

July - September 2011 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	July - September 2010	July - September 2011	Change from 2010
	137,700	138,787	0.8%

Shipments	July - September 2010			July - September 2011			Change from 2010			July - September 2010 (percentage distribution)			July - September 2011 (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	1,638	2,432	4,070	2,304	2,869	5,173	40.7%	18.0%	27.1%	6.5%	2.3%	3.1%	6.9%	2.8%	3.8%
Arc welding	(3,048)	(6,564)	(9,612)	(3,816)	(9,104)	(12,920)	25.2%	38.7%	34.4%	12.0%	6.2%	7.3%	11.4%	9.0%	9.6%
Spot welding	(1,111)	(6,231)	(7,342)	(1,385)	(11,916)	(13,300)	24.6%	91.2%	81.2%	4.4%	5.9%	5.6%	4.1%	11.8%	9.9%
Gas welding															
Laser welding	(16)	(11)	(27)	(21)	(36)	(57)									
Others	(17)		(17)	(31)	(35)	(66)									
Welding	4,192	12,805	16,997	5,252	21,091	26,343	25.3%	64.7%	55.0%	16.5%	12.1%	12.9%	15.7%	20.9%	19.6%
Painting	679	1,298	1,977	633	3,398	4,031	-6.8%	161.7%	103.9%	2.7%	1.2%	1.5%	1.9%	3.4%	3.0%
Loading/unloading	(494)	(1,264)	(1,759)	(1,524)	(2,141)	(3,665)									
Mechanical cutting				(5)		(5)									
Grinding/deburring	(97)	(9)	(106)	(79)	(19)	(98)									
Others	(88)		(88)	(45)	(72)	(117)									
Machining	679	1,273	1,953	1,653	2,232	3,885	143.3%	75.3%	99.0%	2.7%	1.2%	1.5%	4.9%	2.2%	2.9%
General Assembly	2,250	2,386	4,637	2,259	2,828	5,088	0.4%	18.5%	9.7%	8.9%	2.3%	3.5%	6.7%	2.8%	3.8%
Surface Mount Technology	5,198	65,397	70,595	5,718	48,580	54,298	10.0%	-25.7%	-23.1%	20.5%	61.7%	53.8%	17.1%	48.2%	40.4%
Other Assembly	522	235	757	225	310	535	-56.9%	31.9%	-29.3%	2.1%	0.2%	0.6%	0.7%	0.3%	0.4%
(Bonding)	(276)		(276)	(116)		(116)									
(Soldering)															
(Sealing/glueing)	(24)	(128)	(152)	(39)	(208)	(247)									
(Screwing)	(3)		(3)	(7)		(7)									
(Others)	(219)	(107)	(326)	(63)	(102)	(165)									
Assembly	7,970	68,019	75,989	8,202	51,718	59,921	2.9%	-24.0%	-21.1%	31.4%	64.2%	57.9%	24.5%	51.3%	44.6%
Palletizing/depalletizing	1,852	1,849	3,700	2,063	1,374	3,437	11.4%	-25.7%	-7.1%	7.3%	1.7%	2.8%	6.2%	1.4%	2.6%
Material handling	2,844	6,318	9,162	3,594	8,499	12,093	26.3%	34.5%	32.0%	11.2%	6.0%	7.0%	10.7%	8.4%	9.0%
(FPD)	(1,215)	(7,035)	(8,250)	(4,403)	(5,172)	(9,575)	262.4%	-26.5%	16.1%	4.8%	6.6%	6.3%	13.1%	5.1%	7.1%
(Semiconductor)	(3,181)	(2,439)	(5,620)	(3,562)	(2,047)	(5,609)	12.0%	-16.1%	-0.2%	12.5%	2.3%	4.3%	10.6%	2.0%	4.2%
(Others)	(286)		(286)	(9)		(9)									
Cleanroom	4,682	9,474	14,157	7,974	7,219	15,193	70.3%	-23.8%	7.3%	18.4%	8.9%	10.8%	23.8%	7.2%	11.3%
Other applications	855	2,461	3,316	1,838	2,479	4,317	114.9%	0.7%	30.2%	3.4%	2.3%	2.5%	5.5%	2.5%	3.2%
Total	25,391	105,930	131,321	33,513	100,880	134,392	32.0%	-4.8%	2.3%	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.

July - September 2011 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2010	2011	Change	Percentage distribution	
	million yen	million yen	from 2010	2010	2011
Metal products	1,170	966	-17.4%	4.6%	2.9%
Construction Machinery	(175)	(261)	48.9%	0.7%	0.8%
Metalworking machinery	(203)	(159)	-21.6%	0.8%	0.5%
Other machinery and equipment	(227)	(507)	123.4%	0.9%	1.5%
Machinery and equipment	605	927	53.2%	2.4%	2.8%
Computers	(183)	(80)	-56.3%	0.7%	0.2%
Consumer electrical machinery	(643)	(492)	-23.4%	2.5%	1.5%
Industrial electrical machinery	(230)	(860)	273.4%	0.9%	2.6%
Info-communications equipment	(3,052)	(3,989)	30.7%	12.0%	11.9%
VTR	(178)	(21)	-88.1%	0.7%	0.1%
Electronic components/devices	(4,264)	(5,261)	23.4%	16.8%	15.7%
Other electrical machinery	(3,180)	(5,146)	61.8%	12.5%	15.4%
Electrical machinery	11,731	15,850	35.1%	46.2%	47.3%
Precision and optical instruments	550	502	-8.7%	2.2%	1.5%
Motor vehicles	(1,463)	(2,733)	86.8%	5.8%	8.2%
Auto parts	(4,088)	(5,419)	32.6%	16.1%	16.2%
Motor vehicles and auto parts	5,551	8,152	46.8%	21.9%	24.3%
Food products, beverages, and tobacco products	854	1,208	41.5%	3.4%	3.6%
Plastic products	1,623	2,184	34.6%	6.4%	6.5%
EMS companies (Subconstructors)	0	81		0.0%	0.2%
Non-manufacturing	363	313	-13.8%	1.4%	0.9%
Other industries	2,945	3,330	13.1%	11.6%	9.9%
Total domestic shipments	25,391	33,513	32.0%	100.0%	100.0%
				(19.3%)	(24.9%)
Export	105,930	100,880	-4.8%	(80.7%)	(75.1%)
Grand total	131,321	134,392	2.3%	(100.0%)	(100.0%)

Note) These statistics include dedicated type (Surface Mount Technology / Bonding).

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