

April - June 2011 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	April - June 2010	April - June 2011	Change from 2010
	106,847	125,455	17.4%

Shipments	April - June 2010			April - June 2011			Change from 2010			April - June 2010 (percentage distribution)			April - June 2011 (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	1,420	1,738	3,158	1,526	2,772	4,298	7.5%	59.6%	36.1%	5.6%	2.0%	2.8%	5.5%	2.9%	3.5%
Arc welding	(2,554)	(5,713)	(8,267)	(3,571)	(7,881)	(11,452)	39.8%	38.0%	38.5%	10.1%	6.6%	7.4%	12.8%	8.2%	9.3%
Spot welding	(1,237)	(4,603)	(5,841)	(2,247)	(9,846)	(12,093)	81.6%	113.9%	107.1%	4.9%	5.3%	5.2%	8.0%	10.3%	9.8%
Gas welding															
Laser welding	(14)	(2)	(16)	(23)	(13)	(36)									
Others	(15)	(4)	(19)	(68)	(68)	(68)									
Welding	3,821	10,322	14,142	5,909	17,740	23,649	54.7%	71.9%	67.2%	15.1%	11.9%	12.6%	21.2%	18.5%	19.1%
Painting	553	695	1,248	476	742	1,218	-13.9%	6.7%	-2.4%	2.2%	0.8%	1.1%	1.7%	0.8%	1.0%
Loading/unloading	(551)	(1,046)	(1,597)	(804)	(1,218)	(2,022)									
Mechanical cutting	(3)		(3)												
Grinding/deburring	(74)	(13)	(87)	(190)	(59)	(249)									
Others	(82)	(2)	(84)	(48)		(48)									
Machining	710	1,061	1,771	1,042	1,277	2,319	46.7%	20.4%	31.0%	2.8%	1.2%	1.6%	3.7%	1.3%	1.9%
General Assembly	2,227	2,269	4,496	2,449	2,569	5,019	10.0%	13.2%	11.6%	8.8%	2.6%	4.0%	8.8%	2.7%	4.1%
Surface Mount Technology	4,842	55,355	60,197	4,133	51,614	55,747	-14.6%	-6.8%	-7.4%	19.2%	63.8%	53.7%	14.8%	53.9%	45.1%
Other Assembly	334	121	455	195	126	320	-41.8%	3.6%	-29.7%	1.3%	0.1%	0.4%	0.7%	0.1%	0.3%
(Bonding)	(64)		(64)	(163)		(163)									
(Soldering)															
(Sealing/glueing)	(6)	(70)	(76)	(10)	(89)	(100)									
(Screwing)	(3)		(3)		(6)	(6)									
(Others)	(261)	(51)	(312)	(21)	(30)	(52)									
Assembly	7,403	57,745	65,148	6,777	54,309	61,086	-8.5%	-6.0%	-6.2%	29.3%	66.5%	58.1%	24.3%	56.7%	49.4%
Palletizing/depalletizing	1,076	1,074	2,150	1,641	1,223	2,864	52.5%	13.8%	33.2%	4.3%	1.2%	1.9%	5.9%	1.3%	2.3%
Material handling	2,042	5,259	7,301	2,800	7,615	10,414	37.1%	44.8%	42.6%	8.1%	6.1%	6.5%	10.0%	8.0%	8.4%
(FPD)	(3,443)	(5,554)	(8,997)	(2,122)	(6,074)	(8,197)	-38.3%	9.4%	-8.9%	13.6%	6.4%	8.0%	7.6%	6.3%	6.6%
(Semiconductor)	(2,782)	(2,306)	(5,088)	(4,593)	(2,730)	(7,323)	65.1%	18.4%	43.9%	11.0%	2.7%	4.5%	16.4%	2.9%	5.9%
(Others)	(29)		(29)	(121)	(1)	(122)									
Cleanroom	6,254	7,860	14,114	6,836	8,805	15,641	9.3%	12.0%	10.8%	24.8%	9.1%	12.6%	24.5%	9.2%	12.6%
Other applications	1,978	1,047	3,025	930	1,294	2,224	-53.0%	23.6%	-26.5%	7.8%	1.2%	2.7%	3.3%	1.4%	1.8%
Total	25,256	86,801	112,057	27,937	95,777	123,714	10.6%	10.3%	10.4%	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 2011 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2010	2011	Change from 2010	Percentage distribution	
	million yen	million yen		2010	2011
Metal products	716	1,111	55.2%	2.8%	4.0%
Construction Machinery	(80)	(237)	198.0%	0.3%	0.8%
Metalworking machinery	(120)	(238)	97.6%	0.5%	0.9%
Other machinery and equipment	(356)	(653)	83.6%	1.4%	2.3%
Machinery and equipment	556	1,128	103.0%	2.2%	4.0%
Computers	(91)	(40)	-56.1%	0.4%	0.1%
Consumer electrical machinery	(231)	(230)	-0.5%	0.9%	0.8%
Industrial electrical machinery	(156)	(334)	113.6%	0.6%	1.2%
Info-communications equipment	(2,944)	(2,930)	-0.5%	11.7%	10.5%
VTR	(75)	(31)	-59.2%	0.3%	0.1%
Electronic components/devices	(3,555)	(5,599)	57.5%	14.1%	20.0%
Other electrical machinery	(5,441)	(3,930)	-27.8%	21.5%	14.1%
Electrical machinery	12,494	13,093	4.8%	49.5%	46.9%
Precision and optical instruments	225	366	62.6%	0.9%	1.3%
Motor vehicles	(1,515)	(2,846)	87.9%	6.0%	10.2%
Auto parts	(3,639)	(4,413)	21.3%	14.4%	15.8%
Motor vehicles and auto parts	5,154	7,260	40.9%	20.4%	26.0%
Food products, beverages, and tobacco products	437	903	106.7%	1.7%	3.2%
Plastic products	1,370	1,506	9.9%	5.4%	5.4%
EMS companies (Subconstructors)	40	52	30.0%	0.2%	0.2%
Non-manufacturing	1,963	350	-82.2%	7.8%	1.3%
Other industries	2,302	2,168	-5.8%	9.1%	7.8%
Total domestic shipments	25,256	27,937	10.6%	100.0%	100.0%
				(22.5%)	(22.6%)
Export	86,801	95,777	10.3%	(77.5%)	(77.4%)
Grand total	112,057	123,714	10.4%	(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.