

# Civil Aircraft and Aircraft Engines

## Summary

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Current  
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Reports

Information about the scope of the survey, methodology, explanation of terms and historical notes for this survey may be found in the introduction of the 1998 Manufacturing Profiles, issued December 2000.

Current data are released electronically on Internet for all individual surveys as they become available. Use: <http://www.census.gov/econ/www/manumenu.html>. Individual reports can be accessed by choosing "Current Industrial Reports (CIR's)," clicking on "Report Number Index;" from the "Industrial Products by Numeric Index," choose the survey of interest. Follow the menu to view the PDF file or to download the worksheet file (WK format) to your personal computer.

These data are also available through the U.S. Department of Commerce and STAT-USA Electronic Bulletin Board by subscription. To access, dial 202-482-3870 and follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information. The Internet address is: [www.stat-usa.gov/](http://www.stat-usa.gov/).

NOTE. Data are now published on the new North American Industry Classification System (NAICS) basis and therefore are not always comparable to the old Standard Industrial Classification (SIC) code. For further information on NAICS, see [www.census.gov/epcd/www/naics.html](http://www.census.gov/epcd/www/naics.html).

**SUMMARY OF FINDINGS.** In 2000, the value of complete civil aircraft shipments decreased by 10.6 percent to \$38.5 billion, from the 1999 level of \$43.1 billion. Shipments of complete civil aircraft engines increased by 17.0 percent to \$8.8 billion, from the 1999 level of \$7.5 billion.

The backlog of orders for aircraft, missiles, space vehicles, and engines, as of December 31, 2000, was \$216 billion. This was a 14-percent increase from the 1999 backlog of \$188 billion.

Net new orders received during 2000 were \$139 billion, a 20-percent increase from the \$115 billion received in 1999. Net sales, receipts, and/or billings in 2000 totaled \$111 billion, an 11-percent decrease from the \$124 billion reported in 1999.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Chris Savage, 301-457-1307.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-457-4673.

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Table 1. Quantity and Value of Shipments of Complete Civil Aircraft: 2000 and 1999  
[Quantity in number of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2000		1999	
			Quantity	Value	Quantity	Value
33641130	Complete civil aircraft.....	33	5,191	38,514,086	4,807	43,066,438
3364113004	Civil aircraft (fixed wing, powered).....	14	3,278	38,092,555	3,190	42,765,081
	Unladen weight not exceeding 2,000 kg (4,409 lb).....	9	1,870	751,260	1,789	553,607
3364113007	Unladen weight exceeding 2,000 kg (4,409 lb) but not exceeding 15,000 kg (33,069 lb) 1/.....	6	(D)	(D)	(D)	(D)
3364113011	Unladen weight exceeding 15,000 kg (33,069 lb) 1/.....	2	1,408	37,341,295	1,401	42,211,474
3364113014	Helicopters (rotary wing).....	7	788	396,263	582	276,188
	Unladen weight not exceeding 2,000 kg (4,409 lb) 2/.....	6	(D)	(D)	(D)	(D)
3364113017	Unladen weight exceeding 2,000 kg (4,409 lb) 2/.....	2	788	396,263	582	276,188
3364113021	Other civil aircraft (nonpowered) and kits.....	9	1,125	25,268	1,035	25,169
33641230	Complete civil aircraft engines.....	9	15,240	8,799,188	14,841	7,519,716
3364123001	Spark-ignition reciprocating or rotary internal combustion 3/.....	5	(D)	(D)	(D)	(D)
3364123004	Turbojet and turbofan: Of a thrust not exceeding 25 kN (5,620 lb) 3/.....	1	(D)	(D)	(D)	(D)
3364123007	Of a thrust exceeding 25 kN (5,620 lb) 3/.....	3	(D)	(D)	(D)	(D)
3364123011	Turboshaft (turbo propeller): Of a power not exceeding 1,100 kW (820 hp) 3/.....	2	(D)	(D)	(D)	(D)
3364123014	Of a power exceeding 1,100 kW (820 hp) 3/.....	3	(D)	(D)	(D)	(D)
3364123017	Other, including auxiliary power units, excluding missiles and space engines 3/.....	1	15,240	8,799,188	14,841	7,519,716

D Withheld to avoid disclosing data for individual companies. kN Kilonewtons. kW Kilowatts.

1/Product codes 3364113007 and 3364113011 are combined to avoid disclosing data for individual companies.

2/Product codes 3364113014 and 3364113017 are combined to avoid disclosing data for individual companies.

3/Product codes 3364123001, 3364123004, 3364123007, 3364123011, 3364123014, and 3364123017 are combined to avoid disclosing data for individual companies.

Table 2. Quantity and Value of Shipments of Complete Civil Aircraft by Month: 2000 and 1999  
[Quantity in number of units. Value in thousands of dollars]

Year and month	Civil aircraft, unladded weight greater than 15,000 kg 1/				Helicopters (rotary wing)				Other civil aircraft (nonpowered)			
	Quantity		Value		Quantity		Value		Quantity		Value	
2000												
January.....	215	r/	2,435,992	r/	62	r/	27,792	r/	94	r/	2,033	
February.....	252	r/	2,331,332	r/	93	r/	32,430	r/	93	r/	2,026	
March.....	280	r/	1,951,434	r/	81	r/	33,151	r/	97	r/	2,119	
April.....	269	r/	3,774,412	r/	53	r/	32,126	r/	93	r/	2,023	
May.....	288		4,352,560	r/	86	r/	30,591	r/	93	r/	2,103	
June.....	336		3,696,197	r/	60	r/	36,047	r/	93		2,047	
July.....	253	r/	2,534,915	r/	54	r/	30,865	r/	93		2,111	
August.....	255		3,211,714	r/	57	r/	31,634	r/	91		2,031	
September.....	312	r/	3,490,549	r/	63	r/	36,601	r/	100	r/	2,423	
October.....	214	r/	2,797,435	r/	65	r/	33,884	r/	92		2,058	
November.....	248	r/	3,254,806	r/	65	r/	36,515	r/	91		2,068	
December.....	356	r/	4,261,209	r/	49	r/	34,627	r/	95		2,226	
1999												
January.....	217		3,158,161	r/	34	r/	20,641		83		2,051	
February.....	241		3,207,331	r/	36	r/	19,845		84		2,053	
March.....	284		4,343,239	r/	50	r/	25,698		88		2,085	
April.....	253		3,938,069	r/	42	r/	20,933		88		2,199	
May.....	288		3,784,793	r/	42	r/	20,710		89		2,167	
June.....	308		3,507,387	r/	51	r/	25,282		88		2,120	
July.....	227		2,502,669	r/	50	r/	22,061		85		2,013	
August.....	251		4,085,330	r/	43	r/	21,336		88		2,294	
September.....	306		3,363,288	r/	41	r/	24,664		86		2,151	
October.....	290		3,305,853	r/	50	r/	25,657		85		1,996	
November.....	252		2,818,944	r/	60	r/	21,845		85		2,021	
December.....	306		4,750,017	r/	83	r/	27,516		86		2,019	

r/Revised by 5 percent or more from previously published data.

1/"Unladen weight not exceeding 2,000 kg" and "Unladen weight exceeding 2,000 kg but not exceeding 15,000 kg" are combined with "Unladen weight exceeding 15,000 kg" to avoid disclosing data for individual companies.

**Table 3. Quantity and Value of Shipments of Complete Civil Aircraft Engines: 2000 and 1999**

[Quantity in number of units. Value in thousands of dollars]

Year and month	Complete civil aircraft engines 1/	
	Quantity	Value
2000		
January.....	1,129 r/	562,481
February.....	1,317	557,559
March.....	1,532 r/	789,162
April.....	1,046 r/	702,906
May.....	1,197 r/	658,496
June.....	1,578	958,263
July.....	1,106 r/	623,572
August.....	1,166 r/	662,361
September.....	1,451	903,946
October.....	1,180	755,013
November.....	1,073	682,737
December.....	1,465	942,692
1999		
January.....	1,043	544,628
February.....	1,170	681,172
March.....	1,350	780,932
April.....	1,133	552,069
May.....	1,202	690,840
June.....	1,260	787,524
July.....	1,170	503,650
August.....	1,348	591,957
September.....	1,343	730,807
October.....	1,233	483,991
November.....	1,318	548,011
December.....	1,271	624,135

r/Revised by 5 percent or more from previously published data.

1/"Spark-ignition reciprocating or rotary internal combustion," "Turbojet and turbofan" and "Turboshaft (turbopropeller)" are combined to avoid disclosing data for individual companies.

Table 4. Shipments, Exports, and Imports of Complete Civil Aircraft and Aircraft Engines: 2000  
[Quantity in number of units. Value in thousands of dollars]

Product code 1/	Product description	Manufacturers' shipments		Exports of domestic merchandise 1/ 2/		Imports for consumption 1/ 3/	
		Quantity	Value (f.o.b. plant)	Quantity	Value at port	Quantity	Value
3364113004	Civil aircraft (fixed wing, powered): Unladen weight not exceeding 2,000 kg (4,409 lb).....	1,870	751,260	329	65,366	529	26,533
3364113011	Unladen weight exceeding 15,000 kg (33,069 lb) 4/.....	1,408	37,341,295	468	20,692,118	516	10,565,322
3364113017	Helicopters (rotary wing) 5/.....	788	396,263	304	169,879	238	490,447
33641230	Complete civil aircraft engines 6/.....	15,240	8,799,188	10,194	4,532,977	7,042	3,719,014

1/For comparison of North American Industry Classification System-based codes with Schedule B export numbers and HTSUSA import numbers, see contact at the beginning of this report.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

4/Product code 3364113007 is included with 3364113011 to avoid disclosing data for individual companies.

5/Product code 3364113014 is included with 3364113017 to avoid disclosing data for individual companies.

6/Product codes 3364123001, 3364123004, 3364123011, 3364123014, and 3364123017 are included with product code 33641230 to avoid disclosing data for individual companies.

**Table 5. Value of Backlog of Orders, and Net Sales  
Reported by Manufacturers of Complete  
Aircraft, Space Vehicles, Missiles, and  
and Selected Parts: 1992 to 2000**

[Millions of dollars]

Year	Net new orders during year 1/	Net sales during year	Backlog, end of year
2000.....	138,881	110,727	215,726
1999.....	115,257	124,181	188,409
1998.....	109,993	119,258	200,288
1997.....	118,993	114,946	218,951
1996.....	126,267	103,115	229,871
1995.....	109,109	102,797	202,638
1994.....	88,706	104,296	192,561
1993.....	79,770	109,926	211,814
1992.....	100,306	118,736	236,076

1/These totals represents new orders received during the year, less terminations during the year.

**Table 6. Value of Net New Orders, Net Sales, and Backlog of Orders of Complete Aircraft,  
Space Vehicles, Missiles and Selected Parts by United States Government and  
Other Customers: 1996 to 2000**

[Millions of dollars]

Year 1/	Net new orders 1/ (prime contracts and subcontracts)			Net sales, receipts, or billings			Backlog, end of year		
	Total	United States Govern- ment 2/	Other customers	Total	United States Govern- ment 2/	Other customers	Total	United States Govern- ment 2/	Other customers
2000.....	138,881	43,625	95,256	110,727	40,754	69,973	215,726	63,345	152,381
1999.....	115,257	48,586	66,671	124,181	45,128	79,052	188,409	63,029	125,380
1998.....	109,993	36,555	73,438	119,258	39,951	79,307	200,288	59,496	140,791
1997.....	118,993	48,194	70,799	114,946	51,374	63,572	218,951	67,662	151,290
1996.....	126,267	57,245	69,022	103,115	51,390	51,725	229,891	81,399	148,472

1/These data represent new orders received during the year, less terminations during the year.

2/These data represents prime contracts only. All subcontracts, including those where it is known that the prime contract was let by the U.S. Government, are reported as subcontracts from "Other customers."

Note: Detail items may not add to total because of independent rounding.

**Table 7. Value of Net New Orders, Net Sales, and Backlog of Orders of Complete Aircraft, Space  
Vehicles, Missiles, and Selected Parts by Military and Nonmilitary: 1996 to 2000**

[Millions of dollars]

Year 1/	Net new orders 1/ (prime contracts and subcontracts)			Net sales, receipts, or billings			Backlog, end of year		
	Total	Military	Nonmilitary	Total	Military	Nonmilitary	Total	Military	Nonmilitary
2000.....	138,881	54,111	84,770	110,727	43,517	67,210	215,726	76,600	139,126
1999.....	115,257	49,696	65,561	124,181	49,690	74,491	188,409	68,379	120,029
1998.....	109,993	38,679	71,314	119,258	45,110	74,148	200,288	69,962	130,326
1997.....	118,993	47,802	71,192	114,946	50,648	64,298	218,951	78,870	140,082
1996.....	126,267	62,127	64,140	103,115	53,153	49,962	229,871	89,500	140,371

1/These data represent new orders received during the year, less terminations during the year.

Note: Detail items may not add to total because of independent rounding.

Table 8. Value of Net New Orders, Net Sales, and Backlog of Orders of Complete Aircraft, Space Vehicles, Missiles, and Selected Parts: 2000 and 1999  
[Millions of dollars]

Product description	No. of cos.	Net new orders			Shipments (or net sales)	Backlog, end of year
		Total	Prime contract 1/	Sub- contract 1/		
2000						
Total.....	50	138,881	138,480	401	110,727	215,726
Military.....	(NA)	54,111	54,111	(NA)	43,517	76,600
U.S. Government.....	31	39,147	39,147	(NA)	35,823	55,559
Other governments.....	19	14,964	14,964	(NA)	7,694	21,041
Nonmilitary.....	(NA)	84,770	84,369	401	67,210	139,126
U.S. Government.....	16	4,478	4,478	(NA)	4,931	7,786
Other customers.....	37	80,292	79,891	401	62,279	131,340
Complete aircraft and parts.....	(NA)	81,376	81,251	125	58,007	138,924
Military.....	(NA)	27,536	27,536	(NA)	19,984	39,333
Nonmilitary.....	(NA)	53,840	53,715	125	38,023	99,591
Aircraft engines and parts.....	(NA)	15,096	14,981	115	12,480	18,920
Military.....	(NA)	3,972	3,972	(NA)	3,541	3,621
Nonmilitary.....	(NA)	11,124	11,009	115	8,939	15,299
Missile systems and parts, excluding propulsion units.....	(NA)	9,502	9,502	(NA)	5,781	9,387
Military.....	(NA)	9,502	9,502	(NA)	5,781	9,387
U.S. Government.....	6	8,652	8,652	(NA)	4,513	7,552
Other governments.....	3	850	850	(NA)	1,268	1,835
Space vehicle systems and parts, excluding propulsion units.....	(NA)	7,205	7,205	(NA)	9,079	21,190
Military.....	(NA)	2,310	2,310	(NA)	3,723	10,400
Nonmilitary.....	(NA)	4,895	4,895	(NA)	5,356	10,790
U.S. Government.....	8	2,646	2,646	(NA)	2,593	2,417
Other customers.....	4	2,249	2,249	(NA)	2,763	8,373
Engines and/or propulsion units for missile systems and space						
vehicles, including parts.....	(NA)	1,441	1,430	11	1,885	5,435
Military.....	(NA)	495	495	(NA)	687	819
Nonmilitary.....	(NA)	946	935	11	1,198	4,616
Other aircraft, space vehicle, and missile activities 3/.....	(NA)	6,681	6,561	120	6,931	11,685
Military.....	(NA)	3,617	3,617	(NA)	3,053	7,504
U.S. Government.....	(NA)	2,971	2,971	(NA)	2,531	5,274
Other governments.....	(NA)	646	646	(NA)	522	2,230
Nonmilitary.....	(NA)	3,064	2,944	120	3,878	4,181
Research and development (under contract).....	(NA)	3,702	3,701	1	3,388	2,874
Military.....	(NA)	3,140	3,140	(NA)	2,698	2,512
U.S. Government.....	21	2,920	2,920	(NA)	2,510	2,321
Other governments.....	8	220	220	(NA)	188	191
Nonmilitary.....	11	562	561	1	690	362
All other products and services.....	(NA)	13,878	13,849	29	13,176	7,341
Military.....	(NA)	3,540	3,540	(NA)	4,050	3,024
U.S. Government.....	16	3,043	3,043	(NA)	3,352	2,448
Other governments.....	8	497	497	(NA)	698	576
Nonmilitary.....	(NA)	10,338	10,309	29	9,126	4,317
U.S. Government.....	5	644	644	(NA)	692	1,342
Other customers.....	18	9,694	9,665	29	8,434	2,975
1999						
Total.....	49	115,257	114,647	610	124,181	188,409
Military.....	(NA)	49,696	49,696	(NA)	49,690	68,379
U.S. Government.....	40	41,665	41,665	(NA)	40,292	54,282
Other governments.....	24	8,031	8,031	(NA)	9,398	14,098
Nonmilitary.....	(NA)	65,561	64,951	610	74,491	120,029
U.S. Government.....	18	6,921	6,921	(NA)	4,837	8,747
Other customers.....	45	58,640	58,030	610	69,654	111,282
Complete aircraft and parts.....	(NA)	56,951	56,850	101	68,024	116,786
Military.....	(NA)	21,422	21,422	(NA)	22,917	33,374
Nonmilitary.....	(NA)	35,529	35,428	101	45,107	83,412

Continued

Table 8. Value of Net New Orders, Net Sales, and Backlog of Orders of Complete Aircraft, Space Vehicles, Missiles, and Selected Parts: 2000 and 1999  
[Millions of dollars]

Product description	No. of cos.	Net new orders			Shipments (or net sales)	Backlog, end of year
		Total	Prime contract 1/	Sub- contract 1/		
Aircraft engines and parts.....	(NA)	16,076	15,777	299	14,425	16,375
Military.....	(NA)	3,587	3,587	(NA)	3,126	3,191
Nonmilitary.....	(NA)	12,489	12,190	299	11,299	13,184
Missile systems and parts, excluding propulsion units.....	(NA)	3,753	3,753	(NA)	4,521	5,342
Military.....	(NA)	3,753	3,753	(NA)	4,521	5,342
U.S. Government.....	8	2,184	2,184	(NA)	3,662	2,970
Other governments.....	4	1,569	1,569	(NA)	859	2,372
Space vehicle systems and parts, excluding propulsion units.....	(NA)	11,175	11,175	(NA)	9,022	22,356
Military.....	(NA)	7,912	7,912	(NA)	5,107	10,666
Nonmilitary.....	(NA)	3,263	3,263	(NA)	3,915	11,690
U.S. Government.....	9	2,233	2,233	(NA)	1,272	2,775
Other customers.....	7	1,030	1,030	(NA)	2,643	8,915
Engines and/or propulsion units for missile systems and space vehicles, including parts 2/.....	(NA)	3,896	3,893	3	2,118	6,182
Military.....	(NA)	687	687	(NA)	525	1,017
Nonmilitary.....	(NA)	3,209	3,206	3	1,593	5,165
Other aircraft, space vehicle, and missile activities 3/.....	(NA)	10,867	10,762	105	9,234	9,774
Military.....	(NA)	7,463	7,463	(NA)	5,519	7,305
U.S. Government.....	(NA)	4,895	4,895	(NA)	4,522	4,788
Other governments.....	(NA)	2,568	2,568	(NA)	997	2,517
Nonmilitary.....	(NA)	3,405	3,300	105	3,715	2,469
Research and development (under contract).....	(NA)	3,545	3,524	21	4,300	3,181
Military.....	(NA)	2,798	2,798	(NA)	3,543	2,599
U.S. Government.....	23	2,553	2,553	(NA)	3,298	2,439
Other governments.....	7	245	245	(NA)	245	160
Nonmilitary.....	13	747	726	21	757	582
All other products and services.....	(NA)	8,992	8,911	81	12,535	8,413
Military.....	(NA)	2,074	2,074	(NA)	4,431	4,886
U.S. Government.....	19	1,755	1,755	(NA)	3,734	4,284
Other governments.....	10	319	319	(NA)	697	602
Nonmilitary.....	(NA)	6,919	6,838	81	8,104	3,527
U.S. Government.....	8	1,167	1,167	(NA)	1,854	1,394
Other customers.....	26	5,752	5,671	81	6,250	2,133

NA Not available.

1/"Net new orders, Subcontract" are included with "Net new orders, Prime contract" to avoid disclosing data for individual companies.

2/Data for "Engines and/or propulsion units for space vehicles, including parts" are included with data for "Engines and/or propulsion units or missile systems, including parts."

3/Data for "Other missile activities" are included with data for "Other aircraft and space vehicles."

Note: Net new orders represent new orders received during the year, less terminations during the year. In some cases current backlog will not equal the backlog for the previous period, plus current net new orders, minus current shipments. This is primarily due to respondents changing their accounting procedures from one year to the next. Data for these respondents were not changed to force a balance. Significant imbalances due to reporting errors were investigated and corrected. Detail items may not add to total because of independent rounding.