

April - June 2022 Results
Production and Shipments of Manipulators and Robots by Applications
[JARA Member Companies]

Number of units, () : million yen

	April - June 2021	April - June 2022	Change from 2021
Orders	71,650 (250,223)	71,860 (242,047)	0.3% (-3.3%)
Production	59,457 (209,816)	64,251 (221,686)	8.1% (5.7%)

Shipments Applications	April - June 2021			April - June 2022			Change from 2021			April - June 2021 (percentage distribution)			April - June 2022 (percentage distribution)		
	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
Plastic moulding	664	999	1,663	616	1,018	1,634	-7.2%	1.9%	-1.7%	7.4%	2.0%	2.8%	6.7%	1.9%	2.6%
Arc welding	599	6,746	7,345	786	4,492	5,278	31.2%	-33.4%	-28.1%	6.6%	13.3%	12.3%	8.6%	8.3%	8.3%
Spot welding	569	3,202	3,771	462	4,546	5,008	-18.8%	42.0%	32.8%	6.3%	6.3%	6.3%	5.1%	8.4%	7.9%
Laser welding	2	107	109	2	187	189		74.8%	73.4%	0.0%	0.2%	0.2%	0.0%	0.3%	0.3%
Others	15	21	36	16	7	23	6.7%	-66.7%	-36.1%	0.2%	0.0%	0.1%	0.2%	0.0%	0.0%
Welding Units	1,185	10,076	11,261	1,266	9,232	10,498	6.8%	-8.4%	-6.8%	13.1%	19.9%	18.9%	13.8%	17.0%	16.6%
(million yen)	(7,243)	(18,992)	(26,235)	(6,683)	(21,742)	(28,424)	(-7.7%)	(14.5%)	(8.3%)	(18.6%)	(11.2%)	(12.6%)	(16.7%)	(12.1%)	(12.9%)
Painting	89	720	809	86	407	493	-3.4%	-43.5%	-39.1%	1.0%	1.4%	1.4%	0.9%	0.8%	0.8%
Loading/unloading	482	1,708	2,190	653	2,238	2,891	35.5%	31.0%	32.0%	5.3%	3.4%	3.7%	7.1%	4.1%	4.6%
Mechanical cutting	2		2	9		9	350.0%		350.0%	0.0%		0.0%	0.1%		0.0%
Grinding/deburring	43	128	171	33	150	183	-23.3%	17.2%	7.0%	0.5%	0.3%	0.3%	0.4%	0.3%	0.3%
Others	10	18	28	13	17	30	30.0%	-5.6%	7.1%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%
Machining Units	537	1,854	2,391	708	2,405	3,113	31.8%	29.7%	30.2%	6.0%	3.7%	4.0%	7.7%	4.4%	4.9%
(million yen)	(1,481)	(2,806)	(4,288)	(2,141)	(4,132)	(6,273)	(44.5%)	(47.2%)	(46.3%)	(3.8%)	(1.7%)	(2.1%)	(5.3%)	(2.3%)	(2.9%)
Surface Mount Technology	166	5,363	5,529	176	5,262	5,438	6.0%	-1.9%	-1.6%	1.8%	10.6%	9.3%	1.9%	9.7%	8.6%
General Assembly	1,791	9,587	11,378	1,457	7,632	9,089	-18.6%	-20.4%	-20.1%	19.9%	18.9%	19.1%	15.9%	14.1%	14.3%
Other Assembly	130	56	186	163	513	676	25.4%	816.1%	263.4%	1.4%	0.1%	0.3%	1.8%	0.9%	1.1%
Bonding					1	1								0.0%	0.0%
Soldering				1		1							0.0%		0.0%
Sealing/glueing	10	55	65	55	132	187	450.0%	140.0%	187.7%	0.1%	0.1%	0.1%	0.6%	0.2%	0.3%
Screwing															
Others	120	1	121	107	380	487	-10.8%	37900.0%	302.5%	1.3%	0.0%	0.2%	1.2%	0.7%	0.8%
Assembly Units	1,921	9,643	11,564	1,620	8,145	9,765	-15.7%	-15.5%	-15.6%	21.3%	19.0%	19.4%	17.7%	15.0%	15.4%
(million yen)	(5,459)	(8,921)	(14,380)	(5,533)	(9,321)	(14,854)	(1.4%)	(4.5%)	(3.3%)	(14.0%)	(5.2%)	(6.9%)	(13.8%)	(5.2%)	(6.8%)
Palletizing/depalletizing	429	1,107	1,536	307	985	1,292	-28.4%	-11.0%	-15.9%	4.8%	2.2%	2.6%	3.4%	1.8%	2.0%
Material handling	1,604	13,867	15,471	1,558	18,264	19,822	-2.9%	31.7%	28.1%	17.8%	27.4%	25.9%	17.0%	33.7%	31.3%
FPD	18	66	84	17	103	120	-5.6%	56.1%	42.9%	0.2%	0.1%	0.1%	0.2%	0.2%	0.2%
Semiconductor	1,885	3,049	4,934	2,238	3,978	6,216	18.7%	30.5%	26.0%	20.9%	6.0%	8.3%	24.5%	7.3%	9.8%
Others		118	118		147	147		24.6%	24.6%		0.2%	0.2%		0.3%	0.2%
Cleanroom Units	1,903	3,233	5,136	2,255	4,228	6,483	18.5%	30.8%	26.2%	21.1%	6.4%	8.6%	24.7%	7.8%	10.2%
(million yen)	(6,667)	(7,199)	(13,866)	(7,298)	(10,720)	(18,018)	(9.5%)	(48.9%)	(29.9%)	(17.1%)	(4.2%)	(6.6%)	(18.2%)	(6.0%)	(8.2%)
Other applications	339	1,059	1,398	412	1,101	1,513	21.5%	4.0%	8.2%	3.8%	2.1%	2.3%	4.5%	2.0%	2.4%
Unspecified	184	2,751	2,935	142	3,150	3,292	-22.8%	14.5%	12.2%	2.0%	5.4%	4.9%	1.6%	5.8%	5.2%
Total Units	9,021	50,672	59,693	9,146	54,197	63,343	1.4%	7.0%	6.1%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen)	(38,877)	(169,992)	(208,868)	(40,040)	(179,787)	(219,828)	(3.0%)	(5.8%)	(5.2%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)	(100.0%)

Note)

Data includes dedicated type (Surface Mount Technology / Bonding).

Data is 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 2022 Results
Shipments of Manipulators and Robots by Industries
[JARA Member Companies]

Number of units, () : million yen

Industries	2021 Apr. - Jun.	2022 Apr. - Jun.	Change from 2021	Percentage distribution	
				2021	2022
Metal products	485	561	15.7%	5.4%	6.1%
Construction and mining machinery	61	29	-52.5%	0.7%	0.3%
Metalworking machinery	158	260	64.6%	1.8%	2.8%
Other machinery and equipment	750	858	14.4%	8.3%	9.4%
Machinery and equipment Units	969	1,147	18.4%	10.7%	12.5%
(million yen)	(3,949)	(4,430)	(12.2%)	(10.2%)	(11.1%)
Electronic computers	113	4	-96.5%	1.3%	0.0%
Consumer electrical machinery	235	245	4.3%	2.6%	2.7%
Industrial electrical machinery	199	274	37.7%	2.2%	3.0%
Communication equipment	294	166	-43.5%	3.3%	1.8%
Video and audio equipment	20	13	-35.0%	0.2%	0.1%
Electronic components/devices/circuits	1,434	1,699	18.5%	15.9%	18.6%
Other electrical machinery	680	597	-12.2%	7.5%	6.5%
Electrical machinery Units	2,975	2,998	0.8%	33.0%	32.8%
(million yen)	(12,339)	(13,277)	(7.6%)	(31.7%)	(33.2%)
Precision instruments	83	18	-78.3%	0.9%	0.2%
Motor vehicles	810	769	-5.1%	9.0%	8.4%
Auto parts	1,667	1,700	2.0%	18.5%	18.6%
Motor vehicles and auto parts Units	2,477	2,469	-0.3%	27.5%	27.0%
(million yen)	(11,053)	(11,014)	(-0.4%)	(28.4%)	(27.5%)
Other transport equipment	84	41	-51.2%	0.9%	0.4%
Food products, beverages, and tobacco products	166	174	4.8%	1.8%	1.9%
Chemical products	59	93	57.6%	0.7%	1.0%
Plastic products	223	248	11.2%	2.5%	2.7%
Other industries	695	592	-14.8%	7.7%	6.5%
Non-manufacturing industry	85	105	23.5%	0.9%	1.1%
Unspecified	720	700	-2.8%	8.0%	7.7%
Total domestic shipments Units	9,021	9,146	1.4%	100.0%	100.0%
(million yen)	(38,877)	(40,040)	(3.0%)	15.1%	14.4%
Export Units	50,672	54,197	7.0%	84.9%	85.6%
(million yen)	(169,992)	(179,787)	(5.8%)	(81.4%)	(81.8%)
Grand total Units	59,693	63,343	6.1%	100.0%	100.0%
(million yen)	(208,868)	(219,828)	(5.2%)	(100.0%)	(100.0%)

Note)

Data includes dedicated type (Surface Mount Technology / Bonding).

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