

2024 Results
Orders, Production and Shipments of Manipulators and Robots by Applications
[JARA Members and Non-members]

Number of units, () : million yen

CY	2023	2024	Change from 2023
Orders	198,864 (843,440)	182,464 (832,132)	-8.2% (-1.3%)
Production	220,581 (891,556)	176,215 (781,075)	-20.1% (-12.4%)

Shipments Applications	2023			2024			Change from 2023			2023 (percentage distribution)			2024 (percentage distribution)		
	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total	Domestic shipments	Exports	Total
Plastic moulding	4,605	3,405	8,010	3,184	3,648	6,832	-30.9%	7.1%	-14.7%	9.5%	1.9%	3.5%	6.9%	2.7%	3.8%
Arc welding	3,023	15,027	18,050	3,211	14,012	17,223	6.2%	-6.8%	-4.6%	6.3%	8.4%	7.9%	6.9%	10.4%	9.5%
Spot welding	2,305	21,060	23,365	2,664	11,040	13,704	15.6%	-47.6%	-41.3%	4.8%	11.8%	10.3%	5.8%	8.2%	7.6%
Laser welding	20	1,252	1,272	51	458	509	155.0%	-63.4%	-60.0%	0.0%	0.7%	0.6%	0.1%	0.3%	0.3%
Others	46	61	107	44	53	97	-4.3%	-13.1%	-9.3%	0.1%	0.0%	0.0%	0.1%	0.0%	0.1%
Welding Units (million yen)	5,394 (27,178)	37,400 (94,049)	42,794 (121,227)	5,970 (29,414)	25,563 (64,162)	31,533 (93,576)	10.7% (8.2%)	-31.6% (-31.8%)	-26.3% (-22.8%)	11.2% (12.2%)	20.9% (13.4%)	18.8% (13.1%)	12.9% (12.9%)	18.9% (10.8%)	17.4% (11.3%)
Painting	562	2,581	3,143	516	1,588	2,104	-8.2%	-38.5%	-33.1%	1.2%	1.4%	1.4%	1.1%	1.2%	1.2%
Loading/unloading	1,818	15,145	16,963	1,209	10,213	11,422	-33.5%	-32.6%	-32.7%	3.8%	8.5%	7.5%	2.6%	7.6%	6.3%
Mechanical cutting	26	6	32	12	4	16	-53.8%	-33.3%	-50.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Grinding/deburring	175	641	816	154	440	594	-12.0%	-31.4%	-27.2%	0.4%	0.4%	0.4%	0.3%	0.3%	0.3%
Others	44	98	142	74	105	179	68.2%	7.1%	26.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.1%
Machining Units (million yen)	2,063 (7,308)	15,890 (28,867)	17,953 (36,175)	1,449 (5,988)	10,762 (20,558)	12,211 (26,547)	-29.8% (-18.1%)	-32.3% (-28.8%)	-32.0% (-26.6%)	4.3% (3.3%)	8.9% (4.1%)	7.9% (3.9%)	3.1% (2.6%)	8.0% (3.4%)	6.7% (3.2%)
Surface Mount Technology	1,071	11,338	12,409	980	12,809	13,789	-8.5%	13.0%	11.1%	2.2%	6.3%	5.5%	2.1%	9.5%	7.6%
General Assembly	6,848	16,945	23,793	6,741	18,260	25,001	-1.6%	7.8%	5.1%	14.2%	9.5%	10.5%	14.6%	13.5%	13.8%
Soldering	3	0	3	3	1	4	0.0%		33.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Sealing/glueing	145	1,369	1,514	238	719	957	64.1%	-47.5%	-36.8%	0.3%	0.8%	0.7%	0.5%	0.5%	0.5%
Screwing	46	7	53	131	81	212	184.8%	1057.1%	300.0%	0.1%	0.0%	0.0%	0.3%	0.1%	0.1%
Others	442	437	879	480	430	910	8.6%	-1.6%	3.5%	0.9%	0.2%	0.4%	1.0%	0.3%	0.5%
Assembly Units (million yen)	7,484 (25,165)	18,758 (26,175)	26,242 (51,340)	7,593 (25,961)	19,491 (24,197)	27,084 (50,158)	1.5% (3.2%)	3.9% (-7.6%)	3.2% (-2.3%)	15.5% (11.3%)	10.5% (3.7%)	11.5% (5.6%)	16.4% (11.3%)	14.4% (4.1%)	14.9% (6.1%)
Palletizing/depalletizing	1,364	3,126	4,490	1,443	1,850	3,293	5.8%	-40.8%	-26.7%	2.8%	1.7%	2.0%	3.1%	1.4%	1.8%
Material handling	8,031	55,031	63,062	8,696	27,763	36,459	8.3%	-49.6%	-42.2%	16.6%	30.7%	27.7%	18.8%	20.5%	20.1%
FPD	416	1,090	1,506	407	1,118	1,525	-2.2%	2.6%	1.3%	0.9%	0.6%	0.7%	0.9%	0.8%	0.8%
Semiconductor	11,944	12,874	24,818	11,229	13,633	24,862	-6.0%	5.9%	0.2%	24.7%	7.2%	10.9%	24.3%	10.1%	13.7%
Others	0	253	253	0	373	373		47.4%	47.4%	0.0%	0.1%	0.1%	0.0%	0.3%	0.2%
Cleanroom Units (million yen)	12,360 (44,440)	14,217 (64,731)	26,577 (109,171)	11,636 (42,802)	15,124 (78,311)	26,760 (121,113)	-5.9% (-3.7%)	6.4% (21.0%)	0.7% (10.9%)	25.6% (20.0%)	7.9% (9.2%)	11.7% (11.8%)	25.1% (18.7%)	11.2% (13.1%)	14.8% (14.7%)
Other applications	3,770	10,199	13,969	3,482	7,335	10,817	-7.6%	-28.1%	-22.6%	7.8%	5.7%	6.1%	7.5%	5.4%	6.0%
Unspecified	1,564	7,163	8,727	1,318	9,212	10,530	-15.7%	28.6%	20.7%	3.2%	4.0%	3.8%	2.8%	6.8%	5.8%
Total Units (million yen)	48,268 (222,481)	179,108 (700,148)	227,376 (922,629)	46,267 (228,902)	135,145 (596,326)	181,412 (825,228)	-4.1% (2.9%)	-24.5% (-14.8%)	-20.2% (-10.6%)	100.0% (100.0%)	100.0% (100.0%)	100.0% (100.0%)	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.

2024 Results
Shipments of Manipulators and Robots by Industries
[JARA Members and Non-members]

Number of units, () : million yen

Industries	2023	2024	Change from 2023	Percentage distribution	
				2023	2024
Metal products	2,724	2,581	-5.2%	5.6%	5.6%
Construction and mining machinery	153	176	15.0%	0.3%	0.4%
Metalworking machinery	681	645	-5.3%	1.4%	1.4%
Other machinery and equipment	4,080	4,029	-1.3%	8.5%	8.7%
Machinery and equipment Units	4,914	4,850	-1.3%	10.2%	10.5%
(million yen)	(23,876)	(24,194)	(1.3%)	(10.7%)	(10.6%)
Electronic computers	32	29	-9.4%	0.1%	0.1%
Consumer electrical machinery	996	855	-14.2%	2.1%	1.8%
Industrial electrical machinery	1,511	1,009	-33.2%	3.1%	2.2%
Communication equipment	890	1,324	48.8%	1.8%	2.9%
Video and audio equipment	49	55	12.2%	0.1%	0.1%
Electronic components/devices/circuits	10,895	10,657	-2.2%	22.6%	23.0%
Other electrical machinery	2,644	2,371	-10.3%	5.5%	5.1%
Electrical machinery Units	17,017	16,300	-4.2%	35.3%	35.2%
(million yen)	(82,447)	(80,020)	(-2.9%)	(37.1%)	(35.0%)
Precision instruments	222	244	9.9%	0.5%	0.5%
Motor vehicles	3,790	3,933	3.8%	7.9%	8.5%
Auto parts	7,980	8,988	12.6%	16.5%	19.4%
Motor vehicles and auto parts Units	11,770	12,921	9.8%	24.4%	27.9%
(million yen)	(54,824)	(61,161)	(11.6%)	(24.6%)	(26.7%)
Other transport equipment	253	189	-25.3%	0.5%	0.4%
Food products, beverages, and tobacco products	897	852	-5.0%	1.9%	1.8%
Chemical products	338	435	28.7%	0.7%	0.9%
Plastic products	1,040	923	-11.3%	2.2%	2.0%
Other industries	2,876	2,833	-1.5%	6.0%	6.1%
Non-manufacturing industry	298	269	-9.7%	0.6%	0.6%
Unspecified	5,919	3,870	-34.6%	12.3%	8.4%
Total domestic shipments Units	48,268	46,267	-4.1%	100.0%	100.0%
(million yen)	0	0	+0.0%	21.2%	25.5%
	(222,481)	(228,902)	(2.9%)	(100.0%)	(100.0%)
	0	0	+0.0%	(24.1%)	(27.7%)
Export Units	179,108	135,145	-24.5%	78.8%	74.5%
(million yen)	(700,148)	(596,326)	(-14.8%)	(75.9%)	(72.3%)
Grand total Units	227,376	181,412	-20.2%	100.0%	100.0%
(million yen)	(922,629)	(825,228)	(-10.6%)	(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.