July - September 2009 Results Production and Shipments of Manipulators and Robots by Application Areas (based on Value) (JARA Member Companies)

(Unit: million yen)

Production	July - September 2008	July - September 2009	Change from 2008		
	137,907	56,280	-59.2%		

Shipments	ents July - September 2008		July - September 2009		Change from 2008			July - September 2008 (percentage distribution)			July - September 2009 (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	3,753	3,075	6,828	1,458	1,063	2,521	-61.2%	-65.4%	-63.1%	7.6%	3.2%	4.7%	7.8%	2.8%	4.4%
Arc welding	(8,198)	(6,718)	(14,916)	(2,277)	(2,236)	(4,513)	-72.2%	-66.7%	-69.7%	16.6%	7.1%	10.3%	12.2%	5.8%	7.9%
Spot welding	(4,879)	(7,816)	(12,694)	(902)	(2,334)	(3,236)	-81.5%	-70.1%	-74.5%	9.9%	8.2%	8.8%	4.8%	6.1%	5.7%
Gas welding															
Laser welding		(3)	(3)												
Others	(7)	(10)	(17)	(14)	(3)	(17)									
Welding	13,084	14,547	27,631	3,192	4,573	7,765	-75.6%	-68.6%	-71.9%	26.4%	15.3%	19.1%	17.1%	11.9%	13.6%
Loading/unloading	(1,486)	(1,647)	(3,133)	(687)	(505)	(1,192)									
Mechanical cutting	(4)		(4)												
Grinding/deburring	(225)	(11)	(236)	(52)	(5)	(57)									
Others	(18)	(4)	(22)	(40)		(40)									
Machining	1,733	1,662	3,395	779	510	1,289	-55.0%	-69.3%	-62.0%	3.5%	1.7%	2.3%	4.2%	1.3%	2.3%
General Assembly	3,543	2,162	5,705	1,119	852	1,971	-68.4%	-60.6%	-65.5%	7.2%	2.3%	3.9%	6.0%	2.2%	3.5%
Surface Mount Technology	11,491	45,541	57,031	4,032	23,441	27,473	-64.9%	-48.5%	-51.8%	23.2%	47.8%	39.4%		61.2%	48.2%
Other Assembly	190	159	349	203	32	235	7.2%	-79.9%	-32.5%	0.4%	0.2%	0.2%	1.1%	0.1%	0.4%
(Bonding)															
(Soldering)															
(Sealing/glueing)	(169)	(147)	(316)	(191)	(32)	(223)									
(Screwing)	(13)		(13)												
(Others)	(8)	(12)	(20)	(12)		(12)									
Assembly	15,223	47,861	63,085	5,354	24,325	29,679	-64.8%	-49.2%	-53.0%	30.7%	50.3%	43.6%	28.7%	63.5%	52.1%
Material handling	4,050	6,175	10,225	1,912	2,414	4,326	-52.8%	-60.9%	-57.7%	8.2%	6.5%	7.1%		6.3%	7.6%
Painting	4,113	4,750	8,863	1,011	744	1,755	-75.4%	-84.3%	-80.2%	8.3%	5.0%	6.1%		1.9%	3.1%
(FPD)	(1,653)	(13,627)	(15,280)	(1,683)	(3,023)	(4,705)	1.8%	-77.8%	-69.2%	3.3%	14.3%	10.6%	9.0%	7.9%	8.3%
(Semiconductor)	(2,149)	(841)	(2,990)	(1,531)	(688)	(2,219)	-28.8%	-18.2%	-25.8%	4.3%	0.9%	2.1%	8.2%	1.8%	3.9%
(Others)				(15)		(15)									
Cleanroom	3,802	14,468	18,270	3,229	3,711	6,939	-15.1%	-74.4%	-62.0%	7.7%	15.2%	12.6%		9.7%	12.2%
Other applications	3,755	2,679	6,433	1,750	975	2,725	-53.4%	-63.6%	-57.6%	7.6%	2.8%	4.4%		2.5%	4.8%
Total	49,512	95,217	144,729	18,685	38,314	56,999	-62.3%	-59.8%	-60.6%	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.

July - September 2009 Results Shipments of Manipulators and Robots by Industrial Branches (based on Value) (JARA Member Companies)

Industrial branches	2008	2009	Change	Percentage distribution		
industrial branches	million yen		from 2008	2008	2009	
Metal products	1,861	705	-62.1%	3.8%	3.8%	
Construction Machinery	(818)	(95)	-88.4%	1.7%	0.5%	
Metalworking machinery	(351)	(125)	-64.4%	0.7%	0.7%	
Other machinery and equipment	(1,277)	(316)	-75.3%	2.6%	1.7%	
Machinery and equipment	2,446	536	-78.1%	4.9%	2.9%	
Computers	(338)	(52)	-84.5%	0.7%	0.3%	
Consumer electrical machinery	(310)	(213)	-31.2%	0.6%	1.1%	
Industrial electrical machinery	(2,770)	(565)	-79.6%	5.6%	3.0%	
Info-communications equipment	(5,384)	(2,304)	-57.2%	10.9%	12.3%	
VTR	(90)	(44)	-51.1%	0.2%	0.2%	
Electronic components/devices	(2,951)	(2,590)	-12.2%	6.0%	13.9%	
Other electrical machinery	(3,180)	(2,465)	-22.5%	6.4%	13.2%	
Electrical machinery	15,023	8,234	-45.2%	30.3%	44.1%	
Precision and optical instruments	481	269	-44.0%	1.0%	1.4%	
Motor vehicles	(9,095)	(2,165)	-76.2%	18.4%	11.6%	
Auto parts	(12,177)	(1,975)	-83.8%	24.6%	10.6%	
Motor vehicles and auto parts	21,271	4,140	-80.5%	43.0%	22.2%	
Food products, beverages, and tobacco products	754	777	3.0%	1.5%	4.2%	
Plastic products	3,569	1,398	-60.8%	7.2%	7.5%	
EMS companies (Subconstructors)	8	8	0.0%	0.0%	0.0%	
Non-manufacturing	800	677	-15.3%	1.6%	3.6%	
Other industries	3,300	1,942	-41.1%	6.7%	10.4%	
Total domestic shipments	49,512	18,685	-62.3%	100.0%	100.0%	
·				(34.2%)	(32.8%)	
Export	95,217	38,314	-59.8%	(65.8%)	(67.2%)	
Grand total	144,729	56,999	-60.6%	(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.