

2013 CAPITAL SPENDING

Workholding, Industry Trend Report



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DOLLARS

1. All figures reported are in 2012 real dollars and for new equipment only.
2. For 2008, 2009, and 2010, total level figures are actual as reported by the U.S. Census Bureau.
3. For 2011 and 2012, total level figures are estimated based on actual data from 2010 and percent changes in USMTO (as reported by AMT) for 2011 and 2012.
4. For 2008 through 2012, figures reported below the total level are estimated based on the actual total for that year and proportions forecasted by the Capital Spending Survey in that year.
5. For 2013, reported figures are from the Capital Spending Survey.

REGIONS

East North Central – IL, IN, MI, OH, WI

East South Central – AL, KY, MS, TN

Middle Atlantic – NY, PA

Mountain – AZ, CO, ID, MT, NM, NV, UT, WY

New England – CT, MA, ME, NH, RI, VT

Pacific – AK, CA, HI, OR, WA

South Atlantic – DE, FL, GA, MD, NC, NJ, SC, VA, WV

West North Central – IA, KS, MN, MO, ND, NE, SD

West South Central – AR, LA, OK, TX

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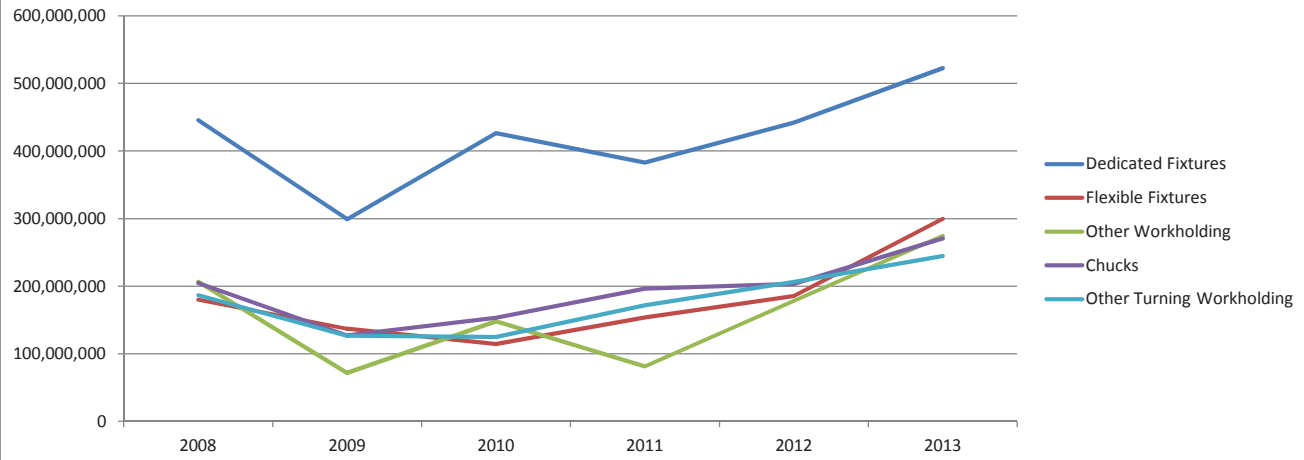
2013

CAPITAL SPENDING Workholding, Industry Trend Report

Total Industry

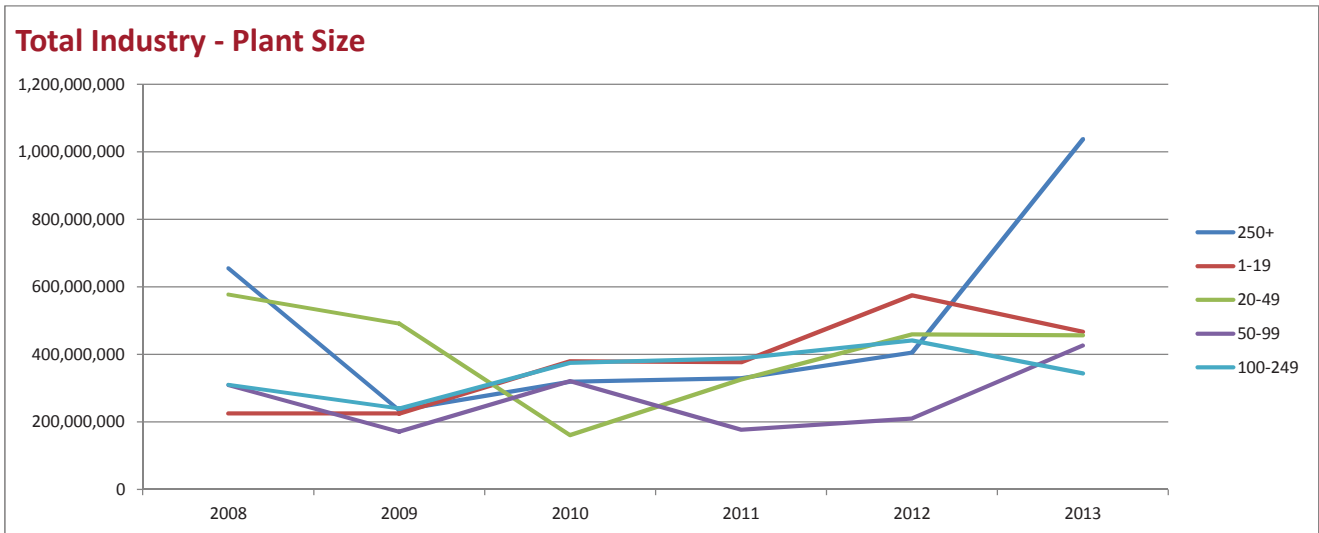
Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	445,543,152	299,123,663	426,655,362	382,706,025	442,128,924	522,529,521
Flexible Fixtures	180,154,483	136,876,006	114,102,661	153,811,987	185,158,224	299,454,095
Other Workholding	206,558,491	71,689,644	147,865,810	81,190,280	178,054,848	274,344,315
Chucks	204,538,038	126,889,675	153,374,339	196,245,358	203,473,763	270,556,243
Other Turning Workholding	186,327,822	126,626,374	124,908,150	171,414,725	206,271,621	244,622,201
EDM Tooling	55,158,445	44,501,557	45,217,249	51,481,774	67,711,553	174,399,029
Other Milling/Drilling Processes (in. robots)	134,532,901	57,733,457	61,813,573	73,681,990	260,683,281	138,664,591
Other Grinding Workholding	121,883,778	83,010,833	107,659,690	83,106,060	103,443,120	138,606,620
Other Turning Work Load/Unload Devices (in. robots)	129,976,840	59,008,622	67,017,655	93,191,346	71,667,305	133,982,074
Indexing Devices	81,808,300	91,639,182	81,032,820	75,130,095	107,523,245	111,924,030
Bar Feeders	66,220,841	42,845,389	49,309,259	44,748,536	72,242,798	110,982,783
Pallets and Pallet-Handling Devices	108,614,941	57,526,732	39,006,361	55,642,290	52,402,258	93,050,120
Automated Systems and Transfer Lines	82,875,476	67,692,195	55,504,397	55,961,073	62,024,609	79,267,342
Grinding Work Load/Unload Devices	47,575,690	58,992,349	36,296,367	28,837,617	37,380,218	68,766,622
Rotating Chucks	22,531,320	35,769,291	43,871,742	49,291,330	39,888,126	68,615,492
Workholding	2,074,300,520	1,359,924,970	1,553,635,434	1,596,440,485	2,090,053,892	2,729,765,074

Total Industry - Workholding



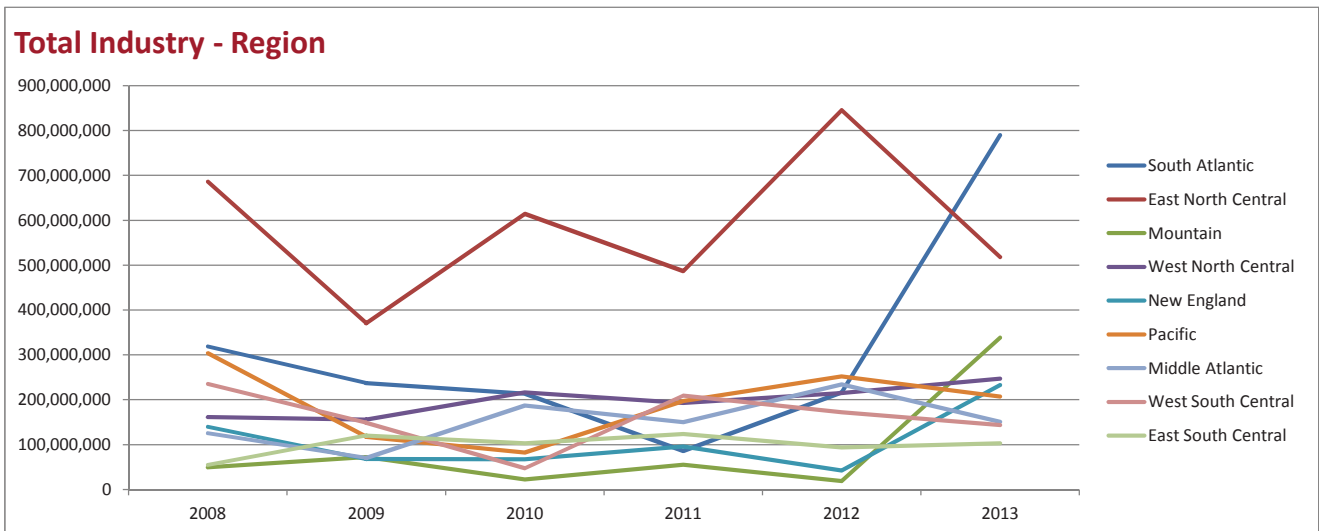
**2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
TOTAL INDUSTRY**

Plant Size	2008	2009	2010	2011	2012	2013
250+	654,689,062	234,348,571	318,872,084	329,280,113	405,314,226	1,037,330,724
1-19	224,276,699	224,145,959	378,984,913	376,677,223	574,928,607	466,487,858
20-49	576,783,789	491,235,005	160,711,581	325,587,145	458,778,847	456,638,415
50-99	309,194,511	170,595,901	320,534,233	176,642,058	210,135,744	425,496,875
100-249	309,356,460	239,599,533	374,532,623	388,253,945	440,896,468	343,811,202
All	2,074,300,520	1,359,924,970	1,553,635,434	1,596,440,485	2,090,053,892	2,729,765,074



Total Industry

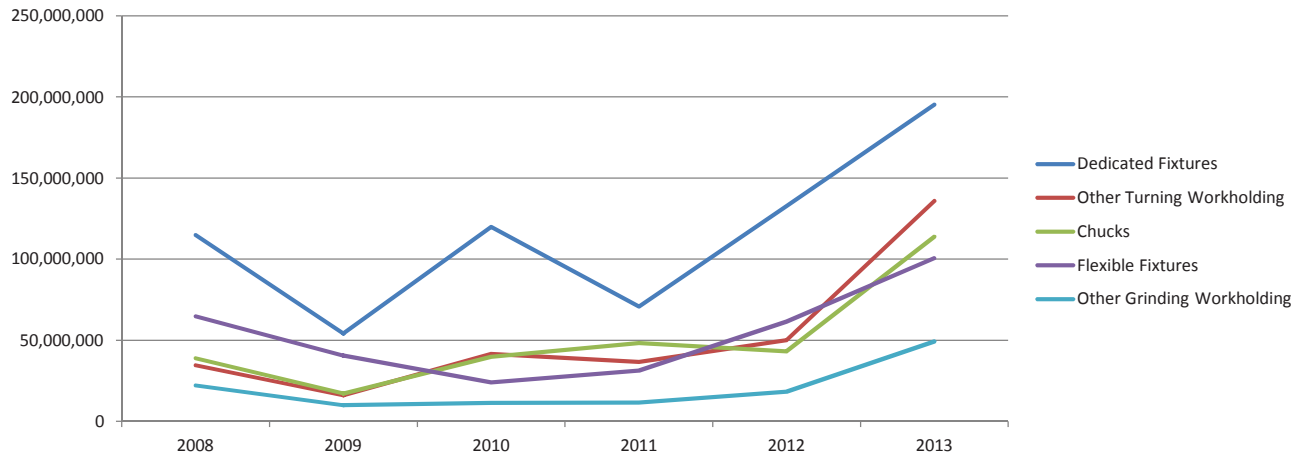
Region	2008	2009	2010	2011	2012	2013
South Atlantic	318,897,321	237,215,232	213,815,325	85,772,630	216,245,662	790,025,654
East North Central	686,074,610	370,510,793	614,290,803	486,935,706	845,135,916	517,935,225
Mountain	49,001,018	72,087,706	22,206,458	55,512,452	18,716,649	338,102,749
West North Central	161,338,027	155,413,247	216,348,323	192,504,190	215,280,862	246,891,203
New England	139,414,574	67,946,440	67,476,835	95,834,385	42,174,353	232,589,258
Pacific	303,946,721	117,488,345	82,229,770	197,260,224	252,119,733	207,246,809
Middle Atlantic	125,539,479	70,304,104	187,132,132	150,061,019	234,319,308	150,706,872
West South Central	235,343,876	148,616,501	47,132,910	209,167,248	172,102,423	143,318,595
East South Central	54,744,894	120,342,602	103,002,878	123,392,631	93,958,986	102,948,710
All	2,074,300,520	1,359,924,970	1,553,635,434	1,596,440,485	2,090,053,892	2,729,765,074



Metalcutting Job Shops

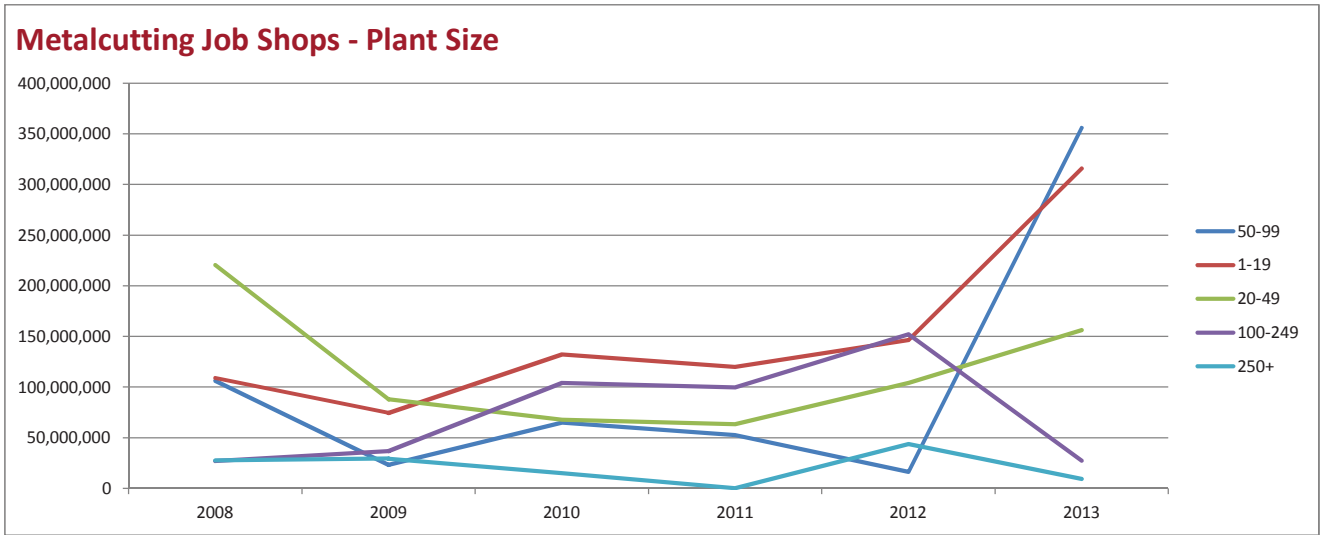
Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	114,893,124	54,060,020	119,801,584	70,702,498	132,607,638	195,215,635
Other Turning Workholding	34,562,595	15,962,620	41,557,442	36,671,837	49,941,647	135,825,964
Chucks	38,878,752	17,074,984	39,773,766	48,163,119	43,114,876	113,746,888
Flexible Fixtures	64,760,401	40,466,593	24,001,022	31,316,758	61,410,012	100,517,609
Other Grinding Workholding	22,002,619	9,930,194	11,287,749	11,601,193	18,314,681	49,195,005
Other Turning Work Load/Unload Devices (in. robots)	40,750,409	14,706,181	15,981,702	39,508,888	19,636,598	48,576,966
Other Milling/Drilling Processes (in. robots)	34,571,235	11,754,003	9,368,669	26,673,820	26,655,655	41,374,072
Bar Feeders	19,404,760	17,536,510	26,251,320	3,697,901	9,210,401	35,852,639
Indexing Devices	28,719,260	13,126,721	34,793,027	14,435,073	26,223,542	30,738,990
EDM Tooling	14,995,425	7,347,904	14,271,821	4,505,567	21,283,200	24,609,653
Rotating Chucks	3,678,386	1,537,035	4,505,814	4,090,626	6,430,264	21,278,999
Pallets and Pallet-Handling Devices	19,643,581	28,389,036	16,408,732	20,310,991	10,210,224	20,452,846
Other Workholding	27,112,631	6,965,406	11,453,028	6,934,308	24,289,458	16,765,624
Automated Systems and Transfer Lines	20,622,822	10,498,211	9,078,980	13,029,580	7,415,003	16,406,296
Grinding Work Load/Unload Devices	5,116,143	1,891,617	5,324,205	3,711,403	5,933,304	13,523,147
Workholding	489,712,142	251,247,034	383,858,859	335,353,561	462,676,501	864,080,331

Metalcutting Job Shops - Workholding



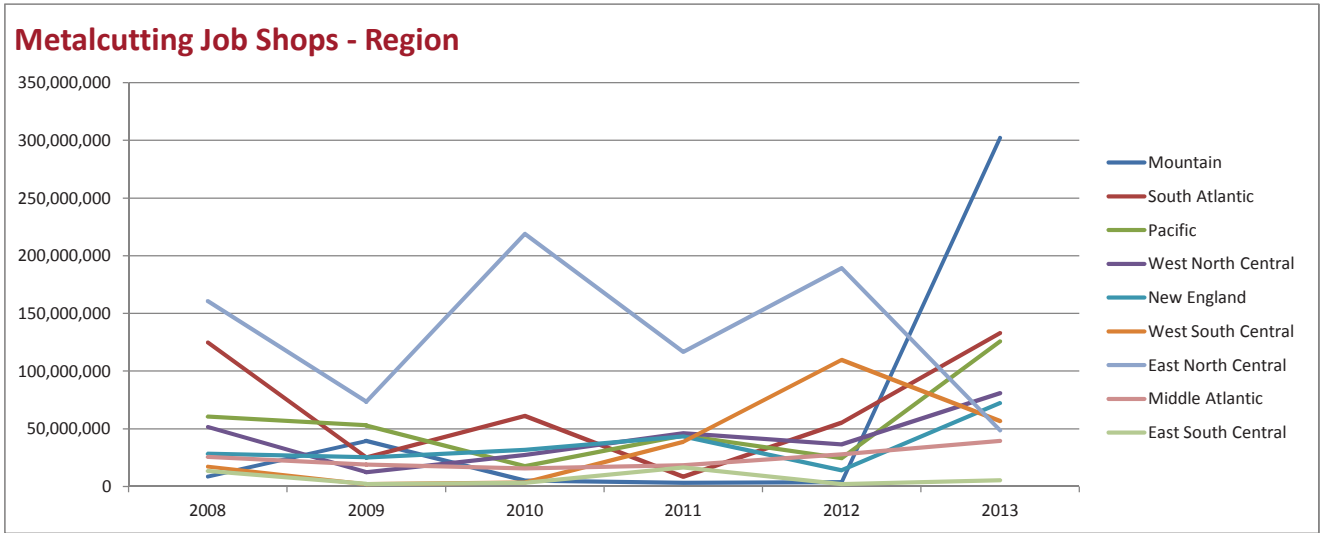
2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
METALCUTTING JOB SHOPS

Plant Size	2008	2009	2010	2011	2012	2013
50-99	106,056,165	23,015,176	64,992,189	52,410,281	16,332,826	355,787,813
1-19	108,968,361	74,442,636	132,194,058	119,782,338	146,298,797	315,801,608
20-49	220,355,778	87,817,287	67,697,976	63,438,183	104,120,022	156,069,750
100-249	26,826,507	36,700,317	104,143,376	99,722,760	152,156,511	27,324,732
250+	27,505,332	29,271,618	14,831,260	0	43,768,344	9,096,429
All	489,712,142	251,247,034	383,858,859	335,353,561	462,676,501	864,080,331



Metalcutting Job Shops

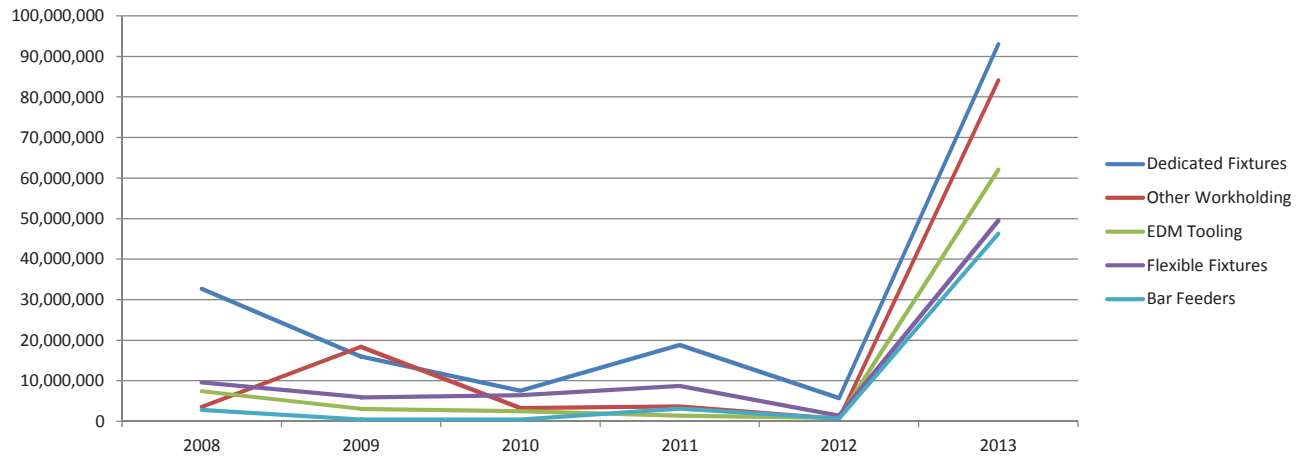
Region	2008	2009	2010	2011	2012	2013
Mountain	8,480,887	39,487,649	5,012,782	3,058,272	3,593,304	302,047,508
South Atlantic	124,810,826	25,077,986	61,041,182	8,448,831	55,334,291	133,037,624
Pacific	60,411,140	52,866,005	17,709,747	44,188,607	24,575,263	125,664,876
West North Central	51,476,361	12,317,252	27,292,282	46,268,347	36,406,663	80,835,461
New England	28,218,111	25,186,510	31,740,641	43,257,725	14,095,478	72,250,669
West South Central	17,038,689	1,908,786	3,418,410	38,738,118	109,529,425	56,757,155
East North Central	160,493,238	73,398,240	218,829,745	116,493,296	189,198,429	48,538,151
Middle Atlantic	25,502,195	18,871,959	15,685,170	18,508,880	27,890,331	39,466,648
East South Central	13,280,696	2,132,647	3,128,898	16,391,486	2,053,316	5,482,239
All	489,712,142	251,247,034	383,858,859	335,353,561	462,676,501	864,080,331



Electronics, Computers, and Telecommunications

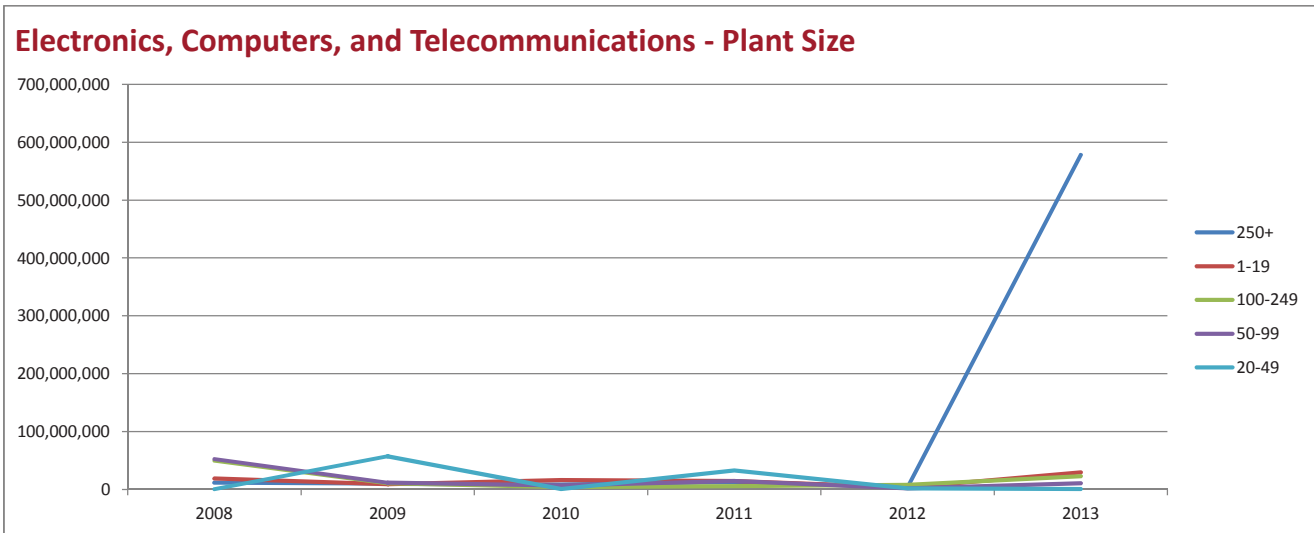
Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	32,653,827	15,950,040	7,531,835	18,791,756	5,737,074	93,008,551
Other Workholding	3,521,230	18,380,522	3,301,196	3,622,274	544,809	84,132,769
EDM Tooling	7,390,902	3,047,851	2,507,042	1,396,971	801,243	62,062,549
Flexible Fixtures	9,539,130	5,883,861	6,394,985	8,723,450	1,394,416	49,508,748
Bar Feeders	2,719,468	401,937	408,195	3,134,180	635,440	46,328,718
Indexing Devices	6,669,491	4,796,746	1,047,556	4,033,530	641,360	39,037,898
Other Grinding Workholding	9,340,646	4,870,936	1,473,541	4,183,038	865,952	36,495,344
Chucks	22,078,741	3,742,877	3,381,560	13,358,444	2,042,160	35,898,529
Other Milling/Drilling Processes (in. robots)	6,287,142	10,412,780	1,350,613	4,354,809	2,130,697	35,479,123
Pallets and Pallet-Handling Devices	3,397,079	2,803,009	311,390	5,678,661	139,684	29,152,925
Automated Systems and Transfer Lines	6,467,657	3,548,400	589,629	1,116,913	914,985	27,652,783
Other Turning Workholding	13,462,753	7,865,349	3,424,807	9,353,894	1,979,863	27,288,023
Rotating Chucks	3,115,742	1,804,800	322,760	911,372	63,584	26,031,679
Grinding Work Load/Unload Devices	2,132,860	5,601,161	1,716,375	508,024	99,843	25,541,541
Other Turning Work Load/Unload Devices (in. robots)	3,582,616	8,672,399	2,571,557	1,599,856	1,113,998	24,506,062
Workholding	132,359,286	97,782,667	36,333,041	80,767,174	19,105,108	642,125,244

Electronics, Computers, and Telecommunications - Workholding



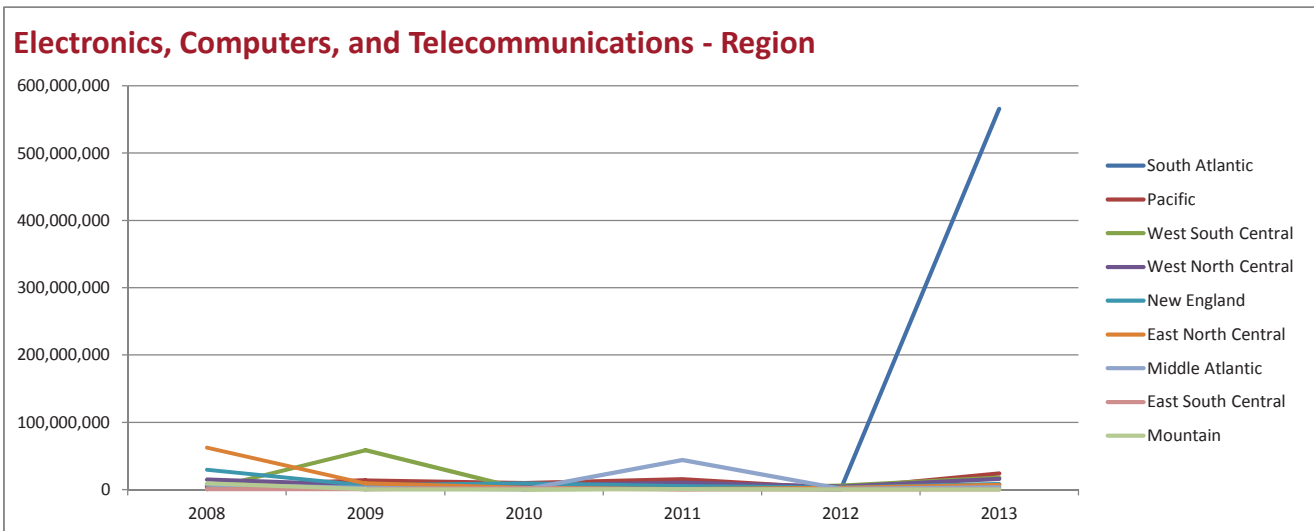
ELECTRONICS, COMPUTERS, and TELECOMMUNICATIONS

Plant Size	2008	2009	2010	2011	2012	2013
250+	11,577,103	9,718,177	8,684,093	13,127,959	3,978,940	578,272,959
1-19	18,623,683	8,725,877	16,309,657	14,781,650	3,593,304	29,177,974
100-249	49,607,746	10,552,311	4,130,332	5,508,495	7,914,181	22,957,254
50-99	52,212,266	11,671,203	6,640,069	14,697,063	1,991,808	10,863,750
20-49	338,488	57,115,099	568,891	32,652,006	1,626,875	853,306
All	132,359,286	97,782,667	36,333,041	80,767,174	19,105,108	642,125,244



Electronics, Computers, and Telecommunications

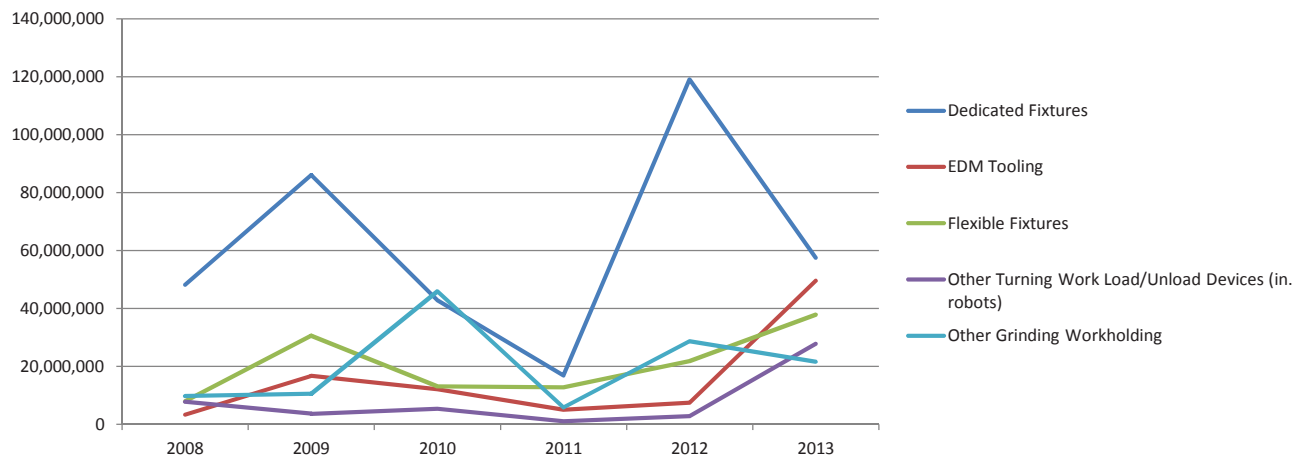
Region	2008	2009	2010	2011	2012	2013
South Atlantic	5,883,516	536,113	5,606,288	3,058,272	382,944	565,726,610
Pacific	3,793,834	13,642,178	9,730,103	15,445,473	1,450,381	23,880,573
West South Central	319,363	58,425,207	201,214	1,529,136	5,914,118	17,877,910
West North Central	14,780,511	6,723,876	6,498,569	10,055,125	4,355,238	16,051,694
New England	29,346,590	6,248,139	9,203,501	4,938,651	2,852,083	8,149,445
East North Central	62,133,966	8,985,726	2,691,240	831,909	2,436,310	7,021,353
Middle Atlantic	6,831,607	2,421,855	392,598	44,076,698	1,331,090	3,331,027
East South Central	233,096	623,943	2,009,528	0	382,944	86,633
Mountain	9,036,802	175,630	0	831,909	0	0
All	132,359,286	97,782,667	36,333,041	80,767,174	19,105,108	642,125,244



Machinery and Equipment Manufacturing

Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	48,148,230	86,039,730	42,829,016	16,872,546	119,092,155	57,465,446
EDM Tooling	3,350,620	16,714,216	12,107,865	4,995,057	7,487,391	49,603,482
Flexible Fixtures	7,990,930	30,585,823	13,125,695	12,751,922	21,813,646	37,878,006
Other Turning Work Load/Unload Devices (in. robots)	7,728,329	3,612,460	5,348,974	1,014,749	2,778,959	27,748,350
Other Grinding Workholding	9,684,093	10,514,168	45,891,250	5,836,717	28,667,626	21,619,431
Chucks	31,048,000	15,873,486	24,054,906	13,904,884	53,443,778	20,793,736
Other Milling/Drilling Processes (in. robots)	12,890,340	9,926,575	8,442,490	7,082,140	6,559,133	18,863,484
Pallets and Pallet-Handling Devices	10,953,840	2,001,174	2,904,686	888,557	15,801,865	15,145,004
Other Turning Workholding	16,990,212	41,427,774	12,408,443	7,320,478	78,479,534	13,308,939
Other Workholding	8,602,229	10,150,328	18,409,135	3,318,329	8,751,128	11,908,258
Automated Systems and Transfer Lines	3,595,049	26,992,379	3,619,952	4,969,740	16,678,619	9,254,549
Indexing Devices	4,537,202	33,687,622	12,722,951	8,975,876	19,803,083	9,237,211
Bar Feeders	4,702,473	7,255,314	5,909,939	8,208,832	20,987,687	4,627,485
Grinding Work Load/Unload Devices	303,506	21,809,962	3,343,549	1,674,488	1,428,603	4,131,851
Rotating Chucks	3,722,928	6,356,820	3,721,344	3,806,256	8,879,271	3,561,239
Workholding	174,247,981	322,947,832	214,840,195	101,620,570	410,652,477	305,146,474

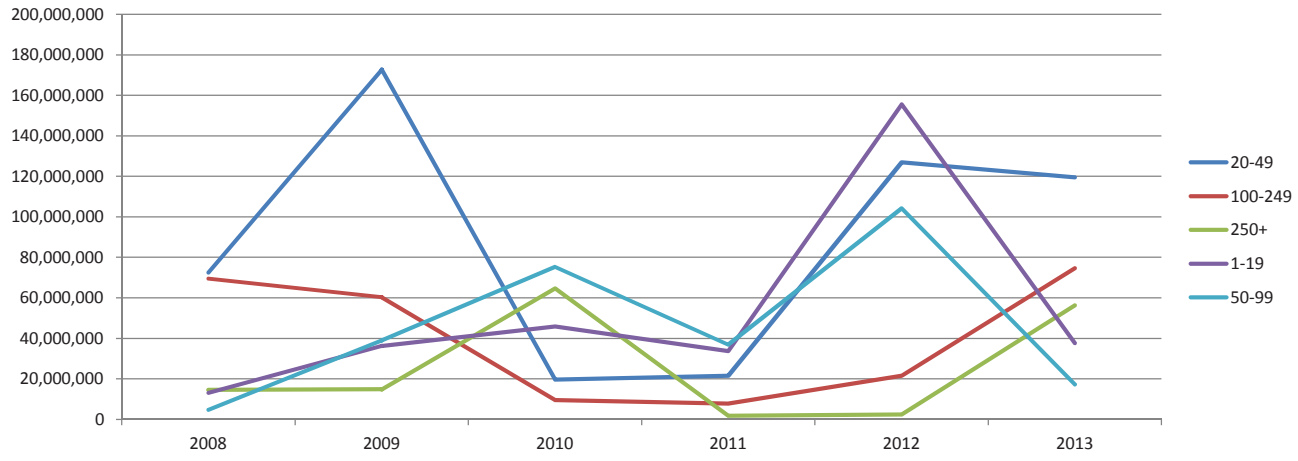
Machinery and Equipment Manufacturing - Workholding



MACHINERY and EQUIPMENT MANUFACTURING

Plant Size	2008	2009	2010	2011	2012	2013
20-49	72,436,462	172,699,806	19,626,724	21,457,033	126,896,277	119,462,903
100-249	69,514,717	60,287,836	9,440,759	7,787,873	21,572,526	74,695,067
250+	14,529,653	14,752,895	64,594,039	1,853,359	2,473,395	56,215,929
1-19	13,076,203	36,266,925	45,924,559	33,640,997	155,538,721	37,571,638
50-99	4,690,946	38,940,369	75,254,114	36,881,309	104,171,558	17,200,938
All	174,247,981	322,947,832	214,840,195	101,620,570	410,652,477	305,146,474

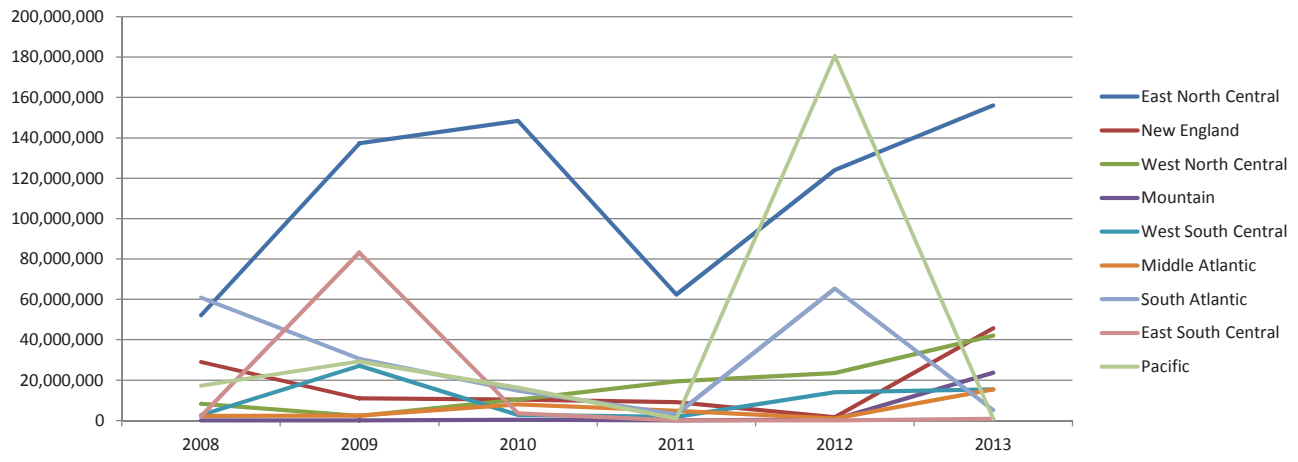
Machinery and Equipment Manufacturing - Plant Size



Machinery and Equipment Manufacturing

Region	2008	2009	2010	2011	2012	2013
East North Central	52,160,522	137,297,666	148,417,578	62,388,318	124,025,094	155,989,221
New England	28,914,598	10,953,207	10,379,038	9,104,624	1,624,201	45,674,763
West North Central	8,245,118	2,224,469	10,363,363	19,376,337	23,553,462	42,077,956
Mountain	0	0	429,201	0	513,329	23,675,956
West South Central	2,661,360	27,156,683	2,790,121	1,865,829	13,942,656	15,417,593
Middle Atlantic	2,137,383	2,422,433	7,969,535	4,807,766	965,069	15,368,259
South Atlantic	60,910,175	30,549,605	14,735,242	3,058,272	65,402,884	5,151,384
East South Central	2,030,929	83,111,010	3,493,633	0	0	905,313
Pacific	17,187,896	29,232,759	16,262,484	1,019,424	180,625,782	886,029
All	174,247,981	322,947,832	214,840,195	101,620,570	410,652,477	305,146,474

Machinery and Equipment Manufacturing - Region



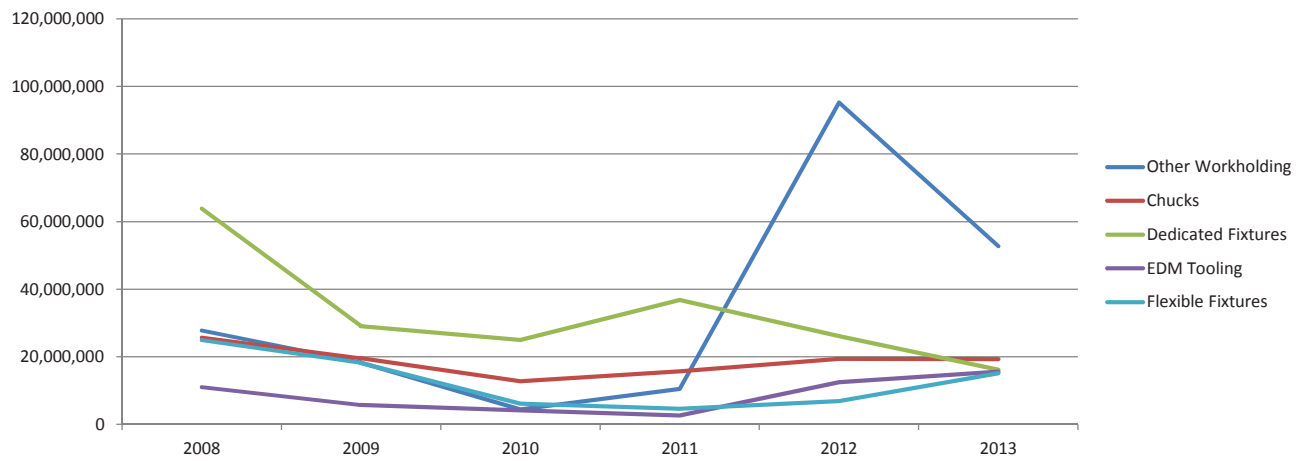
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CAPITAL SPENDING Workholding, Industry Trend Report

Automotive

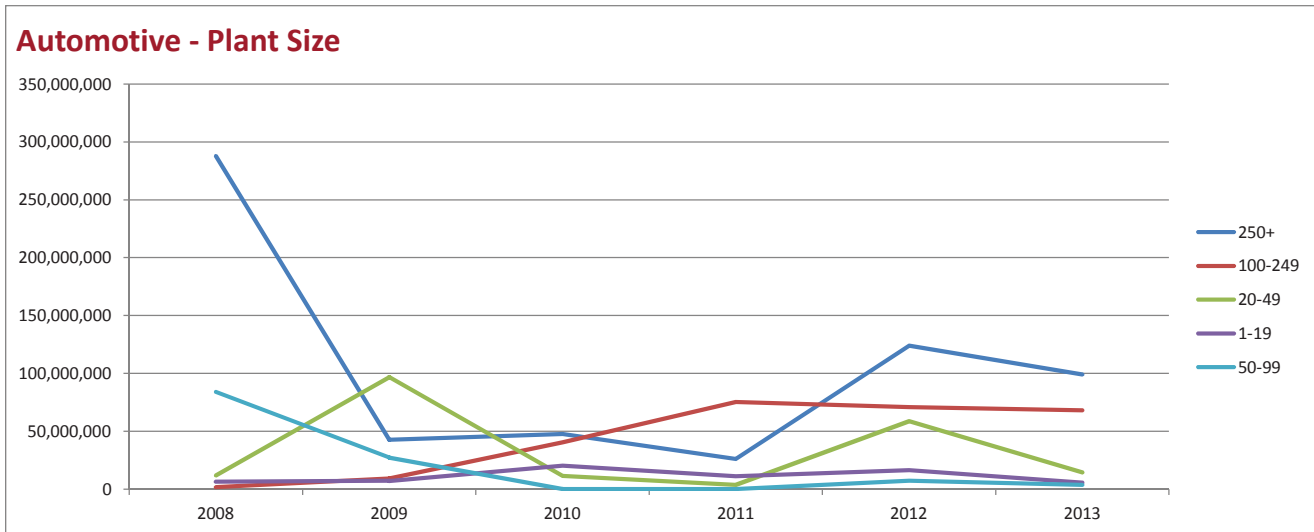
Workholding Type	2008	2009	2010	2011	2012	2013
Other Workholding	27,707,570	18,256,266	4,354,858	10,451,030	95,286,092	52,734,930
Chucks	25,662,360	19,529,388	12,686,808	15,665,293	19,398,829	19,262,201
Dedicated Fixtures	63,836,040	29,063,112	24,949,438	36,762,064	26,069,592	16,103,641
EDM Tooling	10,993,953	5,712,128	4,092,930	2,579,384	12,467,642	15,553,166
Flexible Fixtures	24,880,586	18,139,902	6,075,187	4,594,445	6,816,354	15,070,420
Other Turning Workholding	21,871,292	11,978,627	10,515,934	12,322,138	5,801,470	12,786,254
Other Grinding Workholding	28,434,944	13,230,612	8,682,626	5,218,841	14,007,749	9,267,898
Other Milling/Drilling Processes (in. robots)	30,634,939	7,354,967	4,667,875	1,263,275	23,894,422	8,861,492
Other Turning Work Load/Unload Devices (in. robots)	48,188,434	4,241,938	5,727,098	9,009,703	14,019,310	8,652,783
Indexing Devices	14,256,057	10,795,257	4,939,673	3,831,502	4,796,730	6,091,239
Bar Feeders	9,435,129	4,195,359	2,380,351	3,072,402	6,308,792	6,021,027
Automated Systems and Transfer Lines	15,745,263	10,964,149	9,126,427	4,054,539	10,039,861	5,472,991
Grinding Work Load/Unload Devices	22,663,032	8,124,637	6,859,705	1,104,727	21,402,604	5,359,839
Pallets and Pallet-Handling Devices	45,582,387	9,521,077	4,454,564	361,140	5,249,348	5,246,292
Rotating Chucks	1,716,910	11,874,021	10,218,719	6,165,716	11,335,287	4,546,661
Workholding	391,608,897	182,981,440	119,732,193	116,456,197	276,894,084	191,030,834

Automotive - Workholding



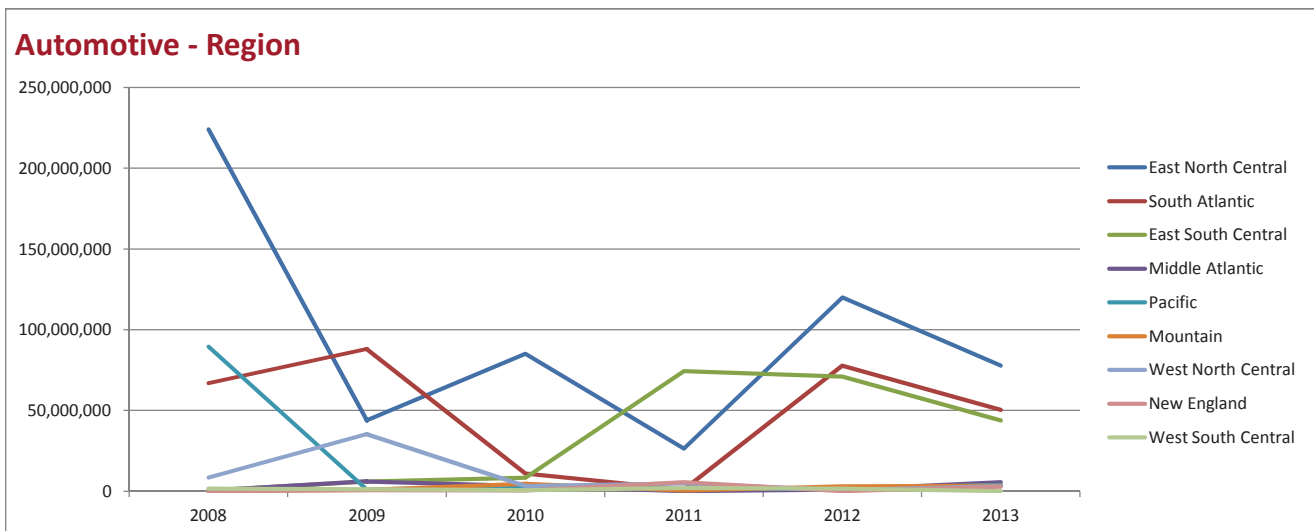
**2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
AUTOMOTIVE**

Plant Size	2008	2009	2010	2011	2012	2013
250+	287,795,904	42,619,475	47,616,150	26,101,472	123,884,847	99,107,755
100-249	1,596,816	9,155,682	40,565,763	75,409,401	70,844,684	68,199,844
20-49	11,847,085	96,847,342	11,377,811	3,731,658	58,567,512	14,506,210
1-19	6,339,977	7,089,775	20,172,470	11,213,666	16,426,532	5,595,776
50-99	84,029,115	27,269,166	0	0	7,170,509	3,621,250
All	391,608,897	182,981,440	119,732,193	116,456,197	276,894,084	191,030,834



Automotive

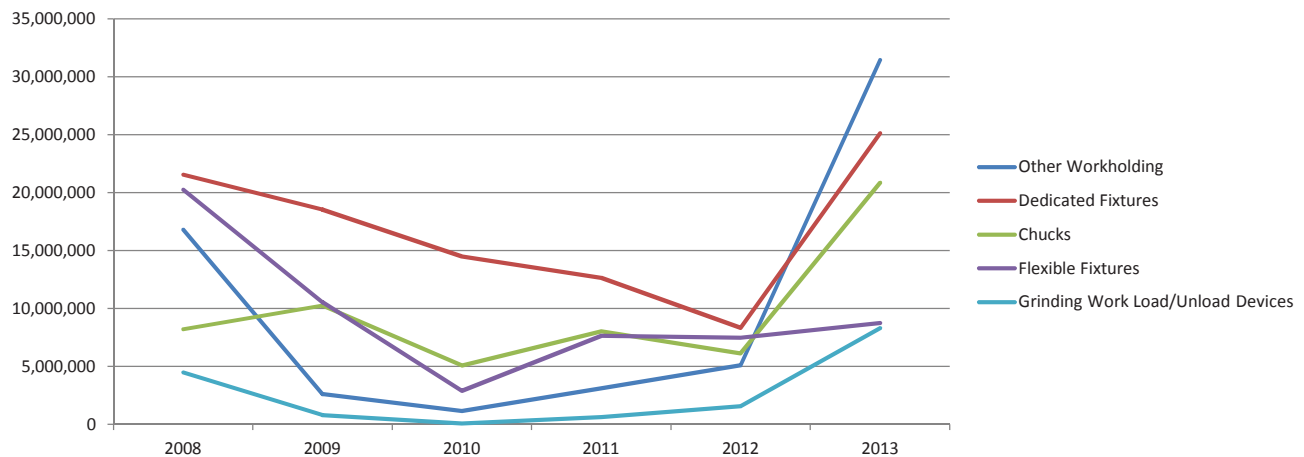
Region	2008	2009	2010	2011	2012	2013
East North Central	224,033,071	43,845,674	85,025,205	26,412,171	119,928,805	77,713,543
South Atlantic	66,906,317	88,061,504	11,066,334	1,139,689	77,675,953	50,403,982
East South Central	466,192	5,946,757	8,430,496	74,320,772	71,082,422	43,803,932
Middle Atlantic	466,192	6,026,845	3,317,519	154,447	1,158,563	5,639,635
Pacific	89,552,526	1,010,910	3,004,410	1,529,136	1,733,486	3,996,983
Mountain	0	818,051	4,721,216	509,712	3,079,975	3,515,334
West North Central	8,568,658	35,426,770	3,155,586	4,787,844	645,234	3,157,761
New England	0	623,943	442,536	5,606,833	0	2,799,665
West South Central	1,615,941	1,220,986	568,891	1,995,593	1,589,647	0
All	391,608,897	182,981,440	119,732,193	116,456,197	276,894,084	191,030,834



Forming and Fabricating (non-auto)

Workholding Type	2008	2009	2010	2011	2012	2013
Other Workholding	16,784,149	2,598,556	1,154,806	3,097,691	5,085,053	31,459,386
Dedicated Fixtures	21,554,621	18,527,580	14,491,632	12,632,460	8,324,822	25,120,527
Chucks	8,199,511	10,243,687	5,064,904	8,028,816	6,128,023	20,845,182
Flexible Fixtures	20,262,153	10,525,908	2,887,822	7,636,717	7,458,758	8,728,248
Grinding Work Load/Unload Devices	4,481,564	785,001	77,152	625,986	1,546,919	8,306,092
EDM Tooling	1,973,584	1,047,656	940,815	7,556,340	1,686,799	7,669,460
Other Milling/Drilling Processes (in. robots)	3,175,770	4,854,073	1,129,309	2,110,515	912,415	7,429,260
Other Turning Work Load/Unload Devices (in. robots)	9,152,857	2,534,489	1,219,577	1,227,707	1,927,335	5,809,892
Bar Feeders	3,198,058	2,326,471	198,000	1,029,265	523,524	4,834,511
Other Turning Workholding	12,476,296	11,886,526	4,439,644	5,296,210	3,033,574	4,157,351
Automated Systems and Transfer Lines	7,401,896	3,290,203	2,752,260	3,131,221	2,777,908	3,671,609
Other Grinding Workholding	6,863,387	4,906,721	2,468,802	4,847,888	6,487,062	3,620,814
Pallets and Pallet-Handling Devices	3,826,919	3,980,488	476,269	1,744,691	1,480,061	3,329,777
Rotating Chucks	2,827,007	2,382,383	335,709	601,907	1,070,927	2,354,214
Indexing Devices	8,162,908	6,294,685	2,146,199	3,311,690	2,577,321	2,014,995
Workholding	130,340,681	86,184,427	39,782,902	62,879,106	51,020,500	139,351,317

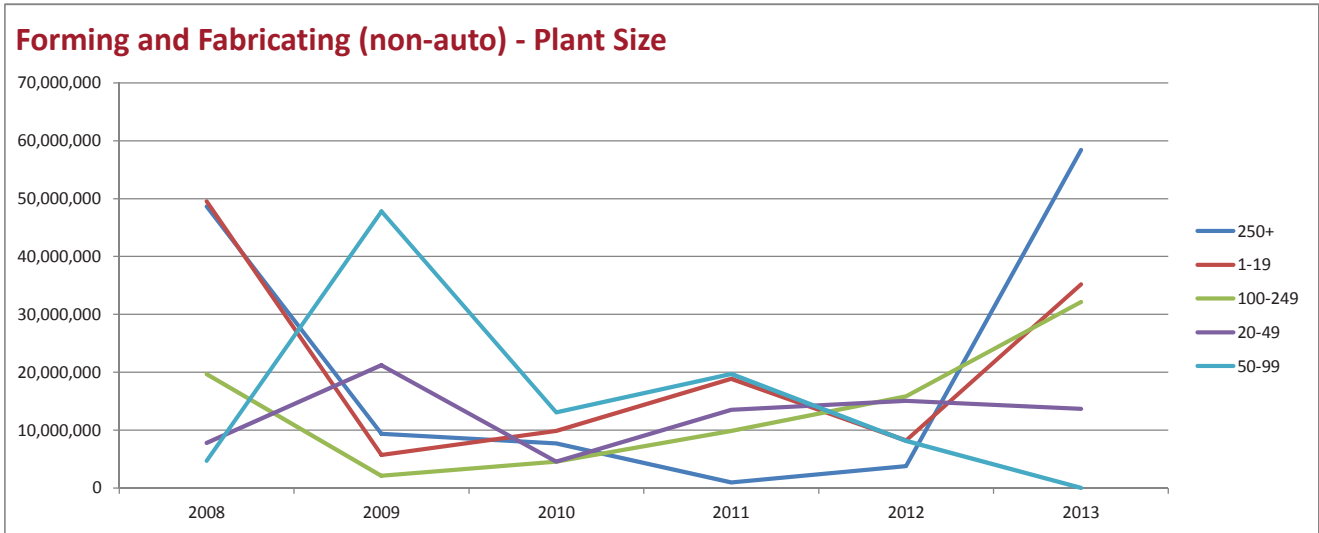
Forming and Fabricating (non-auto) - Workholding



2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT

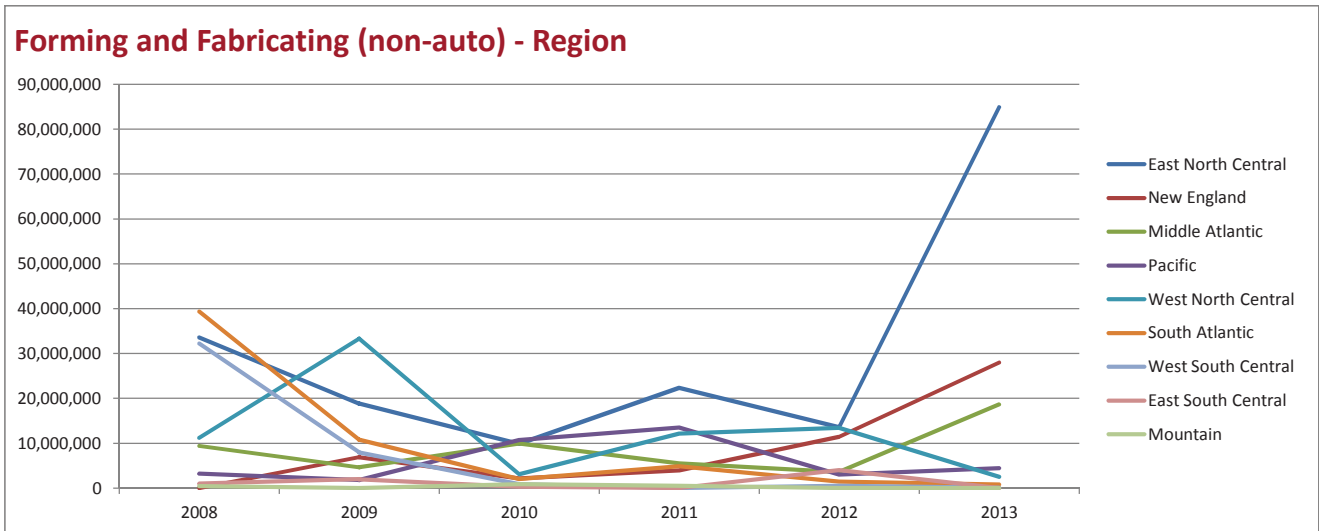
FORMING and FABRICATING (non-auto)

Plant Size	2008	2009	2010	2011	2012	2013
250+	48,639,372	9,366,918	7,708,352	926,679	3,763,863	58,390,408
1-19	49,531,073	5,726,357	9,871,634	18,859,347	8,213,266	35,173,448
100-249	19,694,062	2,094,944	4,572,868	9,877,302	15,828,362	32,134,557
20-49	7,785,227	21,220,630	4,551,124	13,527,260	15,048,597	13,652,903
50-99	4,690,946	47,775,578	13,078,924	19,688,518	8,166,413	0
All	130,340,681	86,184,427	39,782,902	62,879,106	51,020,500	139,351,317



Forming and Fabricating (non-auto)

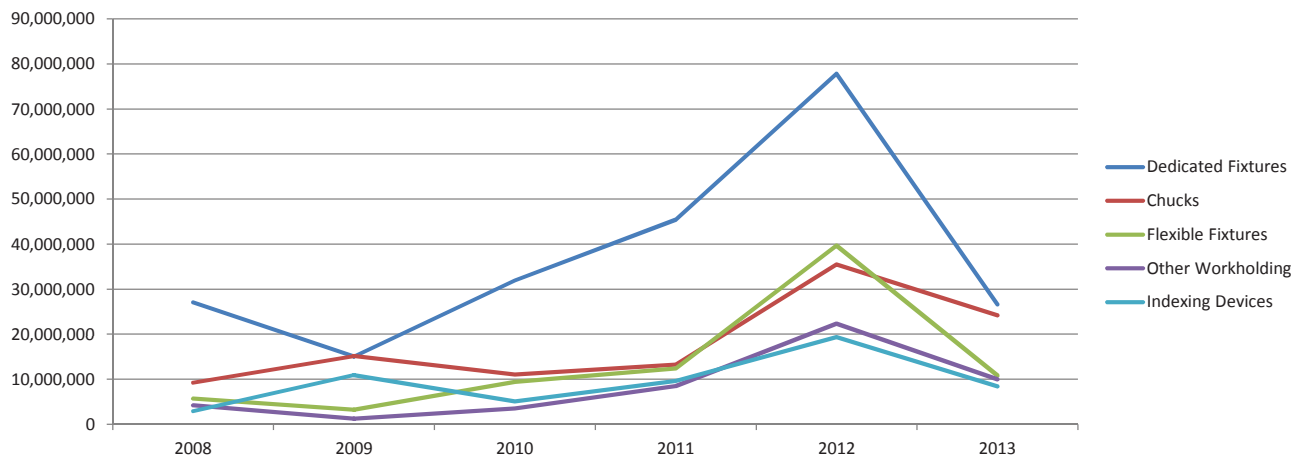
Region	2008	2009	2010	2011	2012	2013
East North Central	33,554,683	18,821,324	9,867,009	22,342,237	13,547,677	84,912,658
New England	0	6,881,040	2,138,534	3,978,569	11,459,869	27,996,652
Middle Atlantic	9,375,290	4,647,071	9,925,856	5,513,178	3,604,981	18,636,013
Pacific	3,201,927	1,799,632	10,691,061	13,477,403	3,046,213	4,429,439
West North Central	11,218,616	33,309,375	3,125,305	12,153,906	13,423,081	2,490,526
South Atlantic	39,327,982	10,780,940	2,030,675	4,904,100	1,433,377	799,397
West South Central	32,250,470	7,966,593	858,403	0	513,329	86,633
East South Central	1,015,464	1,978,451	292,722	0	3,991,973	0
Mountain	396,249	0	853,336	509,712	0	0
All	130,340,681	86,184,427	39,782,902	62,879,106	51,020,500	139,351,317



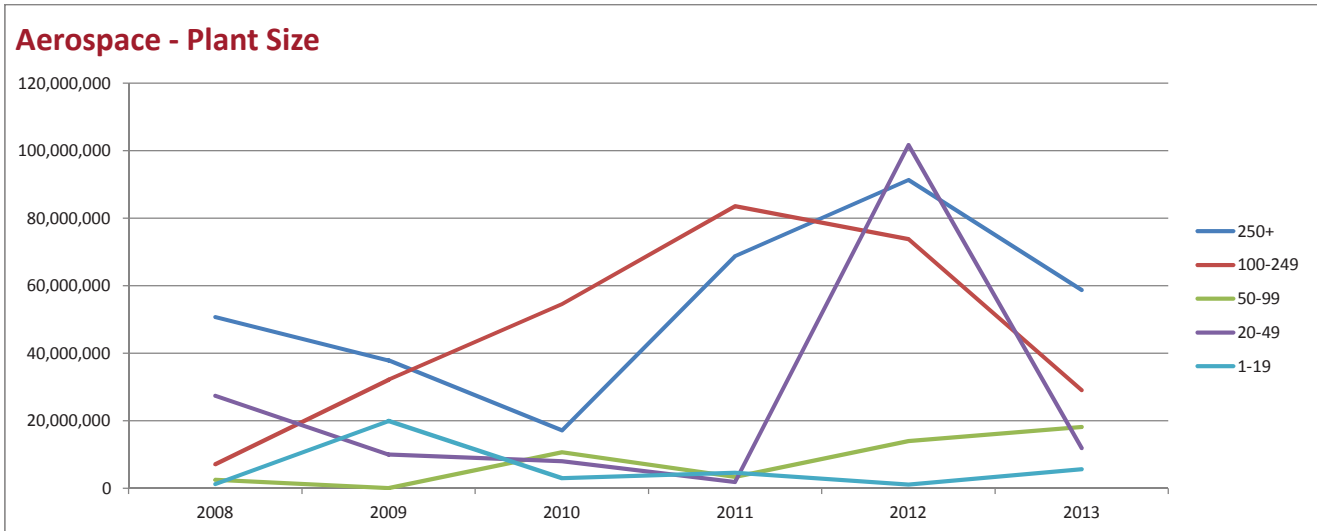
Aerospace

Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	27,060,096	15,019,798	31,914,229	45,457,744	77,827,486	26,584,558
Chucks	9,258,746	15,130,846	11,030,879	13,260,374	35,491,643	24,165,433
Flexible Fixtures	5,707,092	3,204,154	9,373,512	12,361,562	39,688,062	10,854,431
Other Workholding	4,176,051	1,200,202	3,489,766	8,474,681	22,357,675	10,007,105
Indexing Devices	2,898,783	10,927,816	5,053,845	9,600,425	19,323,807	8,441,367
Other Grinding Workholding	18,047,775	17,413,064	5,839,076	16,350,522	8,884,455	8,303,191
Other Turning Workholding	7,871,332	7,306,996	9,845,836	15,906,814	34,337,608	7,297,273
Other Milling/Drilling Processes (in. robots)	1,511,198	2,292,973	411,830	8,589,096	1,928,391	6,367,054
EDM Tooling	3,388,049	2,517,971	300,596	6,269,894	5,078,008	4,636,150
Automated Systems and Transfer Lines	2,438,026	2,384,409	1,893,221	2,231,116	8,764,423	3,683,152
Rotating Chucks	2,936,120	3,051,112	6,063,252	4,157,311	3,880,583	3,448,122
Other Turning Work Load/Unload Devices (in. robots)	641,947	1,089,528	2,208,355	8,244,814	2,323,552	3,302,198
Grinding Work Load/Unload Devices	1,373,159	15,453,880	976,676	2,896,019	738,757	2,928,018
Bar Feeders	647,771	547,817	2,291,754	5,652,838	17,486,909	2,519,709
Pallets and Pallet-Handling Devices	889,573	2,239,808	2,595,258	2,633,564	3,618,809	800,826
Workholding	88,845,717	99,780,373	93,288,084	162,086,774	281,730,165	123,338,588

Aerospace - Workholding

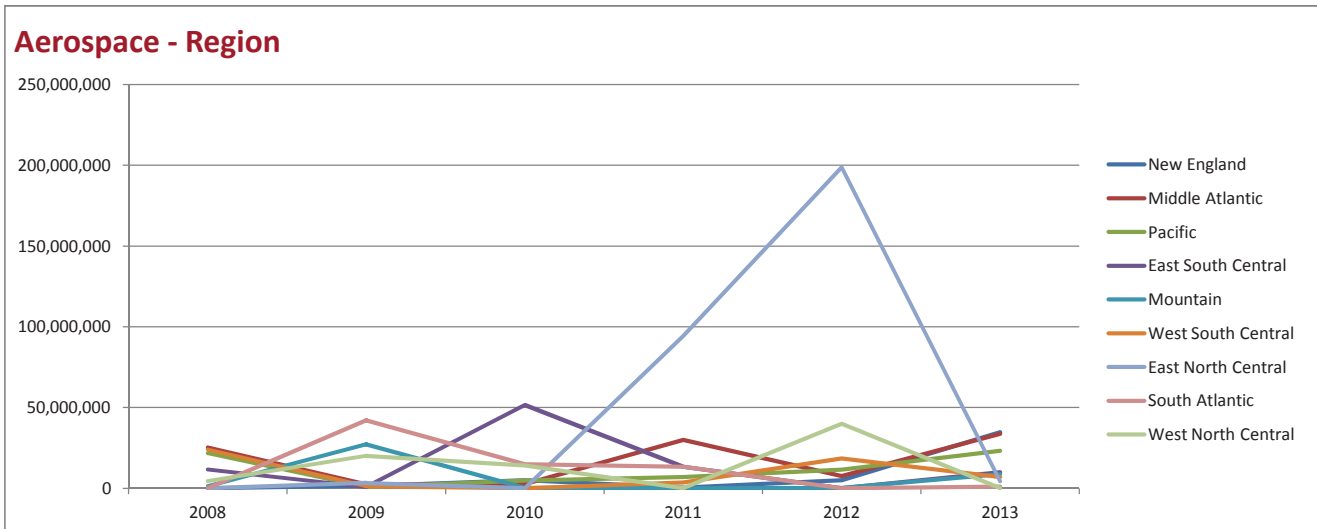


Plant Size	2008	2009	2010	2011	2012	2013
250+	50,659,538	37,818,930	17,075,464	68,728,729	91,300,551	58,736,939
100-249	7,132,444	32,122,476	54,579,390	83,577,170	73,780,590	29,004,531
50-99	2,447,450	0	10,664,353	3,327,637	13,942,656	18,106,250
20-49	27,417,539	9,933,061	7,964,468	1,865,829	101,679,709	11,895,092
1-19	1,188,746	19,905,906	3,004,410	4,587,409	1,026,658	5,595,776
All	88,845,717	99,780,373	93,288,084	162,086,774	281,730,165	123,338,588



Aerospace

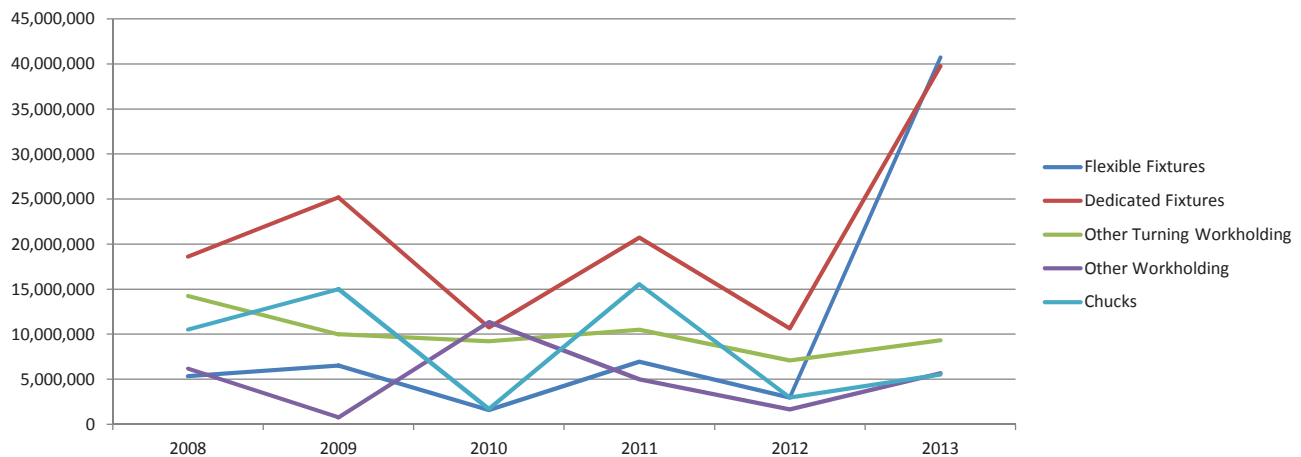
Region	2008	2009	2010	2011	2012	2013
New England	0	1,463,581	5,079,401	509,712	4,981,012	34,653,061
Middle Atlantic	25,391,535	2,540,025	2,575,209	30,021,353	7,527,725	33,791,002
Pacific	21,697,536	818,051	4,818,219	7,066,976	11,623,839	23,304,105
East South Central	11,654,802	853,496	51,629,152	13,296,368	0	10,049,388
Mountain	1,266,444	27,215,226	195,148	0	322,617	8,863,951
West South Central	24,013,533	1,354,508	0	3,560,046	18,537,987	7,017,245
East North Central	0	3,294,271	0	94,335,951	198,820,804	4,524,480
South Atlantic	203,954	42,124,234	14,837,326	13,296,368	0	1,135,356
West North Central	4,617,913	20,116,981	14,153,629	0	39,916,182	0
All	88,845,717	99,780,373	93,288,084	162,086,774	281,730,165	123,338,588



Pumps, Valves, and Plumbing Products

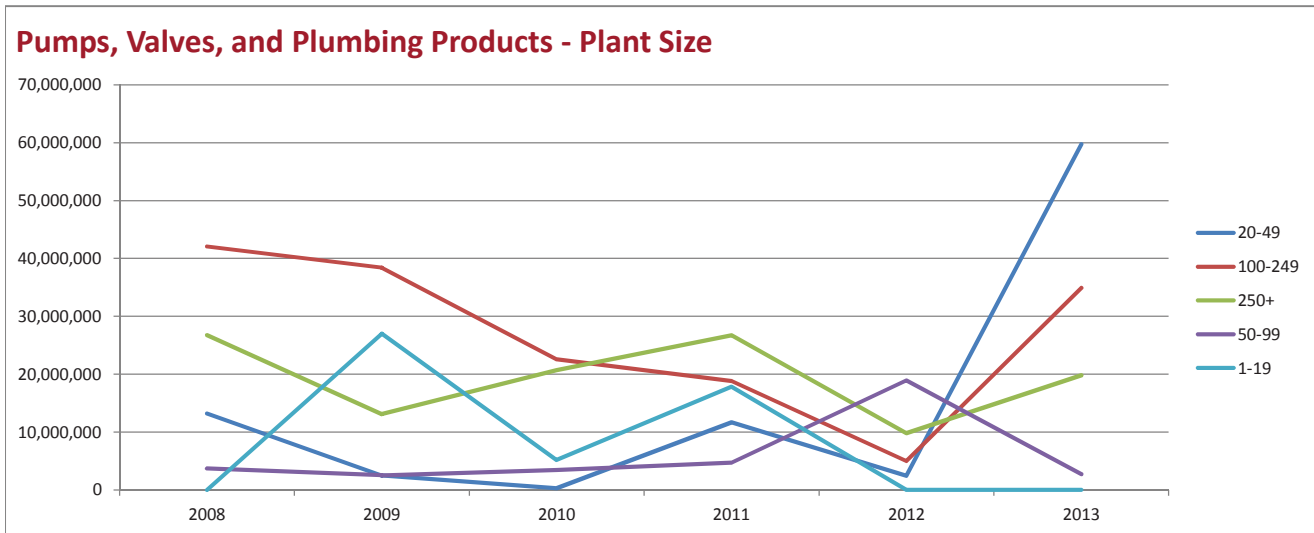
Workholding Type	2008	2009	2010	2011	2012	2013
Flexible Fixtures	5,324,284	6,510,117	1,576,515	6,925,467	2,969,876	40,723,778
Dedicated Fixtures	18,621,362	25,169,752	10,750,957	20,725,327	10,650,371	39,754,742
Other Turning Workholding	14,248,526	9,983,000	9,225,835	10,497,671	7,088,836	9,310,083
Other Workholding	6,168,544	763,770	11,333,229	4,971,098	1,651,957	5,674,896
Chucks	10,501,516	14,990,435	1,692,994	15,527,940	2,966,728	5,513,764
Pallets and Pallet-Handling Devices	4,762,030	1,122,056	241,440	2,964,137	772,995	4,470,732
Other Milling/Drilling Processes (in. robots)	3,909,468	1,044,580	1,620,465	2,985,556	583,075	4,098,313
Rotating Chucks	478,864	3,545,349	25,752	0	37,639	1,463,949
EDM Tooling	1,068,949	1,277,287	0	932,914	497,952	1,399,117
Indexing Devices	2,134,252	2,715,100	4,369,891	2,829,609	914,810	1,198,388
Other Grinding Workholding	2,264,582	2,192,597	1,840,097	1,509,753	1,933,328	1,182,595
Other Turning Work Load/Unload Devices (in. robots)	3,632,919	10,925,848	3,504,071	4,033,877	1,229,380	850,209
Grinding Work Load/Unload Devices	2,452,687	549,504	204,418	1,490,759	326,159	724,988
Bar Feeders	7,810,807	1,675,324	2,885,833	3,257,637	3,271,024	668,756
Automated Systems and Transfer Lines	2,271,251	1,043,983	2,839,028	1,087,883	1,232,677	163,780
Workholding	85,650,042	83,508,703	52,110,524	79,739,628	36,126,807	117,198,091

Pumps, Valves, and Plumbing Products- Workholding



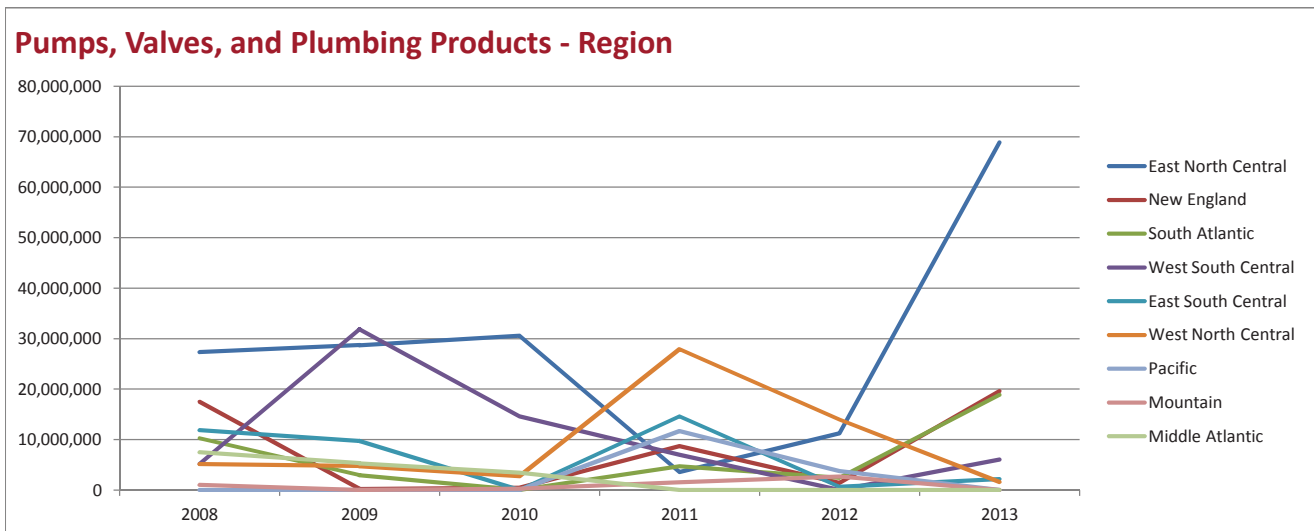
PUMPS, VALVES, and PLUMBING PRODUCTS

Plant Size	2008	2009	2010	2011	2012	2013
20-49	13,201,037	2,483,265	284,445	11,661,431	2,440,313	59,731,452
100-249	42,049,484	38,407,309	22,569,315	18,804,863	4,978,275	34,911,825
250+	26,728,345	13,113,685	20,685,704	26,719,259	9,786,043	19,838,878
50-99	3,671,175	2,508,763	3,420,642	4,714,152	18,922,176	2,715,938
1-19	0	26,995,681	5,150,418	17,839,923	0	0
All	85,650,042	83,508,703	52,110,524	79,739,628	36,126,807	117,198,091



Pumps, Valves, and Plumbing Products

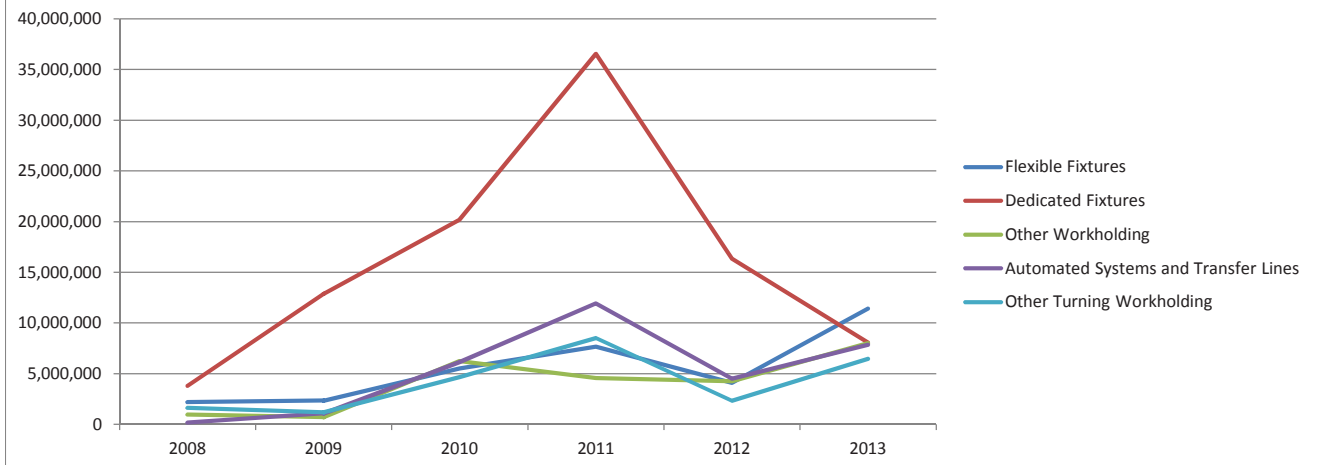
Region	2008	2009	2010	2011	2012	2013
East North Central	27,321,419	28,703,063	30,594,716	3,567,985	11,242,139	68,876,362
New England	17,492,990	232,772	442,536	8,737,613	1,404,129	19,597,656
South Atlantic	10,248,960	2,948,808	0	4,714,152	2,440,313	18,869,092
West South Central	5,167,905	31,854,260	14,636,112	7,017,460	0	6,064,286
East South Central	11,847,085	9,719,600	0	14,596,161	645,234	2,165,816
West North Central	5,104,411	4,742,002	2,732,074	27,915,690	13,942,656	1,624,879
Pacific	0	0	0	11,661,431	3,763,863	0
Mountain	1,015,464	0	284,445	1,529,136	2,688,473	0
Middle Atlantic	7,451,807	5,308,198	3,420,642	0	0	0
All	85,650,042	83,508,703	52,110,524	79,739,628	36,126,807	117,198,091



Industrial Motors, Hydraulic, and Mechanical Components

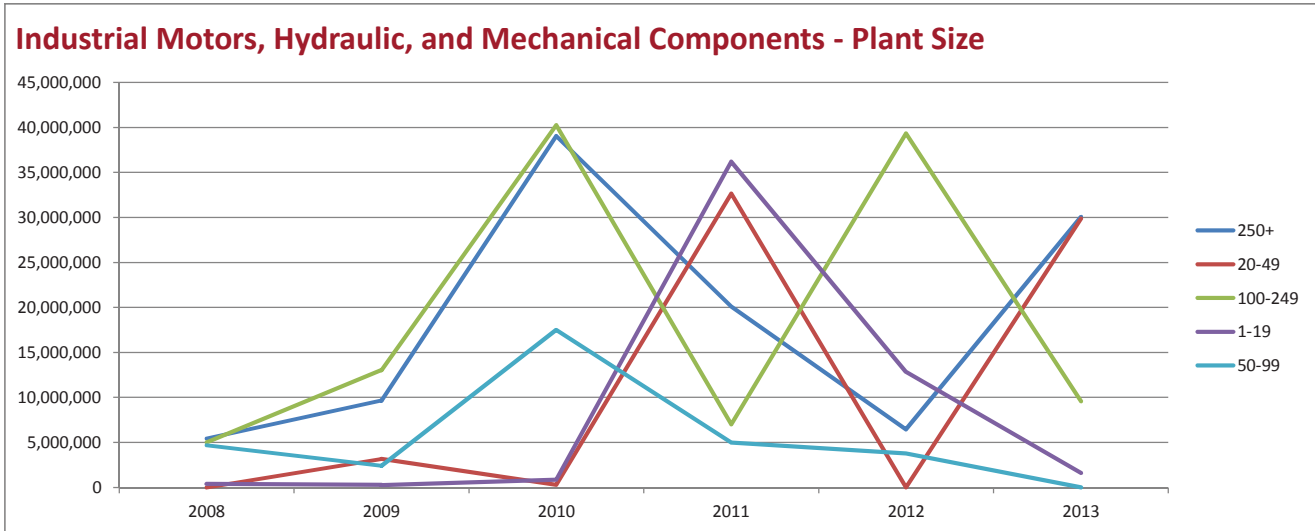
Workholding Type	2008	2009	2010	2011	2012	2013
Flexible Fixtures	2,176,707	2,319,712	5,519,616	7,647,363	4,073,844	11,407,221
Dedicated Fixtures	3,776,379	12,875,828	20,205,012	36,536,246	16,337,797	8,063,711
Other Workholding	934,633	674,794	6,217,855	4,558,667	4,244,867	8,001,044
Automated Systems and Transfer Lines	162,538	1,058,320	6,122,337	11,906,685	4,498,082	7,836,440
Other Turning Workholding	1,605,747	1,179,828	4,653,881	8,514,244	2,316,377	6,444,628
Pallets and Pallet-Handling Devices	1,068,543	0	4,167,254	1,698,487	1,539,987	5,542,889
Chucks	1,185,344	5,592,400	10,945,718	6,975,188	5,554,176	5,468,314
Other Milling/Drilling Processes (in. robots)	267,793	385,368	3,144,804	1,516,765	4,079,606	5,356,339
Indexing Devices	837,499	211,640	3,667,805	5,907,157	3,519,896	4,193,401
EDM Tooling	408,450	81,856	1,006,599	475,214	0	1,612,749
Bar Feeders	671,584	278,286	832,779	2,368,580	1,968,701	1,565,237
Rotating Chucks	105,004	135,135	3,363,603	3,901,392	47,868	1,516,722
Other Grinding Workholding	997,586	773,675	2,138,809	3,371,630	1,968,972	1,503,241
Grinding Work Load/Unload Devices	79,938	150,544	8,400,379	1,051,948	268,061	1,337,257
Other Turning Work Load/Unload Devices (in. robots)	1,251,713	2,810,344	17,562,403	4,509,589	11,967,375	1,251,711
Workholding	15,529,458	28,527,731	97,948,854	100,939,155	62,385,607	71,100,904

Industrial Motors, Hydraulic, and Mechanical Components - Workholding



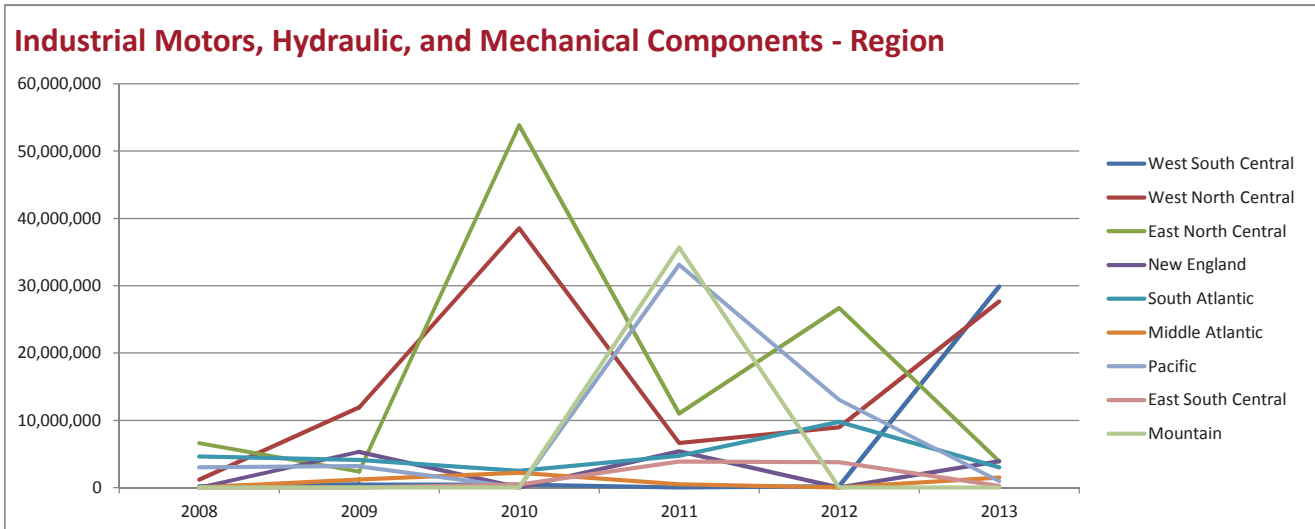
INDUSTRIAL MOTORS, and MECHANICAL COMPONENTS

Plant Size	2008	2009	2010	2011	2012	2013
250+	5,438,907	9,659,634	39,029,631	20,078,056	6,452,336	30,061,531
20-49	0	3,160,519	284,445	32,652,006	0	29,865,726
100-249	5,003,356	13,035,208	40,270,739	7,028,080	39,315,609	9,574,855
1-19	396,249	272,684	858,403	36,189,557	12,833,228	1,598,793
50-99	4,690,946	2,399,687	17,505,636	4,991,455	3,784,435	0
All	15,529,458	28,527,731	97,948,854	100,939,155	62,385,607	71,100,904



Industrial Motors, Hydraulic, and Mechanical Components

Region	2008	2009	2010	2011	2012	2013
West South Central	203,954	465,543	429,201	0	199,181	29,865,726
West North Central	1,170,998	11,911,262	38,514,453	6,648,184	8,935,366	27,662,871
East North Central	6,580,337	2,394,667	53,841,606	11,001,209	26,686,312	3,935,022
New England	0	5,297,870	0	5,405,630	0	3,919,531
South Atlantic	4,593,446	4,098,026	2,507,702	4,714,152	9,768,478	3,032,143
Middle Atlantic	0	1,199,843	2,213,356	509,712	0	1,472,755
Pacific	2,980,723	3,160,519	0	33,119,257	13,032,409	952,959
East South Central	0	0	442,536	3,861,165	3,763,863	259,898
Mountain	0	0	0	35,679,845	0	0
All	15,529,458	28,527,731	97,948,854	100,939,155	62,385,607	71,100,904



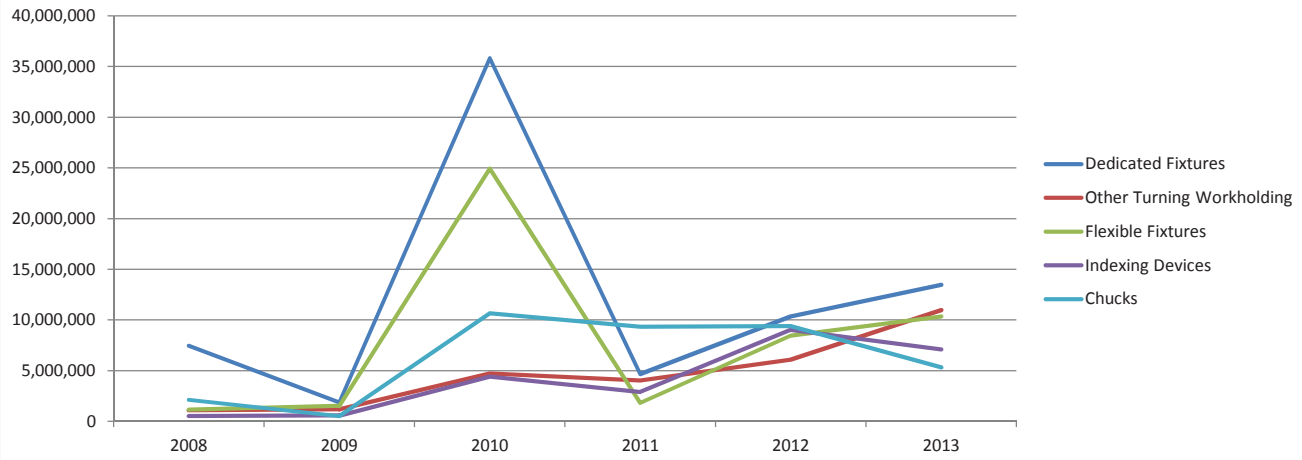
2013

CAPITAL SPENDING Workholding, Industry Trend Report

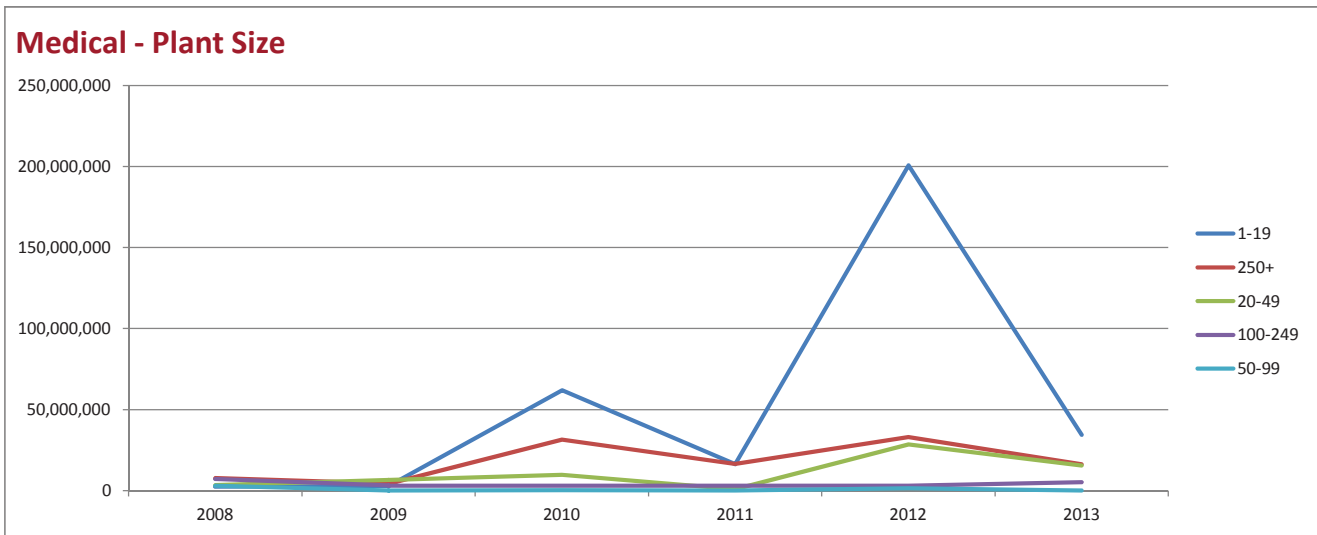
Medical

Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	7,453,779	1,862,488	35,815,879	4,643,518	10,330,602	13,468,423
Other Turning Workholding	1,072,687	1,179,747	4,704,328	4,019,192	6,089,653	10,953,998
Flexible Fixtures	1,120,339	1,517,258	24,928,861	1,823,578	8,442,655	10,348,805
Indexing Devices	514,150	551,233	4,404,853	2,875,121	9,026,423	7,085,189
Chucks	2,123,460	508,540	10,658,723	9,325,006	9,402,054	5,319,704
Other Workholding	926,207	4,614,694	985,988	305,938	3,987,169	4,438,663
Other Milling/Drilling Processes (in. robots)	3,413,064	624,426	4,149,704	1,611,506	184,054,868	3,359,043
Other Turning Work Load/Unload Devices (in. robots)	528,245	579,203	192,872	1,481,510	7,266,441	3,024,170
EDM Tooling	894,929	1,502,114	2,499,444	518,885	3,992,535	2,841,274
Grinding Work Load/Unload Devices	357,528	371,711	840,722	1,812,639	302,701	2,782,744
Pallets and Pallet-Handling Devices	673,013	424,446	609,838	2,447,233	6,263,893	2,225,894
Other Grinding Workholding	1,771,613	862,294	6,888,555	2,860,276	9,400,283	1,601,421
Automated Systems and Transfer Lines	927,197	415,000	233,777	236,115	3,434,215	1,363,726
Rotating Chucks	376,325	270,149	7,156,946	2,183,002	431,751	1,203,929
Bar Feeders	1,289,809	1,231,467	2,123,480	665,135	4,229,031	1,068,275
Workholding	23,442,344	16,514,770	106,193,970	36,808,655	266,654,273	71,085,258

Medical - Workholding

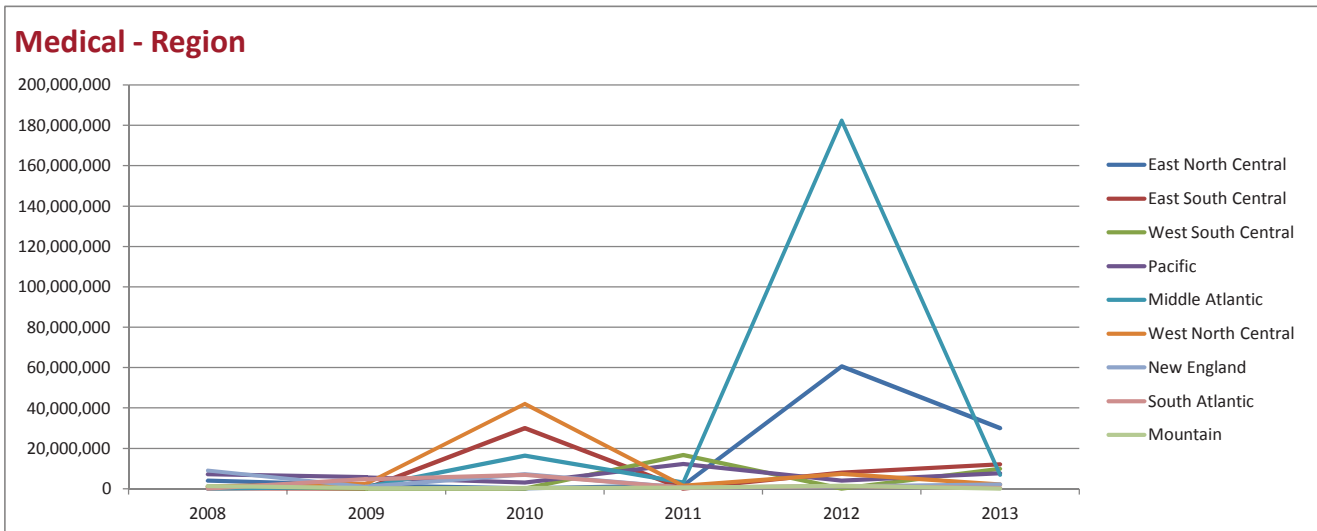


Plant Size	2008	2009	2010	2011	2012	2013
1-19	2,377,492	2,726,836	61,805,014	16,310,786	200,711,683	34,374,052
250+	7,692,169	4,215,113	31,418,853	16,525,784	33,014,451	16,200,306
20-49	3,384,881	6,546,790	9,671,139	932,914	28,470,319	15,359,516
100-249	7,132,444	3,026,030	3,097,749	3,039,170	3,063,554	5,151,384
50-99	2,855,358	0	201,214	0	1,394,266	0
All	23,442,344	16,514,770	106,193,970	36,808,655	266,654,273	71,085,258



Medical

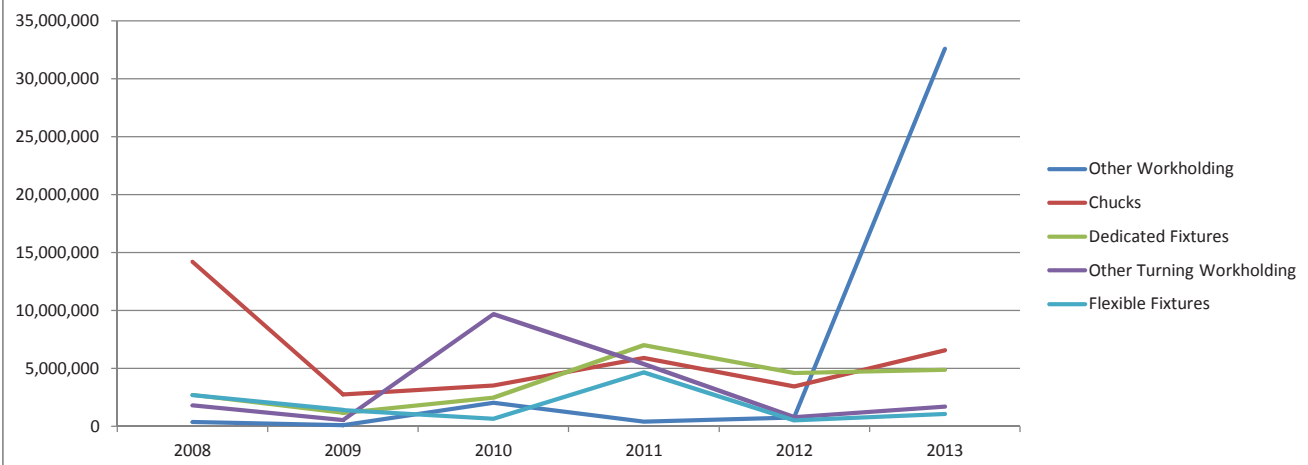
Region	2008	2009	2010	2011	2012	2013
East North Central	3,961,435	1,672,489	147,512	1,583,085	60,566,131	29,969,284
East South Central	106,454	0	30,044,104	0	8,041,054	12,128,571
West South Central	1,015,464	0	0	16,721,092	127,648	9,906,167
Pacific	7,111,121	5,643,785	3,069,768	12,340,397	4,045,044	7,627,025
Middle Atlantic	0	869,727	16,342,783	3,092,049	182,353,663	6,856,704
West North Central	1,015,464	2,400,273	42,000,479	1,529,136	7,381,532	2,165,816
New England	9,061,407	993,681	7,259,387	463,340	1,195,085	2,085,159
South Atlantic	0	4,702,044	6,887,402	509,712	1,404,129	346,531
Mountain	1,170,998	232,772	442,536	569,844	1,539,987	0
All	23,442,344	16,514,770	106,193,970	36,808,655	266,654,273	71,085,258



Other Manufacturing

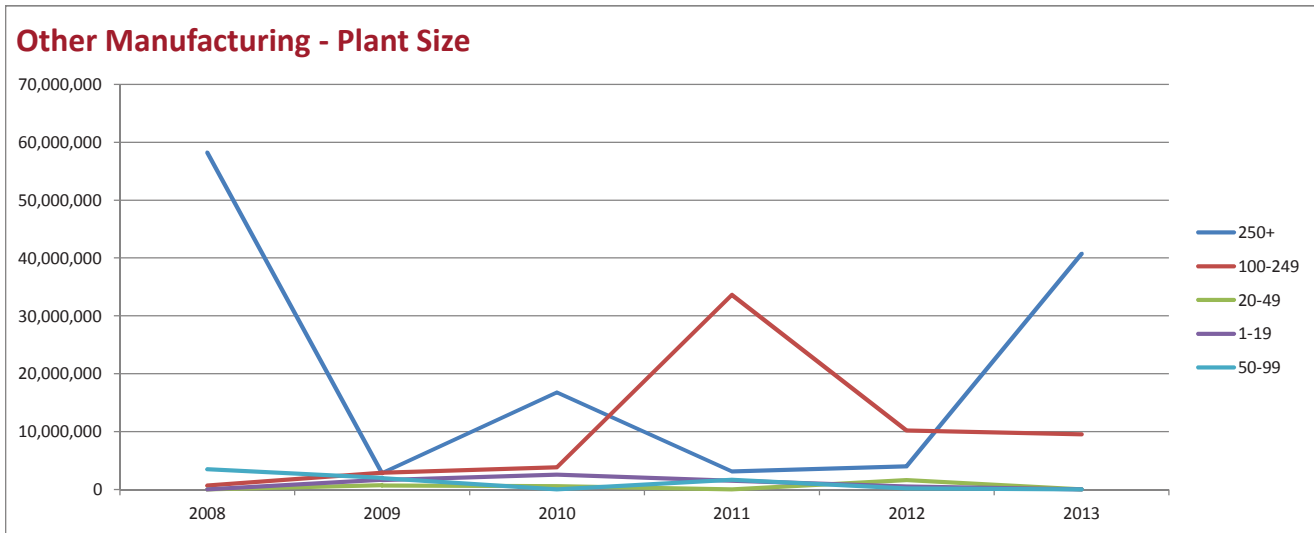
Workholding Type	2008	2009	2010	2011	2012	2013
Other Workholding	357,414	89,781	2,037,059	406,082	758,230	32,590,727
Chucks	14,187,352	2,754,486	3,511,796	5,901,478	3,449,553	6,545,069
Dedicated Fixtures	2,697,888	1,153,300	2,475,548	6,991,660	4,589,670	4,873,873
Other Turning Workholding	1,782,340	530,312	9,689,068	5,362,371	786,973	1,687,188
Flexible Fixtures	2,663,088	1,401,390	639,777	4,638,918	511,247	1,067,792
Other Grinding Workholding	3,361,274	693,359	621,855	1,265,041	628,156	737,992
Automated Systems and Transfer Lines	8,562,079	160,030	2,984,808	42,473	91,512	693,061
Rotating Chucks	1,031,706	205,782	67,307	169,891	112,972	633,284
Indexing Devices	880,814	763,661	873,288	4,542,400	2,303,102	390,205
Other Milling/Drilling Processes (in. robots)	20,474,327	339,361	25,600	145,203	473,497	346,531
Grinding Work Load/Unload Devices	287,320	1,086	0	0	142,405	319,722
Other Turning Work Load/Unload Devices (in. robots)	591,975	609,529	321,901	5,660,664	182,200	247,176
Bar Feeders	3,171,305	470,869	0	2,177,396	1,691,316	73,911
Pallets and Pallet-Handling Devices	47,521	613,947	504,385	2,330,377	603,077	18,478
EDM Tooling	2,205,854	170,767	9,757	268,749	206,263	0
Workholding	62,302,257	9,957,661	23,762,149	39,902,702	16,530,172	50,225,010

Other Manufacturing - Workholding



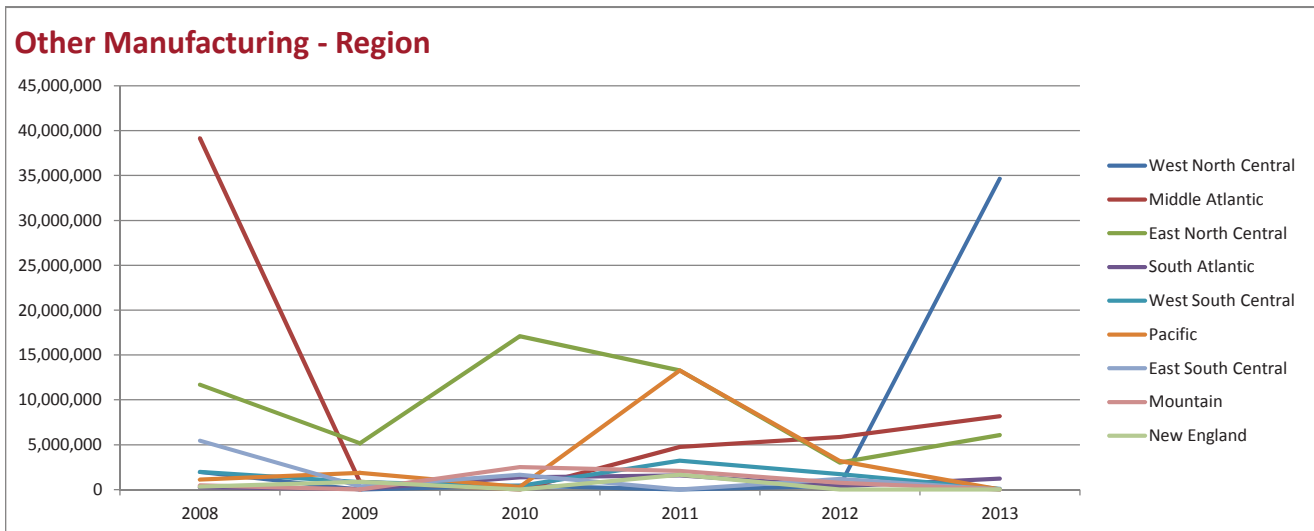
2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
OTHER MANUFACTURING

Plant Size	2008	2009	2010	2011	2012	2013
250+	58,196,310	2,810,075	16,782,741	3,088,932	3,978,940	40,717,347
100-249	638,726	2,870,849	3,835,308	33,620,816	10,211,846	9,507,663
20-49	0	677,254	568,891	0	1,626,875	0
1-19	0	1,636,102	2,575,209	1,529,136	513,329	0
50-99	3,467,221	1,963,380	0	1,663,818	199,181	0
All	62,302,257	9,957,661	23,762,149	39,902,702	16,530,172	50,225,010



Other Manufacturing

Region	2008	2009	2010	2011	2012	2013
West North Central	1,942,467	0	442,536	0	406,719	34,653,061
Middle Atlantic	39,168,702	853,496	0	4,748,703	5,871,812	8,175,022
East North Central	11,703,281	5,158,087	17,093,232	13,296,368	2,995,193	6,064,286
South Atlantic	233,096	58,543	1,385,179	1,579,967	382,944	1,231,853
West South Central	1,942,467	818,051	390,296	3,228,049	1,733,486	100,788
Pacific	1,087,781	1,854,303	284,445	13,296,368	3,191,202	0
East South Central	5,438,907	351,259	1,658,759	0	1,182,928	0
Mountain	466,192	0	2,507,702	2,089,429	765,888	0
New England	319,363	863,921	0	1,663,818	0	0
All	62,302,257	9,957,661	23,762,149	39,902,702	16,530,172	50,225,010



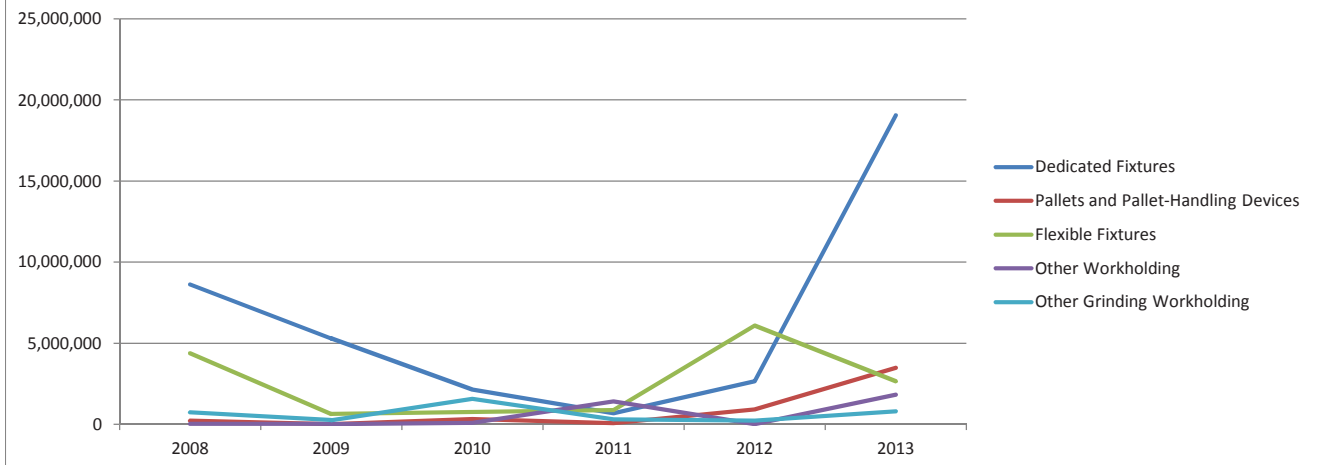
2013

CAPITAL SPENDING Workholding, Industry Trend Report

Power Generation

Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	8,612,425	5,290,249	2,136,037	674,766	2,653,440	19,051,182
Pallets and Pallet-Handling Devices	210,200	0	316,132	64,710	913,715	3,487,646
Flexible Fixtures	4,370,142	635,250	753,054	880,259	6,082,914	2,643,472
Other Workholding	10,645	11,288	93,160	1,413,052	0	1,819,286
Other Grinding Workholding	720,660	244,301	1,560,056	303,518	225,479	799,397
Chucks	617,966	1,564,133	971,191	146,484	1,319,295	681,739
Grinding Work Load/Unload Devices	882,891	0	1,108,801	11,583	46,524	606,429
Other Turning Work Load/Unload Devices (in. robots)	518,293	702,519	1,215,053	32,855	681,947	591,268
Other Milling/Drilling Processes (in. robots)	950,246	544,484	1,241,616	668,318	1,244,569	508,802
Other Turning Workholding	3,313,824	6,766,443	1,337,755	76,159	2,896,977	106,558
Indexing Devices	332,402	1,218,361	809,656	165,152	212,621	31,188
Rotating Chucks	190,362	0	321,857	11,583	89,541	25,990
Automated Systems and Transfer Lines	163,167	0	1,057,476	2,317	2,100,481	0
EDM Tooling	494,994	0	617,436	166,382	120,377	0
Bar Feeders	530,702	0	501,268	4,633	44,422	0
Workholding	21,918,921	16,977,028	14,040,548	4,621,772	18,632,302	30,352,955

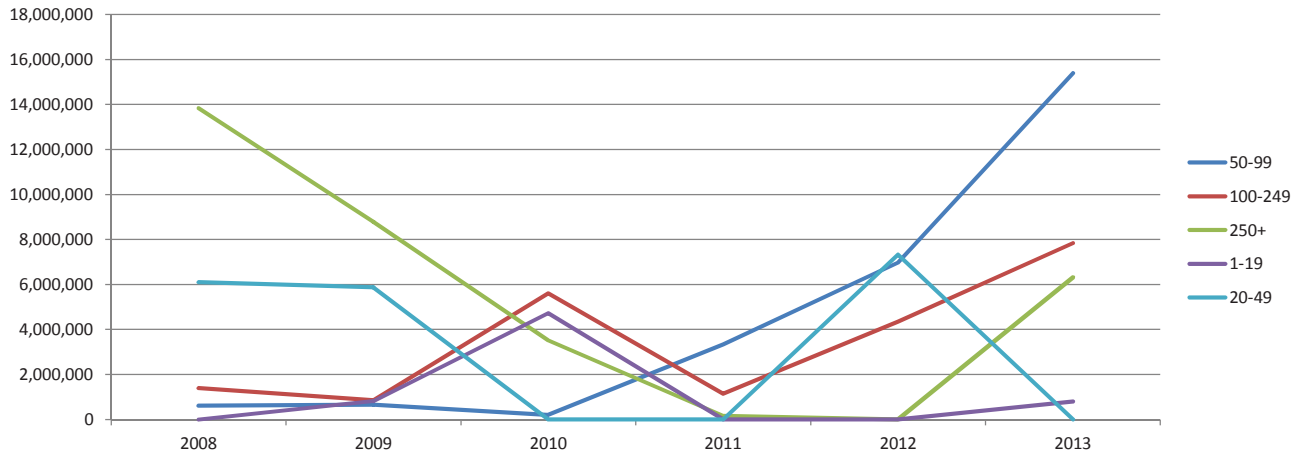
Power Generation - Workholding



**2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
POWER GENERATION**

Plant Size	2008	2009	2010	2011	2012	2013
50-99	611,862	654,460	201,214	3,327,637	6,971,328	15,390,313
100-249	1,383,907	853,496	5,605,451	1,139,689	4,340,035	7,839,063
250+	13,830,365	8,781,485	3,512,667	154,447	0	6,324,184
1-19	0	818,051	4,721,216	0	0	799,397
20-49	6,092,786	5,869,536	0	0	7,320,939	0
All	21,918,921	16,977,028	14,040,548	4,621,772	18,632,302	30,352,955

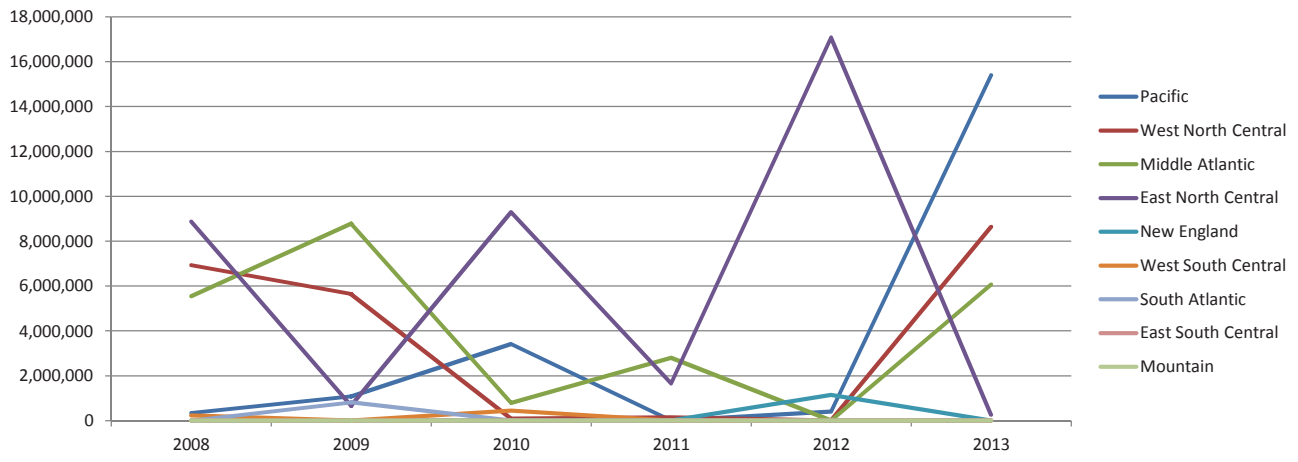
Power Generation - Plant Size



Power Generation

Region	2008	2009	2010	2011	2012	2013
Pacific	338,488	1,079,247	3,415,093	0	406,719	15,390,313
West North Central	6,925,297	5,643,785	97,574	154,447	0	8,638,459
Middle Atlantic	5,545,362	8,781,485	791,262	2,803,507	0	6,064,286
East North Central	8,876,678	654,460	9,294,084	1,663,818	17,076,750	259,898
New England	0	0	0	0	1,148,833	0
West South Central	233,096	0	442,536	0	0	0
South Atlantic	0	818,051	0	0	0	0
East South Central	0	0	0	0	0	0
Mountain	0	0	0	0	0	0
All	21,918,921	16,977,028	14,040,548	4,621,772	18,632,302	30,352,955

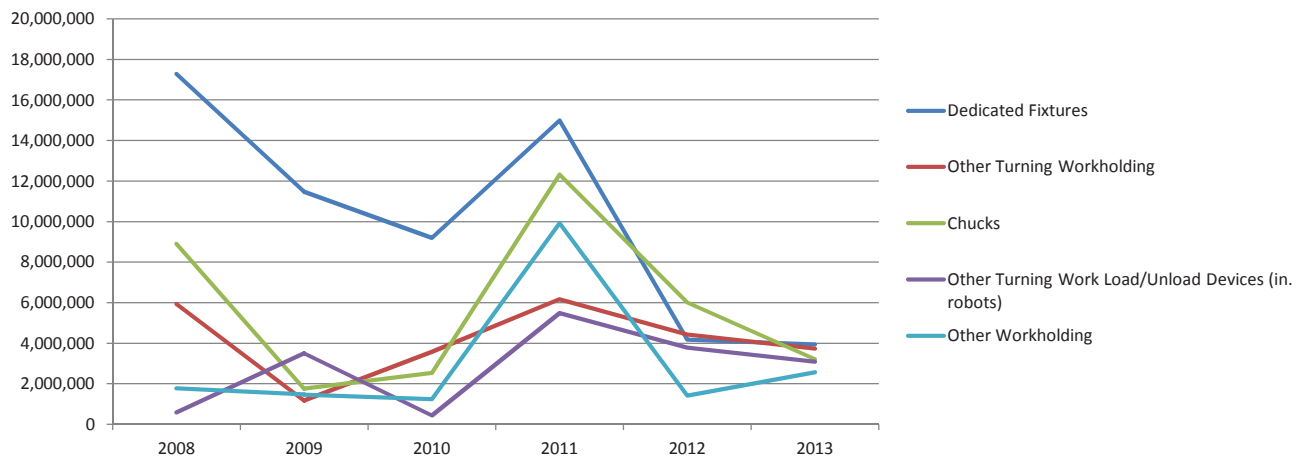
Power Generation - Region



Off-Road and Construction Machinery

Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	17,282,800	11,470,081	9,196,042	14,990,885	4,169,465	3,938,897
Other Turning Workholding	5,933,323	1,170,865	3,576,153	6,161,265	4,426,104	3,736,561
Chucks	8,909,483	1,756,297	2,533,493	12,324,299	5,997,881	3,209,254
Other Turning Work Load/Unload Devices (in. robots)	584,196	3,502,084	429,078	5,487,681	3,778,330	3,087,387
Other Workholding	1,762,801	1,463,581	1,240,058	9,926,333	1,410,472	2,565,515
Bar Feeders	255,491	5,244,367	212,215	4,138,198	2,412,176	2,445,054
EDM Tooling	91,939	0	1,352,300	7,216,175	1,482,126	2,165,816
Flexible Fixtures	4,050,218	0	1,508,556	6,056,001	12,714,282	1,573,852
Other Milling/Drilling Processes (in. robots)	1,373,323	2,341,729	437,330	3,754,599	2,810,043	1,547,267
Indexing Devices	579,858	585,432	1,036,435	2,480,436	3,361,932	1,312,289
Automated Systems and Transfer Lines	829,020	2,334,723	8,047,051	4,175,212	2,011,076	937,736
Grinding Work Load/Unload Devices	2,081,374	0	1,394,744	2,052,596	1,259,667	866,327
Other Grinding Workholding	2,518,794	1,463,581	1,520,268	2,131,223	2,034,482	697,393
Rotating Chucks	41,783	0	1,866,674	5,973,685	1,316,217	649,745
Pallets and Pallet-Handling Devices	42,830	585,432	334,778	1,666,479	1,442,987	324,872
Workholding	46,337,232	31,918,172	34,685,173	88,535,068	50,627,241	29,057,966

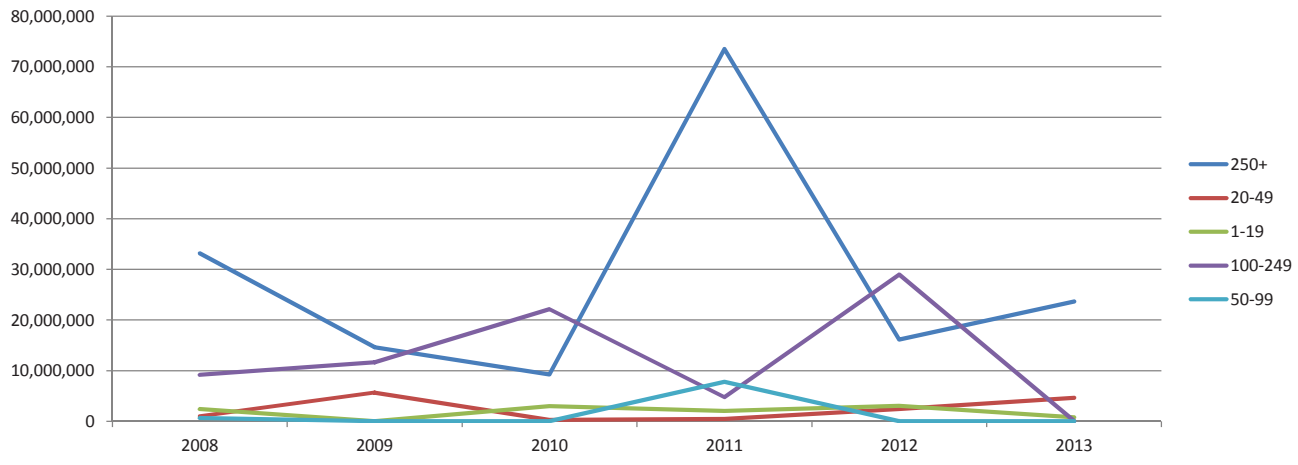
Off-Road and Construction Machinery - Workholding



OFF-ROAD and CONSTRUCTION MACHINERY

Plant Size	2008	2009	2010	2011	2012	2013
250+	33,177,336	14,635,809	9,269,537	73,516,573	16,130,839	23,650,714
20-49	1,015,464	5,643,785	284,445	466,457	2,440,313	4,607,855
1-19	2,377,492	0	3,004,410	2,038,848	3,079,975	799,397
100-249	9,155,078	11,638,578	22,126,780	4,748,703	28,976,114	0
50-99	611,862	0	0	7,764,486	0	0
All	46,337,232	31,918,172	34,685,173	88,535,068	50,627,241	29,057,966

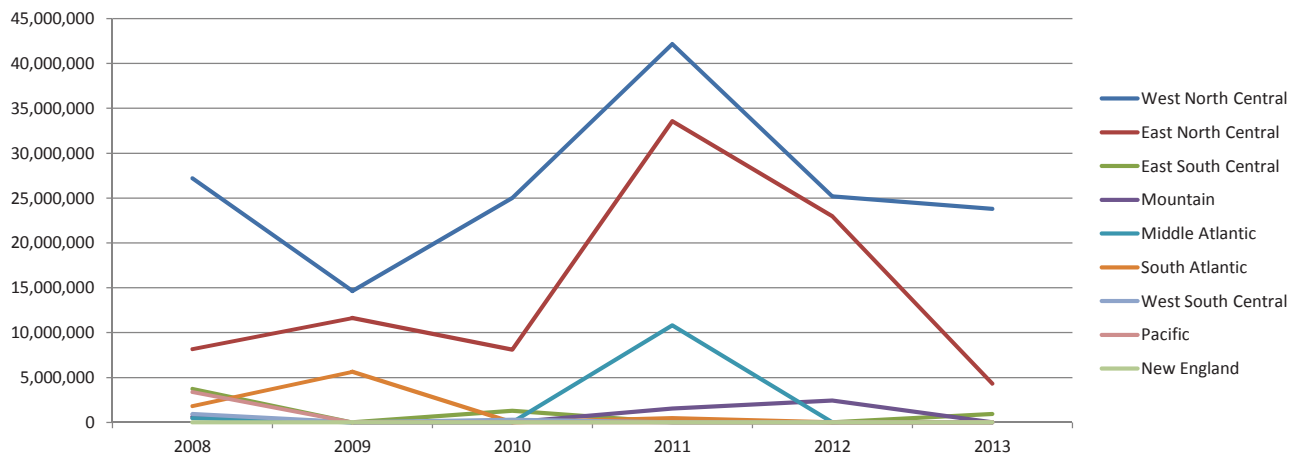
Off-Road Construction and Machinery - Plant Size



Off-Road and Construction Machinery

Region	2008	2009	2010	2011	2012	2013
West North Central	27,194,537	14,635,809	24,995,333	42,171,691	25,193,853	23,792,731
East North Central	8,177,966	11,638,578	8,117,790	33,556,522	22,993,075	4,312,275
East South Central	3,725,904	0	1,287,604	0	0	952,959
Mountain	638,726	0	0	1,529,136	2,440,313	0
Middle Atlantic	466,192	0	0	10,811,261	0	0
South Atlantic	1,809,725	5,643,785	0	466,457	0	0
West South Central	931,226	0	284,445	0	0	0
Pacific	3,392,956	0	0	0	0	0
New England	0	0	0	0	0	0
All	46,337,232	31,918,172	34,685,173	88,535,068	50,627,241	29,057,966

Off-Road and Construction Machinery - Region



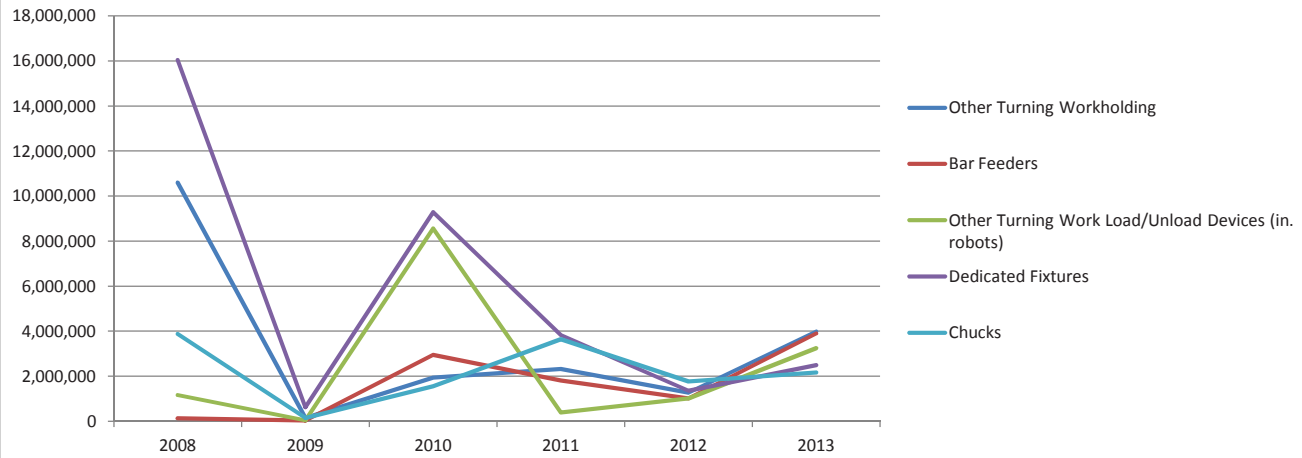
2013

CAPITAL SPENDING Workholding, Industry Trend Report

Hardware

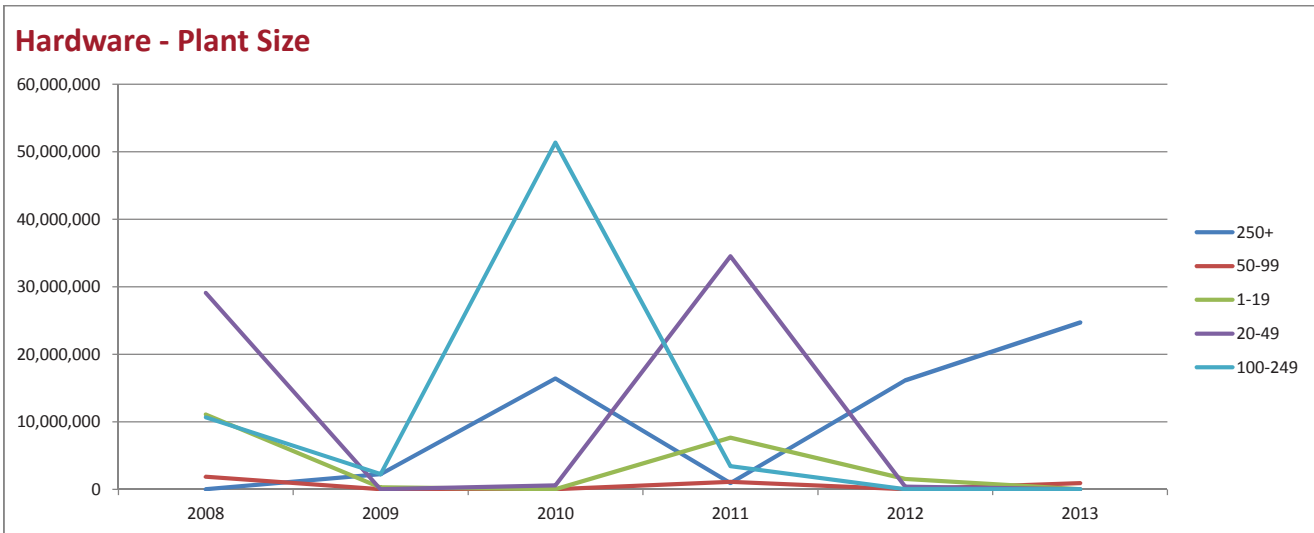
Workholding Type	2008	2009	2010	2011	2012	2013
Other Turning Workholding	10,598,286	152,031	1,935,350	2,322,014	1,269,236	3,989,434
Bar Feeders	129,053	32,588	2,946,210	1,811,332	1,008,177	3,898,469
Other Turning Work Load/Unload Devices (in. robots)	1,160,039	43,468	8,559,439	384,652	1,008,177	3,248,724
Dedicated Fixtures	16,043,063	626,223	9,281,341	3,830,649	1,350,746	2,495,020
Chucks	3,877,249	153,694	1,560,249	3,642,298	1,772,791	2,161,485
Flexible Fixtures	2,754,004	748,579	7,293,897	4,761,370	1,349,729	2,040,199
Other Grinding Workholding	5,335,384	259,488	10,589,633	3,916,248	2,168,874	1,901,587
Other Milling/Drilling Processes (in. robots)	1,287,596	276,307	4,186,396	1,984,321	201,635	1,427,274
Grinding Work Load/Unload Devices	2,621,981	39,833	4,631,503	3,174,032	1,008,177	974,617
Automated Systems and Transfer Lines	556,941	0	3,798,431	1,904,674	403,271	974,617
EDM Tooling	1,689,229	598,469	1,405,433	5,437,222	4,032,710	909,643
Pallets and Pallet-Handling Devices	121,856	1,378,910	961,871	1,149,616	403,271	868,493
Indexing Devices	785,158	28,059	508,040	1,100,594	1,041,732	506,801
Rotating Chucks	521,272	0	3,365,750	9,818,275	1,059,017	199,255
Other Workholding	5,204,856	409,803	7,271,922	2,381,177	0	0
Workholding	52,685,967	4,747,452	68,295,464	47,618,474	18,077,546	25,595,619

Hardware - Workholding



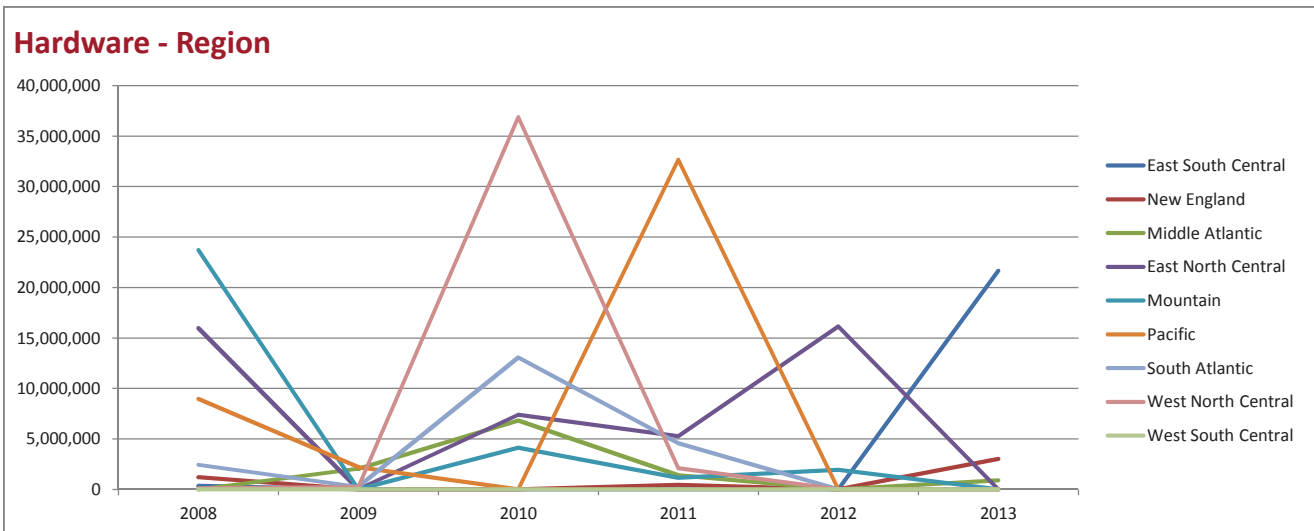
2013 CAPITAL SPENDING
 WORKHOLDING, INDUSTRY TREND REPORT
HARDWARE

Plant Size	2008	2009	2010	2011	2012	2013
250+	0	2,224,643	16,392,445	926,679	16,130,839	24,690,306
50-99	1,835,587	0	0	1,109,212	0	905,313
1-19	11,094,960	272,684	0	7,645,681	1,539,987	0
20-49	29,109,980	0	568,891	34,517,835	406,719	0
100-249	10,645,439	2,250,125	51,334,129	3,419,066	0	0
All	52,685,967	4,747,452	68,295,464	47,618,474	18,077,546	25,595,619



Hardware

Region	2008	2009	2010	2011	2012	2013
East South Central	338,488	0	0	0	0	21,658,163
New England	1,188,746	0	0	466,457	0	3,032,143
Middle Atlantic	0	2,049,013	6,830,185	1,399,372	0	905,313
East North Central	15,975,228	0	7,399,076	5,284,112	16,130,839	0
Mountain	23,694,170	0	4,130,332	1,139,689	1,946,706	0
Pacific	8,961,294	2,212,447	0	32,652,006	0	0
South Atlantic	2,421,587	253,220	13,057,905	4,587,409	0	0
West North Central	106,454	232,772	36,877,966	2,089,429	0	0
West South Central	0	0	0	0	0	0
All	52,685,967	4,747,452	68,295,464	47,618,474	18,077,546	25,595,619



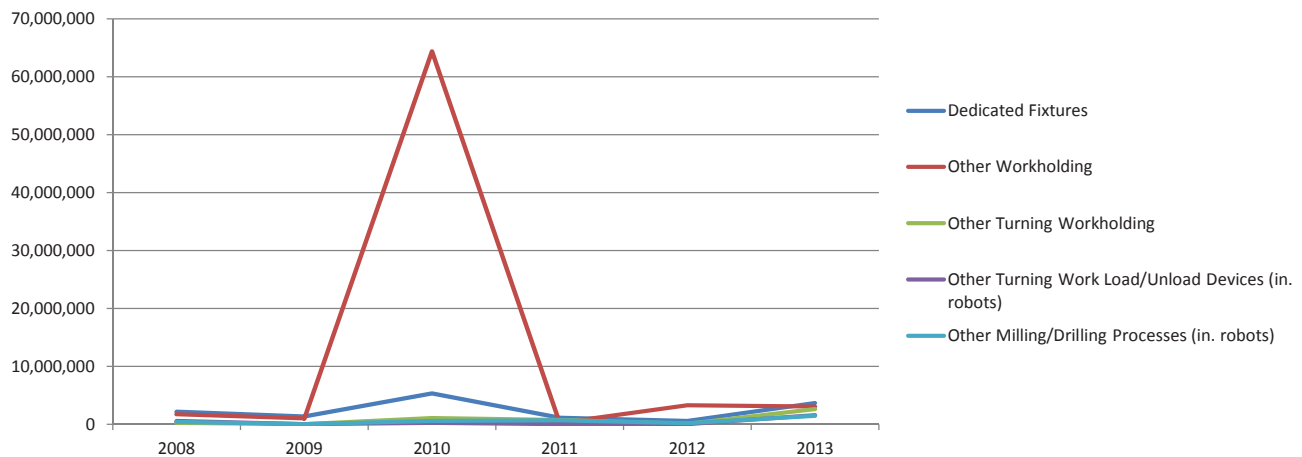
2013

CAPITAL SPENDING Workholding, Industry Trend Report

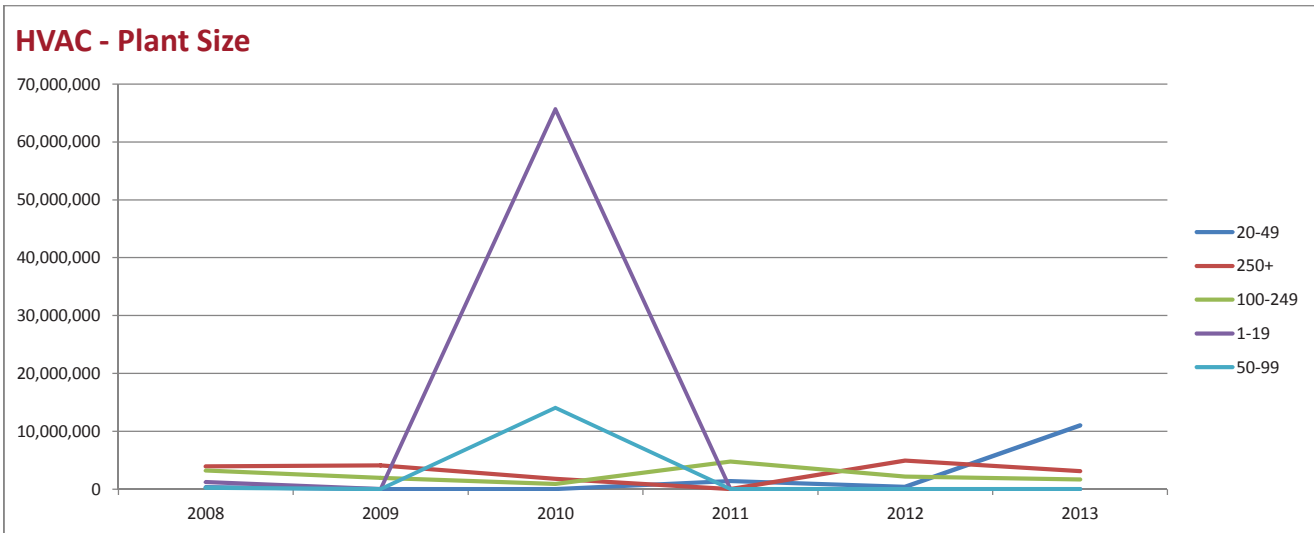
HVAC

Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	2,171,282	1,342,115	5,309,212	1,144,620	554,464	3,667,015
Other Workholding	1,696,470	969,882	64,380,223	237,435	3,255,121	3,081,665
Other Turning Workholding	240,041	0	1,051,637	735,280	48,806	2,598,514
Other Turning Work Load/Unload Devices (in. robots)	557,697	0	248,020	0	0	1,572,773
Other Milling/Drilling Processes (in. robots)	376,372	0	579,422	664,818	197,566	1,429,927
Indexing Devices	365,539	242,470	1,164,122	474,870	182,623	974,047
Chucks	616,283	409,803	1,874,880	952,183	1,538,889	807,662
Flexible Fixtures	1,084,422	0	2,552,176	384,827	1,107,197	702,906
Other Grinding Workholding	469,613	1,639,211	556,668	765,756	118,293	542,282
EDM Tooling	22,810	0	82,938	0	0	221,323
Rotating Chucks	15,232	0	557,355	142,461	236,586	71,356
Grinding Work Load/Unload Devices	309,664	0	0	0	118,293	60,473
Bar Feeders	189,293	0	395,920	645,824	130,201	45,355
Automated Systems and Transfer Lines	389,174	614,704	1,313,410	0	35,488	18,612
Pallets and Pallet-Handling Devices	305,862	819,605	2,328,243	0	0	13,438
Workholding	8,809,754	6,037,790	82,394,227	6,148,075	7,523,527	15,807,348

HVAC - Workholding

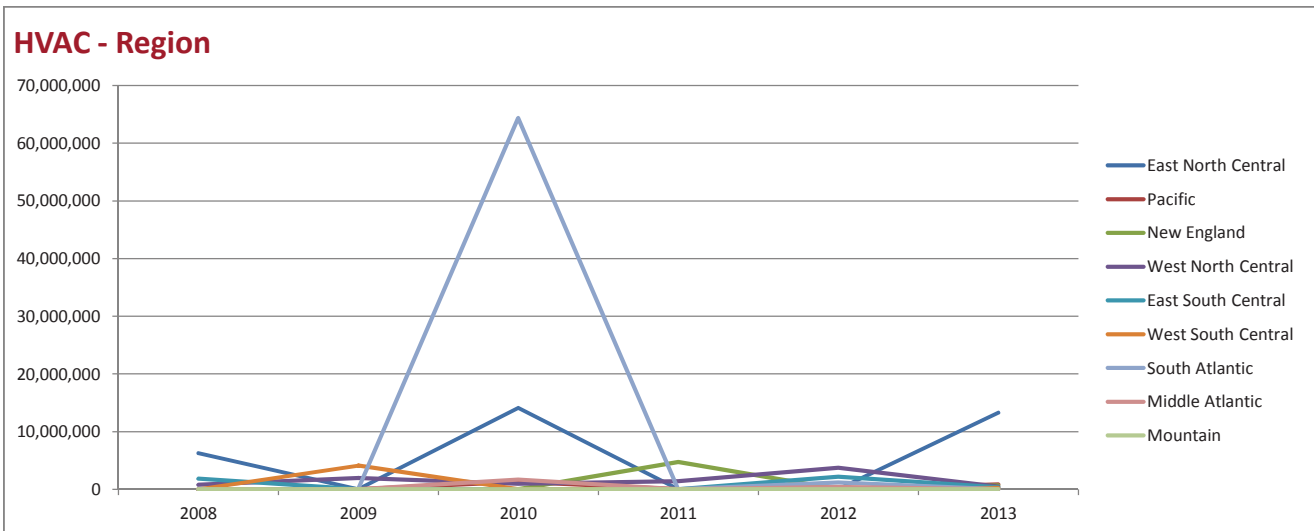


Plant Size	2008	2009	2010	2011	2012	2013
20-49	338,488	0	0	1,399,372	406,719	11,007,653
250+	3,884,934	4,098,026	1,756,333	0	4,946,791	3,118,776
100-249	3,193,632	1,939,763	885,071	4,748,703	2,170,017	1,680,919
1-19	1,188,746	0	65,667,828	0	0	0
50-99	203,954	0	14,084,995	0	0	0
All	8,809,754	6,037,790	82,394,227	6,148,075	7,523,527	15,807,348



HVAC

Region	2008	2009	2010	2011	2012	2013
East North Central	6,254,848	0	14,084,995	0	0	13,271,820
Pacific	0	0	1,287,604	0	0	854,608
New England	0	0	0	4,748,703	0	671,920
West North Central	745,181	1,939,763	982,645	1,399,372	3,763,863	447,946
East South Central	1,809,725	0	0	0	2,170,017	335,960
West South Central	0	4,098,026	0	0	0	225,093
South Atlantic	0	0	64,380,223	0	1,182,928	0
Middle Atlantic	0	0	1,658,759	0	406,719	0
Mountain	0	0	0	0	0	0
All	8,809,754	6,037,790	82,394,227	6,148,075	7,523,527	15,807,348



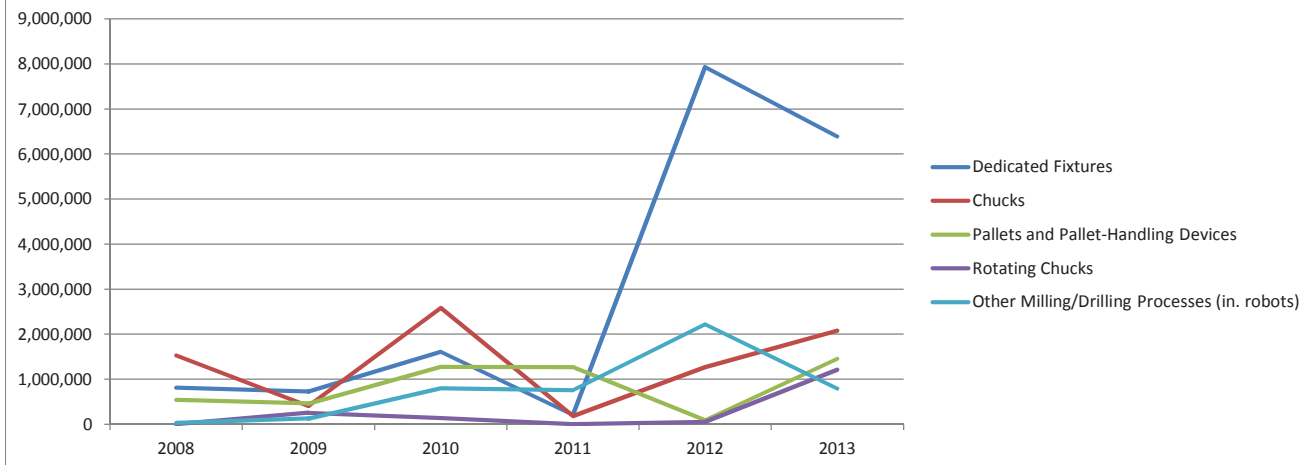
2013

CAPITAL SPENDING Workholding, Industry Trend Report

Petrochemical Processors

Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	811,631	724,392	1,609,745	205,144	7,928,697	6,387,520
Chucks	1,529,693	405,987	2,579,946	182,350	1,266,949	2,077,761
Pallets and Pallet-Handling Devices	538,439	458,752	1,275,802	1,265,721	86,801	1,455,429
Rotating Chucks	0	252,707	139,378	0	52,080	1,213,478
Other Milling/Drilling Processes (in. robots)	27,195	125,658	797,934	754,874	2,221,064	788,357
Other Workholding	0	2,465,271	174,223	113,969	325,503	692,195
Other Turning Workholding	283,209	268,602	833,554	182,350	792,431	549,762
Flexible Fixtures	2,101,994	1,248,108	735,141	579,229	3,803,040	514,718
Indexing Devices	27,195	179,390	757,368	45,588	1,625,377	332,790
Grinding Work Load/Unload Devices	0	170,699	426,248	5,698	112,841	242,571
Other Turning Work Load/Unload Devices (in. robots)	101,980	78,560	212,946	22,794	237,259	121,286
Other Grinding Workholding	379,452	1,162,561	952,208	565,820	52,080	12,800
EDM Tooling	363,719	81,319	566,951	152,517	0	866
Bar Feeders	203,959	103,441	188,607	68,381	75,951	0
Automated Systems and Transfer Lines	179,480	464,756	757,368	45,588	43,400	0
Workholding	6,547,944	8,190,203	12,007,417	4,190,022	18,623,474	14,389,533

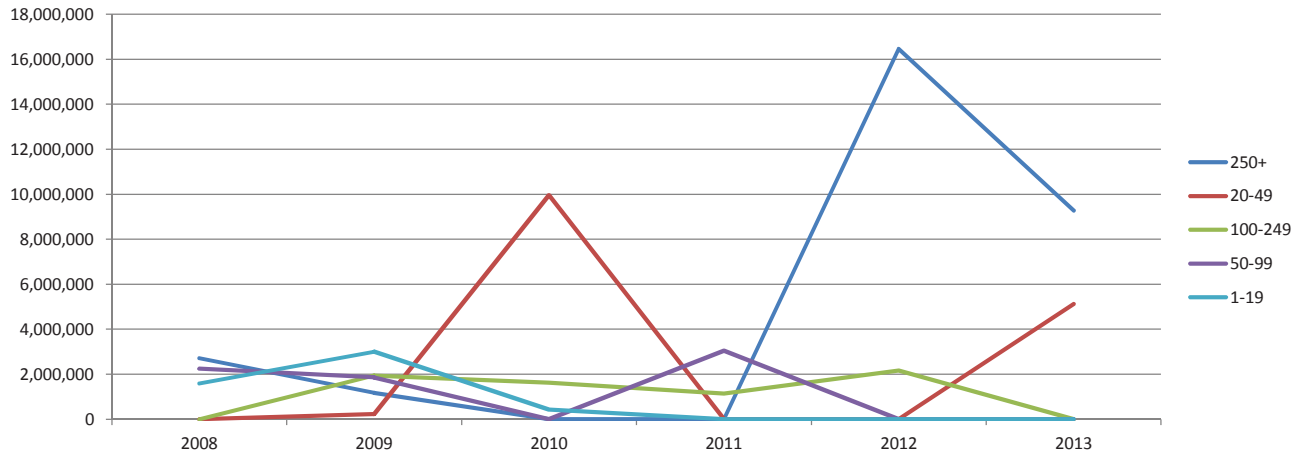
Petrochemical Processors - Workholding



2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
PETROCHEMICAL PROCESSORS

Plant Size	2008	2009	2010	2011	2012	2013
250+	2,719,454	1,170,865	0	0	16,453,456	9,269,694
20-49	0	225,751	9,955,585	0	0	5,119,839
100-249	0	1,939,763	1,622,631	1,139,689	2,170,017	0
50-99	2,243,496	1,854,303	0	3,050,334	0	0
1-19	1,584,994	2,999,520	429,201	0	0	0
All	6,547,944	8,190,203	12,007,417	4,190,022	18,623,474	14,389,533

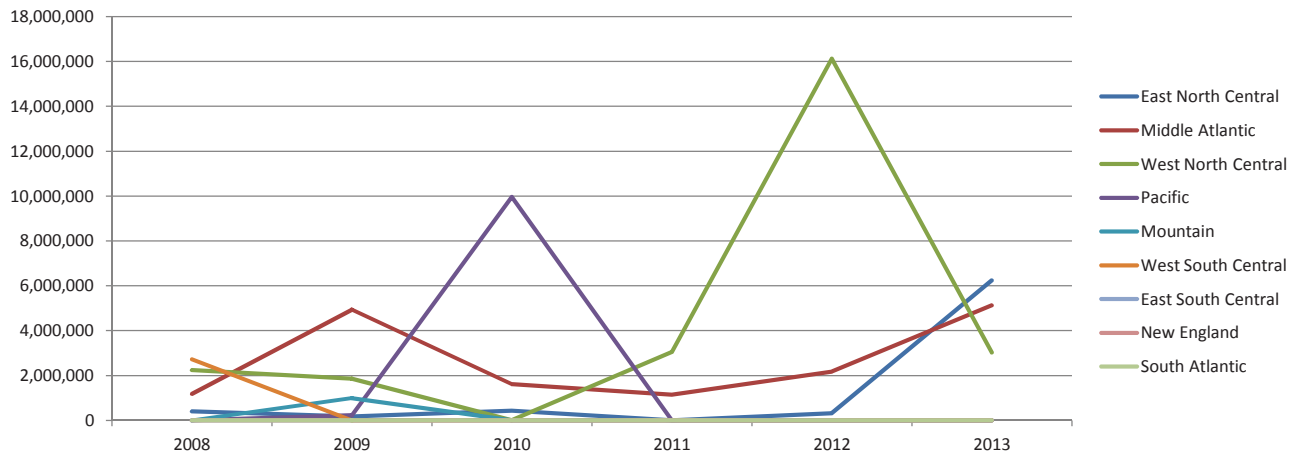
Petrochemical Processors - Plant Size



Petrochemical Processors

Region	2008	2009	2010	2011	2012	2013
East North Central	396,249	175,630	429,201	0	322,617	6,237,551
Middle Atlantic	1,188,746	4,939,283	1,622,631	1,139,689	2,170,017	5,119,839
West North Central	2,243,496	1,854,303	0	3,050,334	16,130,839	3,032,143
Pacific	0	225,751	9,955,585	0	0	0
Mountain	0	995,235	0	0	0	0
West South Central	2,719,454	0	0	0	0	0
East South Central	0	0	0	0	0	0
New England	0	0	0	0	0	0
South Atlantic	0	0	0	0	0	0
All	6,547,944	8,190,203	12,007,417	4,190,022	18,623,474	14,389,533

Petrochemical Processors - Region



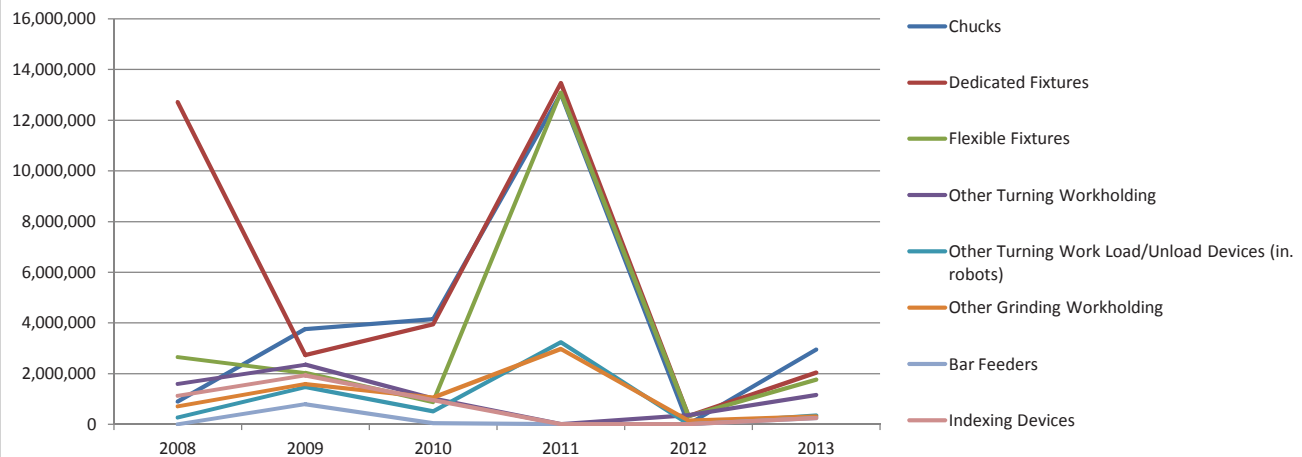
2013

CAPITAL SPENDING Workholding, Industry Trend Report

Military

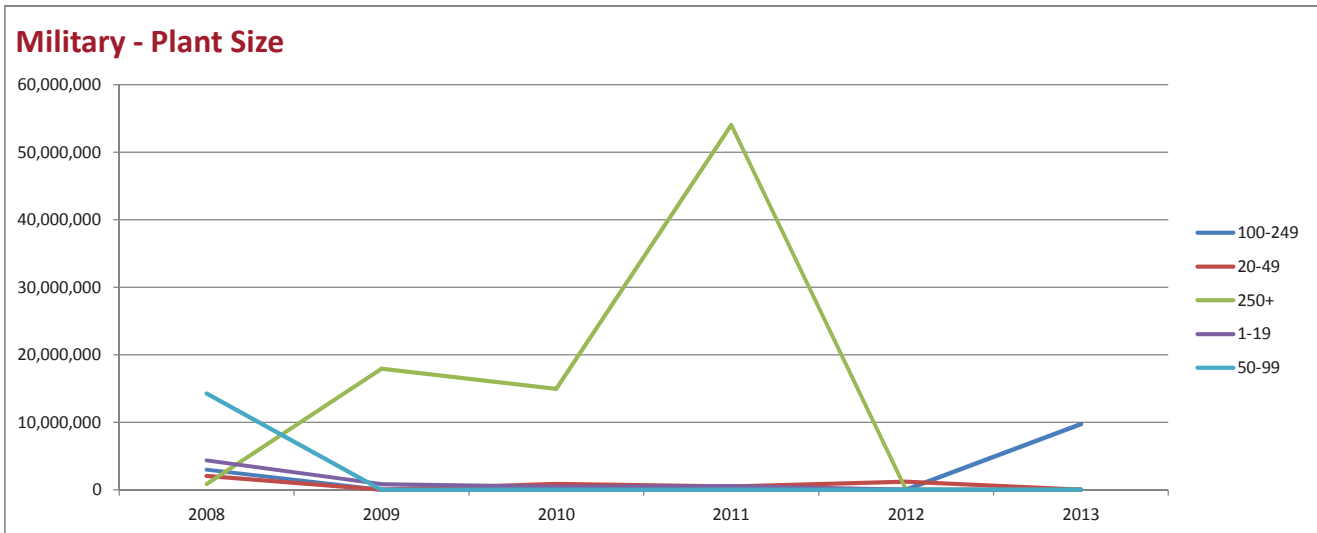
Workholding Type	2008	2009	2010	2011	2012	2013
Chucks	893,747	3,759,121	4,142,646	13,049,970	0	2,950,847
Dedicated Fixtures	12,722,253	2,726,830	3,940,335	13,462,982	317,241	2,040,956
Flexible Fixtures	2,651,949	2,020,094	872,606	13,090,127	317,241	1,755,390
Other Turning Workholding	1,585,924	2,351,272	1,020,763	0	353,845	1,148,703
Other Turning Work Load/Unload Devices (in. robots)	266,136	1,463,581	512,264	3,243,378	0	342,119
Other Grinding Workholding	699,348	1,587,244	1,054,388	2,976,821	146,419	310,203
Bar Feeders	0	793,144	48,299	0	0	244,971
Indexing Devices	1,125,937	1,927,829	946,406	0	0	243,571
EDM Tooling	170,327	163,921	709,851	0	0	242,171
Other Milling/Drilling Processes (in. robots)	580,887	585,432	731,806	0	0	195,977
Rotating Chucks	0	548,843	731,806	2,702,815	0	171,340
Other Workholding	3,099,608	0	36,590	0	85,411	48,994
Pallets and Pallet-Handling Devices	559,372	73,179	731,806	6,486,756	0	47,594
Automated Systems and Transfer Lines	79,841	731,790	731,806	19,624	0	0
Grinding Work Load/Unload Devices	66,534	0	0	0	0	0
Workholding	24,501,863	18,732,281	16,211,371	55,032,473	1,220,157	9,742,835

Military - Workholding



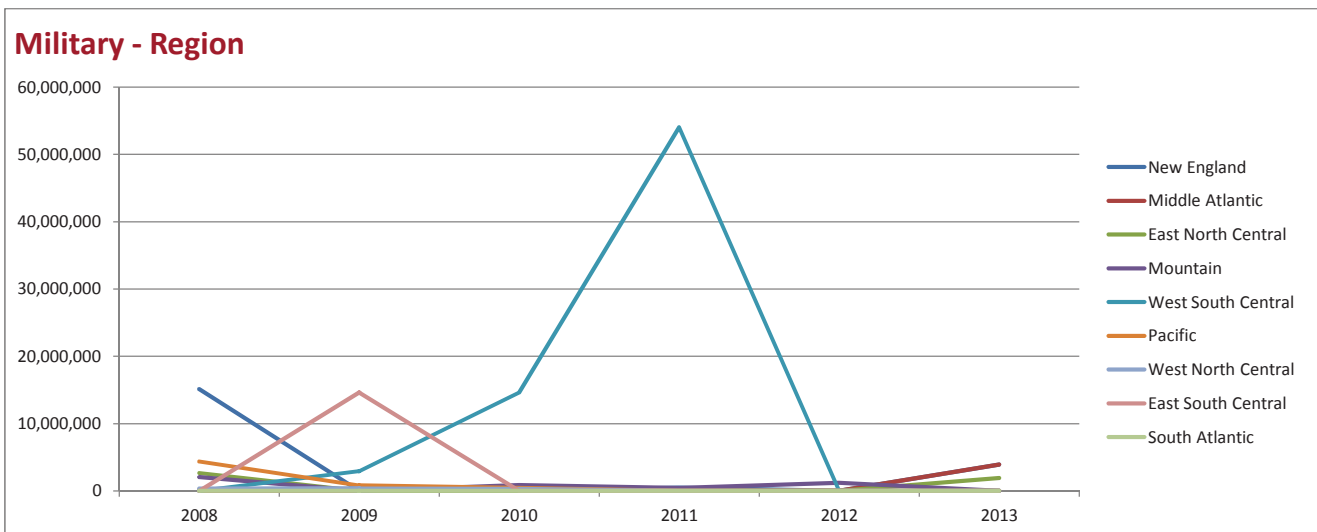
2013 CAPITAL SPENDING
 WORKHOLDING, INDUSTRY TREND REPORT
MILITARY

Plant Size	2008	2009	2010	2011	2012	2013
100-249	2,980,723	0	0	0	0	9,742,835
20-49	2,030,929	0	853,336	466,457	1,220,157	0
250+	854,685	17,914,230	14,928,834	54,056,304	0	0
1-19	4,358,734	818,051	429,201	509,712	0	0
50-99	14,276,791	0	0	0	0	0
All	24,501,863	18,732,281	16,211,371	55,032,473	1,220,157	9,742,835



Military

Region	2008	2009	2010	2011	2012	2013
New England	15,131,477	0	0	509,712	0	3,919,531
Middle Atlantic	0	0	0	0	0	3,919,531
East North Central	2,661,360	0	0	0	0	1,903,772
Mountain	2,030,929	0	853,336	466,457	1,220,157	0
West South Central	0	2,927,162	14,636,112	54,056,304	0	0
Pacific	4,358,734	818,051	429,201	0	0	0
West North Central	319,363	351,259	292,722	0	0	0
East South Central	0	14,635,809	0	0	0	0
South Atlantic	0	0	0	0	0	0
All	24,501,863	18,732,281	16,211,371	55,032,473	1,220,157	9,742,835



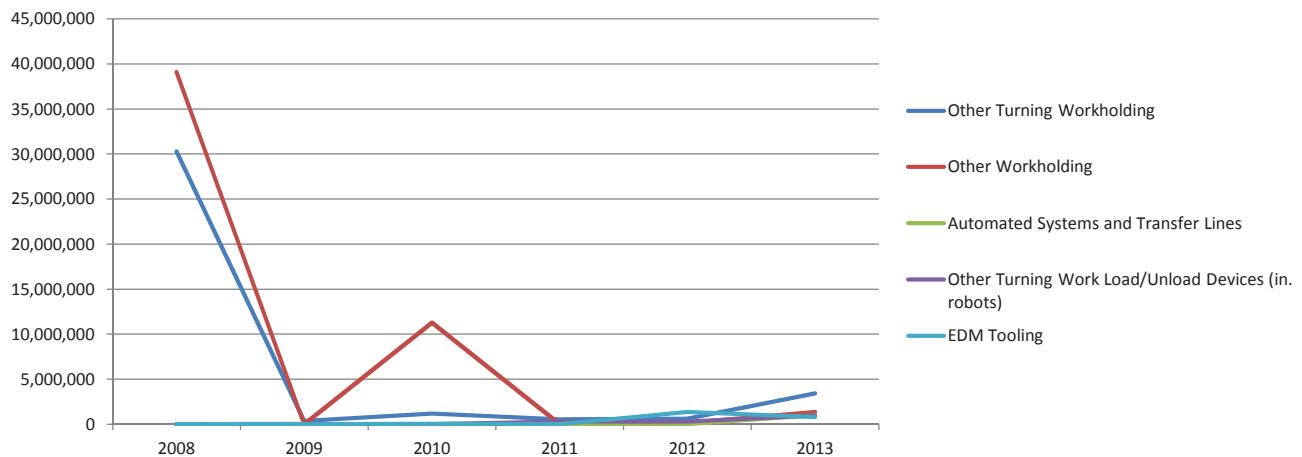
2013

CAPITAL SPENDING Workholding, Industry Trend Report

Oil, Gas Field, and Mining Machinery

Workholding Type	2008	2009	2010	2011	2012	2013
Other Turning Workholding	30,283,056	351,852	1,197,053	539,609	602,218	3,422,889
Other Workholding	39,095,380	0	11,267,996	0	150,555	1,349,884
Automated Systems and Transfer Lines	0	13,907	0	0	0	1,023,968
Other Turning Work Load/Unload Devices (in. robots)	0	0	0	295,035	301,109	964,310
EDM Tooling	0	0	42,667	0	1,354,991	810,015
Dedicated Fixtures	20,402,277	1,081,879	72,554,045	9,369,374	2,408,872	733,787
Chucks	15,222,465	5,474,970	9,202,032	3,358,102	2,839,857	665,486
Other Grinding Workholding	0	696,787	29,272	3,610,409	0	243,654
Other Milling/Drilling Processes (in. robots)	0	0	18,043,429	946,271	0	99,543
Rotating Chucks	0	263,445	29,867	0	0	81,218
Indexing Devices	4,457,962	706,031	29,272	582,336	0	74,303
Flexible Fixtures	10,594,488	45,233	73,181	686,318	1,090,281	10,829
Grinding Work Load/Unload Devices	0	395,167	89,600	776,449	0	0
Pallets and Pallet-Handling Devices	10,070,022	83,441	0	582,336	0	0
Bar Feeders	0	0	1,267,600	194,112	0	0
Workholding	130,125,650	9,112,712	113,826,014	20,940,351	8,747,882	9,479,887

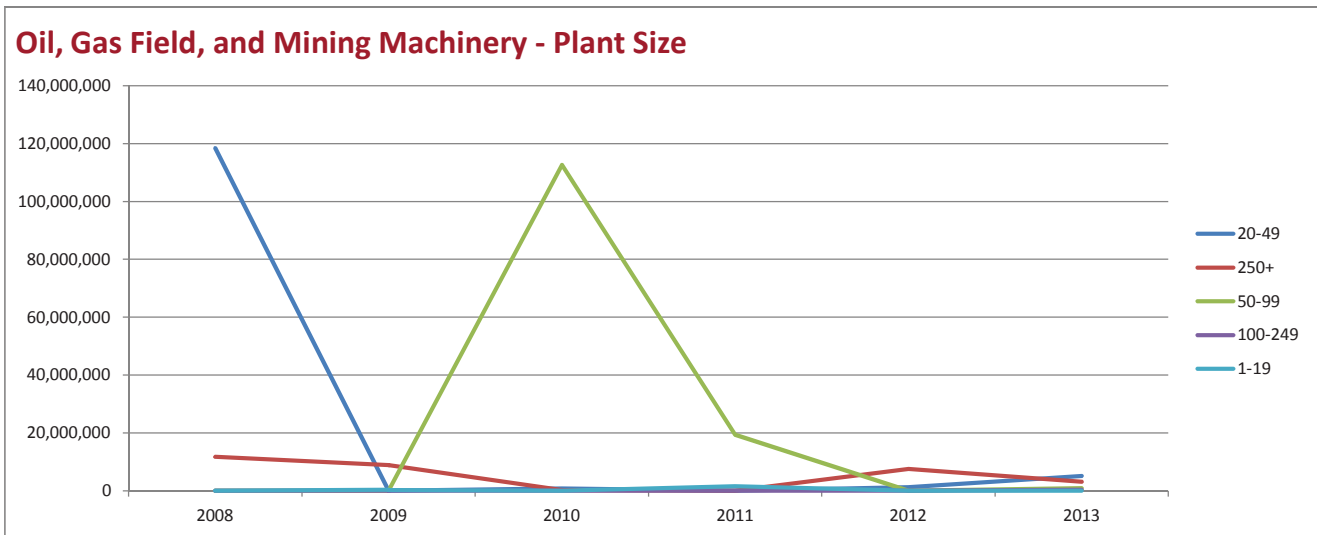
Oil, Gas Field, and Mining Machinery - Workholding



2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT

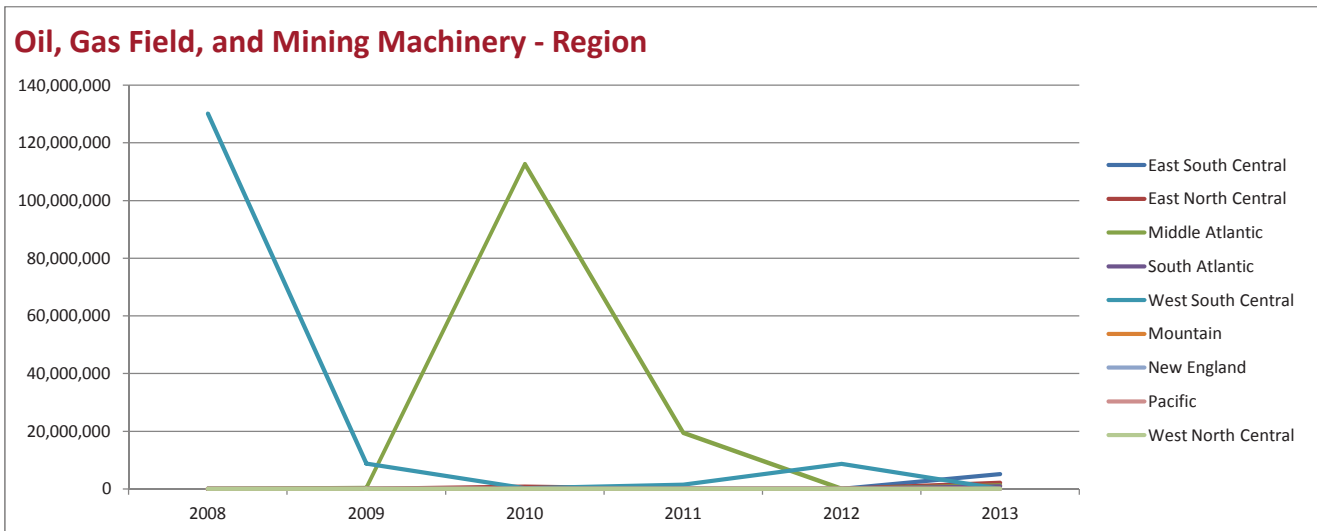
OIL, GAS FIELD, and MINING MACHINERY

Plant Size	2008	2009	2010	2011	2012	2013
20-49	118,470,849	0	853,336	0	1,220,157	5,119,839
250+	11,654,802	8,840,029	292,722	0	7,527,725	3,118,776
50-99	0	0	112,679,956	19,411,215	0	905,313
100-249	0	0	0	0	0	335,960
1-19	0	272,684	0	1,529,136	0	0
All	130,125,650	9,112,712	113,826,014	20,940,351	8,747,882	9,479,887



Oil, Gas Field, and Mining Machinery

Region	2008	2009	2010	2011	2012	2013
East South Central	0	0	0	0	0	5,119,839
East North Central	0	0	853,336	0	0	2,165,816
Middle Atlantic	0	272,684	112,679,956	19,411,215	0	1,288,919
South Atlantic	0	0	0	0	0	905,313
West South Central	130,125,650	8,840,029	292,722	1,529,136	8,747,882	0
Mountain	0	0	0	0	0	0
New England	0	0	0	0	0	0
Pacific	0	0	0	0	0	0
West North Central	0	0	0	0	0	0
All	130,125,650	9,112,712	113,826,014	20,940,351	8,747,882	9,479,887



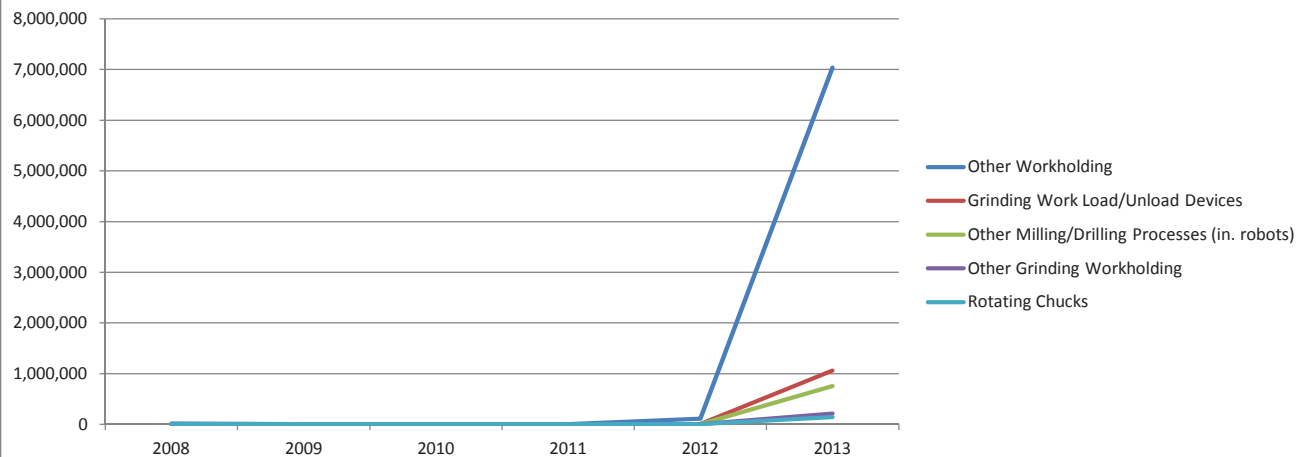
2013

CAPITAL SPENDING Workholding, Industry Trend Report

Ship Building

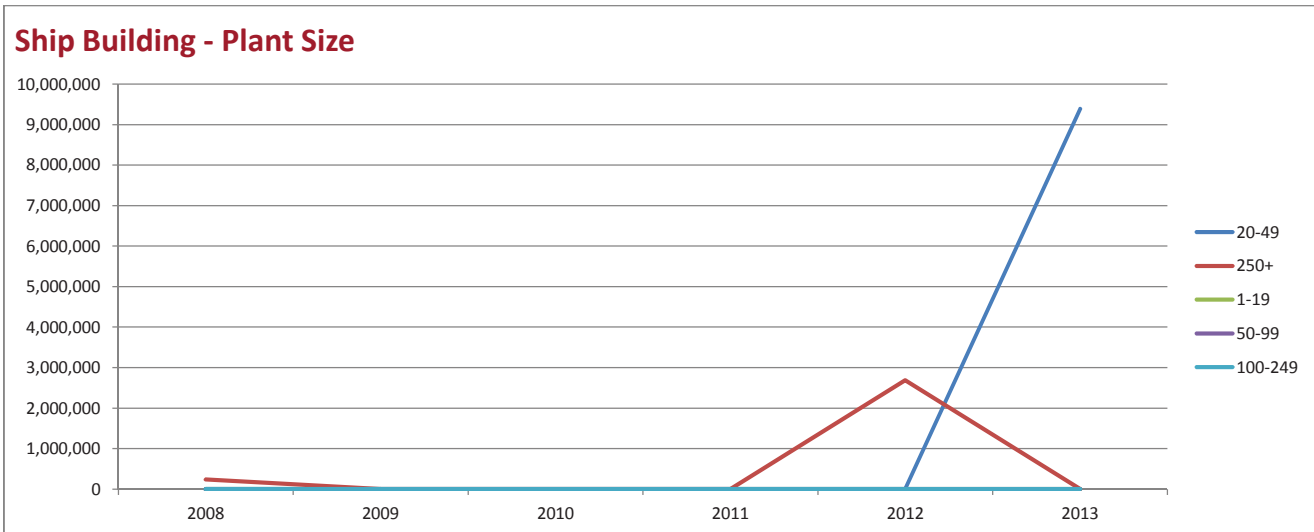
Workholding Type	2008	2009	2010	2011	2012	2013
Other Workholding	11,655	0	0	0	107,539	7,039,778
Grinding Work Load/Unload Devices	0	0	0	0	0	1,055,967
Other Milling/Drilling Processes (in. robots)	0	0	0	0	0	750,910
Other Grinding Workholding	0	0	0	0	0	211,193
Rotating Chucks	0	0	0	0	0	140,796
Automated Systems and Transfer Lines	0	0	0	0	376,386	93,864
Dedicated Fixtures	139,858	0	0	0	376,386	93,864
EDM Tooling	11,655	0	0	0	430,156	0
Other Turning Workholding	41,957	0	0	0	376,386	0
Chucks	27,972	0	0	0	322,617	0
Flexible Fixtures	0	0	0	0	215,078	0
Bar Feeders	0	0	0	0	215,078	0
Other Turning Work Load/Unload Devices (in. robots)	0	0	0	0	161,308	0
Indexing Devices	0	0	0	0	107,539	0
Pallets and Pallet-Handling Devices	0	0	0	0	0	0
Workholding	233,096	0	0	0	2,688,473	9,386,371

Ship Building - Workholding



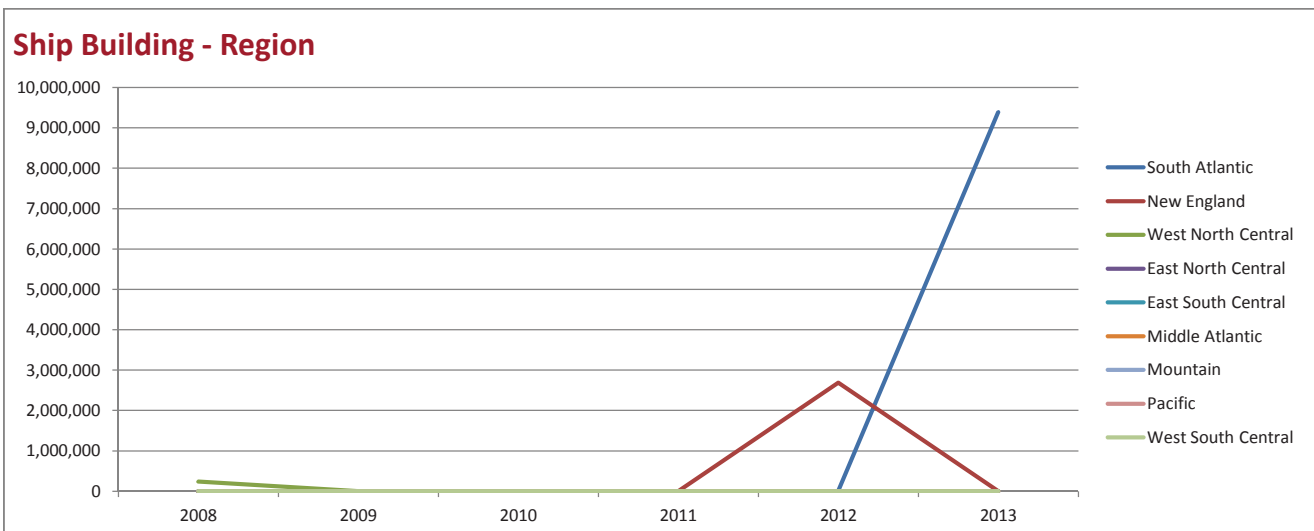
**2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
SHIP BUILDING**

Plant Size	2008	2009	2010	2011	2012	2013
20-49	0	0	0	0	0	9,386,371
250+	233,096	0	0	0	2,688,473	0
1-19	0	0	0	0	0	0
50-99	0	0	0	0	0	0
100-249	0	0	0	0	0	0
All	233,096	0	0	0	2,688,473	9,386,371



Ship Building

Region	2008	2009	2010	2011	2012	2013
South Atlantic	0	0	0	0	0	9,386,371
New England	0	0	0	0	2,688,473	0
West North Central	233,096	0	0	0	0	0
East North Central	0	0	0	0	0	0
East South Central	0	0	0	0	0	0
Middle Atlantic	0	0	0	0	0	0
Mountain	0	0	0	0	0	0
Pacific	0	0	0	0	0	0
West South Central	0	0	0	0	0	0
All	233,096	0	0	0	2,688,473	9,386,371

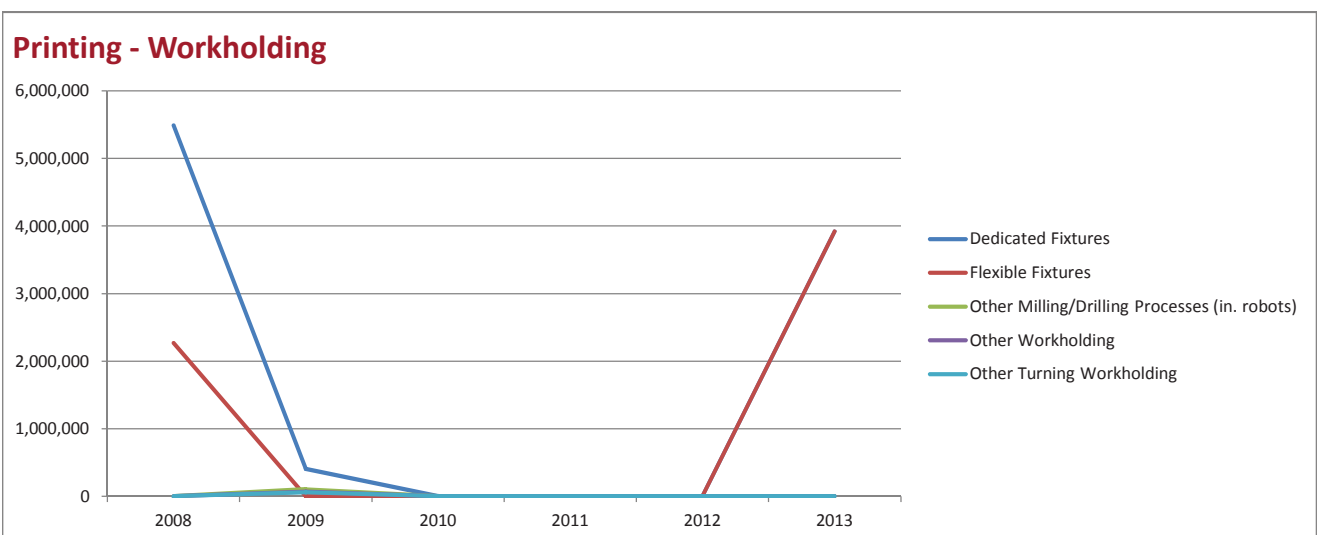


2013

CAPITAL SPENDING Workholding, Industry Trend Report

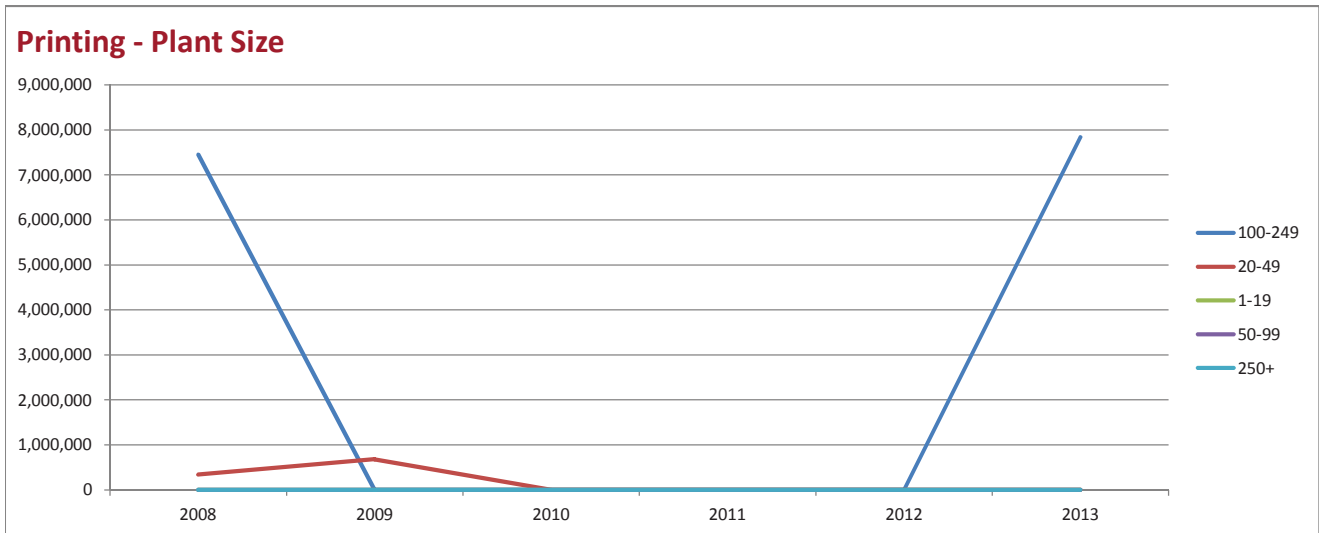
Printing

Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	5,487,056	406,352	0	0	0	3,919,531
Flexible Fixtures	2,269,391	0	0	0	0	3,919,531
Other Milling/Drilling Processes (in. robots)	0	101,588	0	0	0	0
Other Workholding	0	67,725	0	0	0	0
Other Turning Workholding	0	57,567	0	0	0	0
Other Grinding Workholding	0	16,931	0	0	0	0
Rotating Chucks	0	16,931	0	0	0	0
Chucks	0	10,159	0	0	0	0
Indexing Devices	33,849	0	0	0	0	0
Grinding Work Load/Unload Devices	0	0	0	0	0	0
Automated Systems and Transfer Lines	0	0	0	0	0	0
Pallets and Pallet-Handling Devices	0	0	0	0	0	0
EDM Tooling	0	0	0	0	0	0
Bar Feeders	0	0	0	0	0	0
Other Turning Work Load/Unload Devices (in. robots)	0	0	0	0	0	0
Workholding	7,790,296	677,254	0	0	0	7,839,063



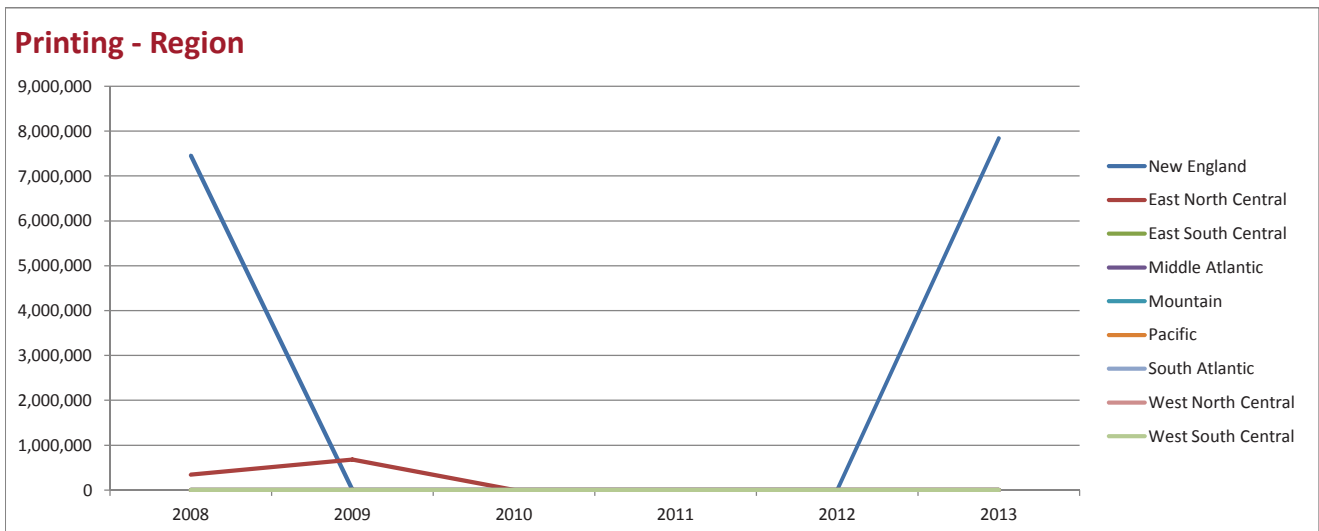
2013 CAPITAL SPENDING
 WORKHOLDING, INDUSTRY TREND REPORT
PRINTING

Plant Size	2008	2009	2010	2011	2012	2013
100-249	7,451,807	0	0	0	0	7,839,063
20-49	338,488	677,254	0	0	0	0
1-19	0	0	0	0	0	0
50-99	0	0	0	0	0	0
250+	0	0	0	0	0	0
All	7,790,296	677,254	0	0	0	7,839,063



Printing

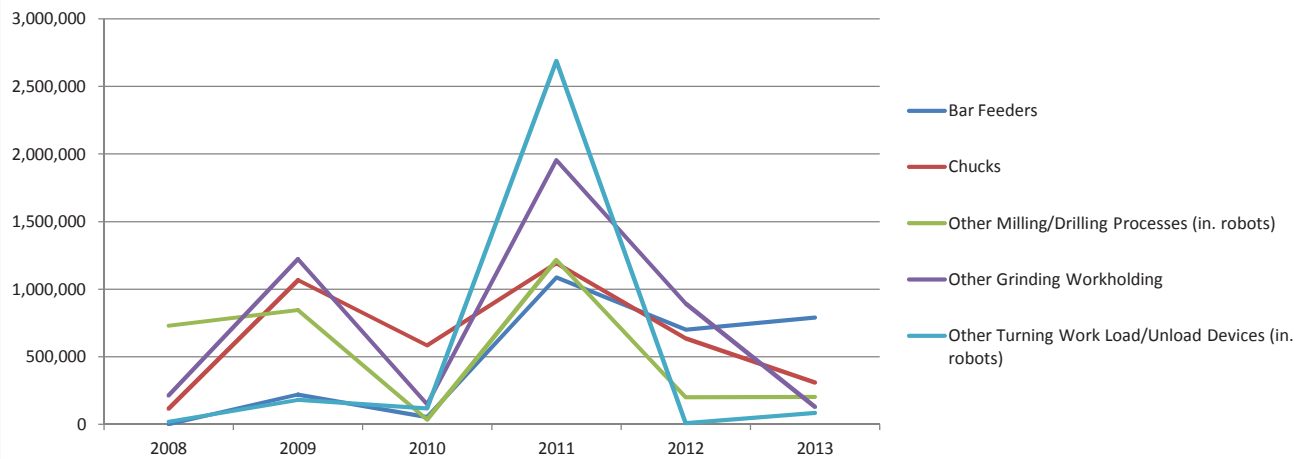
Region	2008	2009	2010	2011	2012	2013
New England	7,451,807	0	0	0	0	7,839,063
East North Central	338,488	677,254	0	0	0	0
East South Central	0	0	0	0	0	0
Middle Atlantic	0	0	0	0	0	0
Mountain	0	0	0	0	0	0
Pacific	0	0	0	0	0	0
South Atlantic	0	0	0	0	0	0
West North Central	0	0	0	0	0	0
West South Central	0	0	0	0	0	0
All	7,790,296	677,254	0	0	0	7,839,063



Plastics and Rubber

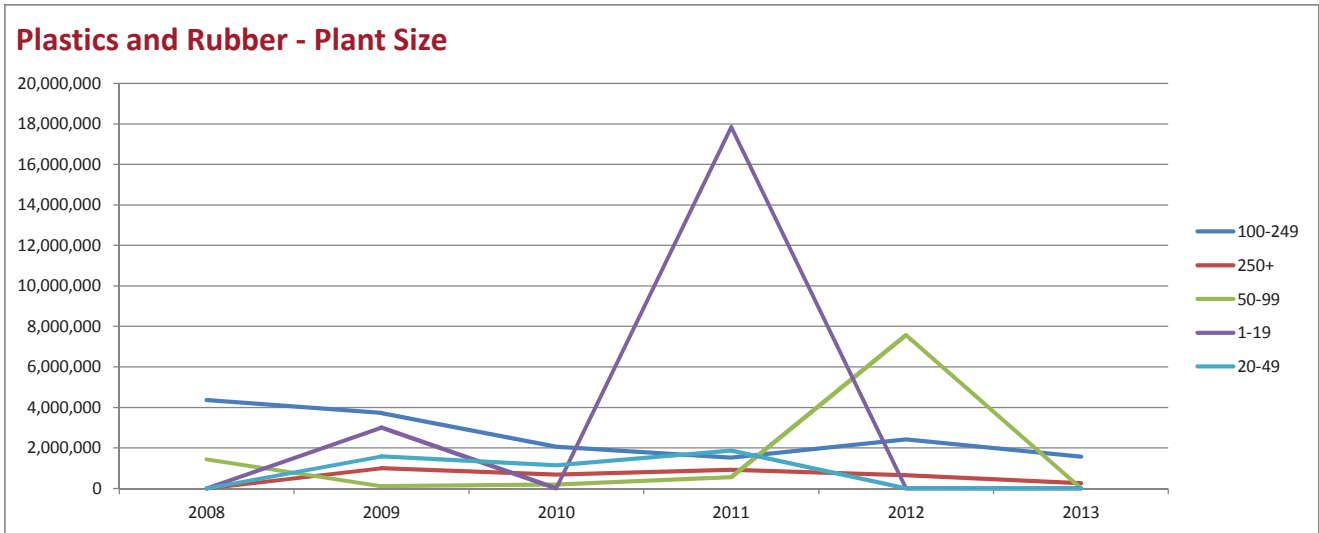
Workholding Type	2008	2009	2010	2011	2012	2013
Bar Feeders	0	219,193	53,547	1,084,641	699,018	788,666
Chucks	114,971	1,066,537	582,977	1,192,927	635,857	308,803
Other Milling/Drilling Processes (in. robots)	729,526	845,045	35,127	1,216,067	200,177	202,086
Other Grinding Workholding	211,844	1,221,327	148,856	1,954,794	893,335	128,225
Other Turning Work Load/Unload Devices (in. robots)	19,162	180,256	117,089	2,689,854	7,171	84,689
Flexible Fixtures	108,583	910,165	875,389	3,089,240	424,766	80,630
EDM Tooling	122,372	295,040	594,013	328,939	4,366,960	61,593
Dedicated Fixtures	274,433	1,499,604	954,275	4,414,503	2,512,010	60,473
Other Workholding	1,101,352	0	0	556,372	8,935	33,596
Rotating Chucks	269,330	52,695	448,467	381,421	279,849	23,517
Automated Systems and Transfer Lines	627,549	1,786,674	17,563	221,887	82,989	20,158
Indexing Devices	646,178	263,438	144,514	2,891,885	116,698	20,158
Other Turning Workholding	1,547,847	937,334	27,996	1,550,958	191,107	10,079
Grinding Work Load/Unload Devices	19,162	105,523	69,806	27,987	79,672	5,039
Pallets and Pallet-Handling Devices	0	25,605	17,563	1,105,146	140,874	0
Workholding	5,792,309	9,408,437	4,087,180	22,706,622	10,639,417	1,827,710

Plastics and Rubber - Workholding



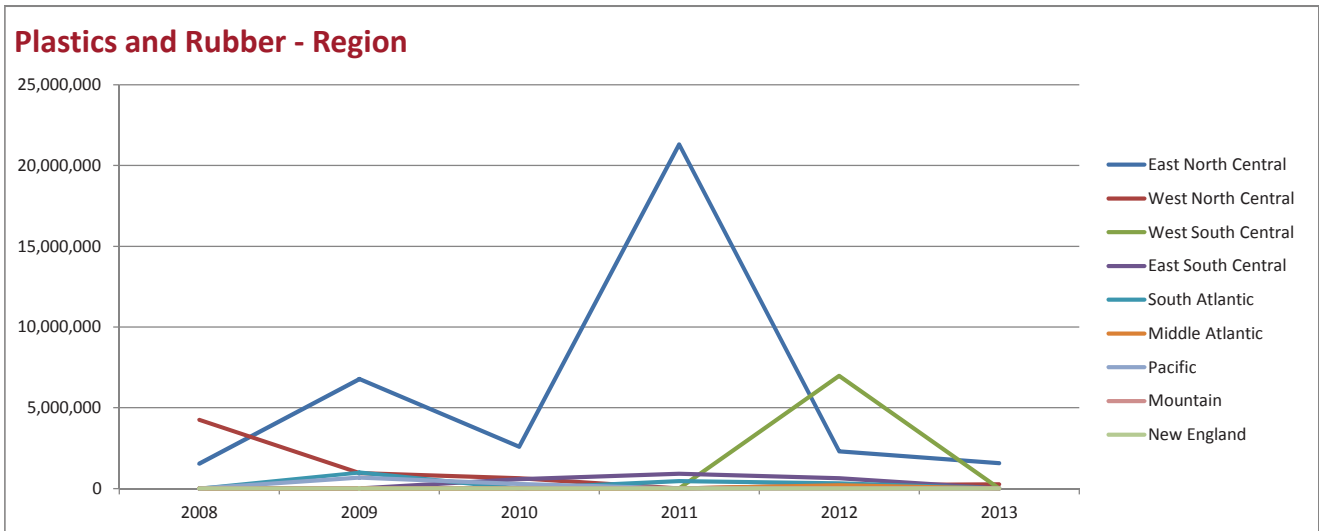
**2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
PLASTICS and RUBBER**

Plant Size	2008	2009	2010	2011	2012	2013
100-249	4,364,630	3,724,345	2,065,166	1,519,585	2,425,314	1,567,813
250+	0	995,235	683,019	926,679	645,234	259,898
50-99	1,427,679	109,077	201,214	554,606	7,568,870	0
1-19	0	2,999,520	0	17,839,923	0	0
20-49	0	1,580,260	1,137,781	1,865,829	0	0
All	5,792,309	9,408,437	4,087,180	22,706,622	10,639,417	1,827,710



Plastics and Rubber

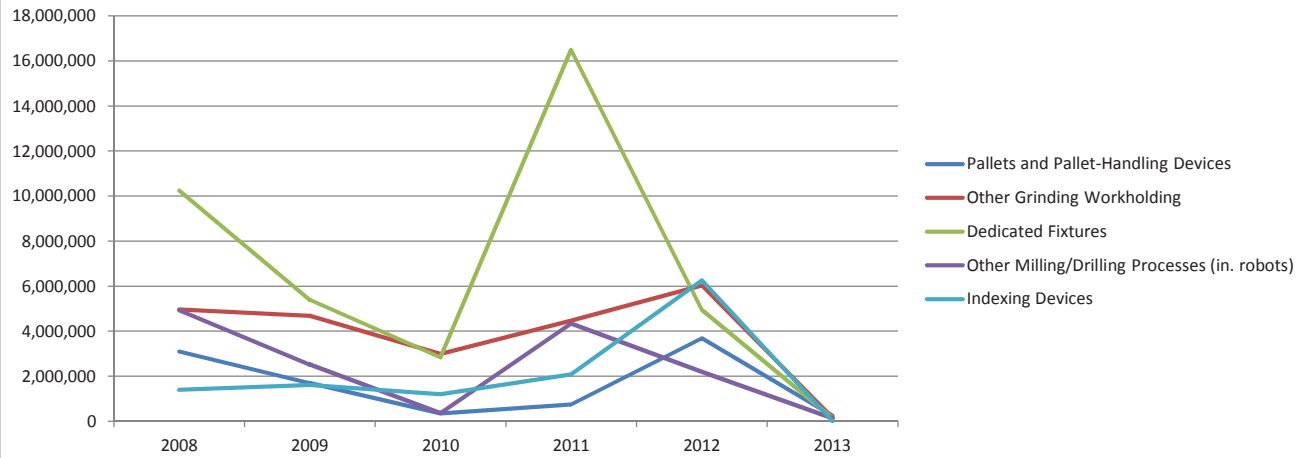
Region	2008	2009	2010	2011	2012	2013
East North Central	1,543,088	6,773,375	2,573,540	21,312,691	2,297,665	1,567,813
West North Central	4,249,221	962,572	643,750	0	199,181	259,898
West South Central	0	0	0	0	6,971,328	0
East South Central	0	0	585,444	926,679	645,234	0
South Atlantic	0	995,235	0	467,251	326,829	0
Middle Atlantic	0	0	0	0	199,181	0
Pacific	0	677,254	284,445	0	0	0
Mountain	0	0	0	0	0	0
New England	0	0	0	0	0	0
All	5,792,309	9,408,437	4,087,180	22,706,622	10,639,417	1,827,710



Custom Processors

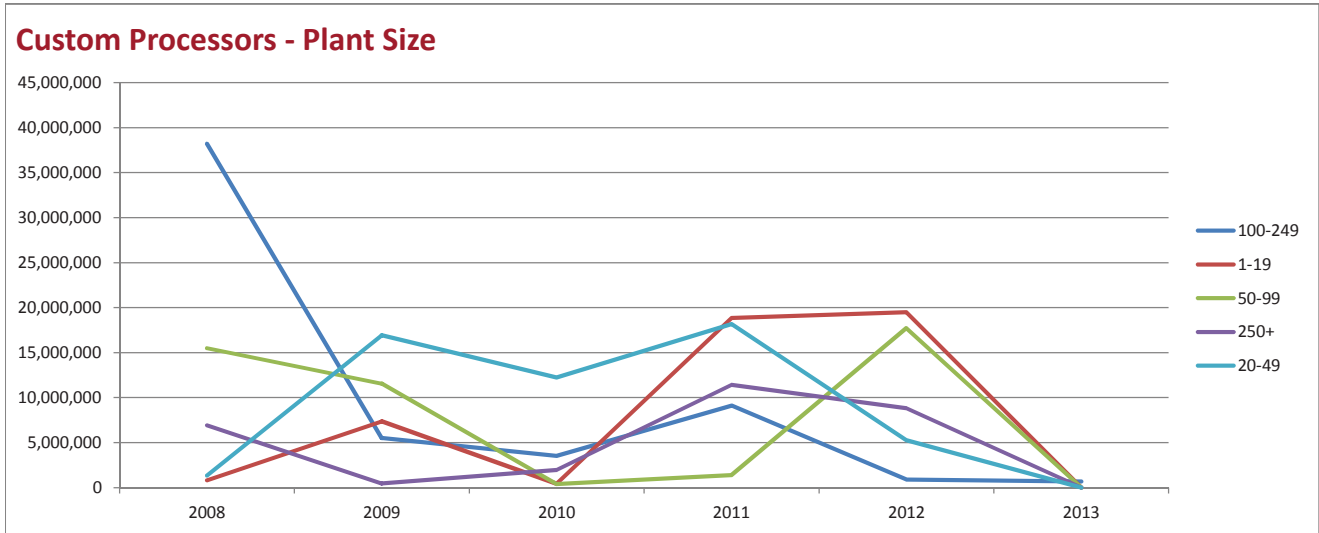
Workholding Type	2008	2009	2010	2011	2012	2013
Pallets and Pallet-Handling Devices	3,100,034	1,696,161	339,186	739,707	3,680,889	251,970
Other Grinding Workholding	4,950,920	4,677,824	2,986,371	4,462,843	6,026,182	167,980
Dedicated Fixtures	10,246,444	5,384,600	2,834,584	16,485,626	4,931,116	125,985
Other Milling/Drilling Processes (in. robots)	4,935,196	2,517,412	360,297	4,332,803	2,197,921	125,985
Indexing Devices	1,391,136	1,605,467	1,199,113	2,081,299	6,264,265	0
Other Workholding	19,056,554	499,180	367,968	5,134,876	4,837,585	0
Other Turning Workholding	2,038,480	2,258,244	1,948,692	3,336,778	4,599,853	0
Chucks	2,515,100	3,660,719	2,682,619	4,332,752	4,352,568	0
Rotating Chucks	361,952	2,762,376	362,252	1,081,928	3,909,981	0
Other Turning Work Load/Unload Devices (in. robots)	1,591,218	1,896,833	965,734	1,424,404	2,928,645	0
Grinding Work Load/Unload Devices	557,031	2,721,866	773,080	3,002,514	2,367,984	0
Flexible Fixtures	1,892,966	7,693,505	1,568,858	7,727,836	2,180,064	0
EDM Tooling	4,919,896	3,292,905	1,898,343	3,346,971	2,061,888	0
Bar Feeders	3,081,574	323,880	17,701	1,012,650	1,221,753	0
Automated Systems and Transfer Lines	2,140,774	842,241	249,744	481,265	671,980	0
Workholding	62,779,275	41,833,211	18,554,543	58,984,251	52,232,671	671,920

Custom Processors - Workholding



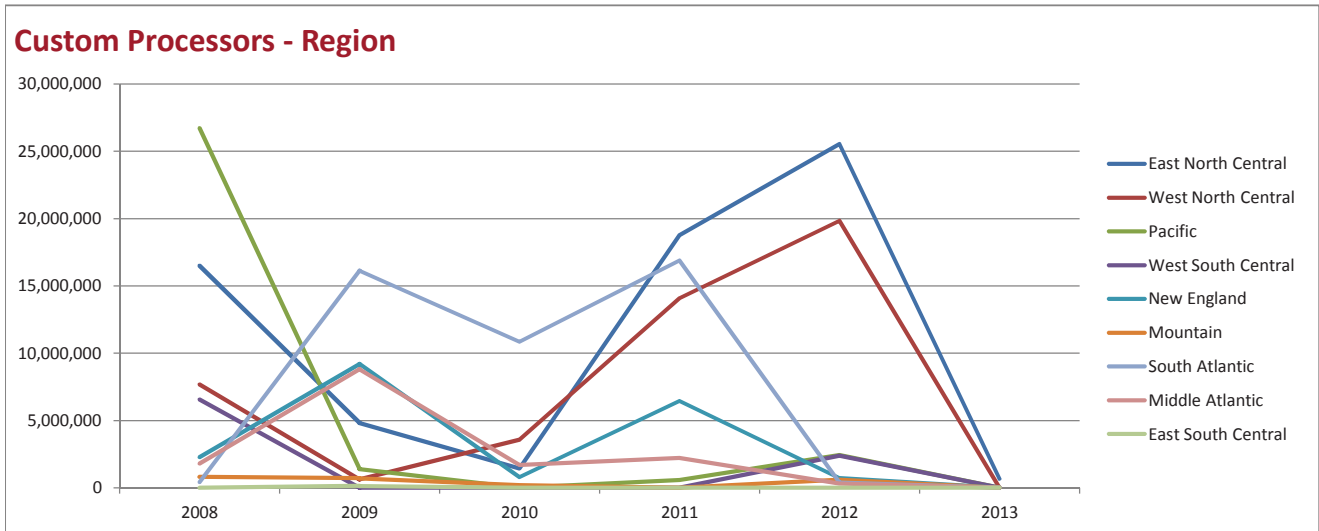
2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
CUSTOM and PROCESSORS

Plant Size	2008	2009	2010	2011	2012	2013
100-249	38,217,126	5,508,927	3,540,285	9,117,509	893,537	671,920
1-19	792,497	7,362,459	429,201	18,859,347	19,506,506	0
50-99	15,500,516	11,562,126	402,428	1,386,515	17,727,091	0
250+	6,915,182	468,346	1,951,482	11,429,047	8,818,192	0
20-49	1,353,953	16,931,354	12,231,147	18,191,832	5,287,345	0
All	62,779,275	41,833,211	18,554,543	58,984,251	52,232,671	671,920



Custom Processors

Region	2008	2009	2010	2011	2012	2013
East North Central	16,499,029	4,813,992	1,438,326	18,771,842	25,535,184	671,920
West North Central	7,664,819	620,724	3,576,414	14,072,439	19,831,909	0
Pacific	26,720,052	1,396,629	0	569,844	2,440,313	0
West South Central	6,565,402	0	0	0	2,384,402	0
New England	2,289,485	9,201,776	791,262	6,442,998	725,190	0
Mountain	804,157	708,990	201,214	0	605,900	0
South Atlantic	425,818	16,139,485	10,840,656	16,895,847	382,944	0
Middle Atlantic	1,810,513	8,815,480	1,706,672	2,231,281	326,829	0
East South Central	0	136,134	0	0	0	0
All	62,779,275	41,833,211	18,554,543	58,984,251	52,232,671	671,920



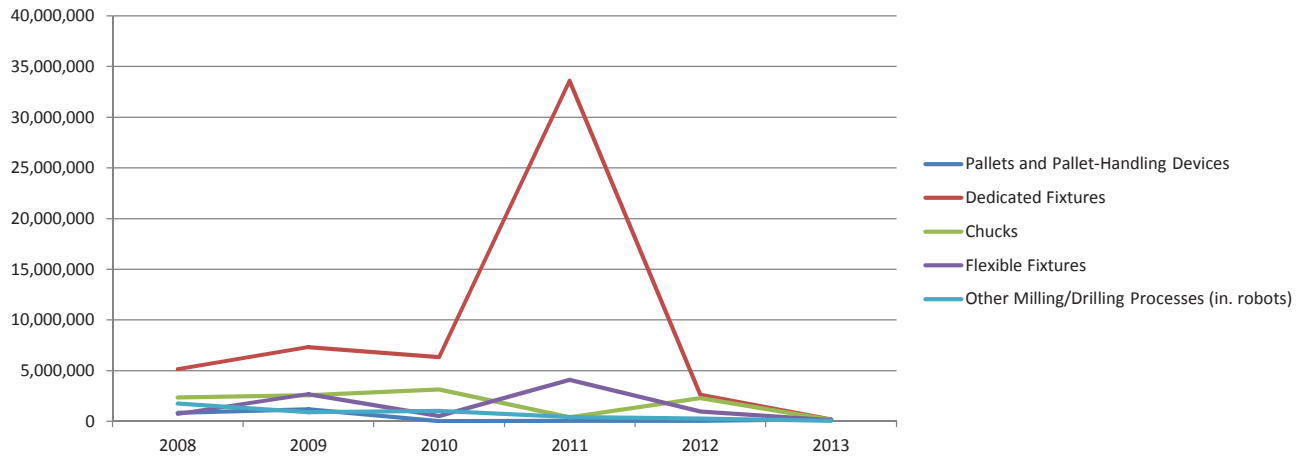
2013

CAPITAL SPENDING Workholding, Industry Trend Report

Primary Metals

Workholding Type	2008	2009	2010	2011	2012	2013
Pallets and Pallet-Handling Devices	810,397	1,179,715	27,164	46,703	53,779	215,014
Dedicated Fixtures	5,137,068	7,308,847	6,329,288	33,603,842	2,607,300	161,261
Chucks	2,338,381	2,566,225	3,125,153	389,577	2,271,044	134,384
Flexible Fixtures	735,320	2,672,043	505,326	4,093,994	968,682	107,507
Other Milling/Drilling Processes (in. robots)	1,740,450	883,668	1,037,355	415,719	252,125	53,754
Indexing Devices	423,747	813,438	56,139	304,682	5,424,612	0
Other Turning Workholding	676,040	2,522,211	92,355	28,837,231	633,328	0
Rotating Chucks	126,933	447,931	25,353	0	531,510	0
Other Grinding Workholding	579,220	4,154,948	244,029	1,423,867	279,452	0
Automated Systems and Transfer Lines	6,428,919	212,914	85,114	3,414,040	277,198	0
EDM Tooling	101,546	361,347	146,067	363,606	258,809	0
Bar Feeders	2,310,182	19,634	396,241	0	92,399	0
Other Workholding	4,449,595	2,061,322	150,390	10,552,020	45,277	0
Other Turning Work Load/Unload Devices (in. robots)	364,990	1,166,690	119,521	210,047	25,809	0
Grinding Work Load/Unload Devices	266,118	359,122	59,404	183,515	12,905	0
Workholding	26,488,908	26,730,056	12,398,898	83,838,844	13,734,229	671,920

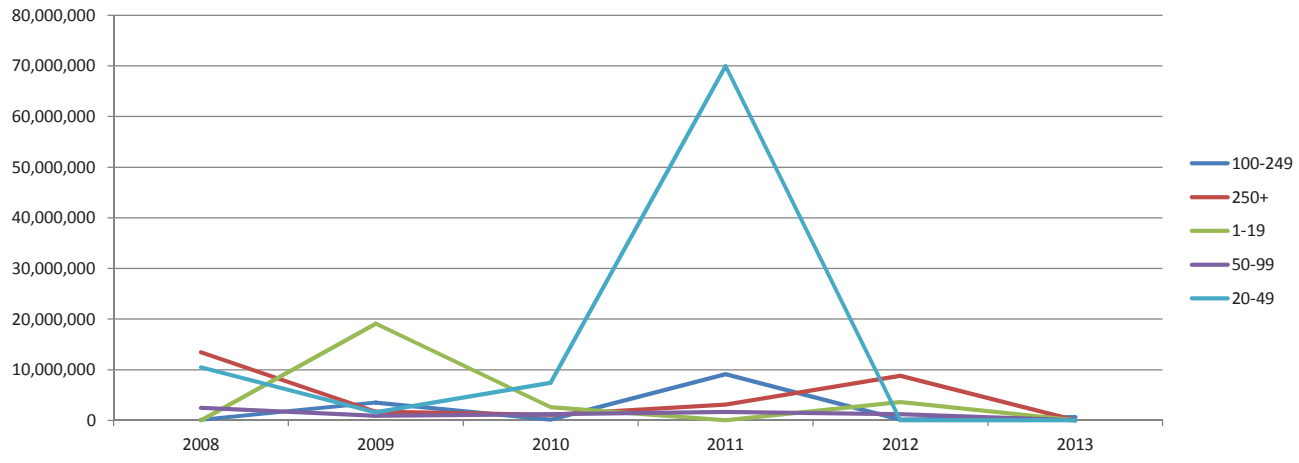
Primary Metals - Workholding



2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
PRIMARY METALS

Plant Size	2008	2009	2010	2011	2012	2013
100-249	106,454	3,491,574	147,512	9,117,509	127,648	671,920
250+	13,441,871	1,697,754	1,073,315	3,088,932	8,818,192	0
1-19	0	19,087,855	2,575,209	0	3,593,304	0
50-99	2,447,450	872,613	1,207,285	1,663,818	1,195,085	0
20-49	10,493,132	1,580,260	7,395,577	69,968,584	0	0
All	26,488,908	26,730,056	12,398,898	83,838,844	13,734,229	671,920

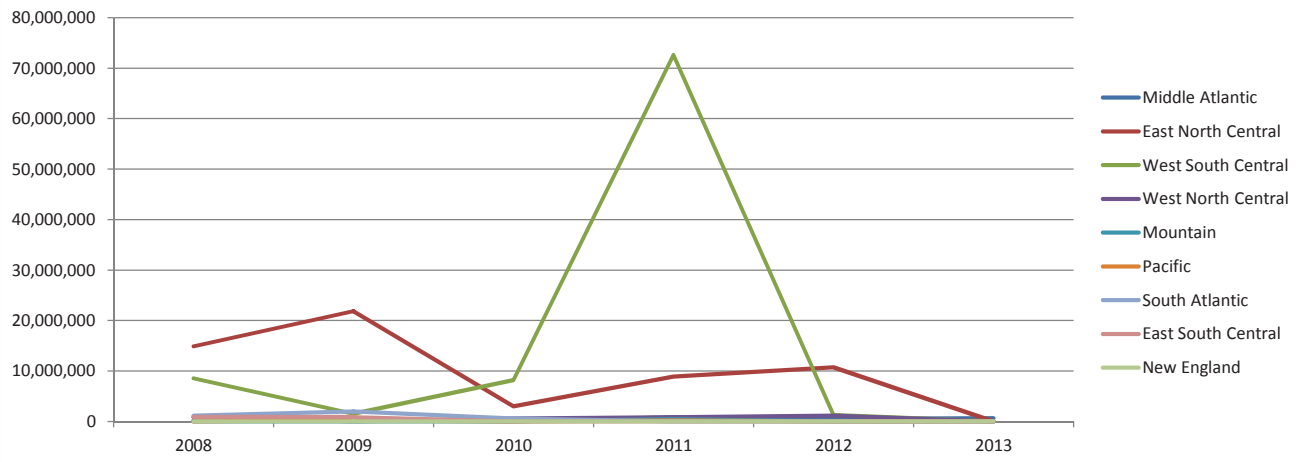
Primary Metals - Plant Size



Primary Metals

Region	2008	2009	2010	2011	2012	2013
Middle Atlantic	203,954	284,706	0	831,909	513,329	671,920
East North Central	14,913,762	21,863,459	3,007,166	8,927,561	10,735,348	0
West South Central	8,539,902	1,522,124	8,184,447	72,594,176	1,290,467	0
West North Central	854,685	0	603,643	831,909	1,195,085	0
Mountain	0	0	0	463,340	0	0
Pacific	0	232,772	0	189,948	0	0
South Atlantic	1,121,919	1,973,499	603,643	0	0	0
East South Central	854,685	853,496	0	0	0	0
New England	0	0	0	0	0	0
All	26,488,908	26,730,056	12,398,898	83,838,844	13,734,229	671,920

Primary Metals - Region



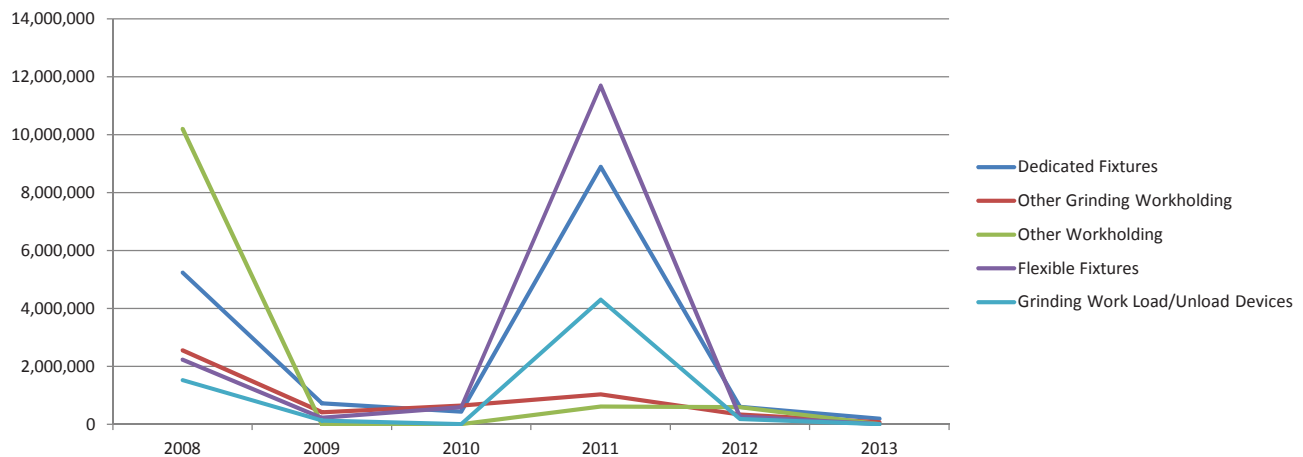
2013

CAPITAL SPENDING Workholding, Industry Trend Report

Non-Manufacturing

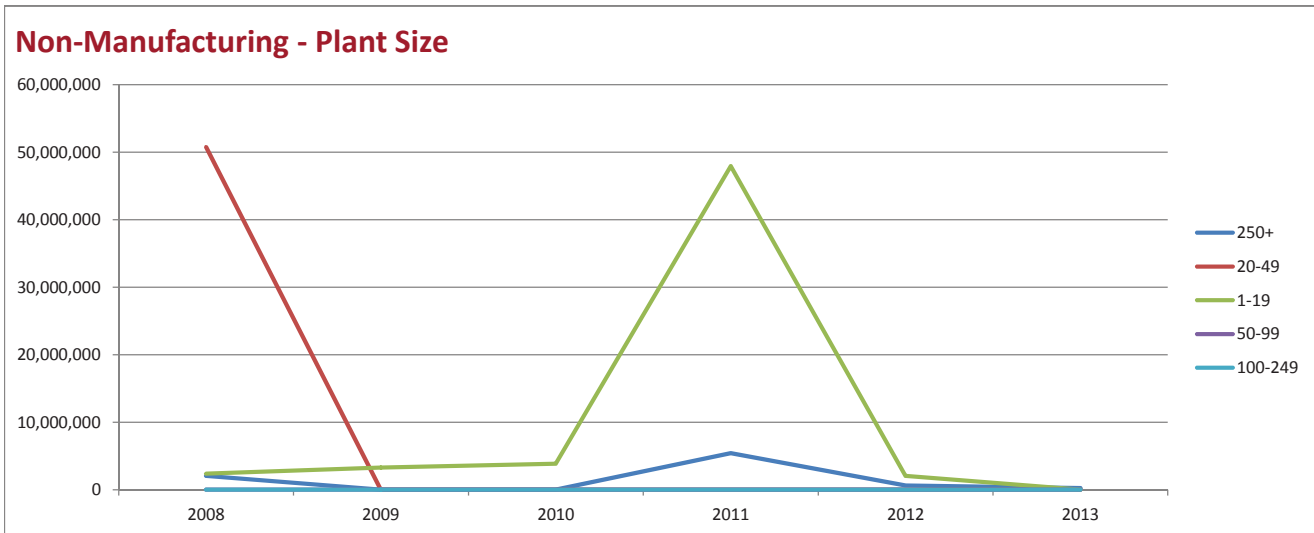
Workholding Type	2008	2009	2010	2011	2012	2013
Dedicated Fixtures	5,236,322	725,611	437,786	8,894,140	598,328	194,923
Other Grinding Workholding	2,546,431	417,206	643,802	1,032,167	340,259	64,974
Other Workholding	10,197,378	0	0	617,020	585,195	0
Flexible Fixtures	2,236,444	220,874	592,298	11,696,685	266,327	0
Grinding Work Load/Unload Devices	1,523,197	130,888	0	4,304,518	184,798	0
Automated Systems and Transfer Lines	3,046,393	335,401	206,017	1,070,395	138,599	0
Rotating Chucks	1,015,464	261,776	0	672,820	123,199	0
Other Turning Workholding	3,767,411	306,769	1,239,319	10,719,916	123,199	0
Other Turning Work Load/Unload Devices (in. robots)	8,123,715	57,264	0	1,162,278	92,399	0
Other Milling/Drilling Processes (in. robots)	4,579,302	32,722	51,504	1,286,621	76,848	0
Chucks	3,284,142	233,145	627,707	4,017,068	61,599	0
Indexing Devices	1,760,946	149,703	0	3,644,911	46,200	0
EDM Tooling	0	286,318	64,380	3,022,593	30,800	0
Bar Feeders	6,330,536	81,805	0	107,040	30,800	0
Pallets and Pallet-Handling Devices	1,523,197	32,722	0	1,070,395	0	0
Workholding	55,170,878	3,272,204	3,862,813	53,318,565	2,698,550	259,898

Non-Manufacturing - Workholding



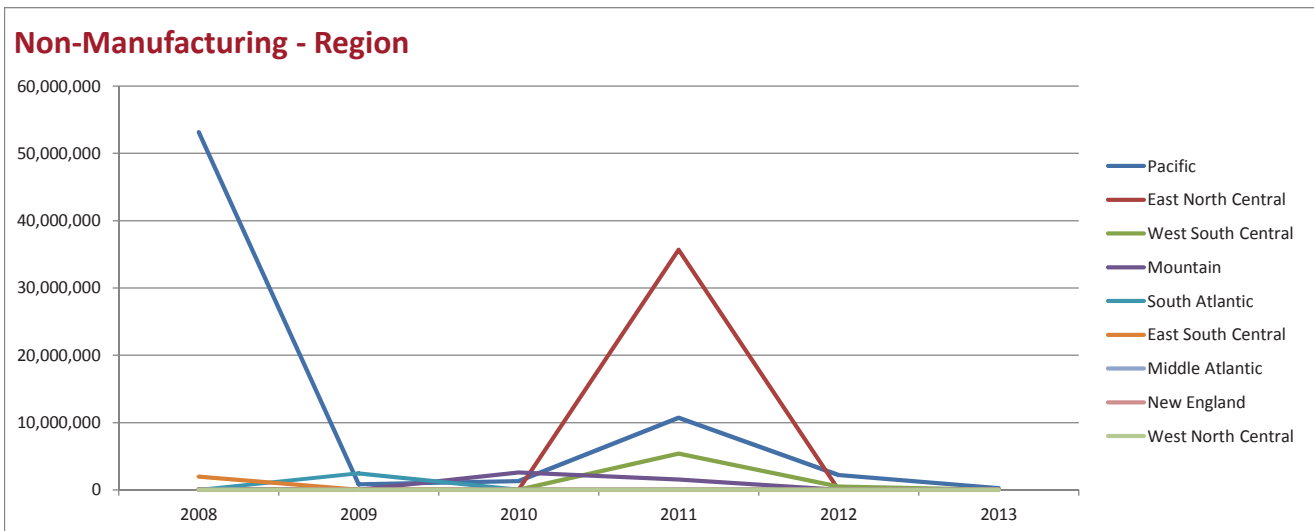
2013 CAPITAL SPENDING
WORKHOLDING, INDUSTRY TREND REPORT
NON-MANUFACTURING

Plant Size	2008	2009	2010	2011	2012	2013
250+	2,020,166	0	0	5,405,630	645,234	259,898
20-49	50,773,221	0	0	0	0	0
1-19	2,377,492	3,272,204	3,862,813	47,912,935	2,053,316	0
50-99	0	0	0	0	0	0
100-249	0	0	0	0	0	0
All	55,170,878	3,272,204	3,862,813	53,318,565	2,698,550	259,898



Non-Manufacturing

Region	2008	2009	2010	2011	2012	2013
Pacific	53,150,712	818,051	1,287,604	10,703,954	2,185,221	259,898
East North Central	77,699	0	0	35,679,845	0	0
West South Central	0	0	0	5,405,630	513,329	0
Mountain	0	0	2,575,209	1,529,136	0	0
South Atlantic	0	2,454,153	0	0	0	0
East South Central	1,942,467	0	0	0	0	0
Middle Atlantic	0	0	0	0	0	0
New England	0	0	0	0	0	0
West North Central	0	0	0	0	0	0
All	55,170,878	3,272,204	3,862,813	53,318,565	2,698,550	259,898



2013 CAPITAL SPENDING

Workholding, Industry Trend Report



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