

The Current Condition of the Japanese Machine Tool Industry

Monthly Machine Tool Orders (April 2018)

The total value of machine tool orders in April was 163.06 billion yen. This was a decrease of 10.8% compared to March 2018 and marked the first month of month-on-month decline in three months. However, this figure represented an increase of 22.0% compared to the same month of the previous year and marked the eighteenth consecutive months of year-on-year growth.

The total amount of orders topped 150 billion yen for six consecutive years and topped 100 billion yen for eighteen consecutive years.

From the end of last year, high level trends are ongoing. We are expecting that it will remain steady in the future. On the other hand, we would like to pay attention to various overseas risks and movements related to parts procurement difficulties.

Domestic orders fell by 9.3% from March, amounting to 68.51 billion yen. This marked the first month of month-on-month decline in three months. This figure was a growth of 35.8% over the same month of the previous year and marked the fifteen consecutive months of year-on-year increase.

Looking at major industries, orders compared to March fell by 10.0% in industrial machinery, by 11.6% in motor vehicles, by 5.8% in electrical & precision machinery, and fell by 9.2% in aircraft, shipbuilding & transport equipment.

Foreign orders fell by 11.9% from March to 94.55 billion yen, marked the first month of month-on-month decline in two months. However, foreign orders showed an increase of 13.6% over the same month of the previous year, and this marked the seventeen consecutive months of year-on-year growth.

By region, orders from Asia fell by 15.8% from March to 46.12 billion yen. This was a decrease of 0.2% from the same month of the previous year. Orders from Europe fell by 7.8% from March to 19.17 billion yen. However, this was an increase of 22.7% over the same month of the previous year. Orders from North America fell by 8.8% from March, amounting to 27.73 billion yen. This figure was an increase of 34.1% 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	
CY	2001	788,898	80.9	411,125	78.8	377,773	83.3	874,107	313,370	74,572	300,527	776,453	95.3	74,911	781,440	6,922	18,320	558,403	90.1	69,619	81.4	23,848	100.3
	2002	675,837	85.7	350,322	85.2	325,515	86.2	670,714	308,372	55,807	227,217	585,098	75.4	58,144	594,957	4,483	16,083	484,668	86.8	50,904	73.1	22,545	98.8
	2003	851,101	125.9	441,587	126.1	409,514	125.8	792,356	348,947	65,673	272,171	690,205	118.0	64,013	692,463	3,851	14,687	564,105	116.4	53,163	104.4	22,130	99.2
	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
FY	2013	1,204,852	105.7	422,029	116.3	782,823	100.8	1,149,078	529,922	61,311	344,586	936,303	87.3	65,329	958,064	7,938	27,939	771,524	86.1	72,839	144.3	24,650	101.2
	2014	1,578,546	131.0	526,876	124.8	1,051,670	134.3	1,495,341	613,854	110,375	485,288	1,260,233	134.6	113,378	1,300,885	9,758	32,083	1,025,252	132.9	78,930	108.4	25,347	105.2
	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	97,914	457,498	1,203,363	121.6	102,008	1,259,019	9,532	30,607	867,441	133.7	74,453	98.0	26,436	99.4
2015	4-6	409,273	110.6	161,606	141.5	247,667	96.8	358,474	665,037	29,234	122,618	307,664	111.7	30,479	311,380	9,582	35,663	253,302	108.2	22,009	120.9	25,874	99.3
	7-9	346,692	88.5	155,456	116.1	191,236	74.2	374,540	641,420	22,017	117,800	300,099	93.2	22,740	308,293	9,933	38,809	221,571	80.5	22,934	130.2	25,925	101.1
	10-12	324,650	77.9	132,514	93.2	192,136	69.9	361,269	607,499	20,061	109,135	288,427	95.8	19,833	302,655	11,274	38,620	187,436	76.2	22,558	118.6	26,096	100.7
2016	1-3	318,353	79.6	129,719	94.9	188,634	71.6	377,585	548,277	18,748	104,350	288,940	79.8	21,326	311,224	9,761	34,724	182,682	67.7	20,208	83.9	26,250	100.4
	4-6	312,653	76.4	128,589	79.6	184,064	74.3	276,287	586,107	17,078	87,540	232,375	75.5	17,454	230,929	10,207	38,629	164,216	64.8	18,240	82.9	26,420	100.5
	7-9	305,303	88.1	139,942	90.0	165,361	86.5	312,748	578,484	15,940	90,376	245,412	81.8	17,284	256,945	9,577	37,195	168,544	76.1	17,203	75.0	26,272	100.9
2017	10-12	313,694	96.6	132,295	99.8	181,399	94.4	313,964	522,527	16,225	91,858	246,083	85.3	17,379	259,373	9,321	35,371	151,077	80.6	22,598	100.2	26,066	100.2
	1-3	357,660	112.3	130,749	100.8	226,911	120.3	348,255	531,962	17,817	96,696	265,332	91.8	18,856	281,363	9,212	32,928	165,177	90.4	17,903	88.6	26,024	99.1
	4-6	406,555	130.0	156,212	121.5	250,343	136.0	317,028	620,525	22,260	101,610	265,123	114.1	22,567	268,381	9,920	35,641	188,702	114.9	16,072	88.1	26,256	99.1
2018	7-9	416,280	136.3	168,011	120.1	248,269	150.1	408,029	628,824	24,416	113,136	298,176	121.5	25,917	318,685	9,514	32,076	211,049	125.2	19,215	111.7	26,194	99.7
	10-12	465,059	148.3	174,397	131.8	290,662	160.2	394,003	694,231	24,151	115,399	301,192	122.4	24,834	313,076	9,936	33,453	221,293	146.5	19,086	84.5	26,169	99.3
	1-3	492,445	137.7	189,355	144.8	303,090	133.6	459,189	727,486	27,087	127,353	338,872	127.7	28,690	358,877	9,532	30,607	246,397	149.2	20,079	112.2	27,124	99.7
2016	11	107,931	94.4	44,964	98.9	62,967	91.4	107,188	581,834	5,788	31,713	85,020	89.2	5,491	87,117	10,246	37,704	45,861	83.0	7,944	97.6	26,072	100.0
	12	111,879	104.4	45,976	108.0	65,903	102.0	115,010	522,527	5,322	31,344	85,853	83.4	6,554	93,923	9,321	35,371	57,016	90.0	7,742	124.2	26,023	100.6
2017	1	103,744	103.5	37,750	95.4	65,994	108.7	88,075	538,196	4,707	26,335	70,536	85.9	4,822	70,394	9,486	36,699	39,202	84.6	5,807	82.8	25,993	99.5
	2	111,218	109.1	40,539	104.2	70,679	112.1	99,316	550,098	5,545	29,759	78,389	88.4	5,324	78,884	9,960	37,818	50,989	86.7	5,061	77.0	25,989	99.2
	3	142,698	122.8	52,460	102.3	90,238	139.0	160,834	531,962	7,565	40,602	116,407	98.5	8,710	132,085	9,212	32,928	74,985	96.7	7,035	106.3	26,089	98.6
	4	133,701	134.7	50,459	129.5	83,242	138.1	90,414	574,285	6,340	30,595	77,269	103.6	6,395	78,476	9,460	34,631	58,501	113.2	3,935	77.7	26,226	99.7
	5	129,887	124.5	51,059	131.4	78,828	120.3	102,291	601,881	7,195	32,195	83,938	114.1	7,210	86,027	9,811	34,337	61,050	120.6	5,827	91.7	26,313	98.5
	6	142,967	131.1	54,694	107.8	88,273	151.4	124,323	620,525	8,725	38,820	103,916	123.3	8,962	103,878	9,920	35,641	69,151	111.7	6,310	92.5	26,229	99.0

NET NEW ORDERS – METAL CUTTING MACHINE TOOLS IN JAPAN

(Value: in Millions of Yen)

Industry \ Period		Total 2017	17/16 (%)	17/10-17/12	18/01-18/03	Previous Quarter (%)	year-to-year (%)	18/01-18/04	year-to-year (%)	April '18	Apr. 18/Mar. 18 (%)	Apr. 18/Apr. 17 (%)
1. Primary Metals		17,778	97.9	4,985	6,004	120.4	150.8	8,462	157.7	2,458	107.5	177.6
2. Fabricated Metal Products		26,539	116.4	6,901	7,989	115.8	155.4	10,600	145.5	2,611	75.4	121.6
Machinery & Equipment Industries	3. Industrial Machinery	259,144	125.1	74,932	73,307	97.8	143.5	98,538	138.4	25,231	90.0	125.5
	(of which construction machinery)	7,510	138.2	2,234	2,201	98.5	230.2	3,149	229.9	948	173.0	229.0
	(of which dies and molds)	27,574	89.6	6,922	6,624	95.7	104.6	9,038	104.6	2,414	89.3	104.8
	4. Motor Vehicles	201,119	115.0	53,976	63,095	116.9	148.3	86,671	143.4	23,576	88.4	131.8
	(of which auto parts)	139,936	120.6	38,169	41,321	108.3	133.8	57,940	133.7	16,619	103.0	133.6
	5. Electrical Machinery	37,082	141.1	11,536	12,075	104.7	174.7	19,544	198.1	7,469	138.8	252.7
	6. Precision Machinery	25,267	128.9	6,251	7,669	122.7	140.3	9,395	127.2	1,726	52.1	89.9
	5-6. Electrical & Precision Machinery (Sub Total)	62,349	135.9	17,787	19,744	111.0	159.5	28,939	167.7	9,195	105.8	188.6
	7. Aircraft, Shipbuilding & Transport equipment	23,840	79.3	5,356	8,394	156.7	143.2	10,566	142.8	2,172	90.8	141.3
	(of which aircraft)	11,610	70.7	2,288	4,717	206.2	136.1	5,839	148.6	1,122	122.2	241.8
3-7. Sub total		546,452	119.3	152,051	164,540	108.2	147.1	224,714	143.8	60,174	91.4	135.5
8. Other Machinery & Equipment		16,396	133.4	4,159	5,201	125.1	138.1	7,029	138.5	1,828	86.0	139.5
9. Government, Public Agencies & Schools		3,083	111.6	1,682	384	22.8	79.8	441	85.3	57	38.3	158.3
10. Others		11,019	115.7	2,756	2,898	105.2	101.6	3,729	106.9	831	99.3	130.9
11. Trading Companies		8,102	114.4	1,863	2,339	125.6	88.2	2,890	90.5	551	62.3	101.8
1-11. Domestic Total		629,369	118.6	174,397	189,355	108.6	144.8	257,865	142.3	68,510	90.7	135.8
12. Foreign		1,016,185	141.2	290,662	303,090	104.3	133.6	397,643	128.2	94,553	88.1	113.6
1-12. Grand Total		1,645,554	131.6	465,059	492,445	105.9	137.7	655,508	133.4	163,063	89.2	122.0
(of which: NC machines)		1,616,216	131.9	456,594	485,092	106.2	138.2	645,270	133.7	160,178	89.0	121.7
Sales		1,467,285	114.6	394,003	459,189	116.5	131.9	578,798	132.0	119,609	58.5	132.3
(of which: NC machines)		1,442,889	115.0	387,852	452,007	116.5	132.3	570,080	132.5	118,073	58.6	133.1
Order Backlog		694,231	132.9	694,231	727,486	104.8	136.8	770,940	134.2	770,940	106.0	134.2
(of which: NC machines)		670,808	132.8	670,808	703,892	104.9	136.8	745,997	134.0	745,997	106.0	134.0

NET NEW ORDERS BY DESTINATION

(Value in Millions of yen)

2018		Jan.		Feb.		Mar.		Apr.		May		Jun.		July		Aug.		Sep.		Oct.		Nov.		Dec.		Total			
			%		%		%		%		%		%		%		%		%		%		%		%	2018	%		
Asia	East Asia	Korea	3,745	111.9	4,537	155.0	4,352	129.8	3,499	110.6																	16,133	126.1	
		Taiwan	2,909	96.8	1,986	152.1	4,015	198.7	2,741	106.4																		11,651	130.8
		China	34,844	168.4	28,389	119.6	35,897	97.8	30,454	97.7																		129,584	115.4
		Other	-1	-	0	-	3	21.4	1	7.1																		3	-
		East Asia Total	41,497	153.6	34,912	124.8	44,267	105.2	36,695	99.4																		157,371	117.4
	Other Asia	Thailand	2,639	177.2	2,256	147.0	3,668	154.2	2,210	152.3																		10,773	157.2
		Malaysia	781	302.7	926	253.0	1,030	102.8	864	304.2																		3,601	188.5
		Singapore	1,049	253.4	744	140.4	1,361	205.3	538	138.3																		3,692	185.0
		Philippine	266	161.2	505	267.2	195	80.6	663	275.1																		1,629	194.6
		Indonesia	532	86.4	500	122.9	817	119.1	544	88.9																		2,393	103.1
Vietnam		1,042	111.2	1,676	212.2	685	63.7	943	117.9																		4,346	120.7	
India		3,802	210.6	5,661	336.4	2,729	118.0	3,654	67.3																		15,846	141.1	
Other	64	6400.0	1	50.0	2	100.0	5	10.0																		72	130.9		
Other Asia Total	10,175	179.0	12,269	223.0	10,487	125.4	9,421	101.7																			42,352	147.0	
Sub Total	51,672	158.0	47,181	141.0	54,754	108.5	46,116	99.8																			199,723	122.7	
Europe	EU	Germany	4,461	177.4	5,824	139.9	4,702	109.7	4,758	148.9																	19,745	139.4	
		U. K.	1,926	105.0	2,320	126.7	2,303	144.7	1,894	109.2																	8,443	120.7	
		Italy	3,247	131.6	3,067	117.2	3,136	134.7	3,062	130.9																		12,512	128.3
		France	2,849	207.8	1,427	106.2	2,007	104.9	2,626	113.0																		8,909	128.1
		Central Europe	3,072	186.6	2,280	143.8	2,027	161.0	1,310	93.4																		8,689	147.4
		Other	3,369	115.3	4,024	171.7	3,254	118.2	2,718	122.3																		13,365	130.5
		Sub Total	18,924	148.3	18,942	136.4	17,429	123.3	16,368	123.8																		71,663	132.7
	Other West Europe	Turkey	863	137.0	1,038	537.8	930	320.7	1,216	89.9																		4,047	164.2
		Switzerland	904	178.0	857	151.4	923	149.4	850	131.4																		3,534	151.1
		East Europe	56	47.1	302	686.4	1,053	503.8	272	555.1																		1,683	399.8
		Russia - Other	646	142.6	777	110.1	246	127.5	318	99.4																		1,987	118.8
		Sub Total	21,579	148.6	22,108	143.6	20,787	133.6	19,171	122.7																		83,645	136.9
		Other East Europe	1,953	164.3	2,087	275.0	2,059	201.9	2,213	108.6																			8,312
North America	U. S. A.	21,297	146.1	22,807	126.4	26,370	130.1	25,177	135.9																		95,651	133.9	
	Canada	1,144	162.0	1,284	113.5	1,218	142.3	977	129.6																		4,623	134.1	
	Mexico	1,039	67.8	2,087	131.8	2,828	226.4	1,577	112.6																		7,531	130.6	
	Sub Total	23,480	139.6	26,178	126.1	30,416	135.9	27,731	134.1																		107,805	133.7	
S & C America	Brazil	801	88.1	671	132.3	346	62.2	520	211.4																		2,338	105.4	
	Other	385	663.8	135	964.3	269	208.5	53	35.1																		842	239.2	
	Sub Total	1,186	122.6	806	154.7	615	89.8	573	144.3																		3,180	123.7	
Oceania	Australia	411	103.3	421	163.2	485	94.5	478	235.5																		1,795	130.8	
	Other	63	315.0	71	-	-3	-	111	-																		242	654.1	
Sub Total	474	113.4	492	190.7	482	90.9	589	290.1																			2,037	144.6	
Middle East	293	55.4	186	93.0	217	39.4	293	329.2																			989	72.2	
Africa	99	220.0	47	64.4	38	40.4	80	148.1																			264	99.2	
Grand Total	98,783	149.7	96,998	137.2	107,309	118.9	94,553	113.6																			397,643	128.2	
Of which NC	97,344	148.8	95,738	136.6	106,768	120.0	93,159	112.6																			393,009	127.9	

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

Japan Machine Tool Builders' Association