

Fourth Quarter (October - December) 2008 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	October - December 2007	October - December 2008	Change from 2007
	126,438	84,089	-33.5%

Shipments	October - December 2007			October - December 2008			Change from 2007			October - December 2007 (percentage distribution)			October - December 2008 (percentage distribution)		
	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
Application area															
Plastic moulding	4,009	2,601	6,610	2,759	1,658	4,417	-31.2%	-36.3%	-33.2%	9.1%	3.1%	5.2%	7.7%	3.4%	5.2%
Arc welding	(6,136)	(6,410)	(12,547)	(6,275)	(5,219)	(11,494)	2.3%	-18.6%	-8.4%	13.9%	7.7%	9.9%	17.6%	10.6%	13.5%
Spot welding	(4,503)	(9,429)	(13,932)	(3,565)	(7,118)	(10,683)	-20.8%	-24.5%	-23.3%	10.2%	11.4%	11.0%	10.0%	14.4%	12.6%
Gas welding															
Laser welding	(12)	(10)	(22)	(6)		(6)									
Others	(13)	(32)	(45)	(10)	(9)	(19)									
Welding	10,665	15,881	26,545	9,856	12,346	22,202	-7.6%	-22.3%	-16.4%	24.1%	19.2%	20.9%	27.7%	25.1%	26.2%
Loading/unloading	(1,598)	(1,414)	(3,012)	(1,104)	(966)	(2,070)									
Mechanical cutting				(11)		(11)									
Grinding/deburring	(223)	(36)	(259)	(115)	(8)	(123)									
Others	(23)	(7)	(30)	(2)		(2)									
Machining	1,844	1,457	3,301	1,231	974	2,206	-33.2%	-33.1%	-33.2%	4.2%	1.8%	2.6%	3.5%	2.0%	2.6%
General Assembly	3,808	1,909	5,716	2,980	1,621	4,601	-21.7%	-15.1%	-19.5%	8.6%	2.3%	4.5%	8.4%	3.3%	5.4%
Surface Mount Technology	9,010	43,092	52,102	5,404	13,963	19,367	-40.0%	-67.6%	-62.8%	20.4%	52.0%	41.0%	15.2%	28.3%	22.8%
Other Assembly	71	113	184	204	241	445	187.5%	113.5%	142.0%	0.2%	0.1%	0.1%	0.6%	0.5%	0.5%
(Bonding)	(7)		(7)												
(Soldering)															
(Sealing/glueing)	(39)	(92)	(131)	(200)	(236)	(436)									
(Screwing)	(13)		(13)												
(Others)	(12)	(21)	(33)	(4)	(5)	(9)									
Assembly	12,889	45,114	58,003	8,588	15,825	24,413	-33.4%	-64.9%	-57.9%	29.1%	54.4%	45.6%	24.1%	32.1%	28.8%
Material handling	3,575	6,090	9,664	3,141	6,585	9,726	-12.1%	8.1%	0.6%	8.1%	7.3%	7.6%	8.8%	13.4%	11.5%
Painting	2,089	1,504	3,594	2,174	818	2,992	4.1%	-45.6%	-16.7%	4.7%	1.8%	2.8%	6.1%	1.7%	3.5%
(FPD)	(2,400)	(5,596)	(7,996)	(3,057)	(8,056)	(11,113)	27.4%	44.0%	39.0%	5.4%	6.8%	6.3%	8.6%	16.4%	13.1%
(Semiconductor)	(3,032)	(1,503)	(4,535)	(1,504)	(863)	(2,367)	-50.4%	-42.6%	-47.8%	6.8%	1.8%	3.6%	4.2%	1.8%	2.8%
(Others)	(3)		(3)												
Cleanroom	5,435	7,099	12,534	4,561	8,919	13,479	-16.1%	25.6%	7.5%	12.3%	8.6%	9.9%	12.8%	18.1%	15.9%
Other applications	3,760	3,131	6,891	3,306	2,142	5,448	-12.1%	-31.6%	-20.9%	8.5%	3.8%	5.4%	9.3%	4.3%	6.4%
Total	44,265	82,876	127,141	35,616	49,267	84,883	-19.5%	-40.6%	-33.2%	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.

Fourth Quarter (October - December) 2008 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2007	2008	Change from 2007	Percentage distribution	
	million yen	million yen		2007	2008
Metal products	1,665	1,099	-34.0%	3.8%	3.1%
Construction Machinery	(538)	(782)	45.3%	1.2%	2.2%
Metalworking machinery	(424)	(262)	-38.3%	1.0%	0.7%
Other machinery and equipment	(1,524)	(774)	-49.2%	3.4%	2.2%
Machinery and equipment	2,486	1,817	-26.9%	5.6%	5.1%
Computers	(532)	(161)	-69.8%	1.2%	0.5%
Consumer electrical machinery	(284)	(168)	-40.8%	0.6%	0.5%
Industrial electrical machinery	(1,906)	(1,575)	-17.4%	4.3%	4.4%
Info-communications equipment	(5,183)	(2,039)	-60.7%	11.7%	5.7%
VTR	(87)	(104)	19.1%	0.2%	0.3%
Electronic components/devices	(3,151)	(2,845)	-9.7%	7.1%	8.0%
Other electrical machinery	(3,167)	(3,086)	-2.6%	7.2%	8.7%
Electrical machinery	14,310	9,977	-30.3%	32.3%	28.0%
Precision and optical instruments	732	654	-10.6%	1.7%	1.8%
Motor vehicles	(6,483)	(6,650)	2.6%	14.6%	18.7%
Auto parts	(9,842)	(8,761)	-11.0%	22.2%	24.6%
Motor vehicles and auto parts	16,324	15,411	-5.6%	36.9%	43.3%
Food products, beverages, and tobacco products	614	617	0.5%	1.4%	1.7%
Plastic products	3,933	2,715	-31.0%	8.9%	7.6%
EMS companies (Subconstructors)	37	17	-54.1%	0.1%	0.0%
Non-manufacturing	160	378	136.5%	0.4%	1.1%
Other industries	4,004	2,931	-26.8%	9.0%	8.2%
Total domestic shipments	44,265	35,616	-19.5%	100.0%	100.0%
				(34.8%)	(42.0%)
Export	82,876	49,267	-40.6%	(65.2%)	(58.0%)
Grand total	127,141	84,883	-33.2%	(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.