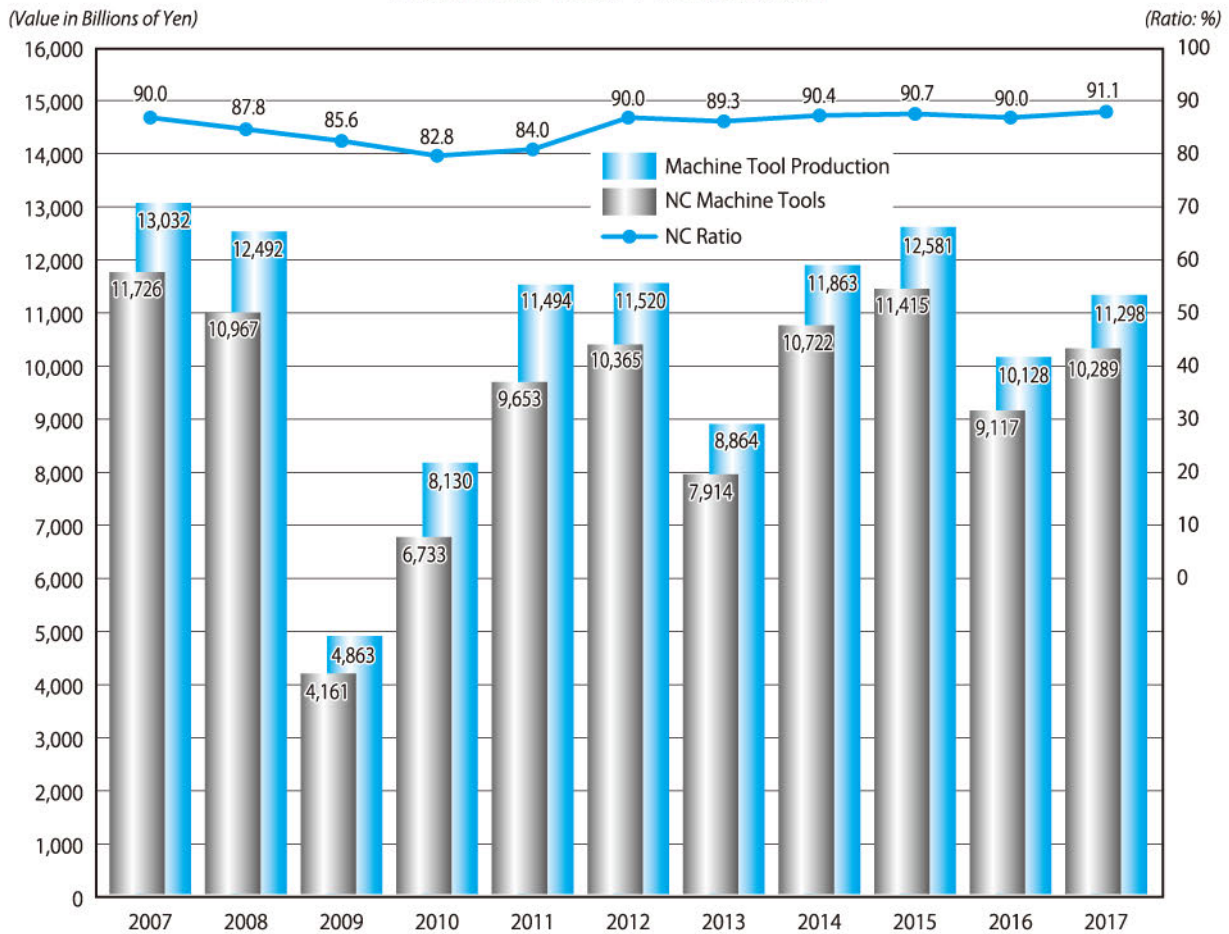


Trends in Productions of Machine Tools

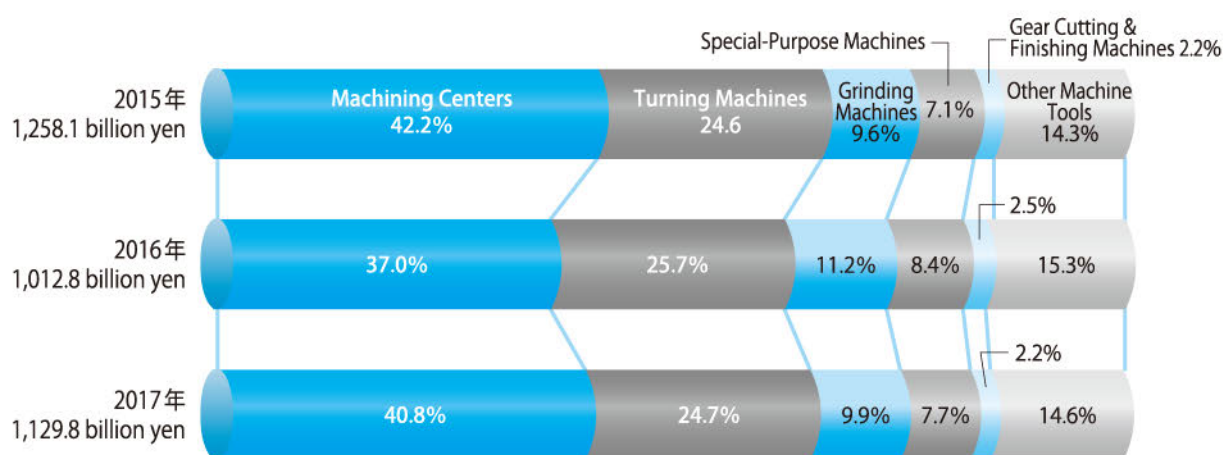
Machine Tool Production



Source: METI

- 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.
- The value of production of machine tools in 2017 amounted to ¥1,129.8 billion, up 11.6% over the previous year and marked the first year-on-year growth in two years. This topped 1 trillion yen for four consecutive years. The value of production of NC machine tools amounted to ¥1,028.9 billion, up 12.9% over the previous year. This topped 1 trillion yen for the first time in two years.
- Viewed by the category, 5 among 6 categories showed increase over the last year, thus machining centers posted 460.5 billion yen, up 22.9%, turning machines posted 279.5 billion yen, up 7.4%, special-purpose machines posted 87.3 billion yen, up 2.6%, gear cutting & finishing machines posted 25.4 billion yen, up 2.2%, and other machine tools posted 165.3 billion yen, up 6.8%. Only grinding machines showed decrease from the last year, as they posted 111.8 billion yen, down 1.2%
- Broken down by the share of the category within the total value of production, machining centers accounted for 40.8% of total 2017 machine tool production value, followed by turning machines at 24.7%, other machine tools at 14.6%, grinding machines at 9.9%, special purpose machines at 7.7%, and gear cutting & finishing machines at 2.2%.
- According to the World Machine Tool Output & Consumption Survey 2017, which was issued in May 2018 by Gardner Publications, Inc, China was the first place in the value of production of machine tools, for nine consecutive years. Japan has surpassed Germany for the first time in two years and became the second place. Germany marked the third place.

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	2015		2016		2017			
		Units	Value	Units	Value	Units	Value	'16/'15 (%)	Share (%)
Turning Machines		19,110	309,384	16,462	260,301	18,239	279,548	107.4	24.7
NC Turning Machines		16,818	271,375	14,641	227,986	16,136	243,493	106.8	(21.6)
Grinding Machines		5,383	120,908	4,827	113,250	4,762	111,849	98.8	9.9
NC Grinding Machines		3,627	92,739	3,290	88,570	3,230	84,952	95.9	(7.5)
Gear Cutting & Finishing Machines		824	27,115	678	24,822	746	25,370	102.2	2.2
NC Gear Cutting & Finishing Machines		611	23,562	531	22,130	604	22,683	102.5	(2.0)
Special-Purpose Machines		4,032	89,800	3,656	85,070	3,923	87,299	102.6	7.7
NC Special-Purpose Machines		1,722	67,005	1,537	59,762	1,657	64,387	107.7	(5.7)
Machining Centers		57,944	531,100	28,790	374,622	47,022	460,461	122.9	40.8
Vertical		52,425	349,769	24,202	220,673	41,956	298,834	135.4	(26.4)
Horizontal		4,742	135,658	3,967	116,271	4,457	126,780	109.0	(11.2)
Other Machining Centers		777	45,673	621	37,678	609	34,847	92.5	(3.1)
Other Machine Tools		14,808	179,780	13,578	154,745	13,952	165,296	106.8	14.6
NC Drilling Machines		353	3,645	190	2,735	157	2,374	86.8	(0.2)
NC Boring Machines		318	15,092	248	11,429	180	8,397	73.5	(0.7)
NC Milling Machines		667	6,532	658	6,520	600	6,118	93.8	(0.5)
NC Electric Discharge Machines		3,162	38,359	2,573	32,648	3,096	38,004	116.4	(3.4)
Other NC Metal Cutting Machine Tools		4,137	92,087	3,820	85,277	4,248	97,992	114.9	(8.7)
Other Machine Tools		6,171	24,065	6,089	16,136	5,671	12,411	76.9	1.1
Total		102,101	1,258,087	67,991	1,012,810	88,644	1,129,823	111.6	100.0
NC Total		89,359	1,141,496	56,278	911,679	76,930	1,028,861	112.9	(91.1)

Source: METI

(): Share of NC Machine Tools