January - March 2015 Results **Production and Shipments of Manipulators and Robots by Application Areas** [JARA Member Companies]

Number of units, (): million yen

	January - March 2014	January - March 2015	Change from 2014		
Production	30,355	34,601	+14.0%		
	(120,657)	(135,222)	(+12.1%)		

Shipments January - March 2014		January - March 2015			Change from 2014			January - March 2014 (percentage distribution)			January - March 2015 (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	906	1,303	2,209	843	1,534	2,377	-7.0%	+17.7%	+7.6%	11.7%	5.9%	7.4%	9.6%	6.1%	7.0%
Arc welding	925	4,079	5,004	1,078	4,118	5,196	+16.5%	+1.0%	+3.8%	11.9%	18.4%	16.7%	12.3%	16.4%	15.3%
Spot welding	803	3,940	4,743	898	4,153	5,051	+11.8%	+5.4%	+6.5%	10.4%	17.7%	15.8%	10.2%	16.5%	14.9%
Laser welding	12		12	7		7									
Others	5	4	9	11	6	17									
Welding Units	1,745	8,023	9,768	1,994	8,277	10,271	+14.3%	+3.2%	+5.1%	22.5%	36.1%	32.6%	22.7%	32.9%	30.3%
(million yen)	(7,894)	(20,717)	(28,612)	(9,464)	(21,021)	(30,485)	(+19.9%)	(+1.5%)	(+6.5%)	(21.9%)	(25.8%)	(24.6%)	(23.0%)	(23.6%)	(23.4%)
Painting	179	442	621	215	343	558	+20.1%	-22.4%	-10.1%	2.3%	2.0%	2.1%	2.4%	1.4%	1.6%
Loading/unloading	439	748	1,187	438	1,220	1,658	-0.2%	+63.1%	+39.7%	5.7%	3.4%	4.0%	5.0%	4.9%	4.9%
Mechanical cutting		16	16	1	1	2									
Grinding/deburring	38	4	42	49	73	122									
Others	16	4	20	8	4	12									
Machining Units	493	772	1,265	496	1,298	1,794	+0.6%	+68.1%	+41.8%	6.4%	3.5%	4.2%	5.6%	5.2%	5.3%
(million yen)	(1,192)	(1,226)	(2,418)	(1,223)	(1,887)	(3,110)	(+2.6%)	(+53.9%)	(+28.6%)	(3.3%)	(1.5%)	(2.1%)	(3.0%)	(2.1%)	(2.4%)
Surface Mount Technology	306	1,748	2,054	333	1,973	2,306	+8.8%	+12.9%	+12.3%	4.0%	7.9%	6.9%	3.8%	7.8%	6.8%
General Assembly	1,127	2,346	3,473	1,493	3,078	4,571	+32.5%	+31.2%	+31.6%	14.6%	10.6%	11.6%	17.0%	12.2%	13.5%
Other Assembly	14	40	54	14	38	52		-5.0%	-3.7%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%
Bonding															
Soldering				1		1									
Sealing/glueing	9	15	24	8	10	18									
Screwing															
Others	5	25	30	5	28	33									
Assembly Units	1,141	2,386	3,527	1,507	3,116	4,623	+32.1%	+30.6%	+31.1%	14.7%	10.7%	11.8%	17.1%	12.4%	13.6%
(million yen)	(7,219)	(29,655)	(36,875)	(9,505)	(36,096)	(45,601)	(+31.7%)	(+21.7%)	(+23.7%)	(20.0%)	(36.9%)	(31.7%)	(23.1%)	(40.5%)	(35.0%)
Palletizing/depalletizing	283	563	846	227	596	823	-19.8%	+5.9%	-2.7%	3.7%	2.5%	2.8%	2.6%	2.4%	2.4%
Material handling	1,332	5,067	6,399	1,631	5,552	7,183	+22.4%	+9.6%	+12.3%	17.2%	22.8%	21.4%	18.5%	22.1%	21.2%
FPD	55	224	279	30	99	129	-45.5%	-55.8%	-53.8%	0.7%	1.0%	0.9%	0.3%	0.4%	0.4%
Semiconductor	931	1,130	2,061	968	1,401	2,369	+4.0%	+24.0%	+14.9%	12.0%	5.1%	6.9%	11.0%	5.6%	7.0%
Others															
Cleanroom Units	986	1,354	2,340	998	1,500	2,498	+1.2%	+10.8%	+6.8%	12.7%	6.1%	7.8%	11.3%	6.0%	7.4%
(million yen)	(4,799)	(5,455)	(10,253)	(4,546)	(5,297)	(9,843)	(-5.3%)	(-2.9%)	(-4.0%)	(13.3%)	(6.8%)	(8.8%)	(11.1%)	(5.9%)	(7.6%)
Other applications	373	541	914	556	957	1,513	+49.1%	+76.9%	+65.5%	4.8%	2.4%	3.1%	6.3%	3.8%	4.5%
Total Units	7,744	22,199	29,943	8,800	25,146	33,946	+13.6%	+13.3%	+13.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen)	(36,073)	(80,369)	(116,443)	(41,087)	(89,088)	(130,175)	(+13.9%)	(+10.8%)	(+11.8%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Note)

January - March 2015 Results Shipments of Manipulators and Robots by Industrial Branches [JARA Member Companies]

Number of units, (): million yen

_	2014 2015 Change			Percentage distribution			
Industrial branches	Jan-Mar	Jan-Mar	from 2014	2014	2015		
Metal products	352	465	+32.1%	4.5%	5.3%		
Construction machinery		46	43	-6.5%	0.6%	0.5%	
Metalworking machinery		210	168	-20.0%	2.7%	1.9%	
Other machinery and equipment		211	427	+102.4%	2.7%	4.9%	
Machinery and equipment	Units	467	638	+36.6%	6.0%	7.3%	
	(million yen)	(1,535)	(2,786)	(+81.4%)	(4.3%)	(6.8%)	
Computers		9	10	+11.1%	0.1%	0.1%	
Consumer electrical machinery		169	369	+118.3%	2.2%	4.2%	
Industrial electrical machinery		81	285	+251.9%	1.0%	3.2%	
Info-communications equipment		196	170	-13.3%	2.5%	1.9%	
VTR		0	1		0.0%	0.0%	
Electronic components/devices		1,003	937	-6.6%	13.0%	10.6%	
Other electrical machinery		597	965	+61.6%	7.7%	11.0%	
Electrical machinery	Units	2,055	2,737	+33.2%	26.5%	31.1%	
	(million yen)	(11,270)	(12,868)	(+14.2%)	(31.2%)	(31.3%)	
Precision and optical instruments		93	162	+74.2%	1.2%	1.8%	
Motor vehicles		869	1,219	+40.3%	11.2%	13.9%	
Auto parts		1,661	1,859	+11.9%	21.4%	21.1%	
Motor vehicles and auto parts	Units	2,530	3,078	+21.7%	32.7%	35.0%	
	(million yen)	(11,469)	(13,813)	(+20.4%)	(31.8%)	(33.6%)	
Food products, beverages, and tobac	226	140	-38.1%	2.9%	1.6%		
Plastic products		925	302	-67.4%	11.9%	3.4%	
Chemical products		92	87	-5.4%	1.2%	1.0%	
Other industries		1,004	1,166	+16.1%	13.0%	13.3%	
Non-manufacturing industry		0	25		0.0%	0.3%	
Total domestic shipments	Units	7,744	8,800	+13.6%	100.0%	100.0%	
					25.9%	25.9%	
	(million yen)	(36,073)	(41,087)	(+13.9%)	(100.0%)	(100.0%)	
					(31.0%)	(31.6%)	
Export	Units	22,199	25,146	+13.3%	74.1%	74.1%	
	(million yen)	(80,369)	(89,088)	(+10.8%)	(69.0%)	(68.4%)	
Grand total	Units	29,943	33,946	+13.4%	100.0%	100.0%	
	(million yen)	(116,443)	(130,175)	(+11.8%)	(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.