

# Electromedical and Irradiation Equipment

2000

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Current  
Industrial  
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 total value of shipments of electromedical and irradiation equipment amounted to \$14.4 billion, an increase of 4.3 percent from \$13.8 billion in 1999. Shipments of X-ray and other irradiation equipment increased 8.2 percent to \$3.5 billion in 2000, from \$3.2 billion in 1999. Shipments of electromedical equipment increased 3.0 percent to \$10.9 billion in 2000, from \$10.6 billion in 1999.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Kellie Garner, 301-457-4827.

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

**U S C E N S U S B U R E A U**

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**Table 1. Value of Shipments of Electromedical Equipment and Irradiation Equipment by Class of Product: 1995 to 2000**  
 [Value in millions of dollars]

Product code	Product description	2000	1999	1998	1997	1996	1995
3345170	X-ray and other irradiation equipment .....	3,521.1	3,253.1	3,312.9	3,139.1	2,900.9	2,698.1
3345101	Electromedical equipment.....	10,883.5	10,567.9	9,763.8	9,051.1	8,318.8	7,124.8

Table 2. Quantity and Value of Shipments of Electromedical Equipment and Irradiation Equipment: 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
	Electromedical and irradiation equipment.....	242	(X)	14,404,559	(X)	13,820,947
	Medical diagnostic equipment:					
	X-ray equipment:					
3345170103	Digital radiography equipment.....	5	2,517	101,380	3,185	76,265
3345170106	Computerized axial tomography (CT or CAT SCAN).....	6	2,740	767,983	r/ 3,105	656,433
3345170109	Dental and conventional.....	12	18,054	553,411	b/ 21,797	502,436
3345170112	All other medical diagnostic X-ray equipment.....	16	(X)	(D)	(X)	(D)
3345170115	Nuclear medicine equipment (all equipment used for nuclear in vivo studies).....	7	1,581	478,275	1,801	482,750
3345101103	Magnetic resonance imaging equipment (MRI).....	7	(D)	(D)	(D)	(D)
3345101106	Ultrasound scanning devices.....	11	b/ 20,659	1,379,635	19,898	1,360,741
3345101109	Electrocardiograph (EKG).....	11	93,657	183,096	131,147	a/ 251,243
3345101112	Electroencephalograph (EEG) and electromyograph (EMG).....	5	(D)	(D)	(D)	(D)
3345101115	Audiological equipment.....	6	(X)	10,687	(X) c/r/	12,668
3345101118	Endoscopic equipment (bronchoscope, cystoscope, proctosigmoidoscope, colonoscope, etc.).....	5	(D)	(D)	(D)	(D)
3345101121	Respiratory analysis equipment.....	4	5,842	35,355	(D)	(D)
3345101124	All other medical diagnostic equipment.....	23	(X)	(D)	(X)	(D)
	Patient monitoring equipment:					
3345101227	Intensive care/coronary care units, including component modules such as temperature, blood pressure, and pulse.....	16	(X)	518,659	(X)	530,477
3345101233	Prenatal and respiratory monitoring.....	8	(X) c/	87,782	(X) c/	87,778
3345101237	All other patient monitoring.....	31	(X) a/	636,210	(X) r/	698,139
	Medical therapy equipment:					
3345101241	Ultrasound therapy.....	6	(X) b/	20,911	(X)	18,330
3345101244	Pacemakers 1/.....	4	(D)	(D)	(D)	(D)
3345101247	Defibrillators.....	8	80,652	884,815	r/ 73,568	804,973
3345101251	Dialyzers, including machines and equipment.....	4	(X)	518,316	(X)	503,484
3345101254	Medical laser equipment.....	12	(X)	546,008	(X)	675,058
3345170118	Radiation therapy (linear accelerators, X-ray, cobalt 60, brachtherapy) 1/.....	9	(X)	(D)	(X)	(D)
3345101257	All other medical therapy equipment.....	34	(X) a/	1,242,024	(X) r/	1,160,811
	All other irradiation and electromedical equipment:					
3345170121	Industrial and scientific X-ray equipment.....	18	3,936	a/ 230,248	(D)	(D)
3345170124	X-ray tubes, sold separately.....	12	24,104	179,013	(D)	(D)
3345170227	Other nonmedical irradiation equipment, including gamma- and beta-ray equipment, n.e.c. ....	4	(X)	(D)	(X)	16,189
3345170331	Parts and accessories for X-ray equipment and other nonmedical irradiation equipment, n.e.c. ....	23	(X) a/	171,025	(X)	134,845
	Surgical systems:					
3345101361	Electrosurgical equipment.....	9	(X)	420,103	(X)	351,108
3345101364	Heart-lung machines, excluding iron lungs 2/.....	1	(D)	(D)	(D)	(D)
3345101367	Blood flow systems 2/.....	7	(X)	(D)	(X)	(D)
3345101371	All other surgical support systems.....	14	(X)	396,410	(X) a/	358,036
3345101374	Other electromedical equipment (except diagnostic and therapeutic), n.e.c. ....	13	(X)	234,701	(X) b/	164,075
3345101477	Electromedical parts and accessories, including diagnostic and therapeutic, n.e.c. ....	37	(X)	808,853	(X) r/	793,819

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified. r/Revised by 5 percent or more from previously published data. X Not applicable.

1/Product codes 3345101244 and 3345170118 have a combined shipments value of 1,622,412 for 2000 and 1,613,450 for 1999.  
 2/Product codes 3345101364 and 3345101367 have a combined shipments value of 535,160 for 2000 and 542,606 for 1999.

Note: Percent of estimation for each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Shipments, Exports, and Imports of Electromedical and Irradiation Equipment: 2000  
 [Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise (value at port) 1/	Imports for consumption (value) 2/ 3/
3345170106	Computerized axial tomography (CT or CAT SCAN)...	767,983	144,179	287,708
3345170103, 109, 112, 115, 118	Medical X-ray and nuclear equipment, diagnostic and therapeutic .....	2,152,907	483,540	517,158
3345170121	Industrial and scientific X-ray equipment.....	230,248	235,241	78,319
3345170124	X-ray tubes, sold separately.....	179,013	191,653	132,290
3345170331	Parts and accessories for X-ray equipment and other nonmedical irradiation equipment, n.e.c. ....	171,025	470,454	407,243
3345170227	Nonmedical irradiation equipment, including gamma- and beta-ray equipment, n.e.c. ....	(D)	20,732	5,616
3345101109	Electrocardiograph (EKG), diagnostic.....	183,096	60,936	16,932
3345101112	Electroencephalographs (EEG) and eletromyograph (EMG) .....	(D)	26,184	5,619
3345101106	Ultrasound scanning devices, diagnostic.....	1,379,635	493,899	140,378
3345101103	Magnetic resonance imaging equipment (MRI).....	(D)	372,248	335,861
3345101244	Pacemakers, therapeutic.....	(D)	380,922	287,670
3345101115, 118, 121, 124	Diagnostic electromedical equipment, n.e.c. ....	211,027	968,859	501,731
3345101247, 254, 257	Therapeutic electromedical equipment, n.e.c. ....	2,672,847	149,332	53,393
3345101364, 367, 371, 374	Electromedical equipment and irradiation equipment, including X-ray, n.e.c. ....	1,166,271	230,190	444,370
3345101251	Dialyzers, machines and equipment.....	518,316	83,559	14,831
3345101227, 233, 237	Patient monitoring equipment .....	1,242,651	223,013	115,855
3345101241	Therapeutic ultrasound equipment.....	20,911	20,486	1,361
3345101361	Electrosurgical equipment.....	420,103	619,952	106,762
3345101477	Electromedical parts and accessories, including diagnostic and therapeutic, n.e.c. ....	808,853	672,027	721,036

D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified.

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

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

3/Represents c.i.f. (cost, insurance, and freight) value at first port of entry in the United States plus import duties.

Table 4. Comparison of North American Industry Classification System-Based Product Codes with Schedule B Export Numbers, and HTSUSA Import Numbers: 2000

Product code	Product description	Export number 1/	Import number 2/
3345170106	Computerized axial tomography (CT or CAT SCAN)...	9022.12.0000	9022.12.0000
3345170103, 109, 112, 115, 118	Medical X-ray and nuclear equipment, diagnostic and therapeutic .....	9022.13.0000 9022.14.0000 9022.21.0000	9022.13.0000 9022.14.0000 9022.21.0000
3345170121	Industrial and scientific X-ray equipment.....	9022.19.0000	9022.19.0000
3345170124	X-ray tubes, sold separately.....	9022.30.0000	9022.30.0000
3345170331	Parts and accessories for X-ray equipment and other nonmedical irradiation equipment, n.e.c. ....	9022.90.4000 9022.90.6000 9022.90.8000	9022.90.4000 9022.90.6000 9022.90.9500
3345170227	Nonmedical irradiation equipment, including gamma- and beta-ray equipment, n.e.c. ....	9022.29.8000	9022.29.8000
3345101109	Electrocardiograph (EKG), diagnostic.....	9018.11.0040	9018.11.3000
3345101112	Electroencephalographs (EEG) and eletromyograph (EMG), diagnostic .....	9018.19.9535	9018.19.9535
3345101106	Ultrasound scanning devices, diagnostic.....	9018.12.0000	9018.12.0000
3345101103	Magnetic resonance imaging equipment (MRI).....	9018.13.0000	9018.13.0000
3345101244	Pacemakers, therapeutic.....	9021.50.0000	9021.50.0000
3345101115, 118, 121, 124	Diagnostic electromedical equipment, n.e.c. ....	9018.19.4000 9018.19.9530 9018.19.9550	9018.19.4000 9018.19.9530 9018.19.9550
3345101247, 254, 257	Therapeutic electromedical equipment, n.e.c. ....	9018.90.7060	9018.20.0040 9018.90.6400 9018.90.7560
3345101364, 367, 371, 374	Electromedical equipment and irradiation equipment, including X-ray, n.e.c. ....	9018.20.0000 9018.90.7080	9018.20.0080 9018.90.7580
3345101251	Dialyzers, machines and equipment.....	9018.90.7020	9018.90.7520
3345101227, 233, 237	Patient monitoring equipment .....	9018.19.5500	9018.19.5500
3345101241	Therapeutic ultrasound equipment.....	9018.90.7040	9018.90.7540
3345101361	Electrosurgical equipment.....	9018.90.6000	9018.90.6000
3345101477	Electromedical parts and accessories, including diagnostic and therapeutic, n.e.c. ....	9018.11.0080 9018.19.7500 9018.19.9560 9018.90.7070	9018.11.9000 9018.19.7500 9018.19.9560 9018.90.7570 9021.90.4080

n.e.c. Not elsewhere classified.

1/Source: 2000 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2000).