

The Current Condition of the Japanese Machine Tool Industry

Monthly Machine Tool Orders (January 2022)

The total value of machine tool orders in January was 142.92 billion yen. This was an increase of 2.7% compared to December 2021 and marked the first month of month-on-month growth in three months. Moreover, this figure represented an increase of 61.3% compared to the same month of the previous year and marked the fifteenth consecutive month of year-on-year growth.

The total amount of orders topped 140 billion yen for the first time in two months and topped 100 billion yen for twelve consecutive months.

Although the order environment is expected to recover both domestically and internationally, we would like to continue to pay close attention to the effects of the re-expansion of the COVID-19, the shortage of parts, and the soaring costs of parts and transportation.

Domestic orders fell by 13.7% from December, amounting to 44.17 billion yen. This marked the first month of month-on-month decline in two months. However, this figure was an increase of 67.3% over the same month of the previous year and marked the year-on-year growth in eleven consecutive months. Looking at major industries, orders compared to December fell by 5.3% in industrial machinery, by 27.7% in motor vehicles, by 9.0% in electrical & precision machinery, and by 24.6% in aircraft, shipbuilding & transport equipment.

Foreign orders rose by 12.2% over December to 98.75 billion yen, marked the first month of month-on-month growth in three months. Furthermore, foreign orders showed an increase of 58.7% over the same month of the previous year, and this marked the fifteenth consecutive month of year-on-year growth. By region, orders from Asia rose by 15.1% over December to 47.53 billion yen. This was an increase of 33.5% over the same month of the previous year. Orders from Europe rose by 16.8% over December to 20.41 billion yen. This was an increase of 89.4% over the same month of the previous year. Orders from North America rose by 6.3% over December, amounting to 29.41 billion yen. This figure was an increase of 108.8% over the same month of the previous year.

Main Statistics of Metal Cutting Machine Tools

Value in Millions of Yen

Period	ORDERS									PRODUCTION				SALES		INVENTORY		EXPORTS		IMPORTS		EMPLOYEES	WHOLE-SALE	
	Total	%	Domestic	%	Foreign	%	Sales	Order Backlog	Unites	Weight	Value	%	Unites	Value	Unites	Weight	Value	%	Value	%	Value	%	No. of Persons	PRICE INDEX
	Value	Value	Value	Value	Value	Value	Value	Value	ton	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
C.Y. 2005	1,363,203	110.3	746,709	111.0	616,494	109.4	1,275,637	644,180	92,385	453,038	1,110,257	126.4	88,719	1,125,758	5,049	23,025	815,110	119.3	107,453	121.8	22,907	100.0		
2006	1,436,970	105.4	733,009	98.2	703,961	114.2	1,407,258	684,266	100,171	492,096	1,211,230	109.1	94,383	1,232,261	6,963	26,930	921,456	113.0	135,649	126.2	23,503	101.1		
2007	1,589,991	110.6	726,424	99.1	863,567	122.7	1,522,632	758,815	106,282	515,268	1,303,164	107.6	98,752	1,317,226	9,662	32,006	892,032	96.8	72,601	53.5	24,624	100.6		
2008	1,301,147	81.8	566,820	78.0	734,327	85.0	1,472,029	574,383	95,310	492,188	1,249,184	95.9	88,319	1,267,372	11,436	31,685	874,723	98.1	60,226	83.0	25,323	101.5		
2009	411,809	31.6	159,648	28.2	252,161	34.3	596,920	382,592	28,281	180,025	486,283	38.9	29,894	514,793	9,547	22,656	321,399	36.7	28,717	47.7	24,542	100.2		
2010	978,622	237.6	307,527	192.6	671,095	266.1	851,272	508,446	67,607	302,376	813,002	167.2	67,954	820,517	10,464	24,489	608,551	189.3	30,579	106.5	23,380	100.0		
2011	1,326,188	135.5	421,599	137.1	904,589	134.8	1,179,316	653,138	85,483	432,693	1,149,394	141.4	87,452	1,170,069	10,437	28,720	855,195	140.5	43,442	142.1	24,348	102.5		
2012	1,212,445	91.4	375,822	89.1	836,623	92.5	1,329,650	543,736	93,649	429,207	1,151,980	100.2	95,824	1,173,114	9,894	34,483	945,594	110.6	51,080	117.6	25,524	102.7		
2013	1,117,049	92.1	400,803	106.6	716,246	85.6	1,094,673	566,113	56,780	320,904	886,372	76.9	62,518	911,286	7,890	31,779	766,495	81.1	63,016	123.4	24,716	101.2		
2014	1,509,397	135.1	496,391	123.8	1,013,006	141.4	1,422,184	652,213	99,407	454,866	1,186,293	133.8	102,231	1,221,172	9,924	34,308	961,862	125.5	78,087	123.9	25,188	104.0		
2015	1,480,592	98.1	586,240	118.1	894,352	88.3	1,532,603	607,499	102,101	489,253	1,258,087	106.1	105,147	1,310,282	11,274	38,620	932,123	96.9	91,580	117.3	25,826	100.0		
2016	1,250,003	84.4	530,545	90.5	719,458	80.4	1,280,584	522,527	67,991	374,124	1,012,810	80.5	73,443	1,058,471	9,321	35,371	666,519	71.5	78,249	85.4	26,252	100.5		
2017	1,645,554	131.6	629,369	118.6	1,016,185	141.2	1,467,285	694,231	88,644	426,841	1,129,823	111.6	92,174	1,181,505	9,936	33,453	786,221	118.0	72,276	92.4	26,161	99.3		
2018	1,815,771	110.3	750,343	119.2	1,065,428	104.8	1,684,768	826,197	84,803	454,619	1,236,790	109.5	90,160	1,297,087	9,167	31,553	881,700	112.1	90,574	125.3	27,348	101.1		
2019	1,229,900	67.7	493,188	65.7	736,712	69.1	1,501,633	561,265	62,240	380,419	1,072,452	86.7	66,288	1,118,969	9,490	33,806	735,108	83.4	85,996	94.9	27,436	103.7		
2020	901,835	73.3	324,455	65.8	577,380	78.4	1,033,616	430,794	45,569	244,973	723,994	67.5	49,457	762,032	8,145	28,075	529,567	72.0	55,530	64.6	27,249	104.7		
2021	1,541,419	170.9	510,324	157.3	1,031,095	178.6	1,283,499	701,005	67,083	314,347	895,450	123.7	68,779	923,652	7,465	30,612	712,785	134.6	60,797	109.5	26,680	104.7		
F.Y. 2016	1,289,310	92.2	531,575	91.8	757,735	92.4	1,251,224	531,962	67,060	366,470	989,202	83.5	70,973	1,028,610	9,212	32,928	649,014	76.8	75,944	86.6	26,196	100.2		
2017	1,780,339	138.1	687,975	129.4	1,092,364	144.2	1,578,249	727,486	97,915	457,502	1,203,453	121.7	102,009	1,259,109	9,532	30,607	867,434	133.7	74,455	98.0	26,436	99.5		
2018	1,689,133	94.9	703,366	102.2	985,767	90.2	1,666,400	751,183	76,151	438,300	1,210,013	100.5	81,169	1,272,572	9,171	29,803	841,164	97.0	94,726	127.2	27,387	101.8		
2019	1,099,541	65.1	446,639	63.5	652,902	66.2	1,367,888	490,671	55,766	341,046	975,568	80.6	60,157	1,019,629	8,302	29,106	673,839	80.1	78,536	82.9	27,470	104.5		
2020	988,483	89.9	325,988	73.0	662,495	101.5	1,032,575	446,582	49,996	248,982	727,868	74.6	53,329	757,975	7,969	26,393	546,956	81.2	52,435	66.8	27,102	103.9		
2019 1-3	365,807	74.3	142,378	75.2	223,429	73.7	440,821	183,813	18,436	111,038	312,185	92.1	19,700	334,452	9,171	29,803	205,854	83.5	24,233	120.7	27,279	102.9		
4-6	316,119	67.0	123,934	63.8	192,185	69.3	351,564	151,738	15,598	94,086	263,823	89.6	16,497	265,489	9,513	33,994	187,244	85.4	21,169	106.8	27,573	103.1		
7-9	288,738	64.9	124,777	64.2	163,961	65.4	375,809	162,667	14,951	92,970	263,112	86.1	16,265	278,308	9,249	32,671	178,320	81.3	20,601	93.5	27,505	103.4		
10-12	259,236	63.7	102,099	59.2	157,137	67.0	333,439	156,265	13,255	82,325	233,332	78.3	13,826	240,720	9,490	33,806	163,690	83.2	19,993	69.8	27,387	105.5		
2020 1-3	235,448	64.4	95,829	67.3	139,619	62.5	307,076	139,619	11,962	71,665	215,301	69.0	13,569	235,112	8,302	29,106	144,586	70.2	16,773	69.2	27,416	105.9		
4-6	174,572	55.2	62,703	50.6	111,869	58.2	218,148	103,848	9,523	53,084	158,647	60.1	10,226	162,725	8,290	29,800	122,887	65.6	13,233	62.5	27,338	104.8		
7-9	221,867	76.8	78,147	62.6	143,720	87.7	249,558	117,147	11,098	58,825	173,287	65.9	11,810	181,194	8,302	28,294	128,857	72.3	11,687	56.7	27,230	103.9		
10-12	269,948	104.1	87,776	86.0	182,172	115.9	258,834	130,794	12,986	61,399	176,759	75.8	13,852	183,001	8,145	28,075	133,237	81.4	13,837	69.2	27,012	104.0		
2021 1-3	322,096	136.8	97,362	101.6	224,734	161.0	306,035	146,582	16,389	75,674	219,175	101.8	17,441	231,055	7,969	26,393	161,974	112.0	13,678	81.5	26,828	102.9		
4-6	379,991	217.7	113,957	181.7	266,034	237.8	308,866	151,707	19,297	79,495	223,737	141.0	19,622	223,688	7,356	29,315	176,397	143.5	13,704	103.6	26,718	104.3		
7-9	405,482	182.8	147,520	188.8	257,962	179.5	331,779	159,410	15,603	77,798	223,592	129.0	16,324	235,467	7,202	28,547	186,499	144.7	14,343	122.7	26,656	105.2		
10-12	433,850	160.7	151,485	172.6	282,365	155.0	336,819	165,137	15,794	81,380	228,946	129.5	15,392	233,442	7,465	30,612	187,914	141.0	19,072	137.8	26,518	106.2		
2020 8	67,980	76.8	23,069	61.5	44,911	88.2	71,173	31,713	3,660	18,254	53,599	67.5	3,496	52,186	8,646	31,007	42,133	72.2	3,717	51.0	27,250	103.6		
9	84,099	85.0	30,270	65.7	53,829	101.7	102,636	49,404	4,117	22,236	65,241	65.5	4,713	73,576	8,302	28,294	45,584	77.7	4,480	70.7	27,179	103.4		
10	82,211	94.0	28,892	86.4	53,319	98.7	74,529	33,447	3,853	18,083	52,682	71.6	4,150	52,296	8,202	28,786	42,075	80.6	3,566	54.0	27,123	103.6		
11	88,680	108.6	27,042	86.2	61,638	122.5	81,818	38,441	4,221	20,756	59,515	78.6	4,615	61,446	8,066	28,983	42,060	77.2	5,813	86.3	26,988	105.0		
12	99,057	109.9	31,842	85.4	67,215	127.3	102,487	43,074	4,912	22,560	64,562	76.9	5,087	69,259	8,145	28,075	49,102	86.1	4,459	67.0	26,926	103.5		
2021 1	88,627	109.7	26,405	89.2	62,222	121.5	73,345	34,845	4,110	19,493	55,617	84.7	4,212	53,546	8,294	29,426	41,135	109.4	5,483	74.1	26,868	102.4		
2	105,593	136.7	30,470	95.2	75,123	166.1	85,596	46,800	5,236	23,743	68,514	99.4	4,995	65,032	8,828	31,793	47,762	95.2	3,733	85.3	26,793	102.8		
3	127,876	165.1	40,487	118.2	87,389	202.3	147,094	64,582	7,043	32,438	95,044	117.8	8,234	112,477	7,969	26,393	73,077	128.6	4,461	89.3	26,823	103.6		
4	123,974	220.8	36,078	170.6	87,896	251.2	94,526	47,603	6,503	26,639	72,653	137.6	6,484	67,668	8,322	29,520	55,536	132.7	4,310	85.2	26,687	103.6		
5	123,936	241.9	33,223	182.6	90,713	274.5	101,506	49,460	6,328	25,265	72,468	149.1	6,086	73,058	7,883	30,194	58,370	156.5	4,367	99.7	26,722	104.9		
6	132,081	196.6	44,656	191.1	87,425	199.5	112,834	51,707	6,466	27,591	78,616	137.3	7,052	82,962	7,356	29,315	62,492	142.9	5,028	132.4	26,745	104.4		
7	134,983	193.4	45,385	182.9	89,598	199.2	104,298	54,392	5,537	26,067	73,556	135.1	5,197	73,259	7,970	31,094	63,752							

NET NEW ORDERS – METAL CUTTING MACHINE TOOLS IN JAPAN

(Value: in Millions of Yen)

Period		Total 2021	21/20 (%)	21/07-21/09	21/10-21/12	Previous Quarter (%)	year-to-year (%)	22/01-22/01	year-to-year (%)	Jan. '22	Jan. 22/Dec. 21 (%)	Jan. 22/Jan. 21 (%)
1. Primary Metals		17,981	159.6	6,450	3,955	61.3	133.8	1,713	235.6	1,713	125.5	235.6
2. Fabricated Metal Products		40,274	171.4	13,951	11,050	79.2	153.9	3,752	249.8	3,752	98.8	249.8
Machinery & Equipment Industries	3. Industrial Machinery	200,489	150.6	58,763	60,702	103.3	178.5	19,534	200.1	19,534	94.7	200.1
	(of which construction machinery)	11,166	159.2	3,727	3,774	101.3	288.8	655	198.5	655	50.9	198.5
	(of which dies and molds)	26,785	201.6	8,553	8,932	104.4	289.2	3,066	230.5	3,066	95.3	230.5
	4. Motor Vehicles	115,123	138.0	28,417	30,300	106.6	114.8	8,017	93.7	8,017	72.3	93.7
	(of which auto parts)	84,015	151.2	21,173	21,372	100.9	113.8	6,157	98.9	6,157	85.8	98.9
	5. Electrical Machinery	45,020	212.0	14,318	15,206	106.2	308.4	4,370	280.3	4,370	97.3	280.3
	6. Precision Machinery	24,423	186.8	6,359	7,920	124.5	277.4	2,365	204.8	2,365	81.4	204.8
	5 – 6. Electrical & Precision Machinery (Sub Total)	69,443	202.4	20,677	23,126	111.8	297.1	6,735	248.2	6,735	91.0	248.2
	7. Aircraft, Shipbuilding & Transport equipment	16,026	144.5	3,918	6,264	159.9	280.6	1,457	242.4	1,457	75.4	242.4
	(of which aircraft)	4,791	133.2	1,301	1,731	133.1	374.7	459	454.5	459	87.3	454.5
3 – 7. Sub total		401,081	153.1	111,775	120,392	107.7	171.0	35,743	165.2	35,743	87.1	165.2
8. Other Machinery & Equipment		26,774	219.7	8,462	7,449	88.0	201.4	1,348	78.1	1,348	54.6	78.1
9. Government, Public Agencies & Schools		7,349	247.0	2,817	3,185	113.1	402.1	248	272.5	248	38.4	272.5
10. Others		10,582	125.3	2,649	3,409	128.7	173.9	864	145.5	864	75.8	145.5
11. Trading Companies		6,283	151.9	1,416	2,045	144.4	267.0	501	373.9	501	69.5	373.9
1-11. Domestic Total		510,324	157.3	147,520	151,485	102.7	172.6	44,169	167.3	44,169	86.3	167.3
12. Foreign		1,031,095	178.6	257,962	282,365	109.5	155.0	98,749	158.7	98,749	112.2	158.7
1-12. Grand Total		1,541,419	170.9	405,482	433,850	107.0	160.7	142,918	161.3	142,918	102.7	161.3
(of which: NC machines)		1,514,935	171.2	398,939	424,546	106.4	159.9	140,685	161.4	140,685	103.4	161.4
Sales		1,283,499	124.2	331,779	336,819	101.5	130.1	99,472	135.6	99,472	77.2	135.6
(of which: NC machines)		1,261,733	124.9	326,517	331,252	101.5	130.9	98,245	136.3	98,245	77.5	136.3
Order Backlog		701,005	162.7	591,410	701,005	118.5	162.7	744,451	167.0	744,451	106.2	167.0
(of which: NC machines)		681,753	164.1	575,476	681,753	118.5	164.1	724,193	168.2	724,193	106.2	168.2

NET NEW ORDERS BY DESTINATION

(Value in Millions of yen)

2022		Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sep.		Oct.		Nov.		Dec.		Total				
			%		%		%		%		%		%		%		%		%		%		%		%	2022	%			
Asia	East Asia	Korea	2,641	94.2																							2,641	94.2		
		Taiwan	4,815	215.9																								4,815	215.9	
		China	32,598	126.8																									32,598	126.8
		Other	0	-																								0	-	
		East Asia Total	40,054	130.3																								40,054	130.3	
	Other Asia	Thailand	1,647	161.2																									1,647	161.2
		Malaysia	999	130.8																									999	130.8
		Sigapore	465	96.3																									465	96.3
		Philippine	58	252.2																									58	252.2
		Indonesia	1,163	575.7																									1,163	575.7
Vietnam		640	104.2																									640	104.2	
India		2,499	142.8																									2,499	142.8	
Other	6	150.0																									6	150.0		
Other Asia Total	7,477	153.8																									7,477	153.8		
Sub Total	47,531	133.5																										47,531	133.5	
Europe	EU	Germany	4,459	177.4																								4,459	177.4	
		Italy	4,574	258.4																									4,574	258.4
		France	1,738	198.9																									1,738	198.9
		Central Europe	1,469	169.8																									1,469	169.8
		Other	3,383	160.3																									3,383	160.3
	Sub Total	15,623	192.1																										15,623	192.1
	Other West Europe	U.K.	1,749	172.8																									1,749	172.8
		Turkey	1,396	125.0																									1,396	125.0
		Switzerland	745	280.1																									745	280.1
		East Europe	81	337.5																									81	337.5
Russia - Other		400	275.9																									400	275.9	
Sub Total	20,412	189.4																										20,412	189.4	
North America & Central America	U.S.A.	26,887	227.0																									26,887	227.0	
	Canada	1,121	90.3																									1,121	90.3	
	Mexico	1,403	140.7																									1,403	140.7	
	Sub Total	29,411	208.8																										29,411	208.8
Oceania	Brazil	614	129.0																									614	129.0	
	Other	85	197.7																									85	197.7	
	Sub Total	699	134.7																									699	134.7	
Africa	Australia	380	50.7																									380	50.7	
	Other	86	245.7																									86	245.7	
Sub Total	466	59.4																										466	59.4	
Middle East	176	71.8																										176	71.8	
Africa	54	25.5																										54	25.5	
Grand Total	98,749	158.7																										98,749	158.7	
Of which NC	97,408	157.8																										97,408	157.8	

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

Japan Machine Tool Builders' Association

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