Second Quarter (April - June) 2005 Results Production and Shipments of Manipulators and Robots by Application Areas (based on Value) (JARA Member Companies)

(Unit: million yen)

Production	April - June 2004	April - June 2005	Change from 2004			
	116,002	124,703	7.5%			

Shipments	April - June 2004			April - June 2005			Change from 2004			April - June 2004 (percentage distribution)			April - June 2005 (percentage distribution)		
Application area	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
Plastic moulding	2,889	3,144	6,033	3,190	2,827	6,017	10.4%	-10.1%	-0.3%	7.4%	4.4%	5.5%	6.8%	3.7%	4.9%
Arc welding	3,895	4,529	8,424	6,177	5,849	12,026	58.6%	29.1%	42.8%	9.9%	6.4%	7.7%	13.2%	7.6%	9.7%
Spot welding	5,887	5,731	11,618	5,844	7,631	13,475	-0.7%	33.2%	16.0%	15.0%	8.1%	10.6%	12.5%	10.0%	10.9%
Gas welding					3	3									
Laser welding	15	6	21	19		19									
Others	6	6	12	18	49	67									
Welding	9,803	10,272	20,075	12,058	13,532	25,591	23.0%	31.7%	27.5%	25.0%	14.5%	18.2%	25.8%	17.7%	20.7%
Loading/unloading	1,122	802	1,924	1,260	959	2,219									
Mechanical cutting				15		15									
Grinding/deburring	89	5	94	175	19	194									
Others	34	3	37	9		9									
Machining	1,246	810	2,055	1,459	978	2,437	17.1%	20.8%	18.6%	3.2%	1.1%	1.9%	3.1%	1.3%	2.0%
General Assembly	2,666	1,313	3,979	3,741	1,480	5,221	40.3%	12.7%	31.2%	6.8%	1.9%	3.6%	8.0%	1.9%	4.2%
Surface Mount Technology	11,490	41,288	52,779	11,457	38,162	49,619	-0.3%	-7.6%	-6.0%	29.3%	58.2%	47.9%	24.5%	49.8%	40.2%
Other Assembly	475	1,713	2,188	271	194	465	-43.0%	-88.7%	-78.7%	1.2%	2.4%	2.0%	0.6%	0.3%	0.4%
(Bonding)	(210)	(1,666)	(1,876)												
(Soldering)	(17)	(17)	(34)	(76)	(21)	(97)									
(Sealing/glueing)	(232)	(30)	(262)	(190)	(173)	(363)									
(Screwing)	(5)		(5)	(5)		(5)									
(Others)	(11)		(11)												
Assembly	14,632	44,314	58,945	15,470	39,836	55,305	5.7%	-10.1%	-6.2%	37.4%	62.5%	53.5%	33.1%	52.0%	44.8%
Material handling	2,567	3,023	5,589	3,688	5,033	8,721	43.7%	66.5%	56.0%	6.6%	4.3%	5.1%	7.9%	6.6%	7.1%
Painting	1,260	957	2,216	1,974	2,170	4,144	56.7%	126.8%	87.0%	3.2%	1.3%	2.0%	4.2%	2.8%	3.4%
Clean room	3,251	6,291	9,542	4,654	9,178	13,832	43.2%	45.9%	45.0%	8.3%	8.9%	8.7%	9.9%	12.0%	11.2%
(FPD)	(1,730)	(5,160)	(6,890)	(3,653)	(8,483)	(12,136)	111.2%	64.4%	76.1%	4.4%	7.3%	6.3%	7.8%	11.1%	9.8%
(Semiconductor)	(1,498)	(1,131)	(2,629)	(999)	(695)	(1,694)	-33.3%	-38.5%	-35.5%	3.8%	1.6%	2.4%	2.1%	0.9%	1.4%
(Others)	(23)		(23)	(2)		(2)									
Other applications	3,512	2,109	5,621	4,311	3,045	7,356		44.4%	30.9%	9.0%	3.0%	5.1%	9.2%	4.0%	6.0%
Total	39,159	70,918	110,076	46,805	76,599	123,404	19.5%	8.0%	12.1%	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) 2005 Results Shipments of Manipulators and Robots by Industrial Branches (based on Value) (JARA Member Companies)

Industrial branches	2004	2005	Change	Percentage distribution		
industrial branches			from 2004	2004	2005	
Metal products	1,058	1,076	1.7%	2.7%	2.3%	
Construction Machinery	521	366	-29.8%	1.3%	0.8%	
Metalworking machinery	70	149	113.3%	0.2%	0.3%	
Other machinery and equipment	732	893	22.1%	1.9%	1.9%	
Machinery and equipment	1,323	1,408		3.4%	3.0%	
Computers	1,869	376		4.8%	0.8%	
Consumer electrical machinery	283	163		0.7%	0.3%	
Industrial electrical machinery	4,183	2,813	-32.8%	10.7%	6.0%	
Info-communications equipment	2,162	7,192	232.7%	5.5%	15.4%	
VTR	235	56	-76.0%	0.6%	0.1%	
Electronic components/devices	3,165	2,578		8.1%	5.5%	
Other electrical machinery	3,680	4,146		9.4%	8.9%	
Electrical machinery	15,577	17,325	11.2%	39.8%	37.0%	
Precision and optical instruments	408	411	0.8%	1.0%	0.9%	
Motor vehicles	6,716	8,842	31.7%	17.2%	18.9%	
Auto parts	7,718	•	33.9%	19.7%	22.1%	
Motor vehicles and auto parts	14,434	19,174		36.9%	41.0%	
Food products, beverages, and tobacco products		487	-5.9%	1.3%	1.0%	
Plastic products	2,761	2,842	2.9%	7.1%	6.1%	
EMS companies (Subconstructors)	101	59	-42.0%	-	0.1%	
Non-manufacturing	156	122	-21.5%	0.4%	0.3%	
Other industries	2,822	3,900	38.2%	7.2%	8.3%	
Total domestic shipments	39,159	46,805	19.5%	100.0%	100.0%	
				(35.6%)	(37.9%)	
Export	70,918	76,599	8.0%	(64.4%)	(62.1%)	
Grand total	110,076	123,404	12.1%	(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.