

April - June 2021 Results
Production and Shipments of Manipulators and Robots by Applications
[JARA Member Companies]

Number of units, () : million yen

	April - June 2020	April - June 2021	Change from 2020
Orders	44,817 (159,908)	71,650 (250,223)	59.9% (56.5%)
Production	43,269 (158,129)	59,457 (209,816)	37.4% (32.7%)

Shipments Applications	April - June 2020			April - June 2021			Change from 2020			April - June 2020 (percentage distribution)			April - June 2021 (percentage distribution)		
	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
Plastic moulding	465	661	1,126	664	999	1,663	42.8%	51.1%	47.7%	6.3%	1.8%	2.5%	7.4%	2.0%	2.8%
Arc welding	712	2,855	3,567	599	6,746	7,345	-15.9%	136.3%	105.9%	9.6%	7.7%	8.1%	6.6%	13.3%	12.3%
Spot welding	449	3,404	3,853	569	3,202	3,771	26.7%	-5.9%	-2.1%	6.1%	9.2%	8.7%	6.3%	6.3%	6.3%
Laser welding	11	47	58	2	107	109	-81.8%	127.7%	87.9%	0.1%	0.1%	0.1%	0.0%	0.2%	0.2%
Others	21	18	39	15	21	36	-28.6%	16.7%	-7.7%	0.3%	0.0%	0.1%	0.2%	0.0%	0.1%
Welding Units	1,193	6,324	7,517	1,185	10,076	11,261	-0.7%	59.3%	49.8%	16.1%	17.1%	17.0%	13.1%	19.9%	18.9%
(million yen)	(6,401)	(14,122)	(20,523)	(7,243)	(18,992)	(26,235)	(13.2%)	(34.5%)	(27.8%)	(18.5%)	(11.4%)	(12.9%)	(18.6%)	(11.2%)	(12.6%)
Painting	46	250	296	89	720	809	93.5%	188.0%	173.3%	0.6%	0.7%	0.7%	1.0%	1.4%	1.4%
Loading/unloading	330	2,950	3,280	482	1,708	2,190	46.1%	-42.1%	-33.2%	4.5%	8.0%	7.4%	5.3%	3.4%	3.7%
Mechanical cutting	12	14	26	2		2	-83.3%	-100.0%	-92.3%	0.2%	0.0%	0.1%	0.0%		0.0%
Grinding/deburring	21	105	126	43	128	171	104.8%	21.9%	35.7%	0.3%	0.3%	0.3%	0.5%	0.3%	0.3%
Others	11	23	34	10	18	28	-9.1%	-21.7%	-17.6%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%
Machining Units	374	3,092	3,466	537	1,854	2,391	43.6%	-40.0%	-31.0%	5.0%	8.4%	7.8%	6.0%	3.7%	4.0%
(million yen)	(1,141)	(6,359)	(7,499)	(1,481)	(2,806)	(4,288)	(29.8%)	(-55.9%)	(-42.8%)	(3.3%)	(5.1%)	(4.7%)	(3.8%)	(1.7%)	(2.1%)
Surface Mount Technology	149	3,831	3,980	166	5,363	5,529	11.4%	40.0%	38.9%	2.0%	10.4%	9.0%	1.8%	10.6%	9.3%
General Assembly	1,377	7,765	9,142	1,791	9,587	11,378	30.1%	23.5%	24.5%	18.6%	21.1%	20.6%	19.9%	18.9%	19.1%
Other Assembly	126	193	319	130	56	186	3.2%	-71.0%	-41.7%	1.7%	0.5%	0.7%	1.4%	0.1%	0.3%
Bonding		1	1					-100.0%	-100.0%			0.0%			
Soldering															
Sealing/glueing	29	144	173	10	55	65	-65.5%	-61.8%	-62.4%	0.4%	0.4%	0.4%	0.1%	0.1%	0.1%
Screwing	5		5				-100.0%		-100.0%	0.1%		0.0%			
Others	92	48	140	120	1	121	30.4%	-97.9%	-13.6%	1.2%	0.1%	0.3%	1.3%	0.0%	0.2%
Assembly Units	1,503	7,958	9,461	1,921	9,643	11,564	27.8%	21.2%	22.2%	20.3%	21.6%	21.4%	21.3%	19.0%	19.4%
(million yen)	(4,817)	(7,628)	(12,445)	(5,459)	(8,921)	(14,380)	(13.3%)	(16.9%)	(15.5%)	(13.9%)	(6.1%)	(7.8%)	(14.0%)	(5.2%)	(6.9%)
Palletizing/depalletizing	392	535	927	429	1,107	1,536	9.4%	106.9%	65.7%	5.3%	1.5%	2.1%	4.8%	2.2%	2.6%
Material handling	1,655	8,073	9,728	1,604	13,867	15,471	-3.1%	71.8%	59.0%	22.3%	21.9%	22.0%	17.8%	27.4%	25.9%
FPD	15	73	88	18	66	84	20.0%	-9.6%	-4.5%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%
Semiconductor	1,165	2,392	3,557	1,885	3,049	4,934	61.8%	27.5%	38.7%	15.7%	6.5%	8.0%	20.9%	6.0%	8.3%
Others		70	70		118	118		68.6%	68.6%		0.2%	0.2%		0.2%	0.2%
Cleanroom Units	1,180	2,535	3,715	1,903	3,233	5,136	61.3%	27.5%	38.3%	15.9%	6.9%	8.4%	21.1%	6.4%	8.6%
(million yen)	(3,993)	(6,188)	(10,180)	(6,667)	(7,199)	(13,866)	(67.0%)	(16.3%)	(36.2%)	(11.5%)	(5.0%)	(6.4%)	(17.1%)	(4.2%)	(6.6%)
Other applications	357	1,257	1,614	339	1,059	1,398	-5.0%	-15.8%	-13.4%	4.8%	3.4%	3.6%	3.8%	2.1%	2.3%
Unspecified	93	2,365	2,458	184	2,751	2,935	97.8%	16.3%	19.4%	1.3%	6.4%	5.6%	2.0%	5.4%	4.9%
Total Units	7,407	36,881	44,288	9,021	50,672	59,693	21.8%	37.4%	34.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen)	(34,584)	(124,130)	(158,714)	(38,877)	(169,992)	(208,868)	(12.4%)	(36.9%)	(31.6%)	(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 2021 Results
Shipments of Manipulators and Robots by Industries
[JARA Member Companies]

Number of units, () : million yen

Industries	2020 Apr. - Jun.	2021 Apr. - Jun.	Change from 2020	Percentage distribution	
				2020	2021
Metal products	491	485	-1.2%	6.6%	5.4%
Construction and mining machinery	25	61	144.0%	0.3%	0.7%
Metalworking machinery	146	158	8.2%	2.0%	1.8%
Other machinery and equipment	649	750	15.6%	8.8%	8.3%
Machinery and equipment Units	820	969	18.2%	11.1%	10.7%
(million yen)	(3,685)	(3,949)	(7.2%)	(10.7%)	(10.2%)
Electronic computers	12	113	841.7%	0.2%	1.3%
Consumer electrical machinery	182	235	29.1%	2.5%	2.6%
Industrial electrical machinery	85	199	134.1%	1.1%	2.2%
Communication equipment	172	294	70.9%	2.3%	3.3%
Video and audio equipment	5	20	300.0%	0.1%	0.2%
Electronic components/devices/circuits	940	1,434	52.6%	12.7%	15.9%
Other electrical machinery	493	680	37.9%	6.7%	7.5%
Electrical machinery Units	1,889	2,975	57.5%	25.5%	33.0%
(million yen)	(8,840)	(12,339)	(39.6%)	(25.6%)	(31.7%)
Precision instruments	47	83	76.6%	0.6%	0.9%
Motor vehicles	874	810	-7.3%	11.8%	9.0%
Auto parts	1,648	1,667	1.2%	22.2%	18.5%
Motor vehicles and auto parts Units	2,522	2,477	-1.8%	34.0%	27.5%
(million yen)	(11,053)	(11,053)	(0.0%)	(32.0%)	(28.4%)
Other transport equipment	26	84	223.1%	0.4%	0.9%
Food products, beverages, and tobacco products	200	166	-17.0%	2.7%	1.8%
Chemical products	76	59	-22.4%	1.0%	0.7%
Plastic products	207	223	7.7%	2.8%	2.5%
Other industries	509	695	36.5%	6.9%	7.7%
Non-manufacturing industry	72	85	18.1%	1.0%	0.9%
Unspecified	548	720	31.4%	7.4%	8.0%
Total domestic shipments Units	7,407	9,021	21.8%	100.0%	100.0%
(million yen)	(34,584)	(38,877)	(12.4%)	(16.7%)	(15.1%)
Export Units	36,881	50,672	37.4%	(83.3%)	(84.9%)
(million yen)	(124,130)	(169,992)	(36.9%)	(78.2%)	(81.4%)
Grand total Units	44,288	59,693	34.8%	(100.0%)	(100.0%)
(million yen)	(158,714)	(208,868)	(31.6%)	(100.0%)	(100.0%)

Note)

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