	264	3,577	182	7,025	1,408	460	7,374	20,290	78,257	1,754	2,359
1980	383	3,591	244	8,023	1,622	482	9,418	23,762	86,866	1,653	2,830
1981	493	4,208	319	8,978	2,158	545	9,579	26,280	89,266	1,703	3,229
1982	478	4,723	396	9,432	2,380	534	9,634	27,577	86,473	2,578	3,085
1983	381	4,542	411	10,095	2,510	623	9,804	28,367	89,955	2,533	2,856
1984	305	4,639	395	10,674	2,423	597	10,473	29,506	85,997	2,997	2,940
1985	360	5,319	383	10,782	2,611	533	10,660	30,648	103,326	3,558	3,498
1986	317	7,325	343	10,446	2,677	555	12,019	33,682	108,693	3,383	4,131
1987	306	7,334	337	10,279	2,752	421	13,299	34,729	114,014	3,642	4,656
1988	303	8,758	522	11,079	2,900	806	12,289	36,657	110,033	3,582	5,054

4) GROWTH RATE OF TURNOVER (IN % - CONSTANT PRICES) (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	8.3	10.1	-	0.2	3.5	6.9	3.6		8.8	2.6	14.2
1979	56.5	43.5	20.4	3.6	12.7	13.4	11.9	3.0	11.6	2.4	31.0
1980	45.0	0.4	33.8	14.2	15.2	4.7	27.7	17.1	11.0	5.7	20.0
1981	28.9	17.2	30.7	11.9	33.0	13.2	1.7	10.6	2.8	3.0	14.1
1982	3.1	12.2	24.4	5.1	10.3	2.0	0.6	4.9	3.1	51.4	4.5
1983	20.3	3.8	3.8	7.0	5.5	16.7	1.8	2.9	4.0	1.7	7.4
1984	20.1	2.1	4.1	5.7	3.5	4.2	6.8	4.0	4.4	18.3	2.9
1985	18.2	14.7	2.9	1.0	7.7	10.7	1.8	3.9	20.2	18.7	19.0
1986	11.9	37.7	10.6	3.1	2.5	4.1	12.7	9.9	5.2	4.9	18.1
1987	3.4	0.1	1.5	1.6	2.8	24.1	10.7	3.1	4.9	7.7	12.7
1988	0.9	19.4	54.9	7.8	5.4	91.2	7.6	5.5	3.5	1.6	8.6

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978-88	6.0	13.4	8.6	5.0	8.8	7.1	3.9	6.4	4.6	7.1	10.9

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88 : DG III ESTIMATES

(2) 1983-86 : DG III ESTIMATES

AEROSPACE TURNOVER CONSOLIDATED AT EC LEVEL

1) MIO ECU - CURRENT PRICES (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	82	1,214	108	3,851	518	252	3,193	9,218	24,453	1,045	791
1979	158	1,966	98	4,269	681	300	3,177	10,649	28,058	934	1,032
1980	263	1,715	136	5,424	760	325	5,501	14,123	34,040	871	1,352
1981	349	1,837	189	6,535	1,307	373	6,129	16,719	49,116	1,189	2,077
1982	338	2,157	281	7,303	1,623	408	6,283	18,393	59,944	1,848	2,390
1983	271	2,175	247	7,950	1,698	518	6,409	19,269	72,019	2,108	2,555
1984	205	2,342	291	9,083	1,744	528	7,330	21,523	84,168	2,853	2,913
1985	260	3,135	299	10,278	1,830	505	8,408	24,715	103,326	3,558	3,498
1986	227	5,538	278	10,264	1,977	556	8,625	27,465	86,468	3,773	3,226
1987	224	6,081	304	10,099	2,099	437	10,082	29,325	77,142	4,011	3,414
1988	254	7,176	503	11,062	2,264	843	10,301	32,402	75,209	4,352	4,054

2) COMPARISON OF TURNOVER BY GEOGRAPHICAL AREA (EC = 100) (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	0.9	13.2	1.2	41.8	5.6	2.7	34.6	100.0	265.3	11.3	8.6
1979	1.5	18.5	0.9	40.1	6.4	2.8	29.8	100.0	263.5	8.8	9.7
1980	1.9	12.1	1.0	38.4	5.4	2.3	39.0	100.0	241.0	6.2	9.6
1981	2.1	11.0	1.1	39.1	7.8	2.2	36.7	100.0	293.8	7.1	12.4
1982	1.8	11.7	1.5	39.7	8.8	2.2	34.2	100.0	325.9	10.0	13.0
1983	1.4	11.3	1.3	41.3	8.8	2.7	33.3	100.0	373.8	10.9	13.3
1984	1.0	10.9	1.4	42.2	8.1	2.5	34.1	100.0	391.1	13.3	13.5
1985	1.1	12.7	1.2	41.6	7.4	2.0	34.0	100.0	418.1	14.4	14.2
1986	0.8	20.2	1.0	37.4	7.2	2.0	31.4	100.0	314.8	13.7	11.7
1987	0.8	20.7	1.0	34.4	7.2	1.5	34.4	100.0	263.1	13.7	11.6
1988	0.8	22.1	1.6	34.1	7.0	2.6	31.8	100.0	232.1	13.4	12.5

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88: DG III ESTIMATES

(2) 1983-86: DG III ESTIMATES

AEROSPACE TURNOVER CONSOLIDATED AT EC LEVEL

3) MIO ECU - CONSTANT PRICES (ECU 1985) (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	106	1,775	187	6,199	1,038	358	6,871	16,534	70,150	1,798	1,801
1979	195	2,716	137	6,337	1,242	409	5,813	16,849	78,257	1,754	2,359
1980	314	2,272	180	7,279	1,198	422	7,794	19,459	86,866	1,653	2,830
1981	405	2,330	230	8,103	1,848	461	7,200	20,577	89,266	1,703	3,229
1982	395	2,478	315	8,629	2,070	448	6,953	21,288	86,473	2,578	3,085
1983	305	2,312	293	9,014	1,920	543	7,064	21,451	89,955	2,533	2,856
1984	220	2,407	309	9,726	1,813	540	7,762	22,776	85,997	2,997	2,940
1985	260	3,135	299	10,278	1,830	505	8,408	24,715	103,326	3,558	3,498
1986	214	5,135	266	9,777	1,857	528	9,493	27,271	108,693	3,383	4,131
1987	203	5,381	284	9,525	1,902	407	11,130	28,833	114,014	3,642	4,656
1988	230	6,272	431	10,272	1,994	772	10,064	30,035	110,033	3,582	5,054

4) GROWTH RATE OF TURNOVER (IN % - CONSTANT PRICES) (1)

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978	48.3	10.0	-	0.4	7.1	13.6	4.0		8.8	2.6	14.2
1979	84.5	53.0	27.0	2.2	19.6	14.2	15.4	1.9	11.6	2.4	31.0
1980	61.5	16.4	31.6	14.9	3.5	3.1	34.1	15.5	11.0	5.7	20.0
1981	28.8	2.5	27.5	11.3	54.2	9.3	7.6	5.7	2.8	3.0	14.1
1982	2.3	6.4	37.1	6.5	12.0	2.9	3.4	3.5	3.1	51.4	4.5
1983	22.9	6.7	6.9	4.5	7.2	21.1	1.6	0.8	4.0	1.7	7.4
1984	27.9	4.1	5.6	7.9	5.6	0.6	9.9	6.2	4.4	18.3	2.9
1985	18.4	30.2	3.4	5.7	1.0	6.5	8.3	8.5	20.2	18.7	19.0
1986	17.7	63.8	10.9	4.9	1.5	4.7	12.9	10.3	5.2	4.9	18.1
1987	5.0	4.8	6.8	2.6	2.4	22.9	17.2	5.7	4.9	7.7	12.7
1988	13.0	16.6	51.7	7.8	4.8	89.6	9.6	4.2	3.5	1.6	8.6

	BE	DE	ES (2)	FR	IT	NL	UK	EC	USA	JAPAN	CANADA
1978-88	8.1	13.5	8.7	5.2	6.7	8.0	3.9	6.2	4.6	7.1	10.9

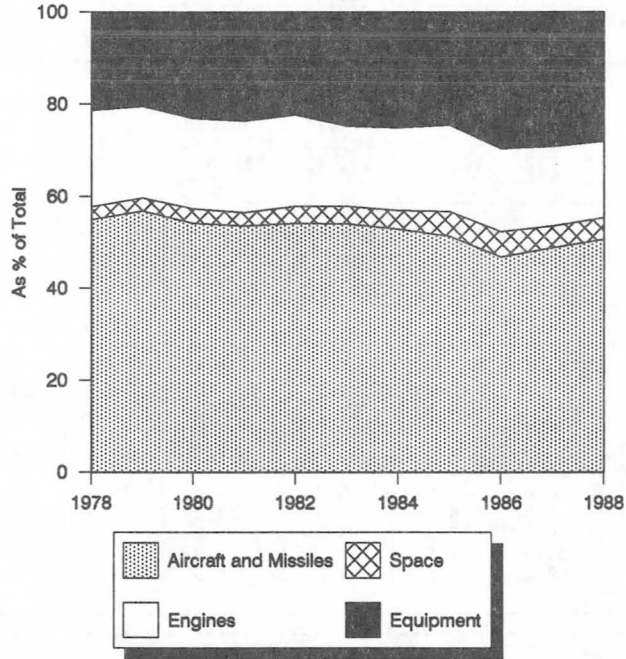
EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88: DG III ESTIMATES

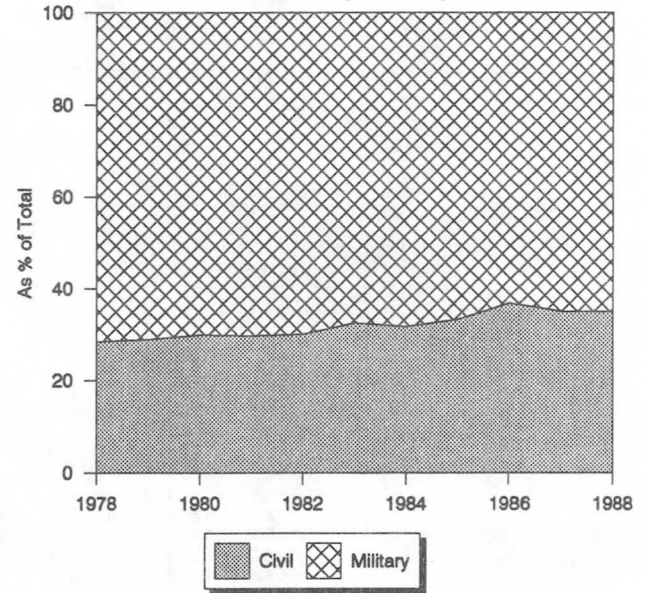
(2) 1983-86: DG III ESTIMATES

EC Aerospace Turnover

Breakdown by Sector



Breakdown by Activity



Source: Industrial Associations

BREAKDOWN OF OVERALL AEROSPACE TURNOVER BY SUBSECTOR (AS % OF TOTAL)

1) EC (1)

	SUBSECTORS				DESTINATION	
	AIRCRAFT AND MISSILES	SPACE	ENGINES	EQUIPMENT	CIVIL	MILITARY
1978	54.9	2.8	20.9	21.5	28.5	71.5
1979	56.8	2.8	19.9	20.5	29.0	71.0
1980	54.2	3.2	19.6	23.1	30.0	70.0
1981	53.5	3.0	19.8	23.7	29.8	70.2
1982	54.1	3.7	19.9	22.3	30.1	69.9
1983	54.0	3.8	17.4	24.9	32.5	67.5
1984	52.9	4.0	17.9	25.2	31.8	68.2
1985	51.3	5.4	18.7	24.5	33.4	66.6
1986	46.8	5.5	18.0	29.7	36.8	63.2
1987	48.8	4.7	17.3	29.3	35.0	65.0
1988	50.6	4.7	16.6	28.1	35.0	65.0

2) USA (2)

	SUBSECTORS				DESTINATION	
	AIRCRAFT AND MISSILES	SPACE	ENGINES	EQUIPMENT	CIVIL	MILITARY
1978	57.7	7.5	17.2	17.6	36.9	63.1
1979	59.2	6.6	17.0	17.1	44.7	55.3
1980	56.1	7.3	16.5	20.0	45.5	54.5
1981	54.2	7.0	17.7	21.0	40.8	59.2
1982	49.2	8.1	17.4	25.3	29.4	70.6
1983	52.0	7.7	16.2	24.2	29.1	70.9
1984	51.7	7.9	17.1	23.3	25.9	74.1
1985	53.6	8.0	15.4	23.0	26.6	73.4
1986	54.3	7.4	15.0	23.3	26.2	73.8
1987	52.7	8.8	17.0	21.6	25.0	75.0
1988	-	-	-	-	29.1	70.9

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88: DG III ESTIMATES

(2) 1988 ESTIMATE

BREAKDOWN OF OVERALL AEROSPACE TURNOVER BY SUBSECTOR (AS % OF TOTAL)

3) JAPAN

	SUBSECTORS				DESTINATION	
	AIRCRAFT AND MISSILES	SPACE	ENGINES	EQUIPMENT	CIVIL	MILITARY
1978	60.8	37.8	20.5	18.7	13.5	86.5
1979	59.2	36.8	20.1	20.8	14.3	85.7
1980	58.5	46.0	21.6	19.9	17.4	82.6
1981	60.8	41.7	21.2	18.0	21.7	78.3
1982	62.7	37.5	19.3	18.0	22.8	77.2
1983	61.1	38.2	18.6	20.3	21.8	78.2
1984	61.1	27.7	19.1	19.8	17.5	82.5
1985	62.9	30.7	18.7	18.4	15.7	84.3
1986	57.5	27.6	19.4	23.2	16.5	83.5
1987	58.2	30.1	18.2	23.6	19.3	80.7
1988	-	33.6	22.4	-	20.2	79.8

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

TOTAL (MIO ECUS AT CURRENT PRICES)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	4,340	5,444	6,576	6,776	7,285	8,188	9,278	10,585	11,915	13,291	14,074
- R-D CONTRACTS	1,439	1,850	2,038	2,061	2,153	2,492	2,866	3,094	3,540	4,148	4,351
- MODIFICATIONS, REPAIRS, MAINTENANCE	664	808	1,055	1,151	1,251	1,236	1,595	1,676	1,957	2,250	2,409
- SALES	2,238	2,786	3,483	3,565	3,880	4,460	4,817	5,815	6,418	6,893	7,314
AEROSPACE MANUFACTURERS	4,134	5,282	7,507	10,411	11,872	12,765	13,301	13,724	16,370	15,667	17,875
- NATIONAL	1,867	2,417	3,142	4,039	4,504	4,607	4,663	4,835	6,018	6,241	6,444
- IN OTHER EC STATES	1,761	2,157	3,116	4,647	5,522	6,303	6,408	5,915	6,430	6,094	7,243
- IN THIRD COUNTRIES	506	707	1,248	1,725	1,846	1,855	2,230	2,973	3,921	3,331	4,189
FINAL USERS	4,372	4,498	6,312	8,222	9,263	9,226	10,000	11,147	11,623	12,722	14,143
- NATIONAL	689	621	847	878	911	850	1,123	1,420	1,562	1,544	1,532
- IN OTHER EC STATES	353	501	1,033	1,008	1,161	928	957	1,093	1,013	1,586	1,615
- IN THIRD COUNTRIES	3,330	3,375	4,432	6,337	7,190	7,449	7,919	8,633	9,048	9,592	10,997
TOTAL	12,846	15,224	20,381	25,404	28,419	30,179	32,596	35,477	39,945	41,661	46,089
EC PUBLIC MARKET.....(1)	4,498	5,602	7,197	7,331	7,983	8,673	9,670	10,973	12,382	14,093	14,895
EC COMMERCIAL MARKET..(2)	4,513	5,540	7,517	10,015	11,399	12,202	12,761	12,876	14,557	14,663	16,012
EXPORTS.....(3)	3,835	4,083	5,681	8,062	9,036	9,304	10,149	11,606	12,969	12,923	15,186

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

TOTAL (AS % OF GRAND TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	33.8	35.8	32.3	26.7	25.6	27.1	28.5	29.8	29.8	31.9	30.5
- R-D CONTRACTS	11.2	12.1	10.0	8.1	7.6	8.3	8.8	8.7	8.9	10.0	9.4
- MODIFICATIONS, REPAIRS, MAINTENANCE	5.2	5.3	5.2	4.5	4.4	4.1	4.9	4.7	4.9	5.4	5.2
- SALES	17.4	18.3	17.1	14.0	13.7	14.8	14.8	16.4	16.1	16.5	15.9
AEROSPACE MANUFACTURERS	32.2	34.7	36.8	41.0	41.8	42.3	40.8	38.7	41.0	37.6	38.8
- NATIONAL	14.5	15.9	15.4	15.9	15.8	15.3	14.3	13.6	15.1	15.0	14.0
- IN OTHER EC STATES	13.7	14.2	15.3	18.3	19.4	20.9	19.7	16.7	16.1	14.6	15.7
- IN THIRD COUNTRIES	3.9	4.6	6.1	6.8	6.5	6.1	6.8	8.4	9.8	8.0	9.1
FINAL USERS	34.0	29.5	31.0	32.4	32.6	30.6	30.7	31.4	29.1	30.5	30.7
- NATIONAL	5.4	4.1	4.2	3.5	3.2	2.8	3.4	4.0	3.9	3.7	3.3
- IN OTHER EC STATES	2.8	3.3	5.1	4.0	4.1	3.1	2.9	3.1	2.5	3.8	3.5
- IN THIRD COUNTRIES	25.9	22.2	21.7	24.9	25.3	24.7	24.3	24.3	22.7	23.0	23.9
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EC PUBLIC MARKET.....(1)	35.0	36.8	35.3	28.9	28.1	28.7	29.7	30.9	31.0	33.8	32.3
EC COMMERCIAL MARKET..(2)	35.1	36.4	36.9	39.4	40.1	40.4	39.1	36.3	36.4	35.2	34.7
EXPORTS.....(3)	29.9	26.8	27.9	31.7	31.8	30.8	31.1	32.7	32.5	31.0	32.9

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

CIVIL SECTOR (MIO ECUS AT CURRENT PRICES)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	394	730	579	572	677	896	739	930	1,439	2,160	2,093
- R-D CONTRACTS	197	187	334	276	347	334	358	548	712	1,310	1,171
- MODIFICATIONS, REPAIRS, MAINTENANCE	34	42	66	68	58	64	58	75	56	168	137
- SALES	163	501	180	228	273	498	324	307	671	682	785
AEROSPACE MANUFACTURERS	1,354	1,766	2,811	3,667	4,564	4,995	5,166	5,950	6,894	6,950	7,598
- NATIONAL	663	901	1,389	1,495	1,644	1,888	1,793	2,049	2,356	2,443	2,649
- IN OTHER EC STATES	416	490	734	1,177	1,872	2,036	1,953	2,229	2,317	2,198	2,531
- IN THIRD COUNTRIES	275	375	687	995	1,048	1,071	1,419	1,672	2,221	2,309	2,418
FINAL USERS	1,916	1,912	2,728	3,336	3,306	3,917	4,460	4,974	6,344	5,470	6,429
- NATIONAL	689	621	847	878	911	850	1,123	1,420	1,562	1,544	1,532
- IN OTHER EC STATES	196	344	412	452	462	442	566	705	547	784	794
- IN THIRD COUNTRIES	1,032	947	1,468	2,006	1,933	2,625	2,770	2,849	4,236	3,142	4,104
TOTAL	3,664	4,408	6,118	7,575	8,548	9,808	10,365	11,853	14,678	14,580	16,120
EC PUBLIC MARKET.....(1)	394	730	579	572	677	896	739	930	1,439	2,160	2,093
EC COMMERCIAL MARKET..(2)	1,964	2,356	3,383	4,002	4,889	5,216	5,436	6,402	6,782	6,969	7,505
EXPORTS.....(3)	1,306	1,322	2,155	3,001	2,981	3,695	4,190	4,521	6,457	5,451	6,522

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

CIVIL SECTOR (AS % OF SECTORAL TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	10.7	16.6	9.5	7.6	7.9	9.1	7.1	7.8	9.8	14.8	13.0
- R-D CONTRACTS	5.4	4.2	5.5	3.6	4.1	3.4	3.5	4.6	4.9	9.0	7.3
- MODIFICATIONS, REPAIRS, MAINTENANCE	0.9	0.9	1.1	0.9	0.7	0.7	0.6	0.6	0.4	1.2	0.9
- SALES	4.4	11.4	2.9	3.0	3.2	5.1	3.1	2.6	4.6	4.7	4.9
AEROSPACE MANUFACTURERS	37.0	40.1	45.9	48.4	53.4	50.9	49.8	50.2	47.0	47.7	47.1
- NATIONAL	18.1	20.4	22.7	19.7	19.2	19.3	17.3	17.3	16.1	16.8	16.4
- IN OTHER EC STATES	11.4	11.1	12.0	15.5	21.9	20.8	18.8	18.8	15.8	15.1	15.7
- IN THIRD COUNTRIES	7.5	8.5	11.2	13.1	12.3	10.9	13.7	14.1	15.1	15.8	15.0
FINAL USERS	52.3	43.4	44.6	44.0	38.7	39.9	43.0	42.0	43.2	37.5	39.9
- NATIONAL	18.8	14.1	13.9	11.6	10.7	8.7	10.8	12.0	10.6	10.6	9.5
- IN OTHER EC STATES	5.3	7.8	6.7	6.0	5.4	4.5	5.5	5.9	3.7	5.4	4.9
- IN THIRD COUNTRIES	28.2	21.5	24.0	26.5	22.6	26.8	26.7	24.0	28.9	21.6	25.5
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EC PUBLIC MARKET.....(1)	10.7	16.6	9.5	7.6	7.9	9.1	7.1	7.8	9.8	14.8	13.0
EC COMMERCIAL MARKET..(2)	53.6	53.4	55.3	52.8	57.2	53.2	52.4	54.0	46.2	47.8	46.6
EXPORTS.....(3)	35.6	30.0	35.2	39.6	34.9	37.7	40.4	38.1	44.0	37.4	40.5

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

CIVIL SECTOR (AS % OF GRAND TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	3.1	4.8	2.8	2.3	2.4	3.0	2.3	2.6	3.6	5.2	4.5
- R-D CONTRACTS	1.5	1.2	1.6	1.1	1.2	1.1	1.1	1.5	1.8	3.1	2.5
- MODIFICATIONS, REPAIRS, MAINTENANCE	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.4	0.3
- SALES	1.3	3.3	0.9	0.9	1.0	1.6	1.0	0.9	1.7	1.6	1.7
AEROSPACE MANUFACTURERS	10.5	11.6	13.8	14.4	16.1	16.6	15.8	16.8	17.3	16.7	16.5
- NATIONAL	5.2	5.9	6.8	5.9	5.8	6.3	5.5	5.8	5.9	5.9	5.7
- IN OTHER EC STATES	3.2	3.2	3.6	4.6	6.6	6.7	6.0	6.3	5.8	5.3	5.5
- IN THIRD COUNTRIES	2.1	2.5	3.4	3.9	3.7	3.5	4.4	4.7	5.6	5.5	5.2
FINAL USERS	14.9	12.6	13.4	13.1	11.6	13.0	13.7	14.0	15.9	13.1	13.9
- NATIONAL	5.4	4.1	4.2	3.5	3.2	2.8	3.4	4.0	3.9	3.7	3.3
- IN OTHER EC STATES	1.5	2.3	2.0	1.8	1.6	1.5	1.7	2.0	1.4	1.9	1.7
- IN THIRD COUNTRIES	8.0	6.2	7.2	7.9	6.8	8.7	8.5	8.0	10.6	7.5	8.9
TOTAL	28.5	29.0	30.0	29.8	30.1	32.5	31.8	33.4	36.7	35.0	35.0
EC PUBLIC MARKET.....(1)	3.1	4.8	2.8	2.3	2.4	3.0	2.3	2.6	3.6	5.2	4.5
EC COMMERCIAL MARKET..(2)	15.3	15.5	16.6	15.8	17.2	17.3	16.7	18.0	17.0	16.7	16.3
EXPORTS.....(3)	10.2	8.7	10.6	11.8	10.5	12.2	12.9	12.7	16.2	13.1	14.2

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

MILITARY SECTOR (MIO ECUS AT CURRENT PRICES)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	3,947	4,714	5,996	6,204	6,607	7,291	8,539	9,655	10,476	11,131	11,981
- R-D CONTRACTS	1,243	1,662	1,704	1,785	1,807	2,157	2,508	2,546	2,828	2,837	3,180
- MODIFICATIONS, REPAIRS, MAINTENANCE	629	767	989	1,083	1,192	1,172	1,537	1,601	1,901	2,082	2,272
- SALES	2,075	2,285	3,304	3,336	3,608	3,962	4,494	5,508	5,747	6,211	6,529
AEROSPACE MANUFACTURERS	2,780	3,515	4,696	6,744	7,307	7,770	8,135	7,774	9,476	8,717	10,277
- NATIONAL	1,203	1,516	1,752	2,544	2,860	2,719	2,870	2,786	3,662	3,798	3,795
- IN OTHER EC STATES	1,345	1,667	2,382	3,470	3,650	4,267	4,455	3,687	4,113	3,896	4,712
- IN THIRD COUNTRIES	231	332	562	730	797	784	810	1,301	1,700	1,023	1,770
FINAL USERS	2,456	2,586	3,585	4,886	5,956	5,309	5,540	6,173	5,279	7,252	7,715
- NATIONAL	-	-	-	-	-	-	-	-	-	-	-
- IN OTHER EC STATES	158	157	621	556	699	486	391	389	467	802	821
- IN THIRD COUNTRIES	2,298	2,429	2,964	4,331	5,257	4,824	5,149	5,784	4,812	6,449	6,893
TOTAL	9,182	10,816	14,277	17,834	19,871	20,371	22,214	23,602	25,230	27,100	29,973
EC PUBLIC MARKET.....(1)	4,104	4,871	6,617	6,759	7,306	7,777	8,930	10,043	10,943	11,933	12,803
EC COMMERCIAL MARKET..(2)	2,549	3,184	4,134	6,014	6,510	6,986	7,325	6,473	7,775	7,695	8,507
EXPORTS.....(3)	2,529	2,761	3,525	5,061	6,055	5,608	5,959	7,085	6,512	7,472	8,664

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

MILITARY SECTOR (AS % OF SECTORAL TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	43.0	43.6	42.0	34.8	33.3	35.8	38.4	40.9	41.5	41.1	40.0
- R-D CONTRACTS	13.5	15.4	11.9	10.0	9.1	10.6	11.3	10.8	11.2	10.5	10.6
- MODIFICATIONS, REPAIRS, MAINTENANCE	6.9	7.1	6.9	6.1	6.0	5.8	6.9	6.8	7.5	7.7	7.6
- SALES	22.6	21.1	23.1	18.7	18.2	19.4	20.2	23.3	22.8	22.9	21.8
AEROSPACE MANUFACTURERS	30.3	32.5	32.9	37.8	36.8	38.1	36.6	32.9	37.6	32.2	34.3
- NATIONAL	13.1	14.0	12.3	14.3	14.4	13.3	12.9	11.8	14.5	14.0	12.7
- IN OTHER EC STATES	14.6	15.4	16.7	19.5	18.4	20.9	20.1	15.6	16.3	14.4	15.7
- IN THIRD COUNTRIES	2.5	3.1	3.9	4.1	4.0	3.9	3.6	5.5	6.7	3.8	5.9
FINAL USERS	26.7	23.9	25.1	27.4	30.0	26.1	24.9	26.2	20.9	26.8	25.7
- NATIONAL	-	-	-	-	-	-	-	-	-	-	-
- IN OTHER EC STATES	1.7	1.5	4.3	3.1	3.5	2.4	1.8	1.6	1.8	3.0	2.7
- IN THIRD COUNTRIES	25.0	22.5	20.8	24.3	26.5	23.7	23.2	24.5	19.1	23.8	23.0
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EC PUBLIC MARKET.....(1)	44.7	45.0	46.3	37.9	36.8	38.2	40.2	42.6	43.4	44.0	42.7
EC COMMERCIAL MARKET..(2)	27.8	29.4	29.0	33.7	32.8	34.3	33.0	27.4	30.8	28.4	28.4
EXPORTS.....(3)	27.5	25.5	24.7	28.4	30.5	27.5	26.8	30.0	25.8	27.6	28.9

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

MILITARY SECTOR (AS % OF GRAND TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	30.7	31.0	29.4	24.4	23.2	24.2	26.2	27.2	26.2	26.7	26.0
- R-D CONTRACTS	9.7	10.9	8.4	7.0	6.4	7.1	7.7	7.2	7.1	6.8	6.9
- MODIFICATIONS, REPAIRS, MAINTENANCE	4.9	5.0	4.9	4.3	4.2	3.9	4.7	4.5	4.8	5.0	4.9
- SALES	16.1	15.0	16.2	13.1	12.7	13.1	13.8	15.5	14.4	14.9	14.2
AEROSPACE MANUFACTURERS	21.6	23.1	23.0	26.5	25.7	25.7	25.0	21.9	23.7	20.9	22.3
- NATIONAL	9.4	10.0	8.6	10.0	10.1	9.0	8.8	7.9	9.2	9.1	8.2
- IN OTHER EC STATES	10.5	11.0	11.7	13.7	12.8	14.1	13.7	10.4	10.3	9.4	10.2
- IN THIRD COUNTRIES	1.8	2.2	2.8	2.9	2.8	2.6	2.5	3.7	4.3	2.5	3.8
FINAL USERS	19.1	17.0	17.6	19.2	21.0	17.6	17.0	17.4	13.2	17.4	16.7
- NATIONAL	-	-	-	-	-	-	-	-	-	-	-
- IN OTHER EC STATES	1.2	1.0	3.0	2.2	2.5	1.6	1.2	1.1	1.2	1.9	1.8
- IN THIRD COUNTRIES	17.9	16.0	14.5	17.0	18.5	16.0	15.8	16.3	12.0	15.5	15.0
TOTAL	71.5	71.0	70.1	70.2	69.9	67.5	68.1	66.5	63.2	65.0	65.0
EC PUBLIC MARKET.....(1)	32.0	32.0	32.5	26.6	25.7	25.8	27.4	28.3	27.4	28.6	27.8
EC COMMERCIAL MARKET..(2)	19.8	20.9	20.3	23.7	22.9	23.1	22.5	18.2	19.5	18.5	18.5
EXPORTS.....(3)	19.7	18.1	17.3	19.9	21.3	18.6	18.3	20.0	16.3	17.9	18.8

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

AIRFRAME AND MISSILES SECTOR (MIO ECUS AT CURRENT PRICES)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	2,479	3,556	3,699	3,697	3,815	4,248	4,486	5,554	5,793	6,311	6,643
- R-D CONTRACTS	769	1,169	1,093	1,133	1,137	1,312	1,579	1,633	1,937	2,011	2,206
- MODIFICATIONS, REPAIRS, MAINTENANCE	344	487	554	600	657	626	815	833	962	1,102	1,184
- SALES	1,366	1,900	2,052	1,963	2,021	2,310	2,092	3,088	2,894	3,198	3,252
AEROSPACE MANUFACTURERS	1,533	2,059	3,042	4,017	4,786	5,456	5,402	5,165	5,942	5,696	7,321
- NATIONAL	536	737	938	1,212	1,356	1,441	1,344	1,314	1,406	1,618	1,790
- IN OTHER EC STATES	840	1,100	1,744	2,432	2,924	3,626	3,644	3,105	3,064	3,317	4,081
- IN THIRD COUNTRIES	157	221	361	374	506	389	415	746	1,472	761	1,450
FINAL USERS	3,035	3,038	4,302	5,875	6,785	6,590	7,353	7,464	6,954	8,317	9,347
- NATIONAL	328	245	349	410	473	335	500	569	368	458	472
- IN OTHER EC STATES	163	222	592	514	714	548	501	602	279	687	722
- IN THIRD COUNTRIES	2,544	2,571	3,361	4,951	5,599	5,708	6,351	6,293	6,307	7,171	8,153
TOTAL	7,048	8,653	11,044	13,589	15,386	16,294	17,241	18,182	18,688	20,323	23,310
EC PUBLIC MARKET.....(1)	2,538	3,617	4,122	4,051	4,323	4,551	4,746	5,824	5,896	6,634	7,022
EC COMMERCIAL MARKET..(2)	1,809	2,243	3,200	4,214	4,958	5,646	5,729	5,319	5,013	5,757	6,685
EXPORTS.....(3)	2,701	2,792	3,721	5,325	6,104	6,097	6,766	7,039	7,779	7,932	9,603

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

AIRFRAME AND MISSILES SECTOR (AS % OF SECTORAL TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	35.2	41.1	33.5	27.2	24.8	26.1	26.0	30.5	31.0	31.1	28.5
- R-D CONTRACTS	10.9	13.5	9.9	8.3	7.4	8.1	9.2	9.0	10.4	9.9	9.5
- MODIFICATIONS, REPAIRS, MAINTENANCE	4.9	5.6	5.0	4.4	4.3	3.8	4.7	4.6	5.1	5.4	5.1
- SALES	19.4	22.0	18.6	14.4	13.1	14.2	12.1	17.0	15.5	15.7	14.0
AEROSPACE MANUFACTURERS	21.8	23.8	27.5	29.6	31.1	33.5	31.3	28.4	31.8	28.0	31.4
- NATIONAL	7.6	8.5	8.5	8.9	8.8	8.8	7.8	7.2	7.5	8.0	7.7
- IN OTHER EC STATES	11.9	12.7	15.8	17.9	19.0	22.3	21.1	17.1	16.4	16.3	17.5
- IN THIRD COUNTRIES	2.2	2.6	3.3	2.8	3.3	2.4	2.4	4.1	7.9	3.7	6.2
FINAL USERS	43.1	35.1	39.0	43.2	44.1	40.4	42.6	41.0	37.2	40.9	40.1
- NATIONAL	4.7	2.8	3.2	3.0	3.1	2.1	2.9	3.1	2.0	2.3	2.0
- IN OTHER EC STATES	2.3	2.6	5.4	3.8	4.6	3.4	2.9	3.3	1.5	3.4	3.1
- IN THIRD COUNTRIES	36.1	29.7	30.4	36.4	36.4	35.0	36.8	34.6	33.7	35.3	35.0
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EC PUBLIC MARKET.....(1)	36.0	41.8	37.3	29.8	28.1	27.9	27.5	32.0	31.6	32.6	30.1
EC COMMERCIAL MARKET..(2)	25.7	25.9	29.0	31.0	32.2	34.7	33.2	29.3	26.8	28.3	28.7
EXPORTS.....(3)	38.3	32.3	33.7	39.2	39.7	37.4	39.2	38.7	41.6	39.0	41.2

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

AIRFRAME AND MISSILES SECTOR (AS % OF GRAND TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	19.3	23.4	18.1	14.6	13.4	14.1	13.8	15.7	14.5	15.1	14.4
- R-D CONTRACTS	6.0	7.7	5.4	4.5	4.0	4.3	4.8	4.6	4.9	4.8	4.8
- MODIFICATIONS, REPAIRS, MAINTENANCE	2.7	3.2	2.7	2.4	2.3	2.1	2.5	2.3	2.4	2.6	2.6
- SALES	10.6	12.5	10.1	7.7	7.1	7.7	6.4	8.7	7.2	7.7	7.1
AEROSPACE MANUFACTURERS	11.9	13.5	14.9	15.8	16.8	18.1	16.6	14.6	14.9	13.7	15.9
- NATIONAL	4.2	4.8	4.6	4.8	4.8	4.8	4.1	3.7	3.5	3.9	3.9
- IN OTHER EC STATES	6.5	7.2	8.6	9.6	10.3	12.0	11.2	8.8	7.7	8.0	8.9
- IN THIRD COUNTRIES	1.2	1.5	1.8	1.5	1.8	1.3	1.3	2.1	3.7	1.8	3.1
FINAL USERS	23.6	20.0	21.1	23.1	23.9	21.8	22.6	21.0	17.4	20.0	20.3
- NATIONAL	2.6	1.6	1.7	1.6	1.7	1.1	1.5	1.6	0.9	1.1	1.0
- IN OTHER EC STATES	1.3	1.5	2.9	2.0	2.5	1.8	1.5	1.7	0.7	1.6	1.6
- IN THIRD COUNTRIES	19.8	16.9	16.5	19.5	19.7	18.9	19.5	17.7	15.8	17.2	17.7
TOTAL	54.9	56.8	54.2	53.5	54.1	54.0	52.9	51.3	46.8	48.8	50.6
EC PUBLIC MARKET.....(1)	19.8	23.8	20.2	15.9	15.2	15.1	14.6	16.4	14.8	15.9	15.2
EC COMMERCIAL MARKET..(2)	14.1	14.7	15.7	16.6	17.4	18.7	17.6	15.0	12.5	13.8	14.5
EXPORTS.....(3)	21.0	18.3	18.3	21.0	21.5	20.2	20.8	19.8	19.5	19.0	20.8

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

SPACE SECTOR (MIO ECUS AT CURRENT PRICES)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	110	115	229	242	351	450	472	737	482	732	755
- R-D CONTRACTS	90	86	210	152	214	259	282	478	234	487	445
- MODIFICATIONS, REPAIRS, MAINTENANCE	0	3	5	1	3	5	6	19	16	18	18
- SALES	20	25	15	90	134	185	184	241	232	228	292
AEROSPACE MANUFACTURERS	135	152	196	277	534	509	507	661	832	704	843
- NATIONAL	32	55	56	102	147	95	110	216	258	316	294
- IN OTHER EC STATES	94	91	120	159	362	353	338	412	516	319	479
- IN THIRD COUNTRIES	9	6	20	16	24	61	59	32	58	68	69
FINAL USERS	114	165	218	256	161	174	331	524	877	506	589
- NATIONAL	9	6	10	14	13	17	95	219	342	192	228
- IN OTHER EC STATES	48	115	145	180	81	91	184	221	170	157	211
- IN THIRD COUNTRIES	56	44	62	62	67	66	52	85	365	158	150
TOTAL	359	432	643	775	1,046	1,132	1,310	1,923	2,190	1,942	2,187
EC PUBLIC MARKET.....(1)	110	115	230	242	351	450	472	737	482	732	755
EC COMMERCIAL MARKET..(2)	183	267	332	455	603	555	727	1,068	1,286	984	1,213
EXPORTS.....(3)	65	50	82	77	91	127	111	117	423	226	219

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

SPACE SECTOR (AS % OF SECTORAL TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	30.7	26.6	35.7	31.2	33.6	39.7	36.0	38.4	22.0	37.7	34.5
- R-D CONTRACTS	25.1	19.9	32.6	19.6	20.5	22.9	21.5	24.9	10.7	25.1	20.4
- MODIFICATIONS, REPAIRS, MAINTENANCE	0.1	0.8	0.7	0.1	0.3	0.5	0.5	1.0	0.7	0.9	0.8
- SALES	5.6	5.9	2.4	11.6	12.8	16.4	14.1	12.5	10.6	11.7	13.3
AEROSPACE MANUFACTURERS	37.5	35.2	30.5	35.7	51.0	44.9	38.7	34.4	38.0	36.2	38.5
- NATIONAL	9.0	12.8	8.8	13.2	14.1	8.4	8.4	11.3	11.8	16.3	13.5
- IN OTHER EC STATES	26.1	21.0	18.6	20.5	34.6	31.1	25.8	21.4	23.6	16.4	21.9
- IN THIRD COUNTRIES	2.5	1.4	3.1	2.0	2.3	5.4	4.5	1.7	2.7	3.5	3.1
FINAL USERS	31.8	38.2	33.9	33.0	15.4	15.3	25.3	27.3	40.0	26.1	26.9
- NATIONAL	2.6	1.3	1.6	1.9	1.2	1.5	7.2	11.4	15.6	9.9	10.4
- IN OTHER EC STATES	13.4	26.7	22.6	23.2	7.8	8.1	14.1	11.5	7.8	8.1	9.7
- IN THIRD COUNTRIES	15.7	10.1	9.7	7.9	6.4	5.8	4.0	4.4	16.6	8.1	6.8
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EC PUBLIC MARKET.....(1)	30.7	26.6	35.7	31.2	33.6	39.7	36.0	38.4	22.0	37.7	34.5
EC COMMERCIAL MARKET..(2)	51.0	61.9	51.6	58.8	57.7	49.0	55.5	55.6	58.7	50.7	55.5
EXPORTS.....(3)	18.2	11.5	12.7	10.0	8.7	11.2	8.5	6.1	19.3	11.7	10.0

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

SPACE SECTOR (AS % OF GRAND TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	0.9	0.8	1.1	1.0	1.2	1.5	1.4	2.1	1.2	1.8	1.6
- R-D CONTRACTS	0.7	0.6	1.0	0.6	0.8	0.9	0.9	1.3	0.6	1.2	1.0
- MODIFICATIONS, REPAIRS, MAINTENANCE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
- SALES	0.2	0.2	0.1	0.4	0.5	0.6	0.6	0.7	0.6	0.5	0.6
AEROSPACE MANUFACTURERS	1.0	1.0	1.0	1.1	1.9	1.7	1.6	1.9	2.1	1.7	1.8
- NATIONAL	0.3	0.4	0.3	0.4	0.5	0.3	0.3	0.6	0.6	0.8	0.6
- IN OTHER EC STATES	0.7	0.6	0.6	0.6	1.3	1.2	1.0	1.2	1.3	0.8	1.0
- IN THIRD COUNTRIES	0.1	0.0	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.1
FINAL USERS	0.9	1.1	1.1	1.0	0.6	0.6	1.0	1.5	2.2	1.2	1.3
- NATIONAL	0.1	0.0	0.1	0.1	0.0	0.1	0.3	0.6	0.9	0.5	0.5
- IN OTHER EC STATES	0.4	0.8	0.7	0.7	0.3	0.3	0.6	0.6	0.4	0.4	0.5
- IN THIRD COUNTRIES	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.9	0.4	0.3
TOTAL	2.8	2.8	3.2	3.0	3.7	3.8	4.0	5.4	5.5	4.7	4.7
EC PUBLIC MARKET.....(1)	0.9	0.8	1.1	1.0	1.2	1.5	1.4	2.1	1.2	1.8	1.6
EC COMMERCIAL MARKET..(2)	1.4	1.8	1.6	1.8	2.1	1.8	2.2	3.0	3.2	2.4	2.6
EXPORTS.....(3)	0.5	0.3	0.4	0.3	0.3	0.4	0.3	0.3	1.1	0.5	0.5

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

ENGINE SECTOR (MIO ECUS AT CURRENT PRICES)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	917	907	1,213	1,175	1,281	1,255	1,367	1,351	1,534	1,697	1,761
- R-D CONTRACTS	344	358	290	324	346	375	290	322	251	386	372
- MODIFICATIONS, REPAIRS, MAINTENANCE	157	164	286	297	325	326	383	368	350	459	466
- SALES	416	385	637	553	610	555	694	662	933	852	923
AEROSPACE MANUFACTURERS	1,065	1,354	1,722	2,704	2,966	2,828	3,251	3,477	3,786	3,634	3,925
- NATIONAL	339	510	627	877	975	738	775	951	884	902	1,001
- IN OTHER EC STATES	511	556	573	1,041	1,156	1,205	1,398	1,263	1,365	1,199	1,348
- IN THIRD COUNTRIES	216	288	522	786	836	886	1,078	1,263	1,537	1,533	1,577
FINAL USERS	699	761	1,063	1,149	1,394	1,165	1,212	1,822	1,861	1,884	1,964
- NATIONAL	203	221	286	234	214	294	237	293	440	370	325
- IN OTHER EC STATES	52	71	164	146	213	143	124	108	120	359	295
- IN THIRD COUNTRIES	443	469	612	769	967	728	851	1,420	1,301	1,154	1,344
TOTAL	2,682	3,022	3,998	5,028	5,642	5,249	5,829	6,650	7,181	7,215	7,650
EC PUBLIC MARKET.....(1)	952	962	1,337	1,287	1,358	1,334	1,434	1,380	1,607	1,976	1,969
EC COMMERCIAL MARKET..(2)	1,070	1,303	1,528	2,186	2,481	2,301	2,466	2,587	2,736	2,551	2,760
EXPORTS.....(3)	659	757	1,134	1,555	1,803	1,613	1,929	2,682	2,839	2,688	2,921

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

ENGINE SECTOR (AS % OF SECTORAL TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	34.2	30.0	30.3	23.4	22.7	23.9	23.4	20.3	21.4	23.5	23.0
- R-D CONTRACTS	12.8	11.8	7.3	6.4	6.1	7.1	5.0	4.8	3.5	5.3	4.9
- MODIFICATIONS, REPAIRS, MAINTENANCE	5.9	5.4	7.2	5.9	5.8	6.2	6.6	5.5	4.9	6.4	6.1
- SALES	15.5	12.7	15.9	11.0	10.8	10.6	11.9	10.0	13.0	11.8	12.1
AEROSPACE MANUFACTURERS	39.7	44.8	43.1	53.8	52.6	53.9	55.8	52.3	52.7	50.4	51.3
- NATIONAL	12.6	16.9	15.7	17.4	17.3	14.1	13.3	14.3	12.3	12.5	13.1
- IN OTHER EC STATES	19.0	18.4	14.3	20.7	20.5	23.0	24.0	19.0	19.0	16.6	17.6
- IN THIRD COUNTRIES	8.1	9.5	13.1	15.6	14.8	16.9	18.5	19.0	21.4	21.3	20.6
FINAL USERS	26.1	25.2	26.6	22.8	24.7	22.2	20.8	27.4	25.9	26.1	25.7
- NATIONAL	7.6	7.3	7.2	4.6	3.8	5.6	4.1	4.4	6.1	5.1	4.2
- IN OTHER EC STATES	2.0	2.4	4.1	2.9	3.8	2.7	2.1	1.6	1.7	5.0	3.9
- IN THIRD COUNTRIES	16.5	15.5	15.3	15.3	17.1	13.9	14.6	21.4	18.1	16.0	17.6
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EC PUBLIC MARKET.....(1)	35.5	31.8	33.4	25.6	24.1	25.4	24.6	20.8	22.4	27.4	25.7
EC COMMERCIAL MARKET..(2)	39.9	43.1	38.2	43.5	44.0	43.8	42.3	38.9	38.1	35.4	36.1
EXPORTS.....(3)	24.6	25.0	28.4	30.9	32.0	30.7	33.1	40.3	39.5	37.3	38.2

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

ENGINE SECTOR (AS % OF GRAND TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	7.1	6.0	6.0	4.6	4.5	4.2	4.2	3.8	3.8	4.1	3.8
- R-D CONTRACTS	2.7	2.3	1.4	1.3	1.2	1.2	0.9	0.9	0.6	0.9	0.8
- MODIFICATIONS, REPAIRS, MAINTENANCE	1.2	1.1	1.4	1.2	1.1	1.1	1.2	1.0	0.9	1.1	1.0
- SALES	3.2	2.5	3.1	2.2	2.1	1.8	2.1	1.9	2.3	2.0	2.0
AEROSPACE MANUFACTURERS	8.3	8.9	8.5	10.6	10.4	9.4	10.0	9.8	9.5	8.7	8.5
- NATIONAL	2.6	3.4	3.1	3.5	3.4	2.4	2.4	2.7	2.2	2.2	2.2
- IN OTHER EC STATES	4.0	3.7	2.8	4.1	4.1	4.0	4.3	3.6	3.4	2.9	2.9
- IN THIRD COUNTRIES	1.7	1.9	2.6	3.1	2.9	2.9	3.3	3.6	3.8	3.7	3.4
FINAL USERS	5.4	5.0	5.2	4.5	4.9	3.9	3.7	5.1	4.7	4.5	4.3
- NATIONAL	1.6	1.4	1.4	0.9	0.8	1.0	0.7	0.8	1.1	0.9	0.7
- IN OTHER EC STATES	0.4	0.5	0.8	0.6	0.7	0.5	0.4	0.3	0.3	0.9	0.6
- IN THIRD COUNTRIES	3.5	3.1	3.0	3.0	3.4	2.4	2.6	4.0	3.3	2.8	2.9
TOTAL	20.9	19.9	19.6	19.8	19.9	17.4	17.9	18.7	18.0	17.3	16.6
EC PUBLIC MARKET.....(1)	7.4	6.3	6.6	5.1	4.8	4.4	4.4	3.9	4.0	4.7	4.3
EC COMMERCIAL MARKET..(2)	8.3	8.6	7.5	8.6	8.7	7.6	7.6	7.3	6.8	6.1	6.0
EXPORTS.....(3)	5.1	5.0	5.6	6.1	6.3	5.3	5.9	7.6	7.1	6.5	6.3

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

EQUIPMENT SECTOR (MIO ECUS AT CURRENT PRICES)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	834	866	1,434	1,663	1,837	2,234	2,953	2,942	4,106	4,551	4,915
- R-D CONTRACTS	236	237	444	451	456	546	715	661	1,118	1,265	1,327
- MODIFICATIONS, REPAIRS, MAINTENANCE	163	153	210	253	266	278	391	456	630	672	742
- SALES	435	476	779	958	1,115	1,410	1,848	1,824	2,358	2,614	2,846
AEROSPACE MANUFACTURERS	1,401	1,717	2,546	3,412	3,586	3,973	4,142	4,422	5,811	5,634	5,787
- NATIONAL	960	1,115	1,521	1,847	2,026	2,334	2,435	2,354	3,471	3,405	3,359
- IN OTHER EC STATES	317	410	679	1,015	1,080	1,120	1,029	1,136	1,486	1,260	1,335
- IN THIRD COUNTRIES	124	192	346	549	480	519	678	933	854	969	1,093
FINAL USERS	523	534	730	942	923	1,297	1,104	1,337	1,932	2,015	2,244
- NATIONAL	148	150	201	219	211	204	291	340	413	524	507
- IN OTHER EC STATES	89	93	131	167	153	145	148	162	444	383	387
- IN THIRD COUNTRIES	286	291	398	556	558	947	665	836	1,075	1,108	1,349
TOTAL	2,758	3,117	4,710	6,017	6,346	7,504	8,199	8,701	11,849	12,199	12,946
EC PUBLIC MARKET.....(1)	898	908	1,508	1,752	1,951	2,338	3,017	3,031	4,397	4,750	5,150
EC COMMERCIAL MARKET..(2)	1,450	1,726	2,458	3,160	3,357	3,699	3,839	3,901	5,523	5,372	5,354
EXPORTS.....(3)	409	483	744	1,105	1,037	1,466	1,343	1,769	1,928	2,077	2,443

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

EQUIPMENT SECTOR (AS % OF SECTORAL TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	30.2	27.8	30.4	27.6	29.0	29.8	36.0	33.8	34.7	37.3	38.0
- R-D CONTRACTS	8.6	7.6	9.4	7.5	7.2	7.3	8.7	7.6	9.4	10.4	10.3
- MODIFICATIONS, REPAIRS, MAINTENANCE	5.9	4.9	4.5	4.2	4.2	3.7	4.8	5.2	5.3	5.5	5.7
- SALES	15.8	15.3	16.5	15.9	17.6	18.8	22.5	21.0	19.9	21.4	22.0
AEROSPACE MANUFACTURERS	50.8	55.1	54.1	56.7	56.5	52.9	50.5	50.8	49.0	46.2	44.7
- NATIONAL	34.8	35.8	32.3	30.7	31.9	31.1	29.7	27.1	29.3	27.9	25.9
- IN OTHER EC STATES	11.5	13.2	14.4	16.9	17.0	14.9	12.5	13.1	12.5	10.3	10.3
- IN THIRD COUNTRIES	4.5	6.2	7.4	9.1	7.6	6.9	8.3	10.7	7.2	7.9	8.4
FINAL USERS	19.0	17.1	15.5	15.7	14.5	17.3	13.5	15.4	16.3	16.5	17.3
- NATIONAL	5.4	4.8	4.3	3.6	3.3	2.7	3.5	3.9	3.5	4.3	3.9
- IN OTHER EC STATES	3.2	3.0	2.8	2.8	2.4	1.9	1.8	1.9	3.7	3.1	3.0
- IN THIRD COUNTRIES	10.4	9.3	8.4	9.2	8.8	12.6	8.1	9.6	9.1	9.1	10.4
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
EC PUBLIC MARKET.....(1)	32.6	29.1	32.0	29.1	30.8	31.2	36.8	34.8	37.1	38.9	39.8
EC COMMERCIAL MARKET..(2)	52.6	55.4	52.2	52.5	52.9	49.3	46.8	44.8	46.6	44.0	41.4
EXPORTS.....(3)	14.8	15.5	15.8	18.4	16.3	19.5	16.4	20.3	16.3	17.0	18.9

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER

EQUIPMENT SECTOR (AS % OF GRAND TOTAL)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
NATIONAL STATE	6.5	5.7	7.0	6.5	6.5	7.4	9.1	8.3	10.3	10.9	10.7
- R-D CONTRACTS	1.8	1.6	2.2	1.8	1.6	1.8	2.2	1.9	2.8	3.0	2.9
- MODIFICATIONS, REPAIRS, MAINTENANCE	1.3	1.0	1.0	1.0	0.9	0.9	1.2	1.3	1.6	1.6	1.6
- SALES	3.4	3.1	3.8	3.8	3.9	4.7	5.7	5.1	5.9	6.3	6.2
AEROSPACE MANUFACTURERS	10.9	11.3	12.5	13.4	12.6	13.2	12.7	12.5	14.5	13.5	12.6
- NATIONAL	7.5	7.3	7.5	7.3	7.1	7.7	7.5	6.6	8.7	8.2	7.3
- IN OTHER EC STATES	2.5	2.7	3.3	4.0	3.8	3.7	3.2	3.2	3.7	3.0	2.9
- IN THIRD COUNTRIES	1.0	1.3	1.7	2.2	1.7	1.7	2.1	2.6	2.1	2.3	2.4
FINAL USERS	4.1	3.5	3.6	3.7	3.2	4.3	3.4	3.8	4.8	4.8	4.9
- NATIONAL	1.2	1.0	1.0	0.9	0.7	0.7	0.9	1.0	1.0	1.3	1.1
- IN OTHER EC STATES	0.7	0.6	0.6	0.7	0.5	0.5	0.5	0.5	1.1	0.9	0.8
- IN THIRD COUNTRIES	2.2	1.9	2.0	2.2	2.0	3.1	2.0	2.4	2.7	2.7	2.9
TOTAL	21.5	20.5	23.1	23.7	22.3	24.9	25.2	24.5	29.7	29.3	28.1
EC PUBLIC MARKET.....(1)	7.0	6.0	7.4	6.9	6.9	7.7	9.3	8.5	11.0	11.4	11.2
EC COMMERCIAL MARKET..(2)	11.3	11.3	12.1	12.4	11.8	12.3	11.8	11.0	13.8	12.9	11.6
EXPORTS.....(3)	3.2	3.2	3.6	4.4	3.7	4.9	4.1	5.0	4.8	5.0	5.3

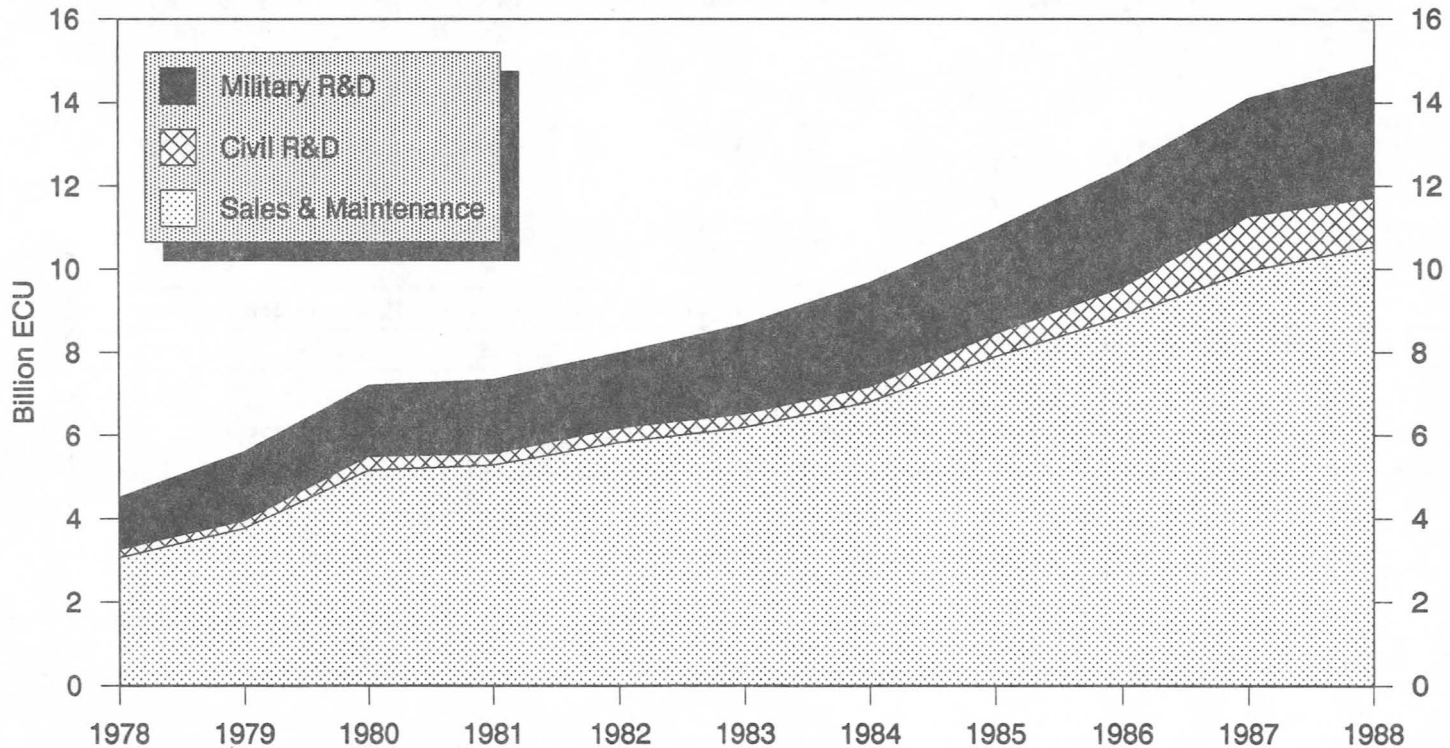
EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) NATIONAL STATE + OTHER EC FINAL MILITARY USERS

(2) NATIONAL AND OTHER EC CIVIL AND MILITARY MANUFACTURERS AND FINAL CIVIL USERS

(3) MANUFACTURERS AND FINAL USERS OF THIRD COUNTRIES

Public Support to the EC Aerospace Industry



EC - DG III / Source: Industrial Associations

BREAKDOWN OF PUBLIC SUPPORT TO THE AEROSPACE INDUSTRY BY CONTRACT TYPE

(MIO ECU AT CURRENT PRICES)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
EC											
R-D	1,439	1,850	2,038	2,061	2,153	2,492	2,866	3,094	3,540	4,148	4,351
- CIVIL	197	187	334	276	347	334	358	548	712	1,310	1,171
- MILITARY	1,243	1,662	1,704	1,785	1,807	2,157	2,508	2,546	2,828	2,837	3,180
SALES AND MAINTENANCE	3,059	3,752	5,159	5,271	5,830	6,181	6,804	7,880	8,842	9,946	10,544
- CIVIL	197	543	246	296	331	562	381	382	727	850	922
- MILITARY	2,861	3,209	4,913	4,975	5,499	5,619	6,423	7,498	8,115	9,096	9,623
TOTAL	4,498	5,602	7,197	7,331	7,983	8,673	9,670	10,973	12,382	14,093	14,895
AS % OF FINAL TURNOVER	41.0%	43.7%	41.7%	34.3%	33.4%	33.9%	34.6%	35.8%	36.5%	39.8%	37.6%
USA											
R-D	4,484	4,261	4,760	7,639	9,978	11,688	15,498	17,987	12,294	-	16,250
SALES AND MAINTENANCE	10,307	12,387	15,200	21,922	31,407	39,607	47,451	58,330	51,612	-	-
TOTAL	14,791	16,648	19,960	29,561	41,386	51,295	62,948	76,317	63,906	-	-
AS % OF TURNOVER	60.5%	59.3%	58.6%	60.2%	69.0%	71.2%	74.8%	73.9%	73.9%	-	-

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

BREAKDOWN OF PUBLIC SUPPORT TO THE AEROSPACE INDUSTRY BY CONTRACT TYPE

(AS % OF TOTAL SUPPORT)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
EC											
R-D	32.0	33.0	28.3	28.1	27.0	28.7	29.6	28.2	28.6	29.4	29.2
- CIVIL	4.4	3.3	4.6	3.8	4.3	3.9	3.7	5.0	5.8	9.3	7.9
- MILITARY	27.6	29.7	23.7	24.3	22.6	24.9	25.9	23.2	22.8	20.1	21.3
SALES AND MAINTENANCE	68.0	67.0	71.7	71.9	73.0	71.3	70.4	71.8	71.4	70.6	70.8
- CIVIL	4.4	9.7	3.4	4.0	4.1	6.5	3.9	3.5	5.9	6.0	6.2
- MILITARY	63.6	57.3	68.3	67.9	68.9	64.8	66.4	68.3	65.5	64.5	64.6
USA											
R-D	30.3	25.6	23.8	25.8	24.1	22.8	24.6	23.6	19.2	-	-
SALES AND MAINTENANCE	69.7	74.4	76.2	74.2	75.9	77.2	75.4	76.4	80.8	-	-

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

BREAKDOWN OF PUBLIC SUPPORT FOR THE EC AEROSPACE INDUSTRY BY CONTRACT AND SUBSECTOR

(MIO ECU AT CURRENT PRICES)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
AIRFRAMES AND MISSILES											
- R-D.....CIVIL	69	70	101	103	103	123	53	47	266	417	397
MILITARY	701	1,099	992	1,030	1,034	1,189	1,527	1,586	1,671	1,594	1,809
- SALES +.....CIVIL	112	455	106	95	129	285	115	82	154	147	210
MAINTENANCE....MILITARY	1,597	1,933	2,500	2,468	2,548	2,651	2,791	3,839	3,702	4,154	4,227
- INTRA-EC MILITARY SALES	58	61	423	354	508	303	260	271	103	323	379
TOTAL	2,538	3,617	4,122	4,051	4,323	4,551	4,746	5,824	5,896	6,634	7,022
SPACE											
- R-D.....CIVIL	86	83	196	145	208	180	275	471	231	485	441
MILITARY	4	3	14	7	6	79	6	7	3	1	5
- SALES +.....CIVIL	19	25	6	85	108	177	184	184	160	217	262
MAINTENANCE....MILITARY	2	4	14	6	29	14	6	76	88	28	47
- INTRA-EC MILITARY SALES	0	0	0	0	0	0	0	0	0	0	0
TOTAL	110	115	230	242	351	450	472	737	482	732	755
ENGINES											
- R-D.....CIVIL	36	29	29	21	31	24	16	20	33	45	46
MILITARY	308	328	261	303	315	351	273	301	218	340	326
- SALES +.....CIVIL	21	29	72	56	45	28	31	24	111	99	88
MAINTENANCE....MILITARY	552	520	851	794	890	852	1,046	1,006	1,173	1,213	1,300
- INTRA-EC MILITARY SALES	35	55	123	112	76	78	68	29	73	279	208
TOTAL	952	962	1,337	1,287	1,358	1,334	1,434	1,380	1,607	1,976	1,969
EQUIPMENT											
- R-D.....CIVIL	6	5	7	7	4	7	14	10	182	363	287
MILITARY	230	232	437	445	451	539	701	651	937	902	1,040
- SALES +.....CIVIL	45	35	63	60	48	72	51	93	303	387	361
MAINTENANCE....MILITARY	553	594	927	1,152	1,333	1,617	2,188	2,188	2,685	2,899	3,227
- INTRA-EC MILITARY SALES	65	42	74	89	114	104	64	89	291	200	234
TOTAL	898	908	1,508	1,752	1,951	2,338	3,017	3,031	4,397	4,750	5,150

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

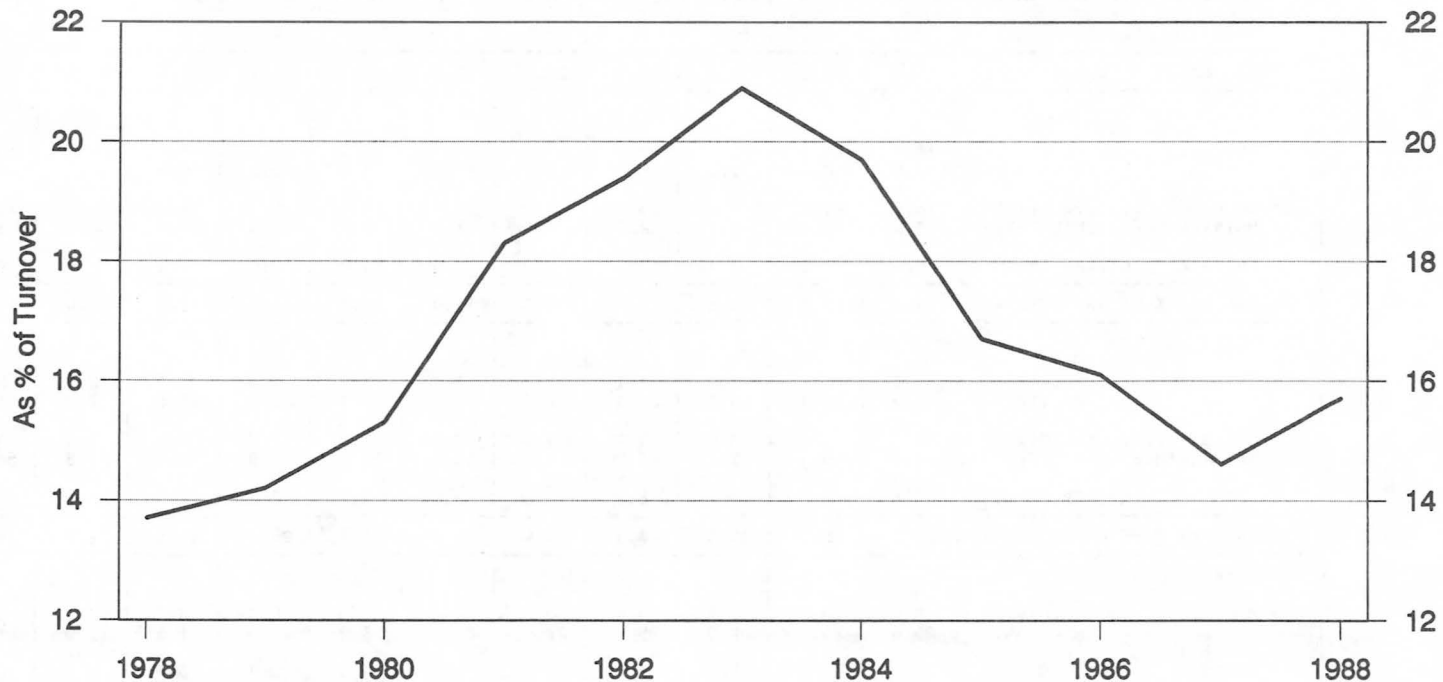
BREAKDOWN OF PUBLIC SUPPORT FOR THE EC AEROSPACE INDUSTRY BY CONTRACT AND SUBSECTOR

(AS % OF SUBSECTOR)

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987E	1988E
AIRFRAMES AND MISSILES											
- R-D.....CIVIL	2.7	1.9	2.4	2.5	2.4	2.7	1.1	0.8	4.5	6.3	5.6
MILITARY	27.6	30.4	24.1	25.4	23.9	26.1	32.2	27.2	28.3	24.0	25.8
- SALES +.....CIVIL	4.4	12.6	2.6	2.3	3.0	6.3	2.4	1.4	2.6	2.2	3.0
MAINTENANCE...MILITARY	62.9	53.4	60.6	60.9	58.9	58.2	58.8	65.9	62.8	62.6	60.2
- INTRA-EC MILITARY SALES	2.3	1.7	10.3	8.7	11.8	6.7	5.5	4.6	1.7	4.9	5.4
TOTAL (AS % OF GRAND TOTAL)	56.4	64.6	57.3	55.2	54.1	52.5	49.1	53.1	47.6	47.1	47.1
SPACE											
- R-D.....CIVIL	78.1	72.0	85.4	59.9	59.2	40.1	58.3	63.9	47.9	66.3	58.3
MILITARY	3.5	2.9	5.9	2.8	1.8	17.5	1.4	0.9	0.6	0.2	0.6
- SALES +.....CIVIL	16.9	21.6	2.4	35.1	30.9	39.3	39.1	24.9	33.2	29.7	34.8
MAINTENANCE...MILITARY	1.5	3.5	6.1	2.3	8.1	3.2	1.3	10.3	18.4	3.9	6.3
- INTRA-EC MILITARY SALES	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL (AS % OF GRAND TOTAL)	21.2	17.2	18.6	17.5	17.0	15.4	14.8	12.6	13.0	14.0	13.2
ENGINES											
- R-D.....CIVIL	3.8	3.1	2.2	1.7	2.3	1.8	1.1	1.5	2.1	2.3	2.3
MILITARY	32.4	34.1	19.5	23.5	23.2	26.3	19.1	21.8	13.5	17.2	16.6
- SALES +.....CIVIL	2.2	3.0	5.4	4.4	3.3	2.1	2.2	1.7	6.9	5.0	4.5
MAINTENANCE...MILITARY	58.0	54.1	63.7	61.7	65.6	63.9	72.9	72.9	73.0	61.3	66.0
- INTRA-EC MILITARY SALES	3.6	5.7	9.2	8.7	5.6	5.9	4.7	2.1	4.5	14.1	10.5
TOTAL (AS % OF GRAND TOTAL)	20.0	16.2	21.0	23.9	24.4	27.0	31.2	27.6	35.5	33.7	34.6
EQUIPMENT											
- R-D.....CIVIL	0.6	0.5	0.5	0.4	0.2	0.3	0.5	0.3	4.1	7.6	5.6
MILITARY	25.6	25.6	29.0	25.4	23.1	23.0	23.2	21.5	21.3	19.0	20.2
- SALES +.....CIVIL	5.0	3.8	4.1	3.4	2.5	3.1	1.7	3.1	6.9	8.1	7.0
MAINTENANCE...MILITARY	61.5	65.5	61.5	65.7	68.3	69.1	72.5	72.2	61.1	61.0	62.7
- INTRA-EC MILITARY SALES	7.2	4.6	4.9	5.1	5.9	4.5	2.1	2.9	6.6	4.2	4.5
TOTAL (AS % OF GRAND TOTAL)	2.5	2.1	3.2	3.3	4.4	5.2	4.9	6.7	3.9	5.2	5.1

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

Level of Intra-European Cooperation Exports to Other EC Aerospace Manufacturers



Source: Industrial Associations

LEVEL OF INTRA-EUROPEAN COOPERATION IN AEROSPACE SECTOR

PROPORTION OF OVERALL TURNOVER OF EACH MEMBER STATE EXPORTED TO
INDUSTRIAL UNDERTAKINGS IN OTHER EC MEMBER STATES (*)

(AS % OF OVERALL TURNOVER)

	BE	DE	ES	FR	IT	NL	UK	EC
1978	33.9	24.8	18.0	7.1	12.9	11.5	15.8	13.7
1979	25.9	20.3	24.7	8.0	9.2	11.0	18.1	14.2
1980	17.1	29.6	26.0	7.6	21.8	12.4	15.0	15.3
1981	17.8	36.0	27.9	8.0	12.5	15.2	21.1	18.3
1982	17.1	38.4	20.4	6.9	11.2	15.9	24.0	19.4
1983	19.8	39.0	28.7	8.8	19.6	12.7	24.8	20.9
1984	27.6	38.6	17.6	7.5	21.2	9.5	22.8	19.7
1985	27.6	33.5	16.6	4.0	25.4	5.4	18.7	16.7
1986	32.3	24.2	15.5	5.3	25.5	4.8	18.7	16.1
1987	33.3	21.9	13.2	6.1	25.6	3.4	14.3	14.6
1988	23.9	23.3	16.1	6.2	25.9	4.2	16.3	15.7

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(*) 1987-88: DG III ESTIMATES

INTRA-INDUSTRIAL TRADE IN AEROSPACE PRODUCTS - EXPORTS (MIO ECUS) - BASE: TURNOVER (*)

BELGIUM

	BE	DE	ES	FR	IT	NL	UK	OTHER EC COUNTRIES	TOTAL EC
1978	-	16.0	0.0	29.7	0.2	2.7	1.0	0.1	49.8
1979	-	12.4	0.0	39.0	0.2	2.1	2.6	0.0	56.4
1980	-	12.7	0.0	38.8	0.4	2.4	2.1	0.2	56.6
1981	-	11.1	0.0	62.1	0.1	3.8	0.7	0.1	77.9
1982	-	7.5	0.0	57.2	0.0	3.9	2.0	0.1	70.7
1983	-	6.6	0.0	57.6	0.0	2.7	1.1	0.1	68.0
1984	-	6.3	0.0	63.2	3.7	4.3	1.4	0.5	79.3
1985	-	4.9	0.0	87.5	1.6	4.3	1.4	0.0	99.8
1986	-	11.7	0.0	84.2	1.7	6.3	2.6	2.5	109.1
1987	-	11.4	0.0	92.0	0.6	6.6	1.6	0.7	112.9
1988	-	9.3	0.0	62.1	0.9	4.0	4.3	0.5	81.0

FRG

	BE	DE	ES	FR	IT	NL	UK	OTHER EC COUNTRIES	TOTAL EC
1978	4.3	-	0.0	405.3	7.6	30.4	43.9	0.0	491.5
1979	5.3	-	0.0	526.0	10.3	22.9	59.2	0.0	623.7
1980	32.6	-	0.0	746.7	26.9	32.2	157.0	0.0	995.5
1981	2.4	-	0.0	1,092.3	63.5	56.2	264.6	1.8	1,480.8
1982	6.2	-	0.0	1,528.5	87.2	70.9	258.4	3.3	1,954.4
1983	7.5	-	0.0	1,603.1	145.4	45.3	283.5	12.2	2,097.1
1984	805.0	-	0.0	816.5	126.8	63.0	359.8	0.9	2,172.1
1985	12.3	-	0.0	1,608.9	108.0	86.8	357.2	11.2	2,184.5
1986	33.2	-	0.0	1,516.3	147.2	98.0	551.2	17.0	2,362.9
1987	45.5	-	13.0	1,604.1	186.6	110.7	636.1	36.2	2,632.3
1988	189.3	-	2.3	1,923.1	170.0	98.6	526.0	15.7	2,925.0

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(*) 1987-88: DG III ESTIMATES

INTRA-INDUSTRIAL TRADE IN AEROSPACE PRODUCTS - EXPORTS (MIO ECUS) - BASE: TURNOVER (*)

SPAIN

	BE	DE	ES	FR	IT	NL	UK	OTHER EC COUNTRIES	TOTAL EC
1978	0.0	0.3	-	18.4	0.0	0.1	0.0	0.0	18.8
1979	0.0	1.7	-	30.7	0.0	0.1	0.0	0.0	32.5
1980	0.1	3.3	-	44.0	0.0	0.4	0.0	0.0	47.8
1981	0.1	4.2	-	69.0	0.0	0.0	0.0	0.0	73.3
1982	0.0	3.1	-	68.9	0.3	0.9	0.0	0.0	73.2
1983	0.0	3.9	-	94.8	0.7	0.3	0.0	0.0	99.7
1984	0.0	3.6	-	54.6	0.3	0.3	0.1	0.0	59.0
1985	0.0	4.1	-	57.4	0.3	0.3	0.1	0.0	62.3
1986	0.0	4.4	-	57.5	0.3	0.2	0.1	0.0	62.7
1987	0.1	4.6	-	50.7	0.4	0.1	0.6	0.0	56.5
1988	0.1	12.2	-	92.1	0.8	0.2	0.7	0.0	106.2

FRANCE

	BE	DE	ES	FR	IT	NL	UK	OTHER EC COUNTRIES	TOTAL EC
1978	20.2	153.0	0.0	-	8.0	22.0	159.1	0.0	362.2
1979	75.3	178.6	0.0	-	37.6	11.8	160.2	0.0	463.5
1980	54.5	237.4	0.0	-	54.4	21.0	170.4	17.0	554.6
1981	24.8	305.8	0.0	-	66.4	17.2	257.0	34.3	705.5
1982	23.3	288.0	0.0	-	40.3	36.5	275.4	16.3	679.8
1983	90.2	257.3	0.0	-	75.8	169.6	337.9	22.7	953.5
1984	30.3	323.9	0.0	-	96.5	128.6	277.8	28.2	885.4
1985	25.8	164.7	0.0	-	99.8	26.3	111.6	35.3	463.4
1986	45.4	221.8	0.0	-	118.5	47.6	130.7	48.4	612.5
1987	50.6	281.8	0.0	-	86.4	91.1	257.9	30.2	797.9
1988	55.0	307.5	0.0	-	95.7	102.8	279.2	33.7	873.9

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(*) 1987-88: DG III ESTIMATES

INTRA-INDUSTRIAL TRADE IN AEROSPACE PRODUCTS - EXPORTS (MIO ECUS) - BASE: TURNOVER (*)

ITALY

	BE	DE	ES	FR	IT	NL	UK	OTHER EC COUNTRIES	TOTAL EC
1978	1.7	57.3	0.0	14.1	-	1.6	30.5	0.0	105.2
1979	0.1	35.4	0.0	16.9	-	4.1	33.1	0.0	89.6
1980	6.9	178.4	0.0	26.0	-	3.8	52.2	0.0	267.4
1981	1.3	110.6	0.0	32.9	-	2.9	69.4	0.0	217.1
1982	2.2	109.7	0.0	38.2	-	2.6	86.1	0.0	238.8
1983	0.4	341.9	0.0	49.8	-	3.0	124.5	0.0	519.5
1984	1.6	342.1	0.0	53.7	-	8.7	180.7	0.5	587.4
1985	0.5	457.9	0.0	88.9	-	5.5	225.1	2.7	780.5
1986	1.4	441.1	0.0	141.7	-	9.2	274.8	4.1	872.4
1987	1.7	473.4	1.6	150.8	-	9.4	296.5	4.3	937.6
1988	2.0	517.2	1.9	166.2	-	10.6	325.7	4.7	1,028.3

NETHERLANDS

	BE	DE	ES	FR	IT	NL	UK	OTHER EC COUNTRIES	TOTAL EC
1978	0.0	2.2	0.0	28.2	0.0	-	2.8	0.0	33.2
1979	0.0	2.1	0.0	31.5	0.0	-	3.5	0.0	37.1
1980	0.0	2.1	0.0	39.5	0.0	-	4.4	0.0	46.0
1981	0.8	2.3	0.0	52.8	0.0	-	10.4	0.0	66.2
1982	2.8	2.7	0.0	66.1	0.0	-	6.5	0.0	78.1
1983	0.8	3.4	0.0	65.7	0.0	-	7.9	0.0	77.8
1984	0.0	0.0	0.0	41.6	0.0	-	14.7	0.0	56.3
1985	0.0	0.0	0.0	18.3	0.0	-	10.4	0.0	28.7
1986	0.0	0.0	0.0	20.8	0.0	-	7.1	0.0	27.9
1987	0.0	0.0	0.0	11.3	0.0	-	3.9	0.0	15.2
1988	0.0	0.0	0.0	27.3	0.0	-	9.3	0.0	36.5

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(*) 1987-88: DG III ESTIMATES

INTRA-INDUSTRIAL TRADE IN AEROSPACE PRODUCTS - EXPORTS (MIO ECUS) - BASE: TURNOVER (*)

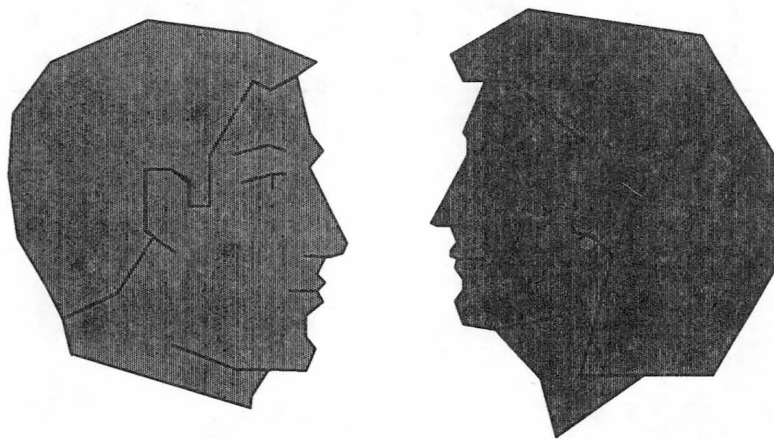
UNITED-KINGDOM

	BE	DE	ES	FR	IT	NL	UK	OTHER EC COUNTRIES	TOTAL EC
1978	1.1	527.3	0.0	101.5	19.3	41.9	-	0.0	691.2
1979	0.8	654.0	0.0	126.9	22.5	37.2	-	0.0	841.4
1980	1.3	805.1	0.0	211.7	43.4	80.2	-	0.0	1,141.7
1981	2.5	1,562.5	0.0	261.5	93.7	94.9	-	0.0	2,015.1
1982	0.8	1,693.8	0.0	353.1	93.2	273.4	-	0.4	2,414.7
1983	1.3	1,715.7	0.0	437.2	70.6	253.7	-	0.0	2,478.6
1984	1.1	1,837.0	0.0	453.2	76.5	188.2	-	0.0	2,555.9
1985	0.8	1,645.2	0.0	350.5	65.2	187.5	-	0.0	2,249.3
1986	1.8	1,627.2	0.0	295.4	89.0	233.8	-	0.0	2,247.2
1987	7.1	1,490.4	0.0	253.4	55.2	60.9	-	0.0	1,866.9
1988	2.0	1,611.8	0.0	355.0	70.9	206.2	-	0.0	2,246.0

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(*) 1987-88: DG III ESTIMATES

AEROSPACE EMPLOYMENT



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EMPLOYMENT

The annual survey conducted in conjunction with the national industrial associations enables the employment in the European aerospace industry to be broken down by professional and activity categories. Participants to this survey are the aerospace companies whose turnover concerns (partly or entirely) one or more of the groups of products listed in the columns of the tables.

Estimates for 1987 and 1988 for the turnover and employment of the aerospace industry are compiled using linear estimates performing a least-squares approximation to indicators such as turnover and employment of the major aerospace companies.

The professional categories are the following:

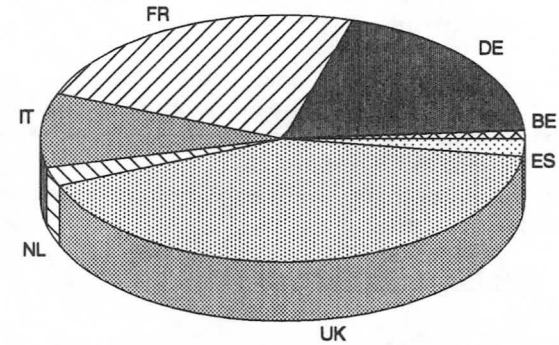
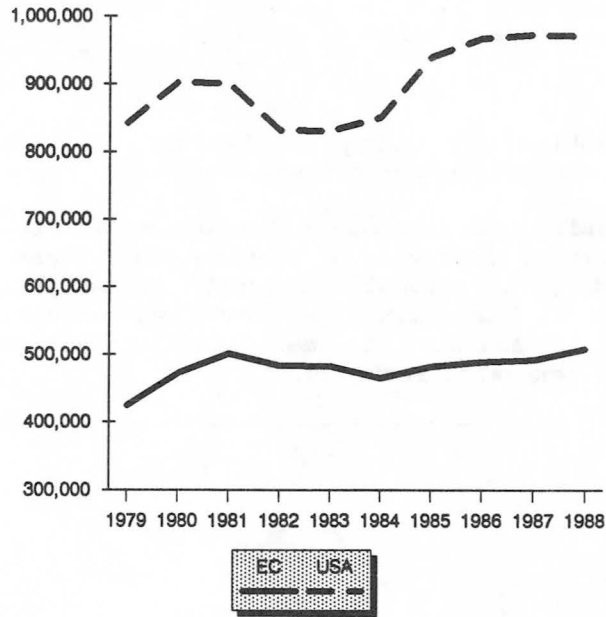
- **engineers and managers,**
- **technical employees** comprise technicians, draughtsmen, craftsmen, supervisors, foremen, etc.
- **administrative employees** comprise clerical and office staff, etc.
- **production workers** (skilled and unskilled)

The professional categories indicated correspond to the actual functions carried out, and do not necessarily correspond to the formal qualifications possessed.

The activities considered concern:

- **R&D,**
 - **production,** including maintenance, repairs and post-delivery modifications,
 - **marketing and management,** including all the activities involved in running the company (overall management, general accounting, financial management, personnel management, etc) in addition to marketing activities and after-sales services.
-

Aerospace Employment



Breakdown by Country
1988 - Estimates

Source: Industrial Associations

AEROSPACE EMPLOYMENT (AT YEAR-END)

	1971	1972	1973	1974	1975	1976	1977	1978	1979
BELGIUM	4,849	4,941	4,380	4,422	4,025	5,015	4,895	5,068	6,272
FRG	56,678	52,455	52,985	51,555	51,914	51,367	52,416	56,348	60,866
FRANCE	108,646	108,525	105,432	106,769	108,915	107,454	103,295	103,424	106,297
ITALY	28,500	30,000	30,000	30,240	30,768	31,991	34,260	36,136	38,370
NETHERLANDS	8,000	6,600	7,000	6,555	7,682	7,865	7,320	7,382	7,935
UNITED KINGDOM (2)	217,800	207,500	201,700	210,100	233,792	227,402	219,261	214,918	196,566
EC 10	424,473	410,021	401,497	409,641	437,096	431,094	421,447	423,276	416,306
SPAIN (3)		-	-	-	-	-	-	-	7,331
EC 12		-	-	-	-	-	-	-	423,637
USA	-	-	-	-	-	-	665,000	720,000	842,000
CANADA	28,000	28,800	31,700	28,400	27,300	25,300	28,900	33,800	37,700
JAPAN	28,000	26,000	26,026	25,550	26,746	25,000	23,756	25,398	25,653

	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
BELGIUM	7,032	6,886	6,705	6,127	5,757	5,470	5,743	5,510	5,175
FRG	66,086	68,650	66,883	65,677	65,366	77,256	85,021	86,573	98,331
FRANCE	110,783	113,690	115,982	127,269	127,815	127,072	126,056	122,317	119,871
ITALY	40,924	41,920	42,907	42,546	42,885	43,284	44,780	47,000	49,500
NETHERLANDS	8,862	9,706	9,527	8,398	9,055	10,053	10,860	11,709	12,690
UNITED KINGDOM (2)	229,821	249,863	230,961	221,547	203,206	206,947	204,335	207,161	209,855
EC 10	463,508	490,715	472,965	471,564	454,084	470,082	476,795	480,270	495,422
SPAIN (3)	8,177	9,516	10,216	10,538	10,740	11,018	11,623	11,304	11,770
EC 12	471,685	500,231	483,181	482,102	464,824	481,100	488,418	491,574	507,192
USA	902,000	900,000	831,000	830,000	850,000	939,000	967,000	972,000	971,000
CANADA	46,800	44,800	40,900	38,500	37,400	40,800	45,100	45,700	49,000
JAPAN	26,373	27,096	27,865	25,486	25,986	25,981	26,241	27,410	-

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

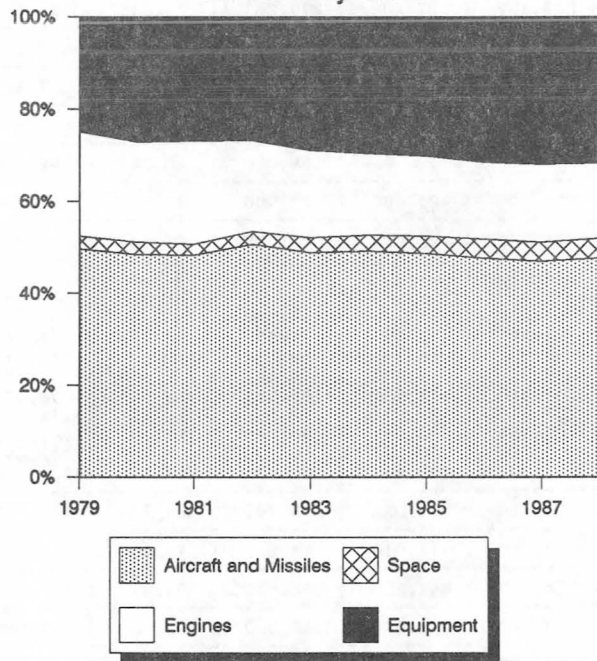
(1) 1987-88: DG III ESTIMATES

(2) 1983-86: DG III ESTIMATES FOR THE SPACE SECTOR

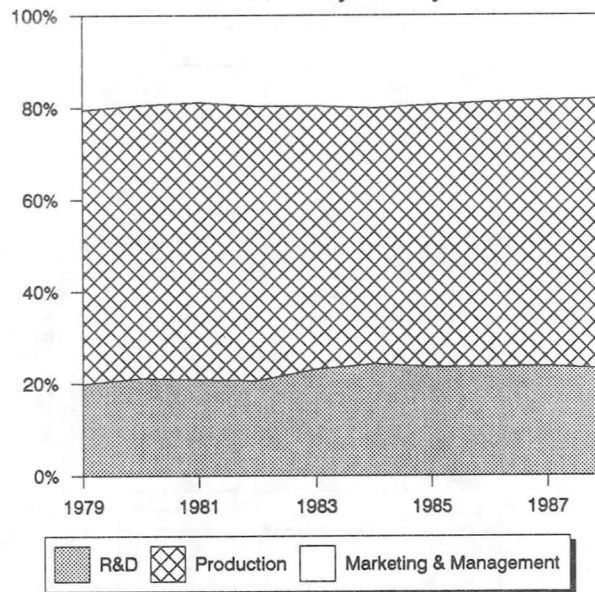
(3) 1984-86: DG III ESTIMATES

EC Aerospace Employment

Breakdown by Sector



Breakdown by Activity



Source: Industrial Associations

AEROSPACE EMPLOYMENT (AT YEAR-END)

SECTOR : AIRFRAMES AND MISSILES

	1979	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
BELGIUM	3,423	3,755	3,461	3,329	2,919	2,757	2,577	2,714	2,680	2,771
FRG	37,935	40,901	42,472	40,501	38,722	39,411	41,694	44,934	40,698	50,939
FRANCE (2)	57,930	59,569	60,649	61,445	60,019	60,525	59,807	58,435	58,446	58,178
ITALY	24,788	26,524	26,930	28,183	28,255	27,850	26,280	27,087	27,965	27,918
NETHERLANDS	5,705	6,375	6,982	6,852	6,039	6,511	7,229	7,809	8,571	9,870
UNITED KINGDOM (3)	73,875	83,907	92,310	94,953	90,015	81,844	86,799	81,463	82,249	82,039
EC 10	203,656	221,031	232,804	235,263	225,969	218,898	224,386	222,442	220,609	231,715
SPAIN (4)	6,413	7,290	8,553	9,233	9,535	9,362	9,562	10,026	9,808	9,601
EC 12	210,069	228,321	241,357	244,496	235,504	228,260	233,948	232,468	230,417	241,316

SECTOR : SPACE

	1979	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
BELGIUM	290	245	299	364	410	380	434	571	555	452
FRG	2,841	2,766	2,681	3,727	4,432	5,067	5,447	5,553	5,896	6,464
FRANCE (2)	3,575	4,042	4,428	4,917	5,307	6,006	6,695	7,175	7,779	7,565
ITALY	482	870	811	914	1,283	1,420	2,280	2,964	3,243	3,614
NETHERLANDS	189	209	229	226	201	217	241	260	244	272
UNITED KINGDOM (3)	4,539	4,417	3,168	3,437	3,656	2,971	2,870	3,346	2,358	3,022
EC 10	11,916	12,549	11,616	13,585	15,289	16,061	17,967	19,869	20,075	21,389
SPAIN (4)	150	146	156	140	156	286	303	335	358	371
EC 12	12,066	12,695	11,772	13,725	15,445	16,347	18,270	20,204	20,433	21,760

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

- (1) 1987-88: DG III ESTIMATES
 (2) 1976-83: DG III ADJUSTMENTS TO ESTIMATE THE SPACE SECTOR
 (3) 1983-86: DG III ESTIMATES FOR THE SPACE SECTOR
 (4) 1984-86: DG III ESTIMATES

AEROSPACE EMPLOYMENT (AT YEAR-END)

SECTOR : ENGINES

	1979	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
BELGIUM	1,807	2,262	2,398	2,357	2,238	2,107	2,053	2,053	1,878	1,618
FRG	8,431	8,701	8,955	8,697	7,717	8,434	8,096	8,790	9,481	9,935
FRANCE (2)	21,146	22,308	23,175	24,055	24,306	24,927	25,461	25,629	24,986	24,881
ITALY	5,783	6,037	6,292	5,984	5,803	5,645	6,475	6,086	6,392	6,830
NETHERLANDS	0	0	0	0	0	0	0	0	0	0
UNITED KINGDOM (3)	58,524	62,986	70,942	53,671	51,264	40,630	40,701	38,591	39,924	38,659
EC 10	95,691	102,294	111,762	94,764	91,328	81,743	82,786	81,149	82,661	81,923
SPAIN (4)	214	226	240	259	261	392	424	482	528	663
EC 12	95,905	102,520	112,002	95,023	91,589	82,135	83,210	81,631	83,189	82,586

SECTOR : EQUIPMENT

	1979	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
BELGIUM	752	770	728	655	560	513	406	405	397	334
FRG	11,659	13,718	14,542	13,958	14,806	12,454	22,019	25,744	30,498	30,992
FRANCE (2)	23,637	24,864	25,438	25,565	37,637	36,357	35,110	34,818	31,106	29,247
ITALY	7,317	7,493	7,887	7,826	7,205	7,970	8,249	8,643	9,400	11,138
NETHERLANDS	2,041	2,278	2,495	2,449	2,158	2,327	2,583	2,791	2,894	2,548
UNITED KINGDOM (3)	59,628	78,511	83,443	78,900	76,612	77,761	76,577	80,935	82,630	86,135
EC 10	105,034	127,634	134,533	129,353	138,978	137,382	144,944	153,336	156,925	160,394
SPAIN (4)	554	515	567	584	586	700	729	780	610	1,135
EC 12	105,588	128,149	135,100	129,937	139,564	138,082	145,673	154,116	157,535	161,529

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

- (1) 1987-88: DG III ESTIMATES
- (2) 1976-83: DG III ADJUSTMENTS TO ESTIMATE THE SPACE SECTOR
- (3) 1983-86: DG III ESTIMATES FOR THE SPACE SECTOR
- (4) 1984-86: DG III ESTIMATES

EC 12 : BREAKDOWN OF WORKFORCE BY OCCUPATIONAL GRADING AND BY MAIN ACTIVITY (AT YEAR-END)

SECTOR : AIRFRAMES AND MISSILES

	1979	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
ENGINEERS AND MANAGERS	29,053	33,700	35,054	36,643	38,823	39,233	40,121	40,432	40,235	42,602
TECHNICAL STAFF	48,947	54,064	56,638	61,159	60,423	59,275	57,988	62,446	61,092	67,513
ADMINISTRATIVE STAFF	35,030	39,369	40,491	37,321	34,893	34,887	36,745	34,948	34,402	37,023
PRODUCTION WORKERS	97,038	101,187	109,173	109,374	101,366	94,625	99,094	94,642	94,688	94,179
R-D	34,168	44,589	45,928	47,336	51,330	51,976	48,469	49,134	51,073	50,293
PRODUCTION	133,197	140,608	148,388	149,369	137,265	129,473	139,020	137,691	136,559	147,344
MARKETING AND MANAGEMENT	42,703	43,123	47,041	47,791	46,909	46,570	46,459	45,643	42,903	43,860
TOTAL	210,069	228,321	241,357	244,496	235,504	228,020	233,948	232,468	230,417	241,316
TOTAL (*)	210,069	228,321	241,357	244,496	235,504	228,260	233,948	232,468	230,417	241,316

SECTOR : SPACE

	1979	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
ENGINEERS AND MANAGERS	2,851	3,602	2,839	3,857	4,231	4,238	4,830	5,205	5,312	5,669
TECHNICAL STAFF	3,937	3,729	3,573	4,054	5,379	5,219	6,376	7,860	8,167	8,342
ADMINISTRATIVE STAFF	1,750	2,048	1,900	2,156	2,206	2,430	3,026	2,335	2,766	2,740
PRODUCTION WORKERS	3,528	3,316	3,459	3,658	3,629	4,462	4,038	4,804	4,188	5,010
R-D	6,271	7,103	6,633	7,743	8,622	7,569	9,718	10,790	10,755	11,045
PRODUCTION	3,928	3,538	3,400	3,873	4,353	6,155	5,168	6,004	5,710	6,357
MARKETING AND MANAGEMENT	1,868	2,054	1,739	2,110	2,471	2,622	3,384	3,408	3,967	4,359
TOTAL	12,066	12,695	11,772	13,725	15,445	16,347	18,270	20,204	20,433	21,760
TOTAL (*)	12,066	12,695	11,772	13,725	15,445	16,347	18,270	20,204	20,433	21,760

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88: DG III ESTIMATES

(*) INCLUDING THE STAFF THE BREAKDOWN OF WHICH IS NOT KNOWN

EC 12 : BREAKDOWN OF WORKFORCE BY OCCUPATIONAL GRADING AND BY MAIN ACTIVITY (AT YEAR-END)

SECTOR : ENGINES

	1979	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
ENGINEERS AND MANAGERS	13,317	14,064	14,113	15,432	15,148	13,932	14,133	13,782	12,872	12,431
TECHNICAL STAFF	19,812	19,073	22,743	19,134	21,271	19,252	18,709	18,727	25,542	26,939
ADMINISTRATIVE STAFF	12,321	13,762	15,769	11,329	10,934	9,748	11,110	9,739	9,903	10,161
PRODUCTION WORKERS	50,455	55,621	58,978	49,129	44,237	39,203	39,257	39,383	34,872	33,053
R-D	18,466	15,638	17,503	16,019	17,049	15,858	16,421	15,406	16,486	15,918
PRODUCTION	56,160	67,161	73,026	58,343	54,429	48,812	49,044	49,776	51,141	50,863
MARKETING AND MANAGEMENT	21,289	19,721	21,073	20,660	20,110	17,465	17,746	16,450	14,716	14,512
TOTAL	95,905	102,520	111,602	95,023	91,589	82,135	83,210	81,631	83,189	82,586
TOTAL (*)	95,905	102,520	112,002	95,023	91,589	82,135	83,210	81,631	83,189	82,586

SECTOR : EQUIPMENT

	1979	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
ENGINEERS AND MANAGERS	17,666	24,496	24,746	23,386	26,767	27,926	30,671	35,813	35,041	39,570
TECHNICAL STAFF	21,877	26,582	28,433	27,830	33,399	32,423	35,227	34,747	34,126	34,187
ADMINISTRATIVE STAFF	16,163	20,167	20,982	20,445	22,296	23,246	23,724	23,620	28,103	29,035
PRODUCTION WORKERS	48,082	55,104	60,339	57,426	56,451	53,587	56,050	59,936	60,265	58,737
R-D	24,888	32,171	33,661	28,149	34,367	36,641	38,573	39,583	37,951	39,625
PRODUCTION	58,297	67,854	76,118	76,381	79,114	73,655	80,967	87,748	91,299	93,495
MARKETING AND MANAGEMENT	20,602	26,325	24,721	24,556	25,433	26,886	26,132	26,785	29,013	29,520
TOTAL	103,788	126,349	134,500	129,087	138,914	137,182	145,673	154,116	157,535	161,529
TOTAL (*)	105,588	128,149	135,100	129,937	139,564	138,082	145,673	154,116	157,535	161,529

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88: DG III ESTIMATES

(*) INCLUDING THE STAFF THE BREAKDOWN OF WHICH IS NOT KNOWN

EC 12 : BREAKDOWN OF WORKFORCE BY OCCUPATIONAL GRADING AND BY MAIN ACTIVITY (AT YEAR-END)

TOTAL

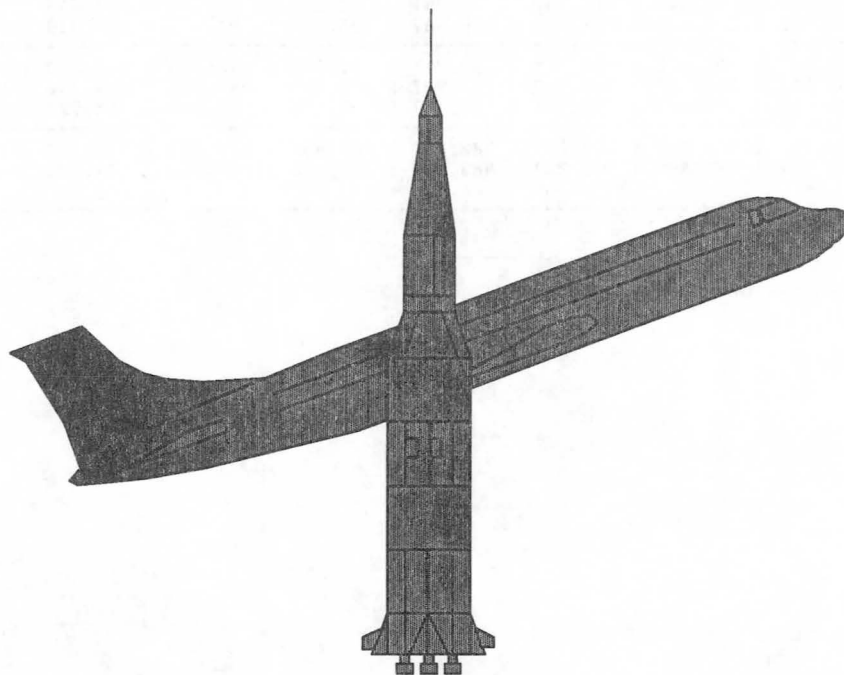
	1979	1980	1981	1982	1983	1984	1985	1986	1987 (1)	1988 (1)
ENGINEERS AND MANAGERS	62,887	75,862	76,753	79,317	84,969	85,329	89,756	95,232	93,460	100,272
TECHNICAL STAFF	94,573	103,448	111,387	112,176	120,471	116,169	118,300	123,780	128,927	136,982
ADMINISTRATIVE STAFF	65,265	75,346	79,142	71,251	70,329	70,311	74,605	70,642	75,174	78,959
PRODUCTION WORKERS	199,102	215,229	231,949	219,587	205,683	191,877	198,439	198,764	194,013	190,979
R-D	83,793	99,501	103,725	99,247	111,368	112,044	113,180	114,913	116,266	116,880
PRODUCTION	251,582	279,161	300,932	287,967	275,162	258,095	274,198	281,218	284,709	298,060
MARKETING AND MANAGEMENT	86,462	91,223	94,574	95,117	94,922	93,543	93,721	92,286	90,599	92,252
TOTAL	421,827	469,885	499,231	482,331	481,452	463,684	481,100	488,418	491,574	507,192
TOTAL (*)	423,637	471,685	500,231	483,181	482,102	464,824	481,100	488,418	491,574	507,192

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

(1) 1987-88: DG III ESTIMATES

(*) INCLUDING THE STAFF THE BREAKDOWN OF WHICH IS NOT KNOWN

AEROSPACE MANUFACTURERS



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A E R O S P A C E M A N U F A C T U R E R S

Data for the turnover and employment of the major world aerospace manufacturers are taken from information supplied by the companies themselves or published in their annual reports.

Except when otherwise stated, the data relating to groups cover only their aerospace operations.

The turnover/employment ratio is certainly not the best way of measuring productivity, since it overestimates the position of manufacturers which undertake little R&D activity and/or carry out more work under license or under sub-contracts.

TURNOVER OF THE MAJOR AEROSPACE MANUFACTURERS (MIO ECU AT CURRENT VALUES)

	1982	1983	1984	1985	1986	1987	1988	1989	1990
(US) BOEING (GROUP)	9,222	12,501	13,122	17,869	16,604	13,400	14,429	20,353	-
(US) MC DONNELL DOUGLAS	7,073	8,633	11,319	13,777	11,768	10,514	11,326	-	-
(US) LOCKHEED (GROUP)	5,729	7,290	10,282	12,495	10,466	9,794	9,008	-	-
(US) U.T.C. - POWER SYSTEMS	5,288	5,146	5,358	5,257	5,507	5,740	6,347	-	-
(UK) BAE	3,663	3,919	4,178	4,495	4,671	5,768	6,117	-	-
(US) GE - FLIGHT SYSTEMS	3,205	3,926	4,860	6,175	6,073	5,911	5,513	-	-
(US) GE - POWER SYSTEMS	2,955	-	-	5,862	5,080	4,952	5,020	-	-
(US) NORTHROP (GROUP)	2,524	3,663	4,674	6,627	5,698	5,282	4,931	-	-
(US) GENERAL DYNAMICS	-	-	-	4,043	4,387	4,592	4,545	-	-
(FR) AEROSPATIALE	3,331	3,548	3,658	3,620	3,737	3,538	3,979	4,484	5,284
(US) MARTIN MARIETTA	2,356	2,893	4,148	4,570	3,777	3,547	3,847	4,394	4,418
(DE) M.B.B.	2,390	2,588	2,555	2,700	2,647	2,943	3,429	3,802	4,337
(US) ROCKWELL	2,857	4,319	5,490	6,957	5,634	4,427	3,378	-	-
(US) U.T.C. - FLIGHT SYSTEMS	2,038	2,608	3,427	3,737	2,926	2,833	2,982	-	-
(UK) ROLLS-ROYCE (GROUP)	2,664	2,267	2,386	2,718	2,683	2,914	2,960	-	-
(FR) DASSAULT-BREGUET	1,967	2,070	2,284	2,419	2,294	2,246	2,511	3,274	2,571
(US) GRUMMAN	2,099	2,533	3,300	3,505	2,881	2,176	2,248	-	-
(JA) MITSUBISHI H.I.	599	773	1,117	1,405	1,255	1,157	2,061	-	-
(FR) SNECMA	924	977	1,192	1,384	1,508	1,352	1,459	1,907	1,999
(IT) AERITALIA	613	642	843	836	960	1,064	1,079	1,598	-
(JA) KAWASAKI H.I.	412	482	651	731	800	749	1,076	-	-
(FR) E.S.D.	205	229	262	277	329	387	-	-	-
(IT) AERMACCHI	138	160	138	163	159	189	-	-	-
(UK) BOMBARDIER - SHORTS	-	345	276	341	298	318	-	-	-
(FR) MATRA	780	777	802	840	830	930	966	-	-
(IS) I.A.I.	733	875	1,142	1,322	1,099	758	903	-	-
(US) HERCULES	-	-	948	1,106	921	879	895	-	-
(NL) FOKKER B.V.	516	605	619	533	584	452	879	-	-
(US) SUNDSTRAND	634	640	824	1,057	982	869	869	-	-
(US) ROHR (GROUP)	577	638	768	778	636	579	771	-	-
(DE) DORNIER	511	378	428	607	542	474	755	-	-
(US) LTV	531	546	690	1,302	1,112	896	738	-	-
(JA) I.H.I.	331	438	554	590	640	590	712	-	-
(DE) M.T.U.	414	440	497	537	530	619	707	-	-
(IT) AGUSTA	435	606	493	570	580	615	668	799	873
(SW) SAAB AEROSPACE	190	213	295	499	468	612	567	-	-
(ES) CASA	308	302	323	361	337	356	561	655	854
(UK) WESTLAND (GROUP)	506	555	502	524	513	540	530	-	-
(FR) S.E.P.	187	206	263	333	384	494	518	598	586
(CA) BOMBARDIER - CANADAIR	355	353	368	420	421	411	511	-	-
(IT) SELENIA	295	355	432	482	485	437	478	586	652
(US) FAIRCHILD (GROUP)	470	510	649	533	456	396	458	-	-
(IT) FIAT AVIAZIONE	226	253	261	310	415	471	457	594	658
(US) CESSNA (GENERAL DYNAMICS)	849	589	878	924	548	409	370	601	744
(SW) VOLVO	172	162	206	246	266	301	347	-	-
(FR) TURBOMECA	296	292	292	300	300	312	325	344	357
(DE) AEG	166	190	215	216	244	275	291	-	-
(JA) FUJI H.I.	105	112	194	212	234	232	250	-	-
(US) GULSTREAM (CHRYSLER)	296	289	425	392	301	288	250	278	233
(US) LEARJET (GROUP)	560	394	515	415	-	172	186	-	-
(BE) F.N. MOTEURS	210	184	140	215	171	149	147	151	181
(BE) SABCA	100	70	56	71	70	82	92	99	81
(BE) SONACA	54	49	56	59	50	58	67	74	101

WORKFORCE OF THE MAJOR AEROSPACE MANUFACTURERS

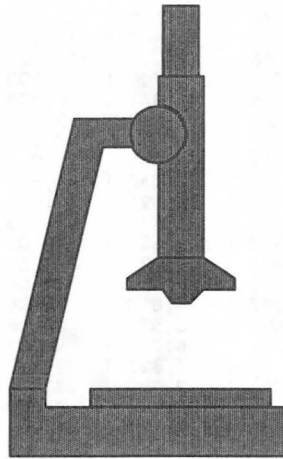
	1982	1983	1984	1985	1986	1987	1988	FORECAST 1989	FORECAST 1990
(US) BOEING (GROUP)	95,700	84,600	86,600	98,700	118,500	125,980	126,000	-	-
(US) MC DONNELL DOUGLAS	60,970	62,820	72,690	83,310	92,289	99,300	109,400	-	-
(US) LOCKHEED (GROUP)	70,200	71,800	81,300	87,800	96,900	97,300	86,000	-	-
(UK) BAE	78,990	77,986	75,998	75,645	75,480	86,800	84,900	-	-
(US) U.T.C. - POWER SYSTEMS	43,938	40,715	42,129	43,891	46,728	46,536	46,000	-	-
(UK) ROLLS-ROYCE (GROUP)	48,800	42,300	40,900	41,700	41,900	42,000	40,900	-	-
(DE) M.B.B.	38,494	36,790	35,485	36,915	37,642	38,456	39,886	41,000	41,900
(FR) AEROSPATIALE	36,450	35,463	35,456	34,889	34,246	32,827	32,626	32,700	32,800
(US) ROCKWELL	29,000	42,300	43,300	45,700	41,100	34,408	32,574	-	-
(US) GRUMMAN	27,300	28,800	30,500	32,000	35,000	32,000	32,000	-	-
(IS) I.A.I.	19,630	20,670	21,650	22,070	21,674	20,756	16,500	-	-
(IT) AERITALIA	12,293	12,286	12,321	12,558	12,906	13,662	14,177	-	-
(FR) DASSAULT-BREGUET	15,782	15,799	16,196	16,123	15,783	14,676	13,818	13,000	13,000
(FR) SNECMA	12,595	12,950	13,442	13,862	13,918	13,434	13,482	13,971	14,300
(NL) FOKKER B.V.	9,606	8,398	9,055	10,053	10,860	11,709	11,610	-	-
(US) ROHR (GROUP)	8,000	7,700	6,900	7,600	8,000	10,000	11,000	12,000	-
(ES) CASA	9,622	9,836	10,037	10,238	10,591	10,548	10,370	10,600	10,570
(IT) AGUSTA	-	10,421	10,064	9,793	9,703	9,711	9,888	9,900	9,900
(US) SUNDSTRAND	7,526	7,527	8,549	9,919	10,118	10,052	9,796	-	-
(DE) DORNIER	6,881	6,729	6,806	6,904	7,520	7,391	9,178	-	-
(DE) M.T.U.	6,195	6,169	6,260	6,613	7,016	7,437	7,787	-	-
(IT) SELENIA	6,534	6,493	6,595	7,074	7,001	6,850	6,716	6,650	6,550
(SW) SAAB AEROSPACE	6,178	6,165	6,115	6,443	6,500	6,000	6,489	-	-
(CA) BOMBARDIER - CANADAIR	6,500	4,422	4,606	4,707	5,386	5,484	5,515	-	-
(US) CESSNA (GENERAL DYNAMICS)	11,542	8,437	9,297	8,269	5,301	5,500	5,500	6,000	7,500
(IT) FIAT AVIAZIONE	3,565	3,485	3,466	3,604	4,528	4,656	4,755	4,819	4,710
(FR) MATRA	3,712	4,357	4,810	4,846	4,933	5,017	4,747	-	-
(FR) S.E.P.	3,200	3,408	3,571	3,708	3,886	3,969	4,144	4,115	4,075
(FR) TURBOMECA	4,330	4,262	4,247	4,291	4,331	4,320	3,980	3,878	3,850
(SW) VOLVO	3,146	3,125	3,326	3,463	3,587	3,729	3,760	-	-
(US) GULFSTREAM (CHRYSLER)	2,239	2,714	2,949	3,234	3,411	3,725	3,702	3,644	3,500
(JA) I.H.I.	3,550	3,500	3,500	3,500	3,200	3,500	3,550	-	-
(JA) FUJI H.I.	1,974	2,131	2,178	2,130	2,179	2,344	2,497	-	-
(DE) AEG	1,663	1,902	2,149	2,050	2,080	2,232	2,300	-	-
(BE) F.N. MOTEURS	2,579	2,368	2,302	2,308	2,214	1,999	1,648	1,550	1,520
(BE) SABCA	1,968	1,752	1,669	1,458	1,598	1,621	1,614	1,640	1,580
(BE) SONACA	1,604	1,417	1,309	1,337	1,380	1,380	1,380	1,425	1,440
(FR) E.S.D.	2,490	2,525	2,725	2,799	2,915	3,023	-	-	-
(IT) AERMACCHI	2,542	2,506	2,454	2,435	2,474	2,550	-	-	-
(JA) KAWASAKI H.I.	3,700	3,700	3,700	3,700	3,900	4,000	-	-	-
(JA) MITSUBISHI H.I.	6,500	6,300	6,100	6,200	6,300	-	-	-	-
(UK) BOMBARDIER - SHORTS	-	6,265	6,164	6,587	7,216	7,203	-	-	-
(UK) WESTLAND (GROUP)	12,195	12,305	11,892	11,613	10,595	9,231	-	-	-
(US) MARTIN MARIETTA	27,962	29,329	33,084	-	-	-	-	-	-
(US) NORTHROP (GROUP)	35,500	37,200	41,500	46,900	46,000	46,000	-	-	-

EC - DG III / SOURCE: COMPANIES

PUBLIC FINANCING OF R&D

CHAPTER

9



PUBLIC FINANCING OF R & D

Data relating to public financing of aerospace R&D are supplied by the EUROSTAT (Statistical Office of the European Communities) and include funds for aerospace R&D granted to industry and to research centers, laboratories, universities, etc.

The data relating to space R&D comprise since 1980 credits allocated to the European Space Agency (ESA). This must be taken into account when analyzing time series.

Although a comparison of statistics from different sources can sometimes produce misleading results, it should be pointed out that the difference between the figures given in the following tables and those given in the Chapter 6 on the turnover of the aerospace industry is indicative of the proportion of public funds granted to non-industrial bodies.

PUBLIC FINANCING OF AEROSPACE R-D (MIO ECUS)

AIRCRAFT SECTOR

	BE	DK	DE	ES	FR	HE	IR	IT	NL	PO	UK	EC 12
1980	8	-	109	0	120	0	0	9	0	0	116	362
1981	4	-	168	0	112	0	0	6	0	0	219	508
1982	4	-	172	0	-	0	0	29	0	0	154	-
1983	4	-	166	0	-	0	0	15	0	0	189	-
1984	-	-	184	-	-	0	0	39	0	0	194	-
1985	-	-	343	-	-	0	0	40	0	0	203	-
1986	-	-	288	-	-	73	0	48	0	0	197	-
1987	-	-	356	-	-	8	0	41	0	0	145	-
1988	-	-	346	-	-	83	0	78	0	0	154	-

SPACE SECTOR

	BE	DK	DE	ES	FR	HE	IR	IT	NL	PO	UK	EC 12
1980	31	8	290	0	328	0	1	81	36	0	87	862
1981	28	8	292	0	278	0	1	121	40	0	123	890
1982	28	9	340	0	318	0	1	92	42	0	131	961
1983	30	11	338	0	395	0	1	123	41	0	127	1,066
1984	37	12	341	0	509	1	1	216	39	0	134	1,288
1985	43	14	369	30	560	1	2	260	42	0	143	1,463
1986	50	14	453	17	713	0	2	288	53	0	173	1,765
1987	66	15	532	57	726	0	3	439	50	0	184	2,073
1988	71	17	592	75	772	0	3	516	61	0	224	2,331

AEROSPACE TOTAL

	BE	DK	DE	ES	FR	HE	IR	IT	NL	PO	UK	EC 12
1980	38	-	399	0	448	0	1	90	36	0	203	1,224
1981	32	-	459	0	389	0	1	127	40	0	341	1,398
1982	32	-	511	0	-	0	1	121	42	0	284	-
1983	34	-	504	0	-	0	1	137	41	0	317	-
1984	-	-	524	-	-	1	1	255	39	0	328	-
1985	-	-	712	-	-	1	2	299	42	0	346	-
1986	-	-	741	-	-	73	2	336	53	0	371	-
1987	-	-	887	-	-	9	3	481	50	0	330	-
1988	-	-	937	-	-	83	3	594	61	0	378	-

EC - DG III / SOURCE: EUROSTAT

PUBLIC FINANCING OF AEROSPACE R-D (AS % OF TOTAL PUBLIC FINANCING OF R-D)

AIRCRAFT SECTOR

	BE	DK	DE	ES	FR	HE	IR	IT	NL	PO	UK	EC 12
1980	1.5	-	1.6	0.0	2.3	0.0	0.0	0.7	0.0	0.0	2.8	2.0
1981	0.9	-	2.4	0.0	1.7	0.0	0.0	0.3	0.0	0.0	3.6	2.3
1982	0.8	-	2.1	0.0	-	0.0	0.0	1.3	0.0	0.0	2.3	-
1983	0.7	-	2.0	0.0	-	0.0	0.0	0.5	0.0	0.0	2.8	-
1984	-	-	2.1	-	-	0.0	0.0	1.2	0.0	0.0	2.7	-
1985	-	-	3.6	-	-	0.0	0.0	1.1	0.0	0.0	2.6	-
1986	-	-	2.9	-	-	73.3	0.0	1.1	0.0	0.0	2.9	-
1987	-	-	3.3	-	-	8.1	0.0	0.8	0.0	0.0	2.1	-
1988	-	-	3.2	-	-	73.4	0.0	1.4	0.0	0.0	2.1	-

SPACE SECTOR

	BE	DK	DE	ES	FR	HE	IR	IT	NL	PO	UK	EC 12
1980	6.3	3.6	4.3	0.0	6.2	0.4	0.9	6.2	2.9	0.0	2.1	4.8
1981	5.5	3.2	4.1	0.0	4.1	0.4	1.7	5.8	3.1	0.0	2.0	4.0
1982	5.4	3.4	4.2	0.0	4.3	0.3	1.5	4.1	3.0	0.0	2.0	3.9
1983	5.4	3.4	4.0	0.0	4.8	0.0	1.3	4.4	2.8	0.0	1.9	4.0
1984	6.2	3.3	3.9	0.0	5.6	0.5	1.6	6.4	2.6	0.0	1.8	4.4
1985	6.6	3.2	3.9	3.7	5.6	0.6	1.6	7.1	2.7	0.0	1.8	4.6
1986	7.7	2.7	4.5	2.1	7.0	0.3	1.9	6.5	3.1	0.0	2.6	5.5
1987	9.9	2.6	5.0	5.7	6.8	0.3	2.7	8.8	2.8	0.0	2.7	6.1
1988	10.6	2.3	5.5	6.5	6.9	0.3	3.0	9.0	3.3	0.1	3.1	6.6

AEROSPACE TOTAL

	BE	DK	DE	ES	FR	HE	IR	IT	NL	PO	UK	EC 12
1980	7.8	-	5.9	0.0	8.5	0.4	0.9	6.9	2.9	0.0	4.9	6.8
1981	6.4	-	6.5	0.0	5.8	0.4	1.7	6.1	3.1	0.0	5.7	6.2
1982	6.2	-	6.3	0.0	-	0.3	1.5	5.3	3.0	0.0	4.3	-
1983	6.1	-	6.0	0.0	-	0.0	1.3	4.9	2.8	0.0	4.6	-
1984	-	-	6.0	-	-	0.5	1.6	7.6	2.6	0.0	4.5	-
1985	-	-	7.5	-	-	0.6	1.6	8.2	2.7	0.0	4.4	-
1986	-	-	7.4	-	-	73.6	1.9	7.6	3.1	0.0	5.5	-
1987	-	-	8.3	-	-	8.5	2.7	9.7	2.8	0.0	4.8	-
1988	-	-	8.7	-	-	73.7	3.0	10.4	3.3	0.1	5.2	-

EC - DG III / SOURCE: EUROSTAT

ANNEXES

EXCHANGE RATES

1 ECU =

	BFR	DM	PTA	FF	LIT	HFL	UKL	US \$	CA \$	YEN	SEK
1970	51.112	3.741	71.36	5.678	638.9	3.700	0.4259	1.022	1.067	368.0	5.301
1971	50.866	3.646	72.57	5.772	647.4	3.658	0.4286	1.048	1.058	363.8	5.351
1972	49.361	3.577	72.00	5.657	654.3	3.600	0.4489	1.122	1.110	339.7	5.342
1973	47.801	3.276	71.81	5.468	716.5	3.429	0.5023	1.232	1.232	333.2	5.373
1974	46.399	3.084	68.82	5.734	775.7	3.202	0.5098	1.193	1.166	347.5	5.291
1975	45.569	3.049	71.16	5.319	809.5	3.135	0.5600	1.241	1.262	367.7	5.145
1976	43.165	2.815	74.74	5.345	930.1	2.955	0.6216	1.118	1.102	331.2	4.869
1977	40.883	2.648	86.85	5.606	1,006.8	2.800	0.6537	1.141	1.213	305.8	5.107
1978	40.061	2.556	97.43	5.740	1,080.2	2.754	0.6639	1.274	1.453	267.1	5.755
1979	40.165	2.511	91.97	5.829	1,138.5	2.749	0.6464	1.371	1.605	300.5	5.875
1980	40.598	2.524	99.70	5.869	1,189.2	2.760	0.5985	1.392	1.627	315.0	5.888
1981	41.295	2.514	102.68	6.040	1,263.2	2.775	0.5531	1.116	1.338	245.4	5.635
1982	44.712	2.376	107.56	6.431	1,323.8	2.614	0.5605	0.980	1.208	243.5	6.125
1983	45.438	2.271	127.50	6.771	1,349.9	2.537	0.5870	0.890	1.097	211.4	6.823
1984	45.442	2.238	126.57	6.872	1,381.4	2.523	0.5906	0.789	1.021	187.1	6.521
1985	44.914	2.226	129.16	6.795	1,448.0	2.511	0.5890	0.763	1.042	180.6	6.550
1986	43.798	2.128	137.46	6.800	1,461.9	2.401	0.6715	0.984	1.368	165.0	7.005
1987	43.058	2.072	142.12	6.921	1,490.7	2.336	0.7065	1.146	1.519	166.8	7.261
1988	43.475	2.076	137.55	7.033	1,534.5	2.337	0.6665	1.176	1.447	151.8	7.199
1989	43.491	2.078	130.06	7.025	1,502.1	2.343	0.6655	1.081	1.281	149.6	7.009
1990	43.407	2.075	129.79	7.002	1,488.6	2.340	0.6770	1.075	1.264	151.1	6.996

EC - DG III / SOURCE: COMMISSION SERVICES

GROSS DOMESTIC PRODUCT AT MARKET PRICES

(MIO ECU AT CURRENT PRICES)

	BE	DE	ES	FR	IT	NL	UK	EC 12	USA	CDN	JAPAN
1970	24.7	180.5	36.8	139.8	113.4	32.7	120.7	665.9	987.3	82.9	199.3
1971	27.2	205.9	40.8	153.2	122.0	37.3	134.8	740.5	1,045.5	91.3	221.8
1972	31.3	230.3	48.3	174.6	132.3	42.9	142.5	825.4	1,073.0	97.1	272.0
1973	36.7	280.0	58.4	206.6	144.4	51.3	146.8	954.5	1,091.9	102.6	337.7
1974	44.3	319.3	74.6	227.2	164.5	62.4	164.8	1,100.5	1,221.1	129.4	386.3
1975	49.8	336.8	84.6	276.0	178.5	70.2	189.5	1,253.2	1,276.6	134.8	403.4
1976	59.7	398.4	97.0	318.2	194.1	85.3	203.5	1,468.6	1,578.5	178.1	502.9
1977	68.1	452.3	105.9	342.1	217.6	98.2	222.8	1,685.2	1,724.2	178.1	607.0
1978	74.6	502.8	115.5	380.3	237.1	107.8	253.2	1,917.5	1,741.6	164.9	765.3
1979	79.4	554.5	143.1	425.6	273.5	115.0	304.4	2,196.6	1,798.3	170.7	737.3
1980	85.0	585.9	152.5	478.5	328.3	122.0	385.5	2,516.1	1,930.9	189.1	762.4
1981	86.5	613.0	165.5	524.0	370.5	127.1	459.6	2,796.0	2,695.6	264.1	1,048.8
1982	86.9	672.5	181.9	563.8	411.8	141.1	493.9	3,110.3	3,186.0	307.8	1,107.1
1983	90.7	737.6	174.4	591.7	469.3	150.2	515.0	3,428.9	3,767.0	366.7	1,326.0
1984	97.4	784.5	198.4	634.8	526.9	158.6	545.8	3,748.5	4,717.6	432.1	1,592.5
1985	105.2	822.2	215.9	690.9	563.3	166.5	598.6	4,074.1	5,199.2	456.0	1,751.8
1986	113.8	907.4	232.4	740.5	617.2	179.1	560.7	4,410.4	4,258.9	367.2	2,000.7
1987	120.4	969.5	251.3	764.1	659.2	184.9	580.1	4,715.9	3,903.5	358.6	2,060.6
1988	125.8	1,017.6	288.0	802.6	705.2	193.3	682.8	5,111.2	4,104.2	410.0	2,404.4
1989	135.1	1,080.4	342.0	857.0	792.8	203.1	745.5	5,544.3	4,790.8	501.0	2,597.6
1990	144.9	1,149.9	379.7	911.0	878.6	214.2	787.6	5,980.0	5,137.6	542.3	2,752.5

EC - DG III / SOURCE: COMMISSION SERVICES

GROSS DOMESTIC PRODUCT AT MARKET PRICES

(MIO ECU AT 1985 PRICES AND EXCHANGE RATES)

	BE	DE	ES	FR	IT	NL	UK	EC 12	USA	CDN	JAPAN
1970	74.0	594.6	143.5	464.0	380.6	118.9	449.6	2,843.2	3,445.9	253.3	918.4
1971	76.7	611.7	150.1	486.1	387.0	124.0	461.2	2,936.1	3,557.6	267.9	957.9
1972	80.7	637.6	162.1	507.7	399.5	128.1	471.8	3,058.4	3,737.8	283.2	1,038.2
1973	85.5	667.4	174.6	535.3	427.5	134.1	510.0	3,252.1	3,916.7	305.0	1,120.0
1974	89.0	669.3	183.8	552.0	445.1	139.4	505.0	3,313.9	3,888.7	318.3	1,106.2
1975	87.7	658.7	184.9	550.4	428.9	139.2	501.6	3,276.3	3,848.8	326.6	1,135.0
1976	92.5	694.3	190.9	573.7	454.1	146.4	519.9	3,432.2	4,036.2	346.7	1,189.3
1977	93.0	714.8	196.7	592.2	462.7	149.8	525.4	3,514.5	4,215.7	359.1	1,252.2
1978	95.5	735.3	199.5	612.1	475.2	153.5	544.8	3,619.9	4,431.3	375.5	1,316.2
1979	97.6	765.8	199.2	631.8	498.4	157.1	557.1	3,736.3	4,518.8	390.2	1,384.4
1980	101.8	776.2	201.7	642.2	517.9	158.4	546.1	3,787.0	4,515.7	395.9	1,445.9
1981	100.2	777.5	201.2	649.7	523.9	157.3	540.0	3,793.8	4,617.5	410.5	1,501.8
1982	101.7	772.5	203.6	666.2	525.1	155.1	546.6	3,824.7	4,499.0	397.4	1,544.4
1983	101.9	784.1	207.3	670.9	530.6	157.3	567.6	3,886.8	4,675.1	410.0	1,593.1
1984	104.3	806.2	211.0	679.6	547.5	162.3	577.9	3,975.5	5,010.3	436.1	1,672.9
1985	105.2	822.2	215.9	690.9	563.3	166.5	598.6	4,074.1	5,199.2	456.0	1,751.8
1986	107.3	841.4	223.0	705.4	579.5	170.0	617.1	4,180.1	5,354.6	470.3	1,793.9
1987	109.5	857.8	235.4	720.7	597.5	172.3	640.4	4,296.5	5,545.0	489.1	1,871.0
1988	113.8	889.4	247.0	745.3	621.0	177.2	667.1	4,459.2	5,790.1	511.1	1,979.0
1989	118.6	922.9	258.5	769.8	642.7	184.0	681.4	4,610.3	5,956.4	527.7	2,073.6
1990	122.6	955.0	268.7	794.2	662.2	189.4	695.6	4,752.1	6,081.5	539.6	2,160.5

EC - DG III / SOURCE: COMMISSION SERVICES

GDP DEFLATOR AT MARKET PRICES (1985 = 100 - IN NATIONAL CURRENCY)

	BE	DE	ES	FR	IT	NL	UK	EC 12	USA	CDN	JAPAN
1970	38.0	51.0	14.2	25.2	13.2	40.6	19.4	23.4	38.4	33.5	44.2
1971	40.1	55.1	15.3	26.8	14.1	43.9	21.3	25.2	40.3	34.6	46.7
1972	42.6	58.0	16.6	28.6	15.0	48.0	23.0	27.0	42.2	36.5	49.3
1973	45.7	61.7	18.6	31.1	16.7	52.3	24.5	29.3	45.0	39.8	55.6
1974	51.5	66.1	21.6	34.7	19.8	57.1	28.3	33.2	49.1	45.5	67.2
1975	57.7	70.0	25.2	39.2	23.3	62.9	35.9	38.2	53.9	50.0	72.4
1976	62.0	72.6	29.4	43.6	27.5	68.5	41.3	42.8	57.3	54.3	77.6
1977	66.7	75.3	36.2	47.7	32.7	73.1	47.1	47.9	61.2	57.8	82.1
1978	69.6	78.5	43.7	52.5	37.2	77.1	52.4	53.0	65.6	61.2	86.0
1979	72.8	81.7	51.1	57.8	43.1	80.1	60.0	58.8	71.5	67.4	88.6
1980	75.5	85.6	58.4	64.4	52.1	84.6	71.7	66.4	78.0	74.6	92.0
1981	79.3	89.0	65.4	71.7	61.7	89.3	79.9	73.7	85.4	82.6	94.9
1982	85.1	92.9	74.4	80.1	71.7	94.7	86.0	81.3	90.9	89.8	96.7
1983	90.0	95.9	83.0	87.9	82.5	96.5	90.4	88.2	94.0	94.2	97.4
1984	94.5	97.8	92.1	94.4	91.8	98.2	94.7	94.3	97.4	97.1	98.6
1985	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1986	103.4	103.1	110.9	105.0	107.5	100.7	103.6	105.5	102.6	102.5	101.9
1987	105.4	105.2	117.5	108.0	113.6	99.8	108.7	109.8	105.7	106.9	101.7
1988	107.0	106.7	124.2	111.4	120.3	101.6	115.8	114.6	109.2	111.4	102.2
1989	110.3	109.3	133.2	115.1	128.0	103.0	123.6	120.3	113.9	116.7	103.8
1990	114.3	112.2	142.0	118.2	136.4	105.4	130.2	125.8	119.0	122.0	106.6

EC - DG III / SOURCE: COMMISSION SERVICES

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER (MIO ECUS) BY CUSTOMERS : AIRFRAME AND MISSILES SECTOR

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
STATE	2,479	3,556	3,699	3,697	3,815	4,248	4,486	5,554	5,793	6,311	6,643
- R-D CONTRACTS	769	1,169	1,093	1,133	1,137	1,312	1,579	1,633	1,937	2,011	2,206
- CIVIL	69	70	101	103	103	123	53	47	266	417	397
- MILITARY	701	1,099	992	1,030	1,034	1,189	1,527	1,586	1,671	1,594	1,809
- MODIFICATIONS, REPAIRS, MAINTENANCE	344	487	554	600	657	626	815	833	962	1,102	1,184
- CIVIL	21	15	28	31	39	45	32	29	16	32	29
- MILITARY	322	473	526	569	618	581	783	804	945	1,070	1,155
- SALES	1,366	1,900	2,052	1,963	2,021	2,310	2,092	3,088	2,894	3,198	3,252
- CIVIL	91	440	78	64	90	240	83	53	138	114	181
- MILITARY	1,275	1,460	1,974	1,899	1,930	2,069	2,009	3,035	2,756	3,084	3,071
AEROSPACE MANUFACTURERS	1,533	2,059	3,042	4,017	4,786	5,456	5,402	5,165	5,942	5,696	7,321
- NATIONAL	536	737	938	1,212	1,356	1,441	1,344	1,314	1,406	1,618	1,790
- CIVIL	266	394	532	463	588	892	830	859	766	824	1,063
- MILITARY	270	343	405	749	768	549	514	455	639	794	728
- OTHER EC STATES	840	1,100	1,744	2,432	2,924	3,626	3,644	3,105	3,064	3,317	4,081
- CIVIL	229	304	446	723	1,159	1,360	1,287	1,451	1,301	1,456	1,670
- MILITARY	611	796	1,298	1,708	1,765	2,266	2,357	1,653	1,763	1,860	2,410
- NON-EC COUNTRIES	157	221	361	374	506	389	415	746	1,472	761	1,450
- CIVIL	69	95	143	254	409	313	330	363	587	570	701
- MILITARY	88	127	217	120	97	76	85	383	885	191	749
FINAL USERS	3,035	3,038	4,302	5,875	6,785	6,590	7,353	7,464	6,954	8,317	9,347
- NATIONAL (CIVIL)	328	245	349	410	473	335	500	569	368	458	472
- OTHER EC STATES	163	222	592	514	714	548	501	602	279	687	722
- CIVIL	105	161	169	160	205	245	241	332	176	363	343
- MILITARY	58	61	423	354	508	303	260	271	103	323	379
- NON-EC COUNTRIES	2,544	2,571	3,361	4,951	5,599	5,708	6,351	6,293	6,307	7,171	8,153
- CIVIL	656	607	980	1,290	1,145	1,957	2,121	1,860	2,960	2,004	2,791
- MILITARY	1,888	1,965	2,380	3,661	4,454	3,751	4,230	4,432	3,347	5,168	5,362
TOTAL	7,048	8,653	11,044	13,589	15,386	16,294	17,241	18,182	18,688	20,323	23,310

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER (MIO ECUS) BY CUSTOMERS : SPACE SECTOR

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
STATE	110	115	229	242	351	450	472	737	482	732	755
- R-D CONTRACTS	90	86	210	152	214	259	282	478	234	487	445
- CIVIL	86	83	196	145	208	180	275	471	231	485	441
- MILITARY	4	3	14	7	6	79	6	7	3	1	5
- MODIFICATIONS, REPAIRS, MAINTENANCE	0	3	5	1	3	5	6	19	16	18	18
- CIVIL	0	3	1	0	0	0	1	13	8	12	12
- MILITARY	0	0	4	1	2	5	5	6	8	6	6
- SALES	20	25	15	90	134	185	184	241	232	228	292
- CIVIL	18	22	5	85	108	176	184	171	152	205	251
- MILITARY	2	4	10	5	26	9	1	70	81	23	41
AEROSPACE MANUFACTURERS	135	152	196	277	534	509	507	661	832	704	843
- NATIONAL	32	55	56	102	147	95	110	216	258	316	294
- CIVIL	32	54	49	97	143	94	108	216	257	308	289
- MILITARY	0	1	7	5	4	0	2	1	1	9	5
- OTHER EC STATES	94	91	120	159	362	353	338	412	516	319	479
- CIVIL	94	89	109	158	357	329	338	411	515	315	476
- MILITARY	0	2	11	1	6	24	0	1	1	4	3
- NON-EC COUNTRIES	9	6	20	16	24	61	59	32	58	68	69
- CIVIL	7	5	19	14	19	41	49	32	57	68	71
- MILITARY	2	1	1	1	6	20	10	1	2	0	2
FINAL USERS	114	165	218	256	161	174	331	524	877	506	589
- NATIONAL (CIVIL)	9	6	10	14	13	17	95	219	342	192	228
- OTHER EC STATES	48	115	145	180	81	91	184	221	170	157	211
- CIVIL	48	115	145	180	81	91	184	221	170	157	211
- MILITARY	0	0	0	0	0	0	0	0	0	0	0
- NON-EC COUNTRIES	56	44	62	62	67	66	52	85	365	158	150
- CIVIL	54	27	40	29	26	32	9	39	329	158	141
- MILITARY	2	17	22	32	41	34	42	46	36	0	9
TOTAL	359	432	643	775	1,046	1,132	1,310	1,923	2,190	1,942	2,187

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER (MIO ECUS) BY CUSTOMERS : ENGINE SECTOR

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
STATE	917	907	1,213	1,175	1,281	1,255	1,367	1,351	1,534	1,697	1,761
- R-D CONTRACTS	344	358	290	324	346	375	290	322	251	386	372
- CIVIL	36	29	29	21	31	24	16	20	33	45	46
- MILITARY	308	328	261	303	315	351	273	301	218	340	326
- MODIFICATIONS, REPAIRS, MAINTENANCE	157	164	286	297	325	326	383	368	350	459	466
- CIVIL	3	6	25	17	10	9	15	7	6	36	27
- MILITARY	154	158	261	281	315	317	368	361	344	424	439
- SALES	416	385	637	553	610	555	694	662	933	852	923
- CIVIL	18	22	46	40	35	19	16	17	105	64	61
- MILITARY	398	362	590	513	576	535	677	645	829	789	862
AEROSPACE MANUFACTURERS	1,065	1,354	1,722	2,704	2,966	2,828	3,251	3,477	3,786	3,634	3,925
- NATIONAL	339	510	627	877	975	738	775	951	884	902	1,001
- CIVIL	113	153	315	448	389	256	284	329	388	361	378
- MILITARY	225	358	312	429	586	482	491	622	496	541	623
- OTHER EC STATES	511	556	573	1,041	1,156	1,205	1,398	1,263	1,365	1,199	1,348
- CIVIL	43	36	53	78	103	87	102	108	131	151	106
- MILITARY	468	520	520	963	1,052	1,118	1,296	1,155	1,234	1,048	1,242
- NON-EC COUNTRIES	216	288	522	786	836	886	1,078	1,263	1,537	1,533	1,577
- CIVIL	127	172	382	553	513	605	872	970	1,280	1,312	1,273
- MILITARY	89	115	141	233	323	281	206	293	257	221	304
FINAL USERS	699	761	1,063	1,149	1,394	1,165	1,212	1,822	1,861	1,884	1,964
- NATIONAL (CIVIL)	203	221	286	234	214	294	237	293	440	370	325
- OTHER EC STATES	52	71	164	146	213	143	124	108	120	359	295
- CIVIL	18	16	41	34	136	65	56	80	47	80	87
- MILITARY	35	55	123	112	76	78	68	29	73	279	208
- NON-EC COUNTRIES	443	469	612	769	967	728	851	1,420	1,301	1,154	1,344
- CIVIL	180	188	292	328	438	243	330	568	621	500	595
- MILITARY	263	281	320	441	529	485	521	852	681	654	749
TOTAL	2,682	3,022	3,998	5,028	5,642	5,249	5,829	6,650	7,181	7,215	7,650

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

BREAKDOWN OF EC OVERALL AEROSPACE TURNOVER (MIO ECUS) BY CUSTOMERS : EQUIPMENT SECTOR

	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
STATE	834	866	1,434	1,663	1,837	2,234	2,953	2,942	4,106	4,551	4,915
- R-D CONTRACTS	236	237	444	451	456	546	715	661	1,118	1,265	1,327
- CIVIL	6	5	7	7	4	7	14	10	182	363	287
- MILITARY	230	232	437	445	451	539	701	651	937	902	1,040
- MODIFICATIONS, REPAIRS, MAINTENANCE	163	153	210	253	266	278	391	456	630	672	742
- CIVIL	10	18	12	20	9	10	10	26	26	88	70
- MILITARY	153	136	198	233	257	268	381	430	604	584	672
- SALES	435	476	779	958	1,115	1,410	1,848	1,824	2,358	2,614	2,846
- CIVIL	35	17	51	39	40	62	41	66	277	299	292
- MILITARY	400	459	729	919	1,076	1,348	1,807	1,758	2,082	2,316	2,555
AEROSPACE MANUFACTURERS	1,401	1,717	2,546	3,412	3,586	3,973	4,142	4,422	5,811	5,634	5,787
- NATIONAL	960	1,115	1,521	1,847	2,026	2,334	2,435	2,354	3,471	3,405	3,359
- CIVIL	252	301	493	487	524	646	572	644	946	950	919
- MILITARY	708	814	1,028	1,360	1,502	1,687	1,863	1,709	2,526	2,455	2,440
- OTHER EC STATES	317	410	679	1,015	1,080	1,120	1,029	1,136	1,486	1,260	1,335
- CIVIL	51	61	126	218	253	259	227	258	370	276	279
- MILITARY	266	349	553	797	827	860	802	877	1,116	983	1,056
- NON-EC COUNTRIES	124	192	346	549	480	519	678	933	854	969	1,093
- CIVIL	72	103	143	174	108	111	169	308	297	359	374
- MILITARY	52	89	204	376	372	408	509	625	556	610	719
FINAL USERS	523	534	730	942	923	1,297	1,104	1,337	1,932	2,015	2,244
- NATIONAL (CIVIL)	148	150	201	219	211	204	291	340	413	524	507
- OTHER EC STATES	89	93	131	167	153	145	148	162	444	383	387
- CIVIL	25	52	57	78	39	41	84	72	153	184	153
- MILITARY	65	42	74	89	114	104	64	89	291	200	234
- NON-EC COUNTRIES	286	291	398	556	558	947	665	836	1,075	1,108	1,349
- CIVIL	141	125	156	360	324	394	310	382	326	480	576
- MILITARY	144	167	242	196	234	553	355	454	749	628	773
TOTAL	2,758	3,117	4,710	6,017	6,346	7,504	8,199	8,701	11,849	12,199	12,946

EC - DG III / SOURCE: INDUSTRIAL ASSOCIATIONS

INDEX OF ABBREVIATIONS

EC 10 : EC - 10 Member States (BE, DK, DE, HE, FR, IR, IT, LU, NL, UK)
 EC 12 : EC 10 + ES + PO
 EUR : Western Europe

intra-EC : with EC Member States only

extra-EC : with countries not Member of the EC

EC : European Community
 BE : Belgium
 DK : Denmark
 DE : Federal Republic of Germany
 ES : Spain
 FR : France
 HE : Greece
 IR : Ireland
 IT : Italy
 LX : Luxembourg
 NL : Netherlands
 UK : United Kingdom
 AUS : Australia
 CDN : Canada
 JPN : Japan
 SWE : Sweden
 USA : USA

ECU : European Currency Unit
 BFR : Belgian Franc
 CDK : Danish Crown
 DM : German Mark
 PTA : Peseta
 FF : French Franc
 DRA : Drachma
 IR£ : Irish Punt
 LIT : Italian Lira

 HFL : Dutch Guilder
 UK£ : Pound Sterling
 AUS\$: Australian Dollar
 CA\$: Canadian Dollar
 YEN : Japanese Yen
 SEK : Swedish Crown
 US\$: US Dollar

GDP : Gross Domestic Product

R&D : Research and Development

I.C.A.O. : International Organization for Civil Aviation

A.E.A. : Association of European Airlines

O.E.C.D. : Organization for Economic Cooperation and Development

INDEX OF SIGNS USED

Mio : Million

- or NA : Data not available

