2017 Results Orders, Production and Shipments of Manipulators and Robots by Applications [JARA Members and Non-members]

		Number of units, () : million yen
2016	2017	Change from 2016
182,098	235,268	29.2%
(739,298)	(944,702)	(27.8%)
174,606	233,981	34.0%
(703,387)	(877,657)	(24.8%)
	182,098 (739,298) 174,606	182,098 235,268 (739,298) (944,702) 174,606 233,981

Applications Exports Total Domestic bismest Exports Total Domestic bismestic Exports <t< th=""><th>Shipments</th><th></th><th>2016</th><th></th><th></th><th>2017</th><th></th><th>Cha</th><th>nge from 2</th><th>016</th><th></th><th>2016</th><th></th><th></th><th>2017</th><th></th></t<>	Shipments		2016			2017		Cha	nge from 2	016		2016			2017	
Applications Expons Dotal elements Expons Oral Expons Oral					-	-		Change from 2016					(percentage distribution)			
Arc welding 3,694 14,535 18,229 3,393 17,527 21,466 6,6% 20,6% 17,8% 8,7% 10,9% 10,4% 8,0% 9,5% 9,2% Laser welding 31 110 141 26 37 63 -16,1% -55,3% 0,1% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,1% 0,1% 0,1% 0,1% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,1% 0,1% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2% 0,2%	Applications		Exports	Total		Exports	Total		Exports	Total		Exports	Total		Exports	Total
Spot welding Uaser welding 4,750 17,309 22,059 3,985 23,403 27,388 -16,1% 35,2% 24,2% 11,2% 13,0% 0,1% 0,1% 0,0%<	Plastic moulding	3,072	4,370	,	3,354	5,536	8,890	9.2%	26.7%	19.5%	7.2%	3.3%	4.2%	6.8%	3.0%	3.8%
Laser welding Others 31 110 141 26 37 63 -16.1% -66.4% -55.3% 0.1% 0.1% 0.1% 0.0%	Arc welding	3,694	14,535	18,229	3,939	17,527	21,466	6.6%	20.6%	17.8%	8.7%	10.9%	10.4%	8.0%		9.2%
Others 36 11 47 48 354 402 33.3% 3118.2% 755.3% 0.1% 0.0% 0.1% 0.2% 0.2% 0.2% Welding Units 8,310 31,965 40,476 7,998 41,321 49,319 -6.0% 23.3% 21.8% 20.0% 23.0% 16.3% 22.4% 21.1% (13.9%) (15.2%) (16.1%) (17.5%) (16.1%) (17.5%) (16.1%) (17.5%) (16.1%) (17.5%) (16.1%) (15.9%) Painting 1,669 4,541 6,410 2,589 9,318 11,007 38.5% 10.5% 85.5% 4.4% 3.4% 3.7% 5.3% 5.1% 5	Spot welding	4,750	17,309		<i>'</i>	23,403	27,388	-16.1%	35.2%	24.2%		13.0%	12.6%	8.1%		11.7%
Welding (million yen) 45,511 (42,034) 31,965 (83,105) 40,476 (125,409) 7,998 (39,702) 41,321 (103,725) 49,319 (42,877) 5.0% (42,47%) 21,8% (13,29%) 20,0% (103,29%) 21,0% (10,39%) 21,0% (11,39%) 22,0% (15,3%) 22,0% (15,2%) 21,0% (15,4%) 21,0% (15,4%) 21,0% (12,4%) 21,0% (12,4%) 21,0% (14,4%) 21,0% (10,4%) 21,0% (10,4%) 21,0% (10,4%) 21,0% (10,4%) 21,0% (10,4%) 21,0% (10,0% 21,0% (10,0% </td <td>Laser welding</td> <td>31</td> <td>110</td> <td>141</td> <td></td> <td>37</td> <td>63</td> <td>-16.1%</td> <td>-66.4%</td> <td>-55.3%</td> <td>0.1%</td> <td>0.1%</td> <td>0.1%</td> <td>0.1%</td> <td>0.0%</td> <td>0.0%</td>	Laser welding	31	110	141		37	63	-16.1%	-66.4%	-55.3%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%
(million yen) (42,304) (83,105) (125,409) (39,702) (103,125) (142,827) (-6.2%) (24.1%) (13.9%) (15.8%) (17.5%) (16.1%) (15.9%) Painting 533 1.569 2.162 776 2.0422 2.758 20.7% 30.1% 27.6% 1.4% 1.2% 1.2% 1.5% 1.1% 1.2% Loading/unloading 1.869 4.541 6.410 2.589 9.318 11.90 24.3% 105.2% 85.8% 4.4% 3.3% 0.0	Others	36	11	47	48	354	402	33.3%	3118.2%	755.3%	0.1%	0.0%	0.0%	0.1%	0.2%	0.2%
Painting 593 1,569 2,162 716 2,042 2,758 20.7% 30.1% 27.6% 1.4% 1.2% 1.2% 1.1% 1.2% Loading/unloading Mechanical cutting Grinding/deburring 1,669 4,541 6,410 2,589 9,318 11,907 38.5% 106.2% 85.8% 4.4% 3.4% 3.7% 5.3% 5.1% 0.0% <	Welding Units	8,511	31,965	40,476	7,998	41,321	49,319	-6.0%	29.3%	21.8%	20.0%	24.0%	23.0%	16.3%	22.4%	21.1%
Loading/unloading Mechanical cutting Grinding/deburring 1.869 4.541 6.410 2.589 9.318 11.907 38.5% 105.2% 85.8% 4.4% 3.4% 3.7% 5.3% 5.1% 5.1% Grinding/deburring Others 6 1 7 14 10 24 133.3% 900.0% 242.9% 0.0% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2%	(million yen)	(42,304)	(83,105)	(125,409)	(39,702)	(103,125)	(142,827)	(-6.2%)	(24.1%)	(13.9%)	(19.2%)	(16.8%)	(17.5%)	(16.1%)	(15.9%)	(15.9%)
Mechanical cutting Grinding/deburring 6 1 7 14 10 24 133.3% 900.0% 242.9% 0.0% <	Painting	593	1,569	2,162	716	2,042	2,758	20.7%	30.1%	27.6%	1.4%	1.2%	1.2%	1.5%	1.1%	1.2%
Grinding/deburring Others 250 285 535 311 891 1,202 24.4% 212.6% 124.7% 0.6% 0.2% 0.3% 0.6% 0.5% 0.5% Others 800 10 900 50 16 66 -37.5% 60.0% -26.7% 0.2% 0.2% 0.1% 0.1% 0.0% 0.5% 0.5% Machining Units 2,205 4,837 7,042 2,964 10,235 13,199 34.4% 111.6% 87.4% 5.2% 3.6% 4.0% 6.0% 5.5% 3.4% 6.0% 7.6% 5.1% 3.4% 4.11.6% 87.4% 4.5% 1.2.6% 1.2.6% 1.3% 1.4.5% 1.7.6% 6.0% 6.3% 5.5% 3.4% 6.7% 6.3.2% 67.7.9% 6.3.8% 13.8% 14.3% 14.5% 17.6% 2.3% Other Assembly 2,957 12,511 903 4.473 3.67.7 63.2% 67.7% 6.3.2% 67.5% 6.3.6%		1,869	4,541	6,410	2,589	9,318	11,907	38.5%	105.2%	85.8%	4.4%	3.4%	3.7%	5.3%	5.1%	5.1%
Others 80 10 90 50 16 66 -37.5% 60.0% -26.7% 0.2% 0.0% 0.1% 0.0% 0.0% 0.0% Machining Units 2,205 4,837 7,042 2,964 10,235 13,199 34.4% 111.6% 87.4% 52% 3.6% 4.0% (2,4%) (2,3%) (2,4%) (2,2%) (2,4%) (2,3%) (3,3%) Surface Mount Technology 12,68 8.397 9,660 1,660 12,418 14,078 31.4% 47.9% 45.7% 13.8% 14.3% (4.6%) (2,1%) (2,1%) (1,1%) 0.1% 0.0% 0.0% 0.3% 6.3% 5.5% 3.4% 6.7% 6.32% 57.3% 15.8% 14.3% 14.5% 17.6% 17.6% Other Assembly 2,954 9,557 12,511 903 4,473 5,376 69.4% 53.2% 5.6% 5.0% 6.6% 6.2% 1.3% 1.4% 2.4% 2.3% <tr< td=""><td>Mechanical cutting</td><td>6</td><td>1</td><td>7</td><td>14</td><td>10</td><td>24</td><td>133.3%</td><td>900.0%</td><td>242.9%</td><td>0.0%</td><td>0.0%</td><td>0.0%</td><td>0.0%</td><td>0.0%</td><td>0.0%</td></tr<>	Mechanical cutting	6	1	7	14	10	24	133.3%	900.0%	242.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Machining (million yen) Units 2,205 (10,455) 4,837 (20,603) 7,042 (13,215) 2,964 (15,897) 10,235 (29,113) 13,199 (30,2%) 34.4% (52,1%) 11.6% (41,3%) 5.2% (4,6%) 3.6% (2,1%) 4.0% (2,1%) 6.0% (2,1%) 1.0% (2,1%) 6.0% (2,0%) <	Grinding/deburring	250	285	535	311	891	1,202	24.4%	212.6%	124.7%		0.2%	0.3%	0.6%	0.5%	0.5%
(million yen) (10,148) (10,455) (20,603) (13,215) (15,897) (29,113) (30.2%) (52.1%) (41.3%) (4.6%) (2.1%) (2.9%) (5.4%) (2.4%) (2.9%) (5.4%) (2.4%) (2.9%) (5.4%) (2.4%) (3.3%) Surface Mount Technology 1,263 8,397 9,660 1,660 12,418 14,078 31.4% 47.9% 45.7% 3.0% 6.3% 5.5% 3.4% 6.7% 6.0% General Assembly 6,747 18,401 25,148 7,153 32,415 39,567 6.0% 76.2% 57.3% 15.8% 13.8% 14.3% 14.5% 17.6% 17.0% Other Assembly 2,954 9,557 12,511 903 4,473 5,376 -69.4% -53.2% -56.5% 6.6% 6.2% 1.3% 1.8% 1.7% Soldering 2,142 233 857 725 812 -4.4% 212.5% 151.4% 0.0% 0.0% 0.0% 0.0%	Others	80	10	90	50	16	66	-37.5%	60.0%	-26.7%	0.2%	0.0%	0.1%	0.1%	0.0%	0.0%
Surface Mount Technology 1,263 8,397 9,660 1,660 12,418 14,078 31.4% 47.9% 45.7% 3.0% 6.3% 5.5% 3.4% 6.7% 6.0% General Assembly 6,747 18,401 25,148 7,153 32,415 39,567 6.0% 76.2% 57.3% 15.8% 13.8% 14.3% 14.5% 17.6% 17.0% Other Assembly 2,954 9,557 12,511 903 4,473 5,376 -69.4% -53.2% -57.0% 6.6% 6.2% 1.3% 14.5% 17.6% 17.0% Bonding 2,125 8,770 10,895 644 3,229 3,873 -69.7% -63.2% -64.5% 5.0% 6.6% 6.2% 1.3% 1.8% 1.7% Soldering 244 283 527 2 -99.2% -100.0% -99.6% 0.6% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2%	Machining Units	2,205	4,837	7,042	2,964	10,235	13,199	34.4%	111.6%	87.4%	5.2%	3.6%	4.0%	6.0%		5.7%
General Assembly 6,747 18,401 25,148 7,153 32,415 39,567 6.0% 76.2% 57.3% 15.8% 13.8% 14.3% 14.5% 17.6% 17.0% Other Assembly 2,954 9,557 12,511 903 4,473 5,376 -69.4% -53.2% -57.0% 6.9% 7.2% 7.1% 1.8% 2.4% 2.3% Bonding 2,125 8,770 10,895 644 3,229 3,873 -69.7% -63.2% -64.5% 5.0% 6.6% 6.2% 1.3% 1.8% 1.7% Soldering 244 283 527 2 2 -9.9.2% -100.0% -99.6% 0.6% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.2% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3% 0.3%<	(million yen)	(10,148)	(10,455)	(20,603)	(13,215)	(15,897)	(29,113)	(30.2%)	(52.1%)	(41.3%)	(4.6%)	(2.1%)	(2.9%)	(5.4%)		(3.3%)
Other Assembly 2,954 9,557 12,511 903 4,473 5,376 -69.4% -57.0% 6.9% 7.2% 7.1% 1.8% 2.4% 2.3% Bonding 2,125 8,770 10,895 644 3,229 3,873 -69.7% -64.5% 5.0% 6.6% 6.2% 1.3% 1.8% 1.7% Soldering 244 283 527 2 2 -99.2% -100.0% -99.6% 0.6% 0.2% 0.3% 0.0%	Surface Mount Technology	1,263	8,397	9,660	1,660	12,418	14,078	31.4%		45.7%		6.3%		3.4%	6.7%	6.0%
Bonding Soldering 2,125 8,770 10,895 644 3,229 3,873 -69.7% -63.2% -64.5% 5.0% 6.6% 6.2% 1.3% 1.8% 1.7% Soldering 244 283 527 2 2 -99.2% -100.0% -99.6% 0.6% 0.2% 0.3% 0.0% <		6,747	18,401	25,148	7,153	32,415	39,567	6.0%		57.3%	15.8%	13.8%	14.3%	14.5%	17.6%	17.0%
Soldering 244 283 527 2 2 -99.2% -100.0% -99.6% 0.6% 0.2% 0.3% 0.0% 0.0% Sealing/glueing 91 232 323 87 725 812 -4.4% 212.5% 151.4% 0.2% 0.2% 0.2% 0.2% 0.2% 0.4% 0.3% Screwing 23 6 29 7 17 24 -69.6% 183.3% -17.2% 0.1% 0.0% <t< td=""><td>Other Assembly</td><td>2,954</td><td>9,557</td><td>12,511</td><td>903</td><td>4,473</td><td>5,376</td><td></td><td></td><td>-57.0%</td><td>6.9%</td><td>7.2%</td><td>7.1%</td><td>1.8%</td><td>2.4%</td><td>2.3%</td></t<>	Other Assembly	2,954	9,557	12,511	903	4,473	5,376			-57.0%	6.9%	7.2%	7.1%	1.8%	2.4%	2.3%
Sealing/glueing Screwing 91 232 323 87 725 812 -4.4% 212.5% 151.4% 0.2% 0.2% 0.2% 0.2% 0.2% 0.0%	Bonding	2,125	· · ·		644	3,229	3,873			-64.5%					1.8%	
Screwing Others 23 6 29 7 17 24 -69.6% 183.3% -17.2% 0.1% 0.0%	Soldering	244	283	-	2		2	-99.2%	-100.0%	-99.6%	0.6%	0.2%	0.3%	0.0%		0.0%
Others 471 266 737 163 502 665 -65.3% 88.7% -9.7% 1.1% 0.2% 0.4% 0.3% 0.3% 0.3% Assembly Units 9,701 27,958 37,659 8,056 36,888 44,944 -17.0% 31.9% 19.3% 22.8% 21.0% 21.4% 16.4% 20.0% 19.3% (million yen) (33,914) (68,254) (102,168) (26,207) (64,232) (90,439) (-22.7%) (-5.9%) (-11.5%) (15.4%) (13.8%) (14.3%) (10.6%) (9.9%) (10.1%) Palletizing/depalletizing 1,577 2,428 4,005 1,747 2,026 3,772 10.8% -16.6% -5.8% 3.7% 1.8% 2.3% 3.6% 1.1% 1.6% Material handling 6,900 34,362 41,262 8,109 50,578 58,687 17.5% 47.2% 42.2% 16.2% 23.8% 2.6% 2.6% 2.6% 2.6% 2.6% <	Sealing/glueing	91	232		87	725	812	-4.4%	212.5%	151.4%	0.2%	0.2%	0.2%	0.2%	0.4%	0.3%
Assembly Units 9,701 27,958 37,659 8,056 36,888 44,944 -17.0% 31.9% 19.3% 22.8% 21.0% 21.4% 16.4% 20.0% 19.3% (million yen) (33,914) (68,254) (102,168) (26,207) (64,232) (90,439) (-22.7%) (-11.5%) (11.38%) (14.3%) (10.6%) (9.9%) (10.1%) Palletizing/depalletizing 1,577 2,428 4,005 1,747 2,026 3,772 10.8% -16.6% -5.8% 3.7% 1.8% 2.3% 3.6% 1.1% 1.6% Material handling 6,900 34,362 41,262 8,109 50,578 58,687 17.5% 47.2% 42.2% 16.2% 23.5% 16.5% 27.5% 25.1% FPD 1,255 4,335 5,590 1,295 4,857 6,152 3.2% 12.0% 10.1% 2.9% 3.3% 3.2% 2.6% 2.6% 2.6% 2.6% 2.6% 2.6% 2.6%	Screwing	23	6		7	17	24	-69.6%	183.3%	-17.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
(million yen) (33,914) (68,254) (102,168) (26,207) (64,232) (90,439) (-22.7%) (-11.5%) (13.8%) (14.3%) (10.6%) (9.9%) (10.1%) Palletizing/depalletizing 1,577 2,428 4,005 1,747 2,026 3,772 10.8% -16.6% -5.8% 3.7% 1.8% 2.3% 3.6% 1.1% 1.6% Material handling 6,900 34,362 41,262 8,109 50,578 58,687 17.5% 47.2% 42.2% 16.2% 25.8% 23.5% 16.5% 27.5% 25.1% FPD 1,255 4,335 5,590 1,295 4,857 6,152 3.2% 10.1% 2.9% 3.3% 3.2% 2.6%			266	737	163	502	665	-65.3%	88.7%	-9.7%	1.1%	0.2%	0.4%	0.3%	0.3%	0.3%
Palletizing/depalletizing 1,577 2,428 4,005 1,747 2,026 3,772 10.8% -16.6% -5.8% 3.7% 1.8% 2.3% 3.6% 1.1% 1.6% Material handling 6,900 34,362 41,262 8,109 50,578 58,687 17.5% 47.2% 42.2% 16.6% 25.8% 23.5% 16.5% 27.5% 25.1% FPD 1,255 4,335 5,590 1,295 4,857 6,152 3.2% 12.0% 10.1% 2.9% 3.3% 3.2% 2.6% 2	Assembly Units	9,701	27,958	37,659	8,056	36,888	44,944	-17.0%	31.9%	19.3%	22.8%	21.0%	21.4%	16.4%	20.0%	
Material handling 6,900 34,362 41,262 8,109 50,578 58,687 17.5% 47.2% 42.2% 16.2% 23.5% 16.5% 27.5% 25.1% FPD 1,255 4,335 5,590 1,295 4,857 6,152 3.2% 12.0% 10.1% 2.9% 3.3% 3.2% 2.6% <td>(, , , ,</td> <td>(33,914)</td> <td>(68,254)</td> <td>(102,168)</td> <td>(26,207)</td> <td>(64,232)</td> <td>(90,439)</td> <td>(-22.7%)</td> <td></td> <td>(-11.5%)</td> <td></td> <td>(13.8%)</td> <td>(14.3%)</td> <td>(10.6%)</td> <td></td> <td>(10.1%)</td>	(, , , ,	(33,914)	(68,254)	(102,168)	(26,207)	(64,232)	(90,439)	(-22.7%)		(-11.5%)		(13.8%)	(14.3%)	(10.6%)		(10.1%)
FPD 1,255 4,335 5,590 1,295 4,857 6,152 3.2% 12.0% 10.1% 2.9% 3.3% 3.2% 2.6%	Palletizing/depalletizing	,	2,428	,	,	,	3,772									
Semiconductor Others 4,632 9,822 14,454 9,622 14,874 24,496 107.7% 51.4% 69.5% 10.9% 7.4% 8.2% 19.6% 8.1% 10.5% Others 2 10 12 6 4 10 200.0% -60.0% -16.7% 0.0% <th< td=""><td>Material handling</td><td></td><td>,</td><td></td><td>.,</td><td></td><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Material handling		,		.,		,									
Others 2 10 12 6 4 10 200.0% -60.0% -16.7% 0.0% </td <td>FPD</td> <td>1,255</td> <td>4,335</td> <td>5,590</td> <td></td> <td>4,857</td> <td>6,152</td> <td>3.2%</td> <td></td> <td>10.1%</td> <td></td> <td></td> <td></td> <td>2.6%</td> <td></td> <td>2.6%</td>	FPD	1,255	4,335	5,590		4,857	6,152	3.2%		10.1%				2.6%		2.6%
Cleanroom Units 5,889 14,167 20,056 10,923 19,735 30,658 85.5% 39.3% 52.9% 13.8% 10.7% 11.4% 22.2% 10.7% 13.1%	Semiconductor	'	· · ·	· ·		14,874	24,496	107.7%								
	Others		10	12	6	4	10	200.0%	-60.0%	-16.7%	.	0.0%	0.0%	0.0%	0.0%	0.0%
(million yen) (36,723) (73,013) (109,736) (53,260) (112,606) (165,866) (45.0%) (54.2%) (51.2%) (16.6%) (14.7%) (15.3%) (21.6%) (17.3%) (18.5%)	Cleanroom Units	5,889	14,167	20,056	10,923	19,735	30,658	85.5%	39.3%	52.9%	13.8%	10.7%	11.4%	22.2%	10.7%	13.1%
	(million yen)	(36,723)	(73,013)	(109,736)	(53,260)	(112,606)	(165,866)	(45.0%)	(54.2%)	(51.2%)	(16.6%)	(14.7%)	(15.3%)	(21.6%)	(17.3%)	(18.5%)
Other applications 2,885 2,959 5,844 3,644 3,437 7,081 26.3% 16.2% 21.2% 6.8% 2.2% 3.3% 7.4% 1.9% 3.0%	Other applications	2,885	í í	5,844	3,644	3,437	7,081	26.3%					3.3%	7.4%	1.9%	3.0%
Total Units 42,596 133,012 175,608 49,171 184,215 233,386 15.4% 38.5% 32.9% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%	Total Units	42,596	133,012	175,608	49,171	184,215	233,386	15.4%	38.5%	32.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen) (220,618) (495,404) (716,022) (246,222) (649,381) (895,603) (11.6%) (31.1%) (25.1%) (100.0%) (100.0%) (100.0%) (100.0%) (100.0%) (100.0%) (100.0%)		(220,618)	(495,404)	(716,022)	(246,222)	(649,381)	(895,603)	(11.6%)	(31.1%)	(25.1%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Note) Data includes dedicated type (Surface Mount Technology / Bonding). Data is collected in unit of 10,000 yen. However, the results are shown in unit of million yen by rounding the figures of 100,000 yen.

2017 Results Shipments of Manipulators and Robots by Industries [JARA Members and Non-members]

				nber of units, ()			
Industries	2016	2017	Change	Percentage distribution			
			from 2016	2016	2017		
Metal products	1,881	2,571	36.7%	4.4%	5.2%		
Construction and mining machinery	126	79	-37.3%	0.3%	0.2%		
Metalworking machinery	496	613	23.6%	1.2%	1.2%		
Other machinery and equipment	2,665	3,203	20.2%	6.3%	6.5%		
Machinery and equipment Ur	its 3,287	3,895	18.5%	7.7%	7.9%		
(million ye	n) (17,936)	(18,582)	(3.6%)	(8.1%)	(7.5%)		
Electronic computers	88	29	-67.0%	0.2%	0.1%		
Consumer electrical machinery	1,916	1,759	-8.2%	4.5%	3.6%		
Industrial electrical machinery	954	917	-3.9%	2.2%	1.9%		
Communication equipment	1,104	1,964	77.9%	2.6%	4.0%		
Video and audio equipment	21	6	-71.4%	0.0%	0.0%		
Electronic components/devices/circuits	6,605	10,745	62.7%	15.5%	21.9%		
Other electrical machinery	3,216	3,287	2.2%	7.6%	6.7%		
Electrical machinery Ur	its 13,904	18,707	34.5%	32.6%	38.0%		
(million ye	n) (76,847)	(97,710)	(27.1%)	(34.8%)	(39.7%)		
Precision instruments	477	523	9.6%	1.1%	1.1%		
Motor vehicles	5,977	5,275	-11.7%	14.0%	10.7%		
Auto parts	8,521	9,375	10.0%	20.0%	19.1%		
Motor vehicles and auto parts Ur	its 14,498	14,650	1.0%	34.0%	29.8%		
(million ye	n) (65,078)	(65,376)	(0.5%)	(29.5%)	(26.6%)		
Other transport equpment	305	236	-22.6%	0.7%	0.5%		
Food products, beverages, and tobacco products	839	865	3.1%	2.0%	1.8%		
Chemical products	411	319	-22.4%	1.0%	0.6%		
Plastic products	1,247	1,264	1.4%	2.9%	2.6%		
Other industries	5,533	5,854	5.8%	13.0%	11.9%		
Non-manufacturing industry	214	287	34.1%	0.5%	0.6%		
	its 42,596	49,171	15.4%	100.0%	100.0%		
• • • •				24.3%	21.1%		
(million ye	n) (220,618)	(246,222)	(11.6%)	(100.0%)	(100.0%)		
(, , , , , , , , ,	· · · ·	,,	(30.8%)	(27.5%)		
Export Ur	its 133,012	184,215	38.5%	75.7%	78.9%		
(million ye		(649,381)	(31.1%)	(69.2%)	(72.5%)		
	its 175,608	233,386	32.9%	100.0%	100.0%		
(million ye	-	(895,603)	(25.1%)	(100.0%)	(100.0%)		
Note)	(10,022)	(035,005)	(23.170)	(100.070)	(100.070)		

Note)

Data includes dedicated type (Surface Mount Technology / Bonding).

Data is collected in unit of 10,000 yen. However, the results are shown in unit of million yen by rounding the figures of 100,000 yen.