

The Current Condition of the Japanese Machine Tool Industry

Monthly Machine Tool Orders (March 2023)

The total value of machine tool orders in March was 141.02 billion yen. This was an increase of 13.6% compared to February 2023 and marked the first month of month-on-month growth in three months. However, this figure represented a decrease of 15.2% compared to the same month of the previous year and marked the third consecutive month of year-on-year decline. The total amount of orders topped 140 billion yen for the first time in three months and exceeded 100 billion yen for 26 consecutive months.

Orders in March remained firm, despite a slightly weak market, mainly because of the end of the fiscal year. We will continue to monitor monetary and financial trends and the outlook for the global economy.

Domestic orders rose by 26.8% over February, amounting to 49.37 billion yen. This marked the first month of month-on-month growth in two months. In contrast, this figure was a decrease of 18.0% from the same month of the previous year and marked the seventh consecutive month of year-on-year decline. Looking at major industries, orders compared to February rose by 29.8% in industrial machinery, by 11.3% in motor vehicles, by 10.5% in electrical & precision machinery, and by 30.4% in aircraft, shipbuilding & transport equipment.

Foreign orders rose by 7.6% over February to 91.65 billion yen, marked the first month of month-on-month growth in three months. On the other hand, foreign orders showed a decrease of 13.6% from the same month of the previous year, and this marked the third consecutive month of year-on-year decline. By region, orders from Asia rose by 4.7% from February to 41.69 billion yen. This was a decrease of 19.6% from the same month of the previous year. Orders from Europe rose by 1.8% over February to 19.77 billion yen. This was an increase of 1.2% over the same month of the previous year. Orders from North America rose by 20.1% over February, amounting to 27.95 billion yen. This figure was a decrease of 14.9% from the same month of the previous year.

JAPAN MACHINE TOOL BUILDERS' ASSOCIATION

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Main Statistics of Metal Cutting Machine Tools

Value in Millions of Yen

Period	ORDERS										PRODUCTION										SALES				INVENTORY		EXPORTS		IMPORTS		EMPLOYEES		WHOLE-SALE PRICE INDEX
	Total		Domestic		Foreign		Sales		Value		Order Backlog		Units		Weight		Value		Units		Weight		Value		%		Value		%		No. of Persons		
	Value	%	Value	%	Value	%	Value	%	Value	%	Value	%	Units	ton	Units	ton	Value	Units	Value	ton	Value	%	Value	%	Value	%	Value	%	Persons				
C.Y.	1,436,970	105.4	733,009	98.2	703,961	114.2	1,407,258	684,266	492,096	1,211,230	109.1	94,383	26,930	1,232,261	6,963	921,456	113.0	135,649	126.2	23,503	101.1	23,503	101.1	821,456	113.0	135,649	126.2	23,503	101.1	23,503	101.1		
2006	1,589,991	110.6	726,424	99.1	863,567	122.7	1,522,682	758,815	515,268	1,303,164	107.6	98,752	32,006	1,317,226	9,862	892,032	96.8	72,601	53.5	24,624	100.6	24,624	100.6	892,032	96.8	72,601	53.5	24,624	100.6	24,624	100.6		
2007	1,301,147	81.8	566,820	78.0	734,327	85.0	1,472,029	574,383	180,225	1,249,184	95.9	88,319	31,685	1,267,372	11,436	874,723	98.1	60,226	83.0	25,323	101.5	25,323	101.5	874,723	98.1	60,226	83.0	25,323	101.5	25,323	101.5		
2008	411,809	31.6	159,648	28.2	252,161	34.3	596,920	382,592	28,281	486,283	38.9	29,894	22,656	514,793	10,464	321,399	36.7	28,717	47.7	24,542	100.2	24,542	100.2	321,399	36.7	28,717	47.7	24,542	100.2	24,542	100.2		
2010	978,622	237.6	307,527	192.6	671,095	266.1	851,272	508,446	302,376	813,002	167.2	67,954	24,489	820,517	10,464	608,551	189.3	30,579	106.5	23,380	100.0	23,380	100.0	608,551	189.3	30,579	106.5	23,380	100.0	23,380	100.0		
2011	1,326,188	135.5	421,599	137.1	904,589	134.8	1,179,316	653,138	432,693	1,149,394	141.4	87,452	28,720	1,170,069	10,437	855,195	140.5	43,442	142.1	24,348	102.5	24,348	102.5	855,195	140.5	43,442	142.1	24,348	102.5	24,348	102.5		
2012	1,212,445	91.4	375,822	89.1	836,623	92.5	1,329,650	543,736	429,207	1,151,980	100.2	95,824	34,483	1,173,114	9,594	945,594	110.6	51,080	117.6	25,524	102.7	25,524	102.7	945,594	110.6	51,080	117.6	25,524	102.7	25,524	102.7		
2013	1,117,049	92.1	400,803	106.6	716,246	85.6	1,094,673	566,113	320,904	1,173,114	76.9	63,524	24,489	1,173,114	9,594	945,594	110.6	51,080	117.6	25,524	102.7	25,524	102.7	945,594	110.6	51,080	117.6	25,524	102.7	25,524	102.7		
2014	1,509,397	135.1	498,391	123.8	1,013,006	141.4	1,422,184	652,213	454,868	1,186,293	133.8	102,231	34,308	1,221,172	9,924	961,882	125.5	78,087	123.9	25,188	104.0	25,188	104.0	961,882	125.5	78,087	123.9	25,188	104.0	25,188	104.0		
2015	1,850,592	98.1	586,240	118.1	894,352	88.3	1,532,603	607,499	489,253	1,258,087	106.1	105,147	33,860	1,310,282	11,274	932,123	96.9	91,580	117.3	25,826	100.0	25,826	100.0	932,123	96.9	91,580	117.3	25,826	100.0	25,826	100.0		
2016	1,250,003	84.4	530,545	90.5	719,458	80.4	1,280,584	522,527	374,124	1,021,810	80.5	73,443	26,930	1,058,471	9,321	786,519	71.5	78,249	85.4	26,252	100.5	26,252	100.5	786,519	71.5	78,249	85.4	26,252	100.5	26,252	100.5		
2017	1,645,554	131.6	629,369	118.6	1,016,185	141.2	1,467,285	694,231	426,844	1,129,823	111.6	92,174	33,453	1,181,505	9,936	866,221	118.0	72,276	92.4	26,161	99.3	26,161	99.3	866,221	118.0	72,276	92.4	26,161	99.3	26,161	99.3		
2018	1,815,771	110.3	750,343	119.2	1,065,428	104.8	1,684,768	826,197	484,803	1,236,790	109.5	90,160	33,806	1,297,087	9,167	931,553	112.1	90,574	125.3	27,348	101.1	27,348	101.1	931,553	112.1	90,574	125.3	27,348	101.1	27,348	101.1		
2019	1,229,900	67.7	493,188	65.7	736,712	69.1	1,501,633	561,265	380,419	1,072,452	86.7	66,288	24,489	1,118,969	9,490	735,108	83.4	55,996	94.9	27,436	103.7	27,436	103.7	735,108	83.4	55,996	94.9	27,436	103.7	27,436	103.7		
2020	901,835	73.3	324,455	65.8	577,380	78.4	1,033,616	430,794	244,973	723,994	67.5	49,457	16,806	762,032	7,465	529,567	72.0	55,530	64.6	27,249	100.0	27,249	100.0	529,567	72.0	55,530	64.6	27,249	100.0	27,249	100.0		
2021	1,541,419	170.9	510,324	157.3	1,031,095	178.6	1,283,499	701,005	375,672	1,078,833	100.5	72,456	24,489	1,143,899	7,421	857,072	120.3	84,028	138.2	26,671	104.4	26,671	104.4	857,072	120.3	84,028	138.2	26,671	104.4	26,671	104.4		
2022	1,705,623	102.3	581,667	102.7	1,123,956	102.1	1,618,780	849,094	313,552	1,210,013	100.5	70,992	24,489	1,210,013	7,421	857,072	120.3	84,028	138.2	26,671	104.4	26,671	104.4	857,072	120.3	84,028	138.2	26,671	104.4	26,671	104.4		
F.Y.	1,689,133	94.9	703,366	102.2	985,767	90.2	1,666,400	751,183	438,300	1,210,013	100.5	72,456	24,489	1,210,013	7,421	857,072	120.3	84,028	138.2	26,671	104.4	26,671	104.4	857,072	120.3	84,028	138.2	26,671	104.4	26,671	104.4		
2018	1,099,541	65.1	446,639	63.5	652,902	66.2	1,367,888	490,671	341,046	975,568	80.6	60,157	21,066	1,019,629	8,302	673,839	80.1	78,536	82.9	27,470	104.5	27,470	104.5	673,839	80.1	78,536	82.9	27,470	104.5	27,470	104.5		
2019	988,483	89.9	325,988	73.0	662,495	101.5	1,032,575	446,582	248,838	728,004	74.6	53,627	18,806	757,915	6,581	546,956	81.2	52,435	66.8	27,108	99.2	27,108	99.2	546,956	81.2	52,435	66.8	27,108	99.2	27,108	99.2		
2020	1,667,502	168.7	566,229	173.7	1,101,273	166.2	1,368,954	757,694	333,552	953,784	131.0	70,992	24,489	985,574	7,704	747,726	136.7	66,232	126.3	26,570	106.1	26,570	106.1	747,726	136.7	66,232	126.3	26,570	106.1	26,570	106.1		
2022	1,705,623	102.3	581,667	102.7	1,123,956	102.1	1,618,780	849,094	313,552	1,210,013	100.5	70,992	24,489	1,210,013	7,421	857,072	120.3	84,028	138.2	26,671	104.4	26,671	104.4	857,072	120.3	84,028	138.2	26,671	104.4	26,671	104.4		
2020	174,572	55.2	62,703	50.6	111,869	58.2	218,148	447,095	53,084	159,647	60.1	10,226	3,300	162,725	8,290	122,887	65.6	13,233	62.5	27,338	100.0	27,338	100.0	122,887	65.6	13,233	62.5	27,338	100.0	27,338	100.0		
4-6	221,867	76.8	78,147	62.6	143,720	87.2	249,558	419,404	58,825	173,287	65.9	11,802	3,800	181,194	8,290	128,857	72.3	11,887	56.7	27,230	99.3	27,230	99.3	128,857	72.3	11,887	56.7	27,230	99.3	27,230	99.3		
7-9	269,948	104.1	87,776	86.0	182,172	115.9	258,834	430,704	12,986	176,759	75.8	13,852	28,294	183,001	8,145	133,237	81.4	13,837	69.2	27,012	99.3	27,012	99.3	133,237	81.4	13,837	69.2	27,012	99.3	27,012	99.3		
10-12	322,096	136.8	97,362	101.6	224,734	161.0	306,035	446,582	17,076	219,311	101.9	17,739	230,995	6,581	25,927	161,974	112.0	13,678	81.5	26,851	98.4	26,851	98.4	161,974	112.0	13,678	81.5	26,851	98.4	26,851	98.4		
2021	379,991	217.7	113,957	181.7	266,034	237.8	308,866	517,707	19,484	223,784	149.0	16,170	22,780	233,980	6,777	176,392	143.5	13,704	103.6	26,731	99.7	26,731	99.7	176,392	143.5	13,704	103.6	26,731	99.7	26,731	99.7		
4-6	405,482	182.8	147,520	188.8	257,962	179.5	331,779	591,410	15,410	223,592	129.0	16,170	22,780	233,980	6,777	176,392	143.5	13,704	103.6	26,731	99.7	26,731	99.7	176,392	143.5	13,704	103.6	26,731	99.7	26,731	99.7		
7-9	433,850	160.7	151,485	172.6	282,365	155.0	336,819	701,005	15,631	228,722	129.4	15,300	23,218	233,218	7,465	187,897	141.0	19,070	137.8	26,518	101.6	26,518	101.6	187,897	141.0	19,070	137.8	26,518	101.6	26,518	101.6		
10-12	448,179	131.9	153,267	157.4	294,912	131.2	391,490	757,694	19,425	293,109	126.6	19,760	29,319	293,109	7,704	197,087	121.7	19,116	139.8	26,375	100.7	26,375	100.7	197,087	121.7	19,116	139.8	26,375	100.7	26,375	100.7		
2022	463,043	121.9	161,313	141.6	301,730	113.4	362,729	858,008	17,481	246,409	110.1	18,470	256,607	7,																			

NET NEW ORDERS - METAL CUTTING MACHINE TOOLS IN JAPAN

Industry	Period	Total 2022	22/21 (%)	22/10-22/12	23/01-23/03	Previous Quarter (%)	year-to-year (%)	23/01-23/03	year-to-year (%)	March '23	(Value: in Millions of Yen)	
											Mar. 23/Feb. 23 (%)	Mar. 23/Mar. 22 (%)
1. Primary Metals		19,675	109.4	5,172	4,917	95.1	97.5	4,917	97.5	1,297	109.6	77.0
2. Fabricated Metal Products		50,565	125.6	11,474	11,366	99.1	93.5	11,366	93.5	5,456	165.8	116.2
3. Industrial Machinery (of which construction machinery) (of which dies and molds)		243,465	121.4	52,327	56,612	108.2	90.7	56,612	90.7	21,762	129.8	87.2
		13,655	122.3	2,919	3,068	105.1	88.4	3,068	88.4	1,087	120.2	75.8
4. Motor Vehicles (of which auto parts)		34,462	128.7	6,309	8,454	134.0	91.2	8,454	91.2	3,505	140.5	107.8
		134,719	117.0	28,683	24,610	85.8	80.9	24,610	80.9	8,800	111.3	70.6
5. Electrical Machinery		92,957	110.6	20,616	17,923	86.9	86.8	17,923	86.8	6,463	121.9	83.3
6. Precision Machinery		56,982	126.6	11,532	12,552	108.8	68.4	12,552	68.4	3,637	101.1	62.1
5-6. Electrical & Precision Machinery (Sub Total) 7. Aircraft, Shipbuilding & Transport equipment (of which aircraft)		29,525	120.9	6,241	6,507	104.3	72.0	6,507	72.0	2,239	130.1	55.1
		86,507	124.6	17,773	19,059	107.2	69.6	19,059	69.6	5,876	110.5	59.3
3-7. Sub total		18,856	117.7	5,672	5,035	88.8	101.9	5,035	101.9	1,832	130.4	72.1
		5,792	120.9	1,962	2,218	113.0	182.4	2,218	182.4	804	125.6	377.5
8. Other Machinery & Equipment		483,547	120.6	104,455	105,316	100.8	84.1	105,316	84.1	38,270	121.9	76.7
9. Government, Public Agencies & Schools		26,245	98.0	5,558	4,940	88.9	86.0	4,940	86.0	1,576	90.5	77.3
		2,205	30.0	573	225	39.3	46.5	225	46.5	77	175.0	92.8
10. Others		14,094	133.2	3,603	4,141	114.9	127.1	4,141	127.1	2,318	233.4	165.6
11. Trading Companies		6,900	109.8	1,652	798	48.3	56.0	798	56.0	375	133.5	81.7
1-11. Domestic Total		603,231	118.2	132,487	131,703	99.4	85.9	131,703	85.9	49,369	126.8	82.0
12. Foreign		1,156,370	112.1	283,305	262,498	92.7	89.0	262,498	89.0	91,650	107.6	86.4
1-12. Grand Total (of which: NC machines)		1,759,601	114.2	415,792	394,201	94.8	88.0	394,201	88.0	141,019	113.6	84.8
		1,727,473	114.0	408,638	388,378	95.0	88.3	388,378	88.3	139,003	113.8	85.3
Sales		1,568,350	122.2	411,901	441,920	107.3	112.9	441,920	112.9	193,208	141.6	109.9
(of which: NC machines)		1,544,745	122.4	406,116	435,621	107.3	113.0	435,621	113.0	190,131	141.3	110.2
Order Backlog		896,813	127.9	896,813	849,094	94.7	112.1	849,094	112.1	849,094	94.2	112.1
(of which: NC machines)		869,611	127.6	869,611	822,368	94.6	111.7	822,368	111.7	822,368	94.1	111.7

NET NEW ORDERS BY DESTINATION

(Value in Millions of yen)

2023	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sep.		Oct.		Nov.		Dec.		Total		
		%		%		%		%		%		%		%		%		%		%		%		%	2023	%	
Asia	Korea	1,996	75.6	1,810	87.1	2,196	80.4																		6,002	80.6	
	Taiwan	2,047	42.5	1,612	75.4	1,850	46.2																		5,509	80.3	
	China	24,012	73.7	29,417	98.2	30,084	90.2																		83,513	87.1	
	Other	0	-	298	375.0	35	269.2																		333	1585.7	
	East Asia Total	28,055	70.0	33,137	97.0	34,165	85.2																		95,357	83.4	
	Thailand	1,317	80.0	1,392	102.0	1,174	69.6																		3,883	82.7	
	Malaysia	1,489	149.0	618	52.2	1,138	86.6																		3,245	92.8	
	Singapore	385	82.8	736	233.7	844	22.9																		1,965	44.0	
	Philippine	143	246.6	311	170.9	173	18.5																		627	53.4	
	Indonesia	612	52.6	351	57.8	605	207.2																		1,568	76.0	
Vietnam	1,257	196.4	612	61.3	645	62.4																		2,514	94.1		
India	3,824	153.0	2,666	77.2	2,941	106.6																		9,431	108.2		
Other	3	50.0	3	37.5	7	16.7																		13	23.2		
Other Asia Total	9,030	120.8	6,689	82.5	7,527	64.0																		23,246	85.0		
Sub Total	37,085	78.0	39,826	94.2	41,692	80.4																		118,603	83.7		
Europe	Germany	4,616	103.5	5,107	106.8	4,813	112.0																		14,536	107.3	
	Italy	3,735	81.7	2,419	62.5	3,168	67.4																		9,322	70.9	
	France	1,730	99.5	1,687	79.9	2,052	104.7																		5,469	94.2	
	Central Europe	867	59.0	1,665	115.3	1,719	120.4																			4,251	97.9
	Other	3,521	104.1	3,360	86.6	3,502	107.7																			10,383	98.8
	Sub Total	14,469	92.6	14,238	88.5	15,254	97.6																			43,961	92.9
	Other West Europe	6,324	146.8	4,995	116.2	4,328	97.5																			15,647	119.9
	U.K.	1,707	97.6	1,404	82.7	1,892	69.4																			5,003	74.5
	Turkey	3,029	217.0	2,387	264.9	774	84.7																			6,190	192.8
	Switzerland	1,516	203.5	981	125.1	1,498	201.6																			3,995	175.8
East Europe	84	103.7	186	238.5	171	211.1																			441	188.8	
Russia - Other	-32	-	5	2.8	17	-																			-10	-	
Sub Total	20,845	102.1	19,424	94.1	19,770	101.2																			60,039	99.1	
North America	U.S.A.	22,733	84.6	21,312	92.8	25,530	84.9																		69,575	87.1	
	Canada	1,239	110.5	1,101	59.4	1,558	107.1																		3,898	88.0	
	Mexico	1,494	106.5	871	152.3	866	66.4																		3,231	98.5	
	Sub Total	25,466	86.6	23,284	91.7	27,954	85.1																			76,704	87.5
	Brazil	866	141.0	850	149.4	874	151.2																			2,590	147.1
	Other	38	44.7	1	0.9	44	37.0																			83	26.3
	Sub Total	904	129.3	851	125.0	918	131.7																			2,673	128.7
	Australia	769	202.4	845	142.3	477	58.3																			2,091	116.7
	Other	101	117.4	179	69.1	20	95.2																			300	82.0
	Sub Total	870	186.7	1,024	120.0	497	59.2																			2,391	110.8
Middle East		435	247.2	528	196.3	476	188.9																		1,439	206.5	
	Africa	80	148.1	226	1130.0	343	4900.0																		649	801.2	
Grand Total	85,685	86.8	85,163	94.5	91,650	86.4																			262,498	89.0	
Of which NC	85,093	86.9	84,556	94.7	91,168	86.8																			260,817	89.2	

Japan Machine Tool Builders' Association

(Note) It will be described as "-", if the actual value is "negative" or "0" or no actual value.

From January 2021, the UK was moved from the "EU" to "other Western Europe".