

Second Quarter (April - June) 2009 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

| Production | April - June 2008 | April - June 2009 | Change from 2008 |
|------------|-------------------|-------------------|------------------|
| | 146,142 | 43,414 | -70.3% |

| Shipments | April - June 2008 | | | April - June 2009 | | | Change from 2008 | | | April - June 2008 (percentage distribution) | | | April - June 2009 (percentage distribution) | | |
|---------------------------|--------------------|---------|----------|--------------------|---------|---------|--------------------|---------|--------|--|---------|--------|--|---------|--------|
| | Domestic shipments | Exports | Total | Domestic shipments | Exports | Total | Domestic shipments | Exports | Total | Domestic shipments | Exports | Total | Domestic shipments | Exports | Total |
| Application area | | | | | | | | | | | | | | | |
| Plastic moulding | 2,943 | 6,067 | 9,010 | 1,623 | 4,111 | 5,734 | -44.9% | -32.2% | -36.4% | 6.3% | 5.6% | 5.8% | 8.3% | 14.0% | 11.7% |
| Arc welding | (6,740) | (6,571) | (13,311) | (2,062) | (2,072) | (4,134) | -69.4% | -68.5% | -68.9% | 14.4% | 6.1% | 8.6% | 10.5% | 7.0% | 8.4% |
| Spot welding | (3,955) | (7,144) | (11,100) | (1,749) | (2,411) | (4,160) | -55.8% | -66.3% | -62.5% | 8.5% | 6.6% | 7.2% | 8.9% | 8.2% | 8.5% |
| Gas welding | | | | | | | | | | | | | | | |
| Laser welding | (4) | (7) | (11) | | | | | | | | | | | | |
| Others | (7) | | (7) | (6) | (4) | (10) | | | | | | | | | |
| Welding | 10,706 | 13,722 | 24,428 | 3,816 | 4,487 | 8,304 | -64.4% | -67.3% | -66.0% | 22.9% | 12.7% | 15.8% | 19.5% | 15.3% | 16.9% |
| Loading/unloading | (1,591) | (1,332) | (2,924) | (228) | (234) | (462) | | | | | | | | | |
| Mechanical cutting | | | | | | | | | | | | | | | |
| Grinding/deburring | (189) | (8) | (197) | (66) | | (66) | | | | | | | | | |
| Others | (32) | (7) | (39) | (25) | | (25) | | | | | | | | | |
| Machining | 1,812 | 1,347 | 3,159 | 319 | 234 | 553 | -82.4% | -82.6% | -82.5% | 3.9% | 1.2% | 2.0% | 1.6% | 0.8% | 1.1% |
| General Assembly | 4,170 | 2,126 | 6,297 | 1,156 | 744 | 1,899 | -72.3% | -65.0% | -69.8% | 8.9% | 2.0% | 4.1% | 5.9% | 2.5% | 3.9% |
| Surface Mount Technology | 13,617 | 62,950 | 76,567 | 2,921 | 10,398 | 13,319 | -78.5% | -83.5% | -82.6% | 29.1% | 58.1% | 49.4% | 14.9% | 35.4% | 27.2% |
| Other Assembly | 65 | 147 | 212 | 77 | 37 | 113 | 17.7% | -75.2% | -46.8% | 0.1% | 0.1% | 0.1% | 0.4% | 0.1% | 0.2% |
| (Bonding) | | | | | | | | | | | | | | | |
| (Soldering) | | | | | | | | | | | | | | | |
| (Sealing/glueing) | (57) | (141) | (198) | (74) | (37) | (110) | | | | | | | | | |
| (Screwing) | | | | | | | | | | | | | | | |
| (Others) | (8) | (6) | (14) | (3) | | (3) | | | | | | | | | |
| Assembly | 17,852 | 65,224 | 83,076 | 4,153 | 11,178 | 15,331 | -76.7% | -82.9% | -81.5% | 38.2% | 60.2% | 53.6% | 21.2% | 38.0% | 31.3% |
| Material handling | 4,362 | 6,641 | 11,004 | 1,375 | 2,751 | 4,126 | -68.5% | -58.6% | -62.5% | 9.3% | 6.1% | 7.1% | 7.0% | 9.4% | 8.4% |
| Painting | 1,565 | 1,461 | 3,026 | 3,616 | 147 | 3,763 | 131.0% | -89.9% | 24.3% | 3.3% | 1.3% | 2.0% | 18.4% | 0.5% | 7.7% |
| (FPD) | (1,911) | (8,986) | (10,897) | (2,588) | (5,245) | (7,833) | 35.4% | -41.6% | -28.1% | 4.1% | 8.3% | 7.0% | 13.2% | 17.8% | 16.0% |
| (Semiconductor) | (2,390) | (1,390) | (3,780) | (423) | (174) | (597) | -82.3% | -87.5% | -84.2% | 5.1% | 1.3% | 2.4% | 2.2% | 0.6% | 1.2% |
| (Others) | | | | | (3) | (3) | | | | | | | | | |
| Cleanroom | 4,301 | 10,376 | 14,676 | 3,012 | 5,421 | 8,433 | -30.0% | -47.8% | -42.5% | 9.2% | 9.6% | 9.5% | 15.4% | 18.4% | 17.2% |
| Other applications | 3,204 | 3,471 | 6,675 | 1,704 | 1,082 | 2,786 | -46.8% | -68.8% | -58.3% | 6.9% | 3.2% | 4.3% | 8.7% | 3.7% | 5.7% |
| Total | 46,747 | 108,308 | 155,055 | 19,618 | 29,411 | 49,029 | -58.0% | -72.8% | -68.4% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

Note)

These statistics include dedicated type (Surface Mount Technology / Bonding).

These statistics are 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.

Second Quarter (April - June) 2009 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

| Industrial branches | 2008 | 2009 | Change from 2008 | Percentage distribution | |
|---|----------------|---------------|---------------------|-------------------------|-----------------|
| | million yen | million yen | | 2008 | 2009 |
| Metal products | 1,565 | 500 | -68.1% | 3.3% | 2.5% |
| Construction Machinery | (488) | (127) | -73.9% | 1.0% | 0.6% |
| Metalworking machinery | (281) | (86) | -69.5% | 0.6% | 0.4% |
| Other machinery and equipment | (1,186) | (263) | -77.8% | 2.5% | 1.3% |
| Machinery and equipment | 1,955 | 476 | -75.6% | 4.2% | 2.4% |
| Computers | (152) | (69) | -54.5% | 0.3% | 0.4% |
| Consumer electrical machinery | (251) | (129) | -48.6% | 0.5% | 0.7% |
| Industrial electrical machinery | (2,582) | (851) | -67.0% | 5.5% | 4.3% |
| Info-communications equipment | (6,670) | (2,105) | -68.4% | 14.3% | 10.7% |
| VTR | (125) | (17) | -86.4% | 0.3% | 0.1% |
| Electronic components/devices | (2,946) | (1,706) | -42.1% | 6.3% | 8.7% |
| Other electrical machinery | (3,537) | (1,080) | -69.5% | 7.6% | 5.5% |
| Electrical machinery | 16,263 | 5,957 | -63.4% | 34.8% | 30.4% |
| Precision and optical instruments | 857 | 132 | -84.6% | 1.8% | 0.7% |
| Motor vehicles | (6,442) | (5,503) | -14.6% | 13.8% | 28.1% |
| Auto parts | (11,956) | (2,996) | -74.9% | 25.6% | 15.3% |
| Motor vehicles and auto parts | 18,398 | 8,499 | -53.8% | 39.4% | 43.3% |
| Food products, beverages, and tobacco products | 604 | 542 | -10.3% | 1.3% | 2.8% |
| Plastic products | 2,833 | 1,483 | -47.7% | 6.1% | 7.6% |
| EMS companies (Subconstructors) | 84 | 74 | -11.9% | 0.2% | 0.4% |
| Non-manufacturing | 400 | 193 | -51.8% | 0.9% | 1.0% |
| Other industries | 3,789 | 1,762 | -53.5% | 8.1% | 9.0% |
| Total domestic shipments | 46,747 | 19,618 | -58.0% | 100.0% | 100.0% |
| | | | | (30.1%) | (40.0%) |
| Export | 108,308 | 29,411 | -72.8% | (69.9%) | (60.0%) |
| Grand total | 155,055 | 49,029 | -68.4% | (100.0%) | (100.0%) |

Note) These statistics include dedicated type (Surface Mount Technology / Bonding).
These statistics are 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.