

## The Current Condition of the Japanese Machine Tool Industry

### Monthly Machine Tool Orders (September 2021)

The total value of machine tool orders in September was 144.60 billion yen. This was an increase of 14.8% compared to August 2021 and marked the first month of month-on-month growth in two months. Moreover, this figure represented an increase of 71.9% compared to the same month of the previous year and marked the eleventh consecutive month of year-on-year growth.

The total amount of orders topped 140 billion yen for the first time in 36 months since September 2018 (153.45 billion yen).

Although there are some effects at the end of the term in September, both domestic and foreign orders continue to recover. On the other hand, we would like to continue to pay close attention to the infection status of COVID-19 and the shortage of materials.

Domestic orders rose by 29.1% over August, amounting to 57.56 billion yen. This marked the first month of month-on-month growth in two months. Furthermore, this figure was an increase of 90.2% over the same month of the previous year and marked the year-on-year growth in seven consecutive months. Looking at major industries, orders compared to August rose by 32.9% in industrial machinery, by 14.9% in motor vehicles, by 51.3% in electrical & precision machinery, and by 58.0% in aircraft, shipbuilding & transport equipment.

Foreign orders rose by 7.0% over August to 87.04 billion yen, marked the first month of month-on-month growth in two months. Likewise, foreign orders showed an increase of 61.7% over the same month of the previous year, and this marked the eleventh consecutive month of year-on-year growth. By region, orders from Asia rose by 5.5% over August to 37.91 billion yen. This was an increase of 28.3% over the same month of the previous year. Orders from Europe rose by 12.8% over August to 20.29 billion yen. This was an increase of 172.4% over the same month of the previous year. Orders from North America rose by 10.7% over August, amounting to 27.01 billion yen. This figure was an increase of 71.1% 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.	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	4,900	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
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
	2018 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
	2019 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
	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
	2020 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	105.9
	2020 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	104.8
	2020 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	103.9
	2020 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	104.0
	2021 1-3	322,096	136.8	97,362	101.6	224,734	161.0	306,035	446,582	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
	2021 4-6	379,991	217.7	113,957	181.7	266,034	237.8	308,866	517,707	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
	2021 7-9	405,482	182.8	147,520	188.8	257,962	179.5	331,779	591,410														105.2
	2020 4	56,143	51.7	21,149	48.6	34,994	53.7	67,769	479,045	3,125	17,878	52,796	62.1	3,301	54,090	8,378	29,703	41,859	65.3	5,057	77.8	27,353	104.5
	2020 5	51,239	47.2	18,192	42.6	33,047	50.2	66,801	463,483	3,029	16,662	48,597	55.4	3,125	48,546	8,495	30,436	37,289	60.3	4,380	51.9	27,339	105.0
	2020 6	67,190	67.9	23,362	62.0	43,828	71.6	83,578	447,095	3,369	18,544	57,254	62.9	3,800	60,089	8,290	29,800	43,739	71.4	3,797	60.9	27,323	105.0
	2020 7	69,788	68.9	24,808	60.3	44,980	74.8	75,749	441,134	3,321	18,335	54,447	64.7	3,601	55,432	8,235	29,898	41,140	67.1	3,490	50.1	27,260	104.7
	2020 8	67,980	76.8	23,069	61.5	44,911	88.2	71,173	437,941	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
	2020 9	84,099	85.0	30,270	65.7	53,829	101.7	102,636	419,404	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
	2020 10	82,211	94.0	28,892	86.4	53,319	98.7	74,529	427,086	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
	2020 11	88,680	108.6	27,042	86.2	61,638	122.5	81,818	433,948	4,221	20,756	59,515	78.6	4,615	61,446	8,066	28,98						

## NET NEW ORDERS – METAL CUTTING MACHINE TOOLS IN JAPAN

(Value: in Millions of Yen)

Period		Total 2020	20/19 (%)	21/04-21/06	21/07-21/09	Previous Quarter (%)	year-to-year (%)	21/01-21/09	year-to-year (%)	Sept. ' 21	Sept. 21/Aug. 21 (%)	Sept. 21/Sept. 20 (%)
Industry												
1. Primary Metals		11,265	74.7	3,671	6,450	175.7	340.2	14,026	168.8	2,658	184.1	359.2
2. Fabricated Metal Products		23,498	73.4	8,328	13,951	167.5	222.8	29,224	179.1	5,695	121.4	254.9
Machinery & Equipment Industries	3. Industrial Machinery	133,112	65.8	44,072	58,763	133.3	178.2	139,787	141.0	23,657	132.9	196.9
	(of which construction machinery)	7,013	60.8	2,157	3,727	172.8	166.3	7,392	129.5	1,202	111.4	143.3
	(of which dies and molds )	13,283	63.3	5,060	8,553	169.0	267.3	17,853	175.1	3,756	113.7	346.5
	4. Motor Vehicles	83,437	59.7	29,052	28,417	97.8	161.8	84,823	148.7	10,525	114.9	143.7
	(of which auto parts)	55,580	54.9	21,831	21,173	97.0	179.2	62,643	170.2	7,309	112.9	147.6
	5. Electrical Machinery	21,239	90.2	8,470	14,318	169.0	254.1	29,814	182.8	5,412	154.0	279.3
	6. Precision Machinery	13,076	67.1	6,496	6,359	97.9	180.9	16,503	161.5	2,197	145.0	145.1
	5 – 6. Electrical & Precision Machinery (Sub Total)	34,315	79.8	14,966	20,677	138.2	226.0	46,317	174.6	7,609	151.3	220.4
	7. Aircraft, Shipbuilding & Transport equipment	11,089	45.4	2,630	3,918	149.0	136.0	9,762	110.2	1,842	158.0	121.6
	(of which aircraft)	3,598	30.0	619	1,301	210.2	267.7	3,060	97.6	793	250.9	270.6
3 – 7. Sub total		261,953	64.0	90,720	111,775	123.2	178.6	280,689	146.6	43,633	131.6	179.5
8. Other Machinery & Equipment		12,185	77.2	5,992	8,462	141.2	338.8	19,325	227.7	2,817	94.3	239.5
9. Government, Public Agencies & Schools		2,975	118.5	1,072	2,817	262.8	177.5	4,164	190.7	1,062	87.0	207.8
10. Others		8,444	70.1	2,327	2,649	113.8	120.9	7,173	110.6	1,204	162.3	155.2
11. Trading Companies		4,135	65.4	1,847	1,416	76.7	124.8	4,238	125.8	491	144.8	93.7
1-11. Domestic Total		324,455	65.8	113,957	147,520	129.5	188.8	358,839	151.6	57,560	129.1	190.2
12. Foreign		577,380	78.4	266,034	257,962	97.0	179.5	748,730	189.5	87,036	107.0	161.7
1-12. Grand Total		901,835	73.3	379,991	405,482	106.7	182.8	1,107,569	175.3	144,596	114.8	171.9
(of which: NC machines)		884,770	73.3	374,264	398,939	106.6	183.7	1,090,389	176.1	142,084	114.5	172.1
Sales		1,033,616	68.8	308,866	331,779	107.4	132.9	946,680	122.2	126,370	125.0	123.1
(of which: NC machines)		1,010,596	68.5	303,691	326,517	107.5	133.8	930,481	122.8	124,384	124.9	124.2
Order Backlog		430,794	76.8	517,707	591,410	114.2	141.0	591,410	141.0	591,410	103.2	141.0
(of which: NC machines)		415,568	76.6	503,054	575,476	114.4	142.1	575,476	142.1	575,476	103.2	142.1

# 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	%			
East Asia	Korea	2,804	140.2	3,692	208.9	2,314	161.6	2,340	152.2	2,190	233.7	3,327	250.5	2,492	166.8	2,932	343.7	1,684	141.0									23,775	189.6	
	Taiwan	2,230	123.8	2,462	198.1	2,923	206.3	3,089	305.5	2,392	145.3	3,302	319.0	2,139	179.3	3,023	224.3	2,988	188.9									24,548	200.0	
	China	25,705	239.3	30,212	409.4	37,384	330.9	37,795	326.9	38,751	273.4	28,056	181.5	30,308	164.0	23,903	140.4	25,929	124.5									278,043	219.0	
	Other	0	-	1	4.3	0	-	368	-	0	-	0	-	0	-	0	-	0	-									369	39.5	
East Asia Total		30,739	211.4	36,367	349.2	42,621	301.0	43,592	309.0	43,333	258.6	34,685	194.7	34,939	165.0	29,858	155.3	30,601	124.9									326,735	214.0	
Asia	Thailand	1,022	103.5	1,116	54.2	1,552	105.2	1,380	147.0	1,858	605.2	1,680	304.3	2,383	240.5	1,624	224.9	1,031	112.9									13,646	152.6	
	Malaysia	764	457.5	517	74.1	542	43.7	831	244.4	740	229.1	1,321	250.2	866	211.2	691	59.1	621	76.3									6,893	121.1	
	Singapore	483	187.9	361	214.9	529	111.4	1,468	308.4	621	149.6	873	395.0	376	257.5	499	243.4	458	307.4									5,668	225.6	
	Philippine	23	13.1	60	46.5	259	99.2	120	117.6	74	224.2	161	251.6	204	510.0	132	134.7	520	1130.4									1,553	163.6	
	Indonesia	202	24.9	313	60.7	564	153.3	544	290.9	684	670.6	601	326.6	466	575.3	332	214.2	198	15.5									3,904	105.9	
	Vietnam	614	85.5	253	29.2	370	144.0	654	145.0	930	332.1	1,052	305.8	1,221	533.2	456	86.4	496	182.4									6,046	153.3	
	India	1,750	94.7	4,810	359.5	4,020	467.4	3,033	393.4	2,190	489.9	2,703	180.0	1,613	172.7	2,052	208.3	3,982	253.6									26,153	255.1	
	Other	4	133.3	25	2500.0	14	466.7	9	3.0	7	700.0	4	400.0	81	1157.1	296	14800.0	1	50.0									441	137.4	
	Other Asia Total		4,862	97.9	7,455	129.1	7,850	158.9	8,039	225.4	7,104	372.3	8,395	247.2	7,210	254.1	6,082	157.4	7,307	144.8									64,304	177.1
	Sub Total		35,601	182.5	43,822	270.7	50,471	264.3	51,631	292.1	50,437	270.2	43,080	203.1	42,149	175.5	35,940	155.7	37,908	128.3									391,039	206.9
Europe	Germany	2,514	80.0	3,005	128.0	3,223	238.9	2,933	364.3	3,747	447.7	3,506	325.8	3,558	218.4	3,699	319.4	4,771	331.8									30,956	224.6	
	Italy	1,770	105.3	2,106	275.7	2,866	550.1	2,991	1137.3	3,266	781.3	3,460	415.9	4,430	564.3	3,316	431.2	3,849	268.8									28,054	375.8	
	France	874	87.1	1,046	131.6	1,134	266.8	1,294	416.1	1,366	379.4	1,443	347.7	2,169	215.4	2,156	453.9	2,206	521.5									13,688	262.5	
	Central Europe	865	67.8	635	36.8	1,015	129.0	1,378	181.3	1,337	352.8	1,416	292.6	1,318	135.7	1,167	224.9	1,330	274.8									10,461	141.7	
	Other	2,110	99.9	1,815	78.7	2,305	122.2	2,530	265.5	2,880	220.4	3,499	231.3	5,287	516.8	3,258	374.5	3,186	292.0									26,870	205.7	
	Sub Total		8,133	-	8,607	-	10,543	-	11,126	-	12,596	-	13,324	-	16,762	-	13,596	-	15,342	-									110,029	-
	Other West Europe		2,474	-	3,251	-	3,188	-	3,588	-	3,970	-	4,070	-	4,511	-	4,073	-	4,352	-									33,477	-
	U. K.	1,012	65.1	1,123	83.9	1,279	160.7	1,516	207.4	1,664	545.6	1,996	263.0	1,666	249.0	2,090	260.6	1,584	129.9									13,930	170.4	
	Turkey	1,117	312.9	1,376	204.5	948	224.6	1,103	302.2	1,409	401.4	1,286	240.4	1,899	251.9	1,140	193.9	1,747	313.6									12,025	261.3	
	Switzerland	266	47.6	486	97.2	643	200.9	483	468.9	485	310.9	638	261.5	727	667.0	445	108.0	868	264.6									5,041	184.6	
East Europe	24	47.1	106	60.6	113	-	25	3.1	133	211.1	95	3166.7	243	121.5	40	-	83	377.3									862	66.0		
Russia - Other	145	26.7	194	109.6	210	36.8	225	101.8	358	246.9	668	289.2	357	113.7	272	111.5	512	116.9									2,941	102.0		
Sub Total		10,776	87.1	12,158	111.4	14,054	195.1	14,964	279.7	17,057	381.4	18,157	292.4	21,873	280.1	17,981	296.5	20,289	272.4									147,309	217.1	
North America & Oceania	U. S. A.	11,846	73.4	15,057	99.0	18,799	154.1	17,881	165.5	19,168	228.9	21,350	152.7	22,193	200.9	22,274	204.7	24,134	171.6									172,702	153.2	
	Canada	1,242	111.8	931	72.9	1,513	234.9	1,110	385.4	1,216	440.6	1,252	370.4	1,499	205.1	1,416	181.8	1,807	171.1									11,986	184.4	
	Mexico	997	109.0	1,946	225.8	1,052	31.5	877	128.4	1,648	219.4	1,860	519.6	217	42.1	702	21.6	1,067	161.4									10,366	91.5	
	Sub Total		14,085	77.5	17,934	103.4	21,364	132.0	19,868	168.7	22,032	234.4	24,462	166.7	23,909	194.5	24,392	163.6	27,008	171.1									195,054	149.4
Brazil	476	126.3	409	130.7	615	292.9	521	-	383	364.8	722	357.4	792	3443.5	1,754	640.1	759	300.0									6,431	386.0		
Other	43	72.9	52	152.9	125	595.2	40	-	80	190.5	88	146.7	115	169.1	155	246.0	28	112.0									726	195.2		
Sub Total		519	119.0	461	132.9	740	320.3	561	-	463	315.0	810	309.2	907	996.7	1,909	566.5	787	283.1									7,157	351.2	
Australia	749	231.2	470	200.9	435	145.0	226	209.3	615	184.1	587	140.1	486	92.2	611	140.1	688	119.4									4,867	149.4		
Other	35	1750.0	23	230.0	126	-	158	117.0	67	-	169	-	86	-	109	-	117	174.6									890	415.9		
Sub Total		784	240.5	493	202.0	561	187.0	384	158.0	682	204.2	756	180.4	572	108.5	720	165.1	805	125.2									5,757	165.8	
Middle East	245	72.9	259	140.0	155	119.2	380	3800.0	41	136.7	151	15.4	180	80.0	313	763.4	121	75.6									1,845	88.2		
Africa	212	504.8	-4	-	44	75.9	108	284.2	1	-	9	14.1	8	36.4	73	208.6	118	-									569	233.2		
Grand Total		62,222	121.5	75,123	166.1	87,389	202.3	87,896	251.2	90,713	274.5	87,425	199.5	89,598	199.2	81,328	181.1	87,036	161.7									748,730	189.5	
Of which NC		61,740	121.7	74,462	165.2	86,832	203.2	87,321	253.3	90,104	276.6	86,925	200.5	89,182	200.7	80,545	180.9	86,537	161.9									743,648	190.0	

(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”.