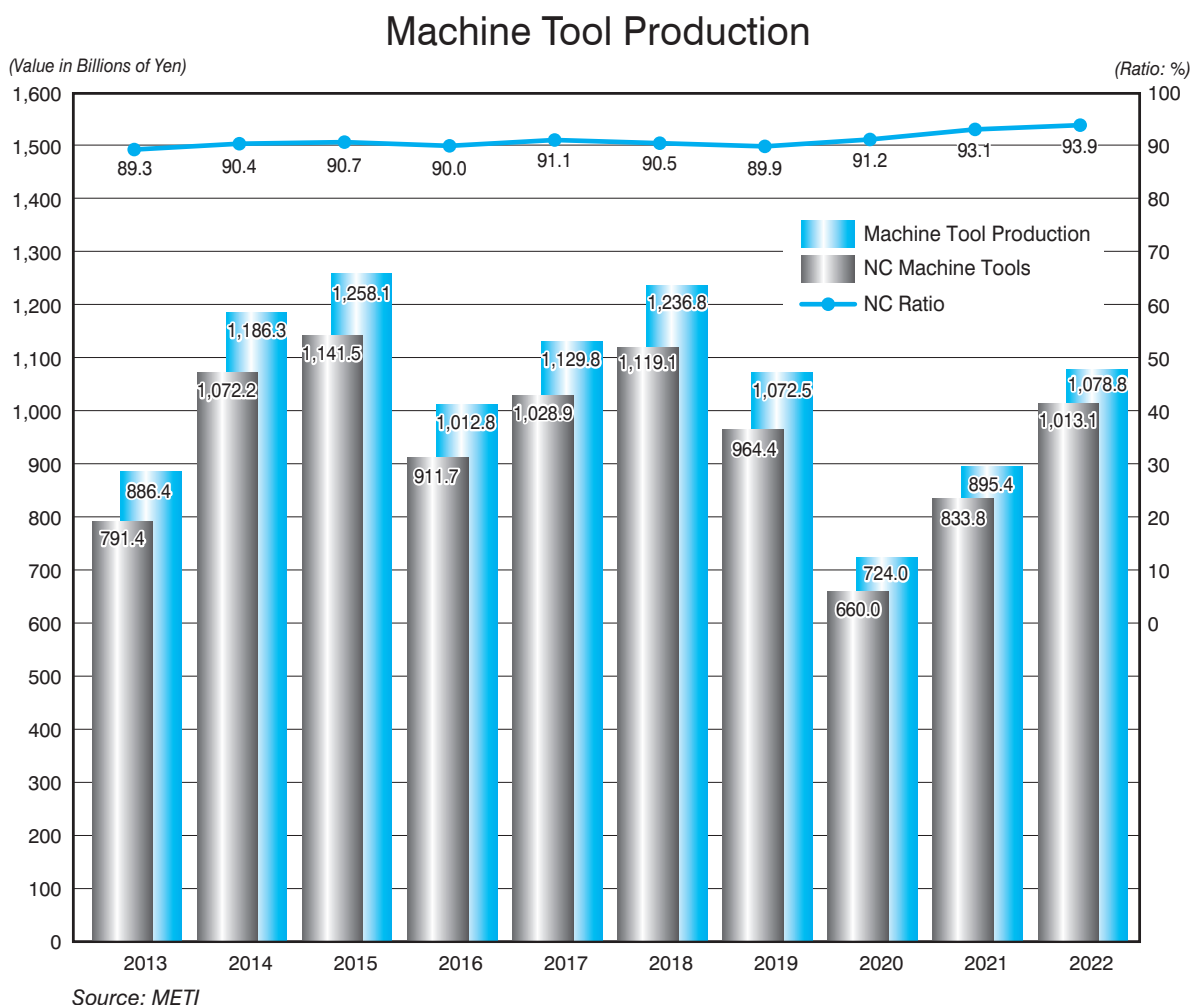
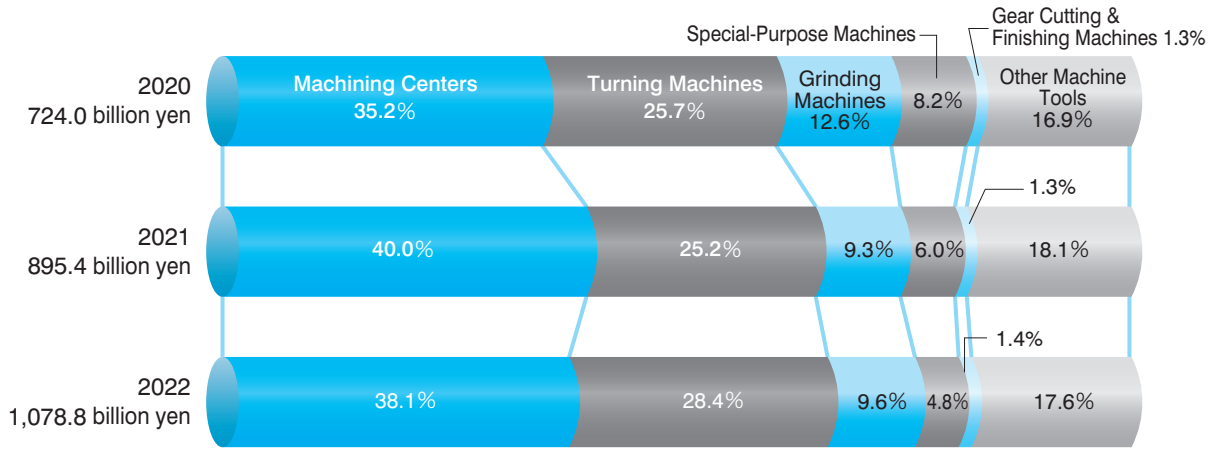


Trends in Productions of Machine Tools



- Production statistics are reported in a publication entitled Survey of Industrial Production. Issued by the Ministry of Economy, Trade and Industry, this publication covers business facilities with 50 or more employees.
- Machine tool production in 2022 was 1,078.8 billion yen, marking the year-on-year increase for the second consecutive year (up 20.5%) and surpassing 1 trillion yen for the first time in three years. Of this, the production value of NC machine tools was 1,013.1 billion yen (21.5% compared to the previous year), and the NC ratio was a record high of 93.9% for the second consecutive year.
- The production of machine tools continued to grow at a slower rate compared to orders, as the supply of parts continued to be difficult due to the rapid recovery in demand from the Covid-19 pandemic, and the lead time to shipment increased. Although the trend toward long delivery times still remains today, the procurement situation is gradually improving.
- Viewed by the category, machining centers posted 411.1 billion yen, up 14.6% YOY, NC Lathe posted 280.8 billion yen, up 36.9% YOY, and NC EDM posted 42.4 billion yen, up 20.0% YOY, thus we can see the year-on-year increase in most category.
- Broken down by the share of the category within the total value of production, machining centers accounted for 38.1% of total 2022 machine tool production value, followed by lathes at 28.4%, other machine tools at 17.6%, grinding machines at 9.6%, special purpose machines at 4.8%, and gear cutting & finishing machines at 1.4%.
- According to the World Machine Tool Output & Consumption Survey 2022 by Gardner Publications, Inc, China was the first place in the value of production of machine tools (total amount of metal cutting and forming) for fourteen consecutive years. Japan remained in second place from the previous year.

Machine Tool Production by Type of Machine (Share)



Source: METI

Machine Tool Production by Type of Machine (Year Result)

(Value in Millions of Yen)

Type of Machine	Year	2020		2021		2022			
		Units	Value	Units	Value	Units	Value	'22/ '21 (%)	Share (%)
Turning Machines		10,603	185,949	14,266	225,702	18,452	305,953	135.6	28.4
NC Turning Machines		9,566	168,292	12,995	205,094	16,973	280,775	136.9	26.0
Grinding Machines		3,453	91,490	3,364	83,574	4,074	104,104	124.6	9.6
NC Grinding Machines		2,508	75,700	2,447	69,627	2,957	87,038	125.0	8.1
Gear Cutting & Finishing Machines		270	9,718	367	11,877	419	15,363	129.4	1.4
NC Gear Cutting & Finishing Machines		170	7,933	217	9,354	295	12,917	138.1	1.2
Special-Purpose Machines		2,736	59,567	2,049	53,683	1,817	52,270	97.4	4.8
NC Special-Purpose Machines		1,194	40,686	1,057	38,418	1,000	39,801	103.6	3.7
Machining Centers		19,557	255,073	33,612	358,579	30,938	411,050	114.6	38.1
Vertical		16,707	151,494	29,328	224,207	25,504	232,874	103.9	21.6
Horizontal		2,478	80,712	3,808	108,292	4,855	145,956	134.8	13.5
Other Machining Centers		372	22,867	476	26,080	579	32,220	123.5	3.0
Other Machine Tools		8,950	122,197	13,943	161,994	14,304	190,093	117.3	17.6
NC Drilling Machines		80	1,829	63	1,513	62	1,451	95.9	0.1
NC Boring Machines		170	8,647	153	7,488	163	7,760	103.6	0.7
NC Milling Machines		337	3,737	322	3,511	381	4,413	125.7	0.4
NC Electric Discharge Machines		1,956	23,926	2,925	35,359	3,273	42,438	120.0	3.9
Other NC Metal Cutting Machine Tools		2,165	74,141	2,505	104,863	3,036	125,453	119.6	11.6
Other Machine Tools		4,242	9,917	7,975	9,260	7,389	8,578	92.6	0.8
Total		45,569	723,994	67,601	895,409	70,004	1,078,833	120.5	100.0
NC Total		37,703	659,964	56,296	833,806	59,078	1,013,096	121.5	93.9

Source: METI

Note: Year-on-year (%) and Share (%) are based on value