

**MKS INSTRUMENTS, INC.**  
**GAAP REVENUE BY DIVISION AND MARKET**  
**2016-2019**  
(in 000's)

QUARTER ENDED	Equipment & Solutions Division (1)		Light & Motion Division (2)		Vacuum & Analysis Division		Consolidated MKS	
	REVENUE	% TOTAL	REVENUE	% TOTAL	REVENUE	% TOTAL	REVENUE	% TOTAL
Semiconductor Market	0	0.0%	0	0.0%	134,676	73.3%	134,676	73.3%
Advanced Markets	0	0.0%	0	0.0%	49,005	26.7%	49,005	26.7%
<b>Q1-16</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>	<b>183,681</b>	<b>100.0%</b>	<b>183,681</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	21,934	18.5%	147,082	70.9%	169,015	51.9%
Advanced Markets	0	0.0%	96,561	81.5%	60,286	29.1%	156,846	48.1%
<b>Q2-16</b>	<b>0</b>	<b>0.0%</b>	<b>118,494</b>	<b>100.0%</b>	<b>207,367</b>	<b>100.0%</b>	<b>325,861</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	28,560	18.9%	172,736	75.4%	201,296	52.9%
Advanced Markets	0	0.0%	122,877	81.1%	56,486	24.6%	179,363	47.1%
<b>Q3-16</b>	<b>0</b>	<b>0.0%</b>	<b>151,437</b>	<b>100.0%</b>	<b>229,223</b>	<b>100.0%</b>	<b>380,660</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	28,285	18.5%	190,215	75.4%	218,500	53.9%
Advanced Markets	0	0.0%	124,708	81.5%	61,933	24.6%	186,641	46.1%
<b>Q4-16</b>	<b>0</b>	<b>0.0%</b>	<b>152,993</b>	<b>100.0%</b>	<b>252,148</b>	<b>100.0%</b>	<b>405,140</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	78,778	18.6%	644,709	73.9%	723,487	55.9%
Advanced Markets	0	0.0%	344,145	81.4%	227,710	26.1%	571,855	44.1%
<b>2016 YTD TOTAL</b>	<b>0</b>	<b>0.0%</b>	<b>422,924</b>	<b>100.0%</b>	<b>872,420</b>	<b>100.0%</b>	<b>1,295,342</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	29,700	18.7%	218,804	78.7%	248,504	56.8%
Advanced Markets	0	0.0%	129,393	81.3%	59,257	21.3%	188,650	43.2%
<b>Q1-17</b>	<b>0</b>	<b>0.0%</b>	<b>159,093</b>	<b>100.0%</b>	<b>278,060</b>	<b>100.0%</b>	<b>437,153</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	36,426	21.3%	246,092	79.4%	282,518	58.8%
Advanced Markets	0	0.0%	134,446	78.7%	63,793	20.6%	198,239	41.2%
<b>Q2-17</b>	<b>0</b>	<b>0.0%</b>	<b>170,872</b>	<b>100.0%</b>	<b>309,885</b>	<b>100.0%</b>	<b>480,757</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	34,137	19.2%	246,511	80.0%	280,649	57.7%
Advanced Markets	0	0.0%	143,860	80.8%	61,758	20.0%	205,618	42.3%
<b>Q3-17</b>	<b>0</b>	<b>0.0%</b>	<b>177,998</b>	<b>100.0%</b>	<b>308,269</b>	<b>100.0%</b>	<b>486,267</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	36,001	18.0%	248,290	79.8%	284,291	55.5%
Advanced Markets	0	0.0%	164,557	82.0%	62,952	20.2%	227,509	44.5%
<b>Q4-17</b>	<b>0</b>	<b>0.0%</b>	<b>200,557</b>	<b>100.0%</b>	<b>311,242</b>	<b>100.0%</b>	<b>511,800</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	136,264	19.2%	959,697	79.5%	1,095,961	57.2%
Advanced Markets	0	0.0%	572,256	80.8%	247,759	20.5%	820,015	42.8%
<b>2017 YTD TOTAL</b>	<b>0</b>	<b>0.0%</b>	<b>708,520</b>	<b>100.0%</b>	<b>1,207,457</b>	<b>100.0%</b>	<b>1,915,977</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	37,813	18.4%	275,701	79.1%	313,514	56.6%
Advanced Markets	0	0.0%	168,118	81.6%	72,643	20.9%	240,761	43.4%
<b>Q1-18</b>	<b>0</b>	<b>0.0%</b>	<b>205,931</b>	<b>100.0%</b>	<b>348,344</b>	<b>100.0%</b>	<b>554,275</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	39,493	19.3%	296,917	80.6%	336,410	58.7%
Advanced Markets	0	0.0%	165,320	80.7%	71,410	19.4%	236,730	41.3%
<b>Q2-18</b>	<b>0</b>	<b>0.0%</b>	<b>204,812</b>	<b>100.0%</b>	<b>368,327</b>	<b>100.0%</b>	<b>573,140</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	41,273	20.5%	218,180	76.3%	259,453	53.3%
Advanced Markets	0	0.0%	159,841	79.5%	67,858	23.7%	227,699	46.7%
<b>Q3-18</b>	<b>0</b>	<b>0.0%</b>	<b>201,114</b>	<b>100.0%</b>	<b>286,038</b>	<b>100.0%</b>	<b>487,152</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	40,111	19.8%	194,405	75.3%	234,515	50.9%
Advanced Markets	0	0.0%	162,278	80.2%	63,748	24.7%	226,026	49.1%
<b>Q4-18</b>	<b>0</b>	<b>0.0%</b>	<b>202,388</b>	<b>100.0%</b>	<b>258,153</b>	<b>100.0%</b>	<b>460,541</b>	<b>100.0%</b>
Semiconductor Market	0	0.0%	158,689	19.5%	985,203	78.1%	1,143,892	55.1%
Advanced Markets	0	0.0%	655,557	80.5%	275,659	21.9%	931,216	44.9%
<b>2018 YTD TOTAL</b>	<b>0</b>	<b>0.0%</b>	<b>814,246</b>	<b>100.0%</b>	<b>1,260,862</b>	<b>100.0%</b>	<b>2,075,108</b>	<b>100.0%</b>
Semiconductor Market	6,585	18.7%	36,897	19.0%	176,859	75.5%	220,341	47.5%
Advanced Markets	28,634	81.3%	157,091	81.0%	57,495	24.5%	243,220	52.5%
<b>Q1-19</b>	<b>35,218</b>	<b>100.0%</b>	<b>193,988</b>	<b>100.0%</b>	<b>234,355</b>	<b>100.0%</b>	<b>463,561</b>	<b>100.0%</b>
Semiconductor Market	3,703	6.6%	34,045	18.6%	176,267	74.8%	214,015	45.1%
Advanced Markets	52,174	93.4%	148,534	81.4%	59,388	25.2%	260,096	54.9%
<b>Q2-19</b>	<b>55,877</b>	<b>100.0%</b>	<b>182,579</b>	<b>100.0%</b>	<b>235,655</b>	<b>100.0%</b>	<b>474,111</b>	<b>100.0%</b>
Semiconductor Market	6,852	13.9%	33,879	19.6%	182,173	75.7%	222,903	48.2%
Advanced Markets	42,456	86.1%	138,582	80.4%	58,509	24.3%	239,546	51.8%
<b>Q3-19</b>	<b>49,308</b>	<b>100.0%</b>	<b>172,460</b>	<b>100.0%</b>	<b>240,681</b>	<b>100.0%</b>	<b>462,449</b>	<b>100.0%</b>
Semiconductor Market	15,089	34.9%	39,486	22.4%	216,792	77.5%	271,367	54.3%
Advanced Markets	28,189	65.1%	137,057	77.6%	63,040	22.5%	228,285	45.7%
<b>Q4-19</b>	<b>43,277</b>	<b>100.0%</b>	<b>176,543</b>	<b>100.0%</b>	<b>279,831</b>	<b>100.0%</b>	<b>499,651</b>	<b>100.0%</b>
Semiconductor Market	32,229	17.5%	144,307	19.9%	752,091	75.9%	928,626	48.9%
Advanced Markets	151,452	82.5%	581,263	80.1%	238,432	24.1%	971,147	51.1%
<b>2019 YTD TOTAL</b>	<b>183,680</b>	<b>100.0%</b>	<b>725,570</b>	<b>100.0%</b>	<b>990,523</b>	<b>100.0%</b>	<b>1,899,773</b>	<b>100.0%</b>

(1) MKS acquired Electro Scientific Industries, Inc. on February 1, 2019. This is now called the Equipment & Solutions Division.

(2) MKS acquired Newport Corporation, Inc. on April 29, 2016. This is now called the Light & Motion Division.