



# BRAND REPORT

FOR THE 6 MONTH PERIOD ENDED DECEMBER 2018



No attempt has been made to rank the information contained in this report in order of importance, since BPA Worldwide believes this is a judgment which must be made by the user of the report.

Rapid News Publications Limited  
 Carlton House, Sandpiper Way  
 Chester Business Park  
 Chester, CH4 9QE  
 United Kingdom  
 Tel. No.: 01244 680222  
 Fax No.: 01244 671074  
 Website: www.tctmagazine.com

**TCT MAGAZINE** is home to three publications in the form of the North American Edition, Europe Edition and German Language Edition. TCT Magazine is part of TCT Group, whose mission is to accelerate the adoption of technologies that power innovation in the design-to-manufacturing process chain. Enabling companies across the complete spectrum of industry to achieve the goal of world-class design and manufacturing functions within their organisations.

Through print, digital and social media TCT Magazine delivers business-critical insights, intelligence and inspiration across Europe and North America on 3D printing, additive manufacturing, CAD/CAM/CAE, metrology, inspection and materials as well as highlighting the latest developments in conventional manufacturing processes such as moulding, casting and CNC machining.

TCT Magazine provides recipients in aerospace, automotive, healthcare, consumer goods, industrial products, jewellery and more with access to thought leadership, super-user applications and cutting-edge research.

### BRAND REPORT PURPOSE

The Brand Report provides a deeper understanding and identification of all audited touch points with customers that have interest in the brand. It is designed to present analysis of all communication channels, including a brand's unique users within each channel of, but not across, multiple media platforms. This non-integrated report contains data for each separate media channel as indicated in the Executive Summary. No attempt has been made to identify or eliminate duplication that may exist across media channels.

## CHANNELS

**TCT MAGAZINE**

3 issues in the period  
17,110 average circulation

**TCT MAGAZINE WEBSITE**

30,938 average users

**TCT MAGAZINE SOCIAL MEDIA**

See below for Social Media figures

## EXECUTIVE SUMMARY

Below are the average contacts per occurrence, including frequency per period reported.

|   | Non-Paid | Paid | Average  |
|---|----------|------|----------|
| <b>TCT MAGAZINE</b> (3 issues in the period)                              | 17,110   | -    | 17,110   |
| <b>TCT MAGAZINE WEBSITE</b> (Monthly Users with 65,877 average Pageviews) | 30,938   | -    | 30,938   |
| <b>TCT MAGAZINE SOCIAL MEDIA</b>  |          |      |          |
| a. Twitter followers  |          |      |          |
| 1. www.twitter.com/thetctmagazine   | *9,459   | -    | *9,459   |
| 2. http://twitter.com/thetctgroup   | *8,433   | -    | *8,433   |
| 3. http://twitter.com/TCTShow   | *6,097   | -    | *6,097   |
| b. Facebook likes   |          |      |          |
|   | *1,498   | -    | *1,498   |
| c. LinkedIn group members   |          |      |          |
|   | *3,596   | -    | *3,596   |
| d. YouTube views  |          |      |          |
|   | *742,273 | -    | *742,273 |
| e. YouTube subscribersZ   |          |      |          |
|   | *1,929   | -    | *1,929   |
| f. Google Plus  |          |      |          |
|   | *436     | -    | *436     |

\*Social Media claims are cumulative figures, not averages.

**3b. QUALIFICATION SOURCE BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF VOL 26 ISSUE 6 (NOVEMBER)/VOL 4 ISSUE 6 (DECEMBER) 2018**

| Qualification Source  | Qualified Within |              |              | Qualified Circulation by Edition |                |  | Total Qualified | Percent      |
|---|------------------|--------------|--------------|----------------------------------|----------------|--|-----------------|--------------|
|   | 1 Year           | 2 Years      | 3 Years      | European                         | North American |  |                 |              |
| I. Direct Request:  | 8,133            | 5,947        | 2,972        | 12,038                           | 5,014          |  | 17,052          | 99.5         |
| II. Request from recipient's company:   | 6                | 46           | 27           | 51                               | 28             |  | 79              | 0.5          |
| III. Membership Benefit:  | -                | -            | -            | -                                | -              |  | -               | -            |
| IV. Communication from recipient or recipient's company (other than request):   | -                | -            | -            | -                                | -              |  | -               | -            |
| V. Sources other than above, including: Association rosters and directories; Business directories; Manufacturer's, distributor's and wholesaler's lists; and Other sources: | -                | -            | -            | -                                | -              |  | -               | -            |
| VI. Single Copy Sales:  | -                | -            | -            | -                                | -              |  | -               | -            |
| <b>TOTAL QUALIFIED CIRCULATION</b>  | <b>8,139</b>     | <b>5,993</b> | <b>2,999</b> | <b>12,089</b>                    | <b>5,042</b>   |  | <b>17,131</b>   | <b>100.0</b> |
| <b>PERCENT</b>  | <b>47.5</b>      | <b>35.0</b>  | <b>17.5</b>  | <b>70.6</b>                      | <b>29.4</b>    |  | <b>100.0</b>    |              |

**3c. MAILING ADDRESS BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF VOL 26 ISSUE 6 (NOVEMBER)/VOL 4 ISSUE 6 (DECEMBER) 2018**

| Mailing Address                               | Qualified Circulation by Edition |                | Total Qualified | Percent      |
|---|----------------------------------|----------------|-----------------|--------------|
|   | European                         | North American |                 |              |
| Individuals by name and title and/or function | 11,265                           | 4,810          | 16,075          | 93.8         |
| Individuals by name only                      | 824                              | 232            | 1,056           | 6.2          |
| Titles or functions only                      | -                                | -              | -               | -            |
| Company names only                            | -                                | -              | -               | -            |
| Multi-Copy Same Addressee copies              | -                                | -              | -               | -            |
| Single Copy Sales                             | -                                | -              | -               | -            |
| <b>TOTAL QUALIFIED CIRCULATION</b>            | <b>12,089</b>                    | <b>5,042</b>   | <b>17,131</b>   | <b>100.0</b> |

**AVERAGE ANNUAL AUDITED QUALIFIED CIRCULATION AND CURRENT UNAUDITED BRAND REPORTS**

| 6-Month Period Ended:                                       | Audited Data   |                 | Audited Data   |                 | Audited Data   |                 | Circulation Claim |
|---|----------------|-----------------|----------------|-----------------|----------------|-----------------|-------------------|
|   | January - June | July - December | January - June | July - December | January - June | July - December |                   |
|   | <b>2016</b>    | <b>2016</b>     | <b>2017</b>    | <b>2017</b>     | <b>2018</b>    | <b>2018*</b>    |                   |
| Total Audit Average Qualified:                              | 9,975          | 11,179          | 14,781         | 15,492          | 17,063         | 17,110          |                   |
| Qualified Non-Paid:   | 9,975          | 11,179          | 14,781         | 15,485          | 17,063         | 17,110          |                   |
| Qualified Paid:   | -              | -               | -              | 7               | -              | -               |                   |
| Post Expire Copies included in Total Qualified Circulation: | **NC           | **NC            | **NC           | **NC            | **NC           | **NC            | **NC              |
| Average Annual Order Price:                                 | **NC           | **NC            | **NC           | **NC            | **NC           | **NC            | **NC              |

\*NOTE: July - December 2018 data is unaudited. With each successive period, new data will be added until six 6-month periods are displayed.  
\*\*NC = None Claimed.

**GEOGRAPHICAL BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF VOL 26 ISSUE 6 (NOVEMBER)/VOL 4 ISSUE 6 (DECEMBER) 2018\***

| State                   | Total Qualified | Percent    | Qualified Circulation by Edition |                | State                              | Total Qualified | Percent      | Qualified Circulation by Edition |                |
|-------------------------|-----------------|------------|----------------------------------|----------------|------------------------------------|-----------------|--------------|----------------------------------|----------------|
|                         |                 |            | European                         | North American |                                    |                 |              | European                         | North American |
| Maine                   | 14              |            | -                                | 14             | Kentucky                           | 37              |              | -                                | 37             |
| New Hampshire           | 31              |            | -                                | 31             | Tennessee                          | 47              |              | -                                | 47             |
| Vermont                 | 7               |            | -                                | 7              | Alabama                            | 32              |              | -                                | 32             |
| Massachusetts           | 169             |            | -                                | 169            | Mississippi                        | 5               |              | -                                | 5              |
| Rhode Island            | 26              |            | -                                | 26             | EAST SO. CENTRAL                   | 121             | 0.7          | -                                | 121            |
| Connecticut             | 80              |            | -                                | 80             | Arkansas                           | 12              |              | -                                | 12             |
| <b>NEW ENGLAND</b>      | <b>327</b>      | <b>1.9</b> | -                                | <b>327</b>     | Louisiana                          | 10              |              | -                                | 10             |
| New York                | 143             |            | -                                | 143            | Oklahoma                           | 22              |              | -                                | 22             |
| New Jersey              | 282             |            | -                                | 282            | Texas                              | 212             |              | -                                | 212            |
| Pennsylvania            | 203             |            | -                                | 203            | WEST SO. CENTRAL                   | 256             | 1.5          | -                                | 256            |
| <b>MIDDLE ATLANTIC</b>  | <b>628</b>      | <b>3.6</b> | -                                | <b>628</b>     | Montana                            | 3               |              | -                                | 3              |
| Ohio                    | 224             |            | -                                | 224            | Idaho                              | 15              |              | -                                | 15             |
| Indiana                 | 85              |            | -                                | 85             | Wyoming                            | 2               |              | -                                | 2              |
| Illinois                | 168             |            | -                                | 168            | Colorado                           | 88              |              | -                                | 88             |
| Michigan                | 259             |            | -                                | 259            | New Mexico                         | 17              |              | -                                | 17             |
| Wisconsin               | 102             |            | -                                | 102            | Arizona                            | 102             |              | -                                | 102            |
| <b>EAST NO. CENTRAL</b> | <b>838</b>      | <b>4.9</b> | -                                | <b>838</b>     | Utah                               | 47              |              | -                                | 47             |
| Minnesota               | 147             |            | -                                | 147            | Nevada                             | 156             |              | -                                | 156            |
| Iowa                    | 23              |            | -                                | 23             | <b>MOUNTAIN</b>                    | <b>430</b>      | <b>2.5</b>   | -                                | <b>430</b>     |
| Missouri                | 46              |            | -                                | 46             | Alaska                             | 1               |              | -                                | 1              |
| North Dakota            | 3               |            | -                                | 3              | Washington                         | 108             |              | -                                | 108            |
| South Dakota            | 5               |            | -                                | 5              | Oregon                             | 68              |              | -                                | 68             |
| Nebraska                | 11              |            | -                                | 11             | California                         | 1,084           |              | -                                | 1,084          |
| Kansas                  | 16              |            | -                                | 16             | Hawaii                             | 6               |              | -                                | 6              |
| <b>WEST NO. CENTRAL</b> | <b>251</b>      | <b>1.5</b> | -                                | <b>251</b>     | <b>PACIFIC</b>                     | <b>1,267</b>    | <b>7.4</b>   | -                                | <b>1,267</b>   |
| Delaware                | 8               |            | -                                | 8              | <b>UNITED STATES</b>               | <b>4,696</b>    | <b>27.4</b>  | -                                | <b>4,696</b>   |
| Maryland                | 52              |            | -                                | 52             | U.S. Territories                   | 1               |              | -                                | 1              |
| Washington, DC          | 22              |            | -                                | 22             | Canada                             | 267             |              | -                                | 267            |
| Virginia                | 65              |            | -                                | 65             | Mexico                             | 78              |              | -                                | 78             |
| West Virginia           | 10              |            | -                                | 10             | Other International                | 12,089          |              | 12,089                           | -              |
| North Carolina          | 92              |            | -                                | 92             | APO/FPO                            | -               |              | -                                | -              |
| South Carolina          | 49              |            | -                                | 49             |                                    |                 |              |                                  |                |
| Georgia                 | 68              |            | -                                | 68             | <b>TOTAL QUALIFIED CIRCULATION</b> | <b>17,131</b>   | <b>100.0</b> | <b>12,089</b>                    | <b>5,042</b>   |
| Florida                 | 212             |            | -                                | 212            |                                    |                 |              |                                  |                |
| <b>SOUTH ATLANTIC</b>   | <b>578</b>      | <b>3.4</b> | -                                | <b>578</b>     |                                    |                 |              |                                  |                |

\*See Additional Data

**GEOGRAPHICAL BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF VOL 26 ISSUE 6 (NOVEMBER)/VOL 4 ISSUE 6 (DECEMBER) 2018\***

| Region                         | Total Qualified | Percent | Qualified Circulation by Edition |                | Region                             | Total Qualified | Percent      | Qualified Circulation by Edition |                |
|--------------------------------|-----------------|---------|----------------------------------|----------------|------------------------------------|-----------------|--------------|----------------------------------|----------------|
|                                |                 |         | European                         | North American |                                    |                 |              | European                         | North American |
| Channel Islands                | 6               |         | 6                                | -              | Cheshire                           | 263             |              | 263                              | -              |
| Cornwall                       | 20              |         | 20                               | -              | Isle of Man                        | 4               |              | 4                                | -              |
| Devon                          | 105             |         | 105                              | -              | Lancashire                         | 386             |              | 386                              | -              |
| Dorset                         | 92              |         | 92                               | -              | Merseyside                         | 108             |              | 108                              | -              |
| Gloucestershire                | 226             |         | 226                              | -              | North West                         | 761             | 4.4          | 761                              | -              |
| Isles of Scilly                | 14              |         | 14                               | -              | Cleveland                          | 38              |              | 38                               | -              |
| Somerset                       | 283             |         | 283                              | -              | Cumbria                            | 42              |              | 42                               | -              |
| Wiltshire                      | 154             |         | 154                              | -              | Durham                             | 30              |              | 30                               | -              |
| South West                     | 900             | 5.3     | 900                              | -              | Northumberland                     | 15              |              | 15                               | -              |
| Bedfordshire                   | 114             |         | 114                              | -              | Tyne & Wear                        | 58              |              | 58                               | -              |
| Berkshire                      | 194             |         | 194                              | -              | Northern                           | 183             | 1.1          | 183                              | -              |
| Buckinghamshire                | 191             |         | 191                              | -              | London                             | 585             |              | 585                              | -              |
| East Sussex                    | 98              |         | 98                               | -              | Total England Circulation          | 8,157           | 47.6         | 8,157                            | -              |
| Essex                          | 154             |         | 154                              | -              | Antrim                             | 38              |              | 38                               | -              |
| Hampshire                      | 247             |         | 247                              | -              | Armagh                             | 3               |              | 3                                | -              |
| Hertfordshire                  | 249             |         | 249                              | -              | County Down                        | 19              |              | 19                               | -              |
| Isle of Wight                  | 10              |         | 10                               | -              | County Tyrone                      | 7               |              | 7                                | -              |
| Kent                           | 175             |         | 175                              | -              | Fermanagh                          | -               |              | -                                | -              |
| Middlesex                      | 137             |         | 137                              | -              | Londonderry                        | 15              |              | 15                               | -              |
| Oxfordshire                    | 226             |         | 226                              | -              | Northern Ireland                   | 82              | 0.5          | 82                               | -              |
| Surrey                         | 226             |         | 226                              | -              | Clwyd                              | 58              |              | 58                               | -              |
| West Sussex                    | 104             |         | 104                              | -              | Dyfed                              | 22              |              | 22                               | -              |
| South East                     | 2,125           | 12.4    | 2,125                            | -              | Gwent                              | 50              |              | 50                               | -              |
| Cambridgeshire                 | 232             |         | 232                              | -              | Gwynedd                            | 32              |              | 32                               | -              |
| Norfolk                        | 58              |         | 58                               | -              | Mid Glamorgan                      | 45              |              | 45                               | -              |
| Suffolk                        | 85              |         | 85                               | -              | Powys                              | 18              |              | 18                               | -              |
| East Anglia                    | 375             | 2.2     | 375                              | -              | Glamorgan                          | 67              |              | 67                               | -              |
| Herefordshire & Worcestershire | 207             |         | 207                              | -              | West Glamorgan                     | 44              |              | 44                               | -              |
| Shropshire                     | 121             |         | 121                              | -              | Wales                              | 336             | 2.0          | 336                              | -              |
| Staffordshire                  | 246             |         | 246                              | -              | Borders                            | 2               |              | 2                                | -              |
| Warwickshire                   | 202             |         | 202                              | -              | Central                            | 17              |              | 17                               | -              |
| West Midlands                  | 824             |         | 824                              | -              | Dumfries & Galloway                | 3               |              | 3                                | -              |
| Midlands                       | 1,600           | 9.3     | 1,600                            | -              | Fife                               | 12              |              | 12                               | -              |
| Derbyshire                     | 247             |         | 247                              | -              | Grampian                           | 23              |              | 23                               | -              |
| Leicestershire                 | 317             |         | 317                              | -              | Highlands & Islands                | 4               |              | 4                                | -              |
| Lincolnshire                   | 78              |         | 78                               | -              | Lothian                            | 34              |              | 34                               | -              |
| Northamptonshire               | 197             |         | 197                              | -              | Strathclyde                        | 75              |              | 75                               | -              |
| Nottinghamshire                | 215             |         | 215                              | -              | Tayside                            | 14              |              | 14                               | -              |
| East Midlands                  | 1,054           | 6.1     | 1,054                            | -              | Scotland                           | 184             | 1.1          | 184                              | -              |
| East Yorkshire                 | 50              |         | 50                               | -              | Total UK Circulation               | 8,759           | 51.1         | 8,759                            | -              |
| North Yorkshire                | 59              |         | 59                               | -              | Europe                             | 3,330           |              | 3,330                            | -              |
| South Yorkshire                | 223             |         | 223                              | -              | International                      | 5,042           |              | -                                | 5,042          |
| West Yorkshire                 | 242             |         | 242                              | -              | <b>TOTAL QUALIFIED CIRCULATION</b> | <b>17,131</b>   | <b>100.0</b> | <b>12,089</b>                    | <b>5,042</b>   |
| Yorkshire                      | 574             | 3.4     | 574                              | -              |                                    |                 |              |                                  |                |

\*See Additional Data

**GEOGRAPHICAL BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF VOL 26 ISSUE 6 (NOVEMBER)/VOL 4 ISSUE 6 (DECEMBER) 2018\***

| Region/Country         | Total Qualified | Percent | Qualified Circulation by Edition |                | Region/Country                     | Total Qualified | Percent      | Qualified Circulation by Edition |                |
|------------------------|-----------------|---------|----------------------------------|----------------|------------------------------------|-----------------|--------------|----------------------------------|----------------|
|                        |                 |         | European                         | North American |                                    |                 |              | European                         | North American |
| <b>EUROPE</b>          |                 |         |                                  |                | Macedonia                          | 2               |              | 2                                | -              |
| Albania                | 3               |         | 3                                | -              | Malta                              | 14              |              | 14                               | -              |
| Andorra                | 1               |         | 1                                | -              | Netherlands                        | 270             |              | 270                              | -              |
| Austria                | 40              |         | 40                               | -              | Norway                             | 45              |              | 45                               | -              |
| Belarus                | 5               |         | 5                                | -              | Poland                             | 112             |              | 112                              | -              |
| Belgium                | 189             |         | 189                              | -              | Portugal                           | 102             |              | 102                              | -              |
| Bosnia and Herzegovina | 2               |         | 2                                | -              | Romania                            | 41              |              | 41                               | -              |
| Bulgaria               | 22              |         | 22                               | -              | Russian Federation                 | 122             |              | 122                              | -              |
| Croatia                | 15              |         | 15                               | -              | Serbia                             | 25              |              | 25                               | -              |
| Cyprus                 | 1               |         | 1                                | -              | Slovakia                           | 11              |              | 11                               | -              |
| Czech Republic         | 55              |         | 55                               | -              | Slovenia                           | 31              |              | 31                               | -              |
| Denmark                | 73              |         | 73                               | -              | Spain                              | 257             |              | 257                              | -              |
| Estonia                | 5               |         | 5                                | -              | Sweden                             | 98              |              | 98                               | -              |
| Finland                | 72              |         | 72                               | -              | Switzerland                        | 81              |              | 81                               | -              |
| France                 | 415             |         | 415                              | -              | Turkey                             | 152             |              | 152                              | -              |
| Germany                | 353             |         | 353                              | -              | Ukraine                            | 36              |              | 36                               | -              |
| Georgia                | 1               |         | 1                                | -              | United Kingdom                     | 8,759           |              | 8,759                            | -              |
| Greece                 | 57              |         | 57                               | -              | Subtotal                           | 12,089          | 70.6         | 12,089                           | -              |
| Hungary                | 40              |         | 40                               | -              | <b>NORTH AMERICA</b>               |                 |              |                                  |                |
| Iceland                | 6               |         | 6                                | -              | Canada                             | 267             |              | -                                | 267            |
| Ireland                | 266             |         | 266                              | -              | Mexico                             | 78              |              | -                                | 78             |
| Italy                  | 281             |         | 281                              | -              | United States                      | 4,697           |              | -                                | 4,697          |
| Latvia                 | 6               |         | 6                                | -              | Subtotal                           | 5,042           | 29.4         | -                                | 5,042          |
| Liechtenstein          | 2               |         | 2                                | -              | <b>TOTAL QUALIFIED CIRCULATION</b> | <b>17,131</b>   | <b>100.0</b> | <b>12,089</b>                    | <b>5,042</b>   |
| Lithuania              | 9               |         | 9                                | -              |                                    |                 |              |                                  |                |
| Luxembourg             | 12              |         | 12                               | -              |                                    |                 |              |                                  |                |

\*See Additional Data

## WEBSITE CHANNEL

WWW.TCTMAGAZINE.COM

| 2018            | Pageviews     | Sessions      | Users         | Average Session Duration |
|-----------------|---------------|---------------|---------------|--------------------------|
| July            | 58,209        | 39,939        | 29,403        | 1:07                     |
| August          | 62,328        | 40,117        | 29,986        | 1:19                     |
| September       | 75,720        | 44,173        | 31,777        | 1:21                     |
| October         | 70,398        | 43,918        | 32,555        | 1:14                     |
| November        | 80,565        | 50,024        | 36,516        | 1:19                     |
| December        | 48,040        | 32,527        | 25,392        | 1:04                     |
| <b>AVERAGE:</b> | <b>65,877</b> | <b>41,783</b> | <b>30,938</b> | <b>1:14</b>              |

July – December 2018 data was provided by Google Analytics. All website activity is audited by BPA Worldwide.

### WEBSITE GLOSSARY

**Pageviews:** A Pageview is recorded each time a page implanted with the JavaScript code (tag) is displayed in a browser window. This will occur whether the page is served directly from the web server, from a proxy, or from the browser's cache.

**Sessions:** A single continuous set of activity attributable to a cookie browser resulting in one or more pulled text and/or graphics downloads from a site. A period of 30 minutes of inactivity will terminate the session.

**Users:** An identified and unduplicated Cookie Browser that accesses Internet content or advertising during a measurement period.

**Average Session Duration:** The time visitors remain on a site per session.

## SOCIAL MEDIA CHANNEL

### TCT Magazine Social Media

| 2018               | Twitter followers<br><a href="http://www.twitter.com/thetctmagazine">http://www.twitter.com/thetctmagazine</a> | Twitter followers<br><a href="http://twitter.com/thetctgroup">http://twitter.com/thetctgroup</a> | Twitter followers<br><a href="http://twitter.com/TCTShow">http://twitter.com/TCTShow</a> | Facebook likes<br><a href="http://www.facebook.com/thetctmagazine/">http://www.facebook.com/thetctmagazine/</a> | LinkedIn group members<br><a href="http://linkedin.com/groups/48133/profile">http://linkedin.com/groups/48133/profile</a> | YouTube views<br><a href="http://www.youtube.com/Views">http://www.youtube.com/Views</a> | YouTube subscribers<br><a href="http://youtube.com/users/tctmagazine">http://youtube.com/users/tctmagazine</a> | Google Plus<br><a href="HTTPS://PLUS.GOOGLE.COM/+PRSNLZME">HTTPS://PLUS.GOOGLE.COM/+PRSNLZME</a> |
|--------------------|--|--|--|---|---|--|--|--|
| Beginning Balance: | 9,212  | 8,444  | 5,799  | 1,392   | 3,507   | 667,414  | 1,781  | 432  |
| July               | 9,157  | 8,329  | 5,836  | 1,431   | 3,536   | 674,079  | 1,806  | 434  |
| August             | 9,205  | 8,344  | 5,811  | 1,422   | 3,552   | 706,998  | 1,850  | 434  |
| September          | 9,286  | 8,396  | 6,020  | 1,448   | 3,551   | 722,815  | 1,881  | 439  |
| October            | 9,377  | 8,475  | 6,071  | 1,468   | 3,586   | 730,144  | 1,907  | 436  |
| November           | 9,424  | 8,442  | 6,092  | 1,486   | 3,593   | 736,967  | 1,914  | 434  |
| December           | 9,459  | 8,433  | 6,097  | 1,498   | 3,596   | 742,273  | 1,929  | 436  |

## ADDITIONAL DATA

### CHANGE IN FREQUENCY:

Effective with the January 2018 issue, TCT North America changed its frequency from 4 to 6 issues per year.

### AVERAGE NON-QUALIFIED CIRCULATION:

Allocated for Trade Shows and Conventions:

#### TCT

| Issue      | Copies | Date            | Show     | Location           |
|------------|--------|-----------------|----------|--------------------|
| Issue 26.5 | 750    | 25-27 September | TCT Show | Birmingham UK      |
| Issue 26.6 | 300    | 13-16 November  | Formnext | Frankfurt, Germany |

#### TCT North America

| Issue     | Copies | Date        | Show | Location     |
|-----------|--------|-------------|------|--------------|
| Issue 4.4 | 150    | 1 September | AMT  | Chicago, USA |

### GEOGRAPHIC DISTRIBUTION:

Geographic data for Website and Social Media are not reported at the media owner's option.

### PUBLISHER'S AFFIDAVIT

We hereby make oath and say that all data set forth in this statement are true.

Jane Palfi, Audience Development Manager

Jenifer Armstrong, Audit Consultant

(At least one of the above signatures must be that of an officer of the publishing company or its authorized representative.)

#### IMPORTANT NOTE:

This unaudited brand report has been checked against the previous audit report. It will be included in the annual audit made by BPA Worldwide.

|                           |                   |
|---------------------------|-------------------|
| Date signed               | February 11, 2019 |
| Country                   | United Kingdom    |
| City                      | Chester           |
| Received by BPA Worldwide | February 11, 2019 |
| Type                      | BJ                |
| ID Number                 | T326B0D8          |

#### About BPA Worldwide:

A not-for-profit organization since 1931, BPA Worldwide is governed by a tripartite board comprised of media owners, advertising agencies and advertisers. Headquartered in Shelton, Connecticut, USA, BPA has the largest membership of any media-auditing organization in the world, spanning more than 30 countries. Globally, BPA audits media properties including consumer magazines, newspapers, web sites, events, email newsletters, databases, wireless, social media and other advertiser-supported media—as well as advertiser and agency members. Visit [www.bpaww.com](http://www.bpaww.com) for the latest audit reports, membership information and publishing and advertising industry news.

**FIELD SERVED**

**TCT MAGAZINE** European and North American editions serve companies in the following fields: Automotive, Marine and Rail, Aerospace, Computer/IT/Telecommunications, Consumer Products, Military and Defence, Education, Electronics, Industrial Products, Jewellery, Art and High Value Creative Goods, Medical, Dental and Pharmaceutical, Packaging, Software Manufacturer, Machinery and Equipment Manufacturer or Distributor, Materials Manufacturer, Compounder or Distributor, Contract Manufacturing, Architecture & Planning, Law and Intellectual Property, Banking, Finance, Consultancy and Business Services and Other businesses allied to the field as reported in Paragraph 3a herein.

**DEFINITION OF RECIPIENT QUALIFICATION**

Qualified recipients are involved in 3D Printing, Additive Manufacturing, CAD/CAM/CAE Operations, Corporate Management, Manufacturing, Marketing, Product Design & Development, Product Management, Sales and Business Development, Project Management, Purchasing, Research & Development, Tooling, Quality/Industry Assurance, Engineering and Other functions in the above fields.

**AVERAGE NON-QUALIFIED CIRCULATION**

| Non-Qualified Not Included Elsewhere       | Copies       |
|--|--------------|
| Other Paid Circulation                     | -            |
| Advertiser and Agency                      | 3,063        |
| *Allocated for Trade Shows and Conventions | 400          |
| All Other                                  | 773          |
| <b>TOTAL</b>                               | <b>4,236</b> |

\*See Additional Data

**1. AVERAGE QUALIFIED CIRCULATION BREAKOUT FOR THE PERIOD**

| Qualified Circulation              | Total Qualified |              | Qualified Non-Paid |              | Qualified Paid |          |
|------------------------------------|-----------------|--------------|--------------------|--------------|----------------|----------|
|                                    | Copies          | Percent      | Copies             | Percent      | Copies         | Percent  |
| Individual                         | 17,110          | 100.0        | 17,110             | 100.0        | -              | -        |
| Sponsored Individually Addressed   | -               | -            | -                  | -            | -              | -        |
| Membership Benefit                 | -               | -            | -                  | -            | -              | -        |
| Multi-Copy Same Addressee          | -               | -            | -                  | -            | -              | -        |
| Single Copy Sales                  | -               | -            | -                  | -            | -              | -        |
| <b>TOTAL QUALIFIED CIRCULATION</b> | <b>17,110</b>   | <b>100.0</b> | <b>17,110</b>      | <b>100.0</b> | <b>-</b>       | <b>-</b> |

**2. QUALIFIED CIRCULATION BY ISSUES FOR PERIOD**

| 2018 Issue  | Total Qualified | Qualified Circulation by Edition |                        |
|---|-----------------|----------------------------------|------------------------|
|   |                 | European Edition                 | North American Edition |
| VOL 26 ISSUE 4 (July)/VOL 4 ISSUE 4 (August)        | 17,100          | 12,050                           | 5,050                  |
| VOL 26 ISSUE 5 (September)/VOL 4 ISSUE 5 (November) | 17,100          | 12,050                           | 5,050                  |
| VOL 26 ISSUE 6 (November)/VOL 4 ISSUE 6 (December)  | 17,131          | 12,089                           | 5,042                  |

**3a. BUSINESS/OCCUPATION BREAKOUT OF QUALIFIED CIRCULATION FOR ISSUE OF VOL 26 ISSUE 6 (NOVEMBER)/VOL 4 ISSUE 6 (DECEMBER) 2018**

This issue is 0.2% or 31 copies above the average of the other 2 issues reported in Paragraph 2.

| Business & Industry   | Total Qualified | Percent of Total | Qualified Circulation by Edition |                |              |                        |                        |                      |               |            |                              |  |                    |            |                        |            |                            |              |              |
|---|-----------------|------------------|----------------------------------|----------------|--------------|------------------------|------------------------|----------------------|---------------|------------|------------------------------|--|--------------------|------------|------------------------|------------|----------------------------|--------------|--------------|
|   |                 |                  | European                         | North American | 3D Printing  | Additive Manufacturing | CAD/CAM/CAE Operations | Corporate Management | Manufacturing | Marketing  | Product Design & Development | Product Management, Sales and Business Development | Project Management | Purchasing | Research & Development | Tooling    | Quality/Industry Assurance | Engineering  | Other        |
| Industrial Products   | 958             | 5.6              | 773                              | 185            | 82           | 72                     | 36                     | 71                   | 81            | 35         | 225                          | 60   | 33                 | 8          | 89                     | 15         | 10                         | 106          | 35           |
| Automotive, Marine and Rail   | 1,274           | 7.4              | 1,004                            | 270            | 105          | 86                     | 78                     | 69                   | 120           | 31         | 226                          | 50   | 36                 | 36         | 110                    | 26         | 23                         | 209          | 69           |
| Consumer Products   | 1,527           | 8.9              | 873                              | 654            | 163          | 46                     | 35                     | 241                  | 82            | 33         | 413                          | 69   | 30                 | 70         | 96                     | 9          | 11                         | 108          | 121          |
| Medical, Dental and Pharmaceutical  | 1,339           | 7.8              | 763                              | 576            | 113          | 60                     | 42                     | 149                  | 94            | 22         | 247                          | 73   | 38                 | 32         | 166                    | 7          | 21                         | 153          | 122          |
| Education   | 1,156           | 6.8              | 897                              | 259            | 148          | 110                    | 47                     | 40                   | 32            | 10         | 106                          | 13   | 18                 | 9          | 177                    | 3          | 1                          | 99           | 343          |
| Aerospace   | 1,049           | 6.1              | 688                              | 361            | 71           | 158                    | 39                     | 51                   | 106           | 20         | 125                          | 53   | 23                 | 14         | 121                    | 15         | 21                         | 172          | 60           |
| Electronics   | 505             | 2.9              | 341                              | 164            | 36           | 10                     | 6                      | 44                   | 33            | 12         | 118                          | 32   | 14                 | 11         | 62                     | 8          | 4                          | 88           | 27           |
| Packaging   | 189             | 1.1              | 173                              | 16             | 14           | -                      | 2                      | 15                   | 19            | 12         | 59                           | 9  | 9                  | 12         | 3                      | 1          | 12                         | 14           |              |
| Computer/IT/Telecommunications  | 542             | 3.2              | 304                              | 238            | 77           | 4                      | 10                     | 121                  | 8             | 16         | 50                           | 48   | 13                 | 3          | 30                     | -          | 1                          | 63           | 98           |
| Contract Manufacturing  | 473             | 2.8              | 339                              | 134            | 50           | 39                     | 24                     | 62                   | 87            | 14         | 50                           | 34   | 18                 | 10         | 18                     | 9          | 4                          | 38           | 16           |
| Military & Defence  | 272             | 1.6              | 193                              | 79             | 10           | 23                     | 16                     | 12                   | 24            | 2          | 58                           | 5  | 7                  | 5          | 43                     | 1          | 6                          | 53           | 7            |
| Jewellery, Art and High Value Creative Goods  | 314             | 1.8              | 270                              | 44             | 70           | 7                      | 28                     | 11                   | 52            | 5          | 76                           | 7  | 6                  | 4          | 14                     | 1          | 3                          | 6            | 24           |
| Machinery and Equipment Manufacturer or Distributor   | 1,340           | 7.8              | 1,038                            | 302            | 140          | 144                    | 36                     | 143                  | 91            | 76         | 179                          | 180  | 27                 | 17         | 86                     | 8          | 13                         | 145          | 55           |
| Software Manufacturer   | 319             | 1.9              | 192                              | 127            | 15           | 16                     | 13                     | 64                   | 9             | 32         | 30                           | 57   | 3                  | 2          | 24                     | 2          | 3                          | 14           | 35           |
| Materials Manufacturer, Compounder or Distributor   | 613             | 3.6              | 474                              | 139            | 55           | 48                     | 5                      | 61                   | 66            | 53         | 63                           | 91   | 14                 | 4          | 89                     | 10         | 8                          | 29           | 17           |
| Architecture & Planning, Law and Intellectual Property, Banking, Finance, Consultancy and Business Services | 1,046           | 6.1              | 631                              | 415            | 64           | 35                     | 35                     | 173                  | 14            | 42         | 100                          | 53   | 18                 | 8          | 44                     | 6          | 5                          | 96           | 353          |
| Other   | 4,215           | 24.6             | 3,136                            | 1,079          | 313          | 201                    | 83                     | 418                  | 154           | 166        | 377                          | 199  | 98                 | 47         | 446                    | 18         | 22                         | 301          | 1,372        |
| <b>TOTAL QUALIFIED CIRCULATION</b>  | <b>17,131</b>   | <b>100.0</b>     | <b>12,089</b>                    | <b>5,042</b>   | <b>1,526</b> | <b>1,059</b>           | <b>535</b>             | <b>1,745</b>         | <b>1,072</b>  | <b>581</b> | <b>2,502</b>                 | <b>1,033</b>                                       | <b>405</b>         | <b>288</b> | <b>1,627</b>           | <b>141</b> | <b>157</b>                 | <b>1,692</b> | <b>2,768</b> |
| <b>PERCENT</b>  | <b>100.0</b>    |                  | <b>70.6</b>                      | <b>29.4</b>    | <b>8.9</b>   | <b>6.2</b>             | <b>3.1</b>             | <b>10.2</b>          | <b>6.3</b>    | <b>3.4</b> | <b>14.6</b>                  | <b>6.0</b>   | <b>2.4</b>         | <b>1.7</b> | <b>9.5</b>             | <b>0.8</b> | <b>0.9</b>                 | <b>9.9</b>   | <b>16.2</b>  |