

The Current Condition of the Japanese Machine Tool Industry

Monthly Machine Tool Orders (January 2021)

The total value of machine tool orders in January was 88.63 billion yen. This was a decrease of 10.5% compared to December 2020 and marked the first month of month-on-month decline in three months. However, this figure represented an increase of 9.7% compared to the same month of the previous year and marked the third consecutive month of year-on-year growth. The total amount of orders fell below 90 billion yen for the first time in two months, although it has exceeded 85 billion yen for three consecutive months.

As vaccinations of COVID-19 started in countries and regions around the world, we would like to keep an eye on the future spread of infection and economic activities.

Domestic orders fell by 17.1% from December, amounting to 26.41 billion yen. This marked the month-on-month decline for the first time in two months. Moreover, this figure was a decline of 10.8% from the same month of the previous year and marked the twenty-sixth consecutive months of year-on-year decline. Looking at major industries, orders compared to December fell by 21.2% in industrial machinery, by 11.4% in motor vehicles, by 14.3% in electrical & precision machinery, and by 17.8% in aircraft, shipbuilding & transport equipment.

Foreign orders fell by 7.2% from December to 62.22 billion yen, marked the first month of month-on-month decline for three months. Nevertheless, foreign orders showed an increase of 21.5% over the same month of the previous year, and this marked the third consecutive month of year-on-year growth. By region, orders from Asia fell by 13.9% from December to 35.60 billion yen. This was an increase of 82.5% over the same month of the previous year. Orders from Europe rose by 9.8% over December to 10.78 billion yen. This was a decrease of 12.9% from the same month of the previous year. Orders from North America fell by 13.4% from December, amounting to 14.09 billion yen. This figure was a decline of 22.5% from 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 No. of Persons	WHOLE-SALE PRICE INDEX		
	Total		Domestic		Foreign		Sales	Order Backlog	Unites	Weight ton	Value	%	Unites	Value	Unites	Weight ton	Value	%	Value	%				
	Value	%	Value	%	Value	%																		
C.Y.	2004	1,236,192	145.2	672,839	152.4	563,353	137.6	1,025,726	555,840	79,500	361,935	878,082	127.2	76,091	879,589	4,092	17,384	683,066	121.1	88,245	166.0	22,141	101.6	
	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	45,670	245,088	736,132	68.6	49,451	761,593	8,145	28,075	529,560	72.0	55,530	64.6	27,251	104.6	
F.Y.	2015	1,398,968	88.6	579,295	109.9	819,673	77.9	1,471,868	548,277	90,060	453,903	1,185,130	94.0	94,378	1,233,552	9,761	34,724	844,991	82.4	87,710	111.1	26,036	100.4	
	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	55,863	341,154	987,749	81.6	60,147	1,018,933	8,332	29,106	673,830	80.1	78,535	82.9	27,473	104.5	
	2018	1-3	492,445	137.7	189,355	144.8	303,090	133.6	459,189	727,486	27,088	127,357	338,962	127.8	28,691	358,967	9,532	30,607	246,390	149.2	20,081	112.2	27,123	99.8
		4-6	471,600	116.0	194,388	124.4	277,212	110.7	390,124	808,962	20,437	108,721	294,341	111.0	21,449	298,271	9,559	34,290	219,335	116.2	19,814	123.3	27,400	101.5
		7-9	444,980	106.9	194,217	115.6	250,763	101.0	419,902	834,040	19,155	111,159	305,640	102.5	20,678	322,923	9,193	32,470	219,327	103.9	22,039	114.7	27,448	101.5
		10-12	406,746	87.5	172,383	98.8	234,363	80.6	415,553	826,197	18,123	107,382	297,847	98.9	19,342	316,926	9,167	31,553	196,648	88.9	28,640	150.1	27,421	101.5
	2019	1-3	365,807	74.3	142,378	75.2	223,429	73.7	440,821	751,183	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	715,738	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	628,667	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	561,265	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	490,671	12,059	71,773	227,482	72.9	13,559	234,416	8,332	29,106	144,577	70.2	16,772	69.2	27,428	105.9
		4-6	174,572	55.2	62,703	50.6	111,869	58.2	218,148	447,095	9,529	53,096	158,926	60.2	10,232	163,004	8,290	29,800	122,887	65.6	13,233	62.5	27,336	104.8
		7-9	221,867	76.8	78,147	62.6	143,720	87.7	249,558	419,404	11,096	58,820	172,965	65.7	11,808	181,172	8,302	28,294	128,859	72.3	11,687	56.7	27,229	103.9
		10-12	269,948	104.1	87,776	86.0	182,172	115.9	258,834	430,794	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	103.9
	2019	8	88,487	63.0	37,541	60.2	50,946	65.3	112,872	677,782	4,702	28,354	79,404	85.6	4,654	81,719	10,076	35,833	58,354	84.2	7,288	104.6	27,504	103.7
		9	98,973	64.5	46,065	71.5	52,908	59.4	148,088	628,667	5,335	34,280	99,531	91.0	6,519	112,151	9,249	32,671	58,666	77.2	6,341	82.0	27,475	103.3
		10	87,453	62.6	33,423	58.0	54,030	65.9	95,698	620,422	4,452	26,248	73,626	79.0	4,162	69,336	9,814	35,380	52,211	83.2	6,608	60.7	27,446	105.9
		11	81,669	62.1	31,369	54.5	50,300	67.9	105,787	596,304	4,235	27,454	75,730	72.5	4,572	79,537	9,750	35,474	54,465	83.8	6,733	71.3	27,464	105.8
		12	90,114	66.5	37,307	65.3	52,807	67.4	131,954	561,265	4,568	28,623	83,976	83.7	5,092	91,847	9,490	33,806	57,014	82.7	6,652	80.0	27,250	104.7
	2020	1	80,777	64.4	29,586	63.3	51,191	65.1	88,094	593,948	3,764	22,863	72,005	80.5	3,986	65,698	9,613	35,216	37,603	73.3	7,398	81.4	27,434	106.5
		2	77,224	70.4	31,997	76.8	45,227	66.4	92,301	539,905	4,014	23,030	74,832	77.4	4,214	72,678	9,638	34,727	50,162	72.4	4,377	57.4	27,415	106.3
		3	77,447	59.3	34,246	63.5	43,201	56.3	126,681															

NET NEW ORDERS – METAL CUTTING MACHINE TOOLS IN JAPAN

(Value: in Millions of Yen)

Period		Total 2020	20/19 (%)	20/07-20/09	20/10-20/12	Previous Quarter (%)	year-to-year (%)	21/01-21/01	year-to-year (%)	January ' 21	Jan. 21/Dec. 20 (%)	Jan. 21/Jan. 20 (%)
1. Primary Metals		11,265	74.7	1,896	2,955	155.9	96.2	727	47.5	727	49.5	47.5
2. Fabricated Metal Products		23,498	73.4	6,262	7,181	114.7	104.8	1,502	97.8	1,502	65.1	97.8
Machinery & Equipment Industries	3. Industrial Machinery	133,112	65.8	32,982	34,001	103.1	86.4	9,762	91.9	9,762	78.8	91.9
	(of which construction machinery)	7,013	60.8	2,241	1,307	58.3	59.4	330	56.5	330	74.2	56.5
	(of which dies and molds)	13,283	63.3	3,200	3,089	96.5	82.0	1,330	127.5	1,330	119.2	127.5
	4. Motor Vehicles	83,437	59.7	17,566	26,405	150.3	88.6	8,555	94.7	8,555	88.6	94.7
	(of which auto parts)	55,580	54.9	11,813	18,776	158.9	87.4	6,227	118.5	6,227	91.4	118.5
	5. Electrical Machinery	21,239	90.2	5,634	4,930	87.5	111.4	1,559	82.6	1,559	71.8	82.6
	6. Precision Machinery	13,076	67.1	3,515	2,855	81.2	80.8	1,155	95.5	1,155	116.0	95.5
	5 – 6. Electrical & Precision Machinery (Sub Total)	34,315	79.8	9,149	7,785	85.1	97.8	2,714	87.7	2,714	85.7	87.7
	7. Aircraft, Shipbuilding & Transport equipment	11,089	45.4	2,881	2,232	77.5	31.7	601	35.9	601	82.2	35.9
	(of which aircraft)	3,598	30.0	486	462	95.1	13.8	101	7.7	101	32.9	7.7
3 – 7. Sub total		261,953	64.0	62,578	70,423	112.5	83.7	21,632	88.6	21,632	83.4	88.6
8. Other Machinery & Equipment		12,185	77.2	2,498	3,699	148.1	120.6	1,725	215.4	1,725	145.8	215.4
9. Government, Public Agencies & Schools		2,975	118.5	1,587	792	49.9	89.3	91	38.1	91	68.4	38.1
10. Others		8,444	70.1	2,191	1,960	89.5	67.8	594	92.1	594	104.9	92.1
11. Trading Companies		4,135	65.4	1,135	766	67.5	65.2	134	32.5	134	52.8	32.5
1-11. Domestic Total		324,455	65.8	78,147	87,776	112.3	86.0	26,405	89.2	26,405	82.9	89.2
12. Foreign		577,380	78.4	143,720	182,172	126.8	115.9	62,222	121.5	62,222	92.6	121.5
1-12. Grand Total		901,835	73.3	221,867	269,948	121.7	104.1	88,627	109.7	88,627	89.5	109.7
(of which: NC machines)		884,770	73.3	217,206	265,545	122.3	104.3	87,182	110.2	87,182	89.5	110.2
Sales		1,033,616	68.8	249,558	258,834	103.7	77.6	73,345	83.3	73,345	71.6	83.3
(of which: NC machines)		1,010,596	68.5	244,100	253,059	103.7	77.3	72,084	83.4	72,084	72.3	83.4
Order Backlog		430,794	76.8	419,404	430,794	102.7	76.8	445,803	80.5	445,803	103.5	80.5
(of which: NC machines)		415,568	76.6	404,934	415,568	102.6	76.6	430,666	80.5	430,666	103.6	80.5

NET NEW ORDERS BY DESTINATION

(Value in Millions of yen)

2021		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total		
															2021	%
Asia	East Asia	Korea	2,804	140.2											2,804	140.2
		Taiwan	2,230	123.8											2,230	123.8
		China	25,705	239.3											25,705	239.3
		Other	0	-											0	-
		East Asia Total	30,739	211.4											30,739	211.4
	Other Asia	Thailand	1,022	103.5											1,022	103.5
		Malaysia	764	457.5											764	457.5
		Singapore	483	187.9											483	187.9
		Philippine	23	13.1											23	13.1
		Indonesia	202	24.9											202	24.9
Vietnam		614	85.5											614	85.5	
India		1,750	94.7											1,750	94.7	
Other	4	133.3											4	133.3		
Other Asia Total	4,862	97.9												4,862	97.9	
Sub Total	35,601	182.5												35,601	182.5	
Europe	EU	Germany	2,514	80.0											2,514	80.0
		Italy	1,770	105.3											1,770	105.3
		France	874	87.1											874	87.1
		Central Europe	865	67.8											865	67.8
		Other	2,110	99.9											2,110	99.9
		Sub Total	8,133	-											8,133	-
	Other West Europe	U.K.	1,012	65.1											1,012	65.1
		Turkey	1,117	312.9											1,117	312.9
		Switzerland	266	47.6											266	47.6
		East Europe	24	47.1											24	47.1
		Russia - Other	145	26.7											145	26.7
Sub Total	10,776	87.1											10,776	87.1		
North America	U.S.A.	11,846	73.4											11,846	73.4	
	Canada	1,242	111.8											1,242	111.8	
	Mexico	997	109.0											997	109.0	
	Sub Total	14,085	77.5											14,085	77.5	
South & Central America	Brazil	476	126.3											476	126.3	
	Other	43	72.9											43	72.9	
	Sub Total	519	119.0											519	119.0	
Oceania	Australia	749	231.2											749	231.2	
	Other	35	1750.0											35	1750.0	
Sub Total	784	240.5												784	240.5	
Middle East	245	72.9												245	72.9	
Africa	212	504.8												212	504.8	
Grand Total	62,222	121.5												62,222	121.5	
Of which NC	61,740	121.7												61,740	121.7	

(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".