

Appendix table 6-8

## Japan industrial R&amp;D performance: 1987–2000

(Millions of PPP dollars)

Industry	ISIC code	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Total business enterprise .....		30,901.0	35,424.4	41,340.2	47,450.1	50,466.4	50,811.2	49,122.5	49,727.6	55,288.9	60,733.6	65,384.0	64,814.4	65,603.8	69,699.7
Total manufacturing .....	15–37	29,819.6	34,119.5	39,833.9	45,574.5	48,574.3	48,641.0	46,891.6	47,504.3	53,198.3	57,372.2	61,997.0	60,840.8	61,677.2	66,191.8
Food products and beverages.....	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tobacco products.....	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Textiles .....	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wearing apparel and fur.....	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Leather products and footwear.....	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wood and cork (not furniture).....	20	76.7	87.4	150.8	126.3	160.9	145.9	168.2	176.9	202.8	197.2	206.3	207.5	168.6	193.6
Pulp, paper, and paper products.....	21	262.6	334.0	398.0	442.3	474.4	397.0	394.9	405.0	478.8	502.4	526.9	NA	NA	NA
Publishing, printing, and reproduction of recorded media.....	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coke, refined petroleum products, and nuclear fuel.....	23	334.2	367.4	423.1	471.6	459.0	478.2	444.9	437.9	398.7	377.4	395.9	302.1	247.8	228.1
Chemicals and chemical products.....	24	5,218.5	5,834.5	6,602.4	7,265.6	8,019.2	8,535.8	8,486.1	8,556.9	9,149.5	9,620.2	9,750.0	9,787.7	9,800.8	10,435.0
Pharmaceuticals.....	2423	1,811.4	2,042.3	2,289.2	2,642.6	3,056.6	3,419.5	3,413.8	3,504.1	3,778.9	4,028.3	3,946.3	4,087.6	4,254.9	4,789.1
Rubber and plastic products.....	25	814.7	943.4	1,168.6	1,176.9	1,325.7	1,326.9	1,294.5	1,375.7	1,452.1	1,589.2	1,569.6	1,562.5	1,603.8	1,669.6
Nonmetallic mineral products.....	26	847.1	973.7	1,112.7	1,104.1	1,345.9	1,139.8	1,078.4	1,009.3	1,176.7	1,290.4	1,305.0	1,303.2	1,133.2	1,134.3
Basic metals .....	27	1,664.9	1,813.8	1,985.8	2,279.0	2,637.5	2,435.0	2,361.5	2,086.2	2,160.4	2,142.3	2,299.8	1,975.8	1,892.3	1,942.3
Fabricated metal products.....	28	451.6	439.2	549.4	664.6	711.2	674.4	654.3	616.9	694.9	892.1	816.2	753.9	676.9	775.8
Machinery NEC.....	29	2,534.5	2,771.7	3,386.7	4,110.6	4,349.0	4,235.7	4,355.9	4,617.7	4,934.6	5,253.8	5,659.6	5,656.1	5,839.0	6,447.3
Office, accounting, and computing machinery.....	30	2,223.0	2,954.7	4,084.6	4,591.3	4,829.6	4,382.8	4,358.2	4,295.9	4,987.6	6,020.9	6,403.7	6,468.2	7,034.1	7,560.4
Electrical machinery.....	31	3,170.0	3,636.4	4,353.9	5,108.7	5,233.2	5,145.6	5,274.5	5,564.2	6,077.9	6,601.7	6,918.1	6,746.3	6,231.0	6,848.4
Radio, television, and communication equipment and apparatus.....	32	5,581.0	6,293.9	6,652.3	7,445.8	8,106.3	8,487.0	7,702.5	8,194.2	9,701.6	9,798.0	10,749.7	10,850.7	11,734.8	13,090.7
Instruments, watches, and clocks.....	33	972.5	1,170.4	1,337.2	1,722.1	1,626.8	1,740.5	1,747.2	1,842.6	2,091.3	2,211.7	2,582.1	2,842.9	3,033.5	3,124.6
Motor vehicles.....	34	3,771.7	4,511.5	5,385.9	6,556.8	6,549.9	6,738.6	5,807.5	5,521.4	6,721.2	7,757.4	8,494.0	8,317.1	7,971.7	8,638.8
Other transport equipment .....	35	423.3	360.2	454.8	562.8	715.6	543.8	576.8	507.3	564.7	658.9	873.7	893.6	867.0	760.1
Building and repairing of ships and boats.....	351	41.8	46.2	58.9	66.1	75.8	101.9	99.2	87.3	81.8	74.7	67.3	120.4	61.0	58.5
Aircraft and spacecraft.....	353	281.3	239.6	311.0	407.2	550.4	350.5	381.3	316.5	365.4	449.5	647.0	623.0	636.9	550.8
Furniture, other manufacturing NEC.....	36	259.8	278.5	312.1	356.4	401.4	411.8	394.0	473.3	467.8	483.5	559.5	581.3	642.8	624.4
Recycling .....	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Construction.....	45	611.0	727.8	930.4	1,090.3	1,060.1	1,295.1	1,348.9	1,226.5	1,202.6	1,355.6	1,364.2	1,060.4	1,230.9	1,215.0
Total services.....	50–99	830.7	1,012.3	1,196.7	1,315.0	1,071.6	1,062.8	1,111.7	1,249.3	1,661.4	2,578.9	2,895.6	2,060.1	1,800.1	1,479.1
Hotels and restaurants .....	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Communications.....	64	790.3	975.4	1,148.3	1,234.9	947.5	963.9	1,020.7	1,178.3	1,566.8	1,440.5	1,755.7	NA	NA	NA
Computer and related activities.....	72	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,069.7	1,051.3	1,973.0	1,695.3	1,350.8
R&D .....	73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ISIC International Standard Industrial Classification; NA not available; NEC not elsewhere classified; PPP purchasing power parity

NOTES: Wood, paper, printing, and publishing (ISIC, R-3: 20...22) includes furniture (ISIC, R-3: 361). Pulp, paper, and paper products (ISIC, R-3: 21) includes publishing, printing, and reproduction of recorded media (ISIC, R-3: 22). Industry-level data may not add to totals because of rounding and incomplete data.

SOURCE: Organisation for Economic Co-operation and Development, EAS, ANBERD database, July 2002.

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