

April - June 2018 Results
Production and Shipments of Manipulators and Robots by Applications
[JARA Member Companies]

Number of units, () : million yen

	April - June 2017	April - June 2018	Change from 2017
Orders	56,795 (204,899)	60,577 (212,597)	6.7% (3.8%)
Production	55,472 (173,338)	57,162 (184,095)	3.0% (6.2%)

Shipments Applications	April - June 2017			April - June 2018			Change from 2017			April - June 2017 (percentage distribution)			April - June 2018 (percentage distribution)		
	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
Plastic moulding	738	1,416	2,154	838	1,625	2,463	13.6%	14.8%	14.3%	8.6%	3.0%	3.9%	8.3%	3.5%	4.3%
Arc welding	683	4,333	5,016	1,212	5,160	6,372	77.5%	19.1%	27.0%	7.9%	9.3%	9.1%	12.0%	11.0%	11.2%
Spot welding	681	6,031	6,712	592	4,705	5,297	-13.1%	-22.0%	-21.1%	7.9%	13.0%	12.2%	5.9%	10.1%	9.3%
Laser welding	2	1	3	1	4	5	-50.0%	300.0%	66.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Others	10	23	33	9	14	23	-10.0%	-39.1%	-30.3%	0.1%	0.0%	0.1%	0.1%	0.0%	0.0%
Welding Units	1,376	10,388	11,764	1,814	9,883	11,697	31.8%	-4.9%	-0.6%	16.0%	22.3%	21.3%	18.0%	21.2%	20.6%
(million yen)	(7,376)	(25,138)	(32,514)	(8,698)	(25,009)	(33,707)	(17.9%)	(-0.5%)	(3.7%)	(18.1%)	(18.5%)	(18.4%)	(20.1%)	(17.3%)	(17.9%)
Painting	198	415	613	78	479	557	-60.6%	15.4%	-9.1%	2.3%	0.9%	1.1%	0.8%	1.0%	1.0%
Loading/unloading	461	2,955	3,416	488	2,051	2,539	5.9%	-30.6%	-25.7%	5.4%	6.4%	6.2%	4.8%	4.4%	4.5%
Mechanical cutting	9	2	11							0.1%	0.0%	0.0%			
Grinding/deburring	80	209	289	37	14	51	-53.8%	-93.3%	-82.4%	0.9%	0.4%	0.5%	0.4%	0.0%	0.1%
Others	8	9	17	9	4	13	12.5%	-55.6%	-23.5%	0.1%	0.0%	0.0%	0.1%	0.0%	0.0%
Machining Units	558	3,175	3,733	534	2,069	2,603	-4.3%	-34.8%	-30.3%	6.5%	6.8%	6.8%	5.3%	4.4%	4.6%
(million yen)	(1,560)	(3,713)	(5,273)	(1,499)	(2,652)	(4,151)	(-3.9%)	(-28.6%)	(-21.3%)	(3.8%)	(2.7%)	(3.0%)	(3.5%)	(1.8%)	(2.2%)
Surface Mount Technology	434	3,354	3,788	369	3,891	4,260	-15.0%	16.0%	12.5%	5.0%	7.2%	6.9%	3.7%	8.3%	7.5%
General Assembly	1,617	9,599	11,216	1,723	11,633	13,356	6.6%	21.2%	19.1%	18.8%	20.6%	20.3%	17.1%	24.9%	23.5%
Other Assembly	10	352	362	17	199	216	70.0%	-43.5%	-40.3%	0.1%	0.8%	0.7%	0.2%	0.4%	0.4%
Bonding				2		2							0.0%		0.0%
Soldering				4	89	93	-50.0%	-62.6%	-62.2%	0.1%	0.5%	0.4%	0.0%	0.2%	0.2%
Sealing/glueing	8	238	246	4						0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Screwing	1	3	4	5	2	7	400.0%	-33.3%	75.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Others	1	111	112	6	108	114	500.0%	-2.7%	1.8%	0.0%	0.2%	0.2%	0.1%	0.2%	0.2%
Assembly Units	1,627	9,951	11,578	1,740	11,832	13,572	6.9%	18.9%	17.2%	18.9%	21.4%	21.0%	17.3%	25.3%	23.9%
(million yen)	(3,308)	(9,948)	(13,255)	(3,464)	(11,384)	(14,848)	(4.7%)	(14.4%)	(12.0%)	(8.1%)	(7.3%)	(7.5%)	(8.0%)	(7.9%)	(7.9%)
Palletizing/depalletizing	178	533	711	212	514	726	19.1%	-3.6%	2.1%	2.1%	1.1%	1.3%	2.1%	1.1%	1.3%
Material handling	1,608	13,570	15,178	2,037	12,270	14,307	26.7%	-9.6%	-5.7%	18.7%	29.2%	27.5%	20.2%	26.3%	25.2%
FPD	37	167	204	50	216	266	35.1%	29.3%	30.4%	0.4%	0.4%	0.4%	0.5%	0.5%	0.5%
Semiconductor	1,313	2,730	4,043	1,502	2,631	4,133	14.4%	-3.6%	2.2%	15.2%	5.9%	7.3%	14.9%	5.6%	7.3%
Others	5		5							0.1%		0.0%			
Cleanroom Units	1,355	2,897	4,252	1,552	2,847	4,399	14.5%	-1.7%	3.5%	15.7%	6.2%	7.7%	15.4%	6.1%	7.7%
(million yen)	(6,502)	(8,256)	(14,759)	(5,701)	(6,797)	(12,497)	(-12.3%)	(-17.7%)	(-15.3%)	(15.9%)	(6.1%)	(8.4%)	(13.2%)	(4.7%)	(6.6%)
Other applications	541	828	1,369	893	1,301	2,194	65.1%	57.1%	60.3%	6.3%	1.8%	2.5%	8.9%	2.8%	3.9%
Total Units	8,613	46,527	55,140	10,067	46,711	56,778	16.9%	0.4%	3.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(million yen)	(40,823)	(135,722)	(176,545)	(43,336)	(144,680)	(188,016)	(6.2%)	(6.6%)	(6.5%)	(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.

