

**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
<b>Plastic moulding</b>	<b>4,605</b>	<b>3,405</b>	<b>8,010</b>	<b>3,184</b>	<b>3,648</b>	<b>6,832</b>	<b>-30.9%</b>	<b>7.1%</b>	<b>-14.7%</b>	<b>9.5%</b>	<b>1.9%</b>	<b>3.5%</b>	<b>6.9%</b>	<b>2.7%</b>	<b>3.8%</b>
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%
<b>Welding</b> Units	<b>5,394</b>	<b>37,400</b>	<b>42,794</b>	<b>5,970</b>	<b>25,563</b>	<b>31,533</b>	<b>10.7%</b>	<b>-31.6%</b>	<b>-26.3%</b>	<b>11.2%</b>	<b>20.9%</b>	<b>18.8%</b>	<b>12.9%</b>	<b>18.9%</b>	<b>17.4%</b>
(million yen)	<b>(27,178)</b>	<b>(94,049)</b>	<b>(121,227)</b>	<b>(29,414)</b>	<b>(64,162)</b>	<b>(93,576)</b>	<b>(8.2%)</b>	<b>(-31.8%)</b>	<b>(-22.8%)</b>	<b>(12.2%)</b>	<b>(13.4%)</b>	<b>(13.1%)</b>	<b>(12.9%)</b>	<b>(10.8%)</b>	<b>(11.3%)</b>
<b>Painting</b>	<b>562</b>	<b>2,581</b>	<b>3,143</b>	<b>516</b>	<b>1,588</b>	<b>2,104</b>	<b>-8.2%</b>	<b>-38.5%</b>	<b>-33.1%</b>	<b>1.2%</b>	<b>1.4%</b>	<b>1.4%</b>	<b>1.1%</b>	<b>1.2%</b>	<b>1.2%</b>
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%
<b>Machining</b> Units	<b>2,063</b>	<b>15,890</b>	<b>17,953</b>	<b>1,449</b>	<b>10,762</b>	<b>12,211</b>	<b>-29.8%</b>	<b>-32.3%</b>	<b>-32.0%</b>	<b>4.3%</b>	<b>8.9%</b>	<b>7.9%</b>	<b>3.1%</b>	<b>8.0%</b>	<b>6.7%</b>
(million yen)	<b>(7,308)</b>	<b>(28,867)</b>	<b>(36,175)</b>	<b>(5,988)</b>	<b>(20,558)</b>	<b>(26,547)</b>	<b>(-18.1%)</b>	<b>(-28.8%)</b>	<b>(-26.6%)</b>	<b>(3.3%)</b>	<b>(4.1%)</b>	<b>(3.9%)</b>	<b>(2.6%)</b>	<b>(3.4%)</b>	<b>(3.2%)</b>
<b>Surface Mount Technology</b>	<b>1,071</b>	<b>11,338</b>	<b>12,409</b>	<b>980</b>	<b>12,809</b>	<b>13,789</b>	<b>-8.5%</b>	<b>13.0%</b>	<b>11.1%</b>	<b>2.2%</b>	<b>6.3%</b>	<b>5.5%</b>	<b>2.1%</b>	<b>9.5%</b>	<b>7.6%</b>
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%
<b>Assembly</b> Units	<b>7,484</b>	<b>18,758</b>	<b>26,242</b>	<b>7,593</b>	<b>19,491</b>	<b>27,084</b>	<b>1.5%</b>	<b>3.9%</b>	<b>3.2%</b>	<b>15.5%</b>	<b>10.5%</b>	<b>11.5%</b>	<b>16.4%</b>	<b>14.4%</b>	<b>14.9%</b>
(million yen)	<b>(25,165)</b>	<b>(26,175)</b>	<b>(51,340)</b>	<b>(25,961)</b>	<b>(26,066)</b>	<b>(52,027)</b>	<b>(3.2%)</b>	<b>(-0.4%)</b>	<b>(1.3%)</b>	<b>(11.3%)</b>	<b>(3.7%)</b>	<b>(5.6%)</b>	<b>(11.3%)</b>	<b>(4.4%)</b>	<b>(6.3%)</b>
<b>Palletizing/depalletizing</b>	<b>1,364</b>	<b>3,126</b>	<b>4,490</b>	<b>1,443</b>	<b>1,850</b>	<b>3,293</b>	<b>5.8%</b>	<b>-40.8%</b>	<b>-26.7%</b>	<b>2.8%</b>	<b>1.7%</b>	<b>2.0%</b>	<b>3.1%</b>	<b>1.4%</b>	<b>1.8%</b>
<b>Material handling</b>	<b>8,031</b>	<b>55,031</b>	<b>63,062</b>	<b>8,696</b>	<b>27,763</b>	<b>36,459</b>	<b>8.3%</b>	<b>-49.6%</b>	<b>-42.2%</b>	<b>16.6%</b>	<b>30.7%</b>	<b>27.7%</b>	<b>18.8%</b>	<b>20.5%</b>	<b>20.1%</b>
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%
<b>Cleanroom</b> Units	<b>12,360</b>	<b>14,217</b>	<b>26,577</b>	<b>11,636</b>	<b>15,124</b>	<b>26,760</b>	<b>-5.9%</b>	<b>6.4%</b>	<b>0.7%</b>	<b>25.6%</b>	<b>7.9%</b>	<b>11.7%</b>	<b>25.1%</b>	<b>11.2%</b>	<b>14.8%</b>
(million yen)	<b>(44,440)</b>	<b>(64,731)</b>	<b>(109,171)</b>	<b>(42,802)</b>	<b>(76,426)</b>	<b>(119,228)</b>	<b>(-3.7%)</b>	<b>(18.1%)</b>	<b>(9.2%)</b>	<b>(20.0%)</b>	<b>(9.2%)</b>	<b>(11.8%)</b>	<b>(18.7%)</b>	<b>(12.8%)</b>	<b>(14.4%)</b>
<b>Other applications</b>	<b>3,770</b>	<b>10,199</b>	<b>13,969</b>	<b>3,482</b>	<b>7,335</b>	<b>10,817</b>	<b>-7.6%</b>	<b>-28.1%</b>	<b>-22.6%</b>	<b>7.8%</b>	<b>5.7%</b>	<b>6.1%</b>	<b>7.5%</b>	<b>5.4%</b>	<b>6.0%</b>
<b>Unspecified</b>	<b>1,564</b>	<b>7,163</b>	<b>8,727</b>	<b>1,318</b>	<b>9,212</b>	<b>10,530</b>	<b>-15.7%</b>	<b>28.6%</b>	<b>20.7%</b>	<b>3.2%</b>	<b>4.0%</b>	<b>3.8%</b>	<b>2.8%</b>	<b>6.8%</b>	<b>5.8%</b>
<b>Total</b> Units	<b>48,268</b>	<b>179,108</b>	<b>227,376</b>	<b>46,267</b>	<b>135,145</b>	<b>181,412</b>	<b>-4.1%</b>	<b>-24.5%</b>	<b>-20.2%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
(million yen)	<b>(222,481)</b>	<b>(700,148)</b>	<b>(922,629)</b>	<b>(228,902)</b>	<b>(596,327)</b>	<b>(825,229)</b>	<b>(2.9%)</b>	<b>(-14.8%)</b>	<b>(-10.6%)</b>	<b>(100.0%)</b>	<b>(100.0%)</b>	<b>(100.0%)</b>	<b>(100.0%)</b>	<b>(100.0%)</b>	<b>(100.0%)</b>

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.

