

First Quarter (January - March) 2009 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	January - March 2008	January - March 2009	Change from 2008
	144,646	57,803	-60.0%

Shipments	January - March 2008			January - March 2009			Change from 2008			January - March 2008 (percentage distribution)			January - March 2009 (percentage distribution)		
	Application area	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports
Plastic moulding	3,647	2,158	5,805	2,016	1,400	3,416	-44.7%	-35.1%	-41.2%	6.4%	2.3%	3.9%	6.4%	4.8%	5.6%
Arc welding	(8,051)	(6,814)	(14,865)	(5,301)	(4,162)	(9,463)	-34.2%	-38.9%	-36.3%	14.1%	7.4%	9.9%	16.8%	14.3%	15.6%
Spot welding	(7,747)	(9,659)	(17,406)	(2,952)	(3,453)	(6,405)	-61.9%	-64.3%	-63.2%	13.6%	10.5%	11.6%	9.3%	11.8%	10.5%
Gas welding															
Laser welding	(11)	(3)	(14)	(11)		(11)									
Others	(37)	(5)	(42)	(21)		(21)									
Welding	15,846	16,481	32,327	8,285	7,615	15,900	-47.7%	-53.8%	-50.8%	27.7%	17.8%	21.6%	26.2%	26.1%	26.2%
Loading/unloading	(2,176)	(1,137)	(3,312)	(675)	(378)	(1,053)									
Mechanical cutting	(289)		(289)												
Grinding/deburring	(321)	(18)	(339)	(69)	(4)	(73)									
Others	(112)	(8)	(120)	(25)		(25)									
Machining	2,897	1,163	4,060	768	382	1,151	-73.5%	-67.1%	-71.7%	5.1%	1.3%	2.7%	2.4%	1.3%	1.9%
General Assembly	4,166	2,168	6,334	1,869	985	2,854	-55.1%	-54.6%	-54.9%	7.3%	2.3%	4.2%	5.9%	3.4%	4.7%
Surface Mount Technology	11,656	44,189	55,845	3,891	6,702	10,592	-66.6%	-84.8%	-81.0%	20.4%	47.8%	37.3%	12.3%	23.0%	17.4%
Other Assembly	223	257	480	86	81	167	-61.3%	-68.5%	-65.1%	0.4%	0.3%	0.3%	0.3%	0.3%	0.3%
(Bonding)															
(Soldering)															
(Sealing/glueing)	(217)	(255)	(472)	(12)	(81)	(93)									
(Screwing)	(2)		(2)	(3)		(3)									
(Others)	(4)	(2)	(6)	(71)		(71)									
Assembly	16,045	46,614	62,659	5,846	7,767	13,613	-63.6%	-83.3%	-78.3%	28.1%	50.4%	41.9%	18.5%	26.6%	22.4%
Material handling	5,225	7,654	12,879	2,891	3,179	6,070	-44.7%	-58.5%	-52.9%	9.1%	8.3%	8.6%	9.2%	10.9%	10.0%
Painting	3,789	3,657	7,446	3,353	3,163	6,516	-11.5%	-13.5%	-12.5%	6.6%	4.0%	5.0%	10.6%	10.8%	10.7%
(FPD)	(2,716)	(9,850)	(12,566)	(4,442)	(4,178)	(8,621)	63.6%	-57.6%	-31.4%	4.8%	10.7%	8.4%	14.1%	14.3%	14.2%
(Semiconductor)	(2,594)	(1,599)	(4,192)	(850)	(309)	(1,159)	-67.2%	-80.7%	-72.4%	4.5%	1.7%	2.8%	2.7%	1.1%	1.9%
(Others)				(20)		(20)									
Cleanroom	5,310	11,449	16,758	5,312	4,487	9,799	0.0%	-60.8%	-41.5%	9.3%	12.4%	11.2%	16.8%	15.4%	16.1%
Other applications	4,363	3,246	7,609	3,111	1,181	4,292	-28.7%	-63.6%	-43.6%	7.6%	3.5%	5.1%	9.9%	4.0%	7.1%
Total	57,122	92,420	149,543	31,582	29,175	60,756	-44.7%	-68.4%	-59.4%	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.

First Quarter (January - March) 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	2,120	925	-56.4%	3.7%	2.9%
Construction Machinery	(840)	(857)	2.0%	1.5%	2.7%
Metalworking machinery	(626)	(103)	-83.6%	1.1%	0.3%
Other machinery and equipment	(1,729)	(579)	-66.5%	3.0%	1.8%
Machinery and equipment	3,196	1,539	-51.8%	5.6%	4.9%
Computers	(283)	(233)	-17.6%	0.5%	0.7%
Consumer electrical machinery	(313)	(205)	-34.6%	0.5%	0.6%
Industrial electrical machinery	(2,361)	(816)	-65.4%	4.1%	2.6%
Info-communications equipment	(6,054)	(1,543)	-74.5%	10.6%	4.9%
VTR	(130)	(59)	-54.6%	0.2%	0.2%
Electronic components/devices	(2,895)	(5,307)	83.3%	5.1%	16.8%
Other electrical machinery	(3,986)	(1,549)	-61.1%	7.0%	4.9%
Electrical machinery	16,021	9,711	-39.4%	28.0%	30.7%
Precision and optical instruments	981	164	-83.3%	1.7%	0.5%
Motor vehicles	(12,434)	(6,318)	-49.2%	21.8%	20.0%
Auto parts	(13,527)	(6,768)	-50.0%	23.7%	21.4%
Motor vehicles and auto parts	25,962	13,085	-49.6%	45.4%	41.4%
Food products, beverages, and tobacco products	769	615	-20.1%	1.3%	1.9%
Plastic products	3,414	1,899	-44.4%	6.0%	6.0%
EMS companies (Subconstructors)	60	0	-100.0%	0.1%	0.0%
Non-manufacturing	580	769	32.5%	1.0%	2.4%
Other industries	4,019	2,874	-28.5%	7.0%	9.1%
Total domestic shipments	57,122	31,582	-44.7%	100.0%	100.0%
				(38.2%)	(52.0%)
Export	92,420	29,175	-68.4%	(61.8%)	(48.0%)
Grand total	149,543	60,756	-59.4%	(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.