First Quarter (January - March) 2005 Results Production and Shipments of Manipulators and Robots by Application Areas (based on Value) (JARA Member Companies)

(Unit: million yen)

Production	January - March 2004	January - March 2005	Change from 2004		
	116,223	120,451	3.6%		

Shipments Jar		January - March 2004		January - March 2005		Change from 2004		January - March 2004 (percentage distribution)			January - March 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	3,084	4,456	7,540	2,538	2,076	4,614	-17.7%	-53.4%	-38.8%	6.7%	6.6%	6.6%	4.6%	2.8%	3.6%
Arc welding	4,784	4,896	9,680	6,015	5,035	11,050	25.7%	2.8%	14.2%	10.3%	7.3%	8.5%	10.9%	6.8%	8.6%
Spot welding	4,596	5,816	10,411	8,088	6,987	15,075	76.0%	20.1%	44.8%	9.9%	8.6%	9.2%	14.7%	9.5%	11.7%
Gas welding	3		3												
Laser welding	18	1	19	46		46									
Others	15	2	17	35	9	44									
Welding	9,416	10,715	20,130	14,185	12,031	26,216	50.7%	12.3%	30.2%	20.4%	15.9%	17.7%	25.7%	16.3%	20.3%
Loading/unloading	1,811	975	2,786	1,585	888	2,473									
Mechanical cutting	3		3	20		20									
Grinding/deburring	127	5	132	166	32	198									
Others	534	19	553	84		84									
Machining	2,475	999	3,474	1,854	920	2,774	-25.1%	-8.0%	-20.2%	5.4%	1.5%	3.1%	3.4%	1.2%	2.2%
General Assembly	2,699	1,001	3,701	3,177	1,785	4,962	17.7%	78.3%	34.1%	5.8%	1.5%	3.3%	5.8%	2.4%	3.8%
Surface Mount Technology	11,717	32,877	44,594	13,305	29,671	42,976	13.6%	-9.8%	-3.6%	25.3%	48.9%	39.3%	24.1%	40.2%	33.3%
Other Assembly	783	2,068	2,851	499	452	951	-36.3%	-78.1%	-66.6%	1.7%	3.1%	2.5%	0.9%	0.6%	0.7%
(Bonding)	(221)	(1,888)	(2,109)	(285)	(381)	(666)									
(Soldering)	(23)	(31)	(54)												
(Sealing/glueing)	(465)	(149)	(614)	(192)	(71)	(263)									
(Screwing)	(58)		(58)	(20)		(20)									
(Others)	(16)		(16)	(2)		(2)									
Assembly	15,199	35,946	51,145	16,981	31,908	48,889	11.7%	-11.2%	-4.4%	32.9%	53.4%	45.1%	30.8%	43.3%	37.9%
Material handling	2,985	2,825	5,810	4,597	4,569	9,166	54.0%	61.8%	57.8%	6.5%	4.2%	5.1%	8.3%	6.2%	7.1%
Painting	2,172	2,517	4,688	2,627	2,207	4,833	20.9%	-12.3%	3.1%	4.7%	3.7%	4.1%	4.8%	3.0%	3.7%
Clean room	6,548	7,708	14,256	7,144	17,039	24,183	9.1%	121.1%	69.6%	14.2%	11.5%	12.6%	12.9%	23.1%	18.8%
(FPD)	(4,902)	(5,977)	(10,879)	(6,181)	(15,649)	(21,830)	26.1%	161.8%	100.7%	10.6%	8.9%	9.6%	11.2%	21.2%	16.9%
(Semiconductor)	(1,600)	(1,723)	(3,323)	(960)	(1,390)	(2,350)	-40.0%	-19.3%	-29.3%	3.5%	2.6%	2.9%	1.7%	1.9%	1.8%
(Others)	(47)	(8)	(55)	(3)		(3)									
Other applications	4,379	2,092	6,471	5,263	3,009	8,272	20.2%	43.8%	27.8%	9.5%	3.1%	5.7%	9.5%	4.1%	6.4%
Total	46,257	67,257	113,514	55,188	73,759	128,947	19.3%	9.7%	13.6%	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.

First Quarter (January - March) 2005 Results Shipments of Manipulators and Robots by Industrial Branches (based on Value) (JARA Member Companies)

Industrial branches	2004 2005		Change	Percentage distribution		
ilidustriai branches	million yen	million yen	from 2004	2004	2005	
Metal products	1,310	1,223	-6.6%	2.8%	2.2%	
Construction Machinery	399	502	25.6%	0.9%	0.9%	
Metalworking machinery	109	292	168.1%	0.2%	0.5%	
Other machinery and equipment	901	1,459	62.0%	1.9%	2.6%	
Machinery and equipment	1,409	2,252	59.9%	3.0%	4.1%	
Computers	321	507	58.0%	0.7%	0.9%	
Consumer electrical machinery	291	156	-46.3%	0.6%	0.3%	
Industrial electrical machinery	3,804	2,586	-32.0%	8.2%	4.7%	
Info-communications equipment	2,149	7,533	250.6%	4.6%	13.7%	
VTR	1,202	67	-94.4%	2.6%	0.1%	
Electronic components/devices	5,519	6,344	15.0%	11.9%	11.5%	
Other electrical machinery	6,032	3,036	-49.7%	13.0%	5.5%	
Electrical machinery	19,318	20,229	4.7%	41.8%	36.7%	
Precision and optical instruments	473	711	50.2%	1.0%	1.3%	
Motor vehicles	6,600	11,816		14.3%	21.4%	
Auto parts	9,376	10,189		20.3%	18.5%	
Motor vehicles and auto parts	15,976	22,004	37.7%	34.5%	39.9%	
Food products, beverages, and tobacco products	724	1,020	40.9%	1.6%	1.8%	
Plastic products	2,864	2,468	-13.8%	6.2%	4.5%	
EMS companies (Subconstructors)	517	294	-43.2%	-	0.5%	
Non-manufacturing	533	725	36.1%	1.2%	1.3%	
Other industries	3,134	4,261	36.0%	6.8%	7.7%	
Total domestic shipments	46,257	55,188	19.3%	100.0%	100.0%	
		•		(40.8%)	(42.8%)	
Export	67,257	73,759	9.7%	(59.2%)	(57.2%)	
Grand total	113,514	128,947	13.6%	(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.