

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

Number of units, (): million yen

Production	April - June 2012		April - June 2013		Change from 2012	
		26,285 (114,809)		24,125 (100,250)		-8.2% (-12.7%)

Shipments	April - June 2012			April - June 2013			Change from 2012			April - June 2012 (percentage distribution)			April - June 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	499	1,417	1,916	422	1,520	1,942	-15.4%	+7.3%	+1.4%	8.3%	6.8%	7.1%	9.0%	7.9%	8.1%
Arc welding	736	3,970	4,706	594	3,703	4,297	-19.3%	-6.7%	-8.7%	12.2%	19.0%	17.5%	12.6%	19.3%	18.0%
Spot welding	775	2,574	3,349	570	2,658	3,228	-26.5%	+3.3%	-3.6%	12.8%	12.3%	12.5%	12.1%	13.9%	13.5%
Laser welding	21		21	10	3	13	-52.4%		-38.1%	0.3%		0.1%	0.2%	0.0%	0.1%
Others	1		1	4	1	5	+300.0%		+400.0%	0.0%		0.0%	0.1%	0.0%	0.0%
Welding Units	1,533	6,544	8,077	1,178	6,365	7,543	-23.2%	-2.7%	-6.6%	25.4%	31.4%	30.0%	25.1%	33.2%	31.6%
(million yen)	(6,948)	(16,406)	(23,354)	(5,483)	(15,647)	(21,130)	(-21.1%)	(-4.6%)	(-9.5%)	(24.2%)	(18.7%)	(20.1%)	(22.1%)	(20.7%)	(21.0%)
Painting	128	300	428	72	329	401	-43.8%	+9.7%	-6.3%	2.1%	1.4%	1.6%	1.5%	1.7%	1.7%
Loading/unloading	257	916	1,173	192	888	1,080	-25.3%	-3.1%	-7.9%	4.3%	4.4%	4.4%	4.1%	4.6%	4.5%
Mechanical cutting		2	2	1	5	6		+150.0%	+200.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Grinding/deburring	51	8	59	15	5	20	-70.6%	-37.5%	-66.1%	0.8%	0.0%	0.2%	0.3%	0.0%	0.1%
Others	13	1	14	10		10	-23.1%	-100.0%	-28.6%	0.2%	0.0%	0.1%	0.2%	0.0%	0.0%
Machining Units	321	927	1,248	218	898	1,116	-32.1%	-3.1%	-10.6%	5.3%	4.4%	4.6%	4.6%	4.7%	4.7%
(million yen)	(1,536)	(2,094)	(3,631)	(733)	(1,356)	(2,089)	(-52.3%)	(-35.2%)	(-42.5%)	(5.4%)	(2.4%)	(3.1%)	(3.0%)	(1.8%)	(2.1%)
Surface Mount Technology	272	2,749	3,021	224	2,379	2,603	-17.6%	-13.5%	-13.8%	4.5%	13.2%	11.2%	4.8%	12.4%	10.9%
General Assembly	1,266	2,692	3,958	875	2,125	3,000	-30.9%	-21.1%	-24.2%	20.9%	12.9%	14.7%	18.6%	11.1%	12.6%
Other Assembly	9	103	112	22	131	153	+144.4%	+27.2%	+36.6%	0.1%	0.5%	0.4%	0.5%	0.7%	0.6%
Bonding					6	6								0.0%	0.0%
Soldering		5	5					-100.0%	-100.0%		0.0%	0.0%			
Sealing/glueing	8	35	43	11	78	89	+37.5%	+122.9%	+107.0%	0.1%	0.2%	0.2%	0.2%	0.4%	0.4%
Screwing				5		5							0.1%		0.0%
Others	1	63	64	6	47	53	+500.0%	-25.4%	-17.2%	0.0%	0.3%	0.2%	0.1%	0.2%	0.2%
Assembly Units	1,275	2,795	4,070	897	2,256	3,153	-29.6%	-19.3%	-22.5%	21.1%	13.4%	15.1%	19.1%	11.8%	13.2%
(million yen)	(2,125)	(3,463)	(5,588)	(1,691)	(2,916)	(4,607)	(-20.4%)	(-15.8%)	(-17.6%)	(7.4%)	(3.9%)	(4.8%)	(6.8%)	(3.9%)	(4.6%)
Palletizing/depalletizing	162	410	572	150	433	583	-7.4%	+5.6%	+1.9%	2.7%	2.0%	2.1%	3.2%	2.3%	2.4%
Material handling	858	4,212	5,070	652	3,350	4,002	-24.0%	-20.5%	-21.1%	14.2%	20.2%	18.9%	13.9%	17.5%	16.8%
FPD	50	129	179	67	298	365	+34.0%	+131.0%	+103.9%	0.8%	0.6%	0.7%	1.4%	1.6%	1.5%
Semiconductor	571	1,110	1,681	504	898	1,402	-11.7%	-19.1%	-16.6%	9.4%	5.3%	6.3%	10.7%	4.7%	5.9%
Others				1		1							0.0%		0.0%
Cleanroom Units	621	1,239	1,860	572	1,196	1,768	-7.9%	-3.5%	-4.9%	10.3%	5.9%	6.9%	12.2%	6.2%	7.4%
(million yen)	(3,989)	(5,105)	(9,093)	(3,626)	(4,178)	(7,804)	(-9.1%)	(-18.1%)	(-14.2%)	(13.9%)	(5.8%)	(7.8%)	(14.6%)	(5.5%)	(7.8%)
Other applications	374	259	633	315	430	745	-15.8%	+66.0%	+17.7%	6.2%	1.2%	2.4%	6.7%	2.2%	3.1%
Total Units	6,043	20,852	26,895	4,700	19,156	23,856	-22.2%	-8.1%	-11.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen)	(28,686)	(87,781)	(116,466)	(24,823)	(75,638)	(100,460)	(-13.5%)	(-13.8%)	(-13.7%)	(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.

April - June 2013 Results
Shipments of Manipulators and Robots by Industrial Branches
[JARA Member Companies]

Number of units, (): million yen

Industrial branches	2012 Apr-Jun	2013 Apr-Jun	Change from 2012	Percentage distribution	
				2012	2013
Metal products	314	182	-42.0%	5.2%	3.9%
Construction Machinery	35	14	-60.0%	0.6%	0.3%
Metalworking machinery	115	84	-27.0%	1.9%	1.8%
Other machinery and equipment	113	62	-45.1%	1.9%	1.3%
Machinery and equipment	263	160	-39.2%	4.4%	3.4%
Units				(4.6%)	(2.8%)
(million yen)	(1,332)	(684)	(-48.7%)		
Computers	74	5	-93.2%	1.2%	0.1%
Consumer electrical machinery	86	76	-11.6%	1.4%	1.6%
Industrial electrical machinery	104	136	+30.8%	1.7%	2.9%
Info-communications equipment	149	156	+4.7%	2.5%	3.3%
VTR					
Electronic components/devices	614	578	-5.9%	10.2%	12.3%
Other electrical machinery	790	503	-36.3%	13.1%	10.7%
Electrical machinery	1,817	1,454	-20.0%	30.1%	30.9%
Units				(34.7%)	(38.7%)
(million yen)	(9,958)	(9,595)	(-3.6%)		
Precision and optical instruments	167	78	-53.3%	2.8%	1.7%
Motor vehicles	791	549	-30.6%	13.1%	11.7%
Auto parts	1,290	1,167	-9.5%	21.3%	24.8%
Motor vehicles and auto parts	2,081	1,716	-17.5%	34.4%	36.5%
Units				(34.9%)	(31.9%)
(million yen)	(10,013)	(7,926)	(-20.8%)		
Food products, beverages, and tobacco products	111	132	+18.9%	1.8%	2.8%
Plastic products	518	427	-17.6%	8.6%	9.1%
Chemical products	47	33	-29.8%	0.8%	0.7%
Non-manufacturing	37		-100.0%	0.6%	
Other industries	688	518	-24.7%	11.4%	11.0%
Total domestic shipments	6,043	4,700	-22.2%	100.0%	100.0%
Units				22.5%	19.7%
(million yen)	(28,686)	(24,823)	(-13.5%)	(100.0%)	(100.0%)
Units				(24.6%)	(24.7%)
Export	20,852	19,156	-8.1%	77.5%	80.3%
Units				(75.4%)	(75.3%)
(million yen)	(87,781)	(75,638)	(-13.8%)		
Grand total	26,895	23,856	-11.3%	100.0%	100.0%
Units				(100.0%)	(100.0%)
(million yen)	(116,466)	(100,460)	(-13.7%)		

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

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