

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

Number of units, (): million yen

Production	October - December 2013	October - December 2014	Change from 2013
	25,655 (96,741)	30,220 (114,998)	+17.8% (+18.9%)

Shipments	October - December 2013			October - December 2014			Change from 2013			October - December 2013 (percentage distribution)			October - December 2014 (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	564	1,060	1,624	683	1,054	1,737	+21.1%	-0.6%	+7.0%	9.6%	5.3%	6.3%	10.0%	4.5%	5.7%
Arc welding	750	3,564	4,314	755	4,783	5,538	+0.7%	+34.2%	+28.4%	12.8%	17.8%	16.6%	11.0%	20.3%	18.2%
Spot welding	457	3,389	3,846	627	4,645	5,272	+37.2%	+37.1%	+37.1%	7.8%	16.9%	14.8%	9.2%	19.7%	17.3%
Laser welding	16	1	17	5	3	8									
Others	9	2	11	2		2									
Welding Units	1,232	6,956	8,188	1,389	9,431	10,820	+12.7%	+35.6%	+32.1%	21.0%	34.6%	31.5%	20.3%	40.0%	35.6%
(million yen)	(5,737)	(18,711)	(24,448)	(7,795)	(23,136)	(30,931)	(+35.9%)	(+23.6%)	(+26.5%)	(21.8%)	(26.6%)	(25.2%)	(25.9%)	(26.9%)	(26.7%)
Painting	33	231	264	61	213	274	+84.8%	-7.8%	+3.8%	0.6%	1.2%	1.0%	0.9%	0.9%	0.9%
Loading/unloading	283	788	1,071	381	809	1,190	+34.6%	+2.7%	+11.1%	4.8%	3.9%	4.1%	5.6%	3.4%	3.9%
Mechanical cutting	1	22	23												
Grinding/deburring	55	2	57	48	10	58									
Others	6	8	14	8	1	9									
Machining Units	345	820	1,165	437	820	1,257	+26.7%		+7.9%	5.9%	4.1%	4.5%	6.4%	3.5%	4.1%
(million yen)	(833)	(1,553)	(2,386)	(1,045)	(1,409)	(2,454)	(+25.4%)	(-9.3%)	(+2.8%)	(3.2%)	(2.2%)	(2.5%)	(3.5%)	(1.6%)	(2.1%)
Surface Mount Technology	249	1,475	1,724	279	1,841	2,120	+12.0%	+24.8%	+23.0%	4.2%	7.3%	6.6%	4.1%	7.8%	7.0%
General Assembly	1,090	1,895	2,985	1,474	2,501	3,975	+35.2%	+32.0%	+33.2%	18.5%	9.4%	11.5%	21.5%	10.6%	13.1%
Other Assembly	13	72	85	31	44	75	+138.5%	-38.9%	-11.8%	0.2%	0.4%	0.3%	0.5%	0.2%	0.2%
Bonding				2		2									
Soldering															
Sealing/glueing	7	23	30	9	35	44									
Screwing	1		1												
Others	5	49	54	20	9	29									
Assembly Units	1,103	1,967	3,070	1,505	2,545	4,050	+36.4%	+29.4%	+31.9%	18.8%	9.8%	11.8%	22.0%	10.8%	13.3%
(million yen)	(6,350)	(24,013)	(30,363)	(7,498)	(34,671)	(42,169)	(+18.1%)	(+44.4%)	(+38.9%)	(24.1%)	(34.1%)	(31.4%)	(24.9%)	(40.4%)	(36.4%)
Palletizing/depalletizing	222	568	790	213	428	641	-4.1%	-24.6%	-18.9%	3.8%	2.8%	3.0%	3.1%	1.8%	2.1%
Material handling	1,005	5,012	6,017	1,168	5,533	6,701	+16.2%	+10.4%	+11.4%	17.1%	25.0%	23.2%	17.0%	23.5%	22.0%
FPD	32	117	149	28	156	184	-12.5%	+33.3%	+23.5%	0.5%	0.6%	0.6%	0.4%	0.7%	0.6%
Semiconductor	808	1,006	1,814	696	827	1,523	-13.9%	-17.8%	-16.0%	13.7%	5.0%	7.0%	10.2%	3.5%	5.0%
Others															
Cleanroom Units	840	1,123	1,963	724	983	1,707	-13.8%	-12.5%	-13.0%	14.3%	5.6%	7.6%	10.6%	4.2%	5.6%
(million yen)	(4,230)	(4,940)	(9,171)	(3,657)	(4,676)	(8,333)	(-13.5%)	(-5.4%)	(-9.1%)	(16.0%)	(7.0%)	(9.5%)	(12.2%)	(5.4%)	(7.2%)
Other applications	285	866	1,151	393	733	1,126	+37.9%	-15.4%	-2.2%	4.8%	4.3%	4.4%	5.7%	3.1%	3.7%
Total Units	5,878	20,078	25,956	6,852	23,581	30,433	+16.6%	+17.4%	+17.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen)	(26,369)	(70,465)	(96,834)	(30,072)	(85,916)	(115,988)	(+14.0%)	(+21.9%)	(+19.8%)	(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.

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

Number of units, (): million yen

Industrial branches	2013 Oct-Dec	2014 Oct-Dec	Change from 2013	Percentage distribution	
				2013	2014
Metal products	288	403	+39.9%	4.9%	5.9%
Construction machinery	28	34	+21.4%	0.5%	0.5%
Metalworking machinery	135	161	+19.3%	2.3%	2.3%
Other machinery and equipment	132	144	+9.1%	2.2%	2.1%
Machinery and equipment	295	339	+14.9%	5.0%	4.9%
Units				(3.9%)	(4.6%)
(million yen)	(1,030)	(1,387)	(+34.7%)		
Computers	6	14	+133.3%	0.1%	0.2%
Consumer electrical machinery	98	161	+64.3%	1.7%	2.3%
Industrial electrical machinery	82	141	+72.0%	1.4%	2.1%
Info-communications equipment	157	323	+105.7%	2.7%	4.7%
VTR	0	0		0.0%	0.0%
Electronic components/devices	935	777	-16.9%	15.9%	11.3%
Other electrical machinery	589	673	+14.3%	10.0%	9.8%
Electrical machinery	1,867	2,089	+11.9%	31.8%	30.5%
Units				(38.2%)	(34.2%)
(million yen)	(10,068)	(10,281)	(+2.1%)		
Precision and optical instruments	106	86	-18.9%	1.8%	1.3%
Motor vehicles	397	649	+63.5%	6.8%	9.5%
Auto parts	1,299	1,425	+9.7%	22.1%	20.8%
Motor vehicles and auto parts	1,696	2,074	+22.3%	28.9%	30.3%
Units				(26.8%)	(28.6%)
(million yen)	(7,074)	(8,589)	(+21.4%)		
Food products, beverages, and tobacco products	200	137	-31.5%	3.4%	2.0%
Plastic products	585	712	+21.7%	10.0%	10.4%
Chemical products	93	99	+6.5%	1.6%	1.4%
Other industries	748	913	+22.1%	12.7%	13.3%
Total domestic shipments	5,878	6,852	+16.6%	100.0%	100.0%
Units				22.6%	22.5%
(million yen)	(26,369)	(30,072)	(+14.0%)	(100.0%)	(100.0%)
Export	20,078	23,581	+17.4%	77.4%	77.5%
Units				(72.8%)	(74.1%)
(million yen)	(70,465)	(85,916)	(+21.9%)		
Grand total	25,956	30,433	+17.2%	100.0%	100.0%
Units				(100.0%)	(100.0%)
(million yen)	(96,834)	(115,988)	(+19.8%)		

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.