

**Second Quarter (April - June) 2006 Results**  
**Production and Shipments of Manipulators and Robots by Application Areas (based on Value)**  
**(JARA Member Companies)**

(Unit: million yen)

Production	April - June 2005	April - June 2006	Change from 2005
		126,796	136,661

Shipments	April - June 2005			April - June 2006			Change from 2005			April - June 2005 (percentage distribution)			April - June 2006 (percentage distribution)		
	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
<b>Application area</b>															
<b>Plastic moulding</b>	<b>3,190</b>	<b>2,827</b>	<b>6,017</b>	<b>2,970</b>	<b>2,892</b>	<b>5,862</b>	<b>-6.9%</b>	<b>2.3%</b>	<b>-2.6%</b>	<b>6.8%</b>	<b>3.6%</b>	<b>4.8%</b>	<b>6.7%</b>	<b>3.2%</b>	<b>4.4%</b>
Arc welding	(6,177)	(5,849)	(12,026)	(6,663)	(4,926)	(11,590)	<b>7.9%</b>	<b>-15.8%</b>	<b>-3.6%</b>	<b>13.2%</b>	<b>7.4%</b>	<b>9.6%</b>	<b>15.1%</b>	<b>5.5%</b>	<b>8.6%</b>
Spot welding	(5,844)	(7,631)	(13,475)	(4,807)	(5,881)	(10,688)	<b>-17.8%</b>	<b>-22.9%</b>	<b>-20.7%</b>	<b>12.5%</b>	<b>9.7%</b>	<b>10.8%</b>	<b>10.9%</b>	<b>6.5%</b>	<b>8.0%</b>
Gas welding		(3)	(3)												
Laser welding	(19)		(19)	(1)	(6)	(7)									
Others	(18)	(49)	(67)	(15)	(3)	(18)									
<b>Welding</b>	<b>12,058</b>	<b>13,532</b>	<b>25,591</b>	<b>11,486</b>	<b>10,816</b>	<b>22,303</b>	<b>-4.7%</b>	<b>-20.1%</b>	<b>-12.8%</b>	<b>25.8%</b>	<b>17.2%</b>	<b>20.4%</b>	<b>26.0%</b>	<b>12.0%</b>	<b>16.6%</b>
Loading/unloading	(1,260)	(959)	(2,219)	(1,456)	(633)	(2,089)									
Mechanical cutting	(15)		(15)												
Grinding/deburring	(175)	(19)	(194)	(194)	(11)	(205)									
Others	(9)		(9)	(22)		(22)									
<b>Machining</b>	<b>1,459</b>	<b>978</b>	<b>2,437</b>	<b>1,672</b>	<b>644</b>	<b>2,316</b>	<b>14.6%</b>	<b>-34.2%</b>	<b>-5.0%</b>	<b>3.1%</b>	<b>1.2%</b>	<b>1.9%</b>	<b>3.8%</b>	<b>0.7%</b>	<b>1.7%</b>
General Assembly	3,754	1,397	5,151	3,943	1,975	5,918	5.0%	41.4%	14.9%	8.0%	1.8%	4.1%	8.9%	2.2%	4.4%
Surface Mount Technology	12,520	40,983	53,503	10,879	53,568	64,447	-13.1%	30.7%	20.5%	26.7%	52.2%	42.7%	24.6%	59.4%	47.9%
Other Assembly	214	173	387	156	167	324	-27.0%	-3.3%	-16.4%	0.5%	0.2%	0.3%	0.4%	0.2%	0.2%
(Bonding)															
(Soldering)	(19)		(19)												
(Sealing/glueing)	(190)	(173)	(363)	(143)	(167)	(311)									
(Screwing)	(5)		(5)	(13)		(13)									
(Others)															
<b>Assembly</b>	<b>16,489</b>	<b>42,552</b>	<b>59,041</b>	<b>14,979</b>	<b>55,710</b>	<b>70,688</b>	<b>-9.2%</b>	<b>30.9%</b>	<b>19.7%</b>	<b>35.2%</b>	<b>54.2%</b>	<b>47.1%</b>	<b>33.9%</b>	<b>61.8%</b>	<b>52.6%</b>
<b>Material handling</b>	<b>3,688</b>	<b>5,033</b>	<b>8,721</b>	<b>3,375</b>	<b>4,334</b>	<b>7,709</b>	<b>-8.5%</b>	<b>-13.9%</b>	<b>-11.6%</b>	<b>7.9%</b>	<b>6.4%</b>	<b>7.0%</b>	<b>7.6%</b>	<b>4.8%</b>	<b>5.7%</b>
<b>Painting</b>	<b>1,974</b>	<b>2,170</b>	<b>4,144</b>	<b>1,060</b>	<b>3,211</b>	<b>4,270</b>	<b>-46.3%</b>	<b>48.0%</b>	<b>3.1%</b>	<b>4.2%</b>	<b>2.8%</b>	<b>3.3%</b>	<b>2.4%</b>	<b>3.6%</b>	<b>3.2%</b>
<b>Clean room</b>	<b>4,654</b>	<b>9,261</b>	<b>13,915</b>	<b>5,456</b>	<b>9,460</b>	<b>14,915</b>	<b>17.2%</b>	<b>2.1%</b>	<b>7.2%</b>	<b>9.9%</b>	<b>11.8%</b>	<b>11.1%</b>	<b>12.3%</b>	<b>10.5%</b>	<b>11.1%</b>
(FPD)	(3,653)	(8,566)	(12,219)	(4,066)	(7,870)	(11,936)	11.3%	-8.1%	-2.3%	7.8%	10.9%	9.7%	9.2%	8.7%	8.9%
(Semiconductor)	(999)	(695)	(1,694)	(1,390)	(1,587)	(2,977)	39.1%	128.3%	75.7%	2.1%	0.9%	1.4%	3.1%	1.8%	2.2%
(Others)	(2)		(2)		(3)	(3)									
<b>Other applications</b>	<b>3,312</b>	<b>2,173</b>	<b>5,485</b>	<b>3,210</b>	<b>3,134</b>	<b>6,343</b>	<b>-3.1%</b>	<b>44.2%</b>	<b>15.6%</b>	<b>7.1%</b>	<b>2.8%</b>	<b>4.4%</b>	<b>7.3%</b>	<b>3.5%</b>	<b>4.7%</b>
<b>Total</b>	<b>46,825</b>	<b>78,527</b>	<b>125,352</b>	<b>44,206</b>	<b>90,200</b>	<b>134,406</b>	<b>-5.6%</b>	<b>14.9%</b>	<b>7.2%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

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) 2006 Results**  
**Shipments of Manipulators and Robots by Industrial Branches (based on Value)**  
**(JARA Member Companies)**

Industrial branches	2005	2006	Change from 2005	Percentage distribution	
	million yen	million yen		2005	2006
<b>Metal products</b>	<b>1,076</b>	<b>1,493</b>	<b>38.7%</b>	<b>2.3%</b>	<b>3.4%</b>
Construction Machinery	(366)	(546)	49.4%	0.8%	1.2%
Metalworking machinery	(149)	(272)	82.0%	0.3%	0.6%
Other machinery and equipment	(893)	(1,332)	49.1%	1.9%	3.0%
<b>Machinery and equipment</b>	<b>1,408</b>	<b>2,150</b>	<b>52.7%</b>	<b>3.0%</b>	<b>4.9%</b>
Computers	(376)	(602)	60.1%	0.8%	1.4%
Consumer electrical machinery	(163)	(242)	48.5%	0.3%	0.5%
Industrial electrical machinery	(2,813)	(1,889)	-32.9%	6.0%	4.3%
Info-communications equipment	(7,192)	(7,193)	0.0%	15.4%	16.3%
VTR	(56)	(94)	66.1%	0.1%	0.2%
Electronic components/devices	(2,578)	(1,907)	-26.0%	5.5%	4.3%
Other electrical machinery	(4,146)	(5,262)	26.9%	8.9%	11.9%
<b>Electrical machinery</b>	<b>17,325</b>	<b>17,188</b>	<b>-0.8%</b>	<b>37.0%</b>	<b>38.9%</b>
<b>Precision and optical instruments</b>	<b>431</b>	<b>679</b>	<b>57.4%</b>	<b>0.9%</b>	<b>1.5%</b>
Motor vehicles	(8,842)	(5,547)	-37.3%	18.9%	12.5%
Auto parts	(10,331)	(10,366)	0.3%	22.1%	23.4%
<b>Motor vehicles and auto parts</b>	<b>19,174</b>	<b>15,913</b>	<b>-17.0%</b>	<b>40.9%</b>	<b>36.0%</b>
<b>Food products, beverages, and tobacco products</b>	<b>487</b>	<b>422</b>	<b>-13.3%</b>	<b>1.0%</b>	<b>1.0%</b>
<b>Plastic products</b>	<b>2,842</b>	<b>2,877</b>	<b>1.2%</b>	<b>6.1%</b>	<b>6.5%</b>
<b>EMS companies (Subconstructors)</b>	<b>59</b>	<b>40</b>	<b>-31.7%</b>	<b>0.1%</b>	<b>0.1%</b>
<b>Non-manufacturing</b>	<b>122</b>	<b>332</b>	<b>171.5%</b>	<b>0.3%</b>	<b>0.8%</b>
<b>Other industries</b>	<b>3,900</b>	<b>3,113</b>	<b>-20.2%</b>	<b>8.3%</b>	<b>7.0%</b>
<b>Total domestic shipments</b>	<b>46,825</b>	<b>44,206</b>	<b>-5.6%</b>	<b>100.0%</b>	<b>100.0%</b>
				<b>(37.4%)</b>	<b>(32.9%)</b>
<b>Export</b>	<b>78,527</b>	<b>90,200</b>	<b>14.9%</b>	<b>(62.6%)</b>	<b>(67.1%)</b>
<b>Grand total</b>	<b>125,352</b>	<b>134,406</b>	<b>7.2%</b>	<b>(100.0%)</b>	<b>(100.0%)</b>

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.