

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

Number of units, (): million yen

Production	January - March 2012	January - March 2013	Change from 2012
	26,510 (114,241)	21,339 (94,323)	-19.5% (-17.4%)

Shipments	January - March 2012			January - March 2013			Change from 2012			January - March 2012 (percentage distribution)			January - March 2013 (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	609	1,548	2,157	548	998	1,546	-10.0%	-35.5%	-28.3%	7.8%	8.0%	8.0%	8.7%	6.1%	6.9%
Arc welding	731	3,722	4,453	715	2,884	3,599	-2.2%	-22.5%	-19.2%	9.4%	19.3%	16.5%	11.3%	17.8%	16.0%
Spot welding	897	3,478	4,375	895	3,121	4,016	-0.2%	-10.3%	-8.2%	11.6%	18.1%	16.2%	14.2%	19.2%	17.8%
Gas welding															
Laser welding	18	6	24	5		5									
Others		2	2	12	2	14									
Welding Units	1,646	7,208	8,854	1,627	6,007	7,634	-1.2%	-16.7%	-13.8%	21.2%	37.4%	32.8%	25.8%	37.0%	33.9%
(million yen)	(8,545)	(18,553)	(27,098)	(7,599)	(15,547)	(23,147)	(-11.1%)	(-16.2%)	(-14.6%)	(22.6%)	(23.4%)	(23.1%)	(23.3%)	(23.8%)	(23.6%)
Painting	221	334	555	110	463	573	-50.2%	+38.6%	+3.2%	2.8%	1.7%	2.1%	1.7%	2.9%	2.5%
Loading/unloading	428	767	1,195	313	1,061	1,374									
Mechanical cutting	1		1	2	1	3									
Grinding/deburring	29	35	64	34	7	41									
Others	31	2	33	5	1	6									
Machining Units	489	804	1,293	354	1,070	1,424	-27.6%	+33.1%	+10.1%	6.3%	4.2%	4.8%	5.6%	6.6%	6.3%
(million yen)	(1,542)	(1,746)	(3,288)	(905)	(1,731)	(2,636)	(-41.3%)	(-0.9%)	(-19.8%)	(4.1%)	(2.2%)	(2.8%)	(2.8%)	(2.7%)	(2.7%)
Surface Mount Technology	328	2,101	2,429	193	1,463	1,656	-41.2%	-30.4%	-31.8%	4.2%	10.9%	9.0%	3.1%	9.0%	7.3%
General Assembly	1,331	2,008	3,339	987	1,804	2,791	-25.8%	-10.2%	-16.4%	17.1%	10.4%	12.4%	15.6%	11.1%	12.4%
Other Assembly	247	68	315	223	91	314	-9.7%	+33.8%	-0.3%	3.2%	0.4%	1.2%	3.5%	0.6%	1.4%
Bonding	226		226	188		188									
Soldering															
Sealing/glueing	17	35	52	12	51	63									
Screwing															
Others	4	33	37	23	40	63									
Assembly Units	1,578	2,076	3,654	1,210	1,895	3,105	-23.3%	-8.7%	-15.0%	20.3%	10.8%	13.5%	19.2%	11.7%	13.8%
(million yen)	(7,840)	(35,279)	(43,118)	(4,986)	(23,498)	(28,484)	(-36.4%)	(-33.4%)	(-33.9%)	(20.8%)	(44.4%)	(36.8%)	(15.3%)	(36.0%)	(29.1%)
Palletizing/depalletizing	265	367	632	276	358	634	+4.2%	-2.5%	+0.3%	3.4%	1.9%	2.3%	4.4%	2.2%	2.8%
Material handling	937	3,347	4,284	967	2,712	3,679	+3.2%	-19.0%	-14.1%	12.1%	17.4%	15.9%	15.3%	16.7%	16.3%
FPD	162	154	316	110	243	353	-32.1%	+57.8%	+11.7%	2.1%	0.8%	1.2%	1.7%	1.5%	1.6%
Semiconductor	906	976	1,882	506	574	1,080	-44.2%	-41.2%	-42.6%	11.7%	5.1%	7.0%	8.0%	3.5%	4.8%
Others				1		1									
Cleanroom Units	1,068	1,130	2,198	617	817	1,434	-42.2%	-27.7%	-34.8%	13.8%	5.9%	8.1%	9.8%	5.0%	6.4%
(million yen)	(7,348)	(6,500)	(13,848)	(5,473)	(6,491)	(11,964)	(-25.5%)	(-0.1%)	(-13.6%)	(19.5%)	(8.2%)	(11.8%)	(16.7%)	(10.0%)	(12.2%)
Other applications	621	337	958	412	448	860	-33.7%	+32.9%	-10.2%	8.0%	1.8%	3.5%	6.5%	2.8%	3.8%
Total Units	7,762	19,252	27,014	6,314	16,231	22,545	-18.7%	-15.7%	-16.5%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen)	(37,763)	(79,433)	(117,197)	(32,681)	(65,194)	(97,875)	(-13.5%)	(-17.9%)	(-16.5%)	(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 2013 Results
Shipments of Manipulators and Robots by Industrial Branches
[JARA Member Companies]

Number of units, (): million yen

Industrial branches	2012 Jan-Mar	2013 Jan-Mar	Change from 2012	Percentage distribution	
				2012	2013
Metal products	450	257	-42.9%	5.8%	4.1%
Construction Machinery	24	24	+0.0%	0.3%	0.4%
Metalworking machinery	137	132	-3.6%	1.8%	2.1%
Other machinery and equipment	97	117	+20.6%	1.2%	1.9%
Machinery and equipment	258	273	+5.8%	3.3%	4.3%
Units					
(million yen)	(1,117)	(1,097)	(-1.8%)	(3.0%)	(3.4%)
Computers	79	13	-83.5%	1.0%	0.2%
Consumer electrical machinery	132	201	+52.3%	1.7%	3.2%
Industrial electrical machinery	236	195	-17.4%	3.0%	3.1%
Info-communications equipment	304	130	-57.2%	3.9%	2.1%
VTR	0	0		0.0%	0.0%
Electronic components/devices	1,201	778	-35.2%	15.5%	12.3%
Other electrical machinery	822	527	-35.9%	10.6%	8.3%
Electrical machinery	2,774	1,844	-33.5%	35.7%	29.2%
Units					
(million yen)	(14,625)	(10,564)	(-27.8%)	(38.7%)	(32.3%)
Precision and optical instruments	138	70	-49.3%	1.8%	1.1%
Motor vehicles	815	819	+0.5%	10.5%	13.0%
Auto parts	1,335	1,361	+1.9%	17.2%	21.6%
Motor vehicles and auto parts	2,150	2,180	+1.4%	27.7%	34.5%
Units					
(million yen)	(11,533)	(10,573)	(-8.3%)	(30.5%)	(32.4%)
Food products, beverages, and tobacco products	169	217	+28.4%	2.2%	3.4%
Plastic products	623	564	-9.5%	8.0%	8.9%
Chemical products	66	63	-4.5%	0.9%	1.0%
Non-manufacturing	67	106	+58.2%	0.9%	1.7%
Other industries	1,067	740	-30.6%	13.7%	11.7%
Total domestic shipments	7,762	6,314	-18.7%	100.0%	100.0%
Units					
(million yen)	(37,763)	(32,681)	(-13.5%)	28.7%	28.0%
				(100.0%)	(100.0%)
				(32.2%)	(33.4%)
Export	19,252	16,231	-15.7%	71.3%	72.0%
Units					
(million yen)	(79,433)	(65,194)	(-17.9%)	(67.8%)	(66.6%)
Grand total	27,014	22,545	-16.5%	100.0%	100.0%
Units					
(million yen)	(117,197)	(97,875)	(-16.5%)	(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.