

April - June 2010 Results
Production and Shipments of Manipulators and Robots by Application Areas (based on Value)
(JARA Member Companies)

(Unit: million yen)

Production	April - June 2009	April - June 2010	Change from 2009
	43,414	106,847	146.1%

Shipments	April - June 2009			April - June 2010			Change from 2009			April - June 2009 (percentage distribution)			April - June 2010 (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	1,623	4,111	5,734	1,420	1,738	3,158	-12.5%	-57.7%	-44.9%	8.3%	14.0%	11.7%	5.6%	2.0%	2.8%
Arc welding	(2,062)	(2,072)	(4,134)	(2,554)	(5,714)	(8,268)	23.9%	175.8%	100.0%	10.5%	7.0%	8.4%	10.1%	6.6%	7.4%
Spot welding	(1,749)	(2,411)	(4,160)	(1,237)	(4,603)	(5,841)	-29.2%	90.9%	40.4%	8.9%	8.2%	8.5%	4.9%	5.3%	5.2%
Gas welding															
Laser welding				(14)	(2)	(16)									
Others	(6)	(4)	(10)	(15)	(4)	(19)									
Welding	3,816	4,487	8,304	3,821	10,323	14,144	0.1%	130.1%	70.3%	19.5%	15.3%	16.9%	15.1%	11.9%	12.6%
Painting	3,616	147	3,763	553	695	1,248	-84.7%	373.2%	-66.8%	18.4%	0.5%	7.7%	2.2%	0.8%	1.1%
Loading/unloading	(228)	(234)	(462)	(551)	(1,046)	(1,597)									
Mechanical cutting				(3)		(3)									
Grinding/deburring	(66)		(66)	(74)	(13)	(87)									
Others	(25)		(25)	(82)	(2)	(84)									
Machining	319	234	553	710	1,061	1,771	122.7%	352.7%	220.1%	1.6%	0.8%	1.1%	2.8%	1.2%	1.6%
General Assembly	1,156	744	1,899	2,227	2,269	4,496	92.7%	205.1%	136.7%	5.9%	2.5%	3.9%	8.8%	2.6%	4.0%
Surface Mount Technology	2,921	10,398	13,319	4,842	55,355	60,197	65.8%	432.4%	352.0%	14.9%	35.4%	27.2%	19.2%	63.8%	53.7%
Other Assembly	77	37	113	334	121	455	336.9%	232.1%	303.0%	0.4%	0.1%	0.2%	1.3%	0.1%	0.4%
(Bonding)				(64)		(64)									
(Soldering)															
(Sealing/glueing)	(74)	(37)	(110)	(6)	(70)	(76)									
(Screwing)				(3)		(3)									
(Others)	(3)		(3)	(261)	(51)	(312)									
Assembly	4,153	11,178	15,331	7,403	57,745	65,148	78.2%	416.6%	324.9%	21.2%	38.0%	31.3%	29.3%	66.5%	58.1%
Palletizing/depalletizing	1,320	724	2,044	1,076	1,074	2,150	-18.5%	48.3%	5.2%	6.7%	2.5%	4.2%	4.3%	1.2%	1.9%
Material handling	1,375	2,751	4,126	2,042	5,259	7,301	48.5%	91.2%	77.0%	7.0%	9.4%	8.4%	8.1%	6.1%	6.5%
(FPD)	(2,588)	(5,245)	(7,833)	(3,443)	(5,554)	(8,997)	33.0%	5.9%	14.9%	13.2%	17.8%	16.0%	13.6%	6.4%	8.0%
(Semiconductor)	(423)	(174)	(597)	(2,782)	(2,306)	(5,088)	557.2%	1225.3%	751.8%	2.2%	0.6%	1.2%	11.0%	2.7%	4.5%
(Others)		(3)	(3)	(29)		(29)									
Cleanroom	3,012	5,421	8,433	6,254	7,860	14,114	107.6%	45.0%	67.4%	15.4%	18.4%	17.2%	24.8%	9.1%	12.6%
Other applications	384	358	742	1,978	1,047	3,025	415.5%	192.5%	307.9%	2.0%	1.2%	1.5%	7.8%	1.2%	2.7%
Total	19,618	29,411	49,029	25,256	86,803	112,058	28.7%	195.1%	128.6%	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 2010 Results
Shipments of Manipulators and Robots by Industrial Branches (based on Value)
(JARA Member Companies)

Industrial branches	2009	2010	Change from 2009	Percentage distribution	
	million yen	million yen		2009	2010
Metal products	500	716	43.3%	2.5%	2.8%
Construction Machinery	(127)	(80)	-37.5%	0.6%	0.3%
Metalworking machinery	(86)	(120)	40.4%	0.4%	0.5%
Other machinery and equipment	(263)	(356)	35.2%	1.3%	1.4%
Machinery and equipment	476	556	16.7%	2.4%	2.2%
Computers	(69)	(91)	31.2%	0.4%	0.4%
Consumer electrical machinery	(129)	(231)	79.0%	0.7%	0.9%
Industrial electrical machinery	(851)	(156)	-81.6%	4.3%	0.6%
Info-communications equipment	(2,105)	(2,944)	39.8%	10.7%	11.7%
VTR	(17)	(75)	341.2%	0.1%	0.3%
Electronic components/devices	(1,706)	(3,555)	108.4%	8.7%	14.1%
Other electrical machinery	(1,080)	(5,441)	403.9%	5.5%	21.5%
Electrical machinery	5,957	12,494	109.7%	30.4%	49.5%
Precision and optical instruments	132	225	70.5%	0.7%	0.9%
Motor vehicles	(5,503)	(1,515)	-72.5%	28.1%	6.0%
Auto parts	(2,996)	(3,639)	21.5%	15.3%	14.4%
Motor vehicles and auto parts	8,499	5,154	-39.4%	43.3%	20.4%
Food products, beverages, and tobacco products	542	437	-19.4%	2.8%	1.7%
Plastic products	1,483	1,370	-7.6%	7.6%	5.4%
EMS companies (Subconstructors)	74	40	-45.9%	0.4%	0.2%
Non-manufacturing	193	1,963	917.5%	1.0%	7.8%
Other industries	1,762	2,302	30.7%	9.0%	9.1%
Total domestic shipments	19,618	25,256	28.7%	100.0%	100.0%
				(40.0%)	(22.5%)
Export	29,411	86,803	195.1%	(60.0%)	(77.5%)
Grand total	49,029	112,058	128.6%	(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.