

The Current Condition of the Japanese Machine Tool Industry

Monthly Machine Tool Orders (September 2022)

The total value of machine tool orders in September was 150.85 billion yen. This was an increase of 8.3% compared to August 2022 and marked the first month of month-on-month growth in three months. Moreover, this figure represented an increase of 4.3% compared to the same month of the previous year and marked the twenty-third consecutive month of year-on-year growth.

The total amount of orders topped 150 billion yen for the first time in three months and exceeded 100 billion yen for 20 consecutive months.

Orders in September 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 rose by 1.2% over August, amounting to 52.42 billion yen. This marked the first month of month-on-month growth in three months. However, this figure was a decrease of 8.9% from the same month of the previous year and marked the first year-on-year decline in nineteen months. Looking at major industries, orders compared to August rose by 2.8% in industrial machinery, fell by 10.8% in motor vehicles, by 10.9% in electrical & precision machinery, and rose by 24.1% in aircraft, shipbuilding & transport equipment.

Foreign orders rose by 12.4% over August to 98.43 billion yen, marked the first month of month-on-month growth in four months. In addition, foreign orders showed an increase of 13.1% over the same month of the previous year, and this marked the twenty-third consecutive month of year-on-year growth. By region, orders from Asia rose by 8.6% over August to 47.50 billion yen. This was an increase of 25.3% over the same month of the previous year. Orders from Europe rose by 19.9% over August to 18.96 billion yen. This was a decrease of 6.5% from the same month of the previous year. Orders from North America rose by 18.4% over August, amounting to 30.14 billion yen. This figure was an increase of 11.6% over the same month of the previous year.

NET NEW ORDERS – METAL CUTTING MACHINE TOOLS IN JAPAN

(Value: in Millions of Yen)

Period		Total 2021	21/20 (%)	22/04–22/06	22/07–22/09	Previous Quarter (%)	year-to-year (%)	22/01–22/09	year-to-year (%)	Sept. '22	Sept. 22/Aug. 22 (%)	Sept. 22/Sept. 21 (%)
1. Primary Metals		17,981	159.6	5,133	4,327	84.3	67.1	14,503	103.4	2,078	162.6	78.2
2. Fabricated Metal Products		40,274	171.4	13,597	13,337	98.1	95.6	39,091	133.8	4,861	119.1	85.4
Machinery & Equipment Industries	3. Industrial Machinery	200,489	150.6	67,123	61,626	91.8	104.9	191,138	136.7	20,431	102.8	86.4
	(of which construction machinery)	11,166	159.2	4,517	2,749	60.9	73.8	10,736	145.2	696	60.1	57.9
	(of which dies and molds)	26,785	201.6	9,599	9,286	96.7	108.6	28,153	157.7	2,153	61.5	57.3
	4. Motor Vehicles	115,123	138.0	36,655	38,949	106.3	137.1	106,036	125.0	12,046	89.2	114.5
	(of which auto parts)	84,015	151.2	25,045	26,651	106.4	125.9	72,341	115.5	8,332	92.2	114.0
	5. Electrical Machinery	45,020	212.0	13,600	13,490	99.2	94.2	45,450	152.4	4,190	77.8	77.4
	6. Precision Machinery	24,423	186.8	7,201	7,048	97.9	110.8	23,284	141.1	2,572	116.9	117.1
	5 – 6. Electrical & Precision Machinery (Sub Total)	69,443	202.4	20,801	20,538	98.7	99.3	68,734	148.4	6,762	89.1	88.9
	7. Aircraft, Shipbuilding & Transport equipment	16,026	144.5	4,502	3,742	83.1	95.5	13,184	135.1	1,541	124.1	83.7
	(of which aircraft)	4,791	133.2	1,180	1,434	121.5	110.2	3,830	125.2	514	78.6	64.8
3 – 7. Sub total		401,081	153.1	129,081	124,855	96.7	111.7	379,092	135.1	40,780	96.6	93.5
8. Other Machinery & Equipment		26,774	219.7	8,058	6,885	85.4	81.4	20,687	107.0	2,068	105.2	73.4
9. Government, Public Agencies & Schools		7,349	247.0	270	878	325.2	31.2	1,632	39.2	370	136.0	34.8
10. Others		10,582	125.3	3,332	3,900	117.0	147.2	10,491	146.3	1,648	142.9	136.9
11. Trading Companies		6,283	151.9	1,842	1,982	107.6	140.0	5,248	123.8	614	74.1	125.1
1–11. Domestic Total		510,324	157.3	161,313	156,164	96.8	105.9	470,744	131.2	52,419	101.2	91.1
12. Foreign		1,031,095	178.6	301,730	276,423	91.6	107.2	873,065	116.6	98,429	112.4	113.1
1–12. Grand Total		1,541,419	170.9	463,043	432,587	93.4	106.7	1,343,809	121.3	150,848	108.3	104.3
(of which: NC machines)		1,514,935	171.2	454,924	424,103	93.2	106.3	1,318,835	121.0	148,151	108.9	104.3
Sales		1,283,499	124.2	362,729	402,230	110.9	121.2	1,156,449	122.2	163,116	129.6	129.1
(of which: NC machines)		1,261,733	124.9	357,717	395,524	110.6	121.1	1,138,629	122.4	160,516	129.6	129.0
Order Backlog		701,005	162.7	858,008	888,365	103.5	150.2	888,365	150.2	888,365	98.6	150.2
(of which: NC machines)		681,753	164.1	833,380	861,959	103.4	149.8	861,959	149.8	861,959	98.6	149.8

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				
			%		%		%		%		%		%		%		%		%		%		%		%		%		%	
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	2,215	131.5									25,045	105.3	
	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	2,897	97.0									30,029	122.3	
	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	32,745	126.3									286,682	103.1	
	Other	0	-	8	800.0	13	-	0	-	15	-	0	-	1	-	1	-	0	-									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	37,857	123.7									341,794	104.6	
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	1,483	143.8									15,577	114.2	
	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	1,119	180.2									10,866	157.6	
	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	1,056	230.6									9,720	171.5	
	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	309	59.4									3,144	202.4	
	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	693	350.0									5,515	141.3	
	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	1,661	334.9									9,206	152.3	
	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	3,295	82.7									26,647	101.9	
	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	27	2700.0									720	163.3	
	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	9,643	132.0									81,395	126.6
	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	47,500	125.3									423,189	108.2
Europe	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	4,830	101.2									40,253	130.0	
	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	2,532	65.8									32,838	117.1	
	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	1,379	62.5									17,220	125.8	
	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	1,786	134.3									14,129	135.1	
	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	3,331	104.6									29,185	108.6	
	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	13,858	90.3									133,625	121.4
	Other West Europe		4,308	174.1	4,300	132.3	4,438	139.2	4,155	115.8	4,799	120.9	2,151	52.9	5,296	117.4	3,560	87.4	4,959	113.9									37,966	113.4
	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	2,307	145.6									19,059	136.8	
	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	1,757	100.6									9,522	79.2	
	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	738	85.0									7,622	151.2	
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	228	274.7									1,199	139.1		
Russia - Other	400	275.9	180	92.8	-625	-	-16	-	6	1.7	-1,235	-	8	2.2	-11	-	-81	-									-1,374	-		
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	18,964	93.5									171,416	116.4	
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	27,587	114.3									235,521	136.4	
	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	1,012	56.0									13,332	111.2	
	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	1,545	144.8									11,423	110.2	
	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	30,144	111.6									260,276	133.4
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	817	107.6									6,954	108.1		
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	220	785.7									1,102	151.8		
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	1,037	131.8									8,056	112.6	
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	459	66.7									6,341	130.3		
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	152	129.9									1,028	115.5		
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	611	75.9									7,369	128.0	
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	88	72.7									2,389	129.5		
Africa	54	25.5	20	-	7	15.9	92	85.2	0	-	38	422.2	54	675.0	20	27.4	85	72.0									370	65.0		
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	98,429	113.1									873,065	116.6	
Of which NC		97,907	158.6	89,315	119.9	105,085	121.0	100,547	115.1	103,038	114.4	95,149	109.5	89,592	100.5	85,773	106.3	97,589	112.8									863,995	116.2	

(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".