

January - March 2010 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	January - March 2009	January - March 2010	Change from 2009
	57,803	82,814	43.3%

Shipments Application area	January - March 2009			January - March 2010			Change from 2009			January - March 2009 (percentage distribution)			January - March 2010 (percentage distribution)		
	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
Plastic moulding	2,016	1,400	3,416	1,823	1,559	3,382	-9.6%	11.3%	-1.0%	6.4%	4.8%	5.6%	7.0%	2.5%	3.8%
Arc welding	(5,301)	(4,162)	(9,463)	(2,872)	(4,729)	(7,601)	-45.8%	13.6%	-19.7%	16.8%	14.3%	15.6%	11.0%	7.5%	8.5%
Spot welding	(2,952)	(3,453)	(6,405)	(1,954)	(4,784)	(6,738)	-33.8%	38.6%	5.2%	9.3%	11.8%	10.5%	7.5%	7.6%	7.6%
Gas welding															
Laser welding	(11)		(11)	(13)	(46)	(59)									
Others	(21)		(21)	(35)	(9)	(44)									
Welding	8,285	7,615	15,900	4,875	9,568	14,443	-41.2%	25.7%	-9.2%	26.2%	26.1%	26.2%	18.7%	15.2%	16.2%
Loading/unloading	(675)	(378)	(1,053)	(541)	(863)	(1,403)									
Mechanical cutting															
Grinding/deburring	(69)	(4)	(73)	(108)	(66)	(174)									
Others	(25)		(25)	(48)	(3)	(51)									
Machining	768	382	1,151	697	932	1,628	-9.3%	143.8%	41.5%	2.4%	1.3%	1.9%	2.7%	1.5%	1.8%
General Assembly	1,869	985	2,854	1,906	1,735	3,641	2.0%	76.2%	27.6%	5.9%	3.4%	4.7%	7.3%	2.8%	4.1%
Surface Mount Technology	3,891	6,702	10,592	4,497	34,829	39,326	15.6%	419.7%	271.3%	12.3%	23.0%	17.4%	17.2%	55.3%	44.1%
Other Assembly	86	81	167	135	110	245	55.9%	35.8%	46.2%	0.3%	0.3%	0.3%	0.5%	0.2%	0.3%
(Bonding)															
(Soldering)															
(Sealing/glueing)	(12)	(81)	(93)	(40)	(63)	(103)									
(Screwing)	(3)		(3)												
(Others)	(71)		(71)	(94)	(47)	(141)									
Assembly	5,846	7,767	13,613	6,538	36,674	43,212	11.8%	372.2%	217.4%	18.5%	26.6%	22.4%	25.0%	58.2%	48.5%
Material handling	2,891	3,179	6,070	2,730	3,675	6,406	-5.5%	15.6%	5.5%	9.2%	10.9%	10.0%	10.5%	5.8%	7.2%
Painting	3,352	3,163	6,515	1,290	1,056	2,346	-61.5%	-66.6%	-64.0%	10.6%	10.8%	10.7%	4.9%	1.7%	2.6%
(FPD)	(4,442)	(4,172)	(8,615)	(3,188)	(6,166)	(9,355)	-28.2%	47.8%	8.6%	14.1%	14.3%	14.2%	12.2%	9.8%	10.5%
(Semiconductor)	(850)	(309)	(1,159)	(2,835)	(1,686)	(4,521)	233.7%	445.6%	290.2%	2.7%	1.1%	1.9%	10.9%	2.7%	5.1%
(Others)	(20)		(20)	(100)	(21)	(121)									
Cleanroom	5,312	4,481	9,793	6,124	7,873	13,997	15.3%	75.7%	42.9%	16.8%	15.4%	16.1%	23.5%	12.5%	15.7%
Other applications	3,111	1,181	4,292	2,025	1,649	3,674	-34.9%	39.6%	-14.4%	9.9%	4.0%	7.1%	7.8%	2.6%	4.1%
Total	31,581	29,169	60,749	26,101	62,987	89,087	-17.4%	115.9%	46.6%	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.

January - March 2010 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2009	2010	Change from 2009	Percentage distribution	
	million yen	million yen		2009	2010
Metal products	925	1,048	13.3%	2.9%	4.0%
Construction Machinery	(857)	(76)	-91.2%	2.7%	0.3%
Metalworking machinery	(103)	(89)	-14.1%	0.3%	0.3%
Other machinery and equipment	(579)	(586)	1.2%	1.8%	2.2%
Machinery and equipment	1,539	750	-51.3%	4.9%	2.9%
Computers	(233)	(97)	-58.3%	0.7%	0.4%
Consumer electrical machinery	(205)	(552)	169.5%	0.6%	2.1%
Industrial electrical machinery	(816)	(91)	-88.9%	2.6%	0.3%
Info-communications equipment	(1,543)	(5,598)	262.9%	4.9%	21.4%
VTR	(59)	(89)	50.8%	0.2%	0.3%
Electronic components/devices	(5,307)	(3,024)	-43.0%	16.8%	11.6%
Other electrical machinery	(1,549)	(2,379)	53.6%	4.9%	9.1%
Electrical machinery	9,711	11,831	21.8%	30.8%	45.3%
Precision and optical instruments	164	814	396.5%	0.5%	3.1%
Motor vehicles	(6,318)	(1,980)	-68.7%	20.0%	7.6%
Auto parts	(6,767)	(3,839)	-43.3%	21.4%	14.7%
Motor vehicles and auto parts	13,084	5,818	-55.5%	41.4%	22.3%
Food products, beverages, and tobacco products	615	727	18.3%	1.9%	2.8%
Plastic products	1,899	1,720	-9.5%	6.0%	6.6%
EMS companies (Subconstructors)	0	0		0.0%	0.0%
Non-manufacturing	769	641	-16.7%	2.4%	2.5%
Other industries	2,874	2,752	-4.2%	9.1%	10.5%
Total domestic shipments	31,581	26,101	-17.4%	100.0%	100.0%
				(52.0%)	(29.3%)
Export	29,169	62,987	115.9%	(48.0%)	(70.7%)
Grand total	60,749	89,087	46.6%	(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.