

# Appendix Tables

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Please note:

Apparent consumption = total consumption of machine tools in the named market

Total investment = spending on all assets by the nine primary machine tool purchasing industries

**Table 1 - Machine tool consumption**

(% of the world)

	2008	2018	2023
China	24.7	33.9	31.0
India	2.5	3.9	4.3
Indonesia	0.7	0.6	1.0
Japan	10.4	7.5	7.9
S. Korea	4.8	4.4	4.6
Malaysia	0.9	0.6	0.8
Taiwan	3.2	2.5	2.4
Thailand	1.4	1.3	1.7
Vietnam	0.9	1.4	2.1
<b>Asia</b>	<b>49.5</b>	<b>56.1</b>	<b>55.8</b>
Brazil	3.0	0.9	1.1
Canada	1.5	1.8	1.8
Mexico	1.9	2.6	2.4
US	10.3	11.2	11.6
<b>Americas</b>	<b>16.6</b>	<b>16.5</b>	<b>16.8</b>
Austria	1.2	1.1	1.2
Czech Republic	1.0	0.8	0.8
France	2.4	1.7	1.8
Germany	12.3	9.1	8.9
Hungary	0.4	0.3	0.4
Italy	6.7	5.9	5.4
Poland	1.1	1.2	1.3
Russia	2.6	2.2	2.4
Slovakia	0.3	0.3	0.4
Spain	1.5	1.0	1.0
Switzerland	2.0	1.6	1.5
Turkey	1.5	1.3	1.3
UK	0.9	1.0	1.0
Europe exc Russia	31.4	25.2	24.9
<b>Europe</b>	<b>33.9</b>	<b>27.5</b>	<b>27.3</b>

The percent shares are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Note the US consumption data has been revised since our Autumn 2011 report as the previous shipments series used in the calculation is no longer published

**Table 2 - Machine tool consumption**

(Levels in local currency bn)

	2018	2019	2020	2021	2022	2023
China	192.7	154.1	101.6	150.2	157.1	164.9
India	227.4	182.1	157.8	181.2	204.6	233.9
Indonesia	7939.5	9279.2	8397.4	9549.5	10445.4	11328.9
Japan	710.9	658.4	448.5	634.9	651.5	664.5
S. Korea	4183.2	3695.9	3153.9	3689.7	3915.8	4134.6
Malaysia	2.1	2.2	2.0	2.2	2.5	2.6
Taiwan	64.0	53.5	45.8	53.6	56.0	58.0
Thailand	37.1	35.4	31.5	35.6	38.0	40.1
Vietnam	26710.4	28825.9	26515.0	29949.7	33332.7	37072.4
Brazil	2.79	2.89	2.59	2.89	3.11	3.29
Canada	1.97	1.75	1.41	1.71	1.75	1.80
Mexico	42.9	34.3	29.7	31.4	33.2	35.4
US	9.6	9.7	5.7	8.2	8.7	8.9
Austria	0.79	0.75	0.69	0.75	0.79	0.81
Czech Republic	15.10	13.4	11.2	12.1	12.8	13.4
France	1.21	1.19	0.94	1.16	1.21	1.24
Germany	6.64	7.0	4.9	5.8	6.0	6.1
Hungary	72.72	97.1	72.0	82.1	86.9	91.7
Italy	4.29	3.89	2.62	3.45	3.58	3.69
Poland	3.71	3.30	2.91	3.27	3.54	3.80
Russia	119.77	115.1	87.9	98.6	113.6	119.2
Slovakia	0.23	0.28	0.23	0.26	0.28	0.29
Spain	0.73	0.69	0.52	0.64	0.69	0.72
Switzerland	1.32	1.16	0.87	1.07	1.12	1.16
Turkey	5.23	4.50	4.07	4.46	4.94	5.65
UK	0.65	0.61	0.47	0.59	0.60	0.61

**Table 3 - Machine tool consumption**

Local currency - % change

	2018	2019	2020	2021	2022	2023
China	-4.8	-20.1	-34.0	47.8	4.6	4.9
India	56.4	-19.9	-13.3	14.8	12.9	14.3
Indonesia	36.8	16.9	-9.5	13.7	9.4	8.5
Japan	11.5	-7.4	-31.9	41.6	2.6	2.0
S. Korea	-7.5	-11.6	-14.7	17.0	6.1	5.6
Malaysia	3.0	7.2	-10.5	12.1	9.2	7.5
Taiwan	18.8	-16.4	-14.4	17.0	4.5	3.6
Thailand	19.8	-4.5	-11.0	13.1	6.6	5.6
Vietnam	6.6	7.9	-8.0	13.0	11.3	11.2
Brazil	45.1	3.4	-10.2	11.6	7.7	5.7
Canada	10.3	-11.2	-19.4	21.4	2.7	2.4
Mexico	-5.4	-20.0	-13.4	5.5	5.8	6.7
US	13.7	0.9	-41.3	43.6	5.8	3.3
Austria	14.7	-4.6	-8.1	8.4	4.5	3.6
Czech Republic	15.9	-11.5	-16.3	8.2	6.0	4.5
France	10.1	-1.4	-20.7	23.1	3.8	3.0
Germany	11.6	5.5	-30.1	18.2	3.1	2.2
Hungary	-0.4	33.5	-25.9	14.1	5.8	5.5
Italy	16.2	-9.4	-32.5	31.5	3.7	3.1
Poland	19.8	-11.2	-11.9	12.6	8.1	7.5
Russia	22.2	-3.9	-23.7	12.2	15.2	4.9
Slovakia	5.7	20.4	-18.6	14.8	5.3	4.0
Spain	0.3	-5.2	-24.8	23.2	7.5	4.0
Switzerland	30.7	-11.7	-25.6	24.1	4.2	3.5
Turkey	22.0	-13.9	-9.6	9.5	10.8	14.3
UK	11.0	-5.2	-22.6	23.9	1.7	1.5

**Table 4 - Machine tool consumption**

(Levels in US\$bn)

	2018	2019	2020	2021	2022	2023
China	29.1	22.3	14.7	21.7	22.7	23.9
India	3.3	2.6	2.2	2.6	2.9	3.3
Indonesia	0.6	0.7	0.6	0.7	0.7	0.8
Japan	6.4	6.0	4.1	5.8	6.0	6.1
S. Korea	3.8	3.2	2.7	3.2	3.4	3.5
Malaysia	0.5	0.5	0.5	0.5	0.6	0.6
Taiwan	2.1	1.7	1.5	1.7	1.8	1.9
Thailand	1.1	1.1	1.0	1.1	1.2	1.3
Vietnam	1.2	1.2	1.1	1.3	1.4	1.6
<b>Asia</b>	<b>48.2</b>	<b>39.4</b>	<b>28.5</b>	<b>38.7</b>	<b>40.8</b>	<b>43.0</b>
Brazil	0.8	0.7	0.7	0.7	0.8	0.8
Canada	1.5	1.3	1.1	1.3	1.3	1.4
Mexico	2.2	1.8	1.5	1.6	1.7	1.8
US	9.6	9.7	5.7	8.2	8.7	8.9
<b>Americas</b>	<b>14.2</b>	<b>13.6</b>	<b>9.0</b>	<b>11.8</b>	<b>12.5</b>	<b>13.0</b>
Austria	0.9	0.8	0.8	0.8	0.9	0.9
Czech Republic	0.7	0.6	0.5	0.5	0.6	0.6
France	1.4	1.3	1.1	1.3	1.3	1.4
Germany	7.8	7.8	5.5	6.5	6.7	6.8
Hungary	0.3	0.3	0.2	0.3	0.3	0.3
Italy	5.1	4.4	2.9	3.9	4.0	4.1
Poland	1.0	0.9	0.8	0.9	0.9	1.0
Russia	1.9	1.8	1.4	1.5	1.8	1.8
Slovakia	0.3	0.3	0.3	0.3	0.3	0.3
Spain	0.9	0.8	0.6	0.7	0.8	0.8
Switzerland	1.3	1.2	0.9	1.1	1.1	1.2
Turkey	1.1	0.8	0.7	0.8	0.9	1.0
UK	0.9	0.8	0.6	0.8	0.8	0.8
Europe ex-Russia	21.7	20.0	14.8	17.8	18.5	19.2
<b>Europe</b>	<b>23.6</b>	<b>21.8</b>	<b>16.1</b>	<b>19.3</b>	<b>20.3</b>	<b>21.1</b>
<b>World</b>	<b>86.0</b>	<b>74.7</b>	<b>53.6</b>	<b>69.8</b>	<b>73.6</b>	<b>77.1</b>

All MT figures are calculated using current exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date  
World is defined as the aggregate of the 26 countries forecast

**Table 5 - Machine tool consumption**

Dollars - % change

	2018	2019	2020	2021	2022	2023
China	-2.7	-23.5	-34.0	47.8	4.6	4.9
India	48.9	-22.2	-13.3	14.8	12.9	14.3
Indonesia	28.6	17.6	-9.5	13.7	9.4	8.5
Japan	13.3	-6.2	-31.9	41.6	2.6	2.0
S. Korea	-4.9	-16.6	-14.7	17.0	6.1	5.6
Malaysia	9.7	4.5	-10.5	12.1	9.2	7.5
Taiwan	20.0	-18.5	-14.4	17.0	4.5	3.6
Thailand	25.8	-0.7	-11.0	13.1	6.6	5.6
Vietnam	5.2	6.9	-8.0	13.0	11.3	11.2
<b>Asia</b>	<b>3.5</b>	<b>-18.3</b>	<b>-27.7</b>	<b>35.8</b>	<b>5.4</b>	<b>5.5</b>
Brazil	26.8	-4.3	-10.2	11.6	7.7	5.7
Canada	10.4	-13.3	-19.4	21.4	2.7	2.4
Mexico	-7.0	-20.0	-13.4	5.5	5.8	6.7
US	13.7	0.9	-41.3	43.6	5.8	3.3
<b>Americas</b>	<b>10.1</b>	<b>-4.2</b>	<b>-33.8</b>	<b>32.1</b>	<b>5.6</b>	<b>3.8</b>
Austria	19.9	-9.5	-8.1	8.4	4.5	3.6
Czech Republic	24.7	-16.1	-16.3	8.2	6.0	4.5
France	15.2	-6.6	-20.7	23.1	3.8	3.0
Germany	16.7	-0.1	-30.1	18.2	3.1	2.2
Hungary	1.2	24.1	-25.9	14.1	5.8	5.5
Italy	21.5	-14.1	-32.5	31.5	3.7	3.1
Poland	25.4	-16.4	-11.9	12.6	8.1	7.5
Russia	13.8	-6.9	-23.7	12.2	15.2	4.9
Slovakia	10.6	14.1	-18.6	14.8	5.3	4.0
Spain	4.9	-10.2	-24.8	23.2	7.5	4.0
Switzerland	31.6	-13.1	-25.6	24.1	4.2	3.5
Turkey	-7.7	-26.8	-9.6	9.5	10.8	14.3
UK	15.0	-9.3	-22.6	23.9	1.7	1.5
Europe ex-Russia	16.8	-7.9	-26.0	20.3	4.3	3.6
<b>Europe</b>	<b>16.6</b>	<b>-7.8</b>	<b>-25.8</b>	<b>19.6</b>	<b>5.2</b>	<b>3.7</b>
<b>World</b>	<b>7.9</b>	<b>-13.1</b>	<b>-28.3</b>	<b>30.3</b>	<b>5.4</b>	<b>4.7</b>

All MT figures are calculated using current exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date  
Note: World is defined as the aggregate of the 26 countries forecast

Note the US consumption data has been revised since our Autumn 2011 report as the previous shipments series used in the calculation is no longer published

**Table 6 - Machine tool consumption**

(Levels in Euro bn)

	2018	2019	2020	2021	2022	2023
China	24.7	19.9	13.1	19.4	20.3	21.3
India	2.8	2.3	2.0	2.3	2.6	3.0
Indonesia	0.5	0.6	0.5	0.6	0.7	0.7
Japan	5.5	5.4	3.7	5.2	5.3	5.4
S. Korea	3.2	2.8	2.4	2.8	3.0	3.2
Malaysia	0.4	0.5	0.4	0.5	0.5	0.6
Taiwan	1.8	1.5	1.3	1.5	1.6	1.7
Thailand	1.0	1.0	0.9	1.0	1.1	1.2
Vietnam	1.0	1.1	1.0	1.2	1.3	1.4
<b>Asia</b>	<b>40.8</b>	<b>35.2</b>	<b>25.4</b>	<b>34.6</b>	<b>36.4</b>	<b>38.4</b>
Brazil	0.6	0.7	0.6	0.7	0.7	0.7
Canada	1.3	1.2	0.9	1.1	1.2	1.2
Mexico	1.9	1.6	1.4	1.5	1.5	1.6
US	8.2	8.7	5.1	7.3	7.7	8.0
<b>Americas</b>	<b>12.0</b>	<b>12.1</b>	<b>8.0</b>	<b>10.6</b>	<b>11.2</b>	<b>11.6</b>
Austria	0.8	0.8	0.7	0.8	0.8	0.8
Czech Republic	0.6	0.5	0.4	0.5	0.5	0.5
France	1.2	1.2	0.9	1.2	1.2	1.2
Germany	6.6	7.0	4.9	5.8	6.0	6.1
Hungary	0.2	0.3	0.2	0.3	0.3	0.3
Italy	4.3	3.9	2.6	3.5	3.6	3.7
Poland	0.9	0.8	0.7	0.8	0.8	0.9
Russia	1.6	1.6	1.2	1.4	1.6	1.6
Slovakia	0.2	0.3	0.2	0.3	0.3	0.3
Spain	0.7	0.7	0.5	0.6	0.7	0.7
Switzerland	1.1	1.0	0.8	1.0	1.0	1.0
Turkey	0.9	0.7	0.6	0.7	0.8	0.9
UK	0.7	0.7	0.5	0.7	0.7	0.7
Europe ex-Russia	19.9	19.4	14.3	17.2	18.0	18.7
<b>Europe</b>	<b>20.0</b>	<b>19.4</b>	<b>14.4</b>	<b>17.2</b>	<b>18.1</b>	<b>18.8</b>
<b>World</b>	<b>72.8</b>	<b>66.7</b>	<b>47.9</b>	<b>62.4</b>	<b>65.7</b>	<b>68.8</b>

All MT figures are calculated using current exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Note: World is defined as the aggregate of the 26 countries forecast

**Table 7 - Machine tool consumption**

Euros - % change

	2018	2019	2020	2021	2022	2023
China	-7.0	-19.2	-34.0	47.8	4.6	4.9
India	42.4	-17.9	-13.3	14.8	12.9	14.3
Indonesia	23.0	24.1	-9.5	13.7	9.4	8.5
Japan	8.3	-1.1	-31.9	41.6	2.6	2.0
S. Korea	-9.0	-12.0	-14.7	17.0	6.1	5.6
Malaysia	4.9	10.2	-10.5	12.1	9.2	7.5
Taiwan	14.7	-14.0	-14.4	17.0	4.5	3.6
Thailand	20.3	4.8	-11.0	13.1	6.6	5.6
Vietnam	0.6	12.8	-8.0	13.0	11.3	11.2
<b>Asia</b>	<b>-1.0</b>	<b>-13.8</b>	<b>-27.7</b>	<b>35.8</b>	<b>5.4</b>	<b>5.5</b>
Brazil	21.2	1.0	-10.2	11.6	7.7	5.7
Canada	5.6	-8.5	-19.4	21.4	2.7	2.4
Mexico	-11.1	-15.6	-13.4	5.5	5.8	6.7
US	8.7	6.4	-41.3	43.6	5.8	3.3
<b>Americas</b>	<b>5.3</b>	<b>1.0</b>	<b>-33.8</b>	<b>32.1</b>	<b>5.6</b>	<b>3.8</b>
Austria	14.7	-4.6	-8.1	8.4	4.5	3.6
Czech Republic	19.2	-11.5	-16.3	8.2	6.0	4.5
France	10.1	-1.4	-20.7	23.1	3.8	3.0
Germany	11.6	5.5	-30.1	18.2	3.1	2.2
Hungary	-3.3	31.0	-25.9	14.1	5.8	5.5
Italy	16.2	-9.4	-32.5	31.5	3.7	3.1
Poland	19.9	-11.8	-11.9	12.6	8.1	7.5
Russia	8.8	-1.8	-23.7	12.2	15.2	4.9
Slovakia	5.7	20.4	-18.6	14.8	5.3	4.0
Spain	0.3	-5.2	-24.8	23.2	7.5	4.0
Switzerland	25.9	-8.3	-25.6	24.1	4.2	3.5
Turkey	-11.7	-22.8	-9.6	9.5	10.8	14.3
UK	10.0	-4.3	-22.6	23.9	1.7	1.5
Europe ex-Russia	11.6	-2.8	-26.0	19.8	5.1	3.7
<b>Europe</b>	<b>11.5</b>	<b>-2.8</b>	<b>-25.8</b>	<b>19.6</b>	<b>5.2</b>	<b>3.7</b>
<b>World</b>	<b>3.2</b>	<b>-8.3</b>	<b>-28.3</b>	<b>30.3</b>	<b>5.4</b>	<b>4.7</b>

All MT figures are calculated using current exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Note: World is defined as the aggregate of the 26 countries forecast

Note the US consumption data has been revised since our Autumn 2011 report as the previous shipments series used in the calculation is no longer published

**Table 8 - Austria**

	Apparent Consumption*		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Euro	% change	Billion US\$	% change	2015=100	% change	Billion Euro 2015 prices	% change
2007	0.481	9.6	0.659	19.5	84.803	5.9	4.420	6.5
2008	0.667	38.7	0.981	48.8	82.31	-2.9	4.475	1.2
2009	0.490	-26.5	0.683	-30.4	79.25	-3.7	3.623	-19.0
2010 *	0.358	-26.9	0.475	-30.5	76.45	-3.5	3.965	9.5
2011	0.446	24.6	0.621	30.8	81.73	6.9	4.341	9.5
2012	0.490	9.9	0.630	1.4	91.70	12.2	4.580	5.5
2013	0.540	10.2	0.717	13.9	103.30	12.6	4.573	-0.2
2014	0.456	-15.6	0.606	-15.5	97.76	-5.4	4.682	2.4
2015	0.565	23.9	0.627	3.4	100.00	2.3	4.716	0.7
2016	0.642	13.6	0.710	13.3	105.54	5.5	4.979	5.6
2017	0.689	7.3	0.778	9.6	115.81	9.7	5.336	7.2
2018	0.790	14.7	0.933	19.9	121.21	4.7	5.674	6.3
2019 f	0.754	-4.6	0.844	-9.5	118.33	-2.4	5.511	-2.9
2020 f	0.693	-8.1	0.776	-8.1	115.19	-2.7	5.235	-5.0
2021 f	0.751	8.4	0.841	8.4	120.53	4.6	5.627	7.5
2022 f	0.785	4.5	0.879	4.5	123.73	2.7	5.790	2.9
2023 f	0.813	3.6	0.911	3.6	126.05	1.9	5.924	2.3

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 9 - Austria investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change
2007	1.044	11.1	0.956	7.4	0.616	8.5	0.731	11.0	1.470	7.0	0.219	-25.6	1.032	-5.2	0.113	8.2	0.112	10.9
2008	0.977	-6.4	0.909	-4.9	0.614	-0.5	0.752	2.9	1.732	17.8	0.191	-12.7	1.081	4.8	0.101	-10.4	0.102	-9.4
2009	1.045	6.9	0.883	-2.9	0.611	-0.3	0.756	0.5	1.931	11.5	0.190	-0.3	1.116	3.2	0.079	-22.1	0.066	-35.0
2010	0.766	-26.7	0.816	-7.6	0.608	-0.6	0.739	-2.2	2.011	4.1	0.212	11.3	0.979	-12.3	0.114	45.1	0.094	42.0
2011	0.684	-10.8	0.870	6.6	0.708	16.6	0.843	14.0	1.792	-10.9	0.284	34.0	1.080	10.3	0.098	-13.9	0.083	-11.2
2012	0.853	24.8	0.958	10.1	0.797	12.6	0.927	10.0	1.957	9.2	0.338	18.9	1.351	25.1	0.108	9.6	0.091	9.3
2013	1.127	32.2	1.091	13.9	0.908	13.8	1.070	15.4	2.122	8.5	0.331	-2.1	1.408	4.3	0.129	19.6	0.103	13.3
2014	1.095	-2.9	1.017	-6.7	0.881	-2.9	1.028	-3.9	2.106	-0.8	0.324	-2.0	1.309	-7.1	0.122	-5.2	0.100	-3.4
2015	1.057	-3.5	1.024	0.6	0.873	-0.9	1.014	-1.3	2.117	0.5	0.332	2.6	1.384	5.8	0.156	27.6	0.123	23.1
2016	1.243	17.6	1.081	5.5	0.911	4.4	1.054	3.9	2.264	7.0	0.334	0.5	1.583	14.3	0.154	-1.1	0.120	-2.3
2017	1.173	-5.7	1.222	13.1	0.930	2.1	1.119	6.1	2.346	3.6	0.377	12.7	1.679	6.1	0.172	11.1	0.138	14.9
2018	1.154	-1.6	1.272	4.1	0.959	3.1	1.182	5.7	2.395	2.1	0.389	3.4	1.801	7.2	0.177	2.9	0.150	8.5
2019 f	1.095	-5.2	1.196	-6.0	1.000	4.2	1.223	3.5	2.348	-2.0	0.377	-3.1	1.891	5.0	0.162	-8.4	0.144	-3.8
2020 f	1.045	-4.5	1.152	-3.7	1.020	2.0	1.238	1.2	2.306	-1.8	0.368	-2.3	1.667	-11.8	0.168	4.0	0.150	4.2
2021 f	1.081	3.4	1.207	4.7	1.058	3.8	1.280	3.4	2.361	2.4	0.379	3.0	1.835	10.0	0.173	2.7	0.154	2.4
2022 f	1.101	1.9	1.247	3.3	1.097	3.7	1.322	3.3	2.420	2.5	0.387	2.1	1.804	-1.7	0.177	2.4	0.157	2.3
2023 f	1.113	1.0	1.270	1.9	1.125	2.6	1.352	2.3	2.469	2.0	0.392	1.3	1.824	1.1	0.180	1.7	0.160	1.8

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 10 - Austria investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	1.430	21.2	1.310	17.2	0.845	18.3	1.002	21.1	2.015	16.8	0.300	-18.9	1.414	3.4	0.155	18.1	0.154	21.0
2008	1.437	0.5	1.337	2.1	0.902	6.8	1.107	10.5	2.548	26.5	0.281	-6.3	1.590	12.5	0.149	-3.9	0.150	-2.7
2009	1.456	1.3	1.230	-8.0	0.852	-5.6	1.053	-4.8	2.692	5.6	0.265	-5.5	1.555	-2.2	0.110	-26.2	0.092	-38.5
2010	1.016	-30.2	1.081	-12.1	0.806	-5.4	0.980	-6.9	2.666	-0.9	0.281	5.9	1.298	-16.6	0.152	38.0	0.125	35.1
2011	0.951	-6.3	1.211	12.0	0.986	22.4	1.173	19.7	2.494	-6.5	0.396	40.7	1.503	15.8	0.137	-9.6	0.116	-6.8
2012	1.096	15.2	1.230	1.6	1.024	3.9	1.192	1.6	2.514	0.8	0.434	9.7	1.735	15.4	0.139	1.1	0.117	0.9
2013	1.497	36.6	1.448	17.7	1.205	17.7	1.421	19.2	2.819	12.1	0.439	1.2	1.870	7.8	0.171	23.6	0.137	17.2
2014	1.455	-2.8	1.352	-6.6	1.171	-2.9	1.366	-3.9	2.799	-0.7	0.431	-1.9	1.739	-7.0	0.163	-5.1	0.133	-3.3
2015	1.172	-19.4	1.136	-16.0	0.969	-17.3	1.126	-17.6	2.349	-16.1	0.369	-14.4	1.536	-11.7	0.173	6.6	0.136	2.7
2016	1.375	17.3	1.196	5.2	1.008	4.1	1.166	3.6	2.506	6.7	0.370	0.2	1.751	14.0	0.171	-1.4	0.133	-2.6
2017	1.325	-3.7	1.380	15.4	1.051	4.2	1.264	8.4	2.650	5.8	0.425	15.1	1.897	8.3	0.194	13.4	0.156	17.3
2018	1.364	2.9	1.503	8.9	1.133	7.8	1.396	10.5	2.830	6.8	0.460	8.1	2.127	12.1	0.209	7.6	0.177	13.5
2019 f	1.226	-10.1	1.339	-10.9	1.120	-1.2	1.370	-1.9	2.629	-7.1	0.422	-8.2	2.118	-0.5	0.181	-13.2	0.161	-8.8
2020 f	1.170	-4.5	1.290	-3.7	1.142	2.0	1.386	1.2	2.582	-1.8	0.412	-2.3	1.867	-11.8	0.188	4.0	0.168	4.2
2021 f	1.210	3.4	1.351	4.7	1.185	3.8	1.433	3.4	2.643	2.4	0.425	3.0	2.054	10.0	0.193	2.7	0.172	2.4
2022 f	1.233	1.9	1.396	3.3	1.228	3.7	1.480	3.3	2.709	2.5	0.434	2.1	2.020	-1.7	0.198	2.4	0.176	2.3
2023 f	1.246	1.0	1.422	1.9	1.259	2.6	1.514	2.3	2.764	2.0	0.439	1.3	2.042	1.1	0.201	1.7	0.179	1.8

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.89

Source: Oxford Economics



**Table 11 - Brazil**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Real	% change	Billion US\$	% change	2015=100	% change	Billion Real 2015 prices	% change
2007	3.30	13.5	1.70	26.8	151.36	-3.5	26.88	10.5
2008	4.35	31.8	2.37	39.8	110.52	-27.0	28.67	6.7
2009	2.97	-31.7	1.49	-37.3	104.48	-5.5	23.79	-17.0
2010	3.37	13.5	1.92	28.9	125.03	19.7	28.92	21.6
2011	4.01	18.8	2.40	25.0	154.71	23.7	30.07	4.0
2012	3.91	-2.5	2.00	-16.5	157.14	1.6	28.80	-4.2
2013	4.14	6.0	1.92	-3.9	154.23	-1.8	29.48	2.4
2014	3.49	-15.7	1.48	-22.8	135.11	-12.4	26.25	-11.0
2015	3.08	-11.8	0.92	-37.7	100.00	-26.0	22.42	-14.6
2016	1.96	-36.4	0.56	-39.2	84.05	-15.9	20.11	-10.3
2017	1.92	-1.8	0.60	7.2	84.35	0.4	20.84	3.6
2018	2.79	45.1	0.76	26.8	88.88	5.4	22.04	5.7
2019 f	2.89	3.4	0.73	-4.3	91.74	3.2	22.67	2.9
2020 f	2.59	-10.2	0.66	-10.2	88.88	-3.1	22.11	-2.5
2021 f	2.89	11.6	0.73	11.6	95.73	7.7	22.72	2.8
2022 f	3.11	7.7	0.79	7.7	101.52	6.1	23.87	5.1
2023 f	3.29	5.7	0.83	5.7	106.14	4.5	24.58	2.9

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 12 - Brazil investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Real 2015 prices	% change	Billion Real 2015 prices	% change	Billion Real 2015 prices	% change	Billion Real 2015 prices	% change	Billion Real 2015 prices	% change	Billion Real 2015 prices	% change	Billion Real 2015 prices	% change	Billion Real 2015 prices	% change	Billion Real 2015 prices	% change
2007	55.95	10.9	9.62	3.7	6.38	-7.7	7.91	-3.7	11.49	-14.8	1.54	-27.0	40.92	-10.8	1.15	4.4	4.191	-4.1
2008	38.71	-30.8	7.39	-23.2	4.79	-25.0	6.09	-23.0	8.49	-26.1	0.76	-50.3	22.44	-45.2	0.71	-38.9	4.138	-1.2
2009	30.49	-21.2	7.30	-1.2	4.16	-13.0	5.87	-3.7	7.63	-10.2	0.51	-32.9	22.49	0.2	0.57	-19.2	4.343	5.0
2010	27.25	-10.6	8.76	19.9	4.93	18.3	7.11	21.2	8.39	10.0	0.64	24.5	23.94	6.4	0.48	-16.5	6.963	60.3
2011	29.67	8.9	11.62	32.7	5.55	12.7	8.93	25.5	9.95	18.6	0.66	3.5	29.69	24.0	0.53	11.8	6.468	-7.1
2012	29.78	0.4	11.39	-2.0	5.77	4.0	9.65	8.0	10.38	4.3	0.64	-3.9	34.53	16.3	0.64	21.3	6.767	4.6
2013	28.27	-5.1	10.96	-3.7	5.92	2.5	9.58	-0.6	10.39	0.1	0.64	1.2	41.11	19.1	0.96	48.5	4.996	-26.2
2014	23.83	-15.7	8.99	-18.0	5.27	-10.9	8.58	-10.4	8.72	-16.0	0.59	-7.5	40.31	-1.9	1.11	15.9	5.966	19.4
2015	18.19	-23.7	6.58	-26.8	3.90	-26.1	6.07	-29.2	6.18	-29.2	0.45	-23.6	31.88	-20.9	0.96	-13.8	4.537	-23.9
2016	16.53	-9.1	5.48	-16.8	2.85	-26.9	4.68	-23.0	5.06	-18.1	0.35	-23.9	26.57	-16.7	0.65	-31.6	5.935	30.8
2017	17.03	3.0	5.37	-1.9	2.74	-3.7	4.38	-6.4	5.21	3.0	0.35	1.7	28.55	7.5	0.59	-9.9	6.891	16.1
2018	17.92	5.2	5.67	5.6	2.74	-0.2	4.81	9.9	5.40	3.7	0.34	-2.7	32.68	14.5	0.59	0.0	6.889	0.0
2019 f	17.78	-0.8	6.04	6.4	2.82	3.0	4.99	3.7	5.29	-2.0	0.35	2.3	33.84	3.5	0.54	-7.7	6.356	-7.7
2020 f	16.35	-8.1	5.91	-2.1	2.84	0.6	4.74	-4.9	5.14	-2.9	0.32	-7.5	31.23	-7.7	0.53	-2.2	6.219	-2.2
2021 f	17.65	8.0	6.33	7.1	3.02	6.6	5.16	8.9	5.48	6.6	0.34	5.2	36.23	16.0	0.55	3.4	6.431	3.4
2022 f	18.83	6.7	6.68	5.5	3.22	6.4	5.50	6.6	5.88	7.3	0.37	7.6	39.37	8.7	0.58	4.5	6.719	4.5
2023 f	20.02	6.3	6.92	3.7	3.39	5.3	5.82	5.8	6.22	5.8	0.39	5.8	41.53	5.5	0.60	4.9	7.047	4.9

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 13 - Brazil investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	28.72	23.9	4.94	15.8	3.28	3.1	4.06	7.6	5.90	-4.9	0.79	-18.5	21.00	-0.3	0.59	16.6	2.151	7.1
2008	21.08	-26.6	4.02	-18.5	2.61	-20.4	3.32	-18.3	4.62	-21.6	0.42	-47.3	12.22	-41.8	0.38	-35.2	2.254	4.8
2009	15.24	-27.7	3.65	-9.3	2.08	-20.2	2.93	-11.6	3.81	-17.5	0.26	-38.4	11.25	-8.0	0.29	-25.8	2.172	-3.6
2010	15.48	1.6	4.97	36.2	2.80	34.4	4.04	37.7	4.77	25.0	0.36	41.4	13.60	20.9	0.27	-5.2	3.956	82.1
2011	17.73	14.5	6.95	39.6	3.32	18.6	5.34	32.1	5.95	24.8	0.40	8.9	17.74	30.5	0.32	17.6	3.866	-2.3
2012	15.24	-14.1	5.83	-16.1	2.95	-11.0	4.94	-7.5	5.31	-10.8	0.33	-17.7	17.67	-0.4	0.33	3.8	3.463	-10.4
2013	13.10	-14.0	5.08	-12.8	2.74	-7.1	4.44	-10.0	4.82	-9.3	0.30	-8.3	19.06	7.9	0.44	34.6	2.316	-33.1
2014	10.12	-22.8	3.82	-24.8	2.24	-18.4	3.65	-17.9	3.71	-23.0	0.25	-15.2	17.12	-10.1	0.47	6.2	2.534	9.4
2015	5.46	-46.1	1.98	-48.3	1.17	-47.8	1.82	-50.0	1.85	-50.0	0.14	-46.0	9.57	-44.1	0.29	-39.1	1.362	-46.3
2016	4.74	-13.1	1.57	-20.4	0.82	-30.1	1.34	-26.3	1.45	-21.7	0.10	-27.2	7.62	-20.3	0.19	-34.6	1.703	25.1
2017	5.33	12.5	1.68	7.1	0.86	5.1	1.37	2.1	1.63	12.4	0.11	11.1	8.95	17.3	0.18	-1.6	2.159	26.8
2018	4.90	-8.1	1.55	-7.7	0.75	-12.8	1.32	-4.0	1.48	-9.4	0.09	-15.0	8.95	0.0	0.16	-12.7	1.886	-12.7
2019 f	4.51	-8.1	1.53	-1.4	0.71	-4.6	1.26	-3.9	1.34	-9.3	0.09	-5.3	8.58	-4.1	0.14	-14.6	1.611	-14.6
2020 f	4.14	-8.1	1.50	-2.1	0.72	0.6	1.20	-4.9	1.30	-2.9	0.08	-7.5	7.92	-7.7	0.14	-2.2	1.576	-2.2
2021 f	4.47	8.0	1.60	7.1	0.77	6.6	1.31	8.9	1.39	6.6	0.09	5.2	9.18	16.0	0.14	3.4	1.630	3.4
2022 f	4.77	6.7	1.69	5.5	0.82	6.4	1.39	6.6	1.49	7.3	0.09	7.6	9.98	8.7	0.15	4.5	1.703	4.5
2023 f	5.07	6.3	1.75	3.7	0.86	5.3	1.47	5.8	1.58	5.8	0.10	5.8	10.53	5.5	0.15	4.9	1.786	4.9

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.25

Source: Oxford Economics

**Table 14 - Canada**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Canadian \$	% change	Billion US\$	% change	2015=100	% change	Billion C\$ 2015 prices	% change
2007	1.08	-10.3	1.01	-5.3	104.89	-2.6	13.41	-0.4
2008	1.23	13.9	1.16	14.7	112.30	7.1	12.36	-7.9
2009	0.91	-26.5	0.79	-31.3	75.59	-32.7	10.18	-17.6
2010	1.00	10.3	0.97	22.2	88.62	17.2	10.89	6.9
2011	1.38	38.4	1.40	44.1	85.88	-3.1	11.90	9.3
2012	1.57	13.5	1.57	12.3	90.78	5.7	12.71	6.8
2013	1.50	-4.2	1.46	-7.1	90.85	0.1	12.83	1.0
2014	1.40	-7.1	1.26	-13.4	106.08	16.8	13.05	1.7
2015	1.63	17.0	1.28	1.1	100.00	-5.7	12.57	-3.6
2016	1.64	0.2	1.23	-3.4	104.41	4.4	12.09	-3.9
2017	1.78	9.0	1.37	11.3	109.35	4.7	12.67	4.8
2018	1.97	10.3	1.52	10.4	109.34	0.0	13.38	5.6
2019 f	1.75	-11.2	1.32	-13.3	109.22	-0.1	13.85	3.5
2020 f	1.41	-19.4	1.06	-19.4	104.92	-3.9	13.05	-5.8
2021 f	1.71	21.4	1.29	21.4	108.30	3.2	13.77	5.5
2022 f	1.75	2.7	1.32	2.7	109.69	1.3	14.00	1.7
2023 f	1.80	2.4	1.35	2.4	111.68	1.8	14.28	2.0

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 15 - Canada investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Canadian \$ 2015 prices	% change	Billion Canadian \$ 2015 prices	% change	Billion Canadian \$ 2015 prices	% change	Billion Canadian \$ 2015 prices	% change	Billion Canadian \$ 2015 prices	% change	Billion Canadian \$ 2015 prices	% change	Billion Canadian \$ 2015 prices	% change	Billion Canadian \$ 2015 prices	% change	Billion Canadian \$ 2015 prices	% change
2007	3.03	32.0	1.37	2.2	0.48	25.3	0.63	21.9	0.68	-29.6	0.34	-36.1	4.49	-15.1	2.03	-5.5	0.568	-13.4
2008	2.19	-27.6	1.67	22.2	0.60	25.0	0.80	27.0	0.74	8.8	0.24	-30.1	2.60	-42.0	1.68	-16.9	0.414	-27.2
2009	2.79	27.4	1.13	-32.7	0.43	-27.7	0.51	-35.7	0.54	-27.9	0.15	-37.2	1.43	-44.9	1.19	-29.3	0.295	-28.6
2010	5.06	81.2	1.37	21.5	0.45	4.9	0.53	3.3	0.77	43.3	0.26	71.3	1.60	11.6	0.94	-20.9	0.236	-20.2
2011	7.03	39.0	1.10	-19.8	0.51	13.5	0.70	32.4	0.84	9.4	0.17	-33.0	2.01	25.5	1.13	20.2	0.350	48.5
2012	6.88	-2.3	1.10	0.4	0.58	13.5	0.85	20.3	0.83	-1.5	0.16	-8.2	2.20	9.4	1.14	0.7	0.329	-6.1
2013	6.13	-10.9	1.17	6.0	0.53	-9.5	0.73	-13.9	0.54	-34.4	0.13	-17.7	2.88	31.1	1.64	44.2	0.435	32.2
2014	6.53	6.6	1.45	24.2	0.51	-2.9	0.67	-8.2	0.69	26.5	0.16	21.6	3.98	38.0	2.28	38.8	0.598	37.5
2015	5.22	-20.0	1.49	2.9	0.48	-7.0	0.54	-19.4	0.65	-5.2	0.14	-13.2	3.50	-12.0	1.95	-14.7	0.573	-4.1
2016	2.95	-43.5	1.68	12.6	0.55	14.9	0.59	9.3	0.59	-9.8	0.15	10.3	2.97	-15.3	1.41	-27.4	0.464	-19.0
2017	3.50	18.7	1.65	-2.1	0.54	-2.0	0.63	7.6	0.58	-1.3	0.18	21.3	3.88	30.9	1.82	29.0	0.652	40.5
2018	3.81	8.8	1.64	-0.4	0.62	16.0	0.69	8.3	0.62	6.7	0.18	-2.9	3.18	-18.2	1.58	-13.4	0.570	-12.5
2019 f	3.69	-3.2	1.67	1.7	0.67	8.4	0.71	3.9	0.59	-4.6	0.18	1.4	2.53	-20.4	1.40	-11.1	0.446	-21.7
2020 f	3.55	-3.7	1.61	-3.2	0.64	-4.5	0.67	-5.4	0.56	-5.5	0.18	-2.9	2.18	-13.8	1.46	4.5	0.489	9.6
2021 f	3.68	3.6	1.67	3.6	0.66	2.2	0.69	2.9	0.56	0.4	0.18	-0.2	2.36	8.5	1.49	1.4	0.495	1.1
2022 f	3.74	1.7	1.70	1.7	0.66	1.2	0.70	0.9	0.57	1.0	0.18	0.5	2.34	-1.1	1.51	1.4	0.500	1.1
2023 f	3.82	2.0	1.73	1.8	0.67	1.3	0.71	1.3	0.57	1.1	0.18	0.7	2.49	6.4	1.52	1.2	0.505	0.9

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 16 - Canada investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	2.82	39.4	1.27	8.0	0.44	32.3	0.59	28.7	0.64	-25.7	0.32	-32.6	4.18	-10.3	1.89	-0.2	0.529	-8.5
2008	2.06	-27.1	1.57	23.0	0.56	25.8	0.75	27.9	0.70	9.5	0.22	-29.7	2.44	-41.6	1.58	-16.4	0.388	-26.7
2009	2.45	19.1	0.99	-37.1	0.38	-32.4	0.45	-39.9	0.47	-32.6	0.13	-41.3	1.26	-48.5	1.04	-33.9	0.259	-33.2
2010	4.91	100.8	1.33	34.7	0.44	16.2	0.52	14.5	0.75	58.8	0.25	89.8	1.55	23.7	0.91	-12.3	0.229	-11.5
2011	7.11	44.7	1.11	-16.5	0.52	18.2	0.71	37.8	0.85	13.9	0.17	-30.2	2.03	30.7	1.14	25.1	0.354	54.7
2012	6.88	-3.2	1.10	-0.6	0.58	12.4	0.85	19.1	0.83	-2.5	0.16	-9.1	2.20	8.3	1.14	-0.3	0.329	-7.0
2013	5.95	-13.6	1.13	2.9	0.51	-12.2	0.71	-16.5	0.53	-36.4	0.13	-20.1	2.80	27.2	1.59	39.9	0.422	28.2
2014	5.91	-0.6	1.31	15.8	0.46	-9.5	0.60	-14.4	0.62	18.0	0.14	13.4	3.60	28.7	2.06	29.4	0.541	28.2
2015	4.08	-30.9	1.17	-11.1	0.37	-19.6	0.42	-30.4	0.51	-18.1	0.11	-25.0	2.74	-23.9	1.52	-26.3	0.448	-17.2
2016	2.22	-45.5	1.27	8.7	0.41	10.8	0.44	5.4	0.44	-13.0	0.11	6.4	2.24	-18.3	1.06	-30.0	0.350	-21.9
2017	2.70	21.2	1.27	-0.1	0.41	0.1	0.49	9.9	0.45	0.8	0.14	23.9	2.99	33.7	1.40	31.8	0.502	43.5
2018	2.94	9.0	1.27	-0.3	0.48	16.2	0.53	8.4	0.48	6.8	0.14	-2.8	2.45	-18.1	1.22	-13.3	0.440	-12.4
2019 f	2.78	-5.5	1.26	-0.6	0.51	5.9	0.54	1.5	0.44	-6.8	0.14	-1.0	1.91	-22.2	1.06	-13.2	0.337	-23.5
2020 f	2.68	-3.7	1.22	-3.2	0.48	-4.5	0.51	-5.4	0.42	-5.5	0.13	-2.9	1.64	-13.8	1.10	4.5	0.369	9.6
2021 f	2.77	3.6	1.26	3.6	0.49	2.2	0.52	2.9	0.42	0.4	0.13	-0.2	1.78	8.5	1.12	1.4	0.373	1.1
2022 f	2.82	1.7	1.28	1.7	0.50	1.2	0.53	0.9	0.43	1.0	0.13	0.5	1.76	-1.1	1.14	1.4	0.377	1.1
2023 f	2.88	2.0	1.31	1.8	0.51	1.3	0.53	1.3	0.43	1.1	0.13	0.7	1.87	6.4	1.15	1.2	0.380	0.9

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.75

Source: Oxford Economics

**Table 17 - China**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Yuan	% change	Billion US\$	% change	2015=100	% change	Billion Yuan 2015 prices	% change
2007	123.08	17.3	16.18	22.9	-	-	514.64	21.4
2008	136.90	11.2	19.70	21.8	-	-	586.15	13.9
2009	135.26	-1.2	19.80	0.5	47.84	-	664.00	13.3
2010	192.78	42.5	28.48	43.8	57.95	21.1	775.40	16.8
2011	252.65	31.1	39.10	37.3	72.91	25.8	896.73	15.6
2012	241.49	-4.4	38.28	-2.1	81.78	12.2	981.89	9.5
2013	196.18	-18.8	31.91	-16.6	89.85	9.9	1,096.39	11.7
2014	196.09	0.0	31.83	-0.3	94.96	5.7	1,207.55	10.1
2015	172.78	-11.9	27.50	-13.6	100.00	5.3	1,290.24	6.8
2016	185.17	7.2	27.88	1.4	101.00	1.0	1,389.01	7.7
2017	202.45	9.3	29.97	7.5	106.29	5.2	1,516.59	9.2
2018	192.75	-4.8	29.15	-2.7	113.35	6.6	1,647.95	8.7
2019 f	154.10	-20.1	22.31	-23.5	118.38	4.4	1,770.17	7.4
2020 f	101.63	-34.0	14.71	-34.0	112.53	-4.9	1,682.99	-4.9
2021 f	150.17	47.8	21.74	47.8	118.28	5.1	1,802.62	7.1
2022 f	157.09	4.6	22.74	4.6	120.93	2.2	1,891.34	4.9
2023 f	164.85	4.9	23.87	4.9	125.41	3.7	1,989.01	5.2

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 18 - China investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Yuan 2015 prices	% change	Billion Yuan 2015 prices	% change	Billion Yuan 2015 prices	% change	Billion Yuan 2015 prices	% change	Billion Yuan 2015 prices	% change	Billion Yuan 2015 prices	% change	Billion Yuan 2015 prices	% change	Billion Yuan 2015 prices	% change	Billion Yuan 2015 prices	% change
2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	374.27	-	226.39	-	342.96	-	321.36	-	420.20	-	43.24	-	236.87	-	3.74	-	163.780	-
2010	379.27	1.3	271.06	19.7	403.19	17.6	417.35	29.9	568.33	35.3	55.29	27.9	298.41	26.0	4.63	23.8	204.424	24.8
2011	391.46	3.2	343.06	26.6	538.62	33.6	568.68	36.3	771.43	35.7	77.41	40.0	405.64	35.9	4.20	-9.3	187.877	-8.1
2012	491.73	25.6	376.87	9.9	549.60	2.0	689.72	21.3	794.48	3.0	87.24	12.7	527.43	30.0	3.89	-7.5	150.285	-20.0
2013	533.83	8.6	423.96	12.5	633.04	15.2	741.89	7.6	875.02	10.1	87.23	0.0	568.63	7.8	6.39	64.5	161.472	7.4
2014	529.26	-0.9	484.72	14.3	691.27	9.2	783.80	5.6	921.24	5.3	85.36	-2.1	579.26	1.9	11.28	76.4	171.015	5.9
2015	538.98	1.8	519.79	7.2	732.04	5.9	806.36	2.9	984.41	6.9	90.15	5.6	631.34	9.0	13.97	23.9	162.776	-4.8
2016	501.73	-6.9	547.62	5.4	694.21	-5.2	789.40	-2.1	1,110.99	12.9	93.01	3.2	653.56	3.5	13.88	-0.7	142.720	-12.3
2017	397.97	-20.7	553.01	1.0	719.73	3.7	842.59	6.7	1,301.06	17.1	109.32	17.5	731.40	11.9	14.24	2.6	149.093	4.5
2018	403.09	1.3	569.91	3.1	764.98	6.3	913.52	8.4	1,510.33	16.1	93.92	-14.1	747.68	2.2	23.34	64.0	151.921	1.9
2019 f	433.88	7.6	591.29	3.8	781.49	2.2	966.42	5.8	1,632.94	8.1	88.42	-5.9	750.42	0.4	22.04	-5.6	163.099	7.4
2020 f	425.07	-2.0	574.50	-2.8	725.74	-7.1	941.99	-2.5	1,547.28	-7.1	86.48	-2.2	682.36	-9.1	21.49	-2.5	160.367	-1.7
2021 f	421.75	-0.8	578.80	0.7	768.78	5.9	979.86	4.0	1,669.24	7.9	90.04	4.1	736.17	7.9	23.49	9.3	171.910	7.2
2022 f	419.26	-0.6	583.49	0.8	783.69	1.9	999.99	2.1	1,719.43	3.0	93.32	3.6	764.85	3.9	24.50	4.3	176.011	2.4
2023 f	421.58	0.6	595.43	2.0	814.19	3.9	1,039.72	4.0	1,798.41	4.6	98.10	5.1	799.52	4.5	25.86	5.5	182.170	3.5

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 19 - China investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	54.79	-	33.14	-	50.21	-	47.04	-	61.52	-	6.33	-	34.68	-	0.55	-	23.976	-
2010	56.03	2.3	40.05	20.8	59.57	18.6	61.66	31.1	83.97	36.5	8.17	29.1	44.09	27.1	0.68	24.9	30.202	26.0
2011	60.58	8.1	53.09	32.6	83.35	39.9	88.00	42.7	119.38	42.2	11.98	46.7	62.77	42.4	0.65	-5.0	29.074	-3.7
2012	77.94	28.7	59.73	12.5	87.11	4.5	109.32	24.2	125.93	5.5	13.83	15.4	83.60	33.2	0.62	-5.3	23.820	-18.1
2013	86.83	11.4	68.96	15.4	102.96	18.2	120.67	10.4	142.32	13.0	14.19	2.6	92.49	10.6	1.04	68.8	26.263	10.3
2014	85.91	-1.1	78.68	14.1	112.20	9.0	127.22	5.4	149.53	5.1	13.86	-2.3	94.02	1.7	1.83	76.0	27.758	5.7
2015	85.79	-0.1	82.73	5.2	116.52	3.8	128.35	0.9	156.69	4.8	14.35	3.6	100.49	6.9	2.22	21.5	25.909	-6.7
2016	75.54	-11.9	82.45	-0.3	104.52	-10.3	118.85	-7.4	167.27	6.8	14.00	-2.4	98.40	-2.1	2.09	-6.0	21.488	-17.1
2017	58.91	-22.0	81.85	-0.7	106.53	1.9	124.71	4.9	192.57	15.1	16.18	15.5	108.26	10.0	2.11	0.8	22.068	2.7
2018	60.96	3.5	86.18	5.3	115.68	8.6	138.14	10.8	228.39	18.6	14.20	-12.2	113.06	4.4	3.53	67.5	22.974	4.1
2019 f	62.82	3.1	85.61	-0.7	113.14	-2.2	139.92	1.3	236.42	3.5	12.80	-9.9	108.65	-3.9	3.19	-9.6	23.613	2.8
2020 f	61.54	-2.0	83.18	-2.8	105.07	-7.1	136.38	-2.5	224.01	-5.2	12.52	-2.2	98.79	-9.1	3.11	-2.5	23.218	-1.7
2021 f	61.06	-0.8	83.80	0.7	111.30	5.9	141.86	4.0	241.67	7.9	13.04	4.1	106.58	7.9	3.40	9.3	24.889	7.2
2022 f	60.70	-0.6	84.48	0.8	113.46	1.9	144.78	2.1	248.94	3.0	13.51	3.6	110.73	3.9	3.55	4.3	25.483	2.4
2023 f	61.04	0.6	86.21	2.0	117.88	3.9	150.53	4.0	260.37	4.6	14.20	5.1	115.75	4.5	3.74	5.5	26.375	3.5

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.14

Source: Oxford Economics

**Table 20 - Czech Republic**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Koruna	% change	Billion US\$	% change	2015=100	% change	Billion Koruna 2015 prices	% change
<b>2007</b>	12.63	23.4	0.62	37.4	97.39	22.0	89.15	13.6
<b>2008</b>	14.00	10.9	0.82	31.8	114.25	17.3	91.41	2.5
<b>2009</b>	6.00	-57.1	0.31	-61.6	71.03	-37.8	74.55	-18.4
<b>2010</b>	4.15	-30.9	0.22	-31.0	71.90	1.2	87.27	17.1
<b>2011</b>	7.20	73.7	0.41	87.5	83.58	16.2	97.89	12.2
<b>2012</b>	8.62	19.6	0.44	8.1	79.39	-5.0	95.87	-2.1
<b>2013</b>	8.81	2.3	0.45	2.3	84.90	6.9	93.76	-2.2
<b>2014</b>	12.35	40.2	0.60	32.2	91.42	7.7	99.98	6.6
<b>2015</b>	15.68	26.9	0.64	7.1	100.00	9.4	107.42	7.4
<b>2016</b>	11.12	-29.1	0.46	-28.6	99.85	-0.1	113.05	5.2
<b>2017</b>	13.03	17.2	0.56	22.5	104.54	4.7	126.65	12.0
<b>2018</b>	15.10	15.9	0.69	24.7	107.84	3.2	129.02	1.9
<b>2019</b> f	13.37	-11.5	0.58	-16.1	107.54	-0.3	129.43	0.3
<b>2020</b> f	11.18	-16.3	0.49	-16.3	110.20	2.5	126.00	-2.6
<b>2021</b> f	12.10	8.2	0.53	8.2	114.77	4.2	133.47	5.9
<b>2022</b> f	12.83	6.0	0.56	6.0	117.56	2.4	136.46	2.2
<b>2023</b> f	13.40	4.5	0.58	4.5	120.49	2.5	139.57	2.3

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 21 - Czech Republic investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Koruna 2015 prices	% change	Billion Koruna 2015 prices	% change	Billion Koruna 2015 prices	% change	Billion Koruna 2015 prices	% change	Billion Koruna 2015 prices	% change	Billion Koruna 2015 prices	% change	Billion Koruna 2015 prices	% change	Billion Koruna 2015 prices	% change	Billion Koruna 2015 prices	% change
2007	12.21	17.0	26.07	30.8	17.07	5.7	11.93	4.9	32.13	19.9	15.11	37.8	57.70	22.5	1.75	18.6	2.494	22.0
2008	11.15	-8.7	33.77	29.5	17.48	2.4	12.15	1.9	29.89	-7.0	14.76	-2.3	56.61	-1.9	2.11	20.7	3.039	21.8
2009	7.89	-29.2	18.04	-46.6	12.46	-28.7	8.33	-31.5	23.47	-21.5	12.86	-12.9	41.61	-26.5	2.38	13.0	2.840	-6.5
2010	5.97	-24.3	19.95	10.6	11.15	-10.5	7.38	-11.4	24.26	3.3	14.96	16.3	33.64	-19.2	2.35	-1.2	2.756	-3.0
2011	6.00	0.4	21.53	7.9	14.10	26.4	9.96	35.0	27.86	14.9	14.99	0.2	49.11	46.0	2.87	22.0	3.474	26.1
2012	6.92	15.5	18.63	-13.5	13.96	-1.0	9.79	-1.7	29.17	4.7	16.67	11.2	63.65	29.6	2.74	-4.6	3.302	-4.9
2013	8.16	17.9	20.57	10.4	15.28	9.5	10.68	9.0	22.78	-21.9	13.30	-20.2	61.52	-3.3	3.20	16.8	3.653	10.6
2014	9.12	11.8	22.68	10.2	15.66	2.4	10.86	1.7	28.74	26.2	18.60	39.8	62.41	1.5	3.20	0.1	3.724	1.9
2015	9.72	6.6	24.63	8.6	16.77	7.1	11.60	6.8	32.69	13.8	23.86	28.3	76.33	22.3	3.34	4.5	3.754	0.8
2016	10.08	3.7	25.00	1.5	15.96	-4.8	11.02	-5.0	35.36	8.2	26.90	12.7	71.93	-5.8	3.38	1.1	3.751	-0.1
2017	8.33	-17.3	28.07	12.2	15.20	-4.8	10.91	-1.0	32.99	-6.7	26.46	-1.6	73.62	2.3	3.08	-8.9	3.533	-5.8
2018	8.53	2.3	29.51	5.2	15.28	0.5	11.28	3.4	30.94	-6.2	25.36	-4.2	78.41	6.5	2.79	-9.3	3.381	-4.3
2019 f	8.28	-2.9	29.75	0.8	15.33	0.4	11.24	-0.4	31.27	1.1	24.18	-4.7	79.28	1.1	2.41	-13.7	3.084	-8.8
2020 f	8.19	-1.1	30.70	3.2	16.05	4.7	11.59	3.1	32.45	3.8	25.62	6.0	74.65	-5.8	2.47	2.6	3.177	3.0
2021 f	8.31	1.5	31.85	3.7	16.48	2.7	11.87	2.4	33.65	3.7	25.91	1.1	84.60	13.3	2.50	1.3	3.275	3.1
2022 f	8.45	1.7	32.59	2.3	16.92	2.6	12.18	2.6	34.99	4.0	26.75	3.2	86.28	2.0	2.59	3.3	3.356	2.5
2023 f	8.58	1.6	33.24	2.0	17.34	2.5	12.48	2.5	36.38	4.0	27.75	3.7	90.10	4.4	2.68	3.6	3.448	2.7

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 22 - Czech Republic investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	0.60	30.2	1.28	45.7	0.84	17.6	0.59	16.8	1.58	33.5	0.74	53.4	2.84	36.4	0.09	32.0	0.123	35.9
2008	0.65	8.5	1.98	54.0	1.02	21.7	0.71	21.1	1.75	10.6	0.86	16.1	3.32	16.6	0.12	43.5	0.178	44.8
2009	0.41	-36.6	0.95	-52.2	0.65	-36.2	0.44	-38.6	1.23	-29.7	0.67	-22.0	2.18	-34.2	0.12	1.2	0.149	-16.3
2010	0.31	-24.4	1.04	10.4	0.58	-10.7	0.39	-11.6	1.27	3.2	0.78	16.1	1.76	-19.3	0.12	-1.4	0.144	-3.2
2011	0.34	8.3	1.22	16.4	0.80	36.5	0.56	45.7	1.57	24.0	0.85	8.2	2.78	57.6	0.16	31.7	0.196	36.0
2012	0.35	4.4	0.95	-21.8	0.71	-10.5	0.50	-11.1	1.49	-5.4	0.85	0.5	3.25	17.1	0.14	-13.8	0.169	-14.1
2013	0.42	17.9	1.05	10.5	0.78	9.5	0.55	9.1	1.16	-21.9	0.68	-20.2	3.14	-3.3	0.16	16.9	0.187	10.6
2014	0.44	5.4	1.09	3.9	0.75	-3.4	0.52	-4.1	1.38	18.9	0.90	31.8	3.01	-4.3	0.15	-5.6	0.179	-3.9
2015	0.40	-10.1	1.00	-8.4	0.68	-9.6	0.47	-9.9	1.33	-4.0	0.97	8.3	3.10	3.2	0.14	-11.8	0.153	-14.9
2016	0.41	4.4	1.02	2.2	0.65	-4.2	0.45	-4.4	1.45	8.9	1.10	13.4	2.94	-5.2	0.14	1.7	0.153	0.6
2017	0.36	-13.6	1.20	17.4	0.65	-0.4	0.47	3.6	1.41	-2.4	1.13	2.8	3.15	7.0	0.13	-4.7	0.151	-1.5
2018	0.39	10.0	1.36	13.1	0.70	8.2	0.52	11.2	1.42	0.9	1.17	3.1	3.61	14.6	0.13	-2.5	0.156	2.9
2019 f	0.36	-8.0	1.30	-4.5	0.67	-4.9	0.49	-5.6	1.36	-4.2	1.05	-9.7	3.46	-4.2	0.11	-18.2	0.134	-13.6
2020 f	0.36	-1.1	1.34	3.2	0.70	4.7	0.51	3.1	1.41	3.8	1.12	6.0	3.26	-5.8	0.11	2.6	0.139	3.0
2021 f	0.36	1.5	1.39	3.7	0.72	2.7	0.52	2.4	1.47	3.7	1.13	1.1	3.69	13.3	0.11	1.3	0.143	3.1
2022 f	0.37	1.7	1.42	2.3	0.74	2.6	0.53	2.6	1.53	4.0	1.17	3.2	3.76	2.0	0.11	3.3	0.146	2.5
2023 f	0.37	1.6	1.45	2.0	0.76	2.5	0.54	2.5	1.59	4.0	1.21	3.7	3.93	4.4	0.12	3.6	0.150	2.7

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.04

Source: Oxford Economics



**Table 23 - France**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Euro	% change	Billion US\$	% change	2015=100	% change	Billion Euro 2015 prices	% change
2007	1.15	1.8	1.58	11.0	116.75	5.8	17.38	2.5
2008	1.30	13.0	1.91	21.3	114.48	-1.9	16.36	-5.9
2009	0.61	-53.0	0.85	-55.5	89.45	-21.9	14.08	-13.9
2010	0.64	4.6	0.85	-0.5	94.15	5.3	14.59	3.6
2011	0.94	47.3	1.31	54.6	100.62	6.9	15.55	6.6
2012	0.83	-12.2	1.06	-19.0	102.55	1.9	15.23	-2.1
2013	0.81	-1.5	1.08	1.9	98.31	-4.1	14.96	-1.8
2014	0.75	-7.5	1.00	-7.4	97.76	-0.6	15.18	1.4
2015	0.99	31.6	1.10	9.9	100.00	2.3	15.29	0.7
2016	1.05	5.4	1.16	5.2	103.71	3.7	15.57	1.8
2017	1.10	4.8	1.24	7.0	108.97	5.1	15.99	2.7
2018	1.21	10.1	1.42	15.2	113.05	3.7	16.19	1.2
2019 f	1.19	-1.4	1.33	-6.6	114.44	1.2	15.87	-1.9
2020 f	0.94	-20.7	1.06	-20.7	112.95	-1.3	15.22	-4.1
2021 f	1.16	23.1	1.30	23.1	118.10	4.6	15.89	4.4
2022 f	1.21	3.8	1.35	3.8	120.71	2.2	16.24	2.2
2023 f	1.24	3.0	1.39	3.0	122.80	1.7	16.53	1.8

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 24 - France investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change
2007	1.52	7.4	4.59	9.2	1.92	6.3	0.90	2.2	6.63	1.1	3.77	-0.2	7.90	-2.3	4.16	1.8	1.704	7.6
2008	1.49	-1.5	4.45	-3.2	2.01	4.9	0.90	-0.3	6.61	-0.3	3.71	-1.6	7.17	-9.3	4.53	8.8	1.830	7.4
2009	0.99	-33.5	3.28	-26.3	1.62	-19.4	0.74	-17.7	5.67	-14.2	3.57	-3.8	5.56	-22.4	4.47	-1.3	1.744	-4.7
2010	1.20	20.6	3.64	11.2	1.57	-3.2	0.72	-2.3	5.81	2.4	3.75	4.9	5.67	2.0	4.02	-9.9	1.765	1.2
2011	1.22	1.5	3.79	3.9	1.92	22.4	0.84	16.8	5.83	0.4	3.84	2.5	5.87	3.5	4.20	4.4	1.789	1.4
2012	1.20	-0.9	3.91	3.2	1.86	-3.1	0.82	-2.3	5.69	-2.4	4.17	8.6	5.73	-2.5	4.88	16.3	1.952	9.1
2013	1.16	-3.7	3.70	-5.2	1.83	-2.1	0.80	-2.8	5.66	-0.5	4.28	2.5	5.02	-12.4	5.23	7.1	1.882	-3.6
2014	1.17	0.8	3.61	-2.4	1.92	5.4	0.77	-4.3	5.64	-0.2	4.38	2.5	5.28	5.1	5.29	1.1	1.922	2.1
2015	1.11	-5.2	3.70	2.5	1.89	-1.7	0.78	1.6	5.82	3.2	4.61	5.1	5.77	9.4	5.24	-0.9	2.007	4.4
2016	1.10	-0.4	3.95	6.6	1.96	3.5	0.83	6.9	6.06	4.0	4.60	-0.2	5.51	-4.5	4.96	-5.3	1.862	-7.2
2017	1.11	0.4	4.12	4.4	2.02	3.5	0.92	10.6	6.17	1.8	5.11	11.2	5.77	4.6	5.14	3.5	1.928	3.5
2018	1.10	-0.7	4.26	3.3	2.13	5.3	0.95	3.1	6.23	1.1	5.41	5.8	5.95	3.2	5.46	6.4	2.122	10.1
2019 f	1.08	-1.8	4.30	0.9	2.23	4.4	0.94	-1.2	6.61	5.9	5.57	3.0	5.91	-0.7	5.49	0.6	2.341	10.3
2020 f	1.04	-3.9	4.28	-0.6	2.25	1.0	0.96	2.7	6.42	-2.8	5.25	-5.8	5.08	-14.0	5.48	-0.3	2.497	6.7
2021 f	1.07	3.6	4.44	3.9	2.34	4.2	0.99	2.9	6.48	1.0	5.33	1.6	5.96	17.4	5.66	3.3	2.561	2.6
2022 f	1.09	1.3	4.53	2.0	2.39	1.9	1.01	2.0	6.53	0.6	5.36	0.6	6.31	5.8	5.79	2.4	2.599	1.5
2023 f	1.09	0.4	4.60	1.6	2.42	1.5	1.03	1.4	6.60	1.2	5.39	0.5	6.52	3.5	5.95	2.7	2.629	1.1

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 25 - France investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	2.08	17.2	6.30	19.1	2.63	16.0	1.24	11.5	9.09	10.3	5.17	8.9	10.82	6.6	5.70	11.1	2.335	17.4
2008	2.20	5.7	6.54	3.9	2.96	12.6	1.32	7.0	9.72	7.0	5.46	5.6	10.54	-2.6	6.66	16.8	2.691	15.2
2009	1.38	-37.0	4.57	-30.2	2.26	-23.6	1.03	-22.0	7.91	-18.7	4.98	-8.8	7.75	-26.4	6.22	-6.5	2.431	-9.7
2010	1.59	14.7	4.83	5.8	2.08	-7.9	0.96	-7.0	7.70	-2.6	4.97	-0.2	7.52	-2.9	5.33	-14.3	2.340	-3.7
2011	1.69	6.6	5.27	9.1	2.68	28.5	1.17	22.6	8.11	5.4	5.35	7.7	8.18	8.7	5.85	9.6	2.490	6.4
2012	1.55	-8.6	5.02	-4.7	2.39	-10.5	1.06	-9.9	7.31	-9.9	5.36	0.3	7.36	-10.0	6.28	7.3	2.508	0.7
2013	1.54	-0.5	4.92	-2.1	2.42	1.2	1.06	0.5	7.51	2.8	5.68	5.9	6.67	-9.4	6.95	10.7	2.499	-0.4
2014	1.55	0.8	4.80	-2.3	2.56	5.5	1.02	-4.2	7.50	-0.1	5.83	2.6	7.01	5.1	7.03	1.2	2.554	2.2
2015	1.23	-20.9	4.11	-14.4	2.10	-17.9	0.86	-15.2	6.46	-13.9	5.11	-12.2	6.40	-8.7	5.82	-17.3	2.227	-12.8
2016	1.22	-0.7	4.37	6.3	2.17	3.2	0.92	6.6	6.70	3.7	5.09	-0.5	6.10	-4.8	5.49	-5.6	2.061	-7.5
2017	1.25	2.5	4.66	6.6	2.29	5.6	1.04	12.9	6.97	4.0	5.77	13.5	6.51	6.8	5.80	5.6	2.178	5.7
2018	1.30	3.8	5.03	8.1	2.52	10.1	1.12	7.8	7.36	5.7	6.39	10.7	7.03	7.9	6.45	11.2	2.507	15.1
2019 f	1.21	-7.0	4.82	-4.3	2.49	-1.0	1.05	-6.4	7.40	0.4	6.24	-2.4	6.61	-5.9	6.15	-4.7	2.621	4.6
2020 f	1.16	-3.9	4.79	-0.6	2.52	1.0	1.08	2.7	7.19	-2.8	5.88	-5.8	5.69	-14.0	6.13	-0.3	2.796	6.7
2021 f	1.20	3.6	4.97	3.9	2.62	4.2	1.11	2.9	7.26	1.0	5.97	1.6	6.68	17.4	6.33	3.3	2.868	2.6
2022 f	1.22	1.3	5.07	2.0	2.67	1.9	1.13	2.0	7.31	0.6	6.00	0.6	7.06	5.8	6.49	2.4	2.910	1.5
2023 f	1.22	0.4	5.15	1.6	2.71	1.5	1.15	1.4	7.39	1.2	6.03	0.5	7.31	3.5	6.66	2.7	2.943	1.1

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.89

Source: Oxford Economics

**Table 26 - Germany**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Euro	% change	Billion US\$	% change	2015=100	% change	Billion Euro 2015 prices	% change
2007	5.45	32.7	7.46	44.8	103.27	13.3	47.49	6.6
2008	6.67	22.4	9.81	31.4	111.68	8.1	46.82	-1.4
2009	4.18	-37.4	5.82	-40.6	84.11	-24.7	35.39	-24.4
2010	3.55	-15.1	4.70	-19.2	81.02	-3.7	43.19	22.1
2011	4.73	33.4	6.58	40.0	97.56	20.4	48.70	12.7
2012	4.93	4.3	6.34	-3.7	99.31	1.8	48.25	-0.9
2013	5.55	12.5	7.37	16.3	93.90	-5.4	48.65	0.8
2014	5.44	-2.0	7.23	-1.9	96.22	2.5	51.49	5.8
2015	5.79	6.4	6.42	-11.2	100.00	3.9	51.59	0.2
2016	5.85	1.1	6.47	0.8	105.64	5.6	54.16	5.0
2017	5.95	1.7	6.72	3.8	107.95	2.2	56.86	5.0
2018	6.64	11.6	7.84	16.7	112.87	4.6	57.69	1.5
2019 f	7.00	5.5	7.84	-0.1	113.50	0.6	55.40	-4.0
2020 f	4.90	-30.1	5.48	-30.1	109.16	-3.8	51.45	-7.1
2021 f	5.79	18.2	6.48	18.2	115.28	5.6	55.73	8.3
2022 f	5.97	3.1	6.68	3.1	117.56	2.0	56.26	1.0
2023 f	6.10	2.2	6.83	2.2	119.24	1.4	56.82	1.0

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 27 - Germany investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change
2007	4.52	29.6	6.61	14.6	8.58	19.6	6.00	16.1	12.02	6.5	5.86	3.2	27.69	9.0	1.25	-3.0	0.763	0.8
2008	4.86	7.5	7.22	9.3	9.38	9.3	6.54	9.0	11.61	-3.4	5.47	-6.7	30.73	11.0	1.31	5.1	0.817	7.1
2009	3.86	-20.6	4.95	-31.5	7.39	-21.2	4.88	-25.4	9.48	-18.3	4.85	-11.2	27.14	-11.7	1.47	12.0	0.744	-8.9
2010	3.25	-15.7	4.78	-3.4	6.85	-7.3	4.43	-9.3	9.63	1.6	5.56	14.5	29.30	8.0	1.38	-6.0	0.673	-9.6
2011	3.78	16.3	6.10	27.6	7.54	10.0	5.22	18.0	11.61	20.6	6.30	13.4	32.42	10.7	1.56	12.8	0.719	6.9
2012	4.00	5.6	5.96	-2.3	8.01	6.3	5.44	4.2	11.47	-1.2	6.22	-1.3	35.00	7.9	1.83	17.3	0.790	9.8
2013	4.02	0.5	5.63	-5.5	7.73	-3.5	5.26	-3.3	10.41	-9.3	5.95	-4.4	35.36	1.0	1.57	-14.4	0.627	-20.6
2014	3.55	-11.6	5.81	3.2	8.30	7.4	5.39	2.5	9.97	-4.2	5.55	-6.6	37.26	5.4	1.50	-4.0	0.658	5.0
2015	3.58	0.9	6.06	4.4	8.30	0.0	5.35	-0.7	9.89	-0.8	5.92	6.6	38.69	3.8	1.76	17.1	0.752	14.4
2016	3.52	-1.8	6.41	5.8	8.68	4.5	5.64	5.3	10.55	6.7	5.90	-0.3	41.59	7.5	1.94	10.1	0.788	4.7
2017	3.56	1.2	6.39	-0.3	9.13	5.2	6.23	10.4	10.73	1.7	6.23	5.5	47.28	13.7	1.77	-8.5	0.654	-17.0
2018	3.70	4.0	6.61	3.4	9.56	4.8	6.72	8.0	11.18	4.2	6.62	6.3	51.40	8.7	1.74	-2.0	0.671	2.5
2019 f	3.66	-1.3	6.68	1.1	9.54	-0.3	6.76	0.6	11.41	2.0	6.58	-0.6	48.49	-5.7	1.89	8.9	0.720	7.3
2020 f	3.46	-5.4	6.41	-4.1	9.41	-1.4	6.63	-1.9	11.24	-1.4	6.38	-3.1	42.18	-13.0	1.95	3.2	0.733	1.8
2021 f	3.61	4.3	6.67	4.0	9.84	4.6	6.99	5.3	11.55	2.7	6.47	1.4	50.41	19.5	2.03	3.8	0.758	3.5
2022 f	3.63	0.7	6.80	1.9	10.02	1.8	7.14	2.2	11.73	1.5	6.51	0.7	51.41	2.0	2.10	3.5	0.776	2.4
2023 f	3.64	0.0	6.89	1.3	10.15	1.4	7.25	1.5	11.89	1.4	6.54	0.5	52.25	1.6	2.16	2.9	0.786	1.3

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 28 - Germany investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	6.19	41.4	9.05	25.0	11.76	30.5	8.22	26.7	16.47	16.2	8.03	12.6	37.94	18.9	1.71	5.9	1.045	10.0
2008	7.14	15.4	10.62	17.4	13.79	17.3	9.62	17.0	17.07	3.6	8.04	0.1	45.20	19.1	1.93	12.8	1.201	14.9
2009	5.38	-24.7	6.89	-35.1	10.30	-25.3	6.80	-29.3	13.21	-22.6	6.76	-15.9	37.82	-16.3	2.05	6.1	1.037	-13.7
2010	4.31	-19.8	6.33	-8.1	9.09	-11.8	5.87	-13.7	12.77	-3.3	7.37	8.9	38.84	2.7	1.83	-10.6	0.892	-14.0
2011	5.27	22.1	8.49	34.0	10.49	15.5	7.27	23.9	16.17	26.6	8.77	19.0	45.13	16.2	2.17	18.4	1.001	12.2
2012	5.13	-2.5	7.65	-9.8	10.29	-1.9	6.99	-3.8	14.74	-8.8	7.99	-8.9	44.96	-0.4	2.35	8.3	1.014	1.3
2013	5.34	3.9	7.47	-2.4	10.27	-0.3	6.99	-0.1	13.82	-6.2	7.90	-1.1	46.96	4.4	2.08	-11.5	0.832	-18.0
2014	4.72	-11.6	7.72	3.3	11.03	7.5	7.17	2.6	13.25	-4.1	7.38	-6.6	49.52	5.5	2.00	-4.0	0.874	5.1
2015	3.97	-15.8	6.73	-12.8	9.21	-16.5	5.94	-17.1	10.98	-17.2	6.57	-11.0	42.93	-13.3	1.95	-2.3	0.835	-4.5
2016	3.89	-2.1	7.10	5.5	9.60	4.2	6.24	5.1	11.68	6.4	6.53	-0.5	46.02	7.2	2.15	9.8	0.872	4.4
2017	4.02	3.3	7.22	1.8	10.31	7.4	7.04	12.7	12.12	3.8	7.04	7.7	53.41	16.1	2.00	-6.6	0.739	-15.2
2018	4.37	8.8	7.81	8.1	11.30	9.5	7.94	12.9	13.21	9.0	7.82	11.1	60.72	13.7	2.05	2.4	0.792	7.2
2019 f	4.09	-6.4	7.48	-4.2	10.68	-5.5	7.57	-4.7	12.77	-3.3	7.37	-5.8	54.29	-10.6	2.12	3.2	0.806	1.7
2020 f	3.87	-5.4	7.18	-4.1	10.53	-1.4	7.43	-1.9	12.59	-1.4	7.14	-3.1	47.23	-13.0	2.19	3.2	0.820	1.8
2021 f	4.04	4.3	7.47	4.0	11.02	4.6	7.82	5.3	12.94	2.7	7.24	1.4	56.45	19.5	2.27	3.8	0.849	3.5
2022 f	4.07	0.7	7.61	1.9	11.22	1.8	7.99	2.2	13.13	1.5	7.29	0.7	57.56	2.0	2.35	3.5	0.869	2.4
2023 f	4.07	0.0	7.71	1.3	11.37	1.4	8.11	1.5	13.31	1.4	7.32	0.5	58.50	1.6	2.42	2.9	0.880	1.3

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.89

Source: Oxford Economics

**Table 29 - Hungary**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Forint	% change	Billion US\$	% change	2015=100	% change	Billion Forint 2015 prices	% change
2007	56.67	42.9	0.31	63.7	86.42	19.1	468.75	12.7
2008	56.77	0.2	0.33	6.9	88.75	2.7	465.91	-0.6
2009	27.38	-51.8	0.14	-59.0	68.83	-22.4	340.09	-27.0
2010	28.04	2.4	0.13	-0.3	82.46	19.8	384.27	13.0
2011	38.41	37.0	0.19	41.7	105.43	27.9	423.05	10.1
2012	108.04	181.3	0.48	151.2	114.49	8.6	436.53	3.2
2013	75.69	-29.9	0.34	-29.5	114.22	-0.2	433.35	-0.7
2014	64.37	-14.9	0.28	-18.2	109.33	-4.3	468.30	8.1
2015	74.91	16.4	0.27	-3.1	100.00	-8.5	502.23	7.2
2016	80.98	8.1	0.29	7.3	130.26	30.3	503.30	0.2
2017	73.00	-9.9	0.27	-7.5	172.76	32.6	545.18	8.3
2018	72.72	-0.4	0.27	1.2	207.90	20.3	554.17	1.6
2019 f	97.11	33.5	0.33	24.1	234.24	12.7	564.58	1.9
2020 f	71.97	-25.9	0.25	-25.9	243.11	3.8	550.37	-2.5
2021 f	82.15	14.1	0.28	14.1	255.95	5.3	595.50	8.2
2022 f	86.88	5.8	0.30	5.8	263.09	2.8	619.16	4.0
2023 f	91.67	5.5	0.32	5.5	270.12	2.7	644.57	4.1

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 30 - Hungary investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Forint 2015 prices	% change	Billion Forint 2015 prices	% change	Billion Forint 2015 prices	% change	Billion Forint 2015 prices	% change	Billion Forint 2015 prices	% change	Billion Forint 2015 prices	% change	Billion Forint 2015 prices	% change	Billion Forint 2015 prices	% change	Billion Forint 2015 prices	% change
2007	74.89	35.4	86.14	16.3	64.19	0.6	29.89	11.5	213.56	37.4	6.69	53.9	328.09	4.7	2.94	76.1	6.028	80.6
2008	95.50	27.5	91.22	5.9	65.67	2.3	24.83	-16.9	175.45	-17.8	6.07	-9.3	316.15	-3.6	3.73	26.9	7.714	28.0
2009	54.64	-42.8	64.51	-29.3	58.11	-11.5	22.94	-7.6	149.54	-14.8	6.39	5.3	307.00	-2.9	3.23	-13.4	5.558	-28.0
2010	40.03	-26.7	72.79	12.8	58.65	0.9	22.62	-1.4	176.59	18.1	7.89	23.5	313.43	2.1	7.71	138.7	13.033	134.5
2011	44.84	12.0	111.91	53.7	88.39	50.7	26.15	15.6	187.28	6.1	8.62	9.4	547.94	74.8	4.86	-36.9	8.468	-35.0
2012	35.34	-21.2	119.06	6.4	107.07	21.1	29.84	14.1	161.97	-13.5	7.17	-16.8	711.95	29.9	5.10	5.0	8.869	4.7
2013	41.75	18.2	105.21	-11.6	124.97	16.7	32.90	10.3	153.56	-5.2	7.33	2.2	697.63	-2.0	6.79	33.0	11.189	26.2
2014	41.81	0.1	117.76	11.9	104.05	-16.7	27.45	-16.6	144.89	-5.6	7.17	-2.1	660.60	-5.3	4.18	-38.5	6.996	-37.5
2015	37.78	-9.6	103.73	-11.9	95.05	-8.7	25.90	-5.7	160.53	10.8	9.79	36.5	568.86	-13.9	4.21	0.9	6.819	-2.5
2016	65.51	73.4	147.90	42.6	102.81	8.2	28.06	8.4	195.50	21.8	12.39	26.6	581.04	2.1	5.99	42.2	9.582	40.5
2017	99.57	52.0	202.31	36.8	120.74	17.4	33.34	18.8	238.94	22.2	16.54	33.5	651.03	12.0	8.76	46.2	14.624	52.6
2018	112.72	13.2	245.92	21.6	120.60	-0.1	36.88	10.6	281.32	17.7	20.88	26.2	710.30	9.1	12.16	38.8	21.521	47.2
2019 f	122.82	9.0	263.26	7.1	133.93	11.1	43.31	17.5	337.57	20.0	24.24	16.1	848.73	19.5	15.30	25.9	28.569	32.8
2020 f	119.07	-3.1	272.42	3.5	137.99	3.0	45.92	6.0	361.50	7.1	26.69	10.1	776.72	-8.5	16.25	6.2	31.129	9.0
2021 f	126.41	6.2	286.95	5.3	139.38	1.0	46.45	1.2	371.04	2.6	27.69	3.7	932.04	20.0	17.11	5.3	32.548	4.6
2022 f	128.88	2.0	293.39	2.2	141.55	1.6	46.97	1.1	380.52	2.6	28.81	4.0	1,001.62	7.5	17.92	4.7	33.851	4.0
2023 f	131.48	2.0	300.20	2.3	143.02	1.0	47.49	1.1	389.13	2.3	29.79	3.4	1,088.78	8.7	18.56	3.6	34.744	2.6

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 31 - Hungary investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	0.41	55.2	0.47	33.3	0.35	15.3	0.16	27.8	1.16	57.5	0.04	76.3	1.79	20.0	0.02	-97.8	0.03	-97.5
2008	0.55	36.1	0.53	13.0	0.38	9.2	0.14	-11.4	1.02	-12.3	0.04	-3.2	1.84	2.8	0.02	35.4	0.04	36.5
2009	0.27	-51.3	0.32	-39.8	0.29	-24.7	0.11	-21.4	0.74	-27.5	0.03	-10.5	1.52	-17.4	0.02	-26.3	0.03	-38.7
2010	0.19	-28.7	0.35	9.8	0.28	-1.8	0.11	-4.0	0.85	14.9	0.04	20.1	1.51	-0.7	0.04	132.3	0.06	128.2
2011	0.22	15.8	0.56	59.0	0.44	55.9	0.13	19.5	0.93	9.7	0.04	13.1	2.73	80.8	0.02	-34.8	0.04	-32.8
2012	0.16	-29.6	0.53	-5.0	0.48	8.2	0.13	1.9	0.72	-22.8	0.03	-25.7	3.16	16.0	0.02	-6.2	0.04	-6.5
2013	0.19	18.9	0.47	-11.1	0.56	17.5	0.15	11.0	0.69	-4.6	0.03	2.8	3.12	-1.4	0.03	33.8	0.05	27.0
2014	0.18	-3.7	0.51	7.6	0.45	-19.9	0.12	-19.8	0.62	-9.3	0.03	-5.9	2.84	-8.9	0.02	-40.9	0.03	-39.9
2015	0.14	-24.8	0.37	-26.7	0.34	-23.9	0.09	-21.4	0.57	-7.7	0.04	13.7	2.04	-28.3	0.02	-16.0	0.02	-18.8
2016	0.23	72.1	0.53	41.5	0.37	7.3	0.10	7.5	0.69	20.8	0.04	25.6	2.06	1.3	0.02	41.1	0.03	39.4
2017	0.36	55.9	0.74	40.3	0.44	20.5	0.12	21.9	0.87	25.4	0.06	37.0	2.37	14.9	0.03	50.0	0.05	56.6
2018	0.42	15.0	0.91	23.5	0.45	1.4	0.14	12.3	1.04	19.6	0.08	28.2	2.63	10.8	0.04	40.9	0.08	49.5
2019 f	0.42	1.3	0.91	-0.5	0.46	3.2	0.15	9.2	1.16	11.5	0.08	7.9	2.92	11.1	0.05	17.0	0.10	23.4
2020 f	0.41	-3.1	0.94	3.5	0.47	3.0	0.16	6.0	1.24	7.1	0.09	10.1	2.67	-8.5	0.06	6.2	0.11	9.0
2021 f	0.43	6.2	0.99	5.3	0.48	1.0	0.16	1.2	1.28	2.6	0.10	3.7	3.21	20.0	0.06	5.3	0.11	4.6
2022 f	0.44	2.0	1.01	2.2	0.49	1.6	0.16	1.1	1.31	2.6	0.10	4.0	3.45	7.5	0.06	4.7	0.12	4.0
2023 f	0.45	2.0	1.03	2.3	0.49	1.0	0.16	1.1	1.34	2.3	0.10	3.4	3.75	8.7	0.06	3.6	0.12	2.6

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.00

Source: Oxford Economics

**Table 32 - India**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Rupee	% change	Billion US\$	% change	2015=100	% change	Billion Rupee 2015 prices	% change
2007	70.53	35.3	1.71	48.3	-	-	406.05	15.2
2008	87.47	24.0	2.01	17.9	-	-	445.96	9.8
2009	58.25	-33.4	1.20	-40.5	47.57	-	470.67	5.5
2010	81.19	39.4	1.78	48.4	66.71	40.2	589.52	25.2
2011	119.36	47.0	2.56	44.1	82.86	24.2	673.61	14.3
2012	148.48	24.4	2.78	8.7	87.53	5.6	681.92	1.2
2013	116.29	-21.7	1.95	-29.8	87.98	0.5	681.08	-0.1
2014	124.84	7.4	1.50	-23.2	92.84	5.5	740.06	8.7
2015	110.61	-11.4	1.72	15.1	100.00	7.7	792.40	7.1
2016	128.51	16.2	1.91	10.9	114.72	14.7	876.23	10.6
2017	145.39	13.1	2.23	16.8	121.71	6.1	915.79	4.5
2018	227.45	56.4	3.33	48.9	143.57	18.0	1,017.86	11.1
2019 f	182.14	-19.9	2.59	-22.2	126.91	-11.6	909.99	-10.6
2020 f	157.84	-13.3	2.24	-13.3	126.33	-0.5	906.54	-0.4
2021 f	181.17	14.8	2.57	14.8	134.65	6.6	968.53	6.8
2022 f	204.59	12.9	2.91	12.9	143.61	6.7	1,032.27	6.6
2023 f	233.86	14.3	3.32	14.3	153.77	7.1	1,097.42	6.3

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 33 - India investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Rupee 2015 prices	% change	Billion Rupee 2015 prices	% change	Billion Rupee 2015 prices	% change	Billion Rupee 2015 prices	% change	Billion Rupee 2015 prices	% change	Billion Rupee 2015 prices	% change	Billion Rupee 2015 prices	% change	Billion Rupee 2015 prices	% change	Billion Rupee 2015 prices	% change
2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	373.50	-	133.33	-	75.66	-	77.36	-	99.72	-	32.94	-	148.67	-	0.10	-	60.590	-
2010	432.99	15.9	183.33	37.5	142.88	88.9	91.57	18.4	135.53	35.9	37.61	14.2	243.39	63.7	0.15	53.5	92.748	53.1
2011	501.42	15.8	231.41	26.2	173.81	21.6	101.85	11.2	173.06	27.7	47.08	25.2	309.69	27.2	0.21	33.9	122.197	31.8
2012	601.38	19.9	235.46	1.7	205.50	18.2	108.88	6.9	195.10	12.7	52.52	11.5	327.94	5.9	0.23	11.4	129.731	6.2
2013	669.16	11.3	234.86	-0.3	213.19	3.7	107.77	-1.0	221.60	13.6	50.06	-4.7	315.44	-3.8	0.25	7.4	135.893	4.7
2014	779.10	16.4	256.92	9.4	212.45	-0.3	107.88	0.1	223.26	0.7	47.96	-4.2	318.23	0.9	0.27	10.0	145.306	6.9
2015	986.60	26.6	267.71	4.2	231.94	9.2	126.19	17.0	251.80	12.8	49.10	2.4	351.93	10.6	0.31	15.2	157.829	8.6
2016	1,114.75	13.0	311.40	16.3	277.56	19.7	138.67	9.9	279.81	11.1	53.96	9.9	382.88	8.8	0.36	16.9	183.186	16.1
2017	1,011.21	-9.3	312.31	0.3	313.36	12.9	154.41	11.3	288.24	3.0	62.74	16.3	447.01	16.8	0.41	13.2	210.024	14.7
2018	1,103.27	9.1	352.77	13.0	372.36	18.8	180.53	16.9	346.04	20.1	83.01	32.3	568.14	27.1	0.54	30.7	273.169	30.1
2019 f	1,227.92	11.3	299.59	-15.1	329.37	-11.5	164.26	-9.0	344.55	-0.4	77.75	-6.3	491.90	-13.4	0.50	-7.5	256.265	-6.2
2020 f	1,315.61	7.1	299.72	0.0	334.22	1.5	168.55	2.6	337.36	-2.1	67.09	-13.7	447.32	-9.1	0.52	3.4	267.284	4.3
2021 f	1,392.64	5.9	316.15	5.5	350.59	4.9	178.07	5.6	356.15	5.6	71.35	6.4	523.02	16.9	0.54	5.6	281.783	5.4
2022 f	1,491.46	7.1	337.74	6.8	371.24	5.9	190.38	6.9	382.66	7.4	76.87	7.7	553.89	5.9	0.58	6.7	300.437	6.6
2023 f	1,620.64	8.7	363.17	7.5	394.02	6.1	204.09	7.2	414.61	8.4	83.76	9.0	579.57	4.6	0.62	7.2	321.854	7.1

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 34 - India investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	7.67	-	2.74	-	1.55	-	1.59	-	2.05	-	0.68	-	3.05	-	0.00	-	1.244	-
2010	9.47	23.4	4.01	46.4	3.12	101.1	2.00	26.0	2.96	44.7	0.82	21.6	5.32	74.3	0.00	63.4	2.028	63.0
2011	10.74	13.5	4.96	23.7	3.72	19.2	2.18	9.0	3.71	25.1	1.01	22.7	6.64	24.7	0.00	31.2	2.618	29.1
2012	11.25	4.8	4.41	-11.1	3.85	3.3	2.04	-6.6	3.65	-1.5	0.98	-2.6	6.14	-7.5	0.00	-2.7	2.428	-7.3
2013	11.43	1.6	4.01	-8.9	3.64	-5.3	1.84	-9.6	3.79	3.7	0.86	-13.0	5.39	-12.2	0.00	-1.9	2.321	-4.4
2014	12.77	11.7	4.21	4.9	3.48	-4.4	1.77	-4.0	3.66	-3.4	0.79	-8.1	5.21	-3.2	0.00	5.5	2.381	2.6
2015	15.38	20.5	4.17	-0.9	3.62	3.9	1.97	11.3	3.93	7.3	0.77	-2.6	5.49	5.2	0.00	9.6	2.460	3.3
2016	16.59	7.8	4.63	11.0	4.13	14.2	2.06	4.9	4.16	6.1	0.80	4.9	5.70	3.8	0.01	11.6	2.726	10.8
2017	15.53	-6.4	4.80	3.5	4.81	16.5	2.37	14.9	4.43	6.3	0.96	20.0	6.87	20.5	0.01	16.8	3.225	18.3
2018	16.13	3.9	5.16	7.5	5.44	13.1	2.64	11.3	5.06	14.3	1.21	26.0	8.31	21.0	0.01	24.4	3.994	23.8
2019 f	17.44	8.1	4.25	-17.5	4.68	-14.1	2.33	-11.6	4.89	-3.3	1.10	-9.0	6.99	-15.9	0.01	-10.2	3.639	-8.9
2020 f	18.68	7.1	4.26	0.0	4.75	1.5	2.39	2.6	4.79	-2.1	0.95	-13.7	6.35	-9.1	0.01	3.4	3.796	4.3
2021 f	19.78	5.9	4.49	5.5	4.98	4.9	2.53	5.6	5.06	5.6	1.01	6.4	7.43	16.9	0.01	5.6	4.002	5.4
2022 f	21.18	7.1	4.80	6.8	5.27	5.9	2.70	6.9	5.43	7.4	1.09	7.7	7.87	5.9	0.01	6.7	4.266	6.6
2023 f	23.01	8.7	5.16	7.5	5.60	6.1	2.90	7.2	5.89	8.4	1.19	9.0	8.23	4.6	0.01	7.2	4.571	7.1

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.01

Source: Oxford Economics



**Table 35 - Indonesia**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Rupiah	% change	Billion US\$	% change	2015=100	% change	Billion Rupiah 2015 prices	% change
<b>2007</b>	-	-	-	-	55.66	-3.9	25,123.15	-4.0
<b>2008</b>	-	-	-	-	62.44	12.2	27,700.03	10.3
<b>2009</b>	3,450.82	-	0.33	-	56.75	-9.1	27,058.18	-2.3
<b>2010</b>	4,288.19	24.3	0.47	42.1	67.31	18.6	28,664.79	5.9
<b>2011</b>	6,793.26	58.4	0.77	64.1	75.24	11.8	30,970.39	8.0
<b>2012</b>	9,831.74	44.7	1.05	35.4	82.63	9.8	33,209.68	7.2
<b>2013</b>	12,909.82	31.3	1.24	18.1	88.47	7.1	35,644.03	7.3
<b>2014</b>	12,174.20	-5.7	1.03	-17.1	92.71	4.8	36,845.79	3.4
<b>2015</b>	7,961.47	-34.6	0.59	-42.1	100.00	7.9	39,527.66	7.3
<b>2016</b>	7,396.79	-7.1	0.56	-6.5	103.99	4.0	41,130.10	4.1
<b>2017</b>	5,804.21	-21.5	0.43	-22.0	108.84	4.7	42,625.70	3.6
<b>2018</b>	7,939.46	36.8	0.56	28.6	113.71	4.5	42,182.82	-1.0
<b>2019</b> f	9,279.18	16.9	0.66	17.6	99.03	-12.9	39,549.98	-6.2
<b>2020</b> f	8,397.37	-9.5	0.59	-9.5	97.51	-1.5	38,328.87	-3.1
<b>2021</b> f	9,549.54	13.7	0.68	13.7	105.57	8.3	41,822.64	9.1
<b>2022</b> f	10,445.43	9.4	0.74	9.4	112.32	6.4	44,228.27	5.8
<b>2023</b> f	11,328.92	8.5	0.80	8.5	118.24	5.3	46,391.36	4.9

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 36 - Indonesia investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Rupiah 2015 prices	% change	Billion Rupiah 2015 prices	% change	Billion Rupiah 2015 prices	% change	Billion Rupiah 2015 prices	% change	Billion Rupiah 2015 prices	% change	Billion Rupiah 2015 prices	% change	Billion Rupiah 2015 prices	% change	Billion Rupiah 2015 prices	% change	Billion Rupiah 2015 prices	% change
2007	12,211.78	21.7	7,751.70	-16.8	1,947.17	55.2	19,621.92	-9.2	76,538.70	41.1	319.80	60.2	3,640.11	40.7	3,032.71	-1.1	14056.070	-1.1
2008	15,182.69	24.3	7,741.48	-0.1	2,065.90	6.1	22,970.34	17.1	100,493.80	31.3	429.24	34.2	5,222.14	43.5	4,814.01	58.7	22312.060	58.7
2009	13,623.47	-10.3	6,758.06	-12.7	1,947.20	-5.7	21,886.29	-4.7	93,411.42	-7.0	396.09	-7.7	4,702.11	-10.0	4,749.87	-1.3	22014.780	-1.3
2010	15,667.86	15.0	7,834.92	15.9	2,309.01	18.6	23,816.25	8.8	111,677.90	19.6	480.37	21.3	6,267.07	33.3	6,103.06	28.5	28286.610	28.5
2011	19,134.92	22.1	8,823.68	12.6	2,867.05	24.2	27,067.21	13.7	120,906.20	8.3	517.78	7.8	6,948.66	10.9	5,911.52	-3.1	27398.800	-3.1
2012	18,576.92	-2.9	9,731.65	10.3	2,832.31	-1.2	31,734.09	17.2	143,894.70	19.0	614.71	18.7	7,588.61	9.2	6,589.06	11.5	30539.100	11.5
2013	20,510.32	10.4	10,821.94	11.2	2,696.46	-4.8	33,647.11	6.0	156,826.80	9.0	671.23	9.2	8,547.36	12.6	6,413.33	-2.7	29724.640	-2.7
2014	21,978.87	7.2	11,311.29	4.5	2,949.71	9.4	37,347.95	11.0	155,433.00	-0.9	653.02	-2.7	9,070.88	6.1	6,226.89	-2.9	28860.520	-2.9
2015	24,078.14	9.6	12,719.48	12.4	3,101.20	5.1	38,329.34	2.6	163,852.70	5.4	691.65	5.9	9,760.96	7.6	5,984.92	-3.9	27739.040	-3.9
2016	25,100.70	4.2	13,257.38	4.2	3,344.43	7.8	37,502.82	-2.2	171,158.60	4.5	732.05	5.8	10,171.74	4.2	6,284.23	5.0	29126.300	5.0
2017	26,672.98	6.3	14,172.66	6.9	3,489.01	4.3	37,846.35	0.9	169,080.20	-1.2	721.53	-1.4	10,244.73	0.7	6,624.31	5.4	30702.500	5.4
2018	30,836.60	15.6	14,847.65	4.8	4,014.64	15.1	40,071.98	5.9	137,328.00	-18.8	559.92	-22.4	10,751.59	4.9	6,747.75	1.9	31274.600	1.9
2019 f	29,296.45	-5.0	11,919.12	-19.7	3,275.09	-18.4	39,783.85	-0.7	130,581.40	-4.9	525.88	-6.1	10,484.66	-2.5	6,956.46	3.1	32280.700	3.2
2020 f	30,369.89	3.7	11,626.64	-2.5	3,378.63	3.2	38,352.36	-3.6	124,545.50	-4.6	514.79	-2.1	10,425.39	-0.6	7,023.84	1.0	31542.170	-2.3
2021 f	32,194.80	6.0	12,686.28	9.1	3,481.67	3.0	40,617.90	5.9	139,492.00	12.0	563.97	9.6	11,519.07	10.5	7,505.92	6.9	35216.630	11.6
2022 f	34,054.85	5.8	13,489.95	6.3	3,700.48	6.3	43,203.34	6.4	152,164.50	9.1	612.97	8.7	12,097.83	5.0	8,057.26	7.3	37699.060	7.0
2023 f	36,238.26	6.4	14,147.63	4.9	3,911.41	5.7	45,348.11	5.0	162,784.60	7.0	653.30	6.6	12,711.25	5.1	8,564.47	6.3	39982.880	6.1

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 37 - Indonesia investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	1.34	22.0	0.85	-16.6	0.21	55.7	2.15	-9.0	8.37	41.5	0.03	60.6	0.40	41.1	0.33	-0.9	1.538	-0.9
2008	1.57	17.7	0.80	-5.5	0.21	0.4	2.38	10.8	10.40	24.3	0.04	27.0	0.54	35.8	0.50	50.2	2.310	50.2
2009	1.31	-16.5	0.65	-18.8	0.19	-12.3	2.11	-11.4	9.00	-13.5	0.04	-14.2	0.45	-16.2	0.46	-8.2	2.120	-8.2
2010	1.73	31.5	0.86	32.6	0.25	35.6	2.62	24.4	12.30	36.7	0.05	38.7	0.69	52.4	0.67	46.9	3.115	46.9
2011	2.18	26.5	1.01	16.7	0.33	28.6	3.09	17.7	13.79	12.1	0.06	11.6	0.79	14.8	0.67	0.3	3.125	0.3
2012	1.98	-9.2	1.04	3.2	0.30	-7.6	3.39	9.7	15.35	11.3	0.07	11.1	0.81	2.2	0.70	4.3	3.258	4.3
2013	1.97	-0.7	1.04	0.0	0.26	-14.4	3.23	-4.6	15.05	-2.0	0.06	-1.8	0.82	1.3	0.62	-12.4	2.853	-12.4
2014	1.85	-5.8	0.95	-8.1	0.25	-3.8	3.15	-2.4	13.12	-12.9	0.06	-14.5	0.77	-6.7	0.53	-14.6	2.435	-14.6
2015	1.80	-3.1	0.95	-0.5	0.23	-7.0	2.86	-9.2	12.23	-6.7	0.05	-6.3	0.73	-4.8	0.45	-15.0	2.071	-15.0
2016	1.89	5.0	1.00	4.9	0.25	8.6	2.82	-1.5	12.87	5.2	0.06	6.6	0.76	4.9	0.47	5.7	2.189	5.7
2017	1.99	5.7	1.06	6.3	0.26	3.7	2.83	0.3	12.64	-1.8	0.05	-2.0	0.77	0.1	0.50	4.8	2.295	4.8
2018	2.17	8.7	1.04	-1.5	0.28	8.2	2.82	-0.5	9.65	-23.6	0.04	-27.0	0.76	-1.3	0.47	-4.2	2.198	-4.2
2019 f	2.07	-4.4	0.84	-19.2	0.23	-17.9	2.81	-0.1	9.24	-4.3	0.04	-5.5	0.74	-1.8	0.49	3.8	2.283	3.9
2020 f	2.15	3.7	0.82	-2.5	0.24	3.2	2.71	-3.6	8.81	-4.6	0.04	-2.1	0.74	-0.6	0.50	1.0	2.231	-2.3
2021 f	2.28	6.0	0.90	9.1	0.25	3.0	2.87	5.9	9.87	12.0	0.04	9.6	0.81	10.5	0.53	6.9	2.491	11.6
2022 f	2.41	5.8	0.95	6.3	0.26	6.3	3.06	6.4	10.76	9.1	0.04	8.7	0.86	5.0	0.57	7.3	2.666	7.0
2023 f	2.56	6.4	1.00	4.9	0.28	5.7	3.21	5.0	11.51	7.0	0.05	6.6	0.90	5.1	0.61	6.3	2.828	6.1

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.00

Source: Oxford Economics

**Table 38 - Italy**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Euro	% change	Billion US\$	% change	2015=100	% change	Billion Euro 2015 prices	% change
2007	3.77	24.6	5.16	36.0	108.01	10.9	26.36	6.1
2008	3.62	-4.0	5.32	3.1	107.71	-0.3	25.44	-3.5
2009	1.99	-44.9	2.78	-47.8	90.91	-15.6	18.27	-28.2
2010	2.01	1.0	2.67	-3.9	97.24	7.0	20.23	10.7
2011	1.98	-1.6	2.76	3.4	98.47	1.3	21.56	6.6
2012	1.60	-19.3	2.05	-25.5	94.90	-3.6	20.53	-4.8
2013	1.54	-3.4	2.05	-0.2	86.10	-9.3	20.59	0.3
2014	2.14	38.3	2.84	38.4	91.70	6.5	20.72	0.6
2015	2.68	25.6	2.98	4.9	100.00	9.0	20.65	-0.3
2016	3.18	18.6	3.52	18.3	103.40	3.4	21.61	4.7
2017	3.70	16.1	4.17	18.5	105.47	2.0	22.78	5.4
2018	4.29	16.2	5.07	21.5	108.02	2.4	23.21	1.9
2019 f	3.89	-9.4	4.36	-14.1	99.65	-7.8	22.44	-3.3
2020 f	2.62	-32.5	2.94	-32.5	91.93	-7.7	20.86	-7.0
2021 f	3.45	31.5	3.86	31.5	103.25	12.3	23.06	10.5
2022 f	3.58	3.7	4.01	3.7	105.78	2.5	23.61	2.4
2023 f	3.69	3.1	4.13	3.1	107.06	1.2	24.00	1.7

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 39 - Italy investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change
2007	1.92	11.1	7.51	19.5	3.68	4.5	3.19	4.7	4.32	3.4	1.31	15.0	4.38	-9.3	0.92	-2.8	1.516	-14.4
2008	1.79	-6.9	7.17	-4.6	3.97	7.8	3.28	2.8	3.95	-8.5	1.22	-7.1	4.86	10.9	1.27	37.8	1.806	19.1
2009	1.56	-13.1	5.93	-17.3	3.16	-20.4	2.57	-21.7	3.43	-13.0	1.55	27.8	3.85	-20.7	1.33	4.2	1.797	-0.5
2010	1.85	19.1	6.39	7.8	3.63	14.7	2.79	8.8	4.03	17.3	1.46	-6.1	4.31	12.0	1.16	-12.7	1.533	-14.7
2011	1.80	-2.9	6.40	0.1	3.62	-0.1	2.93	5.0	3.97	-1.6	1.57	7.6	4.73	9.6	1.29	11.6	1.438	-6.2
2012	1.72	-4.3	6.07	-5.2	3.40	-6.1	2.74	-6.6	3.31	-16.5	1.68	6.8	4.78	1.2	1.54	19.2	1.621	12.7
2013	1.40	-18.6	5.12	-15.6	3.43	1.0	2.67	-2.4	2.90	-12.3	1.26	-25.0	5.29	10.6	1.74	12.7	1.628	0.4
2014	1.58	12.9	5.52	7.7	3.59	4.5	2.97	11.3	3.12	7.3	1.38	9.8	5.16	-2.5	1.80	3.5	1.657	1.8
2015	1.76	11.7	5.99	8.6	3.86	7.7	3.17	6.8	3.24	4.1	1.37	-0.4	6.56	27.2	1.89	4.9	1.732	4.5
2016	1.69	-4.4	5.85	-2.2	4.29	10.9	3.46	9.1	3.53	8.8	1.38	0.7	7.08	7.9	2.07	9.6	2.054	18.6
2017	1.65	-2.1	5.84	-0.3	4.50	5.0	3.63	5.0	3.55	0.7	1.46	5.3	7.41	4.7	2.06	-0.4	2.165	5.4
2018	1.65	-0.1	5.95	2.0	4.65	3.3	3.78	4.0	3.59	1.1	1.57	7.7	7.24	-2.4	2.24	8.7	2.248	3.8
2019 f	1.53	-7.5	5.42	-9.0	4.37	-6.0	3.44	-9.1	3.36	-6.4	1.62	3.3	6.24	-13.8	2.22	-0.8	2.230	-0.8
2020 f	1.38	-9.8	4.92	-9.3	4.23	-3.3	3.13	-8.9	3.06	-8.8	1.69	4.0	5.37	-13.9	2.15	-3.2	2.169	-2.8
2021 f	1.57	14.1	5.64	14.7	4.43	4.8	3.42	9.3	3.32	8.4	1.76	4.7	6.85	27.5	2.30	6.9	2.319	6.9
2022 f	1.59	1.1	5.80	3.0	4.50	1.5	3.47	1.5	3.38	1.8	1.79	1.2	7.05	2.9	2.37	3.0	2.382	2.7
2023 f	1.59	0.4	5.89	1.5	4.55	1.1	3.51	1.0	3.43	1.4	1.80	0.8	7.04	-0.2	2.42	2.1	2.430	2.0

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 40 - Italy investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	2.63	21.2	10.29	30.4	5.05	14.0	4.37	14.2	5.92	12.8	1.79	25.4	6.00	-1.0	1.27	6.1	2.078	-6.6
2008	2.63	-0.1	10.55	2.4	5.84	15.7	4.82	10.3	5.81	-1.8	1.79	-0.3	7.15	19.1	1.87	47.9	2.657	27.9
2009	2.17	-17.7	8.27	-21.6	4.40	-24.6	3.58	-25.8	4.79	-17.6	2.16	21.0	5.37	-24.9	1.85	-1.3	2.504	-5.7
2010	2.46	13.3	8.48	2.5	4.81	9.2	3.70	3.5	5.34	11.6	1.93	-10.7	5.72	6.5	1.54	-16.9	2.033	-18.8
2011	2.50	1.9	8.90	5.1	5.04	4.9	4.08	10.2	5.52	3.3	2.18	12.9	6.58	15.1	1.80	17.1	2.002	-1.6
2012	2.21	-11.7	7.79	-12.5	4.37	-13.3	3.52	-13.8	4.25	-23.0	2.15	-1.4	6.14	-6.6	1.98	10.1	2.083	4.1
2013	1.86	-15.9	6.80	-12.7	4.56	4.4	3.55	0.8	3.86	-9.3	1.67	-22.5	7.02	14.3	2.31	16.5	2.162	3.8
2014	2.10	13.0	7.33	7.8	4.77	4.6	3.95	11.3	4.14	7.4	1.83	9.9	6.86	-2.4	2.39	3.6	2.203	1.9
2015	1.96	-6.7	6.64	-9.4	4.29	-10.1	3.52	-10.8	3.60	-13.1	1.52	-16.9	7.28	6.2	2.09	-12.4	1.922	-12.7
2016	1.87	-4.7	6.48	-2.5	4.74	10.6	3.83	8.8	3.90	8.5	1.53	0.4	7.83	7.6	2.29	9.3	2.273	18.2
2017	1.86	-0.1	6.59	1.8	5.08	7.2	4.11	7.2	4.01	2.8	1.64	7.5	8.37	6.9	2.33	1.7	2.446	7.6
2018	1.95	4.5	7.03	6.7	5.49	8.1	4.46	8.7	4.24	5.7	1.85	12.7	8.55	2.1	2.65	13.7	2.655	8.6
2019 f	1.71	-12.3	6.07	-13.7	4.89	-10.9	3.85	-13.8	3.76	-11.3	1.82	-2.0	6.99	-18.3	2.49	-6.0	2.497	-6.0
2020 f	1.54	-9.8	5.50	-9.3	4.73	-3.3	3.50	-8.9	3.43	-8.8	1.89	4.0	6.02	-13.9	2.41	-3.2	2.428	-2.8
2021 f	1.76	14.1	6.31	14.7	4.96	4.8	3.83	9.3	3.72	8.4	1.98	4.7	7.67	27.5	2.57	6.9	2.596	6.9
2022 f	1.78	1.1	6.50	3.0	5.04	1.5	3.89	1.5	3.78	1.8	2.00	1.2	7.90	2.9	2.65	3.0	2.667	2.7
2023 f	1.78	0.4	6.59	1.5	5.09	1.1	3.93	1.0	3.84	1.4	2.02	0.8	7.88	-0.2	2.71	2.1	2.721	2.0

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.89

Source: Oxford Economics

**Table 41 - Japan**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Yen	% change	Billion US\$	% change	2015=100	% change	Billion Yen 2015 prices	% change
<b>2007</b>	952.49	-2.6	8.09	-3.8	120.96	17.4	6,747.25	4.8
<b>2008</b>	853.79	-10.4	8.26	2.1	109.72	-9.3	6,750.39	0.0
<b>2009</b>	342.15	-59.9	3.66	-55.7	74.95	-31.7	5,188.00	-23.1
<b>2010</b>	429.43	25.5	4.82	31.9	67.27	-10.2	6,139.31	18.3
<b>2011</b>	591.30	37.7	7.41	53.7	74.61	10.9	6,042.32	-1.6
<b>2012</b>	468.04	-20.8	5.87	-20.8	88.22	18.3	6,257.96	3.6
<b>2013</b>	247.83	-47.0	3.70	-37.0	79.72	-9.6	6,184.83	-1.2
<b>2014</b>	513.59	107.2	5.26	42.4	91.99	15.4	6,417.79	3.8
<b>2015</b>	655.11	27.6	5.41	2.8	100.00	8.7	6,613.31	3.0
<b>2016</b>	618.88	-5.5	5.69	5.2	97.90	-2.1	6,517.98	-1.4
<b>2017</b>	637.51	3.0	5.69	-0.1	105.56	7.8	6,884.89	5.6
<b>2018</b>	710.94	11.5	6.44	13.3	106.59	1.0	7,065.70	2.6
<b>2019</b> f	658.42	-7.4	6.04	-6.2	104.19	-2.3	6,845.13	-3.1
<b>2020</b> f	448.50	-31.9	4.11	-31.9	98.15	-5.8	6,372.57	-6.9
<b>2021</b> f	634.93	41.6	5.82	41.6	101.67	3.6	6,598.57	3.5
<b>2022</b> f	651.50	2.6	5.98	2.6	103.53	1.8	6,702.04	1.6
<b>2023</b> f	664.50	2.0	6.10	2.0	105.03	1.5	6,774.51	1.1

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 42 - Japan investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Yen 2015 prices	% change	Billion Yen 2015 prices	% change	Billion Yen 2015 prices	% change	Billion Yen 2015 prices	% change	Billion Yen 2015 prices	% change	Billion Yen 2015 prices	% change	Billion Yen 2015 prices	% change	Billion Yen 2015 prices	% change	Billion Yen 2015 prices	% change
2007	2,248.99	13.6	1,065.62	25.3	1,998.84	10.2	2,267.55	7.7	9,462.38	2.6	562.59	11.9	5,495.86	9.3	122.46	9.5	813.716	4.5
2008	2,278.23	1.3	897.76	-15.8	2,224.18	11.3	2,209.32	-2.6	9,136.41	-3.4	611.10	8.6	5,287.00	-3.8	121.81	-0.5	720.676	-11.4
2009	1,997.73	-12.3	517.77	-42.3	1,912.72	-14.0	1,516.03	-31.4	6,999.74	-23.4	552.96	-9.5	3,797.37	-28.2	143.34	17.7	663.408	-7.9
2010	2,028.21	1.5	478.00	-7.7	1,528.93	-20.1	1,505.60	-0.7	6,839.89	-2.3	430.47	-22.2	3,593.64	-5.4	99.72	-30.4	508.178	-23.4
2011	2,061.57	1.6	527.97	10.5	1,660.99	8.6	1,705.53	13.3	7,446.24	8.9	452.96	5.2	3,757.39	4.6	133.04	33.4	643.211	26.6
2012	1,837.29	-10.9	716.94	35.8	1,855.52	11.7	1,820.57	6.7	7,375.12	-1.0	511.62	13.0	4,231.25	12.6	146.23	9.9	511.438	-20.5
2013	1,635.15	-11.0	594.77	-17.0	1,814.53	-2.2	1,783.13	-2.1	6,808.73	-7.7	443.53	-13.3	4,654.86	10.0	193.22	32.1	486.918	-4.8
2014	1,767.06	8.1	723.16	21.6	1,918.37	5.7	2,013.14	12.9	7,161.62	5.2	478.86	8.0	5,080.81	9.2	250.51	29.6	531.937	9.2
2015	1,747.60	-1.1	771.30	6.7	2,012.36	4.9	2,250.01	11.8	7,800.67	8.9	558.36	16.6	5,621.46	10.6	320.87	28.1	630.669	18.6
2016	1,869.42	7.0	737.24	-4.4	1,927.95	-4.2	2,142.41	-4.8	7,549.16	-3.2	532.04	-4.7	6,093.94	8.4	333.54	3.9	665.778	5.6
2017	2,261.96	21.0	870.02	18.0	1,763.73	-8.5	2,147.69	0.2	7,617.26	0.9	478.51	-10.1	6,096.17	0.0	334.84	0.4	625.829	-6.0
2018	2,120.06	-6.3	839.83	-3.5	1,978.22	12.2	2,353.62	9.6	8,191.79	7.5	545.43	14.0	6,433.52	5.5	346.26	3.4	594.273	-5.0
2019 f	1,989.98	-6.1	807.10	-3.9	1,957.35	-1.1	2,291.20	-2.7	8,021.32	-2.1	540.49	-0.9	6,443.20	0.2	380.33	9.8	613.625	3.3
2020 f	1,835.85	-7.7	757.71	-6.1	1,833.25	-6.3	2,140.94	-6.6	7,919.37	-1.3	506.22	-6.3	5,582.91	-13.4	386.21	1.5	664.620	8.3
2021 f	1,866.44	1.7	769.75	1.6	1,899.82	3.6	2,240.56	4.7	8,117.14	2.5	514.70	1.7	6,442.13	15.4	394.16	2.1	679.260	2.2
2022 f	1,880.23	0.7	785.13	2.0	1,936.83	1.9	2,283.53	1.9	8,349.40	2.9	527.43	2.5	6,461.88	0.3	405.99	3.0	691.373	1.8
2023 f	1,899.23	1.0	795.20	1.3	1,979.00	2.2	2,326.93	1.9	8,603.17	3.0	542.47	2.9	6,428.44	-0.5	419.17	3.2	705.430	2.0

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 43 - Japan investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	19.10	12.2	9.05	23.7	16.97	8.8	19.25	6.4	80.34	1.3	4.78	10.5	46.66	7.9	1.04	8.1	6.909	3.2
2008	22.04	15.4	8.68	-4.0	21.52	26.8	21.37	11.0	88.38	10.0	5.91	23.8	51.14	9.6	1.18	13.3	6.972	0.9
2009	21.34	-3.2	5.53	-36.3	20.43	-5.0	16.20	-24.2	74.78	-15.4	5.91	-0.1	40.57	-20.7	1.53	30.0	7.088	1.7
2010	22.78	6.7	5.37	-3.0	17.17	-16.0	16.91	4.4	76.82	2.7	4.83	-18.2	40.36	-0.5	1.12	-26.9	5.707	-19.5
2011	25.84	13.4	6.62	23.3	20.82	21.2	21.38	26.4	93.33	21.5	5.68	17.4	47.10	16.7	1.67	48.9	8.062	41.3
2012	23.03	-10.9	8.99	35.8	23.26	11.7	22.82	6.7	92.44	-1.0	6.41	12.9	53.03	12.6	1.83	9.9	6.410	-20.5
2013	16.76	-27.2	6.10	-32.2	18.60	-20.0	18.27	-19.9	69.78	-24.5	4.55	-29.1	47.71	-10.0	1.98	8.0	4.990	-22.1
2014	16.72	-0.2	6.84	12.2	18.15	-2.4	19.04	4.2	67.75	-2.9	4.53	-0.3	48.07	0.8	2.37	19.7	5.032	0.8
2015	14.43	-13.7	6.37	-6.9	16.62	-8.4	18.58	-2.4	64.42	-4.9	4.61	1.8	46.42	-3.4	2.65	11.8	5.208	3.5
2016	17.19	19.1	6.78	6.5	17.73	6.7	19.70	6.0	69.43	7.8	4.89	6.1	56.05	20.7	3.07	15.8	6.123	17.6
2017	20.17	17.3	7.76	14.4	15.73	-11.3	19.15	-2.8	67.93	-2.2	4.27	-12.8	54.37	-3.0	2.99	-2.7	5.581	-8.9
2018	19.21	-4.8	7.61	-1.9	17.92	13.9	21.32	11.3	74.21	9.2	4.94	15.8	58.28	7.2	3.14	5.1	5.384	-3.5
2019 f	18.25	-5.0	7.40	-2.7	17.95	0.2	21.02	-1.4	73.58	-0.9	4.96	0.3	59.10	1.4	3.49	11.2	5.629	4.5
2020 f	16.84	-7.7	6.95	-6.1	16.82	-6.3	19.64	-6.6	72.64	-1.3	4.64	-6.3	51.21	-13.4	3.54	1.5	6.096	8.3
2021 f	17.12	1.7	7.06	1.6	17.43	3.6	20.55	4.7	74.46	2.5	4.72	1.7	59.09	15.4	3.62	2.1	6.231	2.2
2022 f	17.25	0.7	7.20	2.0	17.77	1.9	20.95	1.9	76.59	2.9	4.84	2.5	59.27	0.3	3.72	3.0	6.342	1.8
2023 f	17.42	1.0	7.29	1.3	18.15	2.2	21.34	1.9	78.91	3.0	4.98	2.9	58.97	-0.5	3.84	3.2	6.471	2.0

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.01

Source: Oxford Economics

**Table 44 - Korea**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Won	% change	Billion US\$	% change	2015=100	% change	Billion Won 2015 prices	% change
2007	4,043	-17.4	4.35	-15.1	58.16	11.4	20,719	9.1
2008	4,177	3.3	3.80	-12.7	65.90	13.3	21,799	5.2
2009	3,302	-20.9	2.59	-31.9	60.31	-8.5	20,361	-6.6
2010	4,931	49.3	4.26	64.9	84.61	40.3	23,480	15.3
2011	5,815	17.9	5.25	23.1	88.17	4.2	25,421	8.3
2012	4,977	-14.4	4.42	-15.8	94.80	7.5	26,442	4.0
2013	4,819	-3.2	4.40	-0.4	93.37	-1.5	26,913	1.8
2014	5,107	6.0	4.85	10.2	99.26	6.3	28,202	4.8
2015	4,870	-4.6	4.31	-11.2	100.00	0.7	28,083	-0.4
2016	4,222	-13.3	3.64	-15.5	102.41	2.4	28,473	1.4
2017	4,520	7.1	4.00	9.9	105.68	3.2	28,650	0.6
2018	4,183	-7.5	3.80	-4.9	96.48	-8.7	28,222	-1.5
2019 f	3,696	-11.6	3.17	-16.6	89.95	-6.8	28,514	1.0
2020 f	3,154	-14.7	2.71	-14.7	88.77	-1.3	27,999	-1.8
2021 f	3,690	17.0	3.17	17.0	92.73	4.5	29,030	3.7
2022 f	3,916	6.1	3.36	6.1	98.03	5.7	29,971	3.2
2023 f	4,135	5.6	3.55	5.6	103.36	5.4	30,911	3.1

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 45 - Korea investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Won 2015 prices	% change	Billion Won 2015 prices	% change	Billion Won 2015 prices	% change	Billion Won 2015 prices	% change	Billion Won 2015 prices	% change	Billion Won 2015 prices	% change	Billion Won 2015 prices	% change	Billion Won 2015 prices	% change	Billion Won 2015 prices	% change
2007	8,007	9.4	5,346	10.6	4,119	20.0	4,502	6.7	19,881	12.4	1,403	8.6	9,217	11.9	73	5.9	5661.141	13.2
2008	8,729	9.0	6,086	13.8	4,561	10.7	4,732	5.1	22,899	15.2	1,551	10.5	9,584	4.0	109	48.1	7498.130	32.4
2009	7,771	-11.0	5,333	-12.4	4,160	-8.8	4,140	-12.5	23,239	1.5	1,483	-4.4	8,694	-9.3	117	7.4	8280.178	10.4
2010	11,449	47.3	7,147	34.0	6,177	48.5	7,576	83.0	33,106	42.5	2,062	39.0	13,353	53.6	142	21.8	9448.797	14.1
2011	11,740	2.5	7,527	5.3	6,629	7.3	7,580	0.1	33,010	-0.3	2,110	2.3	14,777	10.7	137	-3.6	9348.191	-1.1
2012	12,183	3.8	8,428	12.0	6,868	3.6	7,441	-1.8	34,220	3.7	2,304	9.2	15,174	2.7	199	45.1	10073.400	7.8
2013	12,083	-0.8	8,373	-0.7	6,518	-5.1	7,126	-4.2	34,933	2.1	2,528	9.7	15,422	1.6	250	25.6	9313.161	-7.5
2014	13,187	9.1	9,183	9.7	6,718	3.1	7,737	8.6	35,845	2.6	2,425	-4.1	16,734	8.5	303	21.5	8495.668	-8.8
2015	13,657	3.6	9,215	0.4	6,887	2.5	7,750	0.2	36,197	1.0	2,428	0.1	17,785	6.3	368	21.4	7874.268	-7.3
2016	14,247	4.3	9,646	4.7	6,970	1.2	8,144	5.1	37,288	3.0	2,465	1.5	17,591	-1.1	378	2.7	6986.691	-11.3
2017	14,956	5.0	9,532	-1.2	7,479	7.3	10,270	26.1	40,784	9.4	3,096	25.6	18,063	2.7	402	6.5	5171.223	-26.0
2018	13,793	-7.8	8,344	-12.5	7,241	-3.2	9,281	-9.6	43,908	7.7	3,406	10.0	16,935	-6.2	420	4.4	4387.750	-15.2
2019 f	12,717	-7.8	7,805	-6.5	7,291	0.7	7,781	-16.2	43,303	-1.4	2,683	-21.2	15,733	-7.1	412	-2.0	4909.660	11.9
2020 f	12,450	-2.1	7,719	-1.4	7,193	-1.3	7,719	-0.8	43,304	0.0	2,659	-0.9	14,942	-5.0	428	4.0	5049.685	2.9
2021 f	12,803	2.8	7,863	2.2	7,666	6.6	8,279	7.3	46,273	6.9	2,826	6.3	15,987	7.0	456	6.5	5306.721	5.1
2022 f	13,333	4.1	8,215	4.5	8,323	8.6	8,973	8.4	48,818	5.5	2,943	4.1	16,773	4.9	490	7.3	5613.742	5.8
2023 f	13,983	4.9	8,642	5.2	8,913	7.1	9,603	7.0	51,499	5.5	3,070	4.3	17,212	2.6	522	6.6	5893.923	5.0

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 46 - Korea investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	8.62	12.4	5.75	13.7	4.43	23.3	4.84	9.7	21.39	15.5	1.51	11.6	9.92	15.0	0.08	8.8	6.091	16.4
2008	7.93	-7.9	5.53	-3.8	4.15	-6.5	4.30	-11.2	20.81	-2.7	1.41	-6.7	8.71	-12.2	0.10	25.1	6.816	11.9
2009	6.08	-23.3	4.18	-24.5	3.26	-21.4	3.24	-24.6	18.19	-12.6	1.16	-17.6	6.81	-21.9	0.09	-7.5	6.483	-4.9
2010	9.90	62.7	6.18	48.0	5.34	64.0	6.55	102.1	28.63	57.3	1.78	53.6	11.55	69.6	0.12	34.5	8.170	26.0
2011	10.59	7.0	6.79	9.9	5.98	12.0	6.84	4.4	29.79	4.1	1.90	6.8	13.33	15.5	0.12	0.6	8.435	3.2
2012	10.81	2.1	7.48	10.1	6.10	1.9	6.60	-3.5	30.37	2.0	2.04	7.4	13.47	1.0	0.18	42.7	8.940	6.0
2013	11.03	2.1	7.65	2.2	5.95	-2.3	6.51	-1.5	31.90	5.1	2.31	12.9	14.08	4.6	0.23	29.3	8.505	-4.9
2014	12.53	13.5	8.72	14.1	6.38	7.2	7.35	12.9	34.05	6.7	2.30	-0.2	15.89	12.8	0.29	26.4	8.069	-5.1
2015	12.08	-3.6	8.15	-6.6	6.09	-4.6	6.85	-6.7	32.01	-6.0	2.15	-6.8	15.73	-1.1	0.33	13.0	6.963	-13.7
2016	12.27	1.6	8.31	2.0	6.00	-1.4	7.02	2.4	32.12	0.4	2.12	-1.1	15.15	-3.6	0.33	0.1	6.019	-13.6
2017	13.22	7.7	8.43	1.4	6.61	10.1	9.08	29.4	36.06	12.3	2.74	28.9	15.97	5.4	0.36	9.3	4.572	-24.0
2018	12.54	-5.2	7.58	-10.0	6.58	-0.5	8.44	-7.1	39.91	10.7	3.10	13.1	15.39	-3.6	0.38	7.3	3.988	-12.8
2019 f	10.91	-13.0	6.70	-11.7	6.26	-4.9	6.68	-20.8	37.16	-6.9	2.30	-25.6	13.50	-12.3	0.35	-7.4	4.213	5.6
2020 f	10.68	-2.1	6.60	-1.4	6.17	-1.3	6.62	-0.8	37.16	0.0	2.28	-0.9	12.82	-5.0	0.37	4.0	4.333	2.9
2021 f	10.99	2.8	6.75	2.2	6.58	6.6	7.10	7.3	39.71	6.9	2.43	6.3	13.72	7.0	0.39	6.5	4.554	5.1
2022 f	11.44	4.1	7.05	4.5	7.14	8.6	7.70	8.4	41.89	5.5	2.53	4.1	14.39	4.9	0.42	7.3	4.817	5.8
2023 f	12.00	4.9	7.42	5.2	7.65	7.1	8.24	7.0	44.19	5.5	2.63	4.3	14.77	2.6	0.45	6.6	5.058	5.0

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.00

Source: Oxford Economics



**Table 47 - Malaysia**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Dong	% change	Billion US\$	% change	2015=100	% change	Billion Dong 2015 prices	% change
2007	-	-	-	-	45.23	3.3	7.29	1.8
2008	-	-	-	-	48.91	8.1	7.50	2.8
2009	1.55	-	0.44	-	61.54	25.8	6.84	-8.9
2010	2.44	57.2	0.76	72.0	68.92	12.0	8.25	20.6
2011	2.17	-10.8	0.71	-6.1	59.56	-13.6	9.35	13.3
2012	2.72	25.4	0.88	24.3	63.17	6.1	10.35	10.8
2013	1.93	-29.1	0.61	-30.5	70.51	11.6	11.25	8.6
2014	1.91	-1.0	0.58	-4.7	91.95	30.4	11.57	2.9
2015	1.86	-2.7	0.48	-18.5	100.00	8.8	12.13	4.8
2016	1.65	-11.5	0.40	-16.7	99.42	-0.6	12.62	4.0
2017	2.03	23.1	0.47	18.8	114.93	15.6	13.27	5.2
2018	2.09	3.0	0.52	9.7	113.69	-1.1	13.99	5.4
2019 f	2.24	7.2	0.54	4.5	111.24	-2.2	14.58	4.3
2020 f	2.00	-10.5	0.48	-10.5	110.27	-0.9	14.64	0.4
2021 f	2.25	12.1	0.54	12.1	116.38	5.5	15.56	6.3
2022 f	2.45	9.2	0.59	9.2	121.54	4.4	16.33	4.9
2023 f	2.64	7.5	0.64	7.5	126.54	4.1	17.00	4.1

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 48 - Malaysia investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change
2007	0.53	8.0	0.25	-42.3	0.52	17.8	0.55	18.5	7.12	17.9	0.45	7.8	3.18	22.0	0.06	15.7	1.135	15.6
2008	0.60	12.7	0.44	80.4	0.49	-5.5	0.63	14.9	8.33	17.0	0.55	21.7	2.85	-10.3	0.05	-13.5	0.966	-14.8
2009	0.72	18.9	0.55	24.7	0.54	8.9	1.05	66.9	10.24	22.9	0.54	-3.1	3.02	6.1	0.06	24.2	1.189	23.0
2010	0.73	2.6	1.19	114.2	0.50	-6.6	0.83	-21.3	9.61	-6.2	0.58	8.4	2.79	-7.6	0.04	-27.6	0.860	-27.6
2011	0.78	5.7	0.74	-37.8	0.57	12.9	0.69	-16.8	10.40	8.2	0.63	9.3	3.22	15.3	0.13	209.0	0.569	-33.8
2012	1.02	30.7	0.79	7.3	0.72	26.3	0.61	-12.0	11.70	12.5	0.79	25.3	3.86	20.1	0.11	-14.2	0.499	-12.3
2013	1.10	7.9	1.02	28.9	0.75	4.3	0.71	17.6	11.69	-0.1	0.85	7.3	3.78	-2.2	0.11	-1.4	0.492	-1.5
2014	1.12	2.2	1.76	72.6	0.90	20.1	0.86	21.0	11.28	-3.5	0.83	-2.9	3.89	2.9	0.11	-2.3	0.468	-4.8
2015	1.11	-1.2	2.11	19.7	0.87	-2.8	0.86	0.0	11.07	-1.9	0.89	7.4	3.93	1.2	0.11	-3.7	0.463	-1.0
2016	1.08	-2.7	2.10	-0.3	0.86	-1.8	0.90	4.5	11.65	5.3	0.92	3.3	3.67	-6.8	0.10	-1.6	0.437	-5.7
2017	1.23	14.0	2.40	14.1	1.00	17.4	1.07	18.6	14.08	20.8	1.07	16.1	4.27	16.6	0.12	14.3	0.506	15.9
2018	1.18	-3.7	2.33	-3.0	1.01	0.2	1.07	0.1	14.13	0.4	1.08	0.8	4.30	0.7	0.13	13.5	0.477	-5.8
2019 f	1.15	-2.4	2.26	-2.7	1.02	1.0	1.04	-3.4	13.69	-3.1	0.99	-8.4	4.32	0.3	0.13	-0.3	0.467	-2.1
2020 f	1.15	-0.5	2.25	-0.8	1.02	0.7	1.02	-1.7	13.11	-4.2	0.96	-3.1	4.22	-2.3	0.14	1.9	0.468	0.2
2021 f	1.19	3.8	2.32	3.4	1.11	8.7	1.11	9.4	14.44	10.1	1.02	7.2	4.54	7.6	0.14	3.6	0.484	3.6
2022 f	1.24	3.7	2.42	4.0	1.17	4.9	1.17	4.9	15.41	6.7	1.08	4.9	4.77	5.1	0.15	4.1	0.501	3.4
2023 f	1.28	3.5	2.50	3.5	1.22	4.7	1.22	4.8	16.31	5.9	1.13	5.1	5.00	5.0	0.15	4.2	0.517	3.1

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 49 - Malaysia investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	0.16	15.2	0.07	-40.6	0.15	25.7	0.16	26.5	2.07	25.8	0.13	15.0	0.92	30.2	0.02	23.4	0.330	23.3
2008	0.18	16.2	0.13	86.7	0.15	-2.6	0.19	18.5	2.50	20.7	0.17	25.5	0.85	-7.5	0.01	-10.8	0.290	-12.2
2009	0.20	12.4	0.16	26.5	0.15	3.0	0.30	57.8	2.90	16.2	0.15	-8.4	0.86	0.3	0.02	17.4	0.337	16.3
2010	0.23	12.3	0.35	120.9	0.16	2.2	0.26	-13.9	2.98	2.7	0.18	18.7	0.87	1.1	0.01	-20.8	0.267	-20.8
2011	0.25	11.3	0.22	-36.1	0.19	18.9	0.23	-12.5	3.40	13.9	0.21	15.0	1.05	21.4	0.04	225.2	0.186	-30.3
2012	0.33	29.5	0.25	9.9	0.23	25.1	0.20	-12.8	3.79	11.5	0.26	24.1	1.25	19.0	0.04	-15.0	0.162	-13.1
2013	0.35	5.8	0.33	32.1	0.24	2.2	0.23	15.2	3.71	-2.0	0.27	5.2	1.20	-4.1	0.04	-3.3	0.156	-3.5
2014	0.34	-1.6	0.56	71.5	0.27	15.7	0.26	16.5	3.45	-7.1	0.25	-6.5	1.19	-1.0	0.03	-5.9	0.143	-8.4
2015	0.28	-17.2	0.63	13.3	0.22	-18.6	0.22	-16.2	2.83	-17.8	0.23	-10.0	1.01	-15.2	0.03	-19.3	0.119	-17.0
2016	0.26	-8.4	0.59	-7.2	0.21	-7.5	0.22	-1.6	2.81	-0.9	0.22	-2.7	0.88	-12.3	0.02	-7.3	0.105	-11.2
2017	0.29	10.0	0.62	5.4	0.23	13.2	0.25	14.4	3.27	16.6	0.25	12.0	0.99	12.5	0.03	10.2	0.118	11.8
2018	0.29	2.6	0.57	-8.4	0.25	6.7	0.27	6.7	3.50	7.0	0.27	7.4	1.07	7.3	0.03	21.0	0.118	0.4
2019 f	0.28	-4.9	0.55	-4.1	0.25	-1.6	0.25	-5.9	3.30	-5.6	0.24	-10.7	1.04	-2.3	0.03	-2.9	0.113	-4.7
2020 f	0.28	-0.5	0.54	-0.7	0.25	0.7	0.25	-1.7	3.17	-4.2	0.23	-3.1	1.02	-2.3	0.03	1.9	0.113	0.2
2021 f	0.29	3.8	0.56	4.3	0.27	8.7	0.27	9.4	3.48	10.1	0.25	7.2	1.10	7.6	0.03	3.6	0.117	3.6
2022 f	0.30	3.7	0.58	3.3	0.28	4.9	0.28	4.9	3.72	6.7	0.26	4.9	1.15	5.1	0.04	4.1	0.121	3.4
2023 f	0.31	3.5	0.60	3.5	0.30	4.7	0.30	4.8	3.94	5.9	0.27	5.1	1.21	5.0	0.04	4.2	0.125	3.1

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.24

Source: Oxford Economics

**Table 50 - Mexico**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Peso	% change	Billion US\$	% change	2015=100	% change	Billion Peso 2015 prices	% change
2007	18.41	35.6	1.68	35.3	59.02	23.3	116.57	0.8
2008	17.17	-6.8	1.54	-8.6	61.58	4.3	114.85	-1.5
2009	13.65	-20.5	1.01	-34.4	35.51	-42.3	92.09	-19.8
2010	13.39	-1.9	1.06	4.9	55.48	56.2	112.44	22.1
2011	17.81	33.0	1.43	35.0	60.44	8.9	121.79	8.3
2012	23.63	32.7	1.80	25.5	62.72	3.8	128.82	5.8
2013	25.35	7.3	1.99	10.6	76.31	21.7	125.01	-3.0
2014	26.11	3.0	1.96	-1.3	70.63	-7.4	134.61	7.7
2015	35.21	34.8	2.22	13.1	100.00	41.6	141.38	5.0
2016	44.82	27.3	2.40	8.1	98.76	-1.2	143.44	1.5
2017	45.37	1.2	2.40	0.0	106.61	7.9	151.30	5.5
2018	42.91	-5.4	2.23	-7.0	105.91	-0.7	155.00	2.4
2019 f	34.34	-20.0	1.78	-20.0	101.20	-4.4	153.38	-1.0
2020 f	29.73	-13.4	1.54	-13.4	90.00	-11.1	142.06	-7.4
2021 f	31.38	5.5	1.63	5.5	90.20	0.2	153.69	8.2
2022 f	33.19	5.8	1.72	5.8	92.15	2.2	153.76	0.0
2023 f	35.42	6.7	1.84	6.7	94.09	2.1	157.55	2.5

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 51 - Mexico investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Peso 2015 prices	% change	Billion Peso 2015 prices	% change	Billion Peso 2015 prices	% change	Billion Peso 2015 prices	% change	Billion Peso 2015 prices	% change	Billion Peso 2015 prices	% change	Billion Peso 2015 prices	% change	Billion Peso 2015 prices	% change	Billion Peso 2015 prices	% change
2007	14.50	23.4	19.44	67.7	73.37	5.8	33.63	10.9	98.52	19.0	1.89	12.6	135.10	11.9	3.59	15.3	4.746	4.9
2008	40.82	181.6	24.10	24.0	47.72	-35.0	23.21	-31.0	89.08	-9.6	2.73	44.9	216.02	59.9	6.33	76.4	8.794	85.3
2009	39.35	-3.6	16.43	-31.8	22.23	-53.4	14.90	-35.8	73.99	-16.9	1.68	-38.3	55.35	-74.4	2.29	-63.8	2.853	-67.6
2010	25.74	-34.6	29.69	80.6	23.14	4.1	18.17	21.9	129.33	74.8	4.27	153.2	121.08	118.7	3.07	34.2	3.295	15.5
2011	25.52	-0.8	30.47	2.6	26.86	16.1	19.23	5.9	126.15	-2.5	4.76	11.6	163.00	34.6	4.34	41.4	5.830	76.9
2012	31.15	22.0	33.37	9.5	25.75	-4.1	16.41	-14.6	106.78	-15.4	4.81	0.9	172.67	5.9	5.60	28.9	7.022	20.4
2013	43.69	40.3	34.66	3.9	40.75	58.3	21.27	29.6	105.32	-1.4	3.85	-20.0	286.45	65.9	9.58	71.0	12.967	84.7
2014	60.68	38.9	28.13	-18.9	55.48	36.1	24.18	13.7	124.61	18.3	3.89	1.1	212.12	-25.9	7.29	-23.9	9.723	-25.0
2015	41.07	-32.3	54.08	92.3	67.88	22.4	24.88	2.9	108.45	-13.0	4.19	7.6	262.01	23.5	9.87	35.4	13.178	35.5
2016	31.68	-22.9	57.21	5.8	65.13	-4.1	21.25	-14.6	77.11	-28.9	2.96	-29.3	266.35	1.7	10.94	10.9	11.647	-11.6
2017	46.03	45.3	56.29	-1.6	87.08	33.7	29.68	39.6	90.53	17.4	1.99	-32.9	292.32	9.8	10.76	-1.7	11.501	-1.3
2018	44.80	-2.7	55.25	-1.8	88.57	1.7	30.09	1.4	86.70	-4.2	1.98	-0.3	275.89	-5.6	11.09	3.0	13.364	16.2
2019 f	45.35	1.2	50.02	-9.5	87.03	-1.7	29.49	-2.0	83.68	-3.5	1.92	-3.4	267.83	-2.9	11.82	6.6	16.280	21.8
2020 f	41.68	-8.1	44.49	-11.1	74.92	-13.9	26.08	-11.6	75.99	-9.2	1.74	-9.0	218.05	-18.6	11.47	-2.9	16.646	2.3
2021 f	41.32	-0.9	43.88	-1.4	76.31	1.9	25.92	-0.6	73.75	-3.0	1.70	-2.3	242.07	11.0	11.31	-1.4	16.408	-1.4
2022 f	41.70	0.9	44.65	1.8	78.12	2.4	26.41	1.9	75.34	2.2	1.74	2.4	247.42	2.2	11.77	4.1	17.080	4.1
2023 f	42.09	0.9	45.28	1.4	79.69	2.0	26.78	1.4	76.26	1.2	1.77	1.7	261.87	5.8	12.13	3.1	17.602	3.1

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 52 - Mexico investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	1.33	23.2	1.78	67.3	6.71	5.6	3.08	10.6	9.01	18.8	0.17	12.4	12.36	11.7	0.33	15.1	0.434	4.7
2008	3.66	175.9	2.16	21.5	4.28	-36.3	2.08	-32.4	7.99	-11.4	0.25	42.0	19.37	56.7	0.57	72.8	0.788	81.5
2009	2.91	-20.4	1.22	-43.7	1.65	-61.5	1.10	-47.0	5.48	-31.4	0.12	-49.1	4.10	-78.8	0.17	-70.1	0.211	-73.2
2010	2.04	-30.1	2.35	93.2	1.83	11.3	1.44	30.4	10.24	86.9	0.34	170.8	9.59	133.9	0.24	43.5	0.261	23.5
2011	2.05	0.7	2.45	4.2	2.16	17.8	1.55	7.5	10.14	-1.0	0.38	13.3	13.10	36.7	0.35	43.5	0.469	79.6
2012	2.37	15.4	2.54	3.6	1.96	-9.3	1.25	-19.3	8.12	-19.9	0.37	-4.5	13.13	0.2	0.43	21.9	0.534	13.9
2013	3.42	44.6	2.72	7.1	3.19	63.2	1.67	33.6	8.25	1.7	0.30	-17.5	22.45	71.0	0.75	76.3	1.016	90.4
2014	4.56	33.1	2.11	-22.2	4.17	30.5	1.82	8.9	9.36	13.4	0.29	-3.1	15.93	-29.0	0.55	-27.0	0.730	-28.1
2015	2.59	-43.2	3.41	61.3	4.28	2.6	1.57	-13.7	6.83	-27.0	0.26	-9.7	16.51	3.6	0.62	13.6	0.830	13.7
2016	1.69	-34.5	3.06	-10.2	3.48	-18.5	1.14	-27.5	4.13	-39.6	0.16	-39.9	14.25	-13.7	0.59	-5.9	0.623	-24.9
2017	2.43	43.6	2.98	-2.8	4.61	32.2	1.57	38.0	4.79	16.0	0.11	-33.6	15.46	8.5	0.57	-2.8	0.608	-2.4
2018	2.33	-4.3	2.87	-3.5	4.61	0.0	1.56	-0.3	4.51	-5.8	0.10	-1.9	14.35	-7.2	0.58	1.3	0.695	14.3
2019 f	2.36	1.1	2.60	-9.6	4.52	-1.8	1.53	-2.1	4.35	-3.6	0.10	-3.5	13.92	-3.0	0.61	6.5	0.846	21.7
2020 f	2.17	-8.1	2.31	-11.1	3.89	-13.9	1.35	-11.6	3.95	-9.2	0.09	-9.0	11.33	-18.6	0.60	-2.9	0.865	2.3
2021 f	2.15	-0.9	2.28	-1.4	3.96	1.9	1.35	-0.6	3.83	-3.0	0.09	-2.3	12.58	11.0	0.59	-1.4	0.852	-1.4
2022 f	2.17	0.9	2.32	1.8	4.06	2.4	1.37	1.9	3.91	2.2	0.09	2.4	12.86	2.2	0.61	4.1	0.887	4.1
2023 f	2.19	0.9	2.35	1.4	4.14	2.0	1.39	1.4	3.96	1.2	0.09	1.7	13.61	5.8	0.63	3.1	0.915	3.1

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.05

Source: Oxford Economics

**Table 53 - Poland**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Zloty	% change	Billion US\$	% change	2015=100	% change	Billion Zloty 2015 prices	% change
2007	2.03	10.5	0.73	23.9	81.13	11.5	14.57	20.5
2008	2.15	6.1	0.89	21.9	83.54	3.0	16.41	12.6
2009	1.40	-34.7	0.45	-49.6	64.44	-22.9	16.36	-0.3
2010	1.15	-18.3	0.38	-15.5	60.39	-6.3	18.27	11.6
2011	1.64	43.2	0.55	45.7	72.80	20.6	21.01	15.0
2012	1.80	9.7	0.55	-0.2	70.48	-3.2	22.32	6.3
2013	1.81	0.7	0.57	3.7	75.30	6.8	22.60	1.2
2014	2.38	31.4	0.75	31.7	87.08	15.6	24.50	8.4
2015	2.97	24.6	0.79	4.2	100.00	14.8	26.23	7.1
2016	2.88	-2.8	0.73	-7.1	93.17	-6.8	28.52	8.7
2017	3.10	7.4	0.82	12.2	96.94	4.0	29.99	5.2
2018	3.71	19.8	1.03	25.4	108.98	12.4	32.53	8.5
2019 f	3.30	-11.2	0.86	-16.4	121.37	11.4	34.69	6.6
2020 f	2.91	-11.9	0.76	-11.9	127.22	4.8	35.05	1.0
2021 f	3.27	12.6	0.85	12.6	131.67	3.5	36.70	4.7
2022 f	3.54	8.1	0.92	8.1	137.62	4.5	38.10	3.8
2023 f	3.80	7.5	0.99	7.5	144.55	5.0	39.91	4.8

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 54 - Poland investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Zloty 2015 prices	% change	Billion Zloty 2015 prices	% change	Billion Zloty 2015 prices	% change	Billion Zloty 2015 prices	% change	Billion Zloty 2015 prices	% change	Billion Zloty 2015 prices	% change	Billion Zloty 2015 prices	% change	Billion Zloty 2015 prices	% change	Billion Zloty 2015 prices	% change
2007	4.40	21.5	4.08	3.9	1.41	2.9	2.54	9.0	4.80	16.5	0.62	17.3	5.93	68.2	0.17	35.3	0.545	38.9
2008	4.14	-5.9	4.93	20.8	1.55	9.9	2.71	6.5	3.03	-36.9	0.26	-57.9	5.17	-12.8	0.19	7.0	0.587	7.8
2009	2.95	-28.7	4.01	-18.5	0.95	-38.7	1.63	-39.7	1.99	-34.2	0.25	-5.7	4.83	-6.5	0.26	42.0	0.694	18.2
2010	1.56	-47.0	3.83	-4.7	0.92	-2.6	1.62	-0.5	2.40	20.4	0.33	34.5	4.53	-6.2	0.17	-34.3	0.448	-35.4
2011	1.94	23.9	4.61	20.4	0.95	2.5	1.90	17.2	2.79	16.3	0.30	-11.3	6.65	46.7	0.28	62.1	0.750	67.2
2012	1.48	-23.6	4.53	-1.7	1.00	5.5	1.95	2.5	2.46	-11.8	0.20	-30.9	5.59	-16.0	0.29	4.7	0.783	4.4
2013	1.88	27.2	4.73	4.4	1.07	7.1	2.03	4.2	2.55	3.7	0.28	34.6	6.25	11.9	0.33	11.8	0.829	5.9
2014	2.07	9.8	5.30	12.2	1.29	20.1	2.25	10.6	2.85	11.5	0.40	43.9	8.83	41.2	0.35	5.1	0.887	7.1
2015	2.18	5.5	6.68	25.9	1.29	0.3	2.28	1.7	2.82	-1.0	0.35	-11.9	10.25	16.1	0.42	20.7	1.033	16.4
2016	2.74	25.4	5.64	-15.6	1.19	-8.2	2.22	-2.8	2.91	3.5	0.31	-11.8	12.10	18.1	0.43	3.5	1.056	2.2
2017	3.23	18.0	5.60	-0.7	1.20	1.4	2.38	7.4	3.05	4.8	0.32	4.2	13.44	11.0	0.47	9.1	1.201	13.7
2018	3.45	6.7	6.35	13.5	1.34	11.4	2.72	14.0	3.47	13.7	0.35	8.4	14.37	6.9	0.53	12.1	1.431	19.1
2019 f	3.50	1.7	7.02	10.5	1.45	8.3	2.99	10.0	4.06	16.9	0.38	10.2	15.36	6.9	0.64	21.8	1.838	28.5
2020 f	3.54	1.1	7.39	5.3	1.54	6.4	3.15	5.5	4.22	4.1	0.42	8.7	14.74	-4.1	0.69	7.8	2.042	11.1
2021 f	3.65	3.1	7.59	2.7	1.59	3.0	3.25	3.0	4.40	4.1	0.44	6.2	15.56	5.5	0.72	4.2	2.145	5.1
2022 f	3.73	2.3	7.86	3.6	1.66	4.1	3.37	3.8	4.61	4.8	0.47	5.7	16.86	8.4	0.77	6.1	2.258	5.2
2023 f	3.83	2.5	8.24	4.9	1.71	3.5	3.48	3.2	4.83	4.8	0.49	4.9	18.54	9.9	0.81	5.4	2.362	4.6

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 55 - Poland investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	1.59	36.2	1.47	16.5	0.51	15.4	0.92	22.2	1.73	30.7	0.23	31.5	2.14	88.6	0.06	51.7	0.197	55.7
2008	1.72	8.1	2.04	38.8	0.64	26.3	1.12	22.3	1.26	-27.5	0.11	-51.6	2.15	0.2	0.08	22.9	0.244	23.8
2009	0.95	-44.9	1.29	-37.1	0.30	-52.7	0.52	-53.4	0.64	-49.2	0.08	-27.2	1.55	-27.8	0.08	9.6	0.222	-8.7
2010	0.52	-45.2	1.27	-1.4	0.31	0.8	0.54	2.9	0.80	24.6	0.11	39.2	1.50	-3.0	0.06	-32.0	0.149	-33.2
2011	0.65	26.1	1.55	22.5	0.32	4.4	0.64	19.2	0.94	18.3	0.10	-9.8	2.25	49.3	0.10	65.0	0.253	70.2
2012	0.45	-30.5	1.39	-10.6	0.31	-4.0	0.60	-6.8	0.76	-19.7	0.06	-37.1	1.72	-23.6	0.09	-4.7	0.240	-5.0
2013	0.60	31.1	1.50	7.6	0.34	10.4	0.64	7.4	0.81	6.8	0.09	38.7	1.98	15.3	0.10	15.2	0.262	9.1
2014	0.66	10.0	1.68	12.4	0.41	20.4	0.71	10.9	0.90	11.7	0.13	44.2	2.80	41.5	0.11	5.3	0.281	7.3
2015	0.58	-11.8	1.77	5.3	0.34	-16.1	0.61	-15.0	0.75	-17.2	0.09	-26.3	2.72	-2.9	0.11	0.9	0.274	-2.7
2016	0.69	19.9	1.43	-19.3	0.30	-12.2	0.56	-7.1	0.74	-1.1	0.08	-15.7	3.07	12.9	0.11	-1.1	0.268	-2.3
2017	0.85	23.2	1.48	3.7	0.32	5.9	0.63	12.2	0.81	9.5	0.09	8.9	3.56	16.0	0.12	13.9	0.318	18.8
2018	0.95	11.6	1.76	18.7	0.37	16.5	0.75	19.3	0.96	18.9	0.10	13.4	3.98	11.9	0.15	17.3	0.396	24.6
2019 f	0.91	-4.4	1.83	3.9	0.38	1.8	0.78	3.4	1.06	9.9	0.10	3.7	4.00	0.5	0.17	14.5	0.479	20.8
2020 f	0.92	1.1	1.93	5.3	0.40	6.4	0.82	5.5	1.10	4.1	0.11	8.7	3.84	-4.1	0.18	7.8	0.532	11.1
2021 f	0.95	3.1	1.98	2.7	0.41	3.0	0.85	3.0	1.15	4.1	0.12	6.2	4.05	5.5	0.19	4.2	0.559	5.1
2022 f	0.97	2.3	2.05	3.6	0.43	4.1	0.88	3.8	1.20	4.8	0.12	5.7	4.39	8.4	0.20	6.1	0.588	5.2
2023 f	1.00	2.5	2.15	4.9	0.45	3.5	0.91	3.2	1.26	4.8	0.13	4.9	4.83	9.9	0.21	5.4	0.615	4.6

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.26

Source: Oxford Economics

**Table 56 - Russia**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Ruble	% change	Billion US\$	% change	2015=100	% change	Billion Ruble 2015 prices	% change
2007	30.64	40.2	1.20	49.0	47.62	51.8	737.27	8.1
2008	50.62	65.2	2.04	70.1	55.59	16.7	721.65	-2.1
2009	38.40	-24.1	1.21	-40.8	49.34	-11.3	583.45	-19.2
2010	38.86	1.2	1.28	6.1	55.21	11.9	641.42	9.9
2011	52.27	34.5	1.78	39.0	66.69	20.8	715.61	11.6
2012	66.09	26.4	2.13	19.5	79.99	19.9	769.93	7.6
2013	72.75	10.1	2.28	7.5	90.73	13.4	805.48	4.6
2014	90.95	25.0	2.37	3.7	95.49	5.2	816.63	1.4
2015	103.28	13.6	1.69	-28.5	100.00	4.7	834.48	2.2
2016	94.88	-8.1	1.41	-16.5	108.03	8.0	884.08	5.9
2017	98.03	3.3	1.68	18.7	117.75	9.0	880.58	-0.4
2018	119.77	22.2	1.91	13.8	122.98	4.4	887.98	0.8
2019 f	115.14	-3.9	1.78	-6.9	123.46	0.4	911.12	2.6
2020 f	87.90	-23.7	1.36	-23.7	113.67	-7.9	879.79	-3.4
2021 f	98.63	12.2	1.52	12.2	122.76	8.0	904.08	2.8
2022 f	113.63	15.2	1.76	15.2	127.84	4.1	927.49	2.6
2023 f	119.19	4.9	1.84	4.9	131.90	3.2	939.37	1.3

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 57 - Russia investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Ruble 2015 prices	% change	Billion Ruble 2015 prices	% change	Billion Ruble 2015 prices	% change	Billion Ruble 2015 prices	% change	Billion Ruble 2015 prices	% change	Billion Ruble 2015 prices	% change	Billion Ruble 2015 prices	% change	Billion Ruble 2015 prices	% change	Billion Ruble 2015 prices	% change
2007	194.98	6.7	28.66	81.9	39.51	22.6	27.71	22.3	24.24	39.7	10.56	31.6	44.31	63.9	18.10	7.4	10.851	10.9
2008	289.52	48.5	28.77	0.4	52.91	33.9	37.33	34.7	32.35	33.5	14.41	36.5	68.93	55.6	24.25	34.0	14.718	35.6
2009	245.50	-15.2	27.10	-5.8	40.23	-24.0	26.42	-29.2	23.97	-25.9	11.29	-21.7	65.29	-5.3	31.34	29.3	14.948	1.6
2010	206.90	-15.7	31.02	14.4	46.19	14.8	29.72	12.5	27.67	15.4	13.03	15.4	63.95	-2.1	36.44	16.3	16.828	12.6
2011	254.10	22.8	40.71	31.3	41.45	-10.3	29.10	-2.1	35.83	29.5	16.93	30.0	68.64	7.3	47.68	30.9	20.818	23.7
2012	272.66	7.3	45.84	12.6	56.39	36.0	39.16	34.6	49.65	38.6	24.52	44.8	77.31	12.6	65.54	37.5	26.645	28.0
2013	262.26	-3.8	49.48	7.9	68.28	21.1	50.94	30.1	51.79	4.3	28.16	14.8	116.45	50.6	90.47	38.0	25.731	-3.4
2014	255.72	-2.5	51.57	4.2	68.48	0.3	55.11	8.2	53.88	4.0	29.79	5.8	138.33	18.8	114.63	26.7	23.172	-9.9
2015	294.73	15.3	52.02	0.9	73.52	7.4	69.08	25.4	70.80	31.4	46.64	56.5	155.99	12.8	108.84	-5.0	12.566	-45.8
2016	279.36	-5.2	55.35	6.4	77.91	6.0	79.50	15.1	86.94	22.8	56.67	21.5	163.63	4.9	105.92	-2.7	13.530	7.7
2017	304.56	9.0	57.85	4.5	88.65	13.8	88.21	11.0	94.24	8.4	58.61	3.4	197.06	20.4	113.43	7.1	17.863	32.0
2018	305.87	0.4	59.68	3.2	90.98	2.6	86.00	-2.5	96.99	2.9	57.18	-2.4	225.34	14.4	104.08	-8.2	26.467	48.2
2019 f	312.64	2.2	60.94	2.1	72.39	-20.4	81.56	-5.2	97.06	0.1	56.16	-1.8	206.87	-8.2	39.43	-62.1	54.115	104.5
2020 f	258.68	-17.3	54.96	-9.8	69.10	-4.6	77.70	-4.7	96.28	-0.8	52.82	-6.0	168.88	-18.4	25.79	-34.6	56.352	4.1
2021 f	275.52	6.5	57.73	5.0	75.23	8.9	83.88	7.9	99.68	3.5	54.60	3.4	218.79	29.6	27.16	5.3	60.310	7.0
2022 f	290.01	5.3	60.28	4.4	75.91	0.9	84.39	0.6	102.24	2.6	56.01	2.6	236.53	8.1	28.71	5.7	64.097	6.3
2023 f	301.32	3.9	61.64	2.3	77.43	2.0	86.46	2.5	103.97	1.7	57.04	1.8	253.50	7.2	30.20	5.2	67.428	5.2

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 58 - Russia investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	7.62	13.4	1.12	93.3	1.54	30.3	1.08	30.0	0.95	48.5	0.41	39.9	1.73	74.2	0.71	14.2	0.424	17.9
2008	11.65	52.8	1.16	3.3	2.13	37.8	1.50	38.7	1.30	37.4	0.58	40.5	2.77	60.1	0.98	37.9	0.592	39.6
2009	7.71	-33.8	0.85	-26.5	1.26	-40.6	0.83	-44.7	0.75	-42.2	0.35	-38.9	2.05	-26.1	0.98	0.9	0.469	-20.7
2010	6.82	-11.6	1.02	20.0	1.52	20.4	0.98	18.0	0.91	21.1	0.43	21.0	2.11	2.7	1.20	21.9	0.554	18.1
2011	8.65	26.9	1.39	35.6	1.41	-7.3	0.99	1.2	1.22	33.8	0.58	34.3	2.34	10.9	1.62	35.2	0.709	27.8
2012	8.77	1.4	1.47	6.4	1.81	28.6	1.26	27.2	1.60	31.0	0.79	36.9	2.49	6.5	2.11	29.9	0.857	21.0
2013	8.24	-6.1	1.55	5.4	2.14	18.2	1.60	27.0	1.63	1.8	0.88	12.1	3.66	47.1	2.84	34.8	0.808	-5.7
2014	6.66	-19.1	1.34	-13.5	1.78	-16.8	1.44	-10.3	1.40	-13.7	0.78	-12.2	3.60	-1.5	2.99	5.1	0.604	-25.3
2015	4.84	-27.4	0.85	-36.5	1.21	-32.4	1.13	-21.1	1.16	-17.2	0.77	-1.4	2.56	-29.0	1.79	-40.2	0.206	-65.8
2016	4.17	-13.9	0.83	-3.3	1.16	-3.7	1.19	4.6	1.30	11.6	0.85	10.4	2.44	-4.7	1.58	-11.6	0.202	-2.1
2017	5.22	25.3	0.99	20.1	1.52	30.8	1.51	27.5	1.62	24.6	1.00	18.9	3.38	38.4	1.94	23.1	0.306	51.7
2018	4.88	-6.5	0.95	-4.0	1.45	-4.5	1.37	-9.2	1.55	-4.2	0.91	-9.2	3.60	6.5	1.66	-14.6	0.422	37.9
2019 f	4.83	-1.1	0.94	-1.2	1.12	-23.0	1.26	-8.2	1.50	-3.1	0.87	-4.9	3.20	-11.1	0.61	-63.3	0.836	97.9
2020 f	4.00	-17.3	0.85	-9.8	1.07	-4.6	1.20	-4.7	1.49	-0.8	0.82	-6.0	2.61	-18.4	0.40	-34.6	0.870	4.1
2021 f	4.26	6.5	0.89	5.0	1.16	8.9	1.30	7.9	1.54	3.5	0.84	3.4	3.38	29.6	0.42	5.3	0.932	7.0
2022 f	4.48	5.3	0.93	4.4	1.17	0.9	1.30	0.6	1.58	2.6	0.87	2.6	3.65	8.1	0.44	5.7	0.990	6.3
2023 f	4.65	3.9	0.95	2.3	1.20	2.0	1.34	2.5	1.61	1.7	0.88	1.8	3.92	7.2	0.47	5.2	1.042	5.2

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.02

Source: Oxford Economics



**Table 59 - Slovakia**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Euro	% change	Billion US\$	% change	2015=100	% change	Billion Euro 2015 prices	% change
2007	0.160	-40.9	0.219	-35.6	88.5	-19.2	1.021	8.2
2008	0.189	18.2	0.278	26.9	141.9	60.3	0.982	-3.8
2009	0.106	-44.0	0.148	-46.9	110.3	-22.3	0.773	-21.3
2010	0.070	-33.7	0.093	-36.9	76.5	-30.6	1.065	37.8
2011	0.157	123.6	0.219	134.8	135.9	77.6	1.090	2.3
2012	0.152	-3.4	0.195	-10.8	85.9	-36.8	1.126	3.3
2013	0.141	-7.0	0.187	-3.9	53.3	-37.9	1.126	0.0
2014	0.193	37.0	0.257	37.1	67.3	26.3	1.398	24.2
2015	0.223	15.2	0.247	-3.8	100.0	48.5	1.520	8.7
2016	0.222	-0.4	0.245	-0.6	85.2	-14.8	1.538	1.2
2017	0.220	-0.9	0.248	1.2	99.1	16.4	1.596	3.8
2018	0.232	5.7	0.275	10.6	87.2	-12.0	1.867	17.0
2019 f	0.280	20.4	0.313	14.1	80.9	-7.2	1.750	-6.3
2020 f	0.228	-18.6	0.255	-18.6	82.4	1.8	1.689	-3.5
2021 f	0.262	14.8	0.293	14.8	88.8	7.7	1.842	9.1
2022 f	0.275	5.3	0.308	5.3	90.3	1.7	1.874	1.7
2023 f	0.286	4.0	0.321	4.0	92.8	2.8	1.889	0.8

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 60 - Slovakia investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change
2007	0.597	1.4	0.329	1.7	0.259	16.8	0.502	18.8	0.590	18.7	0.047	13.9	1.563	-44.0	0.005	-57.8	0.020	-57.8
2008	0.557	-6.6	0.664	101.9	0.381	47.2	0.695	38.4	0.785	33.0	0.071	51.5	1.522	-2.6	0.010	111.5	0.042	111.5
2009	0.377	-32.4	0.439	-33.9	0.200	-47.4	0.385	-44.6	0.445	-43.2	0.036	-49.4	1.574	3.4	0.013	30.2	0.055	30.2
2010	0.313	-17.0	0.384	-12.6	0.166	-17.1	0.330	-14.3	0.524	17.7	0.047	30.8	1.061	-32.6	0.005	-62.1	0.021	-62.1
2011	0.681	117.4	0.578	50.3	0.248	49.4	0.503	52.5	1.745	232.7	0.193	312.0	1.991	87.6	0.003	-40.1	0.012	-40.1
2012	0.248	-63.6	0.455	-21.2	0.254	2.4	0.530	5.2	0.475	-72.8	0.022	-88.9	2.100	5.5	0.004	21.7	0.015	21.7
2013	0.205	-17.1	0.340	-25.2	0.130	-48.7	0.295	-44.3	0.343	-27.8	0.017	-19.7	1.110	-47.1	0.002	-45.9	0.008	-45.9
2014	0.245	19.3	0.568	66.9	0.168	29.0	0.368	25.0	0.384	12.1	0.018	5.1	1.216	9.5	0.001	-48.6	0.004	-48.6
2015	0.313	28.0	1.001	76.1	0.189	12.3	0.393	6.8	0.358	-6.9	0.017	-8.2	1.978	62.7	0.002	155.9	0.011	155.9
2016	0.332	6.0	0.531	-46.9	0.221	17.1	0.467	18.8	0.502	40.4	0.029	70.8	2.261	14.3	0.002	-3.0	0.010	-3.0
2017	0.402	21.2	0.553	4.1	0.219	-1.0	0.501	7.2	0.610	21.5	0.032	11.6	3.133	38.6	0.004	66.9	0.017	66.9
2018	0.419	4.1	0.586	5.9	0.193	-11.7	0.414	-17.3	0.417	-31.7	0.020	-36.4	2.455	-21.6	0.003	-16.7	0.014	-16.7
2019 f	0.376	-10.2	0.530	-9.6	0.191	-1.2	0.423	2.2	0.419	0.5	0.017	-16.8	2.158	-12.1	0.003	-10.1	0.013	-10.1
2020 f	0.371	-1.4	0.512	-3.3	0.216	13.2	0.462	9.2	0.409	-2.2	0.016	-5.9	2.052	-4.9	0.003	7.9	0.014	4.7
2021 f	0.388	4.7	0.552	7.8	0.241	11.3	0.512	10.7	0.423	3.3	0.016	-0.9	2.236	8.9	0.003	0.0	0.014	4.1
2022 f	0.386	-0.7	0.565	2.3	0.241	0.1	0.514	0.4	0.440	4.0	0.017	6.6	2.249	0.6	0.003	3.9	0.015	3.7
2023 f	0.390	1.2	0.583	3.2	0.250	3.6	0.532	3.5	0.464	5.6	0.018	7.7	2.172	-3.4	0.004	4.2	0.015	3.4

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 61 - Slovakia investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	0.818	10.6	0.451	11.0	0.355	27.5	0.688	29.6	0.808	29.5	0.064	24.3	2.141	-38.9	0.006	-53.9	0.027	-53.9
2008	0.820	0.3	0.977	116.7	0.560	58.0	1.022	48.6	1.154	42.8	0.104	62.6	2.238	4.5	0.014	127.0	0.062	127.0
2009	0.525	-35.9	0.612	-37.3	0.279	-50.1	0.537	-47.5	0.621	-46.2	0.050	-52.1	2.193	-2.0	0.018	23.4	0.076	23.4
2010	0.415	-21.0	0.509	-16.8	0.220	-21.1	0.438	-18.5	0.695	12.0	0.062	24.4	1.407	-35.9	0.006	-64.0	0.027	-64.0
2011	0.947	128.2	0.804	57.8	0.345	56.8	0.701	60.1	2.428	249.3	0.269	332.5	2.771	97.0	0.004	-37.1	0.017	-37.1
2012	0.318	-66.4	0.585	-27.3	0.327	-5.5	0.680	-2.9	0.610	-74.9	0.028	-89.7	2.698	-2.6	0.005	12.3	0.019	12.3
2013	0.272	-14.4	0.452	-22.6	0.173	-47.0	0.391	-42.5	0.455	-25.4	0.023	-17.0	1.475	-45.4	0.003	-44.1	0.011	-44.1
2014	0.325	19.3	0.755	67.0	0.223	29.1	0.489	25.1	0.511	12.2	0.024	5.1	1.616	9.6	0.001	-48.6	0.006	-48.6
2015	0.347	6.8	1.110	47.0	0.209	-6.2	0.436	-10.9	0.397	-22.3	0.019	-23.3	2.195	35.8	0.003	113.7	0.012	113.7
2016	0.367	5.7	0.588	-47.1	0.245	16.7	0.517	18.4	0.555	40.0	0.032	70.3	2.501	14.0	0.003	-3.3	0.011	-3.3
2017	0.454	23.7	0.625	6.3	0.247	1.0	0.566	9.4	0.689	24.1	0.036	13.9	3.539	41.5	0.005	70.4	0.020	70.4
2018	0.494	8.8	0.692	10.7	0.228	-7.6	0.489	-13.5	0.492	-28.6	0.024	-33.5	2.900	-18.1	0.004	-12.9	0.017	-12.9
2019 f	0.421	-14.9	0.593	-14.3	0.214	-6.3	0.474	-3.2	0.469	-4.7	0.019	-21.1	2.416	-16.7	0.003	-14.8	0.015	-14.8
2020 f	0.415	-1.4	0.573	-3.3	0.242	13.2	0.518	9.2	0.458	-2.2	0.018	-5.9	2.298	-4.9	0.004	7.9	0.015	4.7
2021 f	0.435	4.7	0.618	7.8	0.269	11.3	0.573	10.7	0.474	3.3	0.018	-0.9	2.503	8.9	0.004	0.0	0.016	4.1
2022 f	0.432	-0.7	0.632	2.3	0.270	0.1	0.576	0.4	0.492	4.0	0.019	6.6	2.518	0.6	0.004	3.9	0.016	3.7
2023 f	0.437	1.2	0.652	3.2	0.279	3.6	0.596	3.5	0.520	5.6	0.020	7.7	2.432	-3.4	0.004	4.2	0.017	3.4

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.89

Source: Oxford Economics

**Table 62 - Spain**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Euro	% change	Billion US\$	% change	2015=100 Euro	% change	Billion Euro 2015 prices	% change
2007	0.93	6.0	1.28	15.6	130.01	1.3	9.60	3.9
2008	0.79	-15.1	1.17	-8.8	139.84	7.6	9.28	-3.3
2009	0.40	-49.4	0.56	-52.0	89.23	-36.2	7.66	-17.5
2010	0.36	-10.9	0.47	-15.2	79.98	-10.4	7.64	-0.2
2011	0.31	-14.2	0.43	-9.9	82.59	3.3	7.66	0.1
2012	0.30	-1.1	0.39	-8.7	85.34	3.3	6.73	-12.1
2013	0.31	3.3	0.42	6.8	83.74	-1.9	6.53	-3.0
2014	0.43	37.3	0.57	37.4	73.49	-12.2	6.44	-1.3
2015	0.59	35.7	0.65	13.3	100.00	36.1	6.80	5.5
2016	0.58	-0.2	0.65	-0.4	110.34	10.3	7.04	3.6
2017	0.73	24.5	0.82	27.1	118.93	7.8	7.42	5.4
2018	0.73	0.3	0.86	4.9	129.39	8.8	7.40	-0.3
2019 f	0.69	-5.2	0.77	-10.2	122.53	-5.3	7.64	3.3
2020 f	0.52	-24.8	0.58	-24.8	125.45	2.4	7.48	-2.1
2021 f	0.64	23.2	0.72	23.2	130.76	4.2	7.93	6.0
2022 f	0.69	7.5	0.77	7.5	133.46	2.1	8.12	2.4
2023 f	0.72	4.0	0.80	4.0	136.79	2.5	8.27	1.8

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 63 - Spain investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change	Billion Euro 2015 prices	% change
2007	0.51	15.1	0.90	2.2	0.22	7.1	0.17	-3.1	0.46	-3.4	0.09	5.5	1.06	-2.2	0.09	-10.9	0.356	-1.3
2008	0.59	14.8	0.97	7.5	0.23	7.0	0.18	5.5	0.55	18.6	0.09	7.8	1.16	9.3	0.11	15.7	0.355	-0.5
2009	0.42	-29.4	0.58	-40.4	0.15	-35.4	0.13	-29.8	0.35	-36.8	0.06	-33.6	0.81	-29.9	0.08	-26.9	0.285	-19.6
2010	0.36	-14.6	0.49	-15.0	0.12	-17.3	0.11	-8.6	0.30	-13.0	0.07	9.9	0.85	4.8	0.08	3.8	0.303	6.2
2011	0.39	8.9	0.53	8.3	0.13	5.7	0.12	1.2	0.30	0.1	0.07	-4.3	0.87	1.9	0.07	-14.2	0.261	-13.7
2012	0.44	13.5	0.50	-5.0	0.15	14.6	0.14	19.2	0.30	0.7	0.07	0.1	0.93	7.6	0.08	8.8	0.314	20.2
2013	0.46	5.6	0.49	-2.9	0.16	4.0	0.14	1.0	0.28	-8.7	0.07	1.1	1.05	12.6	0.07	-9.8	0.263	-16.3
2014	0.38	-18.9	0.43	-11.7	0.14	-9.8	0.12	-17.4	0.25	-9.6	0.06	-15.8	1.02	-2.3	0.06	-11.0	0.213	-18.9
2015	0.49	29.6	0.60	39.8	0.18	30.3	0.15	31.6	0.36	42.1	0.07	28.7	1.54	50.9	0.08	37.1	0.234	9.7
2016	0.52	6.2	0.65	8.6	0.22	19.6	0.17	11.0	0.41	15.8	0.08	11.5	1.76	13.8	0.09	7.8	0.235	0.3
2017	0.54	4.6	0.71	8.7	0.26	16.2	0.18	7.4	0.45	9.9	0.08	-4.4	1.80	2.5	0.09	1.4	0.240	2.3
2018	0.58	7.7	0.76	7.6	0.28	9.6	0.19	6.4	0.53	16.2	0.09	13.0	1.88	4.2	0.09	3.9	0.314	30.9
2019 f	0.51	-11.8	0.74	-3.3	0.27	-4.2	0.17	-10.7	0.51	-3.3	0.09	-2.4	1.74	-7.1	0.09	-5.9	0.277	-11.7
2020 f	0.51	-0.2	0.76	3.1	0.27	1.4	0.18	6.8	0.53	3.9	0.09	10.2	1.60	-8.1	0.09	5.6	0.279	0.5
2021 f	0.52	1.7	0.79	3.1	0.28	3.1	0.19	2.8	0.54	2.8	0.10	1.6	1.91	19.5	0.10	1.9	0.288	3.4
2022 f	0.53	1.5	0.81	2.8	0.29	1.8	0.19	2.0	0.56	3.0	0.10	3.6	1.85	-3.2	0.10	3.3	0.296	2.8
2023 f	0.53	0.8	0.83	2.9	0.29	2.1	0.20	2.4	0.58	3.4	0.10	4.4	1.84	-0.6	0.10	3.7	0.306	3.1

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 64 - Spain investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	0.70	25.6	1.23	11.5	0.30	16.8	0.23	5.7	0.63	5.4	0.12	15.1	1.45	6.7	0.13	-2.8	0.489	7.7
2008	0.87	23.2	1.42	15.4	0.34	14.9	0.26	13.2	0.80	27.3	0.14	15.7	1.70	17.3	0.16	24.1	0.522	6.8
2009	0.58	-33.1	0.80	-43.6	0.21	-38.8	0.17	-33.5	0.48	-40.1	0.09	-37.1	1.13	-33.6	0.11	-30.7	0.397	-23.8
2010	0.47	-18.7	0.65	-19.2	0.16	-21.3	0.15	-13.1	0.40	-17.2	0.09	4.6	1.13	-0.3	0.11	-1.2	0.401	1.0
2011	0.54	14.4	0.74	13.6	0.18	10.9	0.16	6.2	0.42	5.1	0.09	0.4	1.20	6.9	0.10	-10.0	0.364	-9.4
2012	0.56	4.8	0.65	-12.3	0.19	5.7	0.18	10.0	0.39	-7.0	0.09	-7.6	1.20	-0.7	0.10	0.4	0.403	11.0
2013	0.62	9.1	0.65	0.4	0.21	7.5	0.19	4.3	0.37	-5.6	0.09	4.5	1.39	16.4	0.09	-6.7	0.349	-13.5
2014	0.50	-18.8	0.57	-11.6	0.19	-9.7	0.15	-17.4	0.33	-9.5	0.07	-15.8	1.36	-2.2	0.08	-11.0	0.283	-18.8
2015	0.54	8.2	0.67	16.7	0.20	8.8	0.17	9.8	0.39	18.6	0.08	7.5	1.71	26.0	0.09	14.4	0.260	-8.4
2016	0.57	5.9	0.72	8.3	0.24	19.3	0.19	10.7	0.46	15.5	0.09	11.1	1.94	13.4	0.10	7.5	0.259	0.0
2017	0.61	6.8	0.80	11.0	0.29	18.7	0.20	9.6	0.51	12.2	0.09	-2.4	2.03	4.6	0.10	3.5	0.271	4.4
2018	0.69	12.6	0.90	12.5	0.33	14.7	0.23	11.3	0.62	21.5	0.10	18.1	2.22	8.9	0.11	8.6	0.371	36.9
2019 f	0.58	-16.4	0.83	-8.3	0.30	-9.2	0.19	-15.4	0.57	-8.4	0.10	-7.5	1.95	-12.0	0.10	-10.8	0.311	-16.3
2020 f	0.57	-0.2	0.85	3.1	0.31	1.4	0.21	6.8	0.59	3.9	0.11	10.2	1.79	-8.1	0.11	5.6	0.312	0.5
2021 f	0.58	1.7	0.88	3.1	0.31	3.1	0.21	2.6	0.61	2.8	0.11	1.6	2.14	19.5	0.11	1.9	0.323	3.4
2022 f	0.59	1.5	0.90	2.8	0.32	1.8	0.21	2.0	0.63	3.0	0.11	3.6	2.07	-3.2	0.11	3.3	0.332	2.8
2023 f	0.60	0.8	0.93	2.9	0.33	2.1	0.22	2.4	0.65	3.4	0.12	4.4	2.06	-0.6	0.11	3.7	0.342	3.1

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.89

Source: Oxford Economics

**Table 65 - Switzerland**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Franc	% change	Billion US\$	% change	2015=100	% change	Billion Franc 2015 prices	% change
2007	1.52	30.6	1.26	36.4	93.08	5.4	7.44	4.2
2008	1.69	11.6	1.56	23.6	90.51	-2.8	7.66	2.8
2009	0.99	-41.6	0.91	-41.7	66.50	-26.5	6.47	-15.5
2010	0.86	-13.0	0.83	-9.4	80.27	20.7	7.08	9.5
2011	1.13	30.7	1.27	53.6	91.00	13.4	7.43	4.9
2012	0.98	-12.9	1.05	-17.5	92.81	2.0	6.98	-6.0
2013	1.12	14.4	1.21	15.8	91.86	-1.0	6.85	-1.9
2014	1.18	5.6	1.29	7.0	97.74	6.4	6.84	-0.1
2015	1.14	-4.1	1.18	-8.8	100.00	2.3	6.69	-2.3
2016	0.97	-14.5	0.99	-16.5	106.40	6.4	6.58	-1.5
2017	1.01	3.7	1.02	3.7	111.26	4.6	7.07	7.4
2018	1.32	30.7	1.35	31.6	112.89	1.5	7.34	3.8
2019 f	1.16	-11.7	1.17	-13.1	109.60	-2.9	7.34	-0.1
2020 f	0.87	-25.6	0.87	-25.6	101.07	-7.8	6.94	-5.4
2021 f	1.07	24.1	1.08	24.1	111.52	10.3	7.28	4.9
2022 f	1.12	4.2	1.13	4.2	117.29	5.2	7.39	1.5
2023 f	1.16	3.5	1.17	3.5	118.47	1.0	7.43	0.6

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 66 - Switzerland investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Franc 2015 prices	% change	Billion Franc 2015 prices	% change	Billion Franc 2015 prices	% change	Billion Franc 2015 prices	% change	Billion Franc 2015 prices	% change	Billion Franc 2015 prices	% change	Billion Franc 2015 prices	% change	Billion Franc 2015 prices	% change	Billion Franc 2015 prices	% change
2007	0.36	1.4	1.18	5.4	1.13	9.0	1.10	6.6	1.28	8.3	4.95	-3.2	0.18	4.6	0.24	0.5	0.114	3.8
2008	0.33	-6.8	1.13	-3.8	1.12	-0.9	1.09	-1.2	1.25	-1.9	5.50	11.1	0.16	-9.7	0.25	2.9	0.118	4.1
2009	0.23	-31.3	0.83	-26.8	0.80	-28.7	0.73	-32.9	0.92	-26.7	4.40	-20.1	0.12	-26.8	0.25	-0.4	0.093	-21.5
2010	0.30	29.8	1.02	23.2	0.95	18.3	0.85	16.5	1.15	25.5	4.91	11.7	0.16	34.9	0.25	3.0	0.093	-0.2
2011	0.31	5.2	1.15	13.0	1.06	12.4	1.01	18.7	1.32	14.7	5.04	2.6	0.18	14.7	0.30	16.5	0.102	10.2
2012	0.31	-1.5	1.16	1.0	1.11	4.7	1.03	2.3	1.30	-1.3	5.07	0.5	0.19	2.1	0.33	10.3	0.105	3.0
2013	0.30	-1.9	1.16	-0.4	1.08	-3.2	1.01	-2.8	1.26	-3.5	4.91	-3.2	0.19	0.1	0.34	4.8	0.102	-3.3
2014	0.32	6.9	1.24	6.9	1.15	6.6	1.04	3.2	1.38	9.8	4.92	0.2	0.20	8.0	0.35	2.6	0.116	13.9
2015	0.32	0.9	1.26	1.5	1.17	1.7	1.04	0.4	1.37	-0.4	6.07	23.4	0.20	0.8	0.37	6.8	0.126	8.6
2016	0.33	2.8	1.35	7.3	1.21	4.0	1.08	3.9	1.46	5.9	6.03	-0.7	0.22	6.8	0.42	11.6	0.138	9.8
2017	0.34	2.8	1.42	5.2	1.24	2.2	1.17	8.0	1.54	5.9	6.05	0.3	0.22	3.4	0.44	5.2	0.133	-3.7
2018	0.34	-1.7	1.43	0.6	1.22	-1.8	1.25	7.3	1.72	11.7	5.66	-6.3	0.23	0.2	0.46	3.8	0.136	2.1
2019 f	0.31	-6.8	1.38	-3.3	1.18	-3.1	1.22	-2.3	1.67	-3.0	5.34	-5.8	0.22	-2.9	0.46	0.4	0.136	0.2
2020 f	0.29	-8.7	1.27	-8.2	1.09	-7.9	1.12	-8.2	1.53	-8.3	4.89	-8.4	0.20	-7.5	0.44	-4.4	0.130	-4.4
2021 f	0.31	9.9	1.40	10.2	1.22	12.0	1.25	11.3	1.68	9.5	5.35	9.5	0.22	8.2	0.49	10.9	0.144	10.7
2022 f	0.33	4.3	1.47	4.8	1.29	6.2	1.33	6.2	1.74	3.8	5.63	5.2	0.23	4.7	0.52	6.1	0.152	5.5
2023 f	0.32	-1.1	1.47	0.1	1.33	3.0	1.36	2.5	1.73	-0.5	5.75	2.1	0.23	1.5	0.53	1.7	0.153	1.1

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 67 - Switzerland investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	0.30	5.8	0.98	10.1	0.94	13.8	0.92	11.3	1.06	13.1	4.13	1.1	0.15	9.2	0.20	4.9	0.095	8.4
2008	0.31	3.3	1.05	6.6	1.04	9.9	1.01	9.5	1.15	8.7	5.08	23.1	0.15	0.1	0.23	14.1	0.109	15.4
2009	0.21	-31.6	0.76	-27.1	0.74	-28.9	0.67	-33.2	0.84	-26.9	4.05	-20.4	0.11	-27.0	0.23	-0.7	0.086	-21.8
2010	0.28	35.2	0.98	28.3	0.91	23.3	0.82	21.4	1.10	30.7	4.71	16.4	0.15	40.6	0.24	7.3	0.089	4.0
2011	0.35	23.6	1.30	32.7	1.20	32.0	1.14	39.4	1.49	34.7	5.68	20.6	0.21	34.7	0.33	36.8	0.115	29.4
2012	0.33	-6.7	1.24	-4.4	1.19	-0.9	1.10	-3.1	1.39	-6.5	5.40	-4.8	0.20	-3.3	0.35	4.4	0.112	-2.5
2013	0.32	-0.8	1.25	0.7	1.16	-2.1	1.08	-1.7	1.36	-2.4	5.29	-2.1	0.20	1.2	0.37	6.1	0.110	-2.2
2014	0.35	8.2	1.36	8.3	1.25	8.0	1.13	4.6	1.51	11.2	5.37	1.5	0.22	9.4	0.38	3.9	0.127	15.3
2015	0.34	-4.1	1.31	-3.5	1.21	-3.3	1.08	-4.5	1.43	-5.3	6.31	17.3	0.21	-4.2	0.39	1.5	0.131	3.2
2016	0.34	0.4	1.37	4.8	1.23	1.6	1.10	1.5	1.48	3.5	6.12	-3.0	0.22	4.3	0.42	9.0	0.140	7.2
2017	0.35	2.9	1.44	5.3	1.26	2.2	1.19	8.0	1.57	6.0	6.14	0.4	0.23	3.5	0.45	5.2	0.135	-3.6
2018	0.34	-1.0	1.46	1.3	1.25	-1.1	1.28	8.0	1.76	12.5	5.79	-5.7	0.23	0.9	0.47	4.5	0.139	2.8
2019 f	0.32	-8.3	1.39	-4.8	1.19	-4.6	1.23	-3.9	1.68	-4.5	5.37	-7.3	0.22	-4.5	0.46	-1.2	0.137	-1.4
2020 f	0.29	-8.7	1.28	-8.2	1.09	-7.9	1.13	-8.2	1.54	-8.3	4.92	-8.4	0.20	-7.5	0.44	-4.4	0.131	-4.4
2021 f	0.32	9.9	1.41	10.2	1.23	12.0	1.26	11.3	1.69	9.5	5.39	9.5	0.22	8.2	0.49	10.9	0.145	10.7
2022 f	0.33	4.3	1.47	4.8	1.30	6.2	1.34	6.2	1.75	3.8	5.67	5.2	0.23	4.7	0.52	6.1	0.153	5.5
2023 f	0.33	-1.1	1.48	0.1	1.34	3.0	1.37	2.5	1.74	-0.5	5.79	2.1	0.23	1.5	0.53	1.7	0.154	1.1

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 1.01

Source: Oxford Economics

**Table 68 - Taiwan**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion New Taiwan \$	% change	Billion US\$	% change	2015=100	% change	Billion Tai \$ 2015 prices	% change
2007	117.76	16.1	3.59	15.0	101.09	1.6	213.39	11.3
2008	80.91	-31.3	2.57	-28.4	87.72	-13.2	216.97	1.7
2009	26.46	-67.3	0.80	-68.8	66.93	-23.7	188.43	-13.2
2010	52.11	96.9	1.65	105.7	76.56	14.4	239.94	27.3
2011	61.57	18.2	2.09	26.9	89.83	17.3	264.74	10.3
2012	50.10	-18.6	1.69	-19.0	89.38	-0.5	280.56	6.0
2013	50.31	0.4	1.69	-0.1	93.24	4.3	287.27	2.4
2014	53.25	5.8	1.75	3.8	98.71	5.9	317.55	10.5
2015	51.51	-3.3	1.61	-8.0	100.00	1.3	315.48	-0.7
2016	49.89	-3.2	1.54	-4.4	103.82	3.8	323.32	2.5
2017	53.86	8.0	1.77	14.6	102.63	-1.1	336.52	4.1
2018	64.02	18.8	2.12	20.0	99.18	-3.4	342.58	1.8
2019 f	53.52	-16.4	1.73	-18.5	100.34	1.2	329.63	-3.8
2020 f	45.80	-14.4	1.48	-14.4	99.54	-0.8	322.85	-2.1
2021 f	53.57	17.0	1.73	17.0	101.15	1.6	334.24	3.5
2022 f	55.98	4.5	1.81	4.5	101.85	0.7	348.53	4.3
2023 f	57.98	3.6	1.87	3.6	102.67	0.8	357.87	2.7

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

Table 69 - Taiwan investment

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion New Taiwan \$ 2015 prices	% change	Billion New Taiwan \$ 2015 prices	% change	Billion New Taiwan \$ 2015 prices	% change	Billion New Taiwan \$ 2015 prices	% change	Billion New Taiwan \$ 2015 prices	% change	Billion New Taiwan \$ 2015 prices	% change	Billion New Taiwan \$ 2015 prices	% change	Billion New Taiwan \$ 2015 prices	% change	Billion New Taiwan \$ 2015 prices	% change
2007	60.56	0.6	80.73	-1.5	39.67	8.5	48.17	8.1	817.17	17.7	26.29	6.6	30.25	-6.3	3.58	10.5	22.565	10.5
2008	50.22	-17.1	70.14	-13.1	33.78	-14.8	41.02	-14.8	796.48	-2.5	24.77	-5.8	22.95	-24.1	3.55	-0.9	22.370	-0.9
2009	43.14	-14.1	53.99	-23.0	22.69	-32.9	27.68	-32.5	739.98	-7.1	20.53	-17.1	21.36	-6.9	2.59	-27.1	16.304	-27.1
2010	48.54	12.5	58.56	8.5	30.83	35.9	37.39	35.1	926.88	25.3	27.62	34.5	24.47	14.6	2.47	-4.3	15.600	-4.3
2011	54.80	12.9	68.53	17.0	35.72	15.9	43.23	15.6	1,056.33	14.0	41.07	48.7	28.91	18.1	2.87	15.8	18.070	15.8
2012	53.02	-3.2	69.56	1.5	33.92	-5.0	41.10	-4.9	1,081.32	2.4	34.57	-15.8	28.65	-0.9	3.06	6.6	19.267	6.6
2013	57.38	8.2	73.81	6.1	33.81	-0.3	40.99	-0.3	1,191.95	10.2	36.19	4.7	28.77	0.4	3.26	6.8	20.580	6.8
2014	59.04	2.9	76.57	3.7	36.35	7.5	44.05	7.5	1,312.81	10.1	39.68	9.7	32.09	11.5	3.49	7.0	22.025	7.0
2015	56.90	-3.6	75.63	-1.2	42.06	15.7	42.65	-3.2	1,347.05	2.6	47.25	19.1	32.28	0.6	3.61	3.2	22.739	3.2
2016	58.12	2.2	77.20	2.1	47.70	13.4	41.82	-1.9	1,355.58	0.6	55.31	17.1	35.00	8.4	3.66	1.4	23.068	1.4
2017	56.22	-3.3	73.94	-4.2	50.94	6.8	44.57	6.6	1,383.17	2.0	57.45	3.9	32.58	-6.9	3.65	-0.2	23.021	-0.2
2018	53.95	-4.0	71.01	-4.0	46.13	-9.4	40.43	-9.3	1,436.59	3.9	72.54	26.3	30.75	-5.6	3.80	4.1	23.957	4.1
2019 f	50.64	-6.1	69.65	-1.9	39.79	-13.7	35.02	-13.4	1,669.02	16.2	99.73	37.5	34.26	11.4	4.58	20.4	28.851	20.4
2020 f	49.22	-2.8	68.68	-1.4	37.19	-6.5	32.62	-6.9	1,728.41	3.6	100.46	0.7	35.61	3.9	4.84	5.9	30.541	5.9
2021 f	50.25	2.1	69.69	1.5	37.67	1.3	33.16	1.7	1,859.99	7.6	103.49	3.0	35.38	-0.6	4.91	1.5	30.985	1.5
2022 f	50.59	0.7	70.33	0.9	37.93	0.7	33.41	0.8	1,899.84	2.2	103.81	0.3	35.07	-0.9	4.95	0.8	31.232	0.8
2023 f	51.01	0.8	70.92	0.8	38.47	1.4	33.91	1.5	1,935.09	1.9	105.32	1.5	34.47	-1.7	5.01	1.1	31.571	1.1

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Table 70 - Taiwan investment

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	1.84	-0.3	2.46	-2.4	1.21	7.5	1.47	7.1	24.88	16.6	0.80	5.6	0.92	-7.2	0.11	9.5	0.687	9.5
2008	1.59	-13.6	2.22	-9.5	1.07	-11.3	1.30	-11.3	25.26	1.5	0.79	-1.9	0.73	-21.0	0.11	3.2	0.709	3.2
2009	1.30	-18.1	1.63	-26.6	0.69	-36.0	0.84	-35.6	22.38	-11.4	0.62	-20.9	0.65	-11.2	0.08	-30.5	0.493	-30.5
2010	1.53	17.5	1.85	13.3	0.97	42.0	1.18	41.1	29.29	30.8	0.87	40.5	0.77	19.7	0.08	0.0	0.493	0.0
2011	1.86	21.2	2.33	25.7	1.21	24.4	1.47	24.2	35.84	22.4	1.39	59.7	0.98	26.9	0.10	24.4	0.613	24.4
2012	1.79	-3.7	2.35	1.0	1.15	-5.5	1.39	-5.4	36.51	1.9	1.17	-16.2	0.97	-1.4	0.10	6.1	0.651	6.1
2013	1.93	7.6	2.48	5.6	1.14	-0.8	1.38	-0.8	40.04	9.7	1.22	4.1	0.97	-0.1	0.11	6.3	0.691	6.3
2014	1.94	0.9	2.52	1.7	1.20	5.4	1.45	5.4	43.24	8.0	1.31	7.5	1.06	9.3	0.12	4.9	0.725	4.9
2015	1.78	-8.3	2.37	-6.0	1.32	10.1	1.34	-7.9	42.21	-2.4	1.48	13.3	1.01	-4.3	0.11	-1.8	0.713	-1.8
2016	1.80	0.8	2.39	0.8	1.48	11.9	1.29	-3.2	41.94	-0.7	1.71	15.6	1.08	7.0	0.11	0.1	0.714	0.1
2017	1.85	2.7	2.43	1.7	1.67	13.4	1.46	13.2	45.43	8.3	1.89	10.3	1.07	-1.2	0.12	6.0	0.756	6.0
2018	1.79	-3.1	2.35	-3.1	1.53	-8.6	1.34	-8.4	47.63	4.8	2.40	27.4	1.02	-4.7	0.13	5.0	0.794	5.0
2019 f	1.64	-8.5	2.25	-4.3	1.29	-15.9	1.13	-15.5	53.97	13.3	3.22	34.1	1.11	8.7	0.15	17.5	0.933	17.5
2020 f	1.59	-2.8	2.22	-1.4	1.20	-6.5	1.05	-6.9	55.89	3.6	3.25	0.7	1.15	3.9	0.16	5.9	0.988	5.9
2021 f	1.62	2.1	2.25	1.5	1.22	1.3	1.07	1.7	60.12	7.6	3.35	3.0	1.14	-0.6	0.16	1.5	1.002	1.5
2022 f	1.64	0.7	2.27	0.9	1.23	0.7	1.08	0.8	61.43	2.2	3.36	0.3	1.13	-0.9	0.16	0.8	1.010	0.8
2023 f	1.65	0.8	2.29	0.9	1.24	1.4	1.10	1.5	62.57	1.9	3.41	1.5	1.11	-1.7	0.16	1.1	1.021	1.1

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.03

Source: Oxford Economics



**Table 71 - Thailand**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Baht	% change	Billion US\$	% change	2015=100	% change	Billion Baht 2015 prices	% change
<b>2007</b>	29.87	-33.0	0.87	-26.5	259.58	-4.2	160.49	8.6
<b>2008</b>	37.89	26.9	1.14	31.4	250.00	-3.7	166.00	3.4
<b>2009</b>	24.74	-34.7	0.72	-36.6	191.54	-23.4	143.93	-13.3
<b>2010</b>	39.79	60.8	1.26	74.0	75.86	-60.4	177.96	23.6
<b>2011</b>	53.16	33.6	1.74	38.8	81.78	7.8	168.69	-5.2
<b>2012</b>	94.11	77.0	3.03	73.7	88.43	8.1	204.68	21.3
<b>2013</b>	61.21	-35.0	1.99	-34.2	89.98	1.8	202.68	-1.0
<b>2014</b>	60.60	-1.0	1.87	-6.3	100.59	11.8	190.62	-6.0
<b>2015</b>	39.69	-34.5	1.16	-37.9	100.26	-0.3	196.14	2.9
<b>2016</b>	33.17	-16.4	0.94	-18.9	101.02	0.8	203.57	3.8
<b>2017</b>	30.95	-6.7	0.91	-3.0	102.25	1.2	208.21	2.3
<b>2018</b>	37.07	19.8	1.15	25.8	103.93	1.6	218.65	5.0
<b>2019</b> f	35.38	-4.5	1.14	-0.7	102.84	-1.1	206.39	-5.6
<b>2020</b> f	31.50	-11.0	1.01	-11.0	96.49	-6.2	194.81	-5.6
<b>2021</b> f	35.64	13.1	1.15	13.1	101.77	5.5	204.88	5.2
<b>2022</b> f	38.01	6.6	1.22	6.6	105.33	3.5	212.88	3.9
<b>2023</b> f	40.14	5.6	1.29	5.6	108.64	3.1	220.46	3.6

In the absence of reliable production data or input from a national machine tools association, imports have been used as a proxy for apparent consumption from 2008

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 72 - Thailand investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Baht 2015 prices	% change	Billion Baht 2015 prices	% change	Billion Baht 2015 prices	% change	Billion Baht 2015 prices	% change	Billion Baht 2015 prices	% change	Billion Baht 2015 prices	% change	Billion Baht 2015 prices	% change	Billion Baht 2015 prices	% change	Billion Baht 2015 prices	% change
2007	86.92	-5.9	85.58	-6.0	133.02	14.0	184.02	0.1	470.82	0.6	10.72	5.3	460.52	-5.0	0.68	-15.7	0.768	-15.7
2008	87.08	0.2	79.64	-6.9	146.34	10.0	224.86	22.2	494.89	5.1	9.44	-11.9	461.94	0.3	0.57	-15.9	0.646	-15.9
2009	71.52	-17.9	57.96	-27.2	100.80	-31.1	196.84	-12.5	406.42	-17.9	6.64	-29.7	454.42	-1.6	0.55	-3.9	0.621	-3.9
2010	26.24	-63.3	17.51	-69.8	41.38	-58.9	198.26	0.7	447.84	10.2	4.23	-36.2	105.12	-76.9	0.55	0.9	0.627	0.9
2011	24.16	-8.0	19.18	9.5	38.39	-7.2	219.12	10.5	469.19	4.8	4.17	-1.5	65.04	-38.1	0.82	48.6	0.931	48.6
2012	25.53	5.7	20.85	8.7	42.15	9.8	249.10	13.7	526.43	12.2	4.19	0.5	136.27	109.5	0.59	-27.9	0.671	-27.9
2013	30.14	18.0	23.55	12.9	53.13	26.1	200.79	-19.4	497.05	-5.6	4.39	4.8	95.89	-29.6	0.50	-15.1	0.570	-15.1
2014	37.38	24.0	24.30	3.2	59.79	12.5	218.72	8.9	582.34	17.2	4.95	12.7	189.38	97.5	0.55	8.7	0.618	8.5
2015	32.44	-13.2	24.87	2.4	60.63	1.4	204.72	-6.4	486.45	-16.5	4.99	0.9	190.91	0.8	0.55	-0.3	0.623	0.8
2016	34.84	7.4	24.07	-3.2	70.60	16.4	217.46	6.2	480.79	-1.2	4.79	-4.0	180.84	-5.3	0.58	6.3	0.648	4.0
2017	35.93	3.1	23.28	-3.3	63.41	-10.2	267.46	23.0	522.17	8.6	5.08	5.9	189.45	4.8	0.60	3.5	0.662	2.2
2018	36.43	1.4	23.56	1.2	63.44	0.0	265.86	-0.6	548.86	5.1	5.36	5.6	209.09	10.4	0.58	-2.8	0.647	-2.4
2019 f	37.12	1.9	22.33	-5.2	69.20	9.1	283.27	6.5	563.67	2.7	5.42	1.1	200.77	-4.0	0.56	-3.7	0.612	-5.3
2020 f	32.04	-13.7	20.65	-7.5	67.06	-3.1	277.99	-1.9	546.72	-3.0	5.28	-2.5	176.31	-12.2	0.54	-4.7	0.579	-5.4
2021 f	33.86	5.7	21.99	6.5	70.19	4.7	279.71	0.6	578.90	5.9	5.51	4.2	197.24	11.9	0.56	3.9	0.603	4.1
2022 f	35.21	4.0	22.81	3.7	71.88	2.4	289.47	3.5	609.25	5.2	5.76	4.6	202.59	2.7	0.58	3.6	0.625	3.6
2023 f	36.64	4.0	23.52	3.1	74.34	3.4	299.12	3.3	627.85	3.1	5.97	3.7	206.66	2.0	0.60	3.4	0.646	3.4

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 73 - Thailand investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	2.52	3.3	2.48	3.2	3.85	25.1	5.33	9.8	13.64	10.4	0.31	15.6	13.34	4.3	0.02	-7.5	0.022	-7.5
2008	2.61	3.8	2.39	-3.6	4.39	14.0	6.75	26.6	14.86	8.9	0.28	-8.7	13.87	3.9	0.02	-12.8	0.019	-12.8
2009	2.09	-20.2	1.69	-29.3	2.94	-33.1	5.74	-14.9	11.85	-20.2	0.19	-31.7	13.25	-4.4	0.02	-6.6	0.018	-6.6
2010	0.83	-60.3	0.55	-67.3	1.31	-55.6	6.26	9.0	14.13	19.2	0.13	-31.0	3.32	-75.0	0.02	9.2	0.020	9.2
2011	0.79	-4.3	0.63	13.8	1.26	-3.6	7.19	14.9	15.39	8.9	0.14	2.3	2.13	-35.7	0.03	54.4	0.031	54.4
2012	0.82	3.7	0.67	6.6	1.36	7.7	8.01	11.5	16.94	10.1	0.13	-1.4	4.38	105.5	0.02	-29.3	0.022	-29.3
2013	0.98	19.4	0.77	14.2	1.73	27.5	6.53	-18.5	16.18	-4.5	0.14	6.0	3.12	-28.8	0.02	-14.1	0.019	-14.1
2014	1.15	17.3	0.75	-2.4	1.84	6.5	6.73	3.0	17.93	10.8	0.15	6.6	5.83	86.8	0.02	2.8	0.019	2.6
2015	0.95	-17.7	0.73	-2.9	1.77	-3.8	5.98	-11.2	14.20	-20.8	0.15	-4.3	5.57	-4.4	0.02	-5.4	0.018	-4.4
2016	0.99	4.2	0.68	-6.1	2.00	13.0	6.16	3.1	13.62	-4.1	0.14	-6.9	5.12	-8.1	0.02	3.2	0.018	1.0
2017	1.06	7.2	0.69	0.6	1.87	-6.6	7.88	27.9	15.39	13.0	0.15	10.2	5.58	9.0	0.02	7.6	0.020	6.3
2018	1.13	6.5	0.73	6.3	1.96	5.1	8.23	4.4	16.99	10.4	0.17	10.9	6.47	15.9	0.02	2.1	0.020	2.5
2019 f	1.20	6.1	0.72	-1.4	2.23	13.5	9.12	10.9	18.15	6.9	0.17	5.2	6.47	-0.1	0.02	0.2	0.020	-1.5
2020 f	1.03	-13.7	0.67	-7.5	2.16	-3.1	8.95	-1.9	17.61	-3.0	0.17	-2.5	5.68	-12.2	0.02	-4.7	0.019	-5.4
2021 f	1.09	5.7	0.71	6.5	2.26	4.7	9.01	0.6	18.65	5.9	0.18	4.2	6.35	11.9	0.02	3.9	0.019	4.1
2022 f	1.13	4.0	0.73	3.7	2.32	2.4	9.32	3.5	19.62	5.2	0.19	4.6	6.53	2.7	0.02	3.6	0.020	3.6
2023 f	1.18	4.0	0.76	3.1	2.39	3.4	9.63	3.3	20.22	3.1	0.19	3.7	6.66	2.0	0.02	3.4	0.021	3.4

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.03

Source: Oxford Economics

**Table 74 - Turkey**

	Apparent Consumption*		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Lira	% change	Billion US\$	% change	2015=100	% change	Billion Lira 2015 prices	% change
<b>2007</b>	1.518	-0.5	1.164	9.4	52.66	15.9	13.556	10.3
<b>2008</b>	1.527	0.5	1.173	0.8	51.76	-1.7	13.415	-1.0
<b>2009</b>	0.995	-34.8	0.642	-45.3	35.24	-31.9	11.415	-14.9
<b>2010 *</b>	1.390	39.7	0.925	44.1	43.25	22.7	12.270	7.5
<b>2011</b>	2.293	64.9	1.369	48.0	64.09	48.2	16.071	31.0
<b>2012</b>	2.555	11.4	1.422	3.9	67.06	4.6	16.872	5.0
<b>2013</b>	2.606	2.0	1.369	-3.8	80.36	19.8	19.241	14.0
<b>2014</b>	3.116	19.6	1.423	4.0	88.89	10.6	20.780	8.0
<b>2015</b>	3.312	6.3	1.217	-14.5	100.00	12.5	22.263	7.1
<b>2016</b>	3.751	13.2	1.241	2.0	105.36	5.4	23.496	5.5
<b>2017</b>	4.282	14.2	1.174	-5.4	119.76	13.7	26.461	12.6
<b>2018</b>	5.226	22.0	1.083	-7.7	115.61	-3.5	25.714	-2.8
<b>2019 f</b>	4.501	-13.9	0.793	-26.8	99.63	-13.8	25.588	-0.5
<b>2020 f</b>	4.071	-9.6	0.717	-9.6	97.49	-2.1	25.037	-2.2
<b>2021 f</b>	4.459	9.5	0.785	9.5	106.03	8.8	26.821	7.1
<b>2022 f</b>	4.941	10.8	0.870	10.8	110.30	4.0	27.549	2.7
<b>2023 f</b>	5.645	14.3	0.994	14.3	116.59	5.7	28.702	4.2

**Source:** Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date  
Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 75 - Turkey investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Lira 2015 prices	% change	Billion Lira 2015 prices	% change	Billion Lira 2015 prices	% change	Billion Lira 2015 prices	% change	Billion Lira 2015 prices	% change	Billion Lira 2015 prices	% change	Billion Lira 2015 prices	% change	Billion Lira 2015 prices	% change	Billion Lira 2015 prices	% change
2007	4.676	14.5	4.224	14.5	1.270	3.1	1.915	12.0	3.476	-15.6	2.377	-1.0	6.025	7.2	2.112	51.9	1.177	51.9
2008	4.716	0.8	4.046	-4.2	1.249	-1.7	1.948	1.7	3.215	-7.5	2.274	-4.3	7.076	17.4	2.075	-1.8	1.157	-1.8
2009	3.091	-34.5	2.651	-34.5	1.068	-14.4	1.707	-12.4	2.667	-17.1	1.747	-23.2	4.704	-33.5	1.201	-42.1	0.669	-42.1
2010	4.398	42.3	3.142	18.5	1.557	45.8	2.487	45.7	3.191	19.7	1.874	7.3	6.922	47.1	0.942	-21.5	0.756	12.9
2011	5.847	32.9	4.564	45.2	2.769	77.8	3.904	57.0	4.473	40.2	2.241	19.6	9.949	43.7	1.796	90.6	0.856	13.3
2012	6.246	6.8	5.038	10.4	2.693	-2.7	3.935	0.8	4.899	9.5	2.598	15.9	10.215	2.7	1.467	-18.3	0.804	-6.1
2013	7.108	13.8	6.187	22.8	3.277	21.7	4.713	19.8	5.983	22.1	3.292	26.7	12.671	24.0	1.362	-7.2	0.772	-4.0
2014	7.329	3.1	6.679	8.0	3.672	12.1	5.445	15.5	7.398	23.6	3.940	19.7	13.450	6.1	1.929	41.6	0.763	-1.1
2015	7.570	3.3	7.361	10.2	4.027	9.7	6.073	11.5	7.965	7.7	4.476	13.6	16.037	19.2	2.694	39.7	0.896	17.4
2016	7.671	1.3	7.968	8.2	4.229	5.0	6.500	7.0	8.540	7.2	4.952	10.6	15.005	-6.4	2.622	-2.7	0.893	-0.3
2017	8.317	8.4	9.021	13.2	4.729	11.8	7.606	17.0	9.570	12.1	5.609	13.3	17.358	15.7	3.336	27.2	0.827	-7.4
2018	8.049	-3.2	8.324	-7.7	4.850	2.5	7.418	-2.5	9.042	-5.5	5.792	3.3	16.729	-3.6	3.819	14.5	0.896	8.3
2019 f	6.116	-24.0	7.025	-15.6	4.079	-15.9	5.925	-20.1	8.621	-4.7	5.599	-3.3	13.735	-17.9	3.941	3.2	0.985	9.9
2020 f	5.837	-4.6	6.833	-2.7	3.997	-2.0	5.808	-2.0	8.637	0.2	5.552	-0.8	12.405	-9.7	4.059	3.0	1.069	8.5
2021 f	6.367	9.1	7.400	8.3	4.334	8.4	6.340	9.2	9.389	8.7	5.979	7.7	14.333	15.5	4.373	7.7	1.111	4.0
2022 f	6.497	2.0	7.673	3.7	4.490	3.6	6.655	5.0	10.084	7.4	6.411	7.2	14.540	1.4	4.594	5.1	1.160	4.3
2023 f	6.685	2.9	8.045	4.8	4.667	4.0	7.017	5.4	10.927	8.4	6.928	8.1	16.379	12.7	4.839	5.3	1.213	4.6

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 76 - Turkey investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	3.585	25.8	3.079	18.6	0.974	13.3	1.468	23.0	2.664	-7.3	1.822	8.7	4.618	17.8	1.619	66.9	0.903	66.9
2008	3.625	1.1	3.003	-2.5	0.960	-1.4	1.497	2.0	2.471	-7.2	1.748	-4.1	5.439	17.8	1.595	-1.5	0.889	-1.5
2009	1.993	-45.0	1.899	-36.8	0.689	-28.2	1.100	-26.5	1.719	-30.4	1.126	-35.6	3.033	-44.2	0.774	-51.5	0.431	-51.5
2010	2.925	46.8	2.213	16.5	1.036	50.4	1.654	50.3	2.122	23.5	1.247	10.7	4.604	51.8	0.627	-19.0	0.502	16.5
2011	3.490	19.3	3.035	37.2	1.653	59.6	2.330	40.9	2.670	25.8	1.338	7.3	5.938	29.0	1.072	71.0	0.511	1.7
2012	3.476	-0.4	3.092	1.9	1.499	-9.3	2.190	-6.0	2.727	2.1	1.446	8.1	5.685	-4.3	0.817	-23.8	0.447	-12.5
2013	3.733	7.4	3.622	17.2	1.721	14.8	2.475	13.0	3.142	15.2	1.729	19.6	6.654	17.0	0.715	-12.4	0.405	-9.4
2014	3.347	-10.3	3.558	-1.8	1.677	-2.5	2.487	0.5	3.379	7.5	1.800	4.1	6.143	-7.7	0.881	23.1	0.348	-14.0
2015	2.782	-16.9	3.485	-2.1	1.480	-11.8	2.232	-10.2	2.927	-13.4	1.645	-8.6	5.894	-4.0	0.990	12.4	0.329	-5.5
2016	2.539	-8.8	3.336	-4.3	1.400	-5.4	2.151	-3.6	2.826	-3.5	1.639	-0.4	4.966	-15.7	0.868	-12.4	0.296	-10.3
2017	2.280	-10.2	3.196	-4.2	1.296	-7.4	2.085	-3.1	2.623	-7.2	1.537	-6.2	4.758	-4.2	0.914	5.4	0.227	-23.3
2018	1.669	-26.8	2.499	-21.8	1.005	-22.4	1.538	-26.2	1.875	-28.5	1.201	-21.9	3.468	-27.1	0.792	-13.4	0.186	-18.1
2019 f	1.077	-35.4	1.737	-30.5	0.719	-28.5	1.044	-32.1	1.519	-19.0	0.986	-17.9	2.419	-30.2	0.694	-12.3	0.174	-6.6
2020 f	1.028	-4.6	1.422	-18.1	0.704	-2.0	1.023	-2.0	1.521	0.2	0.978	-0.8	2.185	-9.7	0.715	3.0	0.188	8.5
2021 f	1.121	9.1	1.361	-4.3	0.763	8.4	1.117	9.2	1.654	8.7	1.053	7.7	2.525	15.5	0.770	7.7	0.196	4.0
2022 f	1.144	2.0	1.352	-0.7	0.791	3.6	1.172	5.0	1.776	7.4	1.129	7.2	2.561	1.4	0.809	5.1	0.204	4.3
2023 f	1.177	2.9	1.417	4.8	0.822	4.0	1.236	5.4	1.925	8.4	1.220	8.1	2.885	12.7	0.852	5.3	0.214	4.6

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.18

Source: Oxford Economics

**Table 77 - United Kingdom**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion £	% change	Billion US\$	% change	2015=100	% change	Billion £ 2015 prices	% change
<b>2007</b>	0.55	23.1	1.09	33.7	78.11	0.8	13.16	2.5
<b>2008</b>	0.39	-28.1	0.73	-33.4	85.59	9.6	12.63	-4.0
<b>2009</b>	0.24	-38.0	0.38	-47.7	67.11	-21.6	10.32	-18.3
<b>2010</b>	0.28	15.7	0.44	14.3	66.30	-1.2	11.25	9.0
<b>2011</b>	0.47	65.9	0.75	72.0	62.18	-6.2	11.80	4.9
<b>2012</b>	0.66	42.2	1.05	40.6	84.44	35.8	12.11	2.6
<b>2013</b>	0.62	-6.9	0.97	-8.2	76.59	-9.3	11.70	-3.3
<b>2014</b>	0.65	5.7	1.08	11.4	87.03	13.6	12.13	3.6
<b>2015</b>	0.56	-14.6	0.85	-20.8	100.00	14.9	12.19	0.5
<b>2016</b>	0.56	0.9	0.76	-10.6	96.82	-3.2	12.29	0.8
<b>2017</b>	0.58	3.5	0.75	-1.6	106.45	9.9	12.48	1.5
<b>2018</b>	0.65	11.0	0.86	15.0	104.37	-2.0	12.45	-0.2
<b>2019</b> f	0.61	-5.2	0.78	-9.3	102.81	-1.5	12.30	-1.2
<b>2020</b> f	0.47	-22.6	0.61	-22.6	95.18	-7.4	11.54	-6.1
<b>2021</b> f	0.59	23.9	0.75	23.9	100.00	5.1	11.99	3.9
<b>2022</b> f	0.60	1.7	0.76	1.7	101.98	2.0	12.11	1.0
<b>2023</b> f	0.61	1.5	0.77	1.5	102.92	0.9	11.89	-1.8

**Source:** Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 78 - United Kingdom investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion £ 2015 prices	% change	Billion £ 2015 prices	% change	Billion £ 2015 prices	% change	Billion £ 2015 prices	% change	Billion £ 2015 prices	% change	Billion £ 2015 prices	% change	Billion £ 2015 prices	% change	Billion £ 2015 prices	% change	Billion £ 2015 prices	% change
2007	1.00	-0.3	1.32	-0.3	1.03	2.3	0.56	2.3	1.56	2.3	0.42	2.3	4.00	2.3	1.43	2.3	0.276	2.3
2008	0.96	-3.5	1.52	15.1	1.14	10.2	0.61	8.9	1.44	-7.6	0.43	2.2	4.14	3.6	1.54	7.6	0.339	22.8
2009	0.47	-50.8	1.12	-26.3	1.14	0.7	0.50	-17.7	0.91	-36.8	0.37	-14.1	3.47	-16.3	1.42	-8.0	0.416	22.8
2010	0.43	-8.4	1.03	-8.1	1.09	-5.1	0.56	12.5	1.25	36.6	0.54	44.8	2.91	-16.2	1.65	16.6	0.308	-26.0
2011	0.50	16.0	1.06	3.5	0.64	-41.5	0.53	-6.3	0.96	-22.8	0.45	-16.6	3.86	32.8	1.26	-23.5	0.383	24.2
2012	0.76	49.8	1.49	40.2	1.63	156.7	0.43	-18.1	0.89	-7.4	0.74	65.6	3.85	-0.2	1.60	26.6	0.274	-28.5
2013	0.59	-21.6	1.36	-8.7	0.95	-41.8	0.51	19.0	0.95	6.8	0.53	-28.9	5.25	36.3	1.56	-2.3	0.358	31.0
2014	0.41	-30.9	1.62	19.2	0.99	4.7	0.68	33.1	0.95	-0.2	0.68	27.9	6.03	14.8	1.44	-7.6	0.391	9.2
2015	0.34	-18.2	1.85	14.3	1.25	26.2	0.73	6.6	1.20	26.5	0.72	6.8	7.27	20.6	1.68	16.4	0.585	49.7
2016	0.38	14.0	1.66	-10.4	1.21	-3.3	0.67	-8.8	1.37	13.8	0.66	-8.5	5.40	-25.7	2.77	64.5	0.940	60.6
2017	0.71	84.9	1.93	16.1	1.41	15.9	0.55	-18.0	1.14	-16.7	0.75	14.1	7.75	43.7	2.19	-20.9	0.882	-6.1
2018	0.82	16.2	1.92	-0.5	1.38	-1.7	0.47	-13.3	1.05	-7.4	0.69	-8.0	8.35	7.7	1.91	-12.8	0.780	-11.6
2019 f	0.83	0.5	1.94	0.9	1.32	-4.6	0.45	-4.6	1.01	-4.2	0.67	-3.8	7.93	-5.0	1.83	-3.9	0.755	-3.2
2020 f	0.77	-7.0	1.86	-4.1	1.18	-10.7	0.39	-13.2	0.93	-7.6	0.63	-6.0	6.39	-19.4	1.73	-5.7	0.730	-3.3
2021 f	0.80	4.3	1.92	3.1	1.21	2.9	0.40	2.8	0.97	3.5	0.65	2.8	7.84	22.7	1.81	4.8	0.765	4.7
2022 f	0.81	0.9	1.95	1.8	1.25	3.1	0.42	5.5	1.00	3.8	0.67	4.0	7.68	-2.0	1.87	3.0	0.791	3.4
2023 f	0.81	-0.3	1.96	0.5	1.25	0.5	0.43	1.3	1.02	1.6	0.69	2.5	7.80	1.5	1.92	2.7	0.815	3.0

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 79 - United Kingdom investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	2.00	8.3	2.63	8.3	2.06	11.1	1.12	11.1	3.12	11.1	0.85	11.1	8.00	11.1	2.86	11.1	0.553	11.1
2008	1.79	-10.7	2.81	6.6	2.11	2.0	1.13	0.8	2.67	-14.5	0.80	-5.4	7.67	-4.1	2.85	-0.4	0.628	13.6
2009	0.74	-58.4	1.75	-37.7	1.79	-15.0	0.78	-30.5	1.43	-46.6	0.58	-27.4	5.42	-29.3	2.22	-22.3	0.651	3.7
2010	0.67	-9.5	1.59	-9.3	1.68	-6.2	0.87	11.1	1.93	35.0	0.83	43.1	4.49	-17.2	2.55	15.2	0.476	-26.9
2011	0.81	20.3	1.70	7.3	1.02	-39.3	0.85	-2.8	1.54	-20.0	0.72	-13.5	6.19	37.7	2.03	-20.7	0.613	28.7
2012	1.20	48.2	2.36	38.7	2.59	153.9	0.68	-19.0	1.41	-8.5	1.18	63.7	6.10	-1.4	2.54	25.2	0.434	-29.3
2013	0.93	-22.6	2.13	-9.9	1.49	-42.6	0.80	17.4	1.49	5.4	0.83	-29.8	8.21	34.5	2.45	-3.6	0.560	29.2
2014	0.68	-27.2	2.67	25.6	1.64	10.3	1.13	40.2	1.56	5.1	1.12	34.7	9.93	21.0	2.38	-2.7	0.644	15.0
2015	0.51	-24.1	2.83	6.0	1.92	17.1	1.12	-1.1	1.83	17.3	1.11	-1.0	11.11	11.8	2.57	8.0	0.895	38.8
2016	0.52	1.1	2.25	-20.5	1.64	-14.3	0.90	-19.1	1.85	0.9	0.90	-18.9	7.31	-34.2	3.75	45.8	1.273	42.3
2017	0.91	75.9	2.49	10.5	1.81	10.2	0.70	-22.0	1.47	-20.7	0.97	8.6	9.99	36.7	2.82	-24.7	1.137	-10.7
2018	1.10	20.5	2.56	3.1	1.85	1.9	0.63	-10.2	1.41	-4.0	0.93	-4.6	11.15	11.6	2.55	-9.6	1.042	-8.4
2019 f	1.05	-3.9	2.47	-3.5	1.68	-8.8	0.58	-8.8	1.29	-8.4	0.85	-8.0	10.13	-9.2	2.34	-8.2	0.965	-7.4
2020 f	0.98	-7.0	2.37	-4.1	1.50	-10.7	0.50	-13.2	1.19	-7.6	0.80	-6.0	8.16	-19.4	2.21	-5.7	0.933	-3.3
2021 f	1.02	4.3	2.45	3.1	1.55	2.9	0.51	2.8	1.23	3.5	0.83	2.8	10.01	22.7	2.32	4.8	0.977	4.7
2022 f	1.03	0.9	2.49	1.8	1.59	3.1	0.54	5.5	1.28	3.8	0.86	4.0	9.81	-2.0	2.39	3.0	1.010	3.4
2023 f	1.03	-0.3	2.50	0.5	1.60	0.5	0.55	1.3	1.30	1.6	0.88	2.5	9.96	1.5	2.45	2.7	1.041	3.0

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.78

Source: Oxford Economics

**Table 80 - United States**

	Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion US\$	% change	2015=100 US\$	% change	Billion US\$ 2015 prices	% change
2007	7.52	9.9	95.21	13.6	134.53	5.3
2008	8.16	8.5	97.54	2.4	132.45	-1.5
2009	4.46	-45.3	77.68	-20.4	108.13	-18.4
2010	4.31	-3.4	79.63	2.5	117.86	9.0
2011	7.32	69.8	97.42	22.3	123.79	5.0
2012	9.38	28.1	106.30	9.1	125.92	1.7
2013	8.43	-10.1	108.00	1.6	130.28	3.5
2014	8.02	-4.9	104.32	-3.4	134.53	3.3
2015	8.40	4.7	100.00	-4.1	132.49	-1.5
2016	7.51	-10.6	102.39	2.4	128.02	-3.4
2017	8.48	12.9	104.65	2.2	131.26	2.5
2018	9.64	13.7	108.25	3.4	138.54	5.5
2019 f	9.72	0.9	108.19	0.0	140.20	1.2
2020 f	5.70	-41.3	105.85	-2.2	134.83	-3.8
2021 f	8.19	43.6	110.68	4.6	144.63	7.3
2022 f	8.66	5.8	111.95	1.1	143.39	-0.9
2023 f	8.94	3.3	113.62	1.5	145.57	1.5

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019. Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key

Note the US consumption data has been revised since our Autumn 2011 report as the previous shipments series used in the calculation is no longer published

**Table 81 - United States investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	12.29	31.7	17.57	19.6	11.86	4.6	10.56	6.6	40.89	12.6	63.40	12.2	36.79	-5.2	13.52	15.9	16.031	17.6
2008	14.84	20.8	17.60	0.2	13.02	9.7	11.23	6.4	50.84	24.3	72.21	13.9	32.80	-10.9	12.80	-5.3	17.404	8.6
2009	12.00	-19.1	12.68	-28.0	12.14	-6.7	9.82	-12.6	39.48	-22.3	58.07	-19.6	26.72	-18.5	12.60	-1.6	15.802	-9.2
2010	11.11	-7.4	13.15	3.7	12.18	0.3	10.44	6.2	43.49	10.2	59.90	3.2	31.95	19.6	10.90	-13.5	12.530	-20.7
2011	12.42	11.7	16.84	28.1	15.23	25.1	13.49	29.3	51.39	18.1	66.52	11.1	35.10	9.9	10.77	-1.2	12.489	-0.3
2012	13.11	5.6	19.80	17.6	14.56	-4.4	13.01	-3.6	51.26	-0.2	63.69	-4.3	44.10	25.7	10.23	-5.0	11.528	-7.7
2013	12.54	-4.3	19.46	-1.7	15.31	5.1	13.33	2.5	55.59	8.4	60.51	-5.0	46.78	6.1	12.22	19.4	13.979	21.3
2014	10.88	-13.3	18.74	-3.7	14.23	-7.0	12.48	-6.4	58.60	5.4	56.90	-6.0	48.66	4.0	12.60	3.1	13.539	-3.2
2015	10.01	-8.0	17.69	-5.6	14.07	-1.2	11.22	-10.1	59.58	1.7	54.93	-3.5	47.10	-3.2	13.75	9.2	14.757	9.0
2016	10.92	9.2	18.71	5.8	14.05	-0.1	10.45	-6.8	59.28	-0.5	52.19	-5.0	43.86	-6.9	15.26	10.9	16.433	11.4
2017	10.71	-1.9	19.32	3.3	13.65	-2.9	10.94	4.7	60.22	1.6	54.34	4.1	46.26	5.5	14.64	-4.1	16.225	-1.3
2018	11.05	3.1	19.96	3.3	14.06	3.0	11.29	3.2	64.28	6.8	56.93	4.8	47.71	3.1	15.20	3.9	16.818	3.7
2019 f	10.74	-2.8	20.06	0.5	13.72	-2.4	11.03	-2.3	68.30	6.2	60.04	5.5	46.23	-3.1	15.54	2.2	16.809	-0.1
2020 f	10.48	-2.4	19.82	-1.2	13.45	-1.9	10.68	-3.2	70.66	3.5	61.25	2.0	43.03	-6.9	14.40	-7.3	16.470	-2.0
2021 f	11.04	5.4	20.41	3.0	13.90	3.3	11.07	3.7	72.45	2.5	63.29	3.3	48.72	13.2	16.07	11.6	17.156	4.2
2022 f	11.09	0.4	20.47	0.3	14.16	1.8	11.29	2.0	74.17	2.4	65.66	3.8	49.48	1.6	16.59	3.2	17.434	1.6
2023 f	11.25	1.4	20.64	0.8	14.46	2.2	11.56	2.4	75.92	2.4	68.06	3.7	50.05	1.1	17.08	3.0	17.773	1.9

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms



**Table 82 - Vietnam**

	Apparent Consumption		Apparent Consumption		Investment in machine tool purchasing industries		Output of machine tool purchasing industries	
	Billion Dong	% change	Billion US\$	% change	2015=100	% change	Billion Dong 2015 prices	% change
<b>2007</b>	-	-	-	-	108.69	17.7	11,951.75	19.1
<b>2008</b>	11,473.74	-	0.70	-	84.79	-22.0	13,422.80	12.3
<b>2009</b>	7,496.67	-34.7	0.42	-39.7	80.53	-5.0	13,717.87	2.2
<b>2010</b>	8,718.06	16.3	0.46	8.2	84.75	5.2	14,853.00	8.3
<b>2011</b>	12,859.35	47.5	0.62	36.7	70.51	-16.8	16,581.78	11.6
<b>2012</b>	12,084.57	-6.0	0.58	-7.0	70.89	0.5	18,379.67	10.8
<b>2013</b>	11,943.68	-1.2	0.57	-1.9	76.03	7.3	20,376.19	10.9
<b>2014</b>	24,471.01	104.9	1.15	103.2	86.87	14.3	22,660.93	11.2
<b>2015</b>	31,907.39	30.4	1.46	26.1	100.00	15.1	24,159.88	6.6
<b>2016</b>	19,981.05	-37.4	0.89	-38.6	93.09	-6.9	25,643.51	6.1
<b>2017</b>	25,048.91	25.4	1.10	23.4	104.57	12.3	30,418.72	18.6
<b>2018</b>	26,710.35	6.6	1.16	5.2	117.32	12.2	34,503.08	13.4
<b>2019 f</b>	28,825.89	7.9	1.24	6.9	127.98	9.1	38,069.23	10.3
<b>2020 f</b>	26,515.04	-8.0	1.14	-8.0	136.41	6.6	39,501.09	3.8
<b>2021 f</b>	29,949.65	13.0	1.29	13.0	150.67	10.5	46,878.02	18.7
<b>2022 f</b>	33,332.70	11.3	1.44	11.3	161.67	7.3	50,202.99	7.1
<b>2023 f</b>	37,072.36	11.2	1.60	11.2	171.76	6.2	53,896.43	7.4

Source: Oxford Economics

MT growth rates in local currency are in current prices. MT growth rates in US\$ are calculated using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

Weights have been calculated using input from machine tool associations

Output is value added at 2015 prices

**Table 83 - Vietnam investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change	Billion Dong 2015 prices	% change
2007	8,656.02	18.3	7,823.50	37.3	1,651.04	46.7	670.85	10.5	12,680.03	42.6	1,013.30	68.7	2,381.04	-0.4	0.64	-37.6	6871.056	36.2
2008	7,937.49	-8.3	7,149.64	-8.6	1,545.78	-6.4	465.33	-30.6	10,912.88	-13.9	1,802.88	77.9	2,580.60	8.4	0.26	-59.0	6153.732	-10.4
2009	8,793.91	10.8	8,126.82	13.7	1,731.72	12.0	382.36	-17.8	11,654.92	6.8	2,222.47	23.3	2,851.66	10.5	0.13	-51.2	6551.789	6.5
2010	10,883.89	23.8	10,215.41	25.7	2,092.37	20.8	336.77	-11.9	13,284.73	14.0	3,112.00	40.0	3,208.54	12.5	0.07	-48.3	7401.381	13.0
2011	9,274.13	-14.8	9,060.75	-11.3	1,959.33	-6.4	227.83	-32.3	17,255.68	29.9	5,436.16	74.7	2,833.83	-11.7	0.03	-51.2	7887.330	6.6
2012	10,042.63	8.3	10,201.92	12.6	2,248.29	14.7	187.72	-17.6	22,755.08	31.9	5,819.92	7.1	2,981.72	5.2	0.01	-56.7	7452.555	-5.5
2013	10,420.96	3.8	12,267.29	20.2	2,626.21	16.8	156.99	-16.4	31,730.98	39.4	4,899.05	-15.8	3,520.04	18.1	0.01	-52.3	7756.388	4.1
2014	12,666.05	21.5	15,371.42	25.3	3,007.72	14.5	128.54	-18.1	37,112.00	17.0	6,385.13	30.3	4,792.27	36.1	0.00	-48.7	8681.124	11.9
2015	15,853.52	25.2	17,677.88	15.0	3,725.26	23.9	113.52	-11.7	47,050.76	26.8	8,693.47	36.2	6,795.54	41.8	0.00	-46.7	10100.030	16.3
2016	15,386.25	-2.9	15,078.83	-14.7	3,245.05	-12.9	84.39	-25.7	87,857.38	86.7	19,162.06	120.4	6,250.96	-8.0	0.00	-59.0	9038.110	-10.5
2017	23,126.91	50.3	18,083.69	19.9	3,677.12	13.3	80.94	-4.1	78,929.93	-10.2	16,608.51	-13.3	6,975.80	11.6	0.00	-45.4	10779.680	19.3
2018	29,071.55	25.7	20,552.00	13.6	3,911.98	6.4	86.11	6.4	88,269.16	11.8	18,732.31	12.8	8,204.85	17.6	0.00	5.3	11352.050	5.3
2019 f	37,666.97	29.6	22,606.71	10.0	4,354.60	11.3	95.85	11.3	94,383.70	6.9	19,893.95	6.2	8,865.42	8.1	0.00	-4.8	10807.020	-4.8
2020 f	43,108.70	14.4	24,900.29	10.1	4,589.94	5.4	98.74	3.0	101,567.70	7.6	21,071.15	5.9	8,447.67	-4.7	0.00	-1.9	10598.490	-1.9
2021 f	47,260.22	9.6	27,847.43	11.8	5,030.06	9.6	107.47	8.8	109,764.40	8.1	22,827.77	8.3	9,301.37	10.1	0.00	7.3	11374.060	7.3
2022 f	50,835.30	7.6	29,970.68	7.6	5,430.19	8.0	115.34	7.3	118,291.30	7.8	24,805.32	8.7	9,796.55	5.3	0.00	4.6	11900.430	4.6
2023 f	53,892.94	6.0	31,873.80	6.3	5,781.09	6.5	122.17	5.9	128,061.10	8.3	26,694.96	7.6	10,269.45	4.8	0.00	4.6	12452.970	4.6

Source: Oxford Economics

Investment in machine tool purchasing industries is calculated as an index of an investment figure which is a weighted sum of investment in the nine key sectors in local currency terms

**Table 84 - Vietnam investment**

	Basic metals		Fabricated metal products		General purpose machinery		Special purpose machinery & domestic appliances		Electrical engineering		Precision instruments		Motor vehicles and parts		Aerospace		Other transport equipment	
	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change	Billion US\$ 2015 prices	% change
2007	0.54	17.6	0.49	36.5	0.10	45.8	0.04	9.8	0.79	41.8	0.06	67.7	0.15	-1.0	0.00	-38.0	0.427	35.3
2008	0.48	-10.3	0.43	-10.6	0.09	-8.4	0.03	-32.2	0.66	-15.8	0.11	74.0	0.16	6.0	0.00	-59.9	0.374	-12.4
2009	0.49	2.3	0.46	5.0	0.10	3.5	0.02	-24.1	0.65	-1.4	0.12	13.9	0.16	2.1	0.00	-55.0	0.368	-1.7
2010	0.57	15.2	0.53	17.0	0.11	12.4	0.02	-18.1	0.69	6.1	0.16	30.3	0.17	4.7	0.00	-51.9	0.387	5.1
2011	0.45	-21.1	0.44	-17.8	0.09	-13.2	0.01	-37.3	0.84	20.3	0.26	61.8	0.14	-18.2	0.00	-54.8	0.382	-1.3
2012	0.48	7.2	0.49	11.5	0.11	13.6	0.01	-18.4	1.09	30.5	0.28	6.0	0.14	4.2	0.00	-57.2	0.357	-6.5
2013	0.50	3.0	0.58	19.3	0.12	15.9	0.01	-17.0	1.51	38.4	0.23	-16.5	0.17	17.2	0.00	-52.7	0.369	3.3
2014	0.60	20.6	0.73	24.3	0.14	13.6	0.01	-18.8	1.75	16.0	0.30	29.3	0.23	35.0	0.00	-49.2	0.410	11.0
2015	0.72	21.1	0.81	11.2	0.17	19.8	0.01	-14.6	2.15	22.6	0.40	31.7	0.31	37.1	0.00	-48.5	0.461	12.5
2016	0.69	-4.9	0.67	-16.4	0.15	-14.6	0.00	-27.1	3.93	83.0	0.86	116.0	0.28	-9.8	0.00	-59.8	0.404	-12.3
2017	1.02	48.0	0.80	18.1	0.16	11.6	0.00	-5.6	3.48	-11.5	0.73	-14.7	0.31	9.9	0.00	-46.2	0.475	17.4
2018	1.26	24.0	0.89	12.1	0.17	5.0	0.00	5.0	3.84	10.3	0.81	11.3	0.36	16.0	0.00	3.9	0.493	3.9
2019 f	1.62	28.4	0.97	9.0	0.19	10.3	0.00	10.3	4.06	6.0	0.86	5.2	0.38	7.1	0.00	-5.7	0.465	-5.7
2020 f	1.86	14.4	1.07	10.1	0.20	5.4	0.00	3.0	4.37	7.6	0.91	5.9	0.36	-4.7	0.00	-1.9	0.456	-1.9
2021 f	2.03	9.6	1.20	11.8	0.22	9.6	0.00	8.8	4.73	8.1	0.98	8.3	0.40	10.1	0.00	7.3	0.490	7.3
2022 f	2.19	7.6	1.29	7.6	0.23	8.0	0.00	7.3	5.09	7.8	1.07	8.7	0.42	5.3	0.00	4.6	0.512	4.6
2023 f	2.32	6.0	1.37	6.3	0.25	6.5	0.01	5.9	5.51	8.3	1.15	7.6	0.44	4.8	0.00	4.6	0.536	4.6

The figures are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date. 2019 exchange rate per US\$ = 0.00

Source: Oxford Economics

**Table 85 - Aerospace output**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	6.4	5.5	7.6	-2.0	9.7	5.5	5.4
Indonesia	6.1	1.9	5.8	-2.0	10.8	5.9	5.4
India	10.5	21.0	-6.0	4.2	5.4	6.6	6.3
Japan	2.6	-5.5	4.4	6.5	0.0	2.2	2.4
Malaysia	3.2	3.8	4.8	2.5	4.3	3.8	3.3
S. Korea	-26.1	-7.8	18.8	2.7	4.2	3.6	3.1
Taiwan	6.7	0.9	6.3	4.0	1.9	3.9	2.7
Thailand	4.0	-0.2	-3.5	-4.9	4.0	3.7	3.6
Vietnam	26.3	5.6	-3.8	-6.1	15.1	4.3	5.4
<b>Asia</b>	<b>6.6</b>	<b>22.7</b>	<b>2.3</b>	<b>0.1</b>	<b>5.7</b>	<b>5.2</b>	<b>5.2</b>
Brazil	-9.7	-1.5	-9.1	-0.9	-2.6	3.1	3.2
Canada	-1.9	5.1	6.7	4.3	3.0	1.8	0.9
Mexico	-1.1	20.5	20.4	7.7	2.8	2.0	2.1
US	0.9	1.3	2.4	-6.3	10.5	0.6	2.7
<b>Americas</b>	<b>-0.2</b>	<b>1.7</b>	<b>3.3</b>	<b>-6.4</b>	<b>11.1</b>	<b>1.0</b>	<b>2.8</b>
Austria	6.6	12.2	6.7	2.0	5.3	2.4	2.1
Czech Republic	-6.2	8.9	-0.5	-1.3	2.7	2.8	2.7
France	3.3	4.3	1.2	-0.7	2.6	2.1	2.2
Germany	2.6	8.9	7.5	0.2	5.8	2.2	2.1
Hungary	19.4	27.9	18.9	4.6	5.2	4.7	3.2
Italy	2.9	5.9	4.9	-1.3	4.4	2.6	2.5
Poland	3.4	12.6	22.6	6.8	6.5	5.1	4.3
Russia	3.7	-2.9	-26.4	-5.8	3.2	4.3	3.9
Slovakia	-1.4	32.9	1.4	3.0	4.0	3.9	2.4
Spain	3.1	14.4	-3.2	-2.3	4.5	3.2	2.6
Switzerland	1.9	2.6	2.2	-2.0	5.7	3.0	2.1
Turkey	18.8	19.2	26.1	5.2	4.9	4.0	3.6
UK	6.3	-0.8	-1.8	-1.8	3.5	2.3	0.1
<b>Europe</b>	<b>3.8</b>	<b>1.8</b>	<b>-3.6</b>	<b>-2.4</b>	<b>4.2</b>	<b>2.7</b>	<b>2.2</b>
<b>World</b>	<b>1.5</b>	<b>3.6</b>	<b>1.2</b>	<b>-4.6</b>	<b>8.5</b>	<b>1.9</b>	<b>2.9</b>

All growth rates are calculated based on a 2015 constant dollar exchange rate basis with regional aggregates calculated as the sum of each country in constant dollar terms.

**Table 86 - Basic metals output**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	0.7	8.0	9.7	-2.3	1.4	2.2	2.1
Indonesia	7.0	15.4	-2.6	3.3	6.1	4.6	5.7
India	8.0	8.4	10.0	6.6	5.8	7.0	7.9
Japan	3.3	1.6	-5.2	-7.1	-0.4	0.7	0.9
Malaysia	5.2	4.1	4.1	1.4	4.5	4.0	3.4
S. Korea	2.6	-1.6	-0.9	-2.3	1.8	1.9	2.9
Taiwan	3.9	1.4	-8.3	-4.6	2.6	3.8	2.4
Thailand	5.1	0.7	-11.4	-6.4	3.0	3.3	3.3
Vietnam	59.2	26.0	31.0	9.6	17.6	7.2	6.8
<b>Asia</b>	<b>2.2</b>	<b>6.6</b>	<b>7.0</b>	<b>-1.6</b>	<b>2.0</b>	<b>2.8</b>	<b>3.0</b>
Brazil	2.6	3.7	-2.3	-6.8	1.7	5.3	4.6
Canada	3.0	3.1	-7.0	-5.0	5.4	2.1	1.8
Mexico	1.1	-1.9	-0.3	-1.0	3.4	-1.1	0.0
US	1.7	5.2	-0.3	-4.1	8.1	-1.4	1.7
<b>Americas</b>	<b>1.8</b>	<b>4.0</b>	<b>-1.1</b>	<b>-4.1</b>	<b>6.7</b>	<b>-0.4</b>	<b>1.8</b>
Austria	7.0	2.4	-4.8	-6.5	6.2	1.8	1.4
Czech Republic	2.9	1.0	-5.1	-5.0	1.9	1.6	1.2
France	-1.4	-2.5	-4.9	-6.2	3.2	1.3	0.4
Germany	3.2	0.3	-5.3	-7.7	6.3	-0.2	-0.3
Hungary	12.0	0.7	-0.7	-6.1	6.6	2.4	2.3
Italy	3.4	-0.4	-2.1	-8.3	11.4	0.8	0.7
Poland	6.9	2.7	-1.6	-2.1	4.7	1.9	2.0
Russia	2.9	-1.8	4.9	-11.3	3.3	3.5	2.7
Slovakia	6.1	12.6	-13.3	-3.6	5.4	-0.5	0.1
Spain	3.9	-0.4	-4.8	-4.1	3.2	1.8	0.1
Switzerland	-1.8	2.2	-0.8	-4.2	4.6	0.9	-1.2
Turkey	7.7	0.2	-9.7	-3.5	7.0	1.2	1.4
UK	6.3	-3.7	-4.6	-8.9	3.0	0.2	-2.9
<b>Europe</b>	<b>4.0</b>	<b>-0.1</b>	<b>-4.2</b>	<b>-6.9</b>	<b>5.8</b>	<b>1.0</b>	<b>0.5</b>
<b>World</b>	<b>2.4</b>	<b>5.4</b>	<b>4.5</b>	<b>-2.5</b>	<b>3.0</b>	<b>2.2</b>	<b>2.5</b>

All growth rates are calculated based on a 2015 constant dollar exchange rate basis with regional aggregates calculated as the sum of each country in constant dollar terms.

**Table 87 - Electrical engineering output**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	12.1	12.0	9.8	-5.3	10.1	6.0	6.3
Indonesia	-0.5	-18.9	-2.5	-4.9	12.1	7.9	6.3
India	-1.4	9.8	-1.4	-2.7	5.5	7.4	7.5
Japan	5.6	2.0	-5.8	-0.5	0.4	2.9	3.0
Malaysia	8.1	6.4	3.3	-2.4	10.8	7.0	5.8
S. Korea	6.9	14.9	5.9	-0.2	5.8	3.2	3.5
Taiwan	7.8	5.6	5.7	1.5	7.7	5.2	3.4
Thailand	3.0	2.0	-7.2	-4.6	4.1	4.2	3.6
Vietnam	-4.9	12.1	8.1	3.1	15.9	7.4	9.1
<b>Asia</b>	<b>8.9</b>	<b>8.8</b>	<b>5.7</b>	<b>-3.3</b>	<b>8.0</b>	<b>5.2</b>	<b>5.3</b>
Brazil	8.5	2.5	-3.8	-2.1	0.3	5.9	4.1
Canada	2.6	6.3	-3.6	-6.8	2.1	1.5	0.9
Mexico	5.9	2.1	3.7	-2.5	1.0	0.6	0.7
US	2.3	6.1	4.5	0.5	5.2	0.2	2.4
<b>Americas</b>	<b>3.1</b>	<b>5.3</b>	<b>3.7</b>	<b>-0.3</b>	<b>4.3</b>	<b>0.6</b>	<b>2.2</b>
Austria	8.5	6.7	-0.9	-3.9	5.1	2.5	2.4
Czech Republic	12.3	4.3	6.0	0.1	4.1	3.3	2.8
France	-0.5	-0.9	2.8	-5.1	1.0	0.8	1.1
Germany	5.7	2.1	-4.8	-5.0	5.1	0.6	1.0
Hungary	6.5	4.6	9.5	3.7	3.1	3.0	2.5
Italy	0.3	1.9	-0.5	-7.4	6.5	1.7	1.9
Poland	-0.3	8.1	12.6	0.9	5.9	4.6	4.4
Russia	2.2	0.7	2.7	6.3	0.4	0.8	0.5
Slovakia	-3.8	7.0	10.9	-4.6	3.9	4.2	4.6
Spain	5.6	7.5	3.7	0.4	4.4	3.2	2.6
Switzerland	-8.4	8.4	3.2	-2.4	6.7	2.5	1.4
Turkey	8.8	-3.1	8.2	0.1	6.8	5.6	5.8
UK	4.3	3.5	0.8	-5.0	2.4	3.0	-1.0
<b>Europe</b>	<b>3.5</b>	<b>2.7</b>	<b>-0.4</b>	<b>-3.5</b>	<b>4.7</b>	<b>1.7</b>	<b>1.7</b>
<b>World</b>	<b>7.3</b>	<b>7.5</b>	<b>4.7</b>	<b>-2.9</b>	<b>7.1</b>	<b>4.2</b>	<b>4.4</b>

All growth rates are calculated based on a 2015 constant dollar exchange rate basis with regional aggregates calculated as the sum of each country in constant dollar terms.

**Table 88 - General purpose machinery output**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	1.9	8.6	-2.2	-7.1	5.9	1.9	3.9
Indonesia	3.7	8.2	-17.9	3.2	3.0	6.3	5.7
India	16.5	13.1	-14.1	1.5	4.9	5.9	6.1
Japan	-11.3	13.9	0.2	-6.3	3.6	1.9	2.2
Malaysia	13.2	6.7	-1.6	0.7	8.7	4.9	4.7
S. Korea	10.1	-0.5	-4.9	-1.3	6.6	8.6	7.1
Taiwan	13.4	-8.6	-15.9	-6.5	1.3	0.7	1.4
Thailand	-6.6	5.1	13.5	-3.1	4.7	2.4	3.4
Vietnam	11.6	5.0	10.3	5.4	9.6	8.0	6.5
<b>Asia</b>	<b>1.0</b>	<b>8.7</b>	<b>-2.4</b>	<b>-6.4</b>	<b>5.6</b>	<b>2.4</b>	<b>3.9</b>
Brazil	5.1	-12.8	-4.6	0.6	6.6	6.4	5.3
Canada	0.1	16.2	5.9	-4.5	2.2	1.2	1.3
Mexico	32.2	0.0	-1.8	-13.9	1.9	2.4	2.0
US	-2.9	3.0	-2.4	-1.9	3.3	1.8	2.2
<b>Americas</b>	<b>4.1</b>	<b>1.9</b>	<b>-2.2</b>	<b>-4.7</b>	<b>3.1</b>	<b>2.1</b>	<b>2.2</b>
Austria	2.1	3.1	4.2	2.0	3.8	3.7	2.6
Czech Republic	-0.4	8.2	-4.9	4.7	2.7	2.6	2.5
France	5.6	10.1	-1.0	1.0	4.2	1.9	1.5
Germany	7.4	9.5	-5.5	-1.4	4.6	1.8	1.4
Hungary	20.5	1.4	3.2	3.0	1.0	1.6	1.0
Italy	7.2	8.1	-10.9	-3.3	4.8	1.5	1.1
Poland	5.9	16.5	1.8	6.4	3.0	4.1	3.5
Russia	30.8	-4.5	-23.0	-4.6	8.9	0.9	2.0
Slovakia	1.0	-7.6	-6.3	13.2	11.3	0.1	3.6
Spain	18.7	14.7	-9.2	1.4	3.1	1.8	2.1
Switzerland	2.2	-1.1	-4.6	-7.9	12.0	6.2	3.0
Turkey	11.8	2.5	-15.9	-2.0	8.4	3.6	4.0
UK	10.2	1.9	-8.8	-10.7	2.9	3.1	0.5
<b>Europe</b>	<b>7.3</b>	<b>5.7</b>	<b>-7.7</b>	<b>-1.9</b>	<b>5.0</b>	<b>2.2</b>	<b>1.6</b>
<b>World</b>	<b>2.2</b>	<b>7.5</b>	<b>-3.1</b>	<b>-5.6</b>	<b>5.3</b>	<b>2.3</b>	<b>3.4</b>

All growth rates are calculated based on a 2015 constant dollar exchange rate basis with regional aggregates calculated as the sum of each country in constant dollar terms.

**Table 89 - Metal products output**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	6.4	4.2	5.7	-3.1	2.9	3.6	3.6
Indonesia	7.6	4.6	-17.7	-2.8	9.2	5.1	4.2
India	0.9	9.0	-14.3	-0.2	5.4	6.8	6.7
Japan	2.9	1.2	-1.5	-5.4	-0.5	2.0	1.2
Malaysia	4.6	4.8	3.8	1.1	4.1	4.2	3.4
S. Korea	-3.4	-6.6	0.5	-1.7	1.2	2.2	3.2
Taiwan	1.1	-0.4	-6.7	-3.2	1.9	4.0	2.4
Thailand	-2.8	1.3	-9.0	-4.3	3.4	2.9	2.6
Vietnam	27.0	13.9	11.2	5.5	20.0	7.3	7.2
<b>Asia</b>	<b>4.2</b>	<b>2.8</b>	<b>1.8</b>	<b>-3.0</b>	<b>2.6</b>	<b>3.5</b>	<b>3.4</b>
Brazil	-0.9	4.0	4.8	-0.8	0.9	4.1	2.0
Canada	4.8	7.5	4.9	-4.5	5.3	2.2	1.6
Mexico	0.7	1.1	-6.5	-4.2	2.9	-0.3	0.5
US	2.0	5.8	1.7	-2.9	5.7	-1.5	1.1
<b>Americas</b>	<b>2.0</b>	<b>5.7</b>	<b>1.7</b>	<b>-3.0</b>	<b>5.4</b>	<b>-1.0</b>	<b>1.1</b>
Austria	7.0	5.7	-6.7	-5.6	7.5	3.3	2.3
Czech Republic	11.4	2.3	0.0	-0.9	4.2	2.2	1.6
France	2.6	1.5	-2.3	-3.0	3.4	1.9	1.6
Germany	5.4	1.8	-2.8	-6.5	6.0	1.0	0.9
Hungary	11.4	8.1	-2.4	0.2	5.8	2.7	2.6
Italy	5.3	1.7	-3.7	-7.8	12.0	2.7	1.8
Poland	5.6	9.3	6.9	2.0	4.3	3.2	4.4
Russia	-1.4	0.9	4.8	-3.3	1.9	2.6	1.0
Slovakia	6.1	12.6	-13.3	-5.4	8.4	2.4	2.1
Spain	6.2	-0.5	4.4	-1.0	4.5	3.1	2.2
Switzerland	10.5	4.1	-0.3	-5.5	4.5	1.1	-0.2
Turkey	12.4	-4.4	0.2	-1.7	6.3	2.8	3.3
UK	0.0	-1.0	1.9	-4.3	1.8	1.0	-2.1
<b>Europe</b>	<b>4.7</b>	<b>1.7</b>	<b>-0.7</b>	<b>-4.5</b>	<b>5.5</b>	<b>2.0</b>	<b>1.3</b>
<b>World</b>	<b>3.7</b>	<b>3.2</b>	<b>0.9</b>	<b>-3.5</b>	<b>4.4</b>	<b>1.6</b>	<b>2.0</b>

All growth rates are calculated based on a 2015 constant dollar exchange rate basis with regional aggregates calculated as the sum of each country in constant dollar terms.

**Table 90 - Motor vehicle output**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	12.0	5.0	2.2	-9.3	10.2	6.8	6.2
Indonesia	1.3	4.9	0.0	-0.9	10.5	3.8	4.4
India	11.8	17.8	-14.2	-9.7	16.9	5.8	3.9
Japan	6.7	1.9	-1.2	-12.8	13.1	0.3	-0.6
Malaysia	4.4	6.6	7.0	-0.4	8.3	5.3	4.9
S. Korea	0.3	0.2	-0.3	-5.3	6.0	2.7	0.6
Taiwan	1.6	-6.5	-1.8	2.1	-0.2	2.2	-0.2
Thailand	3.2	8.2	-7.6	-7.8	8.0	4.7	4.0
Vietnam	18.2	17.9	9.2	-8.7	18.1	5.0	5.6
<b>Asia</b>	<b>8.1</b>	<b>4.2</b>	<b>-0.6</b>	<b>-9.7</b>	<b>10.7</b>	<b>4.1</b>	<b>3.2</b>
Brazil	17.2	12.8	1.9	-6.5	9.3	7.3	3.8
Canada	-1.8	-1.4	-1.6	-15.0	10.2	-0.7	6.2
Mexico	10.1	3.4	1.6	-12.2	15.7	0.1	4.9
US	0.5	5.3	-1.7	-8.5	16.1	-0.2	1.4
<b>Americas</b>	<b>2.7</b>	<b>5.0</b>	<b>-0.9</b>	<b>-9.4</b>	<b>15.3</b>	<b>0.3</b>	<b>2.4</b>
Austria	4.5	10.7	6.9	-13.6	12.9	-1.7	1.5
Czech Republic	14.2	0.4	1.6	-9.5	13.8	1.9	4.1
France	4.5	0.2	-2.7	-16.1	16.9	5.7	3.4
Germany	3.5	-1.5	-10.7	-15.1	21.6	1.0	1.2
Hungary	1.7	-3.1	8.9	-11.3	20.5	8.0	9.0
Italy	5.1	-2.7	-8.7	-12.6	24.7	2.7	0.2
Poland	2.9	2.9	3.4	-7.0	7.1	8.0	9.4
Russia	13.7	11.8	-5.8	-12.4	25.5	6.3	5.9
Slovakia	-1.4	32.9	1.4	-7.0	9.6	0.7	-4.4
Spain	-1.5	-3.6	0.2	-11.7	21.2	-2.9	-1.2
Switzerland	-3.5	4.0	-0.6	-5.0	3.2	1.9	2.1
Turkey	17.4	-3.4	-3.7	-8.7	13.4	0.6	11.0
UK	1.2	-1.6	-9.1	-14.3	21.1	-2.8	-1.2
<b>Europe</b>	<b>4.4</b>	<b>-0.3</b>	<b>-6.5</b>	<b>-13.3</b>	<b>19.2</b>	<b>1.5</b>	<b>2.3</b>
<b>World</b>	<b>5.7</b>	<b>3.3</b>	<b>-2.1</b>	<b>-10.4</b>	<b>13.8</b>	<b>2.4</b>	<b>2.8</b>

All growth rates are calculated based on a 2015 constant dollar exchange rate basis with regional aggregates calculated as the sum of each country in constant dollar terms.



**Table 91 - Other transport equipment output**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	6.4	0.1	9.4	-1.9	9.5	5.3	5.1
Indonesia	6.1	1.9	5.9	-2.6	11.7	5.9	5.4
India	10.5	21.0	-6.0	4.2	5.4	6.6	6.3
Japan	0.3	-8.3	2.0	9.1	0.1	1.8	1.9
Malaysia	3.5	-0.1	4.4	2.1	4.3	3.6	3.0
S. Korea	-27.7	-9.3	20.1	2.6	4.1	3.5	3.0
Taiwan	6.7	0.9	6.3	4.0	1.9	3.9	2.7
Thailand	4.0	-0.2	-3.5	-4.8	4.1	3.7	3.6
Vietnam	26.3	5.6	-3.8	-6.1	15.1	4.3	5.4
<b>Asia</b>	<b>0.6</b>	<b>-0.1</b>	<b>7.5</b>	<b>0.6</b>	<b>7.1</b>	<b>4.7</b>	<b>4.5</b>
Brazil	-9.7	-1.5	-9.1	-0.9	-2.6	3.1	3.2
Canada	4.3	4.7	-2.0	8.0	2.8	1.5	0.7
Mexico	-0.8	27.4	27.7	9.9	2.8	2.0	2.1
US	3.2	1.1	0.7	-2.0	4.6	-0.7	1.9
<b>Americas</b>	<b>2.7</b>	<b>2.6</b>	<b>1.8</b>	<b>-0.4</b>	<b>4.1</b>	<b>-0.2</b>	<b>1.8</b>
Austria	6.9	13.3	7.5	2.0	5.3	2.4	2.1
Czech Republic	-5.5	11.7	1.5	-1.1	3.4	2.4	2.4
France	3.4	6.9	8.0	4.1	2.2	1.4	1.1
Germany	-4.4	12.7	6.4	-0.8	5.5	1.4	0.9
Hungary	20.3	30.8	21.2	5.6	5.0	4.5	2.9
Italy	5.8	3.5	5.0	-1.1	4.4	2.5	2.4
Poland	4.2	15.5	25.3	8.0	6.9	4.7	4.0
Russia	24.5	45.2	109.6	11.6	3.7	4.5	3.9
Slovakia	-1.4	32.9	1.4	2.4	4.8	3.9	2.3
Spain	4.0	20.2	-4.4	-3.3	4.8	3.1	2.4
Switzerland	1.4	2.3	1.6	-1.9	5.4	2.6	1.6
Turkey	-6.8	13.6	33.1	9.6	2.0	3.4	3.1
UK	18.8	15.1	6.4	2.3	3.4	2.7	0.3
<b>Europe</b>	<b>2.7</b>	<b>5.2</b>	<b>6.6</b>	<b>0.5</b>	<b>3.9</b>	<b>2.4</b>	<b>1.5</b>
<b>World</b>	<b>1.4</b>	<b>1.4</b>	<b>6.2</b>	<b>0.4</b>	<b>5.9</b>	<b>3.4</b>	<b>3.5</b>

All growth rates are calculated based on a 2015 constant dollar exchange rate basis with regional aggregates calculated as the sum of each country in constant dollar terms.

**Table 92 Precision and optical equipment output**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	19.6	-20.3	-4.4	-2.3	6.2	6.6	6.8
Indonesia	-0.7	-22.5	-3.7	-2.4	9.6	7.5	5.9
India	10.5	21.1	-5.9	-14.0	6.3	7.7	8.2
Japan	2.1	8.3	-4.9	-6.5	-0.5	2.4	2.7
Malaysia	3.7	6.8	-2.3	-1.2	7.9	5.2	5.0
S. Korea	22.8	17.5	-15.4	-1.1	5.3	1.9	2.3
Taiwan	5.6	10.2	26.4	-1.0	4.0	3.7	3.2
Thailand	3.8	0.7	-7.0	-1.0	2.0	3.0	2.8
Vietnam	-8.2	13.0	7.4	1.5	16.2	8.3	8.4
<b>Asia</b>	<b>11.6</b>	<b>-1.9</b>	<b>-3.9</b>	<b>-3.9</b>	<b>4.2</b>	<b>4.5</b>	<b>4.8</b>
Brazil	14.0	-5.4	2.1	-5.5	0.1	6.6	4.5
Canada	18.3	-1.7	5.1	-4.2	1.4	0.9	0.5
Mexico	-7.4	1.2	0.1	-2.1	2.0	0.4	0.8
US	6.8	5.1	4.9	0.2	6.0	1.9	3.9
<b>Americas</b>	<b>6.8</b>	<b>4.9</b>	<b>4.8</b>	<b>0.1</b>	<b>5.9</b>	<b>1.9</b>	<b>3.8</b>
Austria	16.6	12.1	0.3	-4.3	5.7	2.0	1.7
Czech Republic	18.9	11.8	-0.2	1.8	1.6	3.2	3.4
France	12.4	3.4	0.0	-8.0	1.1	0.5	0.4
Germany	8.7	3.4	-2.7	-5.5	3.4	-0.3	0.1
Hungary	14.3	12.0	6.0	6.7	4.2	4.5	3.7
Italy	6.7	7.4	9.3	5.8	2.1	1.0	1.2
Poland	5.7	4.3	6.7	5.3	7.9	5.4	4.4
Russia	-2.5	-4.6	0.8	0.8	0.3	0.8	0.6
Slovakia	-9.0	-1.0	-4.9	-8.1	-0.3	6.7	6.5
Spain	-4.4	4.5	5.4	5.8	3.1	3.9	3.7
Switzerland	3.7	2.8	0.1	-5.2	5.0	2.4	2.5
Turkey	16.0	7.2	14.7	0.1	5.7	6.3	6.5
UK	4.9	14.6	0.8	-3.4	1.6	3.2	-0.3
<b>Europe</b>	<b>6.8</b>	<b>5.6</b>	<b>0.5</b>	<b>-3.7</b>	<b>3.0</b>	<b>1.6</b>	<b>1.1</b>
<b>World</b>	<b>8.1</b>	<b>3.3</b>	<b>1.1</b>	<b>-2.2</b>	<b>4.5</b>	<b>2.5</b>	<b>3.1</b>

All growth rates are calculated based on a 2015 constant dollar exchange rate basis with regional aggregates calculated as the sum of each country in constant dollar terms.

**Table 93 - Special purpose machinery output**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	12.4	10.4	8.3	-2.6	6.2	5.0	5.6
Indonesia	1.6	5.7	1.8	-3.9	6.0	5.2	4.3
India	6.9	8.9	-8.5	2.3	5.6	6.8	6.4
Japan	13.3	5.4	-6.9	-6.1	2.6	1.9	1.8
Malaysia	6.1	6.1	3.0	0.2	10.2	5.2	4.7
S. Korea	23.3	-3.8	-9.7	-1.0	6.2	6.1	5.0
Taiwan	11.5	7.2	-14.4	-8.5	2.1	3.9	3.1
Thailand	16.9	1.5	4.3	-2.2	0.2	2.7	2.9
Vietnam	1.6	6.6	12.5	-1.3	16.7	7.0	6.7
<b>Asia</b>	<b>13.1</b>	<b>7.7</b>	<b>2.4</b>	<b>-3.2</b>	<b>5.3</b>	<b>4.4</b>	<b>4.8</b>
Brazil	3.1	8.1	1.7	-3.7	2.4	5.2	4.1
Canada	20.8	2.3	0.3	-6.7	4.6	1.4	1.1
Mexico	2.9	4.6	0.1	-4.5	3.5	-0.2	0.4
US	10.6	6.0	-0.1	-4.9	6.5	0.2	2.7
<b>Americas</b>	<b>10.6</b>	<b>5.8</b>	<b>0.1</b>	<b>-5.0</b>	<b>6.0</b>	<b>0.6</b>	<b>2.6</b>
Austria	10.3	7.8	5.2	-0.7	6.3	3.4	2.7
Czech Republic	15.7	2.2	-1.9	-0.9	2.9	2.5	2.2
France	5.5	-0.9	-4.3	0.4	2.4	2.0	1.4
Germany	8.2	4.2	-2.1	-4.4	7.3	1.2	1.1
Hungary	10.9	-3.0	5.5	1.4	1.4	1.7	1.4
Italy	6.2	3.8	-3.8	-7.2	6.5	1.3	1.4
Poland	6.6	9.9	6.0	1.9	4.7	3.5	2.7
Russia	4.3	-4.8	-2.2	2.3	4.5	-1.0	1.2
Slovakia	1.7	18.2	13.4	7.6	11.9	0.5	2.4
Spain	3.7	-1.0	-3.4	2.8	4.1	2.4	1.7
Switzerland	3.5	2.4	-0.4	-5.9	5.3	2.3	1.9
Turkey	11.7	0.1	-5.5	-0.2	7.0	3.8	3.6
UK	3.5	2.4	-0.4	-5.9	5.3	2.3	1.9
<b>Europe</b>	<b>7.3</b>	<b>3.4</b>	<b>-1.9</b>	<b>-3.7</b>	<b>6.3</b>	<b>1.8</b>	<b>1.5</b>
<b>World</b>	<b>11.4</b>	<b>6.4</b>	<b>1.1</b>	<b>-3.6</b>	<b>5.6</b>	<b>3.2</b>	<b>3.7</b>

All growth rates are calculated based on a 2015 constant dollar exchange rate basis with regional aggregates calculated as the sum of each country in constant dollar terms.

**Table 94 - Apparent consumption**

	Americas		Europe		Europe ex-Russia		Asia	
	Billion US\$	% change	Billion US\$	% change	Billion US\$	% change	Billion US\$	% change
2007	11.91	13.6	22.74	32.1	21.54	31.3	36.11	7.9
2008	13.23	11.1	27.01	18.8	25.0	15.9	39.39	9.1
2009	7.75	-41.4	14.88	-44.9	13.7	-45.2	29.95	-23.9
2010	8.26	6.5	13.46	-9.6	12.2	-10.9	43.93	46.7
2011	12.55	51.9	18.23	35.5	16.5	35.1	60.25	37.2
2012	14.75	17.5	17.79	-2.5	15.7	-4.8	58.57	-2.8
2013	14.46	-2.0	19.01	6.9	16.7	6.8	48.06	-17.9
2014	13.43	-7.1	20.29	6.7	17.9	7.1	49.83	3.7
2015	12.82	-4.6	18.66	-8.1	17.0	-5.4	44.24	-11.2
2016	11.70	-8.7	18.63	-0.1	17.2	1.5	43.45	-1.8
2017	12.86	9.8	20.25	8.7	18.6	7.9	46.57	7.2
2018	14.15	10.1	23.60	16.6	21.7	16.8	48.22	3.5
2019 f	13.55	-4.2	21.76	-7.8	20.0	-7.9	39.42	-18.3
2020 f	8.97	-33.8	16.13	-25.8	14.8	-26.0	28.49	-27.7
2021 f	11.84	32.1	19.30	19.6	17.8	20.3	38.69	35.8
2022 f	12.50	5.6	20.29	5.2	18.5	4.3	40.79	5.4
2023 f	12.97	3.8	21.05	3.7	19.2	3.6	43.03	5.5

All MT figures are calculated using current exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date.

Source: Oxford Economics

Note the US consumption data has been revised since our Autumn 2011 report as the previous shipments series used in the calculation is no longer published

<b>Table 95 - GDP</b>							
(% change unless specified)							
	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
China	6.9	6.7	6.1	-0.2	9.0	5.8	5.6
India	6.6	6.8	5.3	-1.0	8.9	6.8	7.1
Indonesia	5.1	5.2	5.0	0.0	9.0	6.2	5.3
Japan	2.2	0.3	0.7	-4.8	3.9	2.1	1.2
Malaysia	5.7	4.7	4.3	-2.5	7.2	4.8	4.4
S. Korea	3.2	2.7	2.0	-1.0	3.5	3.4	3.2
Taiwan	3.3	2.7	2.7	-0.6	3.6	2.9	2.5
Thailand	4.1	4.2	2.4	-4.9	6.6	4.6	3.6
Vietnam	6.9	7.1	7.0	1.9	8.4	6.7	6.2
<b>Asia</b>	<b>5.5</b>	<b>5.0</b>	<b>4.6</b>	<b>-1.2</b>	<b>7.6</b>	<b>5.1</b>	<b>4.8</b>
Brazil	1.3	1.3	1.1	-2.7	4.3	2.5	2.4
Canada	3.2	2.0	1.6	-6.5	9.2	2.0	1.6
Mexico	2.4	2.1	-0.1	-3.9	3.2	2.9	2.3
US	2.4	2.9	2.3	-4.1	7.7	1.6	1.6
<b>Americas</b>	<b>2.3</b>	<b>2.7</b>	<b>2.1</b>	<b>-4.1</b>	<b>7.3</b>	<b>1.7</b>	<b>1.7</b>
Austria	2.6	2.3	1.5	-5.6	6.8	2.3	1.6
Czech Republic	4.5	2.8	2.5	-1.7	5.3	1.9	1.8
France	2.4	1.7	1.3	-5.3	4.4	2.5	2.1
Germany	2.8	1.5	0.6	-3.9	4.7	1.4	1.1
Hungary	4.5	5.1	4.9	-3.1	7.5	3.3	2.1
Italy	1.7	0.7	0.3	-7.6	3.8	2.8	1.4
Poland	5.0	5.2	4.2	-1.7	5.2	2.7	2.1
Russia	1.8	2.5	1.3	-6.4	6.8	2.9	1.7
Slovakia	3.0	4.0	2.3	-1.9	6.3	3.1	2.4
Spain	2.9	2.4	2.0	-5.6	4.2	3.1	1.8
Switzerland	1.8	2.8	0.9	-3.3	5.0	2.1	1.0
Turkey	7.5	2.8	0.9	-1.4	5.9	4.9	4.2
UK	1.9	1.3	1.4	-5.1	6.0	2.5	1.4
<b>Europe</b>	<b>2.4</b>	<b>1.8</b>	<b>1.2</b>	<b>-5.0</b>	<b>5.0</b>	<b>2.4</b>	<b>1.5</b>
<b>World</b>	<b>3.3</b>	<b>3.2</b>	<b>2.6</b>	<b>-2.8</b>	<b>5.9</b>	<b>3.4</b>	<b>3.0</b>

GDP growth rates are calculated from values in constant price local currency terms

**Table 96 - Industrial production**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	5.8	5.8	5.7	-3.3	7.4	4.9	5.5
India	3.5	5.2	0.6	-2.9	7.7	6.5	6.7
Indonesia	4.7	4.0	4.0	-1.7	8.1	5.2	4.6
Japan	2.9	1.0	-2.5	-8.9	6.9	1.9	1.2
Malaysia	4.5	3.0	2.4	-5.1	6.8	3.7	3.1
S. Korea	3.2	1.5	-0.5	-2.0	4.5	3.4	2.9
Taiwan	5.0	3.6	-0.3	-0.5	4.2	4.1	2.7
Thailand	1.6	4.3	-3.9	-10.5	9.7	4.1	3.4
Vietnam	8.0	8.9	8.9	1.6	10.7	6.4	7.1
<b>Asia</b>	<b>4.7</b>	<b>4.3</b>	<b>2.8</b>	<b>-4.0</b>	<b>7.2</b>	<b>4.5</b>	<b>4.6</b>
Brazil	2.9	0.8	-1.1	-3.5	3.3	3.4	3.0
Canada	4.5	3.1	-1.1	-11.0	11.9	3.5	1.6
Mexico	0.0	0.4	-1.8	-5.8	2.4	1.8	1.9
US	2.3	4.0	0.9	-7.7	8.2	3.5	1.5
<b>Americas</b>	<b>2.2</b>	<b>3.2</b>	<b>0.2</b>	<b>-7.2</b>	<b>7.2</b>	<b>3.3</b>	<b>1.7</b>
Austria	4.9	4.8	0.5	-6.7	6.3	2.1	2.0
Czech Republic	6.7	3.1	-0.3	-4.0	7.4	2.1	2.4
France	2.4	0.4	0.3	-5.0	4.2	2.1	1.5
Germany	3.3	1.0	-4.6	-5.7	6.6	0.8	0.9
Hungary	5.3	3.8	5.3	-1.1	6.4	3.5	3.0
Italy	3.7	0.6	-1.4	-15.4	12.1	3.9	1.4
Poland	6.8	5.7	4.4	-1.9	5.5	2.7	2.6
Russia	2.3	3.7	2.3	-1.7	2.6	1.9	1.7
Slovakia	3.2	4.5	0.5	-2.1	6.2	1.3	0.6
Spain	3.2	0.3	0.7	-11.2	9.5	1.9	1.2
Switzerland	6.0	5.5	4.5	-2.7	5.1	2.1	2.2
Turkey	9.1	1.1	-0.6	-0.2	3.4	2.8	2.9
UK	1.7	0.8	-1.4	-8.9	8.0	2.0	-1.0
<b>Europe</b>	<b>3.0</b>	<b>1.9</b>	<b>-0.4</b>	<b>-5.8</b>	<b>5.9</b>	<b>1.9</b>	<b>1.2</b>
<b>World</b>	<b>3.6</b>	<b>3.5</b>	<b>1.4</b>	<b>-5.3</b>	<b>7.0</b>	<b>3.6</b>	<b>3.1</b>

Regional industrial production weight relevant countries together using 2015 weights

**Table 97 - Output of Machine Tool purchasing industries**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023
China	9.2	8.7	7.4	-4.9	7.1	4.9	5.2
India	4.5	11.1	-10.6	-0.4	6.8	6.6	6.3
Indonesia	3.6	-1.0	-6.2	-3.1	9.1	5.8	4.9
Japan	5.6	2.6	-3.1	-6.9	3.5	1.6	1.1
S. Korea	0.6	-1.5	1.0	-1.8	3.7	3.2	3.1
Malaysia	5.2	5.4	4.3	0.4	6.3	4.9	4.1
Taiwan	4.1	1.8	-3.8	-2.1	3.5	4.3	2.7
Thailand	2.3	5.0	-5.6	-5.6	5.2	3.9	3.6
Vietnam	18.6	13.4	10.3	3.8	18.7	7.1	7.4
<b>Asia</b>	<b>7.5</b>	<b>6.7</b>	<b>4.0</b>	<b>-4.7</b>	<b>6.3</b>	<b>4.4</b>	<b>4.5</b>
Brazil	3.6	5.7	2.9	-2.5	2.8	5.1	2.9
Canada	4.8	5.6	3.5	-5.8	5.5	1.7	2.0
Mexico	5.5	2.4	-1.0	-7.4	8.2	0.0	2.5
US	2.5	5.5	1.2	-3.8	7.3	-0.9	1.5
<b>Americas</b>	<b>2.9</b>	<b>5.4</b>	<b>1.3</b>	<b>-4.1</b>	<b>7.0</b>	<b>-0.4</b>	<b>1.7</b>
Austria	7.2	6.3	-2.9	-5.0	7.5	2.9	2.3
Czech Republic	12.0	1.9	0.3	-2.6	5.9	2.2	2.3
France	2.7	1.2	-1.9	-4.1	4.4	2.2	1.8
Germany	5.0	1.5	-4.0	-7.1	8.3	1.0	1.0
Hungary	8.3	1.6	1.9	-2.5	8.2	4.0	4.1
Italy	5.4	1.9	-3.3	-7.0	10.5	2.4	1.7
Poland	5.2	8.5	6.6	1.0	4.7	3.8	4.8
Russia	-0.4	0.8	2.6	-3.4	2.8	2.6	1.3
Slovakia	3.8	17.0	-6.3	-3.5	9.1	1.7	0.8
Spain	5.4	-0.3	3.3	-2.1	6.0	2.4	1.8
Switzerland	7.4	3.8	-0.1	-5.4	4.9	1.5	0.6
Turkey	12.6	-2.8	-0.5	-2.2	7.1	2.7	4.2
UK	1.5	-0.2	-1.2	-6.1	3.9	1.0	-1.8
<b>Europe</b>	<b>4.8</b>	<b>1.7</b>	<b>-1.6</b>	<b>-5.2</b>	<b>6.8</b>	<b>1.9</b>	<b>1.4</b>
<b>World</b>	<b>5.7</b>	<b>5.1</b>	<b>2.0</b>	<b>-4.7</b>	<b>6.6</b>	<b>2.7</b>	<b>3.1</b>

Growth rates for countries reflect weighted production of the MT consuming sectors in constant price local currency terms

Regional growth rates are calculated by using the sum of countries, in constant dollar terms

**Source:** Oxford Economics & Haver Analytics

**Table 98 - Investment**

(% change unless specified)

	2018	2019	2020	2021	2022	2023	Level in 2018, US\$bn
China	6.6	4.4	-4.9	5.1	2.2	3.7	760.2
India	18.0	-11.6	-0.5	6.6	6.7	7.1	44.0
Indonesia	4.5	-12.9	-1.5	8.3	6.4	5.3	17.2
Japan	1.0	-2.3	-5.8	3.6	1.8	1.5	206.6
S. Korea	-8.7	-6.8	-1.3	4.5	5.7	5.4	93.9
Malaysia	-1.1	-2.2	-0.9	5.5	4.4	4.1	6.2
Taiwan	-3.4	1.2	-0.8	1.6	0.7	0.8	58.2
Thailand	1.6	-1.1	-6.2	5.5	3.5	3.1	35.7
Vietnam	12.2	9.1	6.6	10.5	7.3	6.2	7.3
<b>Asia</b>	<b>4.3</b>	<b>1.3</b>	<b>-4.3</b>	<b>4.8</b>	<b>2.7</b>	<b>3.5</b>	<b>1229.4</b>
Brazil	5.4	3.2	-3.1	7.7	6.1	4.5	19.2
Canada	0.0	-0.1	-3.9	3.2	1.3	1.8	9.5
Mexico	-0.7	-4.4	-11.1	0.2	2.2	2.1	30.9
US	3.4	0.0	-2.2	4.6	1.1	1.5	240.5
<b>Americas</b>	<b>3.0</b>	<b>-0.3</b>	<b>-3.2</b>	<b>4.3</b>	<b>1.6</b>	<b>1.8</b>	<b>300.1</b>
Austria	4.7	-2.4	-2.7	4.6	2.7	1.9	11.0
Czech Republic	3.2	-0.3	2.5	4.2	2.4	2.5	9.3
France	3.7	1.2	-1.3	4.6	2.2	1.7	37.2
Germany	4.6	0.6	-3.8	5.6	2.0	1.4	115.2
Hungary	20.3	12.7	3.8	5.3	2.8	2.7	5.7
Italy	2.4	-7.8	-7.7	12.3	2.5	1.2	36.2
Poland	12.4	11.4	4.8	3.5	4.5	5.0	9.0
Russia	4.4	0.4	-7.9	8.0	4.1	3.2	16.4
Slovakia	-12.0	-7.2	1.8	7.7	1.7	2.8	5.3
Spain	8.8	-5.3	2.4	4.2	2.1	2.5	5.2
Switzerland	1.5	-2.9	-7.8	10.3	5.2	1.0	12.6
Turkey	-3.5	-13.8	-2.1	8.8	4.0	5.7	14.0
UK	-2.0	-1.5	-7.4	5.1	2.0	0.9	22.2
<b>Europe</b>	<b>3.5</b>	<b>-1.2</b>	<b>-3.7</b>	<b>6.6</b>	<b>2.5</b>	<b>1.9</b>	<b>299.4</b>
<b>World</b>	<b>3.9</b>	<b>0.6</b>	<b>-4.1</b>	<b>5.0</b>	<b>2.5</b>	<b>2.9</b>	<b>1828.8</b>

National investment growth rates expressed in local currency units; regional growth rates are weighted averages of national growth

Total investment = spending on all assets by the nine primary machine tool purchasing industries

Source: Oxford Economics & Haver Analytics



**Table 99 - World investment**

(% change unless specified)

	2017	2018	2019	2020	2021	2022	2023	Level in 2018, US\$bn
Basic Metals	-6.0	1.0	-1.1	-2.6	2.4	1.8	2.6	156.6
Electrical Engineering	8.0	10.9	2.5	-2.0	6.0	3.2	3.8	538.7
General Purpose Machinery	2.2	7.5	-3.1	-5.6	5.3	2.3	3.4	197.8
Metal Products	1.9	3.5	-3.4	-3.0	2.4	1.6	2.2	172.2
Motor Vehicles	8.9	5.2	-5.4	-10.7	13.2	2.7	2.7	390.4
Aerospace	-1.3	6.0	-3.8	-3.6	7.2	3.3	3.2	42.1
Precision and Optical Instruments	6.0	3.1	0.1	-0.5	3.6	3.4	3.4	111.2
Special Purpose Machinery	6.4	8.2	-1.0	-3.0	4.3	2.5	3.6	219.8
Other transport equipment	-0.2	3.0	1.5	0.3	5.3	2.9	3.2	68.7
<b>Total</b>	<b>3.1</b>	<b>5.0</b>	<b>-1.1</b>	<b>-4.2</b>	<b>5.1</b>	<b>2.4</b>	<b>3.2</b>	<b>1828.8</b>

All growth rates are calculated based on dollar values using actual exchange rates to 2019 and then fixed at 2019 exchange rates beyond that date

In order to create global aggregates of investment by sector, it is necessary to convert investment by sector in each country into US\$ terms to provide a simple aggregation. This is different to the method of calculating growth rates of regional aggregates in Table 89 and the Overview table on page 5 of the report. As a result, growth in total investment in this table will differ slightly compared to Table 89 and the Overview table on page 5 of the report.

**Table 100 - Exchange rates**

(per US\$)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
China	6.95	6.83	6.77	6.46	6.31	6.15	6.16	6.28	6.64	6.76	6.61	6.91
India	43.51	48.69	45.74	46.67	53.43	58.54	61.03	64.15	67.20	65.11	68.40	70.42
Indonesia	9658.55	10383.96	9082.05	8768.23	9372.59	10419.68	11850.00	13393.75	13303.68	13379.30	14230.65	14138.04
Japan	103.37	93.60	89.04	79.78	79.79	97.57	105.70	121.09	108.73	112.13	110.38	109.02
S. Korea	1100.13	1277.25	1156.46	1108.23	1126.81	1094.98	1052.84	1130.95	1160.77	1131.00	1100.16	1165.36
Malaysia	3.33	3.52	3.22	3.06	3.09	3.15	3.27	3.91	4.15	4.30	4.04	4.14
Taiwan	31.53	33.06	31.65	29.47	29.62	29.77	30.36	31.91	32.33	30.44	30.16	30.93
Thailand	33.31	34.29	31.69	30.49	31.08	30.73	32.48	34.25	35.30	33.94	32.31	31.05
Vietnam	16440.42	17799.63	19130.50	20649.00	20858.92	21016.54	21189.25	21908.50	22354.58	22705.25	23012.21	23223.96
Brazil	1.84	2.00	1.76	1.67	1.95	2.16	2.35	3.33	3.48	3.19	3.65	3.94
Canada	1.07	1.14	1.03	0.99	1.00	1.03	1.10	1.28	1.33	1.30	1.30	1.33
Mexico	11.15	13.51	12.63	12.44	13.15	12.76	13.31	15.87	18.69	18.91	19.23	19.25
Eurozone	0.68	0.72	0.75	0.72	0.78	0.75	0.75	0.90	0.90	0.89	0.85	0.89
Czech Republic	17.07	19.06	19.10	17.70	19.58	19.57	20.76	24.60	24.44	23.38	21.73	22.93
Hungary	172.11	202.34	207.94	201.06	225.10	223.70	232.60	279.33	281.52	274.43	270.21	290.68
Poland	2.41	3.12	3.02	2.96	3.26	3.16	3.15	3.77	3.95	3.78	3.61	3.84
Russia	24.85	31.84	30.36	29.38	31.09	31.84	38.38	60.94	67.06	58.34	62.67	64.74
Switzerland	1.08	1.09	1.04	0.89	0.94	0.93	0.92	0.96	0.99	0.98	0.98	0.99
Turkey	1.30	1.55	1.50	1.68	1.80	1.90	2.19	2.72	3.02	3.65	4.82	5.68
UK	0.54	0.64	0.65	0.62	0.63	0.64	0.61	0.65	0.74	0.78	0.75	0.78

Source: Oxford Economics & Haver Analytics

**Table 101 - Exchange rates**

(per €)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
China	10.23	9.52	8.97	9.00	8.11	8.16	8.19	6.97	7.35	7.63	7.80	7.73
India	63.72	67.78	60.63	64.90	68.62	77.79	81.09	71.16	74.36	73.52	80.70	78.84
Indonesia	14142.21	14419.23	12043.98	12198.99	12039.75	13851.32	15737.53	14858.27	14720.50	15116.18	16794.28	15829.72
Japan	152.39	130.32	116.41	110.98	102.68	129.60	140.36	134.28	120.26	126.67	130.38	122.09
S. Korea	1604.86	1774.16	1532.66	1541.75	1447.56	1453.73	1398.52	1254.72	1284.32	1276.98	1298.82	1304.52
Malaysia	4.89	4.91	4.27	4.26	3.97	4.19	4.35	4.33	4.59	4.85	4.76	4.64
Taiwan	46.30	46.03	41.95	41.00	38.05	39.53	40.34	35.40	35.77	34.37	35.61	34.63
Thailand	48.91	47.73	42.01	42.43	39.93	40.82	43.16	37.99	39.05	38.30	38.15	34.77
Vietnam	24180.54	24805.11	25365.67	28742.94	26799.45	27910.07	28160.88	24309.31	24735.88	25648.69	27183.28	26002.24
Brazil	2.68	2.77	2.33	2.33	2.51	2.87	3.12	3.69	3.86	3.61	4.31	4.42
Canada	1.56	1.59	1.37	1.38	1.28	1.37	1.47	1.42	1.47	1.46	1.53	1.49
Mexico	16.31	18.79	16.75	17.30	16.90	16.95	17.68	17.60	20.67	21.33	22.70	21.55
US	1.47	1.39	1.33	1.39	1.28	1.33	1.33	1.11	1.11	1.13	1.18	1.12
Czech Republic	24.96	26.45	25.29	24.59	25.14	25.99	27.53	27.28	27.03	26.33	25.64	25.64
Hungary	251.47	280.57	275.32	279.27	289.34	297.01	308.66	309.90	311.47	309.30	318.83	325.36
Poland	3.52	4.33	3.99	4.12	4.19	4.20	4.18	4.18	4.36	4.26	4.26	4.30
Russia	36.43	44.25	40.25	40.86	39.93	42.29	50.76	67.61	74.20	65.92	73.90	72.49
Switzerland	1.59	1.51	1.38	1.23	1.21	1.23	1.21	1.07	1.09	1.11	1.15	1.11
Turkey	1.90	2.15	1.99	2.32	2.30	2.53	2.91	3.02	3.34	4.11	5.68	6.35
UK	0.79	0.89	0.86	0.87	0.81	0.85	0.81	0.73	0.82	0.88	0.88	0.88

Source: Oxford Economics & Haver Analytics

One of the main drivers of our forecasts of apparent consumption is investment in those sectors that are the main customers for the machine tools industry. The sectors we have identified as key for machine tool consumption based on input from Machine Tools Associations are: basic metals, metal products, general purpose machinery, special purpose machinery, electrical engineering, precision & optical instruments, motor vehicles, aerospace and other transport equipment. The NACE codes for each of these are given below.

Sector	Description	NACE rv 2 (2007)	NACE rv1 (2003)
Basic Metals	manufacture of basic iron and steel and of ferro-alloys; manufacture of tubes, pipes, hollow profiles and related fittings of steel; manufacture of other products of first processing of steel; manufacture of basic precious and other non-ferrous metals; castin of metals	24	27
Fabricated Metal Products	manufacture of structural metal products; manufacture of tanks; resevoirs and containers of metal; manufacture of steam generators; except central heating hot water boilers, forging, pressing, stamping and roll-forming of metal; powder metallurgy, treatment and coating of metals; machining, manufacture of cutlery, tools and general hardware; manufacture of other fabricated metal products	25	28
General Purpose Machinery	manufacture of all general purpose machinery	28.1, 28.2	29.1 to 29.2
Special Purpose Machinery	agricultural machinery; machine tools; weapons and ammunition; domestic appliances; other special purpose machinery	25.4, 27.5, 28.3, 28.4, 28.9	29.3 to 29.7
Electrical Engineering	computers & office equipment; motors, generators & transformers; electric fittings; other electric fittings; electric components; telecommunication equipment; consumer electronics	26.1-26.4, 27	30 to 32
Precision & Optical Instruments	medical & surgical equipment; other precision equipment	26.5-26.8	33
Motor Vehicles	motor vehicles; motor vehicle bodies & parts	29	34
Aerospace	aerospace	30.3	353
Other transport equipment	Ships, rolling stock & etc.	30 less 30.3	35 less 353