

July - September 2010 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	July - September 2009	July - September 2010	Change from 2009
	56,304	137,700	144.6%

Shipments	July - September 2009			July - September 2010			Change from 2009			July - September 2009 (percentage distribution)			July - September 2010 (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	1,458	1,063	2,521	1,638	2,432	4,070	12.3%	128.9%	61.5%	7.8%	2.8%	4.4%	6.5%	2.3%	3.1%
Arc welding	(2,274)	(2,236)	(4,509)	(3,048)	(6,564)	(9,612)	34.1%	193.6%	113.1%	12.2%	5.8%	7.9%	12.0%	6.2%	7.3%
Spot welding	(902)	(2,334)	(3,236)	(1,111)	(6,231)	(7,342)	23.2%	167.0%	126.9%	4.8%	6.1%	5.7%	4.4%	5.9%	5.6%
Gas welding															
Laser welding				(16)	(11)	(27)									
Others	(14)	(3)	(17)	(17)		(17)									
Welding	3,189	4,573	7,762	4,192	12,805	16,997	31.4%	180.0%	119.0%	17.1%	11.9%	13.6%	16.5%	12.1%	12.9%
Painting	1,011	744	1,755	679	1,298	1,977	-32.8%	74.5%	12.6%	5.4%	1.9%	3.1%	2.7%	1.2%	1.5%
Loading/unloading	(687)	(505)	(1,192)	(494)	(1,264)	(1,759)									
Mechanical cutting															
Grinding/deburring	(52)	(5)	(57)	(97)	(9)	(106)									
Others	(40)		(40)	(88)		(88)									
Machining	779	510	1,289	679	1,273	1,953	-12.8%	149.7%	51.5%	4.2%	1.3%	2.3%	2.7%	1.2%	1.5%
General Assembly	1,119	852	1,971	2,250	2,386	4,637	101.2%	180.0%	135.2%	6.0%	2.2%	3.5%	8.9%	2.3%	3.5%
Surface Mount Technology	4,032	23,441	27,473	5,198	65,397	70,595	28.9%	179.0%	157.0%	21.6%	61.2%	48.2%	20.5%	61.7%	53.8%
Other Assembly	203	32	235	522	235	757	156.7%	634.6%	221.8%	1.1%	0.1%	0.4%	2.1%	0.2%	0.6%
(Bonding)				(276)		(276)									
(Soldering)															
(Sealing/glueing)	(191)	(32)	(223)	(24)	(128)	(152)									
(Screwing)				(3)		(3)									
(Others)	(12)		(12)	(219)	(107)	(326)									
Assembly	5,354	24,325	29,679	7,970	68,019	75,989	48.9%	179.6%	156.0%	28.7%	63.5%	52.1%	31.4%	64.2%	57.9%
Palletizing/depalletizing	1,349	648	1,997	1,852	1,849	3,700	37.3%	185.3%	85.3%	7.2%	1.7%	3.5%	7.3%	1.7%	2.8%
Material handling	1,915	2,414	4,329	2,844	6,318	9,162	48.5%	161.7%	111.6%	10.3%	6.3%	7.6%	11.2%	6.0%	7.0%
(FPD)	(1,683)	(3,023)	(4,705)	(1,215)	(7,035)	(8,250)	-27.8%	132.8%	75.3%	9.0%	7.9%	8.3%	4.8%	6.6%	6.3%
(Semiconductor)	(1,531)	(688)	(2,219)	(3,181)	(2,439)	(5,620)	107.8%	254.5%	153.3%	8.2%	1.8%	3.9%	12.5%	2.3%	4.3%
(Others)	(15)		(15)	(286)		(286)									
Cleanroom	3,229	3,711	6,939	4,682	9,474	14,157	45.0%	155.3%	104.0%	17.3%	9.7%	12.2%	18.4%	8.9%	10.8%
Other applications	401	327	728	855	2,461	3,316	113.1%	653.0%	355.5%	2.1%	0.9%	1.3%	3.4%	2.3%	2.5%
Total	18,685	38,314	56,999	25,391	105,930	131,321	35.9%	176.5%	130.4%	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.

July - September 2010 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2009	2010	Change from 2009	Percentage distribution	
	million yen	million yen		2009	2010
Metal products	705	1,170	65.9%	3.8%	4.6%
Construction Machinery	(95)	(175)	85.3%	0.5%	0.7%
Metalworking machinery	(125)	(203)	62.1%	0.7%	0.8%
Other machinery and equipment	(316)	(227)	-28.2%	1.7%	0.9%
Machinery and equipment	536	605	12.9%	2.9%	2.4%
Computers	(52)	(183)	250.0%	0.3%	0.7%
Consumer electrical machinery	(213)	(643)	201.1%	1.1%	2.5%
Industrial electrical machinery	(565)	(230)	-59.2%	3.0%	0.9%
Info-communications equipment	(2,304)	(3,052)	32.5%	12.3%	12.0%
VTR	(44)	(178)	304.5%	0.2%	0.7%
Electronic components/devices	(2,590)	(4,264)	64.7%	13.9%	16.8%
Other electrical machinery	(2,465)	(3,180)	29.0%	13.2%	12.5%
Electrical machinery	8,234	11,731	42.5%	44.1%	46.2%
Precision and optical instruments	269	550	104.4%	1.4%	2.2%
Motor vehicles	(2,165)	(1,463)	-32.4%	11.6%	5.8%
Auto parts	(1,975)	(4,088)	107.0%	10.6%	16.1%
Motor vehicles and auto parts	4,140	5,551	34.1%	22.2%	21.9%
Food products, beverages, and tobacco products	777	854	9.9%	4.2%	3.4%
Plastic products	1,398	1,623	16.1%	7.5%	6.4%
EMS companies (Subconstructors)	8	0	-100.0%	0.0%	0.0%
Non-manufacturing	677	363	-46.3%	3.6%	1.4%
Other industries	1,942	2,945	51.6%	10.4%	11.6%
Total domestic shipments	18,685	25,391	35.9%	100.0%	100.0%
				(32.8%)	(19.3%)
Export	38,314	105,930	176.5%	(67.2%)	(80.7%)
Grand total	56,999	131,321	130.4%	(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.