

January - March 2012 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	January - March 2011	January - March 2012	Change from 2011
	119,649	114,241	-4.5%

Shipments	January - March 2011			January - March 2012			Change from 2011			January - March 2011 (percentage distribution)			January - March 2012 (percentage distribution)		
	Application area	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports
Plastic moulding	1,911	2,335	4,246	2,262	2,709	4,971	18.4%	16.0%	17.1%	5.8%	2.7%	3.6%	6.0%	3.4%	4.2%
Arc welding	(3,728)	(8,632)	(12,360)	(4,051)	(8,224)	(12,275)	8.7%	-4.7%	-0.7%	11.3%	10.1%	10.4%	10.7%	10.4%	10.5%
Spot welding	(2,732)	(8,559)	(11,291)	(4,348)	(10,235)	(14,583)	59.1%	19.6%	29.2%	8.3%	10.0%	9.5%	11.5%	12.9%	12.4%
Gas welding															
Laser welding	(46)	(2)	(48)	(146)	(23)	(169)									
Others	(13)		(13)	(0)	(10)	(11)									
Welding	6,520	17,193	23,713	8,545	18,493	27,038	31.1%	7.6%	14.0%	19.8%	20.0%	20.0%	22.6%	23.3%	23.1%
Painting	1,237	3,560	4,796	2,501	3,141	5,642	102.3%	-11.8%	17.6%	3.8%	4.1%	4.0%	6.6%	4.0%	4.8%
Loading/unloading	(624)	(1,285)	(1,909)	(1,140)	(1,659)	(2,798)									
Mechanical cutting	(3)		(3)	(6)		(6)									
Grinding/deburring	(139)	(20)	(159)	(279)	(79)	(358)									
Others	(48)	(9)	(57)	(117)	(9)	(126)									
Machining	814	1,314	2,128	1,542	1,746	3,288	89.4%	32.9%	54.5%	2.5%	1.5%	1.8%	4.1%	2.2%	2.8%
General Assembly	2,232	2,607	4,839	2,140	2,522	4,662	-4.1%	-3.3%	-3.7%	6.8%	3.0%	4.1%	5.7%	3.2%	4.0%
Surface Mount Technology	5,909	40,755	46,664	5,558	32,581	38,139	-5.9%	-20.1%	-18.3%	17.9%	47.5%	39.3%	14.7%	41.0%	32.6%
Other Assembly	222	96	318	142	176	318	-36.0%	83.6%	0.0%	0.7%	0.1%	0.3%	0.4%	0.2%	0.3%
(Bonding)	(153)		(153)	(43)		(43)									
(Soldering)															
(Sealing/glueing)	(37)	(54)	(92)	(54)	(92)	(147)									
(Screwing)	(2)		(2)												
(Others)	(30)	(41)	(71)	(45)	(83)	(128)									
Assembly	8,363	43,458	51,821	7,840	35,279	43,118	-6.3%	-18.8%	-16.8%	25.4%	50.7%	43.6%	20.8%	44.4%	36.8%
Palletizing/depalletizing	2,051	1,236	3,287	2,224	1,348	3,572	8.4%	9.0%	8.7%	6.2%	1.4%	2.8%	5.9%	1.7%	3.0%
Material handling	4,495	7,946	12,442	3,203	8,261	11,464	-28.7%	4.0%	-7.9%	13.6%	9.3%	10.5%	8.5%	10.4%	9.8%
(FPD)	(1,692)	(5,307)	(7,000)	(3,336)	(3,874)	(7,210)	97.2%	-27.0%	3.0%	5.1%	6.2%	5.9%	8.8%	4.9%	6.2%
(Semiconductor)	(4,576)	(2,390)	(6,966)	(4,011)	(2,626)	(6,637)	-12.3%	9.9%	-4.7%	13.9%	2.8%	5.9%	10.6%	3.3%	5.7%
(Others)	(173)		(173)												
Cleanroom	6,441	7,697	14,138	7,348	6,500	13,848	14.1%	-15.6%	-2.1%	19.6%	9.0%	11.9%	19.5%	8.2%	11.8%
Other applications	1,111	1,043	2,154	2,298	1,898	4,196	106.9%	82.0%	94.8%	3.4%	1.2%	1.8%	6.1%	2.4%	3.6%
Total	32,942	85,783	118,725	37,763	79,373	117,137	14.6%	-7.5%	-1.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Note)

These statistics include dedicated type (Surface Mount Technology / Bonding).

These statistics are 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 2012 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2011	2012	Change from 2010	Percentage distribution	
	million yen	million yen		2011	2012
Metal products	977	1,471	50.6%	3.0%	3.9%
Construction Machinery	(323)	(249)	-23.0%	1.0%	0.7%
Metalworking machinery	(207)	(456)	120.3%	0.6%	1.2%
Other machinery and equipment	(655)	(412)	-37.0%	2.0%	1.1%
Machinery and equipment	1,185	1,117	-5.7%	3.6%	3.0%
Computers	(122)	(185)	51.3%	0.4%	0.5%
Consumer electrical machinery	(769)	(211)	-72.6%	2.3%	0.6%
Industrial electrical machinery	(521)	(998)	91.5%	1.6%	2.6%
Info-communications equipment	(4,024)	(4,965)	23.4%	12.2%	13.1%
VTR	(68)	(0)		0.2%	0.0%
Electronic components/devices	(5,322)	(4,792)	-10.0%	16.2%	12.7%
Other electrical machinery	(3,531)	(3,475)	-1.6%	10.7%	9.2%
Electrical machinery	14,357	14,625	1.9%	43.6%	38.7%
Precision and optical instruments	494	424	-14.2%	1.5%	1.1%
Motor vehicles	(4,020)	(5,546)	37.9%	12.2%	14.7%
Auto parts	(4,696)	(5,987)	27.5%	14.3%	15.9%
Motor vehicles and auto parts	8,716	11,533	32.3%	26.5%	30.5%
Food products, beverages, and tobacco products	856	1,030	20.3%	2.6%	2.7%
Plastic products	1,848	2,105	13.9%	5.6%	5.6%
EMS companies (Subconstructors)	0	0		0.0%	0.0%
Non-manufacturing	542	446	-17.6%	1.6%	1.2%
Other industries	3,966	5,011	26.3%	12.0%	13.3%
Total domestic shipments	32,942	37,763	14.6%	100.0%	100.0%
				(27.7%)	(32.2%)
Export	85,783	79,373	-7.5%	(72.3%)	(67.8%)
Grand total	118,725	117,137	-1.3%	(100.0%)	(100.0%)

Note) These statistics include dedicated type (Surface Mount Technology / Bonding).
These statistics are 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.