

January - December 2007 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	January - December 2006	January - December 2007	Change from 2006
	551,609	574,772	4.2%

Shipments	January - December 2006			January - December 2007			Change from 2006			January - December 2006 (percentage distribution)			January - December 2007 (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	12,711	11,010	23,721	14,832	12,671	27,503	16.7%	15.1%	15.9%	6.3%	3.1%	4.3%	7.0%	3.4%	4.7%
Arc welding	(29,789)	(19,785)	(49,574)	(29,327)	(24,882)	(54,209)	-1.6%	25.8%	9.3%	14.9%	5.6%	8.9%	13.8%	6.7%	9.3%
Spot welding	(24,922)	(24,942)	(49,865)	(21,289)	(33,575)	(54,864)	-14.6%	34.6%	10.0%	12.4%	7.0%	9.0%	10.0%	9.0%	9.4%
Gas welding				(3)		(3)									
Laser welding	(266)	(19)	(285)	(29)	(14)	(43)									
Others	(40)	(25)	(65)	(71)	(49)	(120)									
Welding	55,017	44,772	99,789	50,719	58,520	109,239	-7.8%	30.7%	9.5%	27.5%	12.6%	18.0%	23.9%	15.7%	18.7%
Loading/unloading	(6,810)	(3,487)	(10,297)	(6,330)	(5,218)	(11,548)									
Mechanical cutting	(20)	(2)	(22)	(14)		(14)									
Grinding/deburring	(942)	(54)	(996)	(817)	(46)	(863)									
Others	(167)		(167)	(146)	(45)	(191)									
Machining	7,938	3,543	11,481	7,307	5,309	12,616	-8.0%	49.8%	9.9%	4.0%	1.0%	2.1%	3.4%	1.4%	2.2%
General Assembly	15,810	7,957	23,768	16,358	8,004	24,362	3.5%	0.6%	2.5%	7.9%	2.2%	4.3%	7.7%	2.1%	4.2%
Surface Mount Technology	50,462	204,085	254,548	49,624	213,570	263,193	-1.7%	4.6%	3.4%	25.2%	57.4%	45.8%	23.4%	57.2%	45.0%
Other Assembly	1,023	717	1,739	957	728	1,685	-6.4%	1.6%	-3.1%	0.5%	0.2%	0.3%	0.5%	0.2%	0.3%
(Bonding)				(7)		(7)									
(Soldering)															
(Sealing/glueing)	(846)	(702)	(1,548)	(907)	(690)	(1,597)									
(Screwing)	(31)		(31)	(13)		(13)									
(Others)	(146)	(15)	(161)	(30)	(38)	(68)									
Assembly	67,295	212,760	280,055	66,939	222,302	289,240	-0.5%	4.5%	3.3%	33.6%	59.9%	50.4%	31.6%	59.6%	49.4%
Material handling	14,948	17,802	32,750	16,100	21,805	37,905	7.7%	22.5%	15.7%	7.5%	5.0%	5.9%	7.6%	5.8%	6.5%
Painting	6,399	11,287	17,686	10,369	12,035	22,404	62.0%	6.6%	26.7%	3.2%	3.2%	3.2%	4.9%	3.2%	3.8%
(FPD)	(15,303)	(36,014)	(51,317)	(16,748)	(21,671)	(38,420)	9.4%	-39.8%	-25.1%	7.6%	10.1%	9.2%	7.9%	5.8%	6.6%
(Semiconductor)	(6,005)	(6,240)	(12,245)	(12,404)	(8,025)	(20,429)	106.6%	28.6%	66.8%	3.0%	1.8%	2.2%	5.9%	2.2%	3.5%
(Others)	(72)	(3)	(75)	(3)		(3)									
Cleanroom	21,380	42,257	63,637	29,155	29,696	58,851	36.4%	-29.7%	-7.5%	10.7%	11.9%	11.5%	13.8%	8.0%	10.1%
Other applications	14,636	11,907	26,543	16,551	10,751	27,302	13.1%	-9.7%	2.9%	7.3%	3.4%	4.8%	7.8%	2.9%	4.7%
Total	200,324	355,337	555,661	211,971	373,089	585,060	5.8%	5.0%	5.3%	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 - December 2007 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2006	2007	Change from 2006	Percentage distribution	
	million yen	million yen		2006	2007
Metal products	6,585	6,372	-3.2%	3.3%	3.0%
Construction Machinery	(2,747)	(2,513)	-8.5%	1.4%	1.2%
Metalworking machinery	(1,316)	(1,758)	33.6%	0.7%	0.8%
Other machinery and equipment	(5,911)	(6,371)	7.8%	3.0%	3.0%
Machinery and equipment	9,974	10,642	6.7%	5.0%	5.0%
Computers	(3,871)	(3,748)	-3.2%	1.9%	1.8%
Consumer electrical machinery	(1,088)	(1,056)	-2.9%	0.5%	0.5%
Industrial electrical machinery	(7,701)	(9,201)	19.5%	3.8%	4.3%
Info-communications equipment	(30,488)	(30,201)	-0.9%	15.2%	14.2%
VTR	(367)	(484)	31.9%	0.2%	0.2%
Electronic components/devices	(10,028)	(17,701)	76.5%	5.0%	8.4%
Other electrical machinery	(17,143)	(15,550)	-9.3%	8.6%	7.3%
Electrical machinery	70,686	77,942	10.3%	35.3%	36.8%
Precision and optical instruments	2,832	3,140	10.9%	1.4%	1.5%
Motor vehicles	(30,203)	(32,310)	7.0%	15.1%	15.2%
Auto parts	(48,659)	(46,281)	-4.9%	24.3%	21.8%
Motor vehicles and auto parts	78,861	78,591	-0.3%	39.4%	37.1%
Food products, beverages, and tobacco products	2,105	2,455	16.6%	1.1%	1.2%
Plastic products	12,256	14,235	16.1%	6.1%	6.7%
EMS companies (Subconstructors)	627	370	-40.9%	0.3%	0.2%
Non-manufacturing	3,061	1,301	-57.5%	1.5%	0.6%
Other industries	13,338	16,924	26.9%	6.7%	8.0%
Total domestic shipments	200,324	211,971	5.8%	100.0%	100.0%
				(36.1%)	(36.2%)
Export	355,337	373,089	5.0%	(63.9%)	(63.8%)
Grand total	555,661	585,060	5.3%	(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.