

January - March 2014 Results
Production and Shipments of Manipulators and Robots by Application Areas
[JARA Member Companies]

Number of units, (): million yen

Production	January - March 2013	January - March 2014	Change from 2013
	21,150 (94,288)	30,355 (120,657)	+43.5% (+28.0%)

Shipments Application area	January - March 2013			January - March 2014			Change from 2013			January - March 2013 (percentage distribution)			January - March 2014 (percentage distribution)		
	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
Plastic moulding	545	998	1,543	906	1,303	2,209	+66.2%	+30.6%	+43.2%	9.0%	6.1%	6.9%	11.7%	5.9%	7.4%
Arc welding	691	2,884	3,575	925	4,079	5,004	+33.9%	+41.4%	+40.0%	11.5%	17.8%	16.1%	11.9%	18.4%	16.7%
Spot welding	895	3,121	4,016	803	3,940	4,743	-10.3%	+26.2%	+18.1%	14.8%	19.2%	18.0%	10.4%	17.7%	15.8%
Laser welding	5		5	12		12	+140.0%		+140.0%	0.1%		0.0%	0.2%		0.0%
Others	12	2	14	5	4	9	-58.3%	+100.0%	-35.7%	0.2%	0.0%	0.1%	0.1%	0.0%	0.0%
Welding Units	1,603	6,007	7,610	1,745	8,023	9,768	+8.9%	+33.6%	+28.4%	26.6%	37.0%	34.2%	22.5%	36.1%	32.6%
(million yen)	(7,527)	(15,539)	(23,067)	(7,894)	(20,717)	(28,612)	(+4.9%)	(+33.3%)	(+24.0%)	(23.4%)	(23.8%)	(23.7%)	(21.9%)	(25.8%)	(24.6%)
Painting	109	463	572	179	442	621	+64.2%	-4.5%	+8.6%	1.8%	2.9%	2.6%	2.3%	2.0%	2.1%
Loading/unloading	312	1,061	1,373	439	748	1,187	+40.7%	-29.5%	-13.5%	5.2%	6.5%	6.2%	5.7%	3.4%	4.0%
Mechanical cutting	2	1	3		16	16	-100.0%	+1,500.0%	+433.3%	0.0%	0.0%	0.0%		0.1%	0.1%
Grinding/deburring	34	7	41	38	4	42	+11.8%	-42.9%	+2.4%	0.6%	0.0%	0.2%	0.5%	0.0%	0.1%
Others	5	1	6	16	4	20	+220.0%	+300.0%	+233.3%	0.1%	0.0%	0.0%	0.2%	0.0%	0.1%
Machining Units	353	1,070	1,423	493	772	1,265	+39.7%	-27.9%	-11.1%	5.9%	6.6%	6.4%	6.4%	3.5%	4.2%
(million yen)	(901)	(1,731)	(2,632)	(1,192)	(1,226)	(2,418)	(+32.3%)	(-29.2%)	(-8.1%)	(2.8%)	(2.7%)	(2.7%)	(3.3%)	(1.5%)	(2.1%)
Surface Mount Technology	193	1,463	1,656	306	1,748	2,054	+58.5%	+19.5%	+24.0%	3.2%	9.0%	7.4%	4.0%	7.9%	6.9%
General Assembly	987	1,804	2,791	1,127	2,346	3,473	+14.2%	+30.0%	+24.4%	16.4%	11.1%	12.5%	14.6%	10.6%	11.6%
Other Assembly	34	91	125	14	40	54	-58.8%	-56.0%	-56.8%	0.6%	0.6%	0.6%	0.2%	0.2%	0.2%
Bonding															
Soldering															
Sealing/glueing	12	51	63	9	15	24	-25.0%	-70.6%	-61.9%	0.2%	0.3%	0.3%	0.1%	0.1%	0.1%
Screwing															
Others	22	40	62	5	25	30	-77.3%	-37.5%	-51.6%	0.4%	0.2%	0.3%	0.1%	0.1%	0.1%
Assembly Units	1,021	1,895	2,916	1,141	2,386	3,527	+11.8%	+25.9%	+21.0%	16.9%	11.7%	13.1%	14.7%	10.7%	11.8%
(million yen)	(1,852)	(2,473)	(4,325)	(2,053)	(3,067)	(5,120)	(+10.8%)	(+24.0%)	(+18.4%)	(5.8%)	(3.8%)	(4.4%)	(5.7%)	(3.8%)	(4.4%)
Palletizing/depalletizing	263	358	621	283	563	846	+7.6%	+57.3%	+36.2%	4.4%	2.2%	2.8%	3.7%	2.5%	2.8%
Material handling	949	2,712	3,661	1,332	5,067	6,399	+40.4%	+86.8%	+74.8%	15.7%	16.7%	16.4%	17.2%	22.8%	21.4%
FPD	110	243	353	55	224	279	-50.0%	-7.8%	-21.0%	1.8%	1.5%	1.6%	0.7%	1.0%	0.9%
Semiconductor	506	574	1,080	931	1,130	2,061	+84.0%	+96.9%	+90.8%	8.4%	3.5%	4.9%	12.0%	5.1%	6.9%
Others	1		1				-100.0%		-100.0%	0.0%		0.0%			
Cleanroom Units	617	817	1,434	986	1,354	2,340	+59.8%	+65.7%	+63.2%	10.2%	5.0%	6.4%	12.7%	6.1%	7.8%
(million yen)	(5,473)	(6,491)	(11,964)	(4,799)	(5,455)	(10,253)	(-12.3%)	(-16.0%)	(-14.3%)	(17.0%)	(10.0%)	(12.3%)	(13.3%)	(6.8%)	(8.8%)
Other applications	381	448	829	373	541	914	-2.1%	+20.8%	+10.3%	6.3%	2.8%	3.7%	4.8%	2.4%	3.1%
Total Units	6,034	16,231	22,265	7,744	22,199	29,943	+28.3%	+36.8%	+34.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen)	(32,105)	(65,186)	(97,292)	(36,073)	(80,369)	(116,443)	(+12.4%)	(+23.3%)	(+19.7%)	(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.

January - March 2014 Results
Shipments of Manipulators and Robots by Industrial Branches
[JARA Member Companies]

Number of units, (): million yen

Industrial branches	2013 Jan-Mar	2014 Jan-Mar	Change from 2013	Percentage distribution	
				2013	2014
Metal products	257	352	+37.0%	4.3%	4.5%
Construction machinery	24	46	+91.7%	0.4%	0.6%
Metalworking machinery	132	210	+59.1%	2.2%	2.7%
Other machinery and equipment	117	211	+80.3%	1.9%	2.7%
Machinery and equipment	273	467	+71.1%	4.5%	6.0%
Units				(3.4%)	(4.3%)
(million yen)	(1,097)	(1,535)	(+40.0%)		
Computers	13	9	-30.8%	0.2%	0.1%
Consumer electrical machinery	201	169	-15.9%	3.3%	2.2%
Industrial electrical machinery	195	81	-58.5%	3.2%	1.0%
Info-communications equipment	130	196	+50.8%	2.2%	2.5%
VTR					
Electronic components/devices	590	1,003	+70.0%	9.8%	13.0%
Other electrical machinery	527	597	+13.3%	8.7%	7.7%
Electrical machinery	1,656	2,055	+24.1%	27.4%	26.5%
Units				(32.8%)	(31.2%)
(million yen)	(10,537)	(11,270)	(+7.0%)		
Precision and optical instruments	70	93	+32.9%	1.2%	1.2%
Motor vehicles	819	869	+6.1%	13.6%	11.2%
Auto parts	1,361	1,661	+22.0%	22.6%	21.4%
Motor vehicles and auto parts	2,180	2,530	+16.1%	36.1%	32.7%
Units				(32.9%)	(31.8%)
(million yen)	(10,573)	(11,469)	(+8.5%)		
Food products, beverages, and tobacco products	219	226	+3.2%	3.6%	2.9%
Plastic products	564	925	+64.0%	9.3%	11.9%
Chemical products	63	92	+46.0%	1.0%	1.2%
Non-manufacturing					
Other industries	752	1,004	+33.5%	12.5%	13.0%
Total domestic shipments	6,034	7,744	+28.3%	100.0%	100.0%
Units				27.1%	25.9%
(million yen)	(32,105)	(36,073)	(+12.4%)	(100.0%)	(100.0%)
(million yen)				(33.0%)	(31.0%)
Export	16,231	22,199	+36.8%	72.9%	74.1%
Units				(67.0%)	(69.0%)
(million yen)	(65,186)	(80,369)	(+23.3%)		
Grand total	22,265	29,943	+34.5%	100.0%	100.0%
Units				(100.0%)	(100.0%)
(million yen)	(97,292)	(116,443)	(+19.7%)		

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.