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

Number of units, (): million yen

	January - March 2012	January - March 2013	Change from 2012		
Production	26,285	21,150	-19.5%		
	(114,201)	(94,288)	(-17.4%)		

Shipments	Janua	January - March 2012			January - March 2013			Change from 2012			January - March 2012 (percentage distribution)			January - March 2013 (percentage distribution)		
Application area	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	
Plastic moulding	609	1,548	2,157	545	998	1,543	-10.5%	-35.5%	-28.5%	8.1%	8.0%	8.1%	9.0%	6.1%	6.9%	
Arc welding	731	3,722	4,453	691	2,884	3,575	-5.5%	-22.5%	-19.7%	9.7%	19.3%	16.6%	11.5%	17.8%	16.1%	
Spot welding	897	3,478	4,375	895	3,121	4,016	-0.2%	-10.3%	-8.2%	11.9%	18.1%	16.3%	14.8%	19.2%	18.0%	
Gas welding																
Laser welding	18	6	24	5		5	-72.2%	-100.0%	-79.2%	0.2%	0.0%	0.1%	0.1%		0.0%	
Others		2	2	12	2	14			+600.0%		0.0%	0.0%	0.2%	0.0%	0.1%	
Welding Units	1,646	7,208	8,854	1,603	6,007	7,610	-2.6%	-16.7%	-14.1%	21.8%	37.4%	33.1%	26.6%	37.0%	34.2%	
(million yen)	(8,545)	(18,553)	(27,098)	(7,527)	(15,539)	(23,067)	(-11.9%)	(-16.2%)	(-14.9%)	(22.7%)	(23.4%)	(23.1%)	(23.4%)	(23.8%)	(23.7%)	
Painting	221	334	555	109	463	572	-50.7%	+38.6%	+3.1%	2.9%	1.7%	2.1%	1.8%	2.9%	2.6%	
Loading/unloading	428	767	1,195	312	1,061	1,373	-27.1%	+38.3%	+14.9%	5.7%	4.0%	4.5%	5.2%	6.5%	6.2%	
Mechanical cutting	1		1	2	1	3	+100.0%		+200.0%	0.0%		0.0%	0.0%	0.0%	0.0%	
Grinding/deburring	29	35	64	34	7	41	+17.2%	-80.0%	-35.9%	0.4%	0.2%	0.2%	0.6%	0.0%	0.2%	
Others	31	2	33	5	1	6	-83.9%	-50.0%	-81.8%	0.4%	0.0%	0.1%	0.1%	0.0%	0.0%	
Machining Units	489	804	1,293	353	1,070	1,423	-27.8%	+33.1%	+10.1%	6.5%	4.2%	4.8%	5.9%	6.6%	6.4%	
(million yen)	(1,542)	(1,746)	(3,288)	(901)	(1,731)	(2,632)	(-41.6%)	(-0.9%)	(-20.0%)	(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%	4.4%	10.9%	9.1%	3.2%	9.0%	7.4%	
General Assembly	1,331	2,008	3,339	987	1,804	2,791	-25.8%	-10.2%	-16.4%	17.7%	10.4%	12.5%	16.4%	11.1%	12.5%	
Other Assembly	22	68	90	34	91	125	+54.5%	+33.8%	+38.9%	0.3%	0.4%	0.3%	0.6%	0.6%	0.6%	
Bonding	1		1				-100.0%		-100.0%	0.0%		0.0%				
Soldering																
Sealing/glueing	17	35	52	12	51	63	-29.4%	+45.7%	+21.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	
Screwing																
Others	4	33	37	22	40	62	+450.0%	+21.2%	+67.6%	0.1%	0.2%	0.1%	0.4%	0.2%	0.3%	
Assembly Units	1,353	2,076	3,429	1,021	1,895	2,916	-24.5%	-8.7%	-15.0%	18.0%	10.8%	12.8%	16.9%	11.7%	13.1%	
(million yen)	(2,242)	(2,698)	(4,939)	(1,852)	(2,473)	(4,325)	(-17.4%)	(-8.3%)	(-12.4%)	(5.9%)	(3.4%)	(4.2%)	(5.8%)	(3.8%)	(4.4%)	
Palletizing/depalletizing	265	367	632	263	358	621	-0.8%	-2.5%	-1.7%	3.5%	1.9%	2.4%	4.4%	2.2%	2.8%	
Material handling	937	3,347	4,284	949	2,712	3,661	+1.3%	-19.0%	-14.5%	12.4%	17.4%	16.0%	15.7%	16.7%	16.4%	
FPD	162	154	316	110	243	353	-32.1%	+57.8%	+11.7%	2.1%	0.8%	1.2%	1.8%	1.5%	1.6%	
Semiconductor	906	976	1,882	506	574	1,080	-44.2%	-41.2%	-42.6%	12.0%	5.1%	7.0%	8.4%	3.5%	4.9%	
Others				1		1							0.0%		0.0%	
Cleanroom Units	1,068	1,130	2,198	617	817	1,434	-42.2%	-27.7%	-34.8%	14.2%	5.9%	8.2%	10.2%	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%)	(17.0%)	(10.0%)	(12.3%)	
Other applications	621	337	958	381	448	829	-38.6%	+32.9%	-13.5%	8.2%	1.8%	3.6%	6.3%	2.8%	3.7%	
Total Units	7,537	19,252	26,789	6,034	16,231	22,265	-19.9%	-15.7%	-16.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	
(million yen)	(37,723)	(79,433)	(117,157)	(32,105)	(65,186)	(97,292)	(-14.9%)	(-17.9%)	(-17.0%)	(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.

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

			Number	of units ().	million ver	
	2012	2013	Percentage distribution			
	Jan-Mar	Jan-Mar			2013	
	450	257	-42.9%	6.0%	4.3%	
	24	24	+0.0%	0.3%	0.4%	
	137	132	-3.6%	1.8%	2.2%	
	97	117	+20.6%	1.3%	1.9%	
Units	258	273	+5.8%	3.4%	4.5%	
(million yen)	(1,117)	(1,097)	(-1.8%)	(3.0%)	(3.4%	
	79	13	-83.5%	1.0%	0.2%	
	132	201	+52.3%	1.8%	3.3%	
	236	195	-17.4%	3.1%	3.2%	
	304	130	-57.2%	4.0%	2.2%	
	976	590	-39.5%	12.9%	9.8%	
	822	527	-35.9%	10.9%	8.7%	
Units	2,549	1,656	-35.0%	33.8%	27.4%	
(million yen)	(14,585)	(10,537)	(-27.8%)	(38.7%)	(32.8%)	
	138	70	-49.3%	1.8%	1.2%	
	815	819	+0.5%	10.8%	13.6%	
	1,335	1,361	+1.9%	17.7%	22.6%	
Units	2,150	2,180	+1.4%	28.5%	36.1%	
(million yen)	(11,533)	(10,573)	(-8.3%)	(30.6%)	(32.9%	
Food products, beverages, and tobacco products				2.2%	3.6%	
	623	564	-9.5%	8.3%	9.3%	
	66	63	-4.5%	0.9%	1.0%	
	52		-100.0%	0.7%		
	1,082	752	-30.5%	14.4%	12.5%	
Units	7,537	6,034	-19.9%	100.0%	100.0%	
				28.1%	27.1%	
(million yen)	(37,723)	(32,105)	(-14.9%)	(100.0%)	(100.0%)	
				(32.2%)	(33.0%)	
Units	19,252	16,231	-15.7%	71.9%	72.9%	
(million yen)	(79,433)	(65,186)	(-17.9%)	(67.8%)	(67.0%	
Units	26,789	22,265	-16.9%	100.0%	100.0%	
Units	20,709	22,205	-10.9/0	100.070	100.07	
	Units (million yen) Units (million yen) Units (million yen) cco products Units (million yen) Units (million yen)	2012 Jan-Mar 450 24 137 97 Units 258 (million yen) (1,117) 79 132 236 304 976 822 Units 2,549 (million yen) (14,585) 1338 815 1,335 1,335 Units 2,150 (million yen) (11,533) Cco products 169 623 66 52 1,082 Units 7,537 (million yen) (37,723) Units 19,252 (million yen) (79,433)	Jan-Mar Jan-Mar 450 257 24 24 137 132 97 117 Units 258 (million yen) (1,117) 132 201 132 201 132 201 236 195 304 130 976 590 822 527 Units 2,549 976 590 822 527 Units 2,549 (million yen) (14,585) (10,537) 815 815 819 1,335 1,361 Units 2,150 (million yen) (11,533) (10,573) (10,573) 52 524 10015 7,537 6,034 66 63 52 Units 7,537 10015 19,252 0015 19,252 <	Number 2012 2013 Change from 2012 450 257 -42.9% 24 24 24 24 24 40.0% 137 132 -3.6% 97 117 +20.6% Units 258 273 +5.8% (million yen) (1,117) (1,097) (-1.8%) 79 13 -83.5% 132 201 +52.3% 236 195 -17.4% 304 130 -57.2% 976 590 -39.5% 822 527 -35.9% Units 2,549 1,656 -35.0% (million yen) (14,585) (10,537) (-27.8%) Units 2,150 2,180 +1.4% (million yen) (11,533) (10,573) (-8.3%) Cop products 169 219 +29.6% 623 564 -9.5% -9.5% 666 63	Number of units, (): 2012 2013 Change from 2012 Jan-Mar Jan-Mar From 2012 450 257 -42.9% 24 24 +0.0% 137 132 -3.6% 137 132 -3.6% 97 117 +20.6% 97 117 +20.6% (million yen) (1,117) (1,097) (-1.8%) (3.0%) 132 201 +52.3% 132 201 +52.3% 132 201 +52.3% 132 201 +52.3% 132 201 +52.3% 132 201 +52.3% 132 201 +52.3% 132 201 +52.3% 132 201 +52.3% 133 0.4 130 236 195 -17.4% 304 130 -57.2% Units 2,549 1,656	

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.