

## Development of the German Machine Tool Industry 2013-2018

<i>in Mill. EUR</i>	2013	2014	2015	2016	2017	2018	%-16/15	%-17/16	%-18/17
<b>Production</b>	<b>14 576</b>	<b>14 486</b>	<b>15 087</b>	<b>15 007</b>	<b>16 006</b>	<b>17 110</b>	<b>-1</b>	<b>+7</b>	<b>+7</b>
Cutting + physico-chemical process machine tools	7 941	7 912	8 456	8 169	8 806	9 347	-3	+8	+6
Forming + separating machine tools	3 204	2 860	2 752	2 943	3 004	3 224	+7	+2	+7
Parts, accessories	2 302	2 483	2 583	2 540	2 753	3 032	-2	+8	+10
Installation, repair/maintenance	1 128	1 231	1 295	1 355	1 442	1 506	+5	+6	+4
<b>Order intake</b>	<b>14 180</b>	<b>14 760</b>	<b>14 950</b>	<b>15 950</b>	<b>17 220</b>	<b>17 460</b>	<b>+7</b>	<b>+8</b>	<b>+1</b>
Domestic	4 670	4 920	4 860	4 850	5 340	5 600	-0	+10	+5
Foreign	9 510	9 840	10 090	11 100	11 880	11 860	+10	+7	-0
Production (excl. installation, repair/maintenance)	13 447	13 255	13 791	13 652	14 563	15 604	-1	+7	+7
- Exports	9 285	9 233	9 506	9 374	10 214	10 686	-1	+9	+5
= Domestic sales	4 162	4 022	4 286	4 278	4 349	4 918	-0	+2	+13
+ Imports	3 073	3 250	3 431	3 420	3 550	3 983	-0	+4	+12
= Domestic consumption	7 235	7 272	7 717	7 697	7 899	8 901	-0	+3	+13
<i>Index 2015=100</i>									
Production (nominal)	96.6	96.0	100.0	99.5	106.1	113.4	-0.5	+6.7	+6.9
Order intake (nominal)	94.8	98.7	100.0	106.7	115.2	116.8	+6.7	+8.0	+1.4
Producer prices	97.5	98.6	100.0	101.5	102.5	104.4	+1.5	+1.0	+1.9
Employment ( <i>thousands</i> )*	66.8	67.4	68.5	69.0	70.9	73.5	+0.7	+2.8	+3.5
Export rate (%)	69.0	69.7	68.9	68.7	70.1	68.5			
Import rate (%)	42.5	44.7	44.5	44.4	44.9	44.7			
Capacity utilization (%)*	92.8	90.1	88.2	88.0	91.6	93.9			
<i>in Bill. EUR</i>									
<b>World production (excl. parts, install., repair/maint.)**</b>	<b>61.1</b>	<b>63.8</b>	<b>68.9</b>	<b>67.5</b>	<b>71.9</b>	<b>73.8</b>			
China	14.9	14.8	16.1	17.4	17.9	16.4			
Germany	11.1	10.8	11.2	11.1	11.8	12.6			
Japan	9.1	11.0	12.0	10.9	11.6	12.4			
Italy	4.4	4.3	4.7	5.0	5.5	6.1			
USA	4.0	4.6	5.3	4.7	5.2	5.3			

\* Average of year

\*\* 2018 = preliminary, Revised VDW adjustment of Chinese production data (exclusion of „cheap and simple“ machines, e.g. 2018 by 18%)

Sources: VDW, VDMA, German Statistical Office, Ifo-Institute



## The German Machine Tool Industry Data and Facts 2018

### Machine tool industry share 2018 (in %)

	Production	Exports	Employment
in total manufacturing industry	1.14	0.88	1.35
in mechanical engineering	7.38	6.01	6.99

### Structure by size groups 2018 (in %)

Number of employees	Companies	Employment	Production
1 - 50	13.0	0.8	0.7
51 - 100	9.8	1.6	1.9
101 - 250	28.3	10.7	10.5
251 - 500	20.7	16.5	14.1
501 - 1000	17.4	26.4	24.0
> 1000	10.9	44.0	48.9

### Geographical distribution 2018 (in %)

German Countries	Companies	Employment	Production
Baden-Württemberg	41.3	47.8	56.1
North Rhine-Westphalia	16.3	16.1	15.6
Bavaria	15.2	24.1	18.6
Thuringia	8.7	5.5	5.0
Saxony	6.5	3.9	2.4
Hesse	5.4	1.2	1.0
Others	6.5	1.4	1.4

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## German Machine Tool Production and Trade by Machinery Groups 2018\*

	Production			Exports			Imports		
	Mill. EUR	%-18/17	%-share	Mill. EUR	%-18/17	%-share	Mill. EUR	%-18/17	%-share
Laser, ultrasonic, ion/plasma beam machines	820	+1	4.8	1 105	+12	10.3	604	+16	15.2
Electrical discharge machines	98	-3	0.6	87	-8	0.8	84	-5	2.1
Machining centers (incl. flexible systems)	2 142	+3	12.5	2 354	+2	22.0	494	+19	12.4
Transfer lines and unit construction machines	1 145	+6	6.7	182	-4	1.7	42	-29	1.0
Turning machines, turning centers	1 667	+15	9.7	1 102	+19	10.3	591	+16	14.8
Drilling machines	76	+15	0.4	61	+6	0.6	23	+15	0.6
Boring machines, boring-milling machines	135	-34	0.8	180	+5	1.7	70	-5	1.8
Milling machines	1 121	+12	6.5	386	+22	3.6	79	-11	2.0
Grinding, honing, polishing and lapping machines	1 237	+8	7.2	1 032	+2	9.7	437	+18	11.0
Gear cutting and finishing machines	576	+4	3.4	477	+7	4.5	74	+70	1.9
Sawing and cutting-off machines	240	+9	1.4	148	+11	1.4	37	+14	0.9
Other metal cutting machine tools	90	-7	0.5	99	-0	0.9	9	-25	0.2
<b>Metal cutting + physico-chemical process machine tools</b>	<b>9 347</b>	<b>+6</b>	<b>54.6</b>	<b>7 214</b>	<b>+7</b>	<b>67.5</b>	<b>2 543</b>	<b>+14</b>	<b>63.8</b>
<b>- NC controlled</b>	<b>8 435</b>	<b>+7</b>	<b>49.3</b>	<b>6 606</b>	<b>+7</b>	<b>61.8</b>	<b>2 263</b>	<b>+15</b>	<b>56.8</b>
Hammers and forging machines (incl. presses)	253	+48	1.5	131	-37	1.2	40	-26	1.0
Bending, folding and straightening machines (incl. presses)	686	+9	4.0	455	+2	4.3	155	+14	3.9
Shearing, punching and notching machines (incl. presses)	494	+26	2.9	349	+9	3.3	97	+1	2.4
Other presses	673	-17	3.9	348	-19	3.3	114	+18	2.9
Wire working machines (excl. wire drawing machines)	324	+14	1.9	-	-	-	37	-3	0.9
Other metal forming machine tools	796	+11	4.6	479	+17	4.5	29	-27	0.7
<b>Metal forming + separating machine tools</b>	<b>3 224</b>	<b>+7</b>	<b>18.8</b>	<b>1 761</b>	<b>-3</b>	<b>16.5</b>	<b>473</b>	<b>+3</b>	<b>11.9</b>
<b>- NC controlled</b>	<b>1 410</b>	<b>+10</b>	<b>8.2</b>	<b>986</b>	<b>-8</b>	<b>9.2</b>	<b>276</b>	<b>+10</b>	<b>6.9</b>
<b>Metal working machine tools</b>	<b>12 572</b>	<b>+6</b>	<b>73.5</b>	<b>8 975</b>	<b>+5</b>	<b>84.0</b>	<b>3 016</b>	<b>+12</b>	<b>75.7</b>
<b>- NC controlled</b>	<b>9 846</b>	<b>+7</b>	<b>57.5</b>	<b>7 593</b>	<b>+5</b>	<b>71.0</b>	<b>2 539</b>	<b>+15</b>	<b>63.7</b>
Parts and accessories	3 032	+10	17.7	1 711	+3	16.0	967	+13	24.3
Installation, repair/maintenance (only production)	1 506	+4	8.8						
<b>Machine tools total</b>	<b>17 110</b>	<b>+7</b>	<b>100.0</b>	<b>10 686</b>	<b>+5</b>	<b>100.0</b>	<b>3 983</b>	<b>+12</b>	<b>100.0</b>

## German Machine Tool Trade 2018

	Machines	Parts	Total	% -18/17	% -share
	Mill. EUR	Mill. EUR	Mill. EUR		
<b>Exports</b>	<b>8 975</b>	<b>1 711</b>	<b>10 686</b>	<b>+5</b>	<b>100.0</b>
China	2 086	218	2 304	+6	21.6
USA	1 070	224	1 294	+4	12.1
Italy	520	76	596	+16	5.6
Poland	415	67	481	+12	4.5
Austria	363	92	455	+4	4.3
France	367	76	443	-13	4.1
Czech Republic	316	85	401	+12	3.8
Switzerland	243	151	394	+11	3.7
Mexico	326	45	371	-10	3.5
Spain	275	35	309	+26	2.9
Russian Fed.	246	32	278	+8	2.6
United Kingdom	216	56	272	-16	2.5
Netherlands	161	95	256	+2	2.4
India	193	32	225	+2	2.1
Hungary	167	39	206	+4	1.9
Japan	159	31	190	+1	1.8
Turkey	158	29	186	-5	1.7
Sweden	144	30	174	-4	1.6
Rep. of Korea	133	21	154	-3	1.4
Slovakia	110	34	144	+6	1.3
<b>Imports</b>	<b>3 016</b>	<b>967</b>	<b>3 983</b>	<b>+12</b>	<b>100.0</b>
Switzerland	1017	147	1 164	+13	29.2
Japan	363	56	419	+4	10.5
Italy	204	117	321	+4	8.1
Czech Republic	175	70	244	+12	6.1
Rep. of Korea	192	8	200	+31	5.0
Austria	129	66	195	+7	4.9
China	122	49	172	+23	4.3
USA	101	43	143	-3	3.6
Taiwan	115	12	128	+9	3.2
Netherlands	79	42	121	+37	3.0

\* Production and trade figures are not comparable in all positions.  
Trade figures include used and complete overhauled machines.