

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

(Unit: million yen)

Production	April - June 2011	April - June 2012	Change from 2011
	125,455	114,854	-8.4%

Shipments Application area	April - June 2011			April - June 2012			Change from 2011			April - June 2011 (percentage distribution)			April - June 2012 (percentage distribution)		
	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
Plastic moulding	1,526	2,772	4,298	1,852	2,628	4,480	21.4%	-5.2%	4.2%	5.5%	2.9%	3.5%	6.4%	3.0%	3.8%
Arc welding	(3,571)	(7,881)	(11,452)	(3,901)	(7,964)	(11,865)	9.2%	1.1%	3.6%	12.8%	8.2%	9.3%	13.6%	9.1%	10.2%
Spot welding	(2,247)	(9,846)	(12,093)	(2,863)	(8,442)	(11,305)	27.4%	-14.3%	-6.5%	8.0%	10.3%	9.8%	10.0%	9.6%	9.7%
Gas welding															
Laser welding	(23)	(13)	(36)	(180)		(180)									
Others	(68)		(68)	(5)		(5)									
Welding	5,909	17,740	23,649	6,948	16,406	23,354	17.6%	-7.5%	-1.2%	21.2%	18.5%	19.1%	24.2%	18.7%	20.0%
Painting	476	742	1,218	884	1,995	2,878	85.6%	168.9%	136.3%	1.7%	0.8%	1.0%	3.1%	2.3%	2.5%
Loading/unloading	(804)	(1,218)	(2,022)	(1,267)	(2,069)	(3,336)									
Mechanical cutting					(4)	(4)									
Grinding/deburring	(190)	(59)	(249)	(203)	(17)	(220)									
Others	(48)		(48)	(66)	(4)	(70)									
Machining	1,042	1,277	2,319	1,536	2,094	3,631	47.5%	64.0%	56.5%	3.7%	1.3%	1.9%	5.3%	2.4%	3.1%
General Assembly	2,449	2,569	5,019	2,099	3,199	5,299	-14.3%	24.5%	5.6%	8.8%	2.7%	4.1%	7.3%	3.6%	4.5%
Surface Mount Technology	4,133	51,614	55,747	4,679	44,254	48,933	13.2%	-14.3%	-12.2%	14.8%	53.9%	45.1%	16.3%	50.4%	42.0%
Other Assembly	195	126	320	71	264	334	-63.6%	110.0%	4.5%	0.7%	0.1%	0.3%	0.2%	0.3%	0.3%
(Bonding)	(163)		(163)	(45)		(45)									
(Soldering)					(15)	(15)									
(Sealing/glueing)	(10)	(89)	(100)	(20)	(96)	(116)									
(Screwing)		(6)	(6)												
(Others)	(21)	(30)	(52)	(6)	(153)	(158)									
Assembly	6,777	54,309	61,086	6,849	47,717	54,566	1.1%	-12.1%	-10.7%	24.3%	56.7%	49.4%	23.8%	54.4%	46.8%
Palletizing/depalletizing	1,641	1,223	2,864	1,459	1,497	2,957	-11.1%	22.4%	3.2%	5.9%	1.3%	2.3%	5.1%	1.7%	2.5%
Material handling	2,800	7,615	10,414	2,536	8,825	11,361	-9.4%	15.9%	9.1%	10.0%	8.0%	8.4%	8.8%	10.1%	9.8%
(FPD)	(2,122)	(6,074)	(8,197)	(1,249)	(2,462)	(3,711)	-41.2%	-59.5%	-54.7%	7.6%	6.3%	6.6%	4.3%	2.8%	3.2%
(Semiconductor)	(4,593)	(2,730)	(7,323)	(2,740)	(2,643)	(5,383)	-40.3%	-3.2%	-26.5%	16.4%	2.9%	5.9%	9.5%	3.0%	4.6%
(Others)	(121)	(1)	(122)												
Cleanroom	6,836	8,805	15,641	3,989	5,105	9,093	-41.7%	-42.0%	-41.9%	24.5%	9.2%	12.6%	13.9%	5.8%	7.8%
Other applications	930	1,294	2,224	2,678	1,513	4,191	187.9%	17.0%	88.4%	3.3%	1.4%	1.8%	9.3%	1.7%	3.6%
Total	27,937	95,777	123,714	28,731	87,781	116,511	2.8%	-8.3%	-5.8%	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.

April - June 2012 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2011	2012	Change from 2011	Percentage distribution	
	million yen	million yen		2011	2012
Metal products	1,111	1,104	-0.7%	4.0%	3.8%
Construction Machinery	(237)	(555)	134.2%	0.8%	1.9%
Metalworking machinery	(238)	(367)	54.4%	0.9%	1.3%
Other machinery and equipment	(653)	(410)	-37.2%	2.3%	1.4%
Machinery and equipment	1,128	1,332	18.1%	4.0%	4.6%
Computers	(40)	(168)	319.8%	0.1%	0.6%
Consumer electrical machinery	(230)	(155)	-32.7%	0.8%	0.5%
Industrial electrical machinery	(334)	(501)	49.9%	1.2%	1.7%
Info-communications equipment	(2,930)	(2,545)	-13.1%	10.5%	8.9%
VTR	(31)	(0)	-100.0%	0.1%	0.0%
Electronic components/devices	(5,599)	(3,186)	-43.1%	20.0%	11.1%
Other electrical machinery	(3,930)	(3,449)	-12.2%	14.1%	12.0%
Electrical machinery	13,093	10,003	-23.6%	46.9%	34.8%
Precision and optical instruments	366	276	-24.6%	1.3%	1.0%
Motor vehicles	(2,846)	(4,154)	46.0%	10.2%	14.5%
Auto parts	(4,413)	(5,858)	32.7%	15.8%	20.4%
Motor vehicles and auto parts	7,260	10,013	37.9%	26.0%	34.8%
Food products, beverages, and tobacco products	903	697	-22.8%	3.2%	2.4%
Plastic products	1,506	1,759	16.8%	5.4%	6.1%
EMS companies (Subconstructors)	52	0		0.2%	0.0%
Non-manufacturing	350	290	-17.1%	1.3%	1.0%
Other industries	2,168	3,258	50.2%	7.8%	11.3%
Total domestic shipments	27,937	28,731	2.8%	100.0%	100.0%
				(22.6%)	(24.7%)
Export	95,777	87,781	-8.3%	(77.4%)	(75.3%)
Grand total	123,714	116,511	-5.8%	(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.