

Fourth Quarter (October - December) 2005 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	October - December 2004	October - December 2005	Change from 2004
		105,375	125,467

Shipments	October - December 2004			October - December 2005			Change from 2004			October - December 2004 (percentage distribution)			October - December 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		2,772	2,201	4,973	2,968	3,120	6,088	7.1%	41.7%	22.4%	7.2%	3.5%	4.9%	6.0%	3.8%	4.7%
Arc welding		4,742	4,270	9,011	6,653	5,122	11,775	40.3%	20.0%	30.7%	12.3%	6.7%	8.8%	13.4%	6.3%	9.0%
Spot welding		4,721	6,535	11,256	5,339	6,690	12,028	13.1%	2.4%	6.9%	12.3%	10.3%	11.0%	10.8%	8.2%	9.2%
Gas welding																
Laser welding		24		24	12	12	24									
Others		13	5	18	135	32	167									
Welding		9,499	10,810	20,309	12,139	11,856	23,994	27.8%	9.7%	18.1%	24.7%	17.0%	19.9%	24.4%	14.6%	18.3%
Loading/unloading		1,285	1,035	2,319	2,309	780	3,089									
Mechanical cutting		44		44		2	2									
Grinding/deburring		114	48	162	200	7	207									
Others		17	8	25	23		23									
Machining		1,460	1,091	2,550	2,531	789	3,320	73.4%	-27.7%	30.2%	3.8%	1.7%	2.5%	5.1%	1.0%	2.5%
General Assembly		2,827	1,435	4,262	3,962	1,828	5,790	40.1%	27.4%	35.8%	7.3%	2.3%	4.2%	8.0%	2.3%	4.4%
Surface Mount Technology		9,253	24,182	33,435	10,494	41,566	52,060	13.4%	71.9%	55.7%	24.0%	38.0%	32.7%	21.1%	51.2%	39.8%
Other Assembly		759	1,032	1,791	265	140	405	-65.1%	-86.4%	-77.4%	2.0%	1.6%	1.8%	0.5%	0.2%	0.3%
(Bonding)		(434)	(787)	(1,221)												
(Soldering)		(57)	(18)	(75)												
(Sealing/glueing)		(219)	(227)	(446)	(260)	(140)	(400)									
(Screwing)		(15)		(15)	(2)		(2)									
(Others)		(34)		(34)	(3)		(3)									
Assembly		12,839	26,649	39,488	14,720	43,534	58,254	14.7%	63.4%	47.5%	33.4%	41.8%	38.7%	29.6%	53.6%	44.5%
Material handling		3,117	4,193	7,310	4,119	4,185	8,304	32.2%	-0.2%	13.6%	8.1%	6.6%	7.2%	8.3%	5.2%	6.3%
Painting		1,552	1,033	2,585	5,385	1,868	7,254	246.9%	80.9%	180.6%	4.0%	1.6%	2.5%	10.8%	2.3%	5.5%
Clean room		2,773	14,745	17,518	3,761	12,948	16,709	35.6%	-12.2%	-4.6%	7.2%	23.2%	17.1%	7.6%	16.0%	12.8%
(FPD)		(1,615)	(13,525)	(15,140)	(1,920)	(12,030)	(13,950)	18.9%	-11.0%	-7.9%	4.2%	21.2%	14.8%	3.9%	14.8%	10.7%
(Semiconductor)		(1,134)	(1,220)	(2,354)	(1,841)	(918)	(2,759)	62.3%	-24.8%	17.2%	2.9%	1.9%	2.3%	3.7%	1.1%	2.1%
(Others)		(24)		(24)												
Other applications		4,472	2,959	7,431	4,038	2,846	6,883	-9.7%	-3.8%	-7.4%	11.6%	4.6%	7.3%	8.1%	3.5%	5.3%
Total		38,484	63,681	102,165	49,661	81,146	130,807	29.0%	27.4%	28.0%	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) 2005 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2004	2005	Change from 2004	Percentage distribution	
	million yen	million yen		2004	2005
Metal products	1,309	1,634	24.8%	3.4%	3.3%
Construction Machinery	410	480	17.0%	1.1%	1.0%
Metalworking machinery	71	242	239.5%	0.2%	0.5%
Other machinery and equipment	1,008	1,345	33.5%	2.6%	2.7%
Machinery and equipment	1,489	2,067	38.8%	3.9%	4.2%
Computers	3,446	609	-82.3%	9.0%	1.2%
Consumer electrical machinery	192	189	-1.3%	0.5%	0.4%
Industrial electrical machinery	932	1,951	109.3%	2.4%	3.9%
Info-communications equipment	2,307	5,852	153.6%	6.0%	11.8%
VTR	148	114	-22.8%	0.4%	0.2%
Electronic components/devices	2,234	2,370	6.1%	5.8%	4.8%
Other electrical machinery	3,918	3,367	-14.1%	10.2%	6.8%
Electrical machinery	13,177	14,451	9.7%	34.2%	29.1%
Precision and optical instruments	613	728	18.7%	1.6%	1.5%
Motor vehicles	6,385	11,292	76.8%	16.6%	22.7%
Auto parts	8,499	11,791	38.7%	22.1%	23.7%
Motor vehicles and auto parts	14,884	23,083	55.1%	38.7%	46.5%
Food products, beverages, and tobacco products	708	688	-2.8%	1.8%	1.4%
Plastic products	2,669	2,902	8.7%	6.9%	5.8%
EMS companies (Subconstructors)	210	54	-74.2%	0.5%	0.1%
Non-manufacturing	243	419	72.6%	0.6%	0.8%
Other industries	3,183	3,636	14.2%	8.3%	7.3%
Total domestic shipments	38,484	49,661	29.0%	100.0%	100.0%
				(37.7%)	(38.0%)
Export	63,681	81,146	27.4%	(62.3%)	(62.0%)
Grand total	102,165	130,807	28.0%	(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.