

The Current Condition of the Japanese Machine Tool Industry

Monthly Machine Tool Orders (August 2022)

The total value of machine tool orders in August was 139.33 billion yen. This was a decrease of 2.2% compared to July 2022 and marked the second consecutive month of month-on-month decline. However, this figure represented an increase of 10.7% compared to the same month of the previous year and marked the twenty-second consecutive month of year-on-year growth. The total amount of orders fell below 140 billion yen for the first time in six months but exceeded 100 billion yen for 19 consecutive months.

Orders in August continued to be at a high level for both domestic and foreign demand. We would like to keep a close watch on the outlook for the world economy in line with trends in monetary policy.

Domestic orders fell by 0.4% from July, amounting to 51.78 billion yen. This marked the second consecutive month of month-on-month decline. Nevertheless, this figure was an increase of 16.2% over the same month of the previous year and marked the year-on-year growth in eighteen consecutive months. Looking at major industries, orders compared to July fell by 6.9% in industrial machinery, rose by 0.8% in motor vehicles, by 22.6% in electrical & precision machinery, and by 29.5% in aircraft, shipbuilding & transport equipment.

Foreign orders fell by 3.2% from July to 87.55 billion yen, marked the third consecutive month of month-on-month decline. Though, foreign orders showed an increase of 7.7% over the same month of the previous year, and this marked the twenty-second consecutive month of year-on-year growth. By region, orders from Asia rose by 3.1% over July to 43.73 billion yen. This was an increase of 21.7% over the same month of the previous year. Orders from Europe fell by 19.9% from July to 15.82 billion yen. This was a decrease of 12.0% from the same month of the previous year. Orders from North America fell by 1.6% from July, amounting to 25.46 billion yen. This figure was an increase of 4.4% 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	%	No. of	PRICE
	Value		Value		Value		Value	Value		ton						ton					Persons	INDEX
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	1,051,272	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	100.0
2021	1,541,419	170.9	510,324	157.3	1,031,095	178.6	1,283,499	701,005	67,601	313,143	895,409	123.7	68,971	923,460	7,465	30,612	712,613	134.6	60,795	109.5	26,689	100.1
F.Y. 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	50,683	248,838	728,004	74.6	53,627	757,915	6,581	25,927	546,956	81.2	52,435	66.8	27,108	99.2
2021	1,667,502	168.7	566,229	173.7	1,101,273	166.2	1,368,954	757,694	69,950	333,567	954,330	131.1	70,992	986,131	7,703	30,665	747,692	136.7	66,233	126.3	26,570	100.6
2019 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	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	101.4
4-6	174,572	55.2	62,703	50.6	111,869	58.2	218,148	447,095	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	100.0
7-9	221,867	76.8	78,147	62.6	143,720	87.7	249,558	419,404	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	99.3
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	99.3
2021 1-3	322,096	136.8	97,362	101.6	224,734	161.0	306,035	446,582	17,076	75,530	219,311	101.9	17,739	230,995	6,581	25,927	161,974	112.0	13,678	81.5	26,851	98.4
4-6	379,991	217.7	113,957	181.7	266,034	237.8	308,866	517,707	19,484	79,254	223,784	141.1	19,762	223,780	6,777	28,689	176,392	143.5	13,704	103.6	26,731	99.7
7-9	405,482	182.8	147,520	188.8	257,962	179.5	331,779	591,410	15,410	77,314	223,592	129.0	16,170	235,467	6,586	27,809	186,350	144.6	14,343	122.7	26,656	100.6
10-12	433,850	160.7	151,485	172.6	282,365	155.0	336,819	701,005	15,631	81,045	228,722	129.4	15,300	233,218	7,465	30,612	187,897	141.0	19,070	137.8	26,518	101.6
2022 1-3	448,179	139.1	153,267	157.4	294,912	131.2	481,490	757,694	19,425	95,954	278,232	126.9	19,760	293,666	7,703	30,665	197,054	121.7	19,116	139.8	26,375	100.7
4-6	463,043	121.9	161,313	141.6	301,730	113.4	362,729	858,008	17,639	88,227	248,929	111.2	18,593	257,634	7,265	32,228	198,031	112.3	20,673	150.8	26,572	103.9
2021 3	127,876	165.1	40,487	118.2	87,389	202.3	147,094	446,582	7,338	32,390	95,040	117.8	8,380	112,364	6,581	25,927	73,077	128.6	4,461	89.3	26,823	99.2
4	123,974	220.8	36,078	170.6	87,896	251.2	94,526	476,030	6,785	26,519	72,700	137.7	6,679	67,717	6,838	28,913	55,530	132.7	4,310	85.2	26,727	98.9
5	123,936	241.9	33,223	182.6	90,713	274.5	101,506	498,460	6,287	25,217	72,468	149.1	6,057	73,058	7,332	29,612	58,370	156.5	4,367	99.7	26,722	100.6
6	132,081	196.6	44,656	191.1	87,425	199.5	112,834	517,707	6,412	27,518	78,616	137.3	7,026	83,005	6,777	28,689	62,492	142.9	5,028	132.4	26,745	99.7
7	134,983	193.4	45,385	182.9	89,598	199.2	104,298	548,392	5,483	25,921	73,556	135.1	5,157	73,259	7,379	30,445	63,785	155.0	4,818	138.0	26,700	99.9
8	125,903	185.2	44,575	193.2	81,328	181.1	101,511	573,184	4,322	23,316	67,478	125.9	5,172	72,744	6,705	29,019	55,951	132.8	4,892	131.6	26,671	101.3
9	144,596	171.9	57,560	190.2	87,036	161.7	126,370	591,410	5,605	28,077	82,558	126.5	5,841	89,464	6,586	27,809	66,614	146.1	4,633	103.4	26,598	100.5
10	149,222	181.5	50,289	174.1	98,933	185.5	102,860	637,772	4,695	24,032	67,209	127.6	4,855	72,407	6,620	28,292	64,758	153.9	4,615	129.4	26,590	101.5
11	145,401	164.0	50,001																			

NET NEW ORDERS – METAL CUTTING MACHINE TOOLS IN JAPAN

(Value: in Millions of Yen)

Period		Total 2021	21/20 (%)	22/01–22/03	22/04–22/06	Previous Quarter (%)	year-to-year (%)	22/01–22/08	year-to-year (%)	Aug. '22	Aug. 22/July 22 (%)	Aug. 22/Aug. 21 (%)
1. Primary Metals		17,981	159.6	5,043	5,133	101.8	139.8	12,425	109.3	1,278	131.6	88.5
2. Fabricated Metal Products		40,274	171.4	12,157	13,597	111.8	163.3	34,230	145.5	4,080	92.8	87.0
Machinery & Equipment Industries	3. Industrial Machinery	200,489	150.6	62,389	67,123	107.6	152.3	170,707	147.0	19,865	93.1	111.6
	(of which construction machinery)	11,166	159.2	3,470	4,517	130.2	209.4	10,040	162.2	1,159	129.6	107.4
	(of which dies and molds)	26,785	201.6	9,268	9,599	103.6	189.7	26,000	184.4	3,503	96.5	106.1
	4. Motor Vehicles	115,123	138.0	30,432	36,655	120.4	126.2	93,990	126.5	13,504	100.8	147.4
	(of which auto parts)	84,015	151.2	20,645	25,045	121.3	114.7	64,009	115.7	9,041	97.4	139.6
	5. Electrical Machinery	45,020	212.0	18,360	13,600	74.1	160.6	41,260	169.1	5,386	137.6	153.3
	6. Precision Machinery	24,423	186.8	9,035	7,201	79.7	110.9	20,712	144.8	2,200	96.7	145.2
	5 – 6. Electrical & Precision Machinery (Sub Total)	69,443	202.4	27,395	20,801	75.9	139.0	61,972	160.1	7,586	122.6	150.8
	7. Aircraft, Shipbuilding & Transport equipment	16,026	144.5	4,940	4,502	91.1	171.2	11,643	147.0	1,242	129.5	106.5
	(of which aircraft)	4,791	133.2	1,216	1,180	97.0	190.6	3,316	146.3	654	245.9	207.0
3 – 7. Sub total		401,081	153.1	125,156	129,081	103.1	142.3	338,312	142.7	42,197	100.8	127.3
8. Other Machinery & Equipment		26,774	219.7	5,744	8,058	140.3	134.5	18,619	112.8	1,966	69.0	65.8
9. Government, Public Agencies & Schools		7,349	247.0	484	270	55.8	25.2	1,262	40.7	272	115.3	22.3
10. Others		10,582	125.3	3,259	3,332	102.2	143.2	8,843	148.1	1,153	104.9	155.4
11. Trading Companies		6,283	151.9	1,424	1,842	129.4	99.7	4,634	123.7	829	153.8	244.5
1–11. Domestic Total		510,324	157.3	153,267	161,313	105.2	141.6	418,325	138.8	51,775	99.6	116.2
12. Foreign		1,031,095	178.6	294,912	301,730	102.3	113.4	774,636	117.1	87,552	96.8	107.7
1–12. Grand Total		1,541,419	170.9	448,179	463,043	103.3	121.9	1,192,961	123.9	139,327	97.8	110.7
(of which: NC machines)		1,514,935	171.2	439,808	454,924	103.4	121.6	1,170,684	123.5	136,034	97.2	109.6
Sales		1,283,499	124.2	391,490	362,729	92.7	117.4	993,333	121.1	125,881	111.2	124.5
(of which: NC machines)		1,261,733	124.9	385,388	357,717	92.8	117.8	978,113	121.3	123,892	111.5	124.4
Order Backlog		701,005	162.7	757,694	858,008	113.2	165.7	900,633	157.1	900,633	101.5	157.1
(of which: NC machines)		681,753	164.1	736,173	833,380	113.2	165.7	874,324	156.8	874,324	101.4	156.8

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	2,078	56.3	2,730	118.0	2,813	120.2	4,609	210.5	3,715	111.7	2,450	98.3	1,794	61.2									22,830	103.3
		Taiwan	4,815	215.9	2,137	86.8	4,005	137.0	2,912	94.3	2,850	119.1	3,461	104.8	2,522	117.9	4,430	146.5									27,132	125.8
		China	32,598	126.8	29,942	99.1	33,370	89.3	32,133	85.0	33,273	85.9	34,790	124.0	27,982	92.3	29,849	124.9									253,937	100.7
		Other	0	-	8	800.0	13	-	0	-	15	-	0	-	1	-	1	-									38	10.3
	East Asia Total	40,054	130.3	34,165	93.9	40,118	94.1	37,858	86.8	40,747	94.0	41,966	121.0	32,955	94.3	36,074	120.8									303,937	102.6	
	Other Asia	Thailand	1,647	161.2	1,365	122.3	1,686	108.6	2,274	164.8	1,586	85.4	1,989	118.4	2,154	90.4	1,393	85.8									14,094	111.7
		Malaysia	999	130.8	1,183	228.8	1,314	242.4	1,644	197.8	1,260	170.3	949	71.8	1,836	212.0	562	81.3									9,747	155.4
		Singapore	465	96.3	315	87.3	3,690	697.5	1,134	77.2	704	113.4	937	107.3	853	226.9	566	113.4									8,664	166.3
		Philippine	58	252.2	182	303.3	935	361.0	215	179.2	399	539.2	457	283.9	256	125.5	333	252.3									2,835	274.4
		Indonesia	1,163	575.7	607	193.9	292	51.8	674	123.9	475	69.4	635	105.7	390	83.7	586	176.5									4,822	130.1
Vietnam		640	104.2	998	394.5	1,034	279.5	756	115.6	997	107.2	1,066	101.3	949	77.7	1,105	242.3									7,545	135.9	
India	2,499	142.8	3,454	71.8	2,760	68.7	3,317	109.4	2,164	98.8	3,048	112.8	3,006	186.4	3,104	151.3									23,352	105.3		
Other	6	150.0	8	32.0	42	300.0	69	766.7	3	42.9	558	13950.0	4	4.9	3	1.0									693	157.5		
Other Asia Total	7,477	153.8	8,112	108.8	11,753	149.7	10,083	125.4	7,588	106.8	9,639	114.8	9,448	131.0	7,652	125.8									71,752	125.9		
Sub Total	47,531	133.5	42,277	96.5	51,871	102.8	47,941	92.9	48,335	95.8	51,605	119.8	42,403	100.6	43,726	121.7										375,689	106.4	
Europe	EU	Germany	4,459	177.4	4,784	159.2	4,298	133.4	4,222	143.9	4,616	123.2	4,685	133.6	4,830	135.8	3,529	95.4									35,423	135.3
		Italy	4,574	258.4	3,870	183.8	4,698	163.9	3,758	125.6	3,626	111.0	3,486	100.8	3,316	74.9	2,978	89.8									30,306	125.2
		France	1,738	198.9	2,111	201.8	1,959	172.8	3,520	272.0	2,427	177.7	1,231	85.3	1,923	88.7	932	43.2									15,841	138.0
		Central Europe	1,469	169.8	1,444	227.4	1,428	140.7	1,731	215.6	1,202	89.9	1,661	117.3	1,740	132.0	1,668	142.9									12,343	135.2
		Other	3,383	160.3	3,880	213.8	3,251	141.0	3,274	129.4	3,748	130.1	2,789	79.7	2,552	48.3	2,977	91.4									25,854	109.2
	Sub Total	15,623	192.1	16,089	186.9	15,634	148.3	16,505	148.3	15,619	124.0	13,852	104.0	14,361	85.7	12,084	88.9									119,767	126.5	
	Other West Europe	U.K.	1,749	172.8	2,241	199.6	2,728	213.3	1,879	123.9	2,472	148.6	1,758	88.1	2,523	151.4	1,402	67.1									16,752	135.7
		Turkey	1,396	125.0	901	65.5	914	96.4	1,523	138.1	818	58.1	-769	-	1,653	87.0	1,329	116.6									7,765	75.5
		Switzerland	745	280.1	784	161.3	743	115.6	640	132.5	1,106	228.0	1,126	176.5	978	134.5	762	171.2									6,884	165.0
		East Europe	81	337.5	78	73.6	81	71.7	43	172.0	86	64.7	332	349.5	86	35.4	184	460.0									971	124.6
Russia - Other		400	275.9	180	92.8	-625	-	-16	-	6	1.7	-1,235	-	8	2.2	-11	-										-1,293	-
Sub Total	20,412	189.4	20,647	169.8	19,528	138.9	20,687	138.2	20,510	120.2	15,100	83.2	19,751	90.3	15,817	88.0										152,452	120.0	
North America & Oceania	U.S.A.	26,887	227.0	22,965	152.5	30,070	160.0	27,206	152.2	30,822	160.8	24,422	114.4	22,721	102.4	22,841	102.5									207,934	140.0	
	Canada	1,121	90.3	1,855	199.2	1,455	96.2	1,667	150.2	1,219	100.2	1,526	121.9	1,879	125.4	1,598	112.9									12,320	121.0	
	Mexico	1,403	140.7	572	29.4	1,305	124.0	2,051	233.9	989	60.0	1,272	68.4	1,270	585.3	1,016	144.7									9,878	106.2	
	Sub Total	29,411	208.8	25,392	141.6	32,830	153.7	30,924	155.6	33,030	149.9	27,220	111.3	25,870	108.2	25,455	104.4										230,132	136.9
South & Central America	Brazil	614	129.0	569	139.1	578	94.0	749	143.8	721	188.3	690	95.6	1,045	131.9	1,171	66.8									6,137	108.2	
	Other	85	197.7	112	215.4	119	95.2	89	222.5	42	52.5	161	183.0	236	205.2	38	24.5									882	126.4	
	Sub Total	699	134.7	681	147.7	697	94.2	838	149.4	763	164.8	851	105.1	1,281	141.2	1,209	63.3									7,019	110.2	
Oceania	Australia	380	50.7	594	126.4	818	188.0	1,084	479.6	521	84.7	517	88.1	931	191.6	1,037	169.7									5,882	140.8	
	Other	86	245.7	259	1126.1	21	16.7	125	79.1	136	203.0	87	51.5	48	55.8	114	104.6									876	113.3	
Sub Total	466	59.4	853	173.0	839	149.6	1,209	314.8	657	96.3	604	79.9	979	171.2	1,151	159.9										6,758	136.5	
Middle East	176	71.8	269	103.9	252	162.6	127	33.4	558	1361.0	641	424.5	104	57.8	174	55.6										2,301	133.5	
Africa	54	25.5	20	-	7	15.9	92	85.2	0	-	38	422.2	54	675.0	20	27.4										285	63.2	
Grand Total	98,749	158.7	90,139	120.0	106,024	121.3	101,818	115.8	103,853	114.5	96,059	109.9	90,442	100.9	87,552	107.7										774,636	117.1	
Of which NC	97,408	157.8	89,315	119.9	104,242	120.1	100,547	115.1	103,038	114.4	95,149	109.5	89,592	100.5	85,399	106.0											764,690	116.4

(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".