

TABLE 92

Use of specialized equipment as a production technology for goods and services, by industry: 2016–18

(Number and percent)

| Industry | NAICS code | Companies (number) | Did not use | Tested, but not used in production or service | Low use | Moderate use | High use | Don't know |
|--|-------------------------|--------------------|-------------|---|---------|--------------|----------|------------|
| All industries | 11, 21–23, 31–33, 42–81 | 4,805,151 | 75.9 | 0.3 | 5.3 | 6.9 | 5.6 | 6.0 |
| Manufacturing industries | 31–33 | 217,565 | 54.2 | 0.6 | 7.3 | 15.0 | 16.5 | 6.4 |
| Food | 311 | 18,250 | 62.9 | 0.5 | 5.5 | 11.6 | 11.6 | 7.9 |
| Beverage and tobacco products | 312 | 7,723 | 50.8 | 0.4 | 9.7 | 15.6 | 19.1 | 4.4 |
| Textile, apparel, and leather products | 313–16 | 10,554 | 63.1 | 0.3 r | 5.5 | 10.8 | 13.0 | 7.3 |
| Wood products | 321 | 11,012 | 64.6 | 0.2 r | 6.1 | 10.9 | 13.1 | 5.1 |
| Paper | 322 | 2,117 | 56.4 | D | 4.3 | 15.8 | 15.0 | 8.4 |
| Printing and related support activities | 323 | 20,851 | 55.5 | 0.2 | 7.7 | 14.1 | 16.9 | 5.6 |
| Petroleum and coal products | 324 | 583 | 52.1 | 0.0 | 8.2 | 14.9 | 20.1 | 4.6 |
| Chemicals | 325 | 7,522 | 52.5 | 0.6 | 8.0 | 15.4 | 15.8 | 7.7 |
| Pesticide, fertilizer, and other agricultural chemical manufacturing | 3253 | 593 | 56.1 | 0.0 | 6.1 r | 23.0 | 6.7 r | 8.1 |
| Pharmaceuticals and medicines | 3254 | 1,365 | 45.3 | 1.2 r | 5.9 | 19.7 | 20.9 | 7.1 |
| Soap, cleaning compound, and toilet preparation manufacturing | 3256 | 1,636 | 56.4 | 0.5 | 10.9 | 13.0 | 11.9 | 7.3 |
| Other chemicals | other 325 | 3,927 | 52.7 | 0.6 | 7.7 | 13.8 | 17.1 | 8.1 |
| Plastics and rubber products | 326 | 8,087 | 44.8 | 1.5 r | 7.7 | 21.7 | 18.2 | 6.0 |
| Nonmetallic mineral products | 327 | 7,749 | 63.3 | 0.7 r | 7.2 | 11.3 | 11.3 | 6.2 |
| Primary metals | 331 | 2,537 | 47.5 | 1.0 r | 4.6 | 20.6 | 18.6 | 7.7 |
| Fabricated metal products | 332 | 48,472 | 52.2 | 0.5 | 6.1 | 15.8 | 19.6 | 5.8 |
| Machinery | 333 | 18,558 | 47.3 | 0.8 | 11.1 | 16.3 | 18.4 | 6.0 |
| Computer and electronic products | 334 | 9,036 | 43.9 | 1.4 | 11.3 | 17.6 | 19.2 | 6.5 |
| Communications equipment | 3342 | 974 | 44.5 | D | 9.9 | 24.0 | 16.0 | 4.3 |
| Semiconductor and other electronic components | 3344 | 2,796 | 38.7 | 0.9 | 11.0 | 18.7 | 21.9 | 8.8 |
| Navigational, measuring, electromedical, and control instruments | 3345 | 3,909 | 43.4 | 1.6 r | 12.0 | 17.5 | 19.9 | 5.6 |
| Other computer and electronic products | other 334 | 1,359 | 55.6 | 1.9 r | 11.0 | 11.0 | 14.2 | 6.2 |
| Electrical equipment, appliances, and components | 335 | 4,000 | 48.2 | 0.8 | 14.6 | 16.6 | 14.2 | 5.6 |
| Transportation equipment | 336 | 7,175 | 52.0 | 1.0 | 8.2 | 15.8 | 14.7 | 8.3 |
| Automobiles, bodies, trailers, and parts | 3361–63 | 4,565 | 49.9 | 1.0 r | 8.7 | 17.7 | 14.0 | 8.8 |
| Aerospace products and parts | 3364 | 985 | 43.1 | 1.3 r | 8.6 | 16.4 | 22.4 | 8.1 |
| Other transportation | other 336 | 1,625 | 63.3 | D | 6.3 | 10.1 | 12.2 | 7.3 |
| Furniture and related products | 337 | 12,647 | 59.3 | 0.3 r | 5.1 | 15.4 | 14.4 | 5.5 |
| Miscellaneous | 339 | 20,669 | 52.5 | 0.5 | 6.5 | 15.6 | 16.9 | 8.0 |
| Medical equipment and supplies | 3391 | 8,060 | 45.9 | 1.0 r | 6.1 | 16.1 | 20.4 | 10.6 |
| Other miscellaneous manufacturing | 3399 | 12,608 | 56.7 | 0.3 r | 6.8 | 15.3 | 14.6 | 6.3 |
| Nonmanufacturing industries | 11, 21–23, 42–81 | 4,587,586 | 76.9 | 0.3 | 5.2 | 6.5 | 5.1 | 6.0 |
| Agriculture, forestry, fishing, and hunting | 11 | 21,606 | 76.0 | 0.0 | 4.4 | 6.3 | 9.1 | 4.2 |
| Mining, extraction, and support activities | 21 | 14,969 | 77.8 | 0.1 | 5.4 | 5.3 | 6.1 | 5.3 |
| Utilities | 22 | 2,684 | 69.5 | 0.2 r | 6.3 | 13.4 | 5.6 | 4.9 |
| Construction | 23 | 613,110 | 77.0 | 0.3 | 5.9 | 7.1 | 4.2 | 5.5 |
| Wholesale trade | 42 | 257,153 | 79.4 | 0.4 | 5.2 | 6.2 | 3.4 | 5.4 |
| Retail trade | 44–45 | 560,952 | 78.4 | 0.3 | 5.3 | 5.8 | 3.6 | 6.6 |
| Transportation and warehousing | 48–49 | 152,463 | 78.8 | 0.2 | 4.8 | 5.2 | 3.9 | 7.1 |
| Information | 51 | 61,638 | 70.2 | 0.6 | 5.6 | 8.1 | 8.8 | 6.7 |

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|--|------------|--------------------|-------------|---|---------|--------------|----------|------------|
| Publishing | 511 | 17,590 | 80.8 | 0.7 | 5.1 | 3.7 | 3.4 | 6.3 |
| Newspaper, periodical, book, and directory publishers | 5111 | 9,761 | 85.2 | D | 3.4 | 3.3 | 3.9 | 4.2 |
| Software publishers | 5112 | 7,828 | 75.4 | 1.5 r | 7.2 | 4.3 | 2.8 | 8.8 |
| Telecommunications | 517 | 7,164 | 64.1 | 1.2 | 9.1 | 9.2 | 4.8 | 11.6 |
| Data processing, hosting, and related services | 518 | 8,918 | 74.2 | 0.8 | 5.3 | 8.1 | 5.3 | 6.3 |
| Other information | other 51 | 27,965 | 63.8 | 0.4 | 5.0 | 10.6 | 14.3 | 5.9 |
| Finance and insurance | 52 | 200,857 | 87.8 | 0.1 | 2.8 | 2.4 | 1.0 | 5.9 |
| Real estate and rental and leasing | 53 | 255,783 | 88.3 | 0.2 | 3.1 | 2.3 | 1.0 | 5.1 |
| Lessors of nonfinancial intangible assets (except copyrighted works) | 533 | 1,812 | 87.3 | 0.0 | D | D | D | 5.6 r |
| Other real estate and rental and leasing | other 53 | 253,970 | 88.3 | 0.2 | 3.1 | 2.3 | 1.0 | 5.1 |
| Professional, scientific, and technical services | 54 | 695,672 | 79.2 | 0.5 | 5.2 | 5.7 | 4.4 | 5.0 |
| Legal services | 5411 | 152,243 | 88.9 | 0.1 | 3.1 | 2.1 | 0.6 | 5.2 |
| Accounting, tax preparation, bookkeeping, and payroll services | 5412 | 106,634 | 86.2 | 0.1 r | 3.6 | 3.3 | 2.0 | 4.8 |
| Architectural, engineering, and related services | 5413 | 88,491 | 61.0 | 0.5 | 10.0 | 12.4 | 10.3 | 5.8 |
| Specialized design services | 5414 | 26,282 | 79.3 | 0.5 r | 5.2 | 6.4 | 4.6 | 4.0 |
| Computer systems design and related services | 5415 | 95,950 | 78.5 | 1.1 | 6.2 | 5.6 | 3.2 | 5.4 |
| Management, scientific, and technical consulting services | 5416 | 132,989 | 85.7 | 0.5 | 4.0 | 3.2 | 2.5 | 4.1 |
| Scientific research and development services | 5417 | 9,798 | 51.0 | 2.3 | 7.1 | 14.4 | 18.2 | 7.0 |
| Advertising, public relations, and related services | 5418 | 27,677 | 80.8 | 0.4 r | 4.0 | 6.1 | 4.4 | 4.3 |
| Other professional, scientific, and technical services | 5419 | 55,569 | 59.1 | 0.4 | 7.4 | 13.8 | 13.6 | 5.7 |
| Management of companies and enterprises | 55 | 2,409 | 75.9 | D | 5.4 r | 6.5 r | 4.4 r | 7.7 |
| Administrative and support and waste management and remediation services | 56 | 287,807 | 78.3 | 0.3 | 4.9 | 6.0 | 5.2 | 5.3 |
| Educational services | 61 | 53,912 | 83.7 | 0.2 r | 4.5 | 3.9 | 3.4 | 4.3 |
| Health care and social assistance | 62 | 519,556 | 62.2 | 0.2 | 6.6 | 11.8 | 12.9 | 6.3 |
| Health care services | 621–23 | 459,855 | 58.7 | 0.2 | 7.1 | 13.0 | 14.5 | 6.5 |
| Social assistance | 624 | 59,700 | 89.1 | 0.2 r | 2.8 | 2.5 | 0.6 | 4.8 |
| Arts, entertainment, and recreation | 71 | 88,831 | 79.1 | 0.2 r | 4.3 | 5.6 | 5.8 | 5.0 |
| Accommodation and food services | 72 | 453,059 | 80.7 | 0.2 | 4.1 | 4.6 | 2.6 | 7.8 |
| Other services | 81 | 345,125 | 67.8 | 0.3 | 6.6 | 10.1 | 8.0 | 7.2 |

D = withheld to avoid disclosing data for individual companies; data are included in higher-level totals. r = relative standard error > 50%.

NAICS = 2017 North American Industry Classification System.

Note(s):

Detail may not add to total because of rounding or unavailable NAICS detail for select records beyond the 4-digit industry classification. Industry classification is based on dominant establishment payroll. Statistics are representative of companies located in the United States.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, 2019 Annual Business Survey: Data Year 2018.