

# 2017

## CAPITAL SPENDING SURVEY



# MACHINE TOOLS EXECUTIVE SUMMARY

PRESENTED ANNUALLY BY



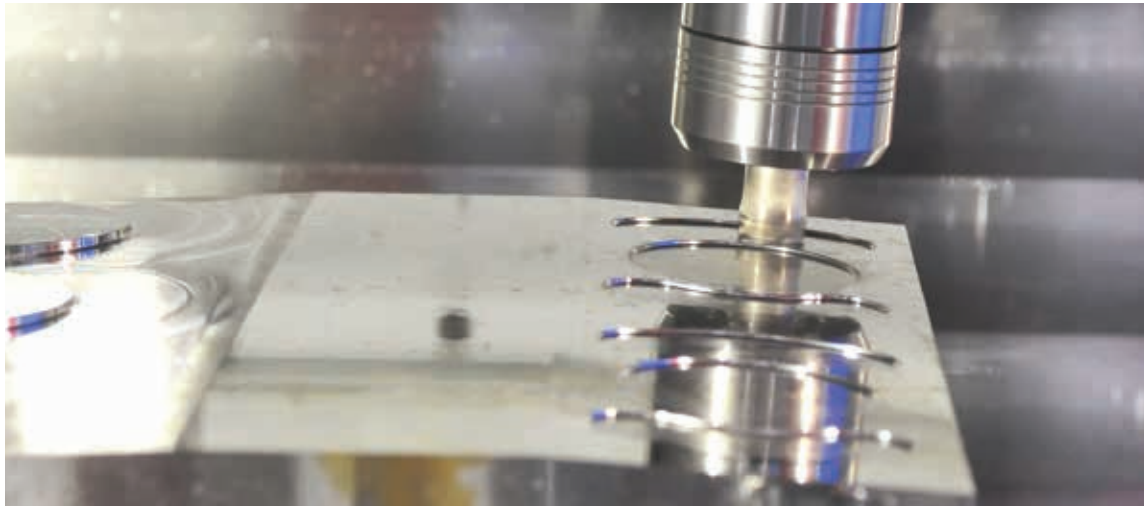
[www.gardnerweb.com](http://www.gardnerweb.com)

# \$6.702 Billion

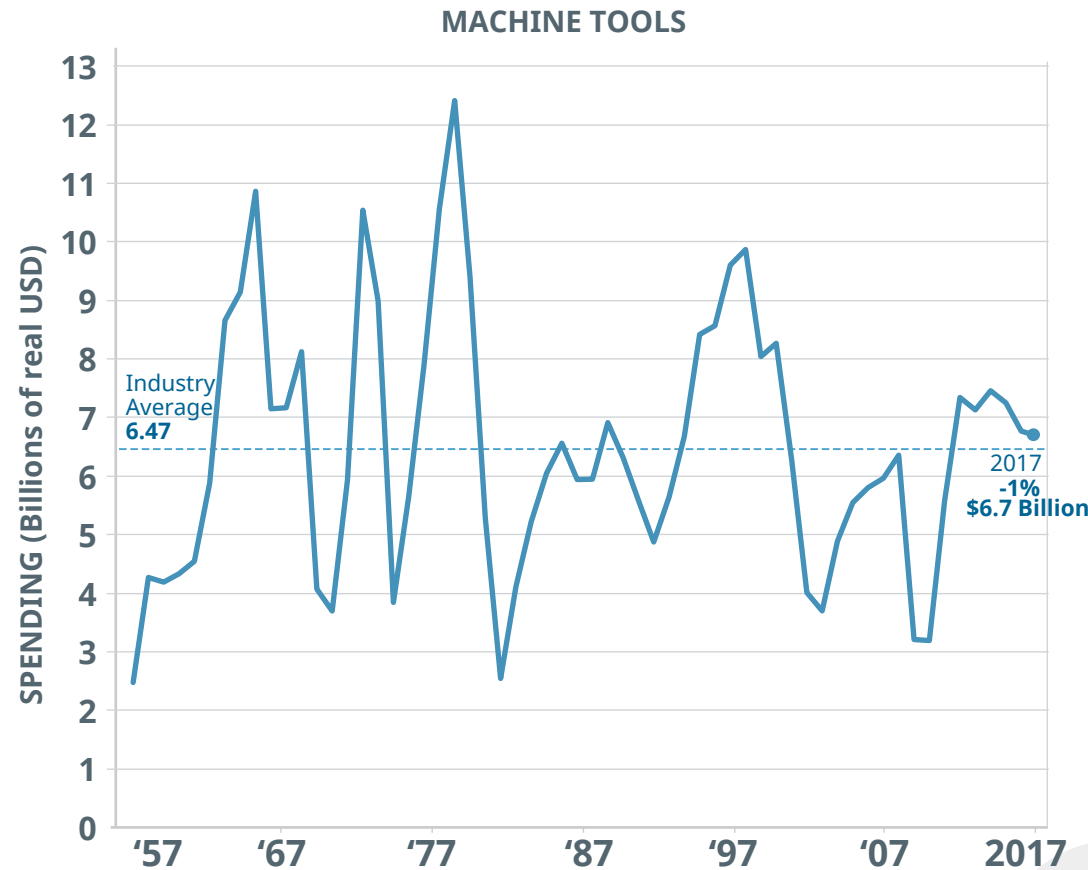
According to the 2017 Metalworking Capital Spending Survey by Gardner Business Intelligence, U.S. metalworking facilities will spend \$6.7 billion on new metalcutting equipment, a decrease of 1% compared to our latest estimate for 2016.

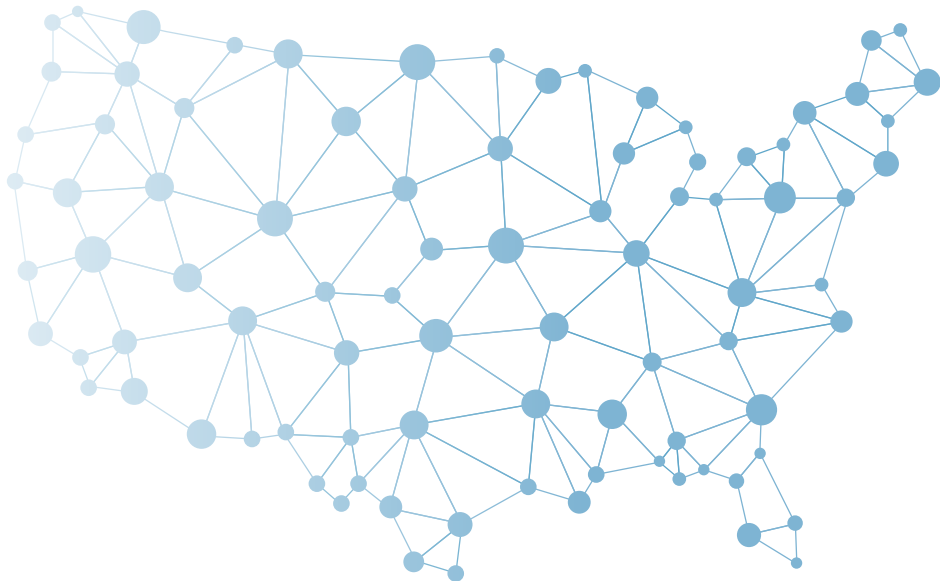
## Machine Tool Spending

2012	\$7.425
2013	\$6.462
2014	\$7.143
2015	\$7.281
2016	\$6.778
2017	\$6.702



Capital equipment spending projected to be above average in 2017 equals a competitive market.





GROWTH BY REGION

Region	2017 Spending	Change %
North Central-East	\$1,955,543,450	+61%
North Central-West	\$1,527,398,633	-18%
Northeast	\$1,213,430,532	-9%
West	\$881,975,639	-21%
Southeast	\$590,639,836	+39%
South Central	\$532,781,193	+37%
Grand Total	\$6,701,769,282	-1%

North-Central - East

IN, KY, MI, OH, TN

North Central - West

IA, IL, KS, MN, MO, ND, NE, SD, WI

Northeast

CT, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT, WV

Southeast

AL, DC, FL, GA, MS, NC, SC, VA

South Central

AR, LA, NM, OK, TX

West

AK, AZ, CA, CO, HI, ID, NV, OR, UT, WA, WY

PLANT SIZE

Plant Size (Number Of Employees)	2017 Spending	Change %
1-19	\$1,145,361,430	+15%
20-49	\$746,366,621	-9%
50-99	\$862,858,771	-7%
100-249	\$1,560,810,846	+6%
250+	\$2,386,371,613	-7%
Grand Total	\$6,701,769,282	-1





Industries*	2017 Spending	% Change
Job Shops	\$2,210,024,253	+77%
Automotive	\$804,264,149	-2%
Machinery	\$590,770,587	-35%
Aerospace	\$485,228,092	-23%
Primary Metals	\$395,803,158	+210%
Forming/Fabricating	\$332,120,102	-28%
Electronics	\$235,888,216	-28%
Medical	\$196,309,677	-21%
Non-Manufacturing	\$195,726,474	+16%
Off-Road/Construction	\$167,769,088	+66%
Other Manufacturing	\$148,345,183	-53%
Pumps/Valves/Plumbing	\$142,548,375	+17%
Ship Building	\$142,085,897	+3,033%
Military	\$132,378,322	+101%
Motors/Hydraulics/ Mechanicals	\$105,849,687	-80%
Oil/Gas/Mining	\$101,828,823	+47%
<b>Grand Total</b>	<b>\$6,386,940,083</b>	<b>+4%</b>

\*only industries with > \$100 million in projected spending

Machine Type	2017 Spending	% Change
<b>MACHINING CENTERS</b>		
HMC-400-800 mm Pallet	\$1,037,973,310	+123%
HMC-<400 mm Pallet	\$215,775,182	-40%
HMC->800 mm Pallet	\$316,504,247	+58%
VMC-<20 in. Y	\$662,965,521	-2%
VMC->20 in. Y	\$906,286,177	+8%
<b>LATHES</b>		
Lathe-<10 in. Chuck	\$493,929,065	+7%
Lathe->10 in. Chuck	\$425,610,423	+19%
Lathe-Manual	\$26,394,177	-79%
Lathe-Vertical	\$7,911,702	-76%
Multi-Spindle Cam	\$12,388,069	-43%
Multi-Spindle CNC	\$55,087,754	+121%
<b>GRINDING</b>		
Grinder, Centerless	\$68,102,305	+42%
Grinder, Creep Feed	\$33,084,103	+1,546%
Grinder, Cylindrical	\$67,282,283	-61%
Grinder-Flat/Surface	\$137,221,742	+24%
Grinder-ID/OD	\$66,403,590	-13%
Grinder-Internal	\$39,863,254	+13%
Grinder-Other	\$106,244,700	-52%
<b>TURNING CENTERS</b>		
TC-<10 in. Chuck	\$99,221,972	+6%
TC->10 in. chuck	\$53,249,421	-3%
TC-Vertical	\$29,530,125	+130%
<b>SCREW MACHINES</b>		
Single-Spindle Cam	\$109,230	-98%
Single-Spindle CNC	\$20,116,553	+627%
Swiss-Type Automatic	\$20,761,633	-38%
Swiss-Type CNC	\$43,880,700	-63%
<b>EDM</b>		
EDM, Ram	\$55,056,805	+75%
EDM, Small Hole	\$7,627,978	+1%
EDM, Wire	\$138,858,046	-1%
<b>OTHER</b>		
Boring Machines	\$114,536,534	-9%
Broaches	\$53,845,623	+61%
Drills	\$546,264,947	+465%
Gearcutting	\$101,857,091	-83%
Laser Cutters	\$397,560,686	-52%
Rotary Transfers	\$7,535,282	-88%
Saws	\$155,867,125	-26%
Transfer/Special Purpose	\$144,656,203	+53%
Waterjets	\$32,205,723	+103%
<b>Grand Total</b>	<b>\$6,701,769,282</b>	<b>-1%</b>

## MACHINE TOOLS EXECUTIVE SUMMARY

### Methodology

The Gardner Business Intelligence 2017 Capital Spending Survey for machine tools was sent to 28,000 subscribers of *Modern Machine Shop*, *Production Machining*, *Moldmaking Technology* and *Automotive Design & Production* magazines. Surveys were mailed in mid-July, and the survey period was closed in mid-August. Respondents were asked to answer detailed questions about their budgeted spending on machine tools, testing equipment, software and more. The responses are projected across the metalworking industry based on plant size. The survey has an error factor of +/- \$1,000,000 at a 95% confidence level for the total machine tool spending projection.



Forecasting | Modeling | Benchmarking | Consulting | Speaking

### Staff

#### STEVE KLINE, JR.

Director of Market Intelligence  
skline2@gardnerweb.com

#### A.C. MICHAEL GUCKES

Senior Economist  
mguckes@gardnerweb.com

#### JAN SCHAFFER

Senior Manager of Market Knowledge and Insights  
jschafer@gardnerweb.com

[View these and other Gardner Business Intelligence reports at Gardnerweb.com](#)

Capital Spending Survey for Tooling and Workholding  
World Machine Tool Survey  
Capital Spending Survey for Plastics Processing  
Media Usage in Manufacturing Facilities  
Gardner Business Index  
Top Shops Benchmarking Survey

PRESENTED FOR THE  
Gardner Metalworking Group



Travis Egan, Publisher  
tegan@gardnerweb.com



Joe Campise, Publisher  
jcampise@gardnerweb.com



Ryan Delahanty, Publisher  
rdelahanty@gardnerweb.com



Mike Vohland, Publisher  
mvohland@gardnerweb.com



Travis Egan, Publisher  
tegan@gardnerweb.com



Travis Egan, Publisher  
tegan@gardnerweb.com



**Gardner Business Media  
Corporate Offices**

6915 Valley Avenue  
Cincinnati, OH 45244  
P 513-527-8800 F 513-527-8801