

Third Quarter (July - September) 2005 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	July - September 2004	July - September 2005	Change from 2004
		130,222	139,121

Shipments	July - September 2004			July - September 2005			Change from 2004			July - September 2004 (percentage distribution)			July - September 2005 (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	3,237	2,285	5,521	3,454	2,794	6,248	6.7%	22.3%	13.2%	7.4%	3.0%	4.6%	6.6%	3.1%	4.4%
Arc welding	5,065	4,846	9,911	7,039	6,825	13,864	39.0%	40.8%	39.9%	11.5%	6.3%	8.2%	13.5%	7.6%	9.8%
Spot welding	4,470	6,953	11,423	8,950	6,823	15,773	100.2%	-1.9%	38.1%	10.2%	9.0%	9.4%	17.2%	7.6%	11.1%
Gas welding															
Laser welding	48	1	49	147		147									
Others	13		13	120	3	123									
Welding	9,596	11,800	21,396	16,256	13,650	29,906	69.4%	15.7%	39.8%	21.8%	15.3%	17.7%	31.2%	15.2%	21.1%
Loading/unloading	1,563	992	2,555	1,866	767	2,633									
Mechanical cutting	105		105												
Grinding/deburring	126	33	159	82	24	106									
Others	21	4	25	10		10									
Machining	1,814	1,029	2,844	1,958	791	2,749	7.9%	-23.2%	-3.3%	4.1%	1.3%	2.3%	3.8%	0.9%	1.9%
General Assembly	2,896	1,513	4,409	3,602	1,612	5,214	24.4%	6.5%	18.3%	6.6%	2.0%	3.6%	6.9%	1.8%	3.7%
Surface Mount Technology	12,619	39,926	52,545	12,014	48,455	60,468	-4.8%	21.4%	15.1%	28.7%	51.8%	43.4%	23.0%	54.1%	42.7%
Other Assembly	993	1,253	2,246	298	150	448	-70.0%	-88.0%	-80.0%	2.3%	1.6%	1.9%	0.6%	0.2%	0.3%
(Bonding)	(582)	(1,123)	(1,705)												
(Soldering)	(8)	(6)	(14)		(11)	(11)									
(Sealing/glueing)	(363)	(121)	(483)	(290)	(133)	(423)									
(Screwing)	(13)		(13)												
(Others)	(28)	(4)	(31)	(8)	(6)	(14)									
Assembly	16,508	42,692	59,200	15,914	50,216	66,131	-3.6%	17.6%	11.7%	37.6%	55.4%	48.9%	30.5%	56.1%	46.7%
Material handling	2,963	3,843	6,807	4,423	5,007	9,431	49.3%	30.3%	38.5%	6.7%	5.0%	5.6%	8.5%	5.6%	6.7%
Painting	1,392	824	2,216	2,565	3,340	5,905	84.3%	305.1%	166.4%	3.2%	1.1%	1.8%	4.9%	3.7%	4.2%
Clean room	4,417	11,490	15,907	2,751	9,460	12,211	-37.7%	-17.7%	-23.2%	10.1%	14.9%	13.1%	5.3%	10.6%	8.6%
(FPD)	(3,188)	(10,192)	(13,380)	(1,782)	(8,758)	(10,539)	-44.1%	-14.1%	-21.2%	7.3%	13.2%	11.1%	3.4%	9.8%	7.4%
(Semiconductor)	(1,229)	(1,288)	(2,517)	(967)	(702)	(1,669)	-21.3%	-45.5%	-33.7%	2.8%	1.7%	2.1%	1.9%	0.8%	1.2%
(Others)		(10)	(10)	(2)		(2)									
Other applications	4,001	3,113	7,114	4,820	4,289	9,109	20.5%	37.8%	28.0%	9.1%	4.0%	5.9%	9.2%	4.8%	6.4%
Total	43,928	77,077	121,005	52,141	89,547	141,689	18.7%	16.2%	17.1%	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.

Third Quarter (July - September) 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	1,305	1,410	8.1%	3.0%	2.7%
Construction Machinery	643	613	-4.7%	1.5%	1.2%
Metalworking machinery	155	230	48.5%	0.4%	0.4%
Other machinery and equipment	997	1,188	19.2%	2.3%	2.3%
Machinery and equipment	1,796	2,031	13.1%	4.1%	3.9%
Computers	6,636	378	-94.3%	15.1%	0.7%
Consumer electrical machinery	183	273	49.2%	0.4%	0.5%
Industrial electrical machinery	1,032	2,674	159.2%	2.3%	5.1%
Info-communications equipment	2,655	6,735	153.7%	6.0%	12.9%
VTR	224	60	-73.1%	0.5%	0.1%
Electronic components/devices	3,022	2,049	-32.2%	6.9%	3.9%
Other electrical machinery	4,837	3,422	-29.2%	11.0%	6.6%
Electrical machinery	18,588	15,591	-16.1%	42.3%	29.9%
Precision and optical instruments	408	709	73.7%	0.9%	1.4%
Motor vehicles	5,148	12,577	144.3%	11.7%	24.1%
Auto parts	10,007	12,057	20.5%	22.8%	23.1%
Motor vehicles and auto parts	15,156	24,633	62.5%	34.5%	47.2%
Food products, beverages, and tobacco products	445	593	33.3%	1.0%	1.1%
Plastic products	2,955	3,276	10.9%	6.7%	6.3%
EMS companies (Subconstructors)	113	195	72.1%	-	0.4%
Non-manufacturing	301	210	-30.3%	0.7%	0.4%
Other industries	2,863	3,494	22.0%	6.5%	6.7%
Total domestic shipments	43,928	52,141	18.7%	100.0%	100.0%
				(36.3%)	(36.8%)
Export	77,077	89,547	16.2%	(63.7%)	(63.2%)
Grand total	121,005	141,689	17.1%	(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.