

**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  | 17,140                             | 12.2%         | 104,821                     | 19.1%         | 535,299                    | 75.3%         | 657,259          | 46.9%         |
| Advanced Markets      | 123,263                            | 87.8%         | 444,206                     | 80.9%         | 175,392                    | 24.7%         | 742,862          | 53.1%         |
| <b>2019 YTD TOTAL</b> | <b>140,403</b>                     | <b>100.0%</b> | <b>549,027</b>              | <b>100.0%</b> | <b>710,691</b>             | <b>100.0%</b> | <b>1,400,121</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.