

July - September 2013 Results
Production and Shipments of Manipulators and Robots by Application Areas
[JARA Member Companies]

Number of units, (): million yen

Production	July - September 2012		July - September 2013		Change from 2012	
		25,411 (108,775)		26,646 (105,484)		+4.9% (-3.0%)

Shipments	July - September 2012			July - September 2013			Change from 2012			July - September 2012 (percentage distribution)			July - September 2013 (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	578	1,288	1,866	543	1,135	1,678	-6.1%	-11.9%	-10.1%	8.1%	6.9%	7.3%	8.5%	5.5%	6.3%
Arc welding	1,021	3,921	4,942	889	4,117	5,006	-12.9%	+5.0%	+1.3%	14.3%	21.1%	19.2%	14.0%	20.1%	18.7%
Spot welding	918	2,672	3,590	591	3,094	3,685	-35.6%	+15.8%	+2.6%	12.9%	14.4%	14.0%	9.3%	15.1%	13.7%
Laser welding	16	3	19	11		11	-31.3%	-100.0%	-42.1%	0.2%	0.0%	0.1%	0.2%		0.0%
Others	1		1	4	2	6	+300.0%		+500.0%	0.0%		0.0%	0.1%		0.0%
Welding Units	1,956	6,596	8,552	1,495	7,213	8,708	-23.6%	+9.4%	+1.8%	27.4%	35.5%	33.3%	23.5%	35.2%	32.5%
(million yen)	(8,185)	(16,451)	(24,636)	(6,563)	(17,779)	(24,342)	(-19.8%)	(+8.1%)	(-1.2%)	(23.6%)	(22.1%)	(22.6%)	(22.2%)	(23.3%)	(23.0%)
Painting	144	302	446	106	229	335	-26.4%	-24.2%	-24.9%	2.0%	1.6%	1.7%	1.7%	1.1%	1.2%
Loading/unloading	299	577	876	315	1,172	1,487	+5.4%	+103.1%	+69.7%	4.2%	3.1%	3.4%	5.0%	5.7%	5.5%
Mechanical cutting	2	1	3				-100.0%	-100.0%	-100.0%	0.0%	0.0%	0.0%			
Grinding/deburring	26	52	78	20	12	32	-23.1%	-76.9%	-59.0%	0.4%	0.3%	0.3%	0.3%	0.1%	0.1%
Others	12	1	13	16	1	17	+33.3%		+30.8%	0.2%	0.0%	0.1%	0.3%		0.1%
Machining Units	339	631	970	351	1,185	1,536	+3.5%	+87.8%	+58.4%	4.7%	3.4%	3.8%	5.5%	5.8%	5.7%
(million yen)	(1,675)	(1,782)	(3,457)	(823)	(1,957)	(2,781)	(-50.8%)	(+9.8%)	(-19.6%)	(4.8%)	(2.4%)	(3.2%)	(2.8%)	(2.6%)	(2.6%)
Surface Mount Technology	318	1,891	2,209	248	1,941	2,189	-22.0%	+2.6%	-0.9%	4.5%	10.2%	8.6%	3.9%	9.5%	8.2%
General Assembly	1,232	2,931	4,163	1,264	2,048	3,312	+2.6%	-30.1%	-20.4%	17.3%	15.8%	16.2%	19.9%	10.0%	12.3%
Other Assembly	67	141	208	22	159	181	-67.2%	+12.8%	-13.0%	0.9%	0.8%	0.8%	0.3%	0.8%	0.7%
Bonding															
Soldering	1		1	1		1				0.0%		0.0%	0.0%		0.0%
Sealing/glueing	57	59	116	16	82	98	-71.9%	+39.0%	-15.5%	0.8%	0.3%	0.5%	0.3%	0.4%	0.4%
Screwing	1		1	1		1				0.0%		0.0%	0.0%		0.0%
Others	8	82	90	4	77	81	-50.0%	-6.1%	-10.0%	0.1%	0.4%	0.4%	0.1%	0.4%	0.3%
Assembly Units	1,299	3,072	4,371	1,286	2,207	3,493	-1.0%	-28.2%	-20.1%	18.2%	16.5%	17.0%	20.2%	10.8%	13.0%
(million yen)	(2,416)	(3,738)	(6,153)	(2,190)	(3,135)	(5,326)	(-9.3%)	(-16.1%)	(-13.4%)	(7.0%)	(5.0%)	(5.6%)	(7.4%)	(4.1%)	(5.0%)
Palletizing/depalletizing	210	514	724	227	485	712	+8.1%	-5.6%	-1.7%	2.9%	2.8%	2.8%	3.6%	2.4%	2.7%
Material handling	1,342	3,158	4,500	990	4,157	5,147	-26.2%	+31.6%	+14.4%	18.8%	17.0%	17.5%	15.6%	20.3%	19.2%
FPD	52	179	231	93	201	294	+78.8%	+12.3%	+27.3%	0.7%	1.0%	0.9%	1.5%	1.0%	1.1%
Semiconductor	521	622	1,143	608	907	1,515	+16.7%	+45.8%	+32.5%	7.3%	3.4%	4.4%	9.6%	4.4%	5.6%
Others															
Cleanroom Units	573	801	1,374	701	1,108	1,809	+22.3%	+38.3%	+31.7%	8.0%	4.3%	5.3%	11.0%	5.4%	6.7%
(million yen)	(4,557)	(4,989)	(9,546)	(4,571)	(6,659)	(11,230)	(+0.3%)	(+33.5%)	(+17.6%)	(13.1%)	(6.7%)	(8.7%)	(15.5%)	(8.7%)	(10.6%)
Other applications	383	309	692	413	808	1,221	+7.8%	+161.5%	+76.4%	5.4%	1.7%	2.7%	6.5%	3.9%	4.6%
Total Units	7,142	18,562	25,704	6,360	20,468	26,828	-10.9%	+10.3%	+4.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen)	(34,726)	(74,471)	(109,197)	(29,510)	(76,363)	(105,873)	(-15.0%)	(+2.5%)	(-3.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Note)

Data includes dedicated type (Surface Mount Technology / Bonding).

Data is 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 2013 Results
Shipments of Manipulators and Robots by Industrial Branches
[JARA Member Companies]

Number of units, (): million yen

Industrial branches	2012 Jul-Sep	2013 Jul-Sep	Change from 2012	Percentage distribution	
				2012	2013
Metal products	321	306	-4.7%	4.5%	4.8%
Construction Machinery	34	20	-41.2%	0.5%	0.3%
Metalworking machinery	124	151	+21.8%	1.7%	2.4%
Other machinery and equipment	109	110	+0.9%	1.5%	1.7%
Machinery and equipment	267	281	+5.2%	3.7%	4.4%
Units					
(million yen)	(1,091)	(860)	(-21.1%)	(3.1%)	(2.9%)
Computers	32	8	-75.0%	0.4%	0.1%
Consumer electrical machinery	97	95	-2.1%	1.4%	1.5%
Industrial electrical machinery	140	156	+11.4%	2.0%	2.5%
Info-communications equipment	216	159	-26.4%	3.0%	2.5%
VTR					
Electronic components/devices	569	780	+37.1%	8.0%	12.3%
Other electrical machinery	743	646	-13.1%	10.4%	10.2%
Electrical machinery	1,797	1,844	+2.6%	25.2%	29.0%
Units					
(million yen)	(11,654)	(10,655)	(-8.6%)	(33.6%)	(36.1%)
Precision and optical instruments	294	153	-48.0%	4.1%	2.4%
Motor vehicles	1,144	598	-47.7%	16.0%	9.4%
Auto parts	1,658	1,480	-10.7%	23.2%	23.3%
Motor vehicles and auto parts	2,802	2,078	-25.8%	39.2%	32.7%
Units					
(million yen)	(13,049)	(8,579)	(-34.3%)	(37.6%)	(29.1%)
Food products, beverages, and tobacco products	141	184	+30.5%	2.0%	2.9%
Plastic products	590	562	-4.7%	8.3%	8.8%
Chemical products	41	82	+100.0%	0.6%	1.3%
Non-manufacturing	48		-100.0%	0.7%	
Other industries	841	870	+3.4%	11.8%	13.7%
Total domestic shipments	7,142	6,360	-10.9%	100.0%	100.0%
Units					
(million yen)	(34,726)	(29,510)	(-15.0%)	27.8%	23.7%
				(100.0%)	(100.0%)
				(31.8%)	(27.9%)
Export	18,562	20,468	+10.3%	72.2%	76.3%
Units					
(million yen)	(74,471)	(76,363)	(+2.5%)	(68.2%)	(72.1%)
Grand total	25,704	26,828	+4.4%	100.0%	100.0%
Units					
(million yen)	(109,197)	(105,873)	(-3.0%)	(100.0%)	(100.0%)

Note) Data includes dedicated type (Surface Mount Technology / Bonding).

Data is 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.