

## Production and Sales of Machine tool Accessory on October – December,2018

(Value in Thousands of Yen)

Items		Production		Comparison (%) to the year earlier	Sales		Comparison (%) to the year earlier
		Quantity	Value		Quantity	Value	
Elements	Clutches & Brakes	11,389,006	5,589,729	101	11,489,415	5,863,697	99
	Ball Screws	451,421	10,960,862	116	468,963	11,853,424	116
	Liner motion guides	2,456,054	18,793,186	116	2,229,993	18,874,707	113
	Spindles	762	342,380	108	820	370,766	108
	Coupling	755,882	2,213,719	110	682,072	1,825,391	100
	Other	4,099	34,260	124	4,345	36,938	129
	Subtotal	15,057,224	37,934,136	113	14,875,608	38,824,923	111
Work Holding	Hand Operated	3,449	450,696	110	3,565	466,553	110
Devices	Power Operated	30,193	2,740,520	118	30,468	2,447,901	110
	Special Design Chucks	344	95,014	90	456	270,110	163
	Actuators for Power Operated	7,945	1,037,320	117	7,664	777,571	103
	Live Centers	4,649	140,200	113	4,769	199,017	124
	Other Work Holding	10,122	747,407	126	9,348	693,789	108
	Subtotal	56,702	5,211,157	117	56,270	4,854,941	111
Tool Holders	General purpose Tool Holders	66,064	371,818	105	63,743	352,991	98
	Tool Holders for NC machine tools	406,596	3,488,251	96	419,572	3,548,319	101
	Tool Holders for lathers	3,781	84,638	117	4,002	80,129	112
	Tool Holders for special	8,125	103,132	187	6,473	64,574	107
	Other Tool Holders	30,749	399,496	104	32,495	409,577	111
	Subtotal	515,315	4,447,335	99	526,285	4,455,590	102
Attachments and Accessories	Attachments for indexing	4,877	5,484,776	95	4,571	4,925,686	93
	Machine Vice	4,088	490,221	120	3,573	561,833	111
	Other Attached	66,792	903,840	106	67,140	909,529	115
	Other Accessories	193,768	3,434,046	101	155,742	3,984,193	103
	Subtotal	269,525	10,312,883	99	231,026	10,381,241	99
T o t a l		15,898,766	57,905,511	110	15,689,189	58,516,695	108

Although considered as the factory–shipments price about the amount of production, and the amount of shipment, it will change into the amount of production, and the amount of sales from January, 2004, and both producer–selling prices or contract prices will estimate, and it will enter.