

**BTADRILL**

WENDEPLATTENBOHRER  
BTA - SYSTEM



Ingersoll Werkzeuge GmbH ist der Spezialist für extrem weich schneidende Fräswerkzeuge in Standard- und Sonderausführung.

Zusammen mit den sehr erfolgreichen Lösungen für die Schwerzerspanung und der projektorientierten Entwicklung von speziellen Werkzeuglösungen bieten wir ein umfassendes Technologie-Potenzial, das von den unterschiedlichsten Branchen genutzt wird. Dabei ist die enge Kooperation mit unseren Kunden bei der Entwicklung von technisch anspruchsvollen Problemlösungen die Basis langjähriger und dauerhafter Partnerschaften – weltweit. Sowohl kleine und mittelständische Unternehmen als auch international agierende Konzerne vertrauen unserer fachlichen Qualifikation und profitieren von der Zuverlässigkeit und Prozesssicherheit unserer Werkzeuge.



### **TBTA3**

|                 |       |              |
|-----------------|-------|--------------|
| TBTA3_SE4 ..... | Seite | <b>04</b>    |
| TBTA3_SI1 ..... | Seite | <b>04</b>    |
| TBTA3_DE4 ..... | Seite | <b>05</b>    |
| Aufbau .....    | Seite | <b>06-08</b> |

### **TBTA5**

|                 |       |           |
|-----------------|-------|-----------|
| TBTA5_SE4 ..... | Seite | <b>09</b> |
| TBTA5_SI1 ..... | Seite | <b>09</b> |
| TBTA5_DE4 ..... | Seite | <b>10</b> |
| Aufbau .....    | Seite | <b>11</b> |

### **TBTA7**

|                 |       |              |
|-----------------|-------|--------------|
| TBTA7_SE4 ..... | Seite | <b>12</b>    |
| TBTA7_SI1 ..... | Seite | <b>12</b>    |
| TBTA7_DE4 ..... | Seite | <b>13</b>    |
| Aufbau .....    | Seite | <b>14-15</b> |

### **TBTA9**

|                 |       |              |
|-----------------|-------|--------------|
| TBTA9_SE4 ..... | Seite | <b>16</b>    |
| TBTA9_SI1 ..... | Seite | <b>16</b>    |
| Aufbau .....    | Seite | <b>17-18</b> |

### **TBTA-H**

|                  |       |              |
|------------------|-------|--------------|
| TBTA-H_SE4 ..... | Seite | <b>19</b>    |
| TBTA-H_SI1 ..... | Seite | <b>20</b>    |
| TBTA-H_DE4 ..... | Seite | <b>21</b>    |
| Aufbau .....     | Seite | <b>22-23</b> |

### **TBTA-R**

|                  |       |              |
|------------------|-------|--------------|
| TBTA-R_SE4 ..... | Seite | <b>24-25</b> |
| TBTA-R_SI1 ..... | Seite | <b>26-27</b> |
| TBTA-R_DE4 ..... | Seite | <b>28</b>    |
| Aufbau .....     | Seite | <b>29-31</b> |

### **TBTA-DT**

|                   |       |           |
|-------------------|-------|-----------|
| TBTA-DT_SE4 ..... | Seite | <b>32</b> |
| TBTA-DT_SI1 ..... | Seite | <b>33</b> |
| TBTA-DT_DE4 ..... | Seite | <b>34</b> |
| Aufbau .....      | Seite | <b>35</b> |

### **BTA**

|                   |       |              |
|-------------------|-------|--------------|
| BTA_SE2/SE4 ..... | Seite | <b>36-37</b> |
| BTA_DE4 .....     | Seite | <b>38</b>    |
| BTS_SE1 .....     | Seite | <b>39</b>    |
| BTS_SE2/SE4 ..... | Seite | <b>39</b>    |

### **TBTA-T**

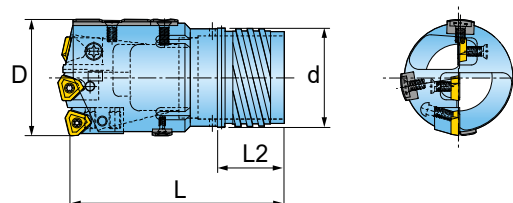
|                  |       |           |
|------------------|-------|-----------|
| TBTA-T_SE4 ..... | Seite | <b>40</b> |
| TBTA-T_SI1 ..... | Seite | <b>41</b> |
| Aufbau .....     | Seite | <b>42</b> |

### **BTA**

|                 |       |              |
|-----------------|-------|--------------|
| BTSI .....      | Seite | <b>43-44</b> |
| BTSE .....      | Seite | <b>45-46</b> |
| BTSO .....      | Seite | <b>47</b>    |
| BTDO/BTDI ..... | Seite | <b>48-49</b> |

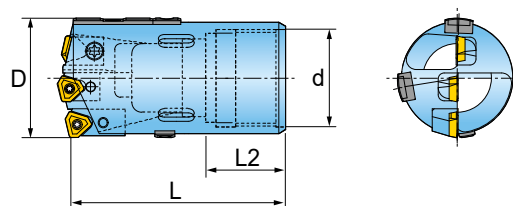
|                                      |       |           |
|--------------------------------------|-------|-----------|
| Montage des Doppelrohr-Systems ..... | Seite | <b>50</b> |
| DTC-S .....                          | Seite | <b>51</b> |
| DTC-R .....                          | Seite | <b>51</b> |

**EINROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**



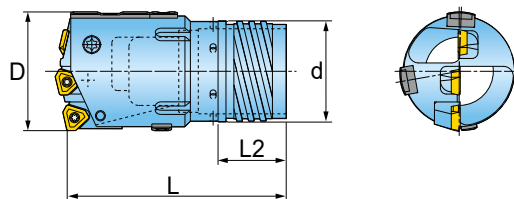
| Artikel-Nr.         | D<br>(Bereich)  | Maße |      |    | Bohrrohr    |             |
|---------------------|-----------------|------|------|----|-------------|-------------|
|                     |                 | L    | L2   | d  | Bezeichnung | Durchmesser |
| TBTA3-xxx.xxSE4-33  | 38,00 - 39,60   | 85   | 30,5 | 30 | BTSI 033    | 33          |
| TBTA3-xxx.xxSE4-36  | 39,61 - 43,00   | 85   | 30,5 | 33 | BTSI 036    | 36          |
| TBTA3-xxx.xxSE4-39  | 43,01 - 47,00   | 95   | 30,5 | 36 | BTSI 039    | 39          |
| TBTA3-xxx.xxSE4-43  | 47,01 - 51,70   | 95   | 30,5 | 39 | BTSI 043    | 43          |
| TBTA3-xxx.xxSE4-47  | 51,71 - 56,20   | 100  | 34,5 | 43 | BTSI 047    | 47          |
| TBTA3-xxx.xxSE4-51  | 56,21 - 60,60   | 110  | 34,5 | 47 | BTSI 051    | 51          |
| TBTA3-xxx.xxSE4-56A | 60,61 - 65,00   | 110  | 34,5 | 51 | BTSI 056A   | 56          |
| TBTA3-xxx.xxSE4-56B | 65,00 - 66,99   | 150  | 62   | 52 | BTSI 056B   | 56          |
| TBTA3-xxx.xxSE4-62  | 67,00 - 72,99   | 150  | 62   | 58 | BTSI 062    | 62          |
| TBTA3-xxx.xxSE4-68  | 73,00 - 79,99   | 150  | 62   | 63 | BTSI 068    | 68          |
| TBTA3-xxx.xxSE4-75  | 80,00 - 86,99   | 180  | 82   | 70 | BTSI 075    | 75          |
| TBTA3-xxx.xxSE4-82  | 87,00 - 99,99   | 180  | 82   | 77 | BTSI 082    | 82          |
| TBTA3-xxx.xxSE4-94  | 100,00 - 106,99 | 180  | 82   | 89 | BTSI 094    | 94          |

**EINROHR-SYSTEM  
EINGÄNGIGES INNENGEWINDE**



| Artikel-Nr.        | D<br>(Bereich) | Maße |    |    | Bohrrohr    |             |
|--------------------|----------------|------|----|----|-------------|-------------|
|                    |                | L    | L2 | d  | Bezeichnung | Durchmesser |
| TBTA3-xxx.xxS11-33 | 38,00 - 39,99  | 80   | 40 | 30 | BTSE 033    | 33          |
| TBTA3-xxx.xxS11-36 | 40,00 - 43,99  | 80   | 40 | 33 | BTSE 036    | 36          |
| TBTA3-xxx.xxS11-39 | 44,00 - 46,99  | 90   | 40 | 37 | BTSE 039    | 39          |
| TBTA3-xxx.xxS11-43 | 47,00 - 51,99  | 90   | 40 | 41 | BTSE 043    | 43          |
| TBTA3-xxx.xxS11-47 | 52,00 - 56,99  | 100  | 40 | 44 | BTSE 047    | 47          |
| TBTA3-xxx.xxS11-51 | 57,00 - 60,99  | 110  | 40 | 49 | BTSE 051    | 51          |
| TBTA3-xxx.xxS11-56 | 61,00 - 67,99  | 110  | 40 | 53 | BTSE 056    | 56          |
| TBTA3-xxx.xxS11-62 | 68,00 - 74,99  | 120  | 40 | 59 | BTSE 062    | 62          |
| TBTA3-xxx.xxS11-68 | 75,00 - 80,99  | 150  | 70 | 65 | BTSE 068    | 68          |
| TBTA3-xxx.xxS11-75 | 81,00 - 90,99  | 150  | 70 | 71 | BTSE 075    | 75          |
| TBTA3-xxx.xxS11-82 | 91,00 - 98,99  | 150  | 70 | 79 | BTSE 082    | 82          |
| TBTA3-xxx.xxS11-94 | 99,00 - 106,99 | 150  | 70 | 90 | BTSE 094    | 94          |

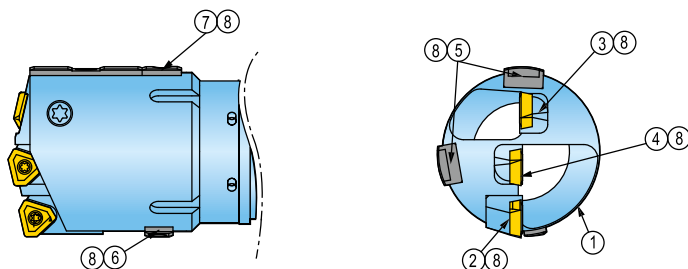
**DOPPELROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**



| Artikel-Nr.          | D<br>(Bereich)  | Maße |      |    | Bohrrohr   |           |             |
|----------------------|-----------------|------|------|----|------------|-----------|-------------|
|                      |                 | L    | L2   | d  | Außenrohr  | Innenrohr | Durchmesser |
| TBTA3-xxx.xxDE4-35.5 | 38,00 - 39,60   | 85   | 30,5 | 33 | BTDO 035.5 | BTDI 026  | 35,5        |
| TBTA3-xxx.xxDE4-39   | 39,61 - 43,00   | 85   | 30,5 | 36 | BTDO 039   | BTDI 029  | 39,0        |
| TBTA3-xxx.xxDE4-42.5 | 43,01 - 47,00   | 95   | 30,5 | 39 | BTDO 042.5 | BTDI 032  | 42,5        |
| TBTA3-xxx.xxDE4-46.5 | 47,01 - 51,70   | 95   | 34,5 | 43 | BTDO 046.5 | BTDI 035  | 46,5        |
| TBTA3-xxx.xxDE4-51   | 51,71 - 56,20   | 100  | 34,5 | 47 | BTDO 051   | BTDI 039  | 51,0        |
| TBTA3-xxx.xxDE4-55.5 | 56,21 - 65,00   | 110  | 34,5 | 51 | BTDO 055.5 | BTDI 043A | 55,5        |
| TBTA3-xxx.xxDE4-56   | 65,00 - 66,99   | 150  | 62   | 52 | BTDO 056   | BTDI 043B | 56,0        |
| TBTA3-xxx.xxDE4-62   | 67,00 - 72,99   | 150  | 62   | 58 | BTDO 062   | BTDI 048  | 62,0        |
| TBTA3-xxx.xxDE4-68   | 73,00 - 79,99   | 150  | 62   | 63 | BTDO 068   | BTDI 053  | 68,0        |
| TBTA3-xxx.xxDE4-75   | 80,00 - 86,99   | 180  | 82   | 70 | BTDO 075   | BTDI 059  | 75,0        |
| TBTA3-xxx.xxDE4-82   | 87,00 - 99,99   | 180  | 82   | 77 | BTDO 082   | BTDI 066  | 82,0        |
| TBTA3-xxx.xxDE4-94   | 100,00 - 106,99 | 180  | 82   | 89 | BTDO 094   | BTDI 078  | 94,0        |

## AUFBAU DER TBTA3 SERIE

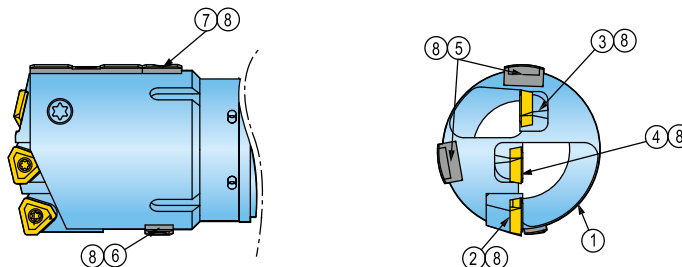
1. Bohrkopf
2. Außenkassette
3. Innenkassette
4. Zentrumskassette
5. Führungsleiste
6. Nebenleiste
7. Schutzleiste
8. Spannschraube



| Bezeichnung        |                  | Durchmesser (mm)   |                    |                    |                    |                    |
|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                    |                  | 38,00-39,99        | 40,00-44,99        | 45,00-47,99        | 48,00-51,99        | 52,00-54,99        |
| Kassette           | Außenkassette    | PERC 05R           | PERC 402-04        | PERC 402-04        | PERC 402-04        | PERC 402-32        |
|                    | Verstellschraube | AS0003-5           | AS0004-8           | AS0004-8           | AS0004-8           | AS0005-10          |
|                    | Schraubendreher  | H1.5               | H2                 | H2                 | H2                 | H2.5               |
|                    | Spannschraube    | LS1803RH           | LS1803.5RH         | LS1803.5RH         | LS1803.5RH         | LS1805RH           |
|                    | Schraubendreher  | H2                 | H2.5               | H2.5               | H2.5               | H3                 |
|                    | Innenkassette    | CENC 05R           | CENC 05R           | CENC 05R           | CENC 402-04        | CENC 402-04        |
|                    | Spannschraube    | CSTB3              | CSTB3              | CSTB3              | CSTB3.5            | CSTB3.5            |
|                    | Schraubendreher  | T9                 | T9                 | T9                 | T15                | T15                |
|                    | Zentrumskassette | CENC 05R           | CENC 05R           | CENC 402-04        | CENC 402-04        | CENC 402-04        |
|                    | Spannschraube    | CSTB3              | CSTB3              | CSTB3.5            | CSTB3.5            | CSTB3.5            |
|                    | Schraubendreher  | T9                 | T9                 | T15                | T15                | T15                |
|                    |                  |                    |                    |                    |                    |                    |
| Wendeschneidplatte | Außenkassette    | NPMX080308R-G      | TPMX140308R-G      | TPMX140308R-G      | TPMX140308R-G      | TPMX170408R-G      |
|                    | Spannschraube    | CSTB2.2            | CSTB2.5            | CSTB2.5            | CSTB2.5            | CSTB3.5D           |
|                    | Schraubendreher  | T7                 | T8                 | T8                 | T8                 | T9                 |
|                    | Innenkassette    | NPMX080308R-G      | NPMX080308R-G      | NPMX080308R-G      | TPMX140308R-G      | TPMX140308R-G      |
|                    | Spannschraube    | CSTB2.2            | CSTB2.2            | CSTB2.2            | CSTB2.5            | CSTB2.5            |
|                    | Schraubendreher  | T7                 | T7                 | T7                 | T8                 | T8                 |
|                    | Zentrumskassette | NPMX080308R-G      | NPMX080308R-G      | TPMX140308R-G      | TPMX140308R-G      | TPMX140308R-G      |
|                    | Spannschraube    | CSTB2.2            | CSTB2.2            | CSTB2.5            | CSTB2.5            | CSTB2.5            |
|                    | Schraubendreher  | T7                 | T7                 | T8                 | T8                 | T8                 |
| Führungsleisten    | Führungsleiste   | PAD-GP08-025-155DC | PAD-GP08-025-155DC | PAD-GP10-035-200DC | PAD-GP10-035-200DC | PAD-GP10-035-200DC |
|                    | Spannschraube    | CSTB3S             | CSTB3S             | CSTB4S             | CSTB4S             | CSTB4S             |
|                    | Schraubendreher  | T9                 | T9                 | T15                | T15                | T15                |
|                    | Schutzleiste     | PAD-P08            | PAD-P08            | PAD-P10            | PAD-P10            | PAD-P10            |
|                    | Spannschraube    | CSTB3S             | CSTB3S             | CSTB4S             | CSTB4S             | CSTB4S             |
|                    | Schraubendreher  | T9                 | T9                 | T15                | T15                | T15                |
|                    | Nebenleiste      | PAD-S08            | PAD-S08            | PAD-S08            | PAD-S08            | PAD-S08            |
|                    | Spannschraube    | CSTB3S             | CSTB3S             | CSTB3S             | CSTB3S             | CSTB3S             |
|                    | Schraubendreher  | T9                 | T9                 | T9                 | T9                 | T9                 |

## AUFBAU DER TBTA3 SERIE

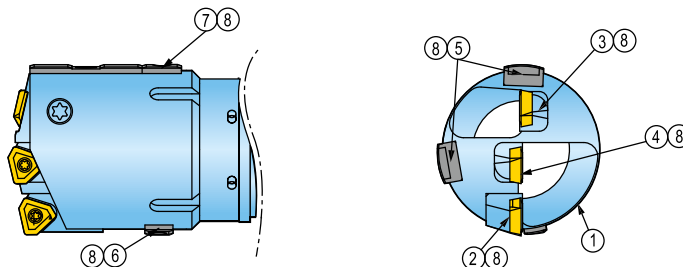
1. Bohrkopf
2. Außenkassette
3. Innenkassette
4. Zentrumskassette
5. Führungsleiste
6. Nebenleiste
7. Schutzleiste
8. Spannschraube



| Bezeichnung        |                  | Durchmesser (mm)   |                    |                    |                    |                    |
|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                    |                  | 55,00-57,99        | 58,00-59,99        | 60,00-63,99        | 64,00-67,99        | 68,00-77,99        |
| Kassette           | Außenkassette    | PERC 402-32        | PERC 402-32        | PERC 402-32        | PERC 402-43        | PERC 402-32        |
|                    | Verstellschraube | AS0005-10          | AS0005-10          | AS0005-10          | AS0005-15          | AS0005-10          |
|                    | Schraubendreher  | H2.5               | H2.5               | H2.5               | H2.5               | H2.5               |
|                    | Spannschraube    | LS1805RH           | LS1805RH           | LS1805RH           | LS1806RH           | LS1805RH           |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H4                 | H3                 |
|                    | Innenkassette    | CENC 402-04        | CENC 402-32        | CENC 402-32        | CENC 402-32        | CENC 402-43        |
|                    | Spannschraube    | CSTB3.5            | CSTA5              | CSTA5              | CSTA5              | LS1206             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                | H3                 |
|                    | Zentrumskassette | CENC 402-32        | CENC 402-32        | CENC 402-32        | CENC 402-32        | CENC 402-43        |
|                    | Spannschraube    | CSTA5              | CSTA5              | CSTA5              | CSTA5              | LS1206             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                | H3                 |
| Wendeschneidplatte | Außenkassette    | TPMX170408R-G      | TPMX170408R-G      | TPMX170408R-G      | TPMX240512R-G      | TPMX170408R-G      |
|                    | Spannschraube    | CSTB3.5D           | CSTB3.5D           | CSTB3.5D           | CSTB4M             | CSTB3.5D           |
|                    | Schraubendreher  | T9                 | T9                 | T9                 | T15                | T9                 |
|                    | Innenkassette    | TPMX140308R-G      | TPMX170408R-G      | TPMX170408R-G      | TPMX170408R-G      | TPMX240512R-G      |
|                    | Spannschraube    | CSTB2.5            | CSTB3.5D           | CSTB3.5D           | CSTB3.5D           | CSTB4M             |
|                    | Schraubendreher  | T8                 | T9                 | T9                 | T9                 | T15                |
|                    | Zentrumskassette | TPMX170408R-G      | TPMX170408R-G      | TPMX170408R-G      | TPMX170408R-G      | TPMX240512R-G      |
|                    | Spannschraube    | CSTB3.5D           | CSTB3.5D           | CSTB3.5D           | CSTB3.5D           | CSTB4M             |
|                    | Schraubendreher  | T9                 | T9                 | T9                 | T9                 | T15                |
| Führungsleisten    | Führungsleiste   | PAD-GP10-035-200DC | PAD-GP10-035-200DC | PAD-GP14-040-250DC | PAD-GP14-040-250DC | PAD-GP14-040-250DC |
|                    | Spannschraube    | CSTB4S             | CSTB4S             | CSTA5S             | CSTA5S             | CSTA5S             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                | T15                |
|                    | Schutzleiste     | PAD-P10            | PAD-P10            | PAD-P14            | PAD-P14            | PAD-P14            |
|                    | Spannschraube    | CSTB4S             | CSTB4S             | CSTA5S             | CSTA5S             | CSTA5S             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                | T15                |
|                    | Nebenleiste      | PAD-S08            | PAD-S08            | PAD-S08            | PAD-S10            | PAD-S10            |
|                    | Spannschraube    | CSTB3S             | CSTB3S             | CSTB3S             | CSTB3S             | CSTB3S             |
|                    | Schraubendreher  | T9                 | T9                 | T9                 | T9                 | T9                 |

## AUFBAU DER TBTA3 SERIE

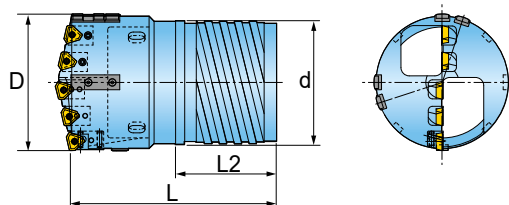
1. Bohrkopf
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4. Zentrumskassette
5. Führungsleiste
6. Nebenleiste
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8. Spannschraube



| Bezeichnung        |                  | Durchmesser (mm)   |                    |                    |                    |
|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|
|                    |                  | 78,00-84,99        | 85,00-91,99        | 92,00-98,99        | 99,00-106,99       |
| Kassette           | Außenkassette    | PERC 402-43        | PERC 402-63        | PERC 402-43        | PERC 402-63        |
|                    | Verstellschraube | AS0005-15          | AS0006-15          | AS0005-15          | AS0006-15          |
|                    | Schraubendreher  | H2.5               | H3                 | H2.5               | H3                 |
|                    | Spannschraube    | LS1806RH           | LS1806RH           | LS1806RH           | LS1806RH           |
|                    | Schraubendreher  | H4                 | H4                 | H4                 | H4                 |
|                    | Innenkassette    | CENC 402-43        | CENC 402-43        | CENC 402-63        | CENC 402-63        |
|                    | Spannschraube    | LS1206             | LS1206             | LS1206             | LS1206             |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    | Zentrumskassette | CENC 402-43        | CENC 402-43        | CENC 402-63        | CENC 402-63        |
|                    | Spannschraube    | LS1206             | LS1206             | LS1206             | LS1206             |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    |                  |                    |                    |                    |                    |
| Wendeschneidplatte | Außenkassette    | TPMX240512R-G      | TPMX280716R-G      | TPMX240512R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB4M             | CSTB5              | CSTB4M             | CSTB5              |
|                    | Schraubendreher  | T15                | T20                | T15                | T20                |
|                    | Innenkassette    | TPMX240512R-G      | TPMX240512R-G      | TPMX280716R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB4M             | CSTB4M             | CSTB5              | CSTB5              |
|                    | Schraubendreher  | T15                | T15                | T20                | T20                |
|                    | Zentrumskassette | TPMX240512R-G      | TPMX240512R-G      | TPMX280716R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB4M             | CSTB4M             | CSTB5              | CSTB5              |
|                    | Schraubendreher  | T15                | T15                | T20                | T20                |
| Führungsleisten    | Führungsleiste   | PAD-GP14-040-250DC | PAD-GP14-040-250DC | PAD-GP14-040-250DC | PAD-GP18-040-300DC |
|                    | Spannschraube    | CSTA5S             | CSTA5S             | CSTA5S             | LS1206S            |
|                    | Schraubendreher  | T15                | T15                | T15                | H3                 |
|                    | Schutzleiste     | PAD-P14            | PAD-P14            | PAD-P14            | PAD-P18            |
|                    | Spannschraube    | CSTB5S             | CSTB5S             | CSTA5S             | LS1206S            |
|                    | Schraubendreher  | T15                | T15                | T15                | H3                 |
|                    | Nebenleiste      | PAD-S10            | PAD-S10            | PAD-S10            | PAD-S14            |
|                    | Spannschraube    | CSTB3S             | CSTB3S             | CSTB3S             | CSTA5S             |
|                    | Schraubendreher  | T9                 | T9                 | T9                 | T15                |

## BTADRILL TBTA5\_SE4

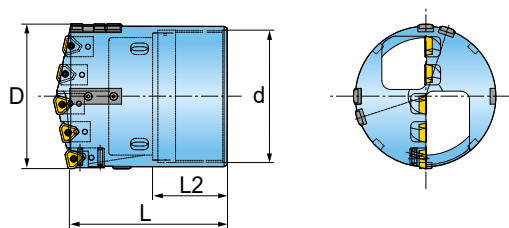
### EINROHR-SYSTEM VIERGÄNGIGES AUSSENGEWINDE



| Artikel-Nr.         | D<br>(Bereich)  | Maße |     |     | Bohrrohr    |             |
|---------------------|-----------------|------|-----|-----|-------------|-------------|
|                     |                 | L    | L2  | d   | Bezeichnung | Durchmesser |
| TBTA5-xxx.xxSE4-094 | 107,00 – 111,99 | 180  | 82  | 89  | BTSE 094    | 94          |
| TBTA5-xxx.xxSE4-106 | 112,00 – 123,99 | 205  | 102 | 101 | BTSE 106    | 106         |
| TBTA5-xxx.xxSE4-118 | 124,00 – 135,99 | 205  | 102 | 113 | BTSE 118    | 118         |
| TBTA5-xxx.xxSE4-130 | 136,00 – 147,99 | 205  | 102 | 125 | BTSE 130    | 130         |
| TBTA5-xxx.xxSE4-142 | 148,00 – 159,99 | 225  | 122 | 137 | BTSE 142    | 142         |
| TBTA5-xxx.xxSE4-154 | 160,00 – 168,99 | 225  | 122 | 149 | BTSE 154    | 154         |

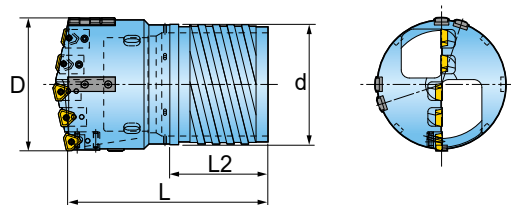
## BTADRILL TBTA5\_SI1

### EINROHR-SYSTEM EINGÄNGIGES INNENGEWINDE



| Artikel-Nr.         | D<br>(Bereich)  | Maße |    |     | Bohrrohr    |             |
|---------------------|-----------------|------|----|-----|-------------|-------------|
|                     |                 | L    | L2 | d   | Bezeichnung | Durchmesser |
| TBTA5-xxx.xxSI1-094 | 107,00 – 110,99 | 150  | 70 | 90  | BTSE 094    | 94          |
| TBTA5-xxx.xxSI1-106 | 111,00 – 122,99 | 150  | 70 | 102 | BTSE 106    | 106         |
| TBTA5-xxx.xxSI1-118 | 123,00 – 134,99 | 150  | 70 | 114 | BTSE 118    | 118         |
| TBTA5-xxx.xxSI1-130 | 135,00 – 148,99 | 150  | 70 | 126 | BTSE 130    | 130         |
| TBTA5-xxx.xxSI1-142 | 149,00 – 161,99 | 150  | 70 | 139 | BTSE 142    | 142         |
| TBTA5-xxx.xxSI1-154 | 162,00 – 168,99 | 190  | 85 | 151 | BTSE 154    | 154         |

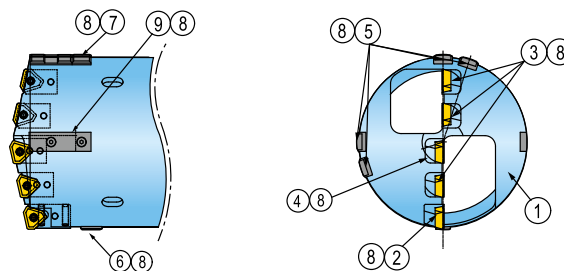
**DOPPELROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**



| Artikel-Nr.         | D<br>(Bereich)  | Maße |     |     | Bohrrohr  |           |             |
|---------------------|-----------------|------|-----|-----|-----------|-----------|-------------|
|                     |                 | L    | L2  | d   | Außenrohr | Innenrohr | Durchmesser |
| TBTA5-xxx.xxDE4-094 | 107,00 - 111,99 | 180  | 82  | 89  | BTDO 094  | BTDI 078  | 94          |
| TBTA5-xxx.xxDE4-106 | 112,00 - 123,99 | 205  | 102 | 101 | BTDO 106  | BTDI 090  | 106         |
| TBTA5-xxx.xxDE4-118 | 124,00 - 135,99 | 205  | 102 | 113 | BTDO 118  | BTDI 092  | 118         |
| TBTA5-xxx.xxDE4-130 | 136,00 - 147,99 | 205  | 102 | 125 | BTDO 130  | BTDI 104  | 130         |
| TBTA5-xxx.xxDE4-142 | 148,00 - 159,99 | 225  | 122 | 137 | BTDO 142  | BTDI 116  | 142         |
| TBTA5-xxx.xxDE4-154 | 160,00 - 168,99 | 225  | 122 | 149 | BTDO 154  | BTDI 128  | 154         |

## AUFBAU DER TBT A5 SERIE

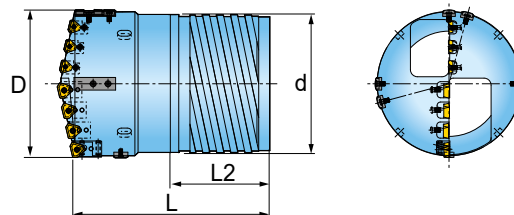
1. Bohrkopf
2. Außenkassette
3. Innenkassette
4. Zentrumskassette
5. Führungsleiste
6. Nebenleiste
7. Schutzleiste
8. Spannschraube
9. Füllstück



| Bezeichnung        |                  | Durchmesser (mm)   |                    |                    |                    |                    |                    |                    |
|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                    |                  | 107,00-117,99      | 118,00-135,99      | 136,00-144,99      | 145,00-150,99      | 151,00-156,99      | 157,00-162,99      | 163,00-168,99      |
| Kassette           | Außenkassette    | PERC 402-43        | PERC 402-43        | PERC 402-43        | PERC 402-43        | PERC 402-63        | PERC 402-63        | PERC 402-63        |
|                    | Verstellschraube | AS0005-15          | AS0005-15          | AS0005-15          | AS0005-15          | AS0006-15          | AS0006-15          | AS0006-15          |
|                    | Schraubendreher  | H2.5               | H2.5               | H2.5               | H2.5               | H3                 | H3                 | H3                 |
|                    | Spannschraube    | LS1806RH           | LS1806RH           | LS1806RH           | LS1806RH           | LS1806RH           | LS1806RH           | LS1806RH           |
|                    | Schraubendreher  | H4                 | H4                 | H4                 | H4                 | H4                 | H4                 | H4                 |
|                    | Innenkassette    | CENC 402-32        | CENC 402-43        | CENC 402-43        | CENC 402-43        | CENC 402-43        | CENC 402-43        | CENC 402-63        |
|                    | Spannschraube    | CSTA5              | LS1206             | LS1206             | LS1206             | LS1206             | LS1206             | LS1206             |
|                    | Schraubendreher  | T15                | H3                 | H3                 | H3                 | H3                 | H3                 | H3                 |
|                    | Zentrumskassette | CENC 402-43        | CENC 402-43        | CENC 402-63        | CENC 402-63        | CENC 402-63        | CENC 402-63        | CENC 402-63        |
|                    | Spannschraube    | LS1206             | LS1206             | LS1206             | LS1206             | LS1206             | LS1206             | LS1206             |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 | H3                 | H3                 | H3                 |
|                    |                  |                    |                    |                    |                    |                    |                    |                    |
| Wendeschneidplatte | Außenkassette    | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB4M             | CSTB4M             | CSTB4M             | CSTB4M             | CSTB5              | CSTB5              | CSTB5              |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                | T20                | T20                | T20                |
|                    | Innenkassette    | TPMX170408R-G      | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB3.5D           | CSTB4M             | CSTB4M             | CSTB4M             | CSTB4M             | CSTB4M             | CSTB5              |
|                    | Schraubendreher  | T9                 | T15                | T15                | T15                | T15                | T15                | T20                |
|                    | Zentrumskassette | TPMX240512R-G      | TPMX240512R-G      | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB4M             | CSTB4M             | CSTB5              | CSTB5              | CSTB5              | CSTB5              | CSTB5              |
|                    | Schraubendreher  | T15                | T15                | T20                | T20                | T20                | T20                | T20                |
| Führungsleisten    | Führungsleiste   | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC |
|                    | Spannschraube    | LS1206S            | LS1206S            | LS1206S            | LS1206S            | LS1206S            | LS1206S            | LS1206S            |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 | H3                 | H3                 | H3                 |
|                    | Schutzleiste     | PAD-P18            | PAD-P18            | PAD-P18            | PAD-P18            | PAD-P18            | PAD-P18            | PAD-P18            |
|                    | Spannschraube    | LS1206S            | LS1206S            | LS1206S            | LS1206S            | LS1206S            | LS1206S            | LS1206S            |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 | H3                 | H3                 | H3                 |
|                    | Nebenleiste      | PAD-S14            | PAD-S14            | PAD-S14            | PAD-S14            | PAD-S14            | PAD-S14            | PAD-S14            |
|                    | Spannschraube    | CSTA5S             | CSTA5S             | CSTA5S             | CSTA5S             | CSTA5S             | CSTA5S             | CSTA5S             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                | T15                | T15                | T15                |

## BTADRILL TBTA7\_SE4

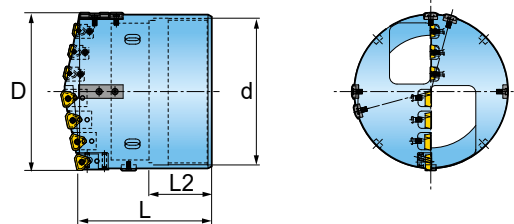
### EINROHR-SYSTEM VIERGÄNGIGES AUSSENGEWINDE



| Artikel-Nr.         | D<br>(Bereich)  | Maße |     |     | Bohrrohr    |             |
|---------------------|-----------------|------|-----|-----|-------------|-------------|
|                     |                 | L    | L2  | d   | Bezeichnung | Durchmesser |
| TBTA7-xxx.xxSE4-154 | 169,00 - 171,99 | 230  | 122 | 149 | BTSI 154    | 154         |
| TBTA7-xxx.xxSE4-166 | 172,00 - 183,99 | 230  | 122 | 161 | BTSI 166    | 166         |
| TBTA7-xxx.xxSE4-178 | 184,00 - 195,99 | 250  | 142 | 173 | BTSI 178    | 178         |
| TBTA7-xxx.xxSE4-190 | 196,00 - 207,99 | 250  | 142 | 185 | BTSI 190    | 190         |
| TBTA7-xxx.xxSE4-202 | 208,00 - 219,99 | 250  | 142 | 197 | BTSI 202    | 202         |
| TBTA7-xxx.xxSE4-214 | 220,00 - 231,99 | 270  | 162 | 208 | BTSI 214    | 214         |
| TBTA7-xxx.xxSE4-226 | 232,00 - 232,99 | 270  | 162 | 220 | BTSI 226    | 226         |

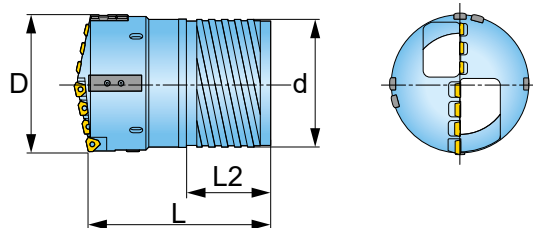
## BTADRILL TBTA7\_S11

### EINROHR-SYSTEM EINGÄNGIGES INNENGEWINDE



| Artikel-Nr.         | D<br>(Bereich)  | Maße |    |     | Bohrrohr    |             |
|---------------------|-----------------|------|----|-----|-------------|-------------|
|                     |                 | L    | L2 | d   | Bezeichnung | Durchmesser |
| TBTA7-xxx.xxS11-154 | 169,00 - 173,99 | 190  | 85 | 145 | BTSE 154    | 154         |
| TBTA7-xxx.xxS11-166 | 174,00 - 185,99 | 190  | 85 | 157 | BTSE 166    | 166         |
| TBTA7-xxx.xxS11-178 | 186,00 - 197,99 | 190  | 85 | 169 | BTSE 178    | 178         |
| TBTA7-xxx.xxS11-190 | 198,00 - 209,99 | 190  | 85 | 181 | BTSE 190    | 190         |
| TBTA7-xxx.xxS11-202 | 210,00 - 221,99 | 190  | 85 | 193 | BTSE 202    | 202         |
| TBTA7-xxx.xxS11-214 | 222,00 - 233,99 | 190  | 85 | 205 | BTSE 214    | 214         |

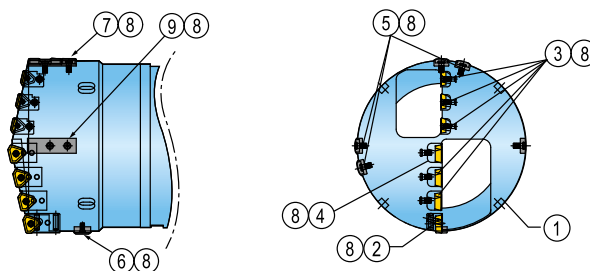
**DOPPELROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**



| Artikel-Nr.                | D<br>(Bereich)  | Maße |     |     | Bohrrohr  |           |             |
|----------------------------|-----------------|------|-----|-----|-----------|-----------|-------------|
|                            |                 | L    | L2  | d   | Außenrohr | Innenrohr | Durchmesser |
| <b>TBTA7-xxx.xxDE4-154</b> | 169,00 – 171,99 | 225  | 122 | 149 | BTDO 154  | BTDI 128  | 154         |
| <b>TBTA7-xxx.xxDE4-166</b> | 172,00 – 183,99 | 225  | 122 | 161 | BTDO 166  | BTDI 138  | 166         |

**AUFBAU DER TBTA7 SERIE**

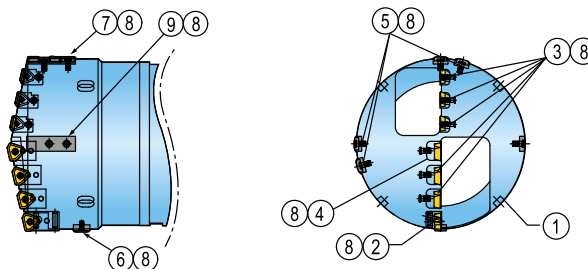
1. Bohrkopf
2. Außenkassette
3. Innenkassette
4. Zentrumskassette
5. Führungsleiste
6. Nebenleiste
7. Schutzleiste
8. Spannschraube
9. Füllstück



| Bezeichnung        |                  | Durchmesser (mm)   |                    |                    |                    |
|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|
|                    |                  | 169,00-188,99      | 189,00-196,99      | 197,00-202,99      | 203,00-208,99      |
| Kassette           | Außenkassette    | PERC 402-43        | PERC 402-43        | PERC 402-43        | PERC 402-43        |
|                    | Verstellschraube | AS0005-15          | AS0005-15          | AS0005-15          | AS0005-15          |
|                    | Schraubendreher  | H2.5               | H2.5               | H2.5               | H2.5               |
|                    | Spannschraube    | LS1806RH           | LS1806RH           | LS1806RH           | LS1806RH           |
|                    | Schraubendreher  | H4                 | H4                 | H4                 | H4                 |
|                    | Innenkassette    | CENC 402-43        | CENC 402-43        | CENC 402-43        | CENC 402-43        |
|                    | Spannschraube    | LS1206             | LS1206             | LS1206             | LS1206             |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    | Zentrumskassette | CENC 402-43        | CENC 402-63        | CENC 402-63        | CENC 402-63        |
|                    | Spannschraube    | LS1206             | LS1206             | LS1206             | LS1206             |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    | Führungsleiste   | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC |
| Wendeschneidplatte | Außenkassette    | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      |
|                    | Spannschraube    | CSTB4M             | CSTB4M             | CSTB4M             | CSTB4M             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                |
|                    | Innenkassette    | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      |
|                    | Spannschraube    | CSTB4M             | CSTB4M             | CSTB4M             | CSTB4M             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                |
|                    | Zentrumskassette | TPMX240512R-G      | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB4M             | CSTB5              | CSTB5              | CSTB5              |
|                    | Schraubendreher  | T15                | T20                | T20                | T20                |
| Führungsleisten    | Spannschraube    | LS1206S            | LS1206S            | LS1206S            | LS1206S            |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    | Schutzleiste     | PAD-P18            | PAD-P18            | PAD-P18            | PAD-P18            |
|                    | Spannschraube    | LS1206S            | LS1206S            | LS1206S            | LS1206S            |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    | Nebenleiste      | PAD-S14            | PAD-S14            | PAD-S14            | PAD-S14            |
|                    | Spannschraube    | CSTA5S             | CSTA5S             | CSTA5S             | CSTA5S             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                |

## AUFBAU DER TBTA7 SERIE

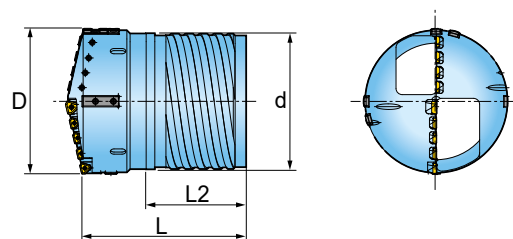
1. Bohrkopf
2. Außenkassette
3. Innenkassette
4. Zentrumskassette
5. Führungsleiste
6. Nebenleiste
7. Schutzleiste
8. Spannschraube
9. Füllstück



| Bezeichnung        |                  | Durchmesser (mm)   |                    |                    |                    |
|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|
|                    |                  | 209,00-214,99      | 215,00-220,99      | 221,00-226,99      | 227,00-232,99      |
| Kassette           | Außenkassette    | PERC 402-63        | PERC 402-63        | PERC 402-63        | PERC 402-63        |
|                    | Verstellschraube | AS0006-15          | AS0006-15          | AS0006-15          | AS0005-15          |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    | Spannschraube    | L1806RH            | L1806RH            | L1806RH            | LS1806RH           |
|                    | Schraubendreher  | H4                 | H4                 | H4                 | H4                 |
|                    | Innenkassette    | CENC 402-43        | CENC 402-43        | CENC 402-43        | CENC 402-63        |
|                    | Spannschraube    | LS1206             | LS1206             | LS1206             | LS1206             |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    | Zentrumskassette | CENC 402-63        | CENC 402-63        | CENC 402-63        | CENC 402-63        |
|                    | Spannschraube    | LS1206             | LS1206             | LS1206             | LS1206             |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
| Wendeschneidplatte | Außenkassette    | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB5              | CSTB5              | CSTB5              | CSTB5              |
|                    | Schraubendreher  | T20                | T20                | T20                | T20                |
|                    | Innenkassette    | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB4M             | CSTB4M             | CSTB4M             | CSTB4M             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                |
|                    | Zentrumskassette | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G      |
|                    | Spannschraube    | CSTB5              | CSTB5              | CSTB5              | CSTB5              |
|                    | Schraubendreher  | T20                | T20                | T20                | T20                |
| Führungsleisten    | Führungsleiste   | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC |
|                    | Spannschraube    | LS1206S            | LS1206S            | LS1206S            | LS1206S            |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    | Schutzleiste     | PAD-P18            | PAD-P18            | PAD-P18            | PAD-P18            |
|                    | Spannschraube    | LS1206S            | LS1206S            | LS1206S            | LS1206S            |
|                    | Schraubendreher  | H3                 | H3                 | H3                 | H3                 |
|                    | Nebenleiste      | PAD-S14            | PAD-S14            | PAD-S14            | PAD-S14            |
|                    | Spannschraube    | CSTA5S             | CSTA5S             | CSTA5S             | CSTA5S             |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                |

## BTADRILL TBTA9\_SE4

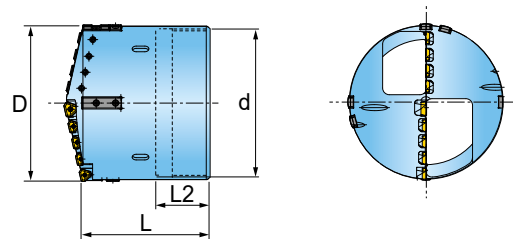
EINROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE



| Artikel-Nr.         | D<br>(Bereich)  | Maße |     |     | Bohrrohr    |             |
|---------------------|-----------------|------|-----|-----|-------------|-------------|
|                     |                 | L    | L2  | d   | Bezeichnung | Durchmesser |
| TBTA9-xxx.xxSE4-226 | 233,00 - 243,99 | 294  | 164 | 220 | BTSI 226    | 226         |
| TBTA9-xxx.xxSE4-238 | 244,00 - 255,99 | 294  | 164 | 232 | BTSI 238    | 238         |
| TBTA9-xxx.xxSE4-250 | 256,00 - 267,99 | 322  | 184 | 244 | BTSI 250    | 250         |
| TBTA9-xxx.xxSE4-262 | 268,00 - 279,99 | 323  | 184 | 256 | BTSI 262    | 262         |
| TBTA9-xxx.xxSE4-274 | 280,00 - 291,99 | 325  | 184 | 268 | BTSI 274    | 274         |

## BTADRILL TBTA9\_S11

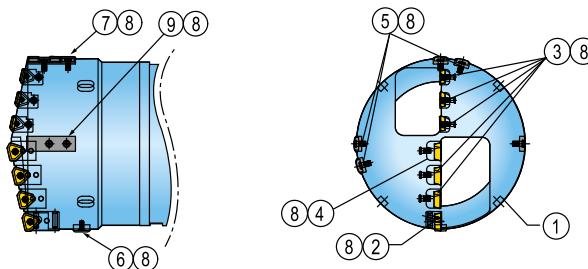
EINROHR-SYSTEM  
EINGÄNGIGES INNENGEWINDE



| Artikel-Nr.         | D<br>(Bereich)  | Maße |     |     | Bohrrohr    |             |
|---------------------|-----------------|------|-----|-----|-------------|-------------|
|                     |                 | L    | L2  | d   | Bezeichnung | Durchmesser |
| TBTA9-xxx.xxS11-214 | 233,00 - 233,99 | 217  | 86  | 211 | BTSE 214    | 214         |
| TBTA9-xxx.xxS11-226 | 234,00 - 245,99 | 219  | 86  | 223 | BTSE 226    | 226         |
| TBTA9-xxx.xxS11-238 | 246,00 - 257,99 | 221  | 86  | 235 | BTSE 238    | 238         |
| TBTA9-xxx.xxS11-250 | 258,00 - 269,99 | 242  | 121 | 247 | BTSE 250    | 250         |
| TBTA9-xxx.xxS11-262 | 270,00 - 281,99 | 244  | 121 | 259 | BTSE 262    | 262         |
| TBTA9-xxx.xxS11-274 | 282,00 - 293,99 | 245  | 121 | 271 | BTSE 274    | 274         |

## AUFBAU DER TBTA9 SERIE

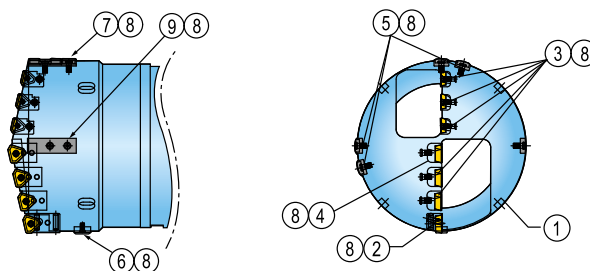
1. Bohrkopf
2. Außenkassette
3. Innenkassette
4. Zentrumskassette
5. Führungsleiste
6. Nebenleiste
7. Schutzleiste
8. Spannschraube
9. Füllstück



| Bezeichnung        |                  | Durchmesser (mm)   |                    |                                |                                |                                |
|--------------------|------------------|--------------------|--------------------|--------------------------------|--------------------------------|--------------------------------|
|                    |                  | 233,00-247,99      | 248,00-253,99      | 254,00-258,99                  | 259,00-264,99                  | 265,00-271,99                  |
| Kassette           | Außenkassette    | PERC 402-43        | PERC 402-63        | PERC 402-63                    | PERC 402-63                    | PERC 402-63                    |
|                    | Verstellschraube | AS0005-15          | AS0006-15          | AS0006-15                      | AS0006-15                      | AS0006-15                      |
|                    | Schraubendreher  | H2.5               | H3                 | H3                             | H3                             | H3                             |
|                    | Spannschraube    | LS1806RH           | L1806RH            | L1806RH                        | L1806RH                        | L1806RH                        |
|                    | Schraubendreher  | H4                 | H4                 | H4                             | H4                             | H4                             |
|                    | Innenkassette    | CENC 402-43        | CENC 402-43        | CENC 402-43<br>CENC 402-63     | CENC 402-43<br>CENC 402-53     | CENC 402-43<br>CENC 402-63     |
|                    | Spannschraube    | LS1206             | LS1206             | LS1206                         | LS1206                         | LS1206                         |
|                    | Schraubendreher  | H3                 | H3                 | H3                             | H3                             | H3                             |
|                    | Zentrumskassette | CENC 402-63        | CENC 402-63        | CENC 402-63                    | CENC 402-63                    | CENC 402-63                    |
|                    | Spannschraube    | LS1206             | LS1206             | LS1206                         | LS1206                         | LS1206                         |
|                    | Schraubendreher  | H3                 | H3                 | H3                             | H3                             | H3                             |
| Wendeschneidplatte | Außenkassette    | TPMX240512R-G      | TPMX280716R-G      | TPMX280716R-G                  | TPMX280716R-G                  | TPMX280716R-G                  |
|                    | Spannschraube    | CSTB4M             | CSTB5              | CSTB5                          | CSTB5                          | CSTB5                          |
|                    | Schraubendreher  | T15                | T20                | T20                            | T20                            | T20                            |
|                    | Innenkassette    | TPMX240512R-G      | TPMX240512R-G      | TPMX240512R-G<br>TPMX280716R-G | TPMX240512R-G<br>TPMX280716R-G | TPMX240512R-G<br>TPMX280716R-G |
|                    | Spannschraube    | CSTB4M             | CSTB4M             | CSTB4M<br>CSTB5                | CSTB4M<br>CSTB5                | CSTB4M<br>CSTB5                |
|                    | Schraubendreher  | T15                | T15                | T15<br>T20                     | T15<br>T20                     | T15<br>T20                     |
|                    | Zentrumskassette | TPMX280716R-G      | TPMX280716R-G      | TPMX280716R-G                  | TPMX280716R-G                  | TPMX280716R-G                  |
|                    | Spannschraube    | CSTB5              | CSTB5              | CSTB5                          | CSTB5                          | CSTB5                          |
|                    | Schraubendreher  | T20                | T20                | T20                            | T20                            | T20                            |
| Führungsleisten    | Führungsleiste   | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC             | PAD-GP18-040-300DC             | PAD-GP18-040-300DC             |
|                    | Spannschraube    | LS1206S            | LS1206S            | LS1206S                        | LS1206S                        | LS1206S                        |
|                    | Schraubendreher  | H3                 | H3                 | H3                             | H3                             | H3                             |
|                    | Schutzleiste     | PAD-P18            | PAD-P18            | PAD-P18                        | PAD-P18                        | PAD-P18                        |
|                    | Spannschraube    | LS1206S            | LS1206S            | LS1206S                        | LS1206S                        | LS1206S                        |
|                    | Schraubendreher  | H3                 | H3                 | H3                             | H3                             | H3                             |
|                    | Nebenleiste      | PAD-S14            | PAD-S14            | PAD-S14                        | PAD-S14                        | PAD-S14                        |
|                    | Spannschraube    | CSTA5S             | CSTA5S             | CSTA5S                         | CSTA5S                         | CSTA5S                         |
|                    | Schraubendreher  | T15                | T15                | T15                            | T15                            | T15                            |

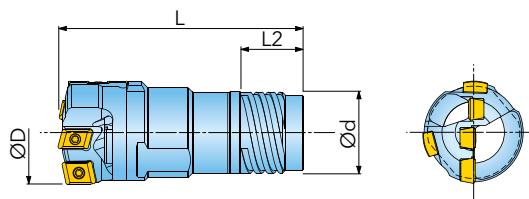
**AUFBAU DER TBTA9 SERIE**

1. Bohrkopf
2. Außenkassette
3. Innenkassette
4. Zentrumskassette
5. Führungsleiste
6. Nebenleiste
7. Schutzleiste
8. Spannschraube
9. Füllstück



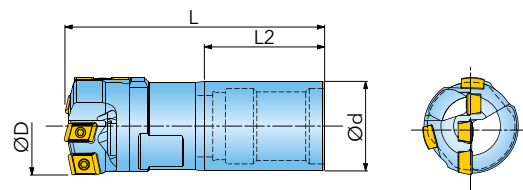
| Bezeichnung        |                  | Durchmesser (mm)               |                                |                                |                    |
|--------------------|------------------|--------------------------------|--------------------------------|--------------------------------|--------------------|
|                    |                  | 272,00-275,99                  | 276,00-284,99                  | 285,00-289,99                  | 290,00-293,99      |
| Kassette           | Außenkassette    | PERC 402-63                    | PERC 402-63                    | PERC 402-63                    | PERC 402-63        |
|                    | Verstellschraube | AS0006-15                      | AS0006-15                      | AS0006-15                      | AS0006-15          |
|                    | Schraubendreher  | H3                             | H3                             | H3                             | H3                 |
|                    | Spannschraube    | L1806RH                        | L1806RH                        | L1806RH                        | L1806RH            |
|                    | Schraubendreher  | H4                             | H4                             | H4                             | H4                 |
|                    | Innenkassette    | CENC 402-43<br>CENC 402-63     | CENC 402-43<br>CENC 402-63     | CENC 402-43<br>CENC 402-63     | CENC 402-63        |
|                    | Spannschraube    | LS1206                         | LS1206                         | LS1206                         | LS1206             |
|                    | Schraubendreher  | H3                             | H3                             | H3                             | H3                 |
|                    | Zentrumskassette | CENC 402-63                    | CENC 402-63                    | CENC 402-63                    | CENC 402-63        |
|                    | Spannschraube    | LS1206                         | LS1206                         | LS1206                         | LS1206             |
|                    | Schraubendreher  | H3                             | H3                             | H3                             | H3                 |
| Wendeschneidplatte | Außenkassette    | TPMX280716R-G                  | TPMX280716R-G                  | TPMX280716R-G                  | TPMX280716R-G      |
|                    | Spannschraube    | CSTB5                          | CSTB5                          | CSTB5                          | CSTB5              |
|                    | Schraubendreher  | T20                            | T20                            | T20                            | T20                |
|                    | Innenkassette    | TPMX240512R-G<br>TPMX280716R-G | TPMX240512R-G<br>TPMX280716R-G | TPMX240512R-G<br>TPMX280716R-G | TPMX280716R-G      |
|                    | Spannschraube    | CSTB4M<br>CSTB5                | CSTB4M<br>CSTB5                | CSTB4M<br>CSTB5                | CSTB5              |
|                    | Schraubendreher  | T15<br>T20                     | T15<br>T20                     | T15<br>T20                     | T20                |
|                    | Zentrumskassette | TPMX280716R-G                  | TPMX280716R-G                  | TPMX280716R-G                  | TPMX280716R-G      |
|                    | Spannschraube    | CSTB5                          | CSTB5                          | CSTB5                          | CSTB5              |
|                    | Schraubendreher  | T20                            | T20                            | T20                            | T20                |
| Führungsleisten    | Führungsleiste   | PAD-GP18-040-300DC             | PAD-GP18-040-300DC             | PAD-GP18-040-300DC             | PAD-GP18-040-300DC |
|                    | Spannschraube    | LS1206S                        | LS1206S                        | LS1206S                        | LS1206S            |
|                    | Schraubendreher  | H3                             | H3                             | H3                             | H3                 |
|                    | Schutzleiste     | PAD-P18                        | PAD-P18                        | PAD-P18                        | PAD-P18            |
|                    | Spannschraube    | LS1206S                        | LS1206S                        | LS1206S                        | LS1206S            |
|                    | Schraubendreher  | H3                             | H3                             | H3                             | H3                 |
|                    | Nebenleiste      | PAD-S14                        | PAD-S14                        | PAD-S14                        | PAD-S14            |
|                    | Spannschraube    | CSTA5S                         | CSTA5S                         | CSTA5S                         | CSTA5S             |
|                    | Schraubendreher  | T15                            | T15                            | T15                            | T15                |

**EINROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**



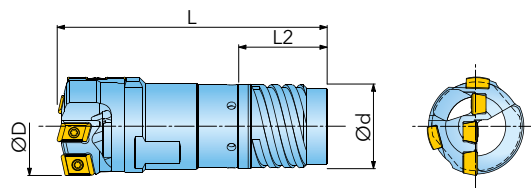
| Artikel-Nr.        | D<br>(Bereich) | Maße |      |      | Bohrrohr    |             |
|--------------------|----------------|------|------|------|-------------|-------------|
|                    |                | L    | L2   | d    | Bezeichnung | Durchmesser |
| TBTA-Hxxx.xxSE4-22 | 25,00 – 26,40  | 73   | 21,5 | 19,5 | BTSI 022    | 22          |
| TBTA-Hxxx.xxSE4-24 | 26,41 – 28,70  | 73   | 21,5 | 21,0 | BTSI 024    | 24          |
| TBTA-Hxxx.xxSE4-26 | 28,71 – 31,00  | 78   | 24,5 | 23,5 | BTSI 026    | 26          |
| TBTA-Hxxx.xxSE4-28 | 31,01 – 33,30  | 78   | 24,5 | 25,5 | BTSI 028    | 28          |
| TBTA-Hxxx.xxSE4-30 | 33,31 – 36,20  | 83   | 24,5 | 28,0 | BTSI 030    | 30          |
| TBTA-Hxxx.xxSE4-33 | 36,21 – 39,60  | 93   | 30,5 | 30,0 | BTSI 033    | 33          |
| TBTA-Hxxx.xxSE4-36 | 39,61 – 43,00  | 99   | 30,5 | 33,0 | BTSI 036    | 36          |
| TBTA-Hxxx.xxSE4-39 | 43,01 – 47,00  | 104  | 30,5 | 36,0 | BTSI 039    | 39          |
| TBTA-Hxxx.xxSE4-43 | 47,01 – 51,70  | 104  | 30,5 | 39,0 | BTSI 043    | 43          |
| TBTA-Hxxx.xxSE4-47 | 51,71 – 56,20  | 114  | 34,5 | 43,0 | BTSI 047    | 47          |
| TBTA-Hxxx.xxSE4-51 | 56,21 – 60,60  | 120  | 34,5 | 47,0 | BTSI 051    | 51          |
| TBTA-Hxxx.xxSE4-56 | 60,61 – 65,00  | 120  | 34,5 | 51,0 | BTSI 056A   | 56          |
| TBTA-Hxxx.xxSE4-56 | 65,01 – 66,99  | 149  | 62,0 | 52,0 | BTSI 056    | 56          |
| TBTA-Hxxx.xxSE4-62 | 67,00 – 72,99  | 149  | 62,0 | 58,0 | BTSI 062    | 62          |
| TBTA-Hxxx.xxSE4-68 | 73,00 – 79,99  | 150  | 62,0 | 63,0 | BTSI 068    | 68          |
| TBTA-Hxxx.xxSE4-72 | 80,00 – 86,99  | 173  | 82,0 | 70,0 | BTSI 072    | 72          |
| TBTA-Hxxx.xxSE4-82 | 87,00 – 89,00  | 173  | 82,0 | 77,0 | BTSI 082    | 82          |

**EINROHR-SYSTEM  
EINGÄNGIGES INNENGEWINDE**



| Artikel-Nr.        | D<br>(Bereich) | Maße |    |    | Bohrrohr    |             |
|--------------------|----------------|------|----|----|-------------|-------------|
|                    |                | L    | L2 | d  | Bezeichnung | Durchmesser |
| TBTA-Hxxx.xxSI1-22 | 25,00 - 26,99  | 73   | 25 | 20 | BTSE 022    | 22          |
| TBTA-Hxxx.xxSI1-24 | 27,00 - 29,00  | 73   | 25 | 22 | BTSE 024    | 24          |
| TBTA-Hxxx.xxSI1-24 | 29,01 - 29,99  | 73   | 25 | 22 | BTSE 024    | 24          |
| TBTA-Hxxx.xxSI1-26 | 30,00 - 31,99  | 78   | 25 | 24 | BTSE 026    | 26          |
| TBTA-Hxxx.xxSI1-28 | 32,00 - 33,99  | 78   | 25 | 26 | BTSE 028    | 28          |
| TBTA-Hxxx.xxSI1-28 | 34,00 - 36,99  | 93   | 25 | 27 | BTSE 028    | 28          |
| TBTA-Hxxx.xxSI1-30 | 37,00 - 39,99  | 98   | 40 | 30 | BTSE 030    | 30          |
| TBTA-Hxxx.xxSI1-30 | 40,00 - 43,99  | 104  | 40 | 33 | BTSE 030    | 30          |
| TBTA-Hxxx.xxSI1-33 | 44,00 - 46,99  | 109  | 40 | 37 | BTSE 033    | 33          |
| TBTA-Hxxx.xxSI1-33 | 47,00 - 51,99  | 109  | 40 | 41 | BTSE 033    | 33          |
| TBTA-Hxxx.xxSI1-36 | 52,00 - 56,99  | 114  | 40 | 44 | BTSE 036    | 36          |
| TBTA-Hxxx.xxSI1-36 | 57,00 - 60,99  | 120  | 40 | 49 | BTSE 036    | 36          |
| TBTA-Hxxx.xxSI1-39 | 61,00 - 65,00  | 120  | 40 | 53 | BTSE 039    | 39          |
| TBTA-Hxxx.xxSI1-56 | 65,01 - 67,99  | 112  | 40 | 53 | BTSE 056    | 56          |
| TBTA-Hxxx.xxSI1-62 | 68,00 - 74,99  | 113  | 40 | 59 | BTSE 062    | 62          |
| TBTA-Hxxx.xxSI1-68 | 75,00 - 80,99  | 143  | 70 | 65 | BTSE 068    | 68          |
| TBTA-Hxxx.xxSI1-75 | 81,00 - 89,00  | 143  | 70 | 71 | BTSE 075    | 75          |

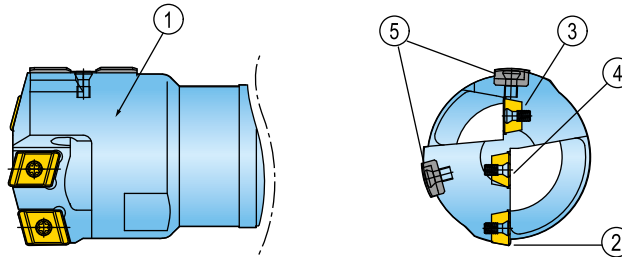
**DOPPELROHR-SYSTEM  
VIERGÄNGIGES AUSSENGWINDE**



| Artikel-Nr.          | D<br>(Bereich) | Maße |      |      | Bohrrohr   |           |             |
|----------------------|----------------|------|------|------|------------|-----------|-------------|
|                      |                | L    | L2   | d    | Außenrohr  | Innenrohr | Durchmesser |
| TBTA-Hxxx.xxDE4-23.5 | 25,00 - 26,40  | 73   | 21,5 | 21,0 | BTDO 023.5 | BTDI 016  | 23,5        |
| TBTA-Hxxx.xxDE4-26   | 26,41 - 28,70  | 78   | 24,5 | 23,5 | BTDO 026   | BTDI 018  | 26          |
| TBTA-Hxxx.xxDE4-28   | 28,71 - 31,00  | 78   | 24,5 | 25,5 | BTDO 028   | BTDI 020  | 28          |
| TBTA-Hxxx.xxDE4-30.5 | 31,01 - 33,30  | 83   | 24,5 | 28,0 | BTDO 030.5 | BTDI 022  | 30,5        |
| TBTA-Hxxx.xxDE4-33   | 33,31 - 36,20  | 93   | 30,5 | 30,0 | BTDO 033   | BTDI 024  | 33          |
| TBTA-Hxxx.xxDE4-35.5 | 36,21 - 39,60  | 99   | 30,5 | 33,0 | BTDO 035.5 | BTDI 026  | 35,5        |
| TBTA-Hxxx.xxDE4-39   | 39,61 - 43,00  | 104  | 30,5 | 36,0 | BTDO 039   | BTDI 029  | 39          |
| TBTA-Hxxx.xxDE4-42.5 | 43,01 - 47,00  | 104  | 30,5 | 39,0 | BTDO 042.5 | BTDI 032  | 42,5        |
| TBTA-Hxxx.xxDE4-46.5 | 47,01 - 51,70  | 114  | 34,5 | 43,0 | BTDO 046.5 | BTDI 035  | 46,5        |
| TBTA-Hxxx.xxDE4-51   | 51,71 - 56,20  | 120  | 34,5 | 47,5 | BTDO 051   | BTDI 039  | 51          |
| TBTA-Hxxx.xxDE4-55.5 | 56,21 - 65,00  | 120  | 34,5 | 51,0 | BTDO 055.5 | BTDI 043A | 55,5        |

## AUFBAU DER TBTA-H SERIE

1. Bohrkopf
2. Außenkassette
3. Innenkassette
4. Zentrumskassette
5. Führungsleiste

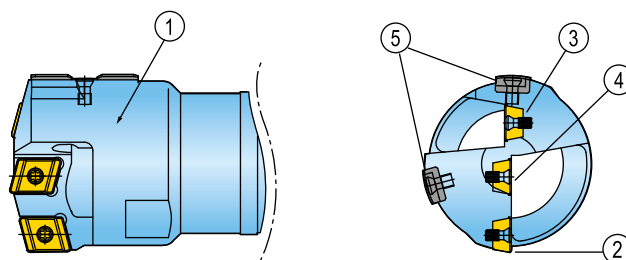


| Bezeichnung        |                  | Durchmesser (mm)   |                    |                    |                    |                    |                    |                    |                    |
|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                    |                  | 25,00-28,00        | 28,01-29,99        | 30,00-35,00        | 35,01-38,00        | 38,01-39,00        | 39,01-41,00        | 41,01-44,00        | 44,01-45,00        |
| Wendeschneidplatte | Außenkassette    | NPHT060304R-G      | NPHT060304R-G      | NPHT080404R-G      | NPHT080404R-G      | NPHT090404R-G      | NPHT090404R-G      | NPHT090404R-G      | NPHT090404R-G      |
|                    | Spannschraube    | CSTB2.2            | CSTB2.2            | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher  | T-7F               | T-7F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               |
|                    | Innenkassette    | NPMT060304R-G      | NPMT060304R-G      | NPMT070404R-G      | NPMT070404R-G      | NPMT070404R-G      | NPMT070404R-G      | NPMT080404R-G      | NPMT080404R-G      |
|                    | Spannschraube    | CSTB2.2            | CSTB2.2            | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher  | T-7F               | T-7F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               |
|                    | Zentrumskassette | NPMT060308L-G      | NPMT070408L-G      | NPMT070408L-G      | NPMT080408L-G      | NPMT080408L-G      | NPMT080408L-G      | NPMT080408L-G      | NPMT100408L-G      |
|                    | Spannschraube    | CSTB2.2            | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher  | T-7F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               |
| Führungsleiste     | Führungsleiste   | PAD-GP06-020-120DC | PAD-GP06-020-120DC | PAD-GP07-020-120DC | PAD-GP07-020-120DC | PAD-GP07-020-120DC | PAD-GP08-025-155DC | PAD-GP08-025-155DC | PAD-GP08-025-155DC |
|                    | Spannschraube    | CSTB2.2S           | CSTB2.2S           | CSTB3S             | CSTB3S             | CSTB3S             | CSTB3S             | CSTB3S             | CSTB3S             |
|                    | Schraubendreher  | T-7F               | T-7F               | T-9F               | T-9F               | T-9F               | T-9F               | T-9F               | T-9F               |

| Bezeichnung        |                  | Durchmesser (mm)   |                    |                    |                    |                    |                    |                    |
|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                    |                  | 45,01-47,00        | 47,01-51,00        | 51,01-54,00        | 54,01-57,00        | 57,01-60,00        | 60,01-64,00        | 64,01-65,00        |
| Wendeschneidplatte | Außenkassette    | NPHT090404R-G      | NPHT110404R-G      | NPHT110404R-G      | NPHT110404R-G      | NPHT110404R-G      | NPHT130404R-G      | NPHT130404R-G      |
|                    | Spannschraube    | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher  | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               |
|                    | Innenkassette    | NPMT080404R-G      | NPMT080404R-G      | NPMT100404R-G      | NPMT100404R-G      | NPMT100404R-G      | NPMT100404R-G      | NPMT130404R-G      |
|                    | Spannschraube    | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher  | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               |
|                    | Zentrumskassette | NPMT100408L-G      | NPMT100408L-G      | NPMT100408L-G      | NPMT130408L-G      | NPMT130408L-G      | NPMT130408L-G      | NPMT130408L-G      |
|                    | Spannschraube    | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher  | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               | T-8F               |
| Führungsleiste     | Führungsleiste   | PAD-GP10-035-200DC | PAD-GP10-035-200DC | PAD-GP10-035-200DC | PAD-GP10-035-200DC | PAD-GP12-035-250DC | PAD-GP12-035-250DC | PAD-GP12-035-250DC |
|                    | Spannschraube    | CSTB3.5            | CSTB3.5            | CSTB3.5            | CSTB3.5            | CSTB3.5            | CSTB3.5            | CSTB3.5            |
|                    | Schraubendreher  | T-15F              | T-15F              | T-15F              | T-15F              | T-15F              | T-15F              | T-15F              |

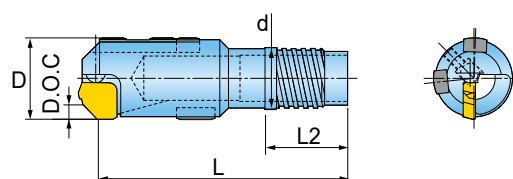
# AUFBAU DER TBTA-H SERIE

1. Bohrkopf
2. Außenkassette
3. Innenkassette
4. Zentrums-kassette
5. Führungsleiste

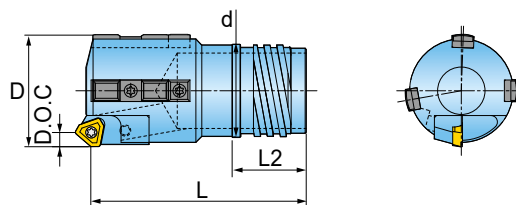


| Bezeichnung        |                 | Durchmesser (mm)   |                    |                    |
|--------------------|-----------------|--------------------|--------------------|--------------------|
|                    |                 | 65,01-71,00        | 71,01-83,00        | 83,01-89,00        |
| Wendeschneidplatte | Außen-WSP       | NPHT110404R-G      | NPHT130404R-G      | NPHT130404R-G      |
|                    | Spannschraube   | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher | T-8F               | T-8F               | T-8F               |
|                    | Innen-WSP 1     | NPMT070404R-B      | NPMT080404R-G      | NPMT080404R-G      |
|                    | Spannschraube   | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher | T-8F               | T-8F               | T-8F               |
|                    | Innen-WSP 2     | NPMT080404R-G      | NPMT080404R-G      | NPMT100404R-G      |
|                    | Spannschraube   | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher | T-8F               | T-8F               | T-8F               |
|                    | Innen-WSP 3     | NPMT080404R-G      | NPMT080404R-G      | NPMT080404R-G      |
|                    | Spannschraube   | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher | T-8F               | T-8F               | T-8F               |
|                    | Zentrums-WSP    | NPMT100408L-G      | NPMT100408L-G      | NPMT130408L-G      |
|                    | Spannschraube   | SR14-560-HG        | SR14-560-HG        | SR14-560-HG        |
|                    | Schraubendreher | T-8F               | T-8F               | T-8F               |
| Führungsleiste     | Führungsleiste  | PAD-GP12-035-250DC | PAD-GP12-035-250DC | PAD-GP12-035-250DC |
|                    | Spannschraube   | CSTB3.5            | CSTB3.5            | CSTB3.5            |
|                    | Schraubendreher | T-15F              | T-15F              | T-15F              |

**EINROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**

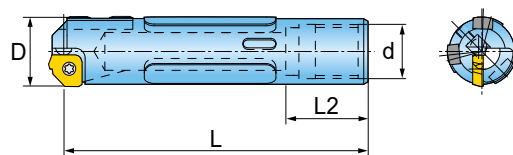


| Artikel-Nr.        | D<br>(Bereich) | D.O.C | Maße |      |      | Bohrrohr    |             |
|--------------------|----------------|-------|------|------|------|-------------|-------------|
|                    |                |       | L    | L2   | d    | Bezeichnung | Durchmesser |
| TBTA-Rxxx.xxSE4-22 | 25,00 – 26,40  | 2,8   | 70   | 21,5 | 19,5 | BTSI 022    | 22          |
| TBTA-Rxxx.xxSE4-24 | 26,41 – 28,70  | 2,8   | 70   | 21,5 | 21   | BTSI 024    | 24          |
| TBTA-Rxxx.xxSE4-26 | 28,71 – 31,00  | 2,8   | 75   | 24,5 | 23,5 | BTSI 026    | 26          |
| TBTA-Rxxx.xxSE4-28 | 31,01 – 33,30  | 2,8   | 75   | 24,5 | 25,5 | BTSI 028    | 28          |
| TBTA-Rxxx.xxSE4-30 | 33,31 – 36,20  | 2,8   | 75   | 24,5 | 28   | BTSI 030    | 30          |
| TBTA-Rxxx.xxSE4-33 | 36,21 – 39,60  | 2,8   | 90   | 30,5 | 30   | BTSI 033    | 33          |
| TBTA-Rxxx.xxSE4-36 | 39,61 – 39,99  | 2,8   | 90   | 30,5 | 33   | BTSI 036    | 36          |

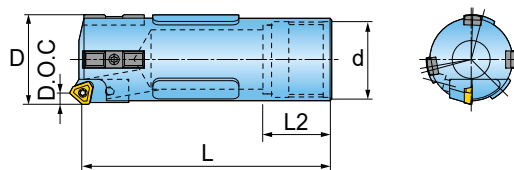
**EINROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**


| Artikel-Nr.         | D<br>(Bereich)  | D.O.C    |           | Maße |      |     | Bohrrohr    |             |
|---------------------|-----------------|----------|-----------|------|------|-----|-------------|-------------|
|                     |                 | Standard | Präzision | L    | L2   | d   | Bezeichnung | Durchmesser |
| TBTA-Rxxx.xxSE4-36  | 40,00 – 43,00   | 6,4      | 4         | 90   | 30,5 | 33  | BTSI 036    | 36          |
| TBTA-Rxxx.xxSE4-39  | 43,01 – 47,00   | 6,4      | 4         | 95   | 30,5 | 36  | BTSI 039    | 39          |
| TBTA-Rxxx.xxSE4-43  | 47,01 – 51,70   | 6,4      | 4         | 100  | 30,5 | 39  | BTSI 043    | 43          |
| TBTA-Rxxx.xxSE4-47  | 51,71 – 56,20   | 6,4/7,2  | 4/4,8     | 100  | 34,5 | 43  | BTSI 047    | 47          |
| TBTA-Rxxx.xxSE4-51  | 56,21 – 60,60   | 7,2      | 4,8       | 105  | 34,5 | 47  | BTSI 051    | 51          |
| TBTA-Rxxx.xxSE4-56A | 60,61 – 65,00   | 7,2      | 4,8       | 110  | 34,5 | 51  | BTSI 056A   | 56          |
| TBTA-Rxxx.xxSE4-56B | 65,00 – 66,99   | 7,2      | 4,8       | 150  | 62   | 52  | BTSI 056B   | 56          |
| TBTA-Rxxx.xxSE4-62  | 67,00 – 72,99   | 10,4     | 6,4       | 150  | 62   | 58  | BTSI 062    | 62          |
| TBTA-Rxxx.xxSE4-68  | 73,00 – 79,99   | 10,4     | 6,4       | 150  | 62   | 63  | BTSI 068    | 68          |
| TBTA-Rxxx.xxSE4-75  | 80,00 – 86,99   | 10,4     | 6,4       | 180  | 82   | 70  | BTSI 075    | 75          |
| TBTA-Rxxx.xxSE4-82  | 87,00 – 99,99   | 10,4     | 6,4       | 180  | 82   | 77  | BTSI 082    | 82          |
| TBTA-Rxxx.xxSE4-94  | 100,00 – 111,99 | 10,4     | 6,4       | 180  | 82   | 89  | BTSI 094    | 94          |
| TBTA-Rxxx.xxSE4-106 | 112,00 – 123,99 | 10,4     | 6,4       | 205  | 102  | 101 | BTSI 106    | 106         |
| TBTA-Rxxx.xxSE4-118 | 124,00 – 135,99 | 10,4     | 6,4       | 205  | 102  | 113 | BTSI 118    | 118         |
| TBTA-Rxxx.xxSE4-130 | 136,00 – 147,99 | 10,4     | 6,4       | 205  | 102  | 125 | BTSI 130    | 130         |
| TBTA-Rxxx.xxSE4-142 | 148,00 – 159,99 | 10,4     | 6,4       | 225  | 122  | 137 | BTSI 142    | 142         |
| TBTA-Rxxx.xxSE4-154 | 160,00 – 171,99 | 10,4     | 6,4       | 225  | 122  | 149 | BTSI 154    | 154         |
| TBTA-Rxxx.xxSE4-166 | 172,00 – 183,99 | 10,4     | 6,4       | 225  | 122  | 161 | BTSI 166    | 166         |
| TBTA-Rxxx.xxSE4-178 | 184,00 – 195,99 | 10,4     | 6,4       | 245  | 142  | 173 | BTSI 178    | 178         |
| TBTA-Rxxx.xxSE4-190 | 196,00 – 207,99 | 10,4     | 6,4       | 245  | 142  | 185 | BTSI 190    | 190         |
| TBTA-Rxxx.xxSE4-202 | 208,00 – 219,99 | 10,4     | 6,4       | 245  | 142  | 197 | BTSI 202    | 202         |
| TBTA-Rxxx.xxSE4-214 | 220,00 – 231,99 | 10,4     | 6,4       | 265  | 162  | 208 | BTSI 214    | 214         |
| TBTA-Rxxx.xxSE4-226 | 232,00 – 243,99 | 10,4     | 6,4       | 265  | 162  | 220 | BTSI 226    | 226         |
| TBTA-Rxxx.xxSE4-238 | 244,00 – 255,99 | 10,4     | 6,4       | 265  | 162  | 232 | BTSI 238    | 238         |
| TBTA-Rxxx.xxSE4-250 | 256,00 – 267,99 | 10,4     | 6,4       | 290  | 184  | 244 | BTSI 250    | 250         |
| TBTA-Rxxx.xxSE4-262 | 268,00 – 279,99 | 10,4     | 6,4       | 290  | 184  | 256 | BTSI 262    | 262         |
| TBTA-Rxxx.xxSE4-274 | 280,00 – 291,99 | 10,4     | 6,4       | 290  | 184  | 268 | BTSI 274    | 274         |

**EINROHR-SYSTEM  
EINGÄNGIGES INNENGEWINDE**

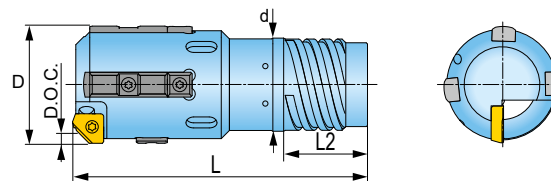


| Artikel-Nr.        | D<br>(Bereich) | D.O.C | Maße |    |    | Bohrrohr    |             |
|--------------------|----------------|-------|------|----|----|-------------|-------------|
|                    |                |       | L    | L2 | d  | Bezeichnung | Durchmesser |
| TBTA-Rxxx.xxSI1-22 | 25,00 - 26,99  | 2,8   | 110  | 25 | 20 | BTSE 022    | 22          |
| TBTA-Rxxx.xxSI1-24 | 27,00 - 29,99  | 2,8   | 110  | 25 | 22 | BTSE 024    | 24          |
| TBTA-Rxxx.xxSI1-26 | 30,00 - 31,99  | 2,8   | 110  | 25 | 24 | BTSE 026    | 26          |
| TBTA-Rxxx.xxSI1-28 | 32,00 - 33,99  | 2,8   | 110  | 25 | 26 | BTSE 028    | 28          |
| TBTA-Rxxx.xxSI1-30 | 34,00 - 36,99  | 2,8   | 135  | 40 | 27 | BTSE 030    | 30          |
| TBTA-Rxxx.xxSI1-33 | 37,00 - 39,99  | 2,8   | 135  | 40 | 30 | BTSE 033    | 33          |

**EINROHR-SYSTEM  
EINGÄNGIGES INNENGEWINDE**


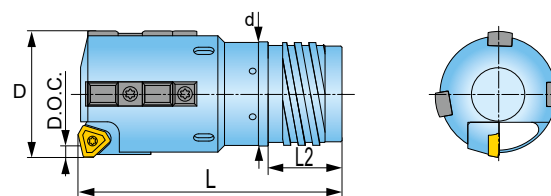
| Artikel-Nr.         | D<br>(Bereich)  | D.O.C    |           | Maße |     |     | Bohrrohr    |             |
|---------------------|-----------------|----------|-----------|------|-----|-----|-------------|-------------|
|                     |                 | Standard | Präzision | L    | L2  | d   | Bezeichnung | Durchmesser |
| TBTA-Rxxx.xxSI1-36  | 40,00 – 43,99   | 6,4      | 4         | 135  | 40  | 33  | BTSE 036    | 36          |
| TBTA-Rxxx.xxSI1-39  | 44,00 – 46,99   | 6,4      | 4         | 135  | 40  | 37  | BTSE 039    | 39          |
| TBTA-Rxxx.xxSI1-43  | 47,00 – 51,99   | 6,4      | 4         | 145  | 40  | 41  | BTSE 043    | 43          |
| TBTA-Rxxx.xxSI1-47  | 52,00 – 56,99   | 7,2      | 4,8       | 145  | 40  | 44  | BTSE 047    | 47          |
| TBTA-Rxxx.xxSI1-51  | 57,00 – 60,99   | 7,2      | 4,8       | 170  | 40  | 49  | BTSE 051    | 51          |
| TBTA-Rxxx.xxSI1-56  | 61,00 – 67,99   | 7,2/10,4 | 4,8/6,4   | 170  | 40  | 53  | BTSE 056    | 56          |
| TBTA-Rxxx.xxSI1-62  | 68,00 – 74,99   | 10,4     | 6,4       | 170  | 40  | 59  | BTSE 062    | 62          |
| TBTA-Rxxx.xxSI1-68  | 75,00 – 80,99   | 10,4     | 6,4       | 205  | 70  | 65  | BTSE 068    | 68          |
| TBTA-Rxxx.xxSI1-75  | 81,00 – 90,99   | 10,4     | 6,4       | 215  | 70  | 71  | BTSE 075    | 75          |
| TBTA-Rxxx.xxSI1-82  | 91,00 – 98,99   | 10,4     | 6,4       | 225  | 70  | 79  | BTSE 082    | 82          |
| TBTA-Rxxx.xxSI1-94  | 99,00 – 110,99  | 10,4     | 6,4       | 235  | 70  | 90  | BTSE 094    | 94          |
| TBTA-Rxxx.xxSI1-106 | 111,00 – 122,99 | 10,4     | 6,4       | 235  | 70  | 102 | BTSE 106    | 106         |
| TBTA-Rxxx.xxSI1-118 | 123,00 – 134,99 | 10,4     | 6,4       | 265  | 70  | 114 | BTSE 118    | 118         |
| TBTA-Rxxx.xxSI1-130 | 135,00 – 148,99 | 10,4     | 6,4       | 265  | 70  | 126 | BTSE 130    | 130         |
| TBTA-Rxxx.xxSI1-142 | 149,00 – 161,99 | 10,4     | 6,4       | 265  | 70  | 139 | BTSE 142    | 142         |
| TBTA-Rxxx.xxSI1-154 | 162,00 – 173,99 | 10,4     | 6,4       | 285  | 85  | 151 | BTSE 154    | 154         |
| TBTA-Rxxx.xxSI1-166 | 174,00 – 185,99 | 10,4     | 6,4       | 285  | 85  | 163 | BTSE 166    | 166         |
| TBTA-Rxxx.xxSI1-178 | 186,00 – 197,99 | 10,4     | 6,4       | 310  | 85  | 175 | BTSE 178    | 178         |
| TBTA-Rxxx.xxSI1-190 | 198,00 – 209,99 | 10,4     | 6,4       | 310  | 85  | 187 | BTSE 190    | 190         |
| TBTA-Rxxx.xxSI1-202 | 210,00 – 221,99 | 10,4     | 6,4       | 320  | 85  | 199 | BTSE 202    | 202         |
| TBTA-Rxxx.xxSI1-214 | 222,00 – 233,99 | 10,4     | 6,4       | 325  | 85  | 211 | BTSE 214    | 214         |
| TBTA-Rxxx.xxSI1-226 | 234,00 – 245,99 | 10,4     | 6,4       | 325  | 85  | 223 | BTSE 226    | 226         |
| TBTA-Rxxx.xxSI1-238 | 246,00 – 257,99 | 10,4     | 6,4       | 325  | 85  | 235 | BTSE 238    | 238         |
| TBTA-Rxxx.xxSI1-250 | 258,00 – 269,99 | 10,4     | 6,4       | 360  | 121 | 245 | BTSE 250    | 250         |
| TBTA-Rxxx.xxSI1-262 | 270,00 – 281,99 | 10,4     | 6,4       | 360  | 121 | 259 | BTSE 262    | 262         |
| TBTA-Rxxx.xxSI1-274 | 282,00 – 293,99 | 10,4     | 6,4       | 360  | 121 | 271 | BTSE 274    | 274         |

**DOPPELROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**



| Artikel-Nr.          | D<br>(Bereich) | D.O.C | Maße |      |      | Bohrrohr   |           |             |
|----------------------|----------------|-------|------|------|------|------------|-----------|-------------|
|                      |                |       | L    | L2   | d    | Außenrohr  | Innenrohr | Durchmesser |
| TBTA-Rxxx.xxDE4-23,5 | 25,00 – 26,40  | 2,8   | 72,5 | 21,5 | 21   | BTDO 023,5 | BTDI 018  | 23,5        |
| TBTA-Rxxx.xxDE4-26   | 26,41 – 28,70  | 2,8   | 72,5 | 24,5 | 23,5 | BTDO 026   | BTDI 018  | 26          |
| TBTA-Rxxx.xxDE4-28   | 28,71 – 31,00  | 2,8   | 75,5 | 24,5 | 25,5 | BTDO 028   | BTDI 020  | 28          |
| TBTA-Rxxx.xxDE4-30,5 | 31,01 – 33,30  | 2,8   | 75,5 | 24,5 | 28   | BTDO 030,5 | BTDI 022  | 30,5        |
| TBTA-Rxxx.xxDE4-33   | 33,31 – 36,20  | 2,8   | 75,5 | 30,5 | 30   | BTDO 033   | BTDI 024  | 33          |
| TBTA-Rxxx.xxDE4-35,5 | 36,21 – 39,60  | 2,8   | 90,5 | 30,5 | 33   | BTDO 035,5 | BTDI 026  | 35,5        |
| TBTA-Rxxx.xxDE4-39   | 39,61 – 39,99  | 2,8   | 90,5 | 30,5 | 36   | BTDO 039   | BTDI 029  | 39          |

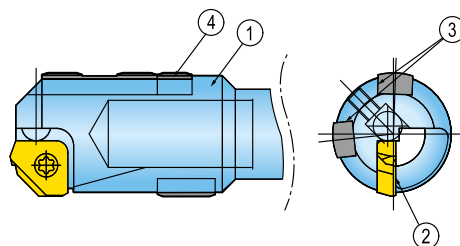
**DOPPELROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**



| Artikel-Nr.          | D<br>(Bereich)  | D.O.C |     | Maße |      |     | Bohrrohr   |           |             |
|----------------------|-----------------|-------|-----|------|------|-----|------------|-----------|-------------|
|                      |                 | OZ    | OX  | L    | L2   | d   | Außenrohr  | Innenrohr | Durchmesser |
| TBTA-Rxxx.xxDE4-39   | 40.00 – 43.00   | 6.4   | 4   | 90   | 30,5 | 36  | BTDO 039   | BTDI 029  | 39          |
| TBTA-Rxxx.xxDE4-42,5 | 43.01 – 47.00   | 6.4   | 4   | 95   | 30,5 | 39  | BTDO 042.5 | BTDI 032  | 42.5        |
| TBTA-Rxxx.xxDE4-46,5 | 47.01 – 51.70   | 6.4   | 4   | 100  | 34,5 | 43  | BTDO 046.5 | BTDI 035  | 46.5        |
| TBTA-Rxxx.xxDE4-51   | 51.71 – 51.99   | 6.4   | 4   | 100  | 34,5 | 47  | BTDO 051   | BTDI 039  | 51          |
| TBTA-Rxxx.xxDE4-51   | 52.00 – 56.20   | 7.2   | 4.8 | 100  | 34,5 | 47  | BTDO 051   | BTDI 039  | 51          |
| TBTA-Rxxx.xxDE4-55,5 | 56.21 – 65.00   | 7.2   | 4.8 | 110  | 34,5 | 51  | BTDO 055.5 | BTDI 043A | 55.5        |
| TBTA-Rxxx.xxDE4-56   | 65.00 – 66.99   | 7.2   | 4.8 | 150  | 62   | 52  | BTDO 056   | BTDI 043  | 56          |
| TBTA-Rxxx.xxDE4-62   | 67.00 – 72.99   | 10.4  | 6.4 | 150  | 62   | 58  | BTDO 062   | BTDI 048  | 62          |
| TBTA-Rxxx.xxDE4-68   | 73.00 – 79.99   | 10.4  | 6.4 | 150  | 62   | 63  | BTSE 068   | BTDI 053  | 68          |
| TBTA-Rxxx.xxDE4-75   | 80.00 – 86.99   | 10.4  | 6.4 | 180  | 82   | 70  | BTSE 075   | BTDI 059  | 75          |
| TBTA-Rxxx.xxDE4-82   | 87.00 – 99.99   | 10.4  | 6.4 | 180  | 82   | 77  | BTSE 082   | BTDI 066  | 82          |
| TBTA-Rxxx.xxDE4-94   | 100.00 – 111.99 | 10.4  | 6.4 | 180  | 82   | 89  | BTSE 094   | BTDI 078  | 94          |
| TBTA-Rxxx.xxDE4-106  | 112.00 – 123.99 | 10.4  | 6.4 | 205  | 102  | 101 | BTSE 106   | BTDI 090  | 106         |
| TBTA-Rxxx.xxDE4-118  | 124.00 – 135.99 | 10.4  | 6.4 | 205  | 102  | 113 | BTSE 118   | BTDI 092  | 118         |
| TBTA-Rxxx.xxDE4-130  | 136.00 – 147.99 | 10.4  | 6.4 | 205  | 102  | 125 | BTSE 130   | BTDI 104  | 130         |
| TBTA-Rxxx.xxDE4-142  | 148.00 – 159.99 | 10.4  | 6.4 | 225  | 122  | 137 | BTSE 142   | BTDI 116  | 142         |
| TBTA-Rxxx.xxDE4-154  | 160.00 – 171.99 | 10.4  | 6.4 | 225  | 122  | 149 | BTSE 154   | BTDI 128  | 154         |
| TBTA-Rxxx.xxDE4-166  | 172.00 – 183.99 | 10.4  | 6.4 | 225  | 122  | 161 | BTSE 166   | BTDI 138  | 166         |

# AUFBAU DER TBTA-R SERIE

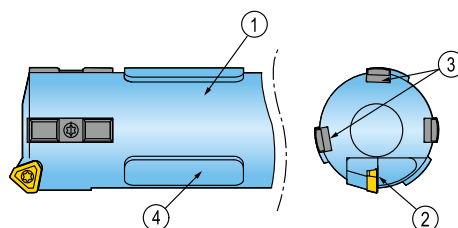
1. Bohrkopf
2. Wendeschneidplatte
3. Führungsleiste
4. Schutzleiste



| Bezeichnung         |                 | Durchmesser (mm)   |                    |                    |                    |
|---------------------|-----------------|--------------------|--------------------|--------------------|--------------------|
|                     |                 | 25,00-27,99        | 28,00-29,99        | 30,00-37,99        | 38,00-39,99        |
| Kleine Schnitttiefe | Kassette        | Verstellkugel      | BALL5              | BALL5              | BALL5              |
|                     |                 | Verstellschraube   | AS0005-5           | AS0005-5           | AS0005-5           |
|                     |                 | Schraubendreher    | H2.5               | H2.5               | H2.5               |
|                     |                 | Spannschraube      | -                  | -                  | -                  |
|                     |                 | Schraubendreher    | -                  | -                  | -                  |
|                     | WSP             | Wendeschneidplatte | XPMT 16002-45      | XPMT 16002-45      | XPMT 16002-45      |
|                     |                 | Spannschraube      | CSTANO3            | CSTANO3            | CSTANO3            |
|                     |                 | Schraubendreher    | T9                 | T9                 | T9                 |
| Große Schnitttiefe  | Kassette        | Außenkassette      | -                  | -                  | -                  |
|                     |                 | Verstellschraube   | -                  | -                  | -                  |
|                     |                 | Schraubendreher    | -                  | -                  | -                  |
|                     |                 | Spannschraube      | -                  | -                  | -                  |
|                     |                 | Schraubendreher    | -                  | -                  | -                  |
|                     | WSP             | Wendeschneidplatte | XPMT 16002-45      | XPMT 16002-45      | XPMT 16002-45      |
|                     |                 | Spannschraube      | CSTANO3            | CSTANO3            | CSTANO3            |
|                     |                 | Schraubendreher    | T9                 | T9                 | T9                 |
| Führungsleisten     | Führungsleisten | Führungsleiste (A) | PAD-GP06-020-120DC | PAD-GP06-020-120DC | PAD-GP07-020-120DC |
|                     |                 | Spannschraube      | CSTB2.2S           | CSTB2.2S           | CSTB3S             |
|                     |                 | Schraubendreher    | T7                 | T7                 | T9                 |
|                     |                 | Schutzleiste (B)   | -                  | -                  | PAD-P08            |
|                     |                 | Spannschraube      | -                  | -                  | CSTB3S             |
|                     |                 | Schraubendreher    | -                  | -                  | T9                 |
|                     |                 | Hilsleiste (C)     | PAD-S06            | PAD-S06            | PAD-S08            |
|                     |                 | Spannschraube      | CSTB2.2S           | CSTB2.2S           | CSTB3S             |
|                     |                 | Schraubendreher    | T7                 | T7                 | T9                 |

## AUFBAU DER TBTA-R SERIE

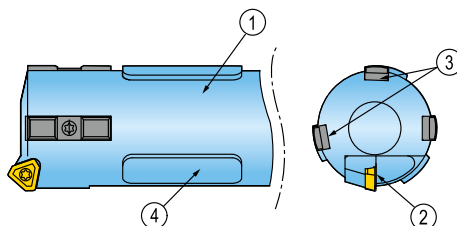
1. Bohrkopf
2. Kassette & Spannschraube
3. Führungsleiste
4. Kunstharzleiste & Spannschraube



| Bezeichnung         |                 | Durchmesser (mm)   |                    |                    |                    |
|---------------------|-----------------|--------------------|--------------------|--------------------|--------------------|
|                     |                 | 40,00-45,99        | 46,00-51,99        | 52,00-59,99        | 60,00-66,99        |
| Kleine Schnitttiefe | Kassette        | Außenkassette      | PERC-P04R          | PERC-P04R          | PERC-P32R          |
|                     |                 | Verstellschraube   | AS0004-8           | AS0004-8           | AS0005-10          |
|                     |                 | Schraubendreher    | H2                 | H2                 | H2.5               |
|                     |                 | Spannschraube      | LS1803.5RH         | LS1803.5RH         | LS1805RH           |
|                     |                 | Schraubendreher    | H2.5               | H2.5               | H3                 |
|                     | WSP             | Wendeschneidplatte | TPMX140308L-G      | TPMX140308L-G      | TPMX170408L-G      |
|                     |                 | Spannschraube      | CSTB2.5            | CSTB2.5            | CSTB3.5D           |
|                     |                 | Schraubendreher    | T8                 | T8                 | T9                 |
|                     |                 | Schraubendreher    | T8                 | T8                 | T9                 |
| Große Schnitttiefe  | Kassette        | Außenkassette      | PERC 402-04        | PERC 402-04        | PERC 402-32        |
|                     |                 | Verstellschraube   | AS0004-8           | AS0004-8           | AS0005-10          |
|                     |                 | Schraubendreher    | H2                 | H2                 | H2.5               |
|                     |                 | Spannschraube      | LS1803.5RH         | LS1803.5RH         | LS1805RH           |
|                     |                 | Schraubendreher    | H2.5               | H2.5               | H3                 |
|                     | WSP             | Wendeschneidplatte | TPMX140308R-G      | TPMX140308R-G      | TPMX170408R-G      |
|                     |                 | Spannschraube      | CSTB2.5            | CSTB2.5            | CSTB3.5D           |
|                     |                 | Schraubendreher    | T8                 | T8                 | T9                 |
|                     |                 | Schraubendreher    | T8                 | T8                 | T9                 |
| Führungsleisten     | Führungsleisten | Führungsleiste (A) | PAD-GP08-025-155DC | PAD-GP10-030-200DC | PAD-GP14-040-250DC |
|                     |                 | Spannschraube      | CSTB3S             | CSTB4S             | CSTB4S             |
|                     |                 | Schraubendreher    | T9                 | T15                | T15                |
|                     |                 | Schutzleiste (B)   | PAD-P08            | PAD-P10            | PAD-P10            |
|                     |                 | Spannschraube      | CSTB3S             | CSTB4S             | CSTB4S             |
|                     |                 | Schraubendreher    | T9                 | T15                | T15                |
|                     |                 | Hilfsleiste (C)    | PAD-S08            | PAD-S08            | PAD-S08            |
|                     |                 | Spannschraube      | CSTB3S             | CSTB3S             | CSTB3S             |
|                     |                 | Schraubendreher    | T9                 | T9                 | T9                 |

## AUFBAU DER TBTA-R SERIE

1. Bohrkopf
2. Kassette & Spannschraube
3. Führungsleiste
4. Kunstharzleiste & Spannschraube

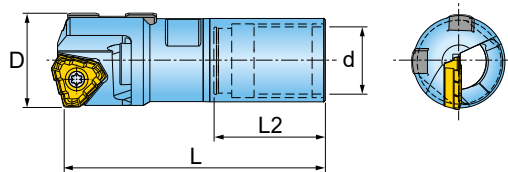


| Bezeichnung         |                    | Durchmesser (mm)   |                    |                    |
|---------------------|--------------------|--------------------|--------------------|--------------------|
|                     |                    | 67,00-99,99        | 81,00-90,99        | 91,00-99,99        |
| Kleine Schnitttiefe | Kassette           | Außenkassette      | PERC-P43R          | PERC-P43R          |
|                     |                    | Verstellschraube   | AS0005-15          | AS0005-15          |
|                     |                    | Schraubendreher    | H2.5               | H2.5               |
|                     |                    | Spannschraube      | LS1806RH           | LS1806RH           |
|                     |                    | Schraubendreher    | H4                 | H4                 |
|                     | WSP                | Wendeschnidplatte  | TPMX240512L-G      | TPMX240512L-G      |
|                     |                    | Spannschraube      | CSTB4M             | CSTB4M             |
|                     |                    | Schraubendreher    | T15                | T15                |
| Große Schnitttiefe  | Kassette           | Außenkassette      | PERC 402-43        | PERC 402-43        |
|                     |                    | Verstellschraube   | AS0005-15          | AS0005-15          |
|                     |                    | Schraubendreher    | H2.5               | H2.5               |
|                     |                    | Spannschraube      | LS1806RH           | LS1806RH           |
|                     |                    | Schraubendreher    | H4                 | H4                 |
|                     | WSP                | Wendeschnidplatte  | TPMX240512R-G      | TPMX240512R-G      |
|                     |                    | Spannschraube      | CSTB4M             | CSTB4M             |
|                     |                    | Schraubendreher    | T15                | T15                |
| Führungsleisten     | Führungsleiste (A) | Führungsleiste (A) | PAD-GP14-040-250DC | PAD-GP18-040-300DC |
|                     |                    | Spannschraube      | CSTA5S             | LS1206S            |
|                     |                    | Schraubendreher    | T15                | H3                 |
|                     | Schutzleiste (B)   | Schutzleiste (B)   | PAD-P14            | PAD-P18            |
|                     |                    | Spannschraube      | CSTA5S             | LS1206S            |
|                     |                    | Schraubendreher    | T15                | H3                 |
|                     | Hilsleiste (C)     | Hilsleiste (C)     | PAD-S10            | PAD-S14            |
|                     |                    | Spannschraube      | CSTB3S             | CSTA5S             |
|                     |                    | Schraubendreher    | T9                 | T15                |

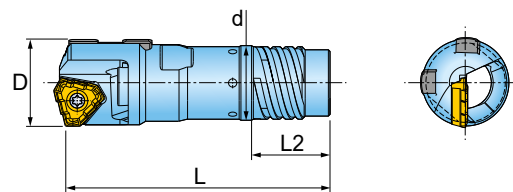
**EINROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**


| Artikel-Nr.        | D<br>(Bereich) | Maße |      |      | Bohrrohr    |             |
|--------------------|----------------|------|------|------|-------------|-------------|
|                    |                | L    | L2   | d    | Bezeichnung | Durchmesser |
| TBTA-DTxx.xxSE4-12 | 14.00 - 14.60  | 57,0 | 23,5 | 10.6 | BTSI 012    | 12          |
| TBTA-DTxx.xxSE4-13 | 14.61 - 15.59  | 57,0 | 23,5 | 11.6 | BTSI 013    | 13          |
| TBTA-DTxx.xxSE4-14 | 15.60 - 15.99  | 57,0 | 23,5 | 12.6 | BTSI 014    | 14          |
| TBTA-DTxx.xxSE4-14 | 16.00 - 16.70  | 55,0 | 20,0 | 12,6 | BTSI 014    | 14          |
| TBTA-DTxx.xxSE4-15 | 16.71 - 17.70  | 55,0 | 20,0 | 13,6 | BTSI 015    | 15          |
| TBTA-DTxx.xxSE4-16 | 17.71 - 18.90  | 56,0 | 21,5 | 14,5 | BTSI 016    | 16          |
| TBTA-DTxx.xxSE4-17 | 18.91 - 20.00  | 56,0 | 21,5 | 15,5 | BTSI 017    | 17          |
| TBTA-DTxx.xxSE4-18 | 20.01 - 21.80  | 60,0 | 21,5 | 16,0 | BTSI 018    | 18          |
| TBTA-DTxx.xxSE4-20 | 21.81 - 21.99  | 63,5 | 21,5 | 18,0 | BTSI 020    | 20          |
| TBTA-DTxx.xxSE4-20 | 22.00 - 24.10  | 65,5 | 21,5 | 18,0 | BTSI 020    | 20          |
| TBTA-DTxx.xxSE4-22 | 24.11 - 26.40  | 65,5 | 21,5 | 19,5 | BTSI 022    | 22          |
| TBTA-DTxx.xxSE4-24 | 26.41 - 28.00  | 65,6 | 21,5 | 21,0 | BTSI 024    | 24          |
| TBTA-DTxx.xxSE4-24 | 28.01 - 28.70  | 70,0 | 21,5 | 21   | BTSI 024    | 24          |
| TBTA-DTxx.xxSE4-26 | 28.71 - 29.99  | 75,0 | 24,5 | 23.5 | BTSI 026    | 26          |
| TBTA-DTxx.xxSE4-26 | 30.00 - 31.00  | 75,0 | 24,5 | 23.5 | BTSI 026    | 26          |
| TBTA-DTxx.xxSE4-28 | 31.01 - 32.00  | 75,0 | 24,5 | 25.5 | BTSI 028    | 28          |
| TBTA-DTxx.xxSE4-28 | 32.01 - 33.30  | 75,0 | 24,5 | 25.5 | BTSI 028    | 28          |
| TBTA-DTxx.xxSE4-30 | 33.31 - 36.20  | 79.5 | 24,5 | 28   | BTSI 030    | 30          |
| TBTA-DTxx.xxSE4-33 | 36.21 - 39.00  | 89.5 | 30,5 | 30   | BTSI 033    | 33          |
| TBTA-DTxx.xxSE4-33 | 39.01 - 39.60  | 89.5 | 30,5 | 30   | BTSI 033    | 33          |
| TBTA-DTxx.xxSE4-36 | 39.61 - 40.00  | 94.5 | 30,5 | 33   | BTSI 036    | 36          |

**EINROHR-SYSTEM  
EINGÄNGIGES INNENGEWINDE**



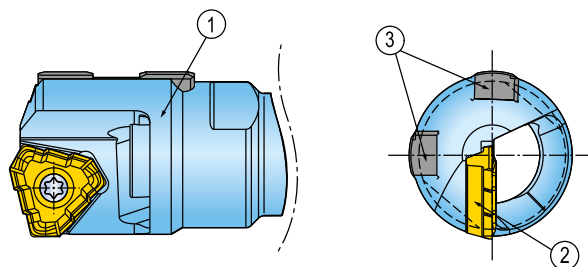
| Artikel-Nr.          | D<br>(Bereich) | Maße |      |      | Bohrrohr    |             |
|----------------------|----------------|------|------|------|-------------|-------------|
|                      |                | L    | L2   | d    | Bezeichnung | Durchmesser |
| TBTA-DTxx.xxSI1-12   | 14.50 – 15.00  | 57   | 23,5 | 11.5 | BTSE 012    | 12          |
| TBTA-DTxx.xxSI1-12   | 15.01 – 15.50  | 57   | 23,5 | 11.8 | BTSE 012    | 12          |
| TBTA-DTxx.xxSI1-13   | 15.51 – 15.99  | 57   | 23,5 | 12.4 | BTSE 013    | 13          |
| TBTA-DT16.00SI1-13A  | 16,00          | 53,5 | 22   | 12,4 | BTSE 013A   | 13          |
| TBTA-DTxx.xxSI1-13B  | 16,01 – 16,50  | 53,5 | 22   | 12,7 | BTSE 013B   | 13          |
| TBTA-DTxx.xxSI1-14A  | 16,51 – 17,25  | 53,5 | 22   | 13,4 | BTSE 014A   | 14          |
| TBTA-DTxx.xxSI1-14B  | 17,26 – 18,00  | 53,5 | 22   | 13,7 | BTSE 014B   | 14          |
| TBTA-DTxx.xxSI1-15   | 18,01 – 19,00  | 53,5 | 22   | 14,4 | BTSE 015    | 15          |
| TBTA-DTxx.xxSI1-16.5 | 19,01 – 19,99  | 53,5 | 22   | 15,4 | BTSE 016.5  | 16,5        |
| TBTA-DTxx.xxSI1-18   | 20,00 – 21,99  | 58,0 | 25   | 16,5 | BTSE 018    | 18          |
| TBTA-DTxx.xxSI1-20   | 22,00 – 24,99  | 60,0 | 25   | 19,0 | BTSE 020    | 20          |
| TBTA-DT25.00SI1-22   | 25,00          | 60,0 | 25   | 20,0 | BTSE 022    | 22          |
| TBTA-DTxx.xxSI1-22   | 25,01 – 26,99  | 65,0 | 25   | 20,0 | BTSE 022    | 22          |
| TBTA-DTxx.xxSI1-24   | 27,00 – 28,00  | 65,0 | 25   | 22,0 | BTSE 024    | 24          |
| TBTA-DTxx.xxSI1-24   | 28,01 – 29,99  | 70   | 25   | 22   | BTSE 024    | 24          |
| TBTA-DTxx.xxSI1-26   | 30,00 – 31,99  | 75   | 25   | 24   | BTSE 026    | 26          |
| TBTA-DTxx.xxSI1-28   | 32,00 – 32,00  | 75   | 25   | 26   | BTSE 028    | 28          |
| TBTA-DTxx.xxSI1-28   | 32,01 – 33,99  | 75   | 25   | 26   | BTSE 028    | 28          |
| TBTA-DTxx.xxSI1-30   | 34,00 – 36,99  | 89.5 | 40   | 27   | BTSE 030    | 30          |
| TBTA-DTxx.xxSI1-33   | 37,00 – 39,00  | 94.5 | 40   | 30   | BTSE 033    | 33          |
| TBTA-DTxx.xxSI1-33   | 39,01 – 39,99  | 94.5 | 40   | 30   | BTSE 033    | 33          |
| TBTA-DTxx.xxSI1-36   | 40,00 – 40,00  | 99.5 | 40   | 33   | BTSE 036    | 36          |

**DOPPELROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**


| Artikel-Nr.          | D<br>(Bereich) | Maße |      |      | Bohrrohr   |           |             |
|----------------------|----------------|------|------|------|------------|-----------|-------------|
|                      |                | L    | L2   | d    | Außenrohr  | Innenrohr | Durchmesser |
| TBTA-DTxx.xxDE4-18   | 18,40 - 20,00  | 59,0 | 21,5 | 16,0 | BTDO 018   | BTDI 012  | 18          |
| TBTA-DTxx.xxDE4-19.5 | 20,01 - 21,80  | 63,5 | 21,5 | 18,0 | BTDO 019.5 | BTDI 014  | 19,5        |
| TBTA-DTxx.xxDE4-21.5 | 21,81 - 21,99  | 63,5 | 21,5 | 19,5 | BTDO 021.5 | BTDI 015  | 21,5        |
| TBTA-DTxx.xxDE4-21.5 | 22,00 - 24,10  | 65,5 | 21,5 | 19,5 | BTDO 021.5 | BTDI 015  | 21,5        |
| TBTA-DTxx.xxDE4-23.5 | 24,11 - 25,00  | 65,5 | 21,5 | 21,0 | BTDO 023.5 | BTDI 016  | 23,5        |
| TBTA-DTxx.xxDE4-23.5 | 25,01 - 26,40  | 67,5 | 21,5 | 21,0 | BTDO 023.5 | BTDI 016  | 23,5        |
| TBTA-DTxx.xxDE4-26   | 26,41 - 28,00  | 70,5 | 24,5 | 23,5 | BTDO 026   | BTDI 028  | 26          |
| TBTA-DTxx.xxDE4-26   | 28,01 - 28,70  | 75   | 24,5 | 23,5 | BTDO 026   | BTDI 028  | 26          |
| TBTA-DTxx.xxDE4-28   | 28,71 - 29,99  | 75   | 24,5 | 25,5 | BTDO 028   | BTDI 020  | 28          |
| TBTA-DTxx.xxDE4-28   | 30,00 - 31,00  | 75   | 24,5 | 25,5 | BTDO 028   | BTDI 020  | 28          |
| TBTA-DTxx.xxDE4-30,5 | 31,01 - 32,00  | 80   | 24,5 | 28   | BTDO 030,5 | BTDI 022  | 30,5        |
| TBTA-DTxx.xxDE4-30,5 | 32,01 - 33,30  | 80   | 24,5 | 28   | BTDO 030,5 | BTDI 022  | 30,5        |
| TBTA-DTxx.xxDE4-33   | 33,31 - 36,20  | 89,5 | 30,5 | 30   | BTDO 033   | BTDI 024  | 33          |
| TBTA-DTxx.xxDE4-35,5 | 36,21 - 39,00  | 94,5 | 30,5 | 33   | BTDO 035,5 | BTDI 026  | 35,5        |
| TBTA-DTxx.xxDE4-35,5 | 39,01 - 39,60  | 94,5 | 30,5 | 33   | BTDO 035,5 | BTDI 026  | 35,5        |
| TBTA-DTxx.xxDE4-39   | 39,61 - 40,00  | 99,5 | 30,5 | 36   | BTDO 039   | BTDI 029  | 39          |

**AUFBAU DER TBTA-DT SERIE**

1. Bohrkopf
2. Wendeschneidplatte
3. Führungsleiste



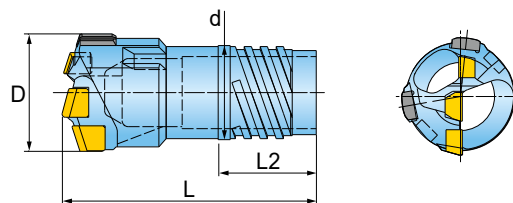
| Bezeichnung     |                    | Durchmesser (mm)   |                  |                    |                    |                    |                    |
|-----------------|--------------------|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|
|                 |                    | 14,00-15,99        | 16,00-18,00      | 18,01-20,00        | 20,01-21,00        | 21,01-21,99        | 22,00-25,00        |
| WSP             | Wendeschneidplatte | TPHT070304R        | TPHT080305R      | TPHT090305R        | TPHT100305R        | TPHT100305R        | TPHT110405R        |
|                 | Spannschraube      | CSTB 2.5S          | CSTB 2.5S        | CSTB 2.5S          | CSTB 3S            | CSTB 3S            | CSTB 3.5H          |
|                 | Schraubendreher    | T-8F               | T-8F             | T-8F               | T-9F               | T-9F               | T-15F              |
| Führungsleisten | Führungsleiste     | PAD-GP05-018-060DC | PAD-GP05-018-075 | PAD-GP06-020-085DC | PAD-GP06-020-085DC | PAD-GP06-020-100DC | PAD-GP06-020-100DC |
|                 | Spannschraube      | CSTB 2.2S          | CSTB 2.2S        | CSTB 2.2S          | CSTB 2.2S          | CSTB 2.2S          | CSTB 2.2S          |
|                 | Schraubendreher    | T-7F               | T-7F             | T-7F               | T-7F               | T-7F               | T-7F               |
|                 |                    |                    |                  |                    |                    |                    |                    |

| Bezeichnung     |                    | Durchmesser (mm)   |                    |                    |                    |                    |
|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                 |                    | 25,01-28,00        | 28,01-29,99        | 30,00-32,00        | 32,01-39,00        | 39,01-40,00        |
| WSP             | Wendeschneidplatte | TPHT120405R        | TPHT130408R        | TPHT130408R        | TPHT140510R        | TPHT140510R        |
|                 | Spannschraube      | CSTB 4S            | SR16-212/L10       | SR16-212/L10       | SR16-212/L10       | SR16-212/L10       |
|                 | Schraubendreher    | T-15F              | T20F               | T20F               | T20F               | T20F               |
| Führungsleisten | Führungsleiste     | PAD-GP06-020-120DC | PAD-GP06-020-120DC | PAD-GP07-020-120DC | PAD-GP07-020-120DC | PAD-GP08-025-155DC |
|                 | Spannschraube      | CSTB 2.2S          | CSTB 2.2S          | CSTB3S             | CSTB3S             | CSTB3S             |
|                 | Schraubendreher    | T-7F               | T-7F               | T-9F               | T-9F               | T-9F               |
|                 |                    |                    |                    |                    |                    |                    |

**EINROHR-SYSTEM  
ZWEIGÄNGIGES AUSSENGEWINDE**



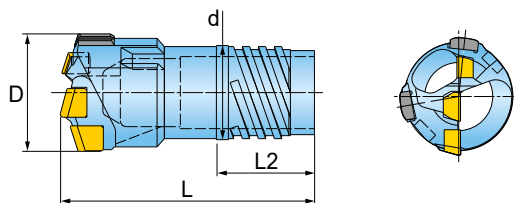
Ø12,60 - Ø15,59



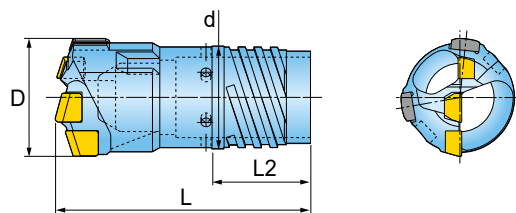
| Artikel-Nr.       | D<br>(Bereich) | Maße |      |      | Bohrrohr    |             |
|-------------------|----------------|------|------|------|-------------|-------------|
|                   |                | L    | L2   | d    | Bezeichnung | Durchmesser |
| BTAxxx.xx SE2-11* | 12,60 - 13,10  | 43,0 | 23,5 | 9,6  | BTSI011     | 11          |
| BTAxxx.xx SE2-11* | 13,11 - 13,60  | 43,0 | 23,5 | 9,6  | BTSI011     | 11          |
| BTAxxx.xx SE2-12* | 13,61 - 14,10  | 43,0 | 23,5 | 10,6 | BTSI012     | 12          |
| BTAxxx.xx SE2-12* | 14,11 - 14,60  | 43,0 | 23,5 | 10,6 | BTSI012     | 12          |
| BTAxxx.xx SE2-13* | 14,61 - 15,10  | 43,0 | 23,5 | 11,6 | BTSI013     | 13          |
| BTAxxx.xx SE2-13* | 15,11 - 15,59  | 43,0 | 23,5 | 11,6 | BTSI013     | 13          |

\*2 Schneiden Bohrkopf.

# EINROHR-SYSTEM VIERGÄNGIGES AUSSERGEWINDE



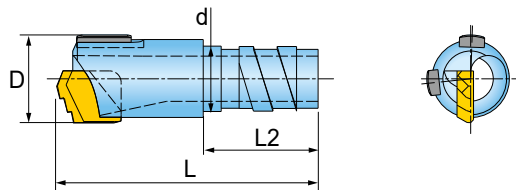
| Artikel-Nr.      | D<br>(Bereich) | Maße |      |      | Bohrrohr    |             |
|------------------|----------------|------|------|------|-------------|-------------|
|                  |                | L    | L2   | d    | Bezeichnung | Durchmesser |
| BTAXXX.xx SE4-14 | 15,60 - 16,20  | 43,0 | 20,0 | 12,6 | BTSI014     | 14          |
| BTAXXX.xx SE4-14 | 16,21 - 16,70  | 43,0 | 20,0 | 12,6 | BTSI014     | 14          |
| BTAXXX.xx SE4-15 | 16,71 - 17,20  | 43,0 | 20,0 | 13,6 | BTSI015     | 15          |
| BTAXXX.xx SE4-15 | 17,21 - 17,70  | 43,0 | 20,0 | 13,6 | BTSI015     | 15          |
| BTAXXX.xx SE4-16 | 17,71 - 18,40  | 47,0 | 21,5 | 14,5 | BTSI016     | 16          |
| BTAXXX.xx SE4-16 | 18,41 - 18,90  | 47,0 | 21,5 | 14,5 | BTSI016     | 16          |
| BTAXXX.xx SE4-17 | 18,91 - 19,20  | 47,0 | 21,5 | 15,5 | BTSI017     | 17          |
| BTAXXX.xx SE4-17 | 19,21 - 20,00  | 47,0 | 21,5 | 15,5 | BTSI017     | 17          |
| BTAXXX.xx SE4-18 | 20,01 - 20,90  | 52,5 | 21,5 | 16,0 | BTSI018     | 18          |
| BTAXXX.xx SE4-18 | 20,91 - 21,80  | 52,5 | 21,5 | 16,0 | BTSI018     | 18          |
| BTAXXX.xx SE4-20 | 21,81 - 22,90  | 56,0 | 21,5 | 18,0 | BTSI020     | 20          |
| BTAXXX.xx SE4-20 | 22,91 - 24,10  | 56,0 | 21,5 | 18,0 | BTSI020     | 20          |
| BTAXXX.xx SE4-22 | 24,11 - 25,20  | 57,5 | 21,5 | 19,5 | BTSI022     | 22          |
| BTAXXX.xx SE4-22 | 25,21 - 26,40  | 57,5 | 21,5 | 19,5 | BTSI022     | 22          |
| BTAXXX.xx SE4-24 | 26,41 - 27,50  | 57,5 | 21,5 | 21,0 | BTSI024     | 24          |
| BTAXXX.xx SE4-24 | 27,51 - 28,70  | 57,5 | 21,5 | 21,0 | BTSI024     | 24          |
| BTAXXX.xx SE4-26 | 28,71 - 29,80  | 63,5 | 24,5 | 23,5 | BTSI026     | 26          |
| BTAXXX.xx SE4-26 | 29,81 - 31,00  | 63,5 | 24,5 | 23,5 | BTSI026     | 26          |
| BTAXXX.xx SE4-28 | 31,01 - 32,10  | 63,5 | 24,5 | 25,5 | BTSI028     | 28          |
| BTAXXX.xx SE4-28 | 32,11 - 33,30  | 63,5 | 24,5 | 25,5 | BTSI028     | 28          |
| BTAXXX.xx SE4-30 | 33,31 - 34,80  | 63,5 | 24,5 | 28,0 | BTSI030     | 30          |
| BTAXXX.xx SE4-30 | 34,81 - 36,20  | 63,5 | 24,5 | 28,0 | BTSI030     | 30          |
| BTAXXX.xx SE4-33 | 36,21 - 37,30  | 73,5 | 30,5 | 30,0 | BTSI033     | 33          |
| BTAXXX.xx SE4-33 | 37,31 - 38,40  | 73,5 | 30,5 | 30,0 | BTSI033     | 33          |
| BTAXXX.xx SE4-33 | 38,41 - 39,60  | 73,5 | 30,5 | 30,0 | BTSI033     | 33          |
| BTAXXX.xx SE4-36 | 39,61 - 40,60  | 73,5 | 30,5 | 33,0 | BTSI036     | 36          |
| BTAXXX.xx SE4-36 | 40,61 - 41,80  | 73,5 | 30,5 | 33,0 | BTSI036     | 36          |
| BTAXXX.xx SE4-36 | 41,81 - 43,00  | 73,5 | 30,5 | 33,0 | BTSI036     | 36          |
| BTAXXX.xx SE4-39 | 43,01 - 44,30  | 75,0 | 30,5 | 36,0 | BTSI039     | 39          |
| BTAXXX.xx SE4-39 | 44,31 - 45,60  | 75,0 | 30,5 | 36,0 | BTSI039     | 39          |
| BTAXXX.xx SE4-39 | 45,61 - 47,00  | 75   | 30,5 | 36,0 | BTSI039     | 39          |
| BTAXXX.xx SE4-43 | 47,01 - 48,50  | 75   | 30,5 | 39,0 | BTSI043     | 43          |
| BTAXXX.xx SE4-43 | 48,51 - 50,10  | 75   | 30,5 | 39,0 | BTSI043     | 43          |
| BTAXXX.xx SE4-43 | 50,11 - 51,70  | 75   | 30,5 | 39,0 | BTSI043     | 43          |
| BTAXXX.xx SE4-47 | 51,71 - 53,20  | 82   | 34,5 | 43,0 | BTSI047     | 47          |
| BTAXXX.xx SE4-47 | 53,21 - 54,70  | 82   | 34,5 | 43,0 | BTSI047     | 47          |
| BTAXXX.xx SE4-47 | 54,71 - 56,20  | 82   | 34,5 | 43,0 | BTSI047     | 47          |
| BTAXXX.xx SE4-51 | 56,21 - 58,40  | 84   | 34,5 | 47,0 | BTSI051     | 51          |
| BTAXXX.xx SE4-51 | 58,41 - 60,60  | 84   | 34,5 | 47,0 | BTSI051     | 51          |
| BTAXXX.xx SE4-51 | 60,61 - 62,80  | 84   | 34,5 | 47,0 | BTSI051     | 51          |
| BTAXXX.xx SE4-51 | 62,81 - 65,00  | 84   | 34,5 | 47,0 | BTSI051     | 51          |
| BTAXXX.xx SE4-56 | 60,61 - 62,80  | 84   | 34,5 | 51,0 | BTSI056     | 56          |
| BTAXXX.xx SE4-56 | 62,81 - 65,00  | 84   | 34,5 | 51,0 | BTSI056     | 56          |

**DOPPELROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**


| Artikel-Nr.        | D<br>(Bereich) | Maße |      |      | Bohrrohr  |           |             |
|--------------------|----------------|------|------|------|-----------|-----------|-------------|
|                    |                | L    | L2   | d    | Außenrohr | Innenrohr | Durchmesser |
| BTAXXX.xx DE4-18   | 18,41 – 19,20  | 50,0 | 21,5 | 16,0 | BTDO018   | BTDI012   | 18,0        |
| BTAXXX.xx DE4-18   | 19,21 – 20,00  | 50,0 | 21,5 | 16,0 | BTDO018   | BTDI012   | 18,0        |
| BTAXXX.xx DE4-19.5 | 20,01 – 20,90  | 56,0 | 21,5 | 18,0 | BTDO019.5 | BTDI014   | 19,5        |
| BTAXXX.xx DE4-19.5 | 20,91 – 21,80  | 56,0 | 21,5 | 18,0 | BTDO019.5 | BTDI014   | 19,5        |
| BTAXXX.xx DE4-21.5 | 21,81 – 22,90  | 56,0 | 21,5 | 19,5 | BTDO021.5 | BTDI015   | 21,5        |
| BTAXXX.xx DE4-21.5 | 22,91 – 24,10  | 56,0 | 21,5 | 19,5 | BTDO021.5 | BTDI015   | 21,5        |
| BTAXXX.xx DE4-23.5 | 24,11 – 25,20  | 57,5 | 21,5 | 21,0 | BTDO023.5 | BTDI016   | 23,5        |
| BTAXXX.xx DE4-23.5 | 25,21 – 26,40  | 57,5 | 21,5 | 21,0 | BTDO023.5 | BTDI016   | 23,5        |
| BTAXXX.xx DE4-26   | 26,41 – 27,50  | 60,5 | 24,5 | 23,5 | BTDO026   | BTDI018   | 26,0        |
| BTAXXX.xx DE4-26   | 27,51 – 28,70  | 60,5 | 24,5 | 23,5 | BTDO026   | BTDI018   | 26,0        |
| BTAXXX.xx DE4-28   | 28,71 – 29,80  | 63,5 | 24,5 | 25,5 | BTDO028   | BTDI020   | 28,0        |
| BTAXXX.xx DE4-28   | 29,81 – 31,00  | 63,5 | 24,5 | 25,5 | BTDO028   | BTDI020   | 28,0        |
| BTAXXX.xx DE4-30.5 | 31,01 – 32,10  | 63,5 | 24,5 | 28,0 | BTDO030.5 | BTDI022   | 30,5        |
| BTAXXX.xx DE4-30.5 | 32,11 – 33,30  | 63,5 | 24,5 | 28,0 | BTDO030.5 | BTDI022   | 30,5        |
| BTAXXX.xx DE4-33   | 33,31 – 34,80  | 70,5 | 30,5 | 30,0 | BTDO033.0 | BTDI024   | 33,0        |
| BTAXXX.xx DE4-33   | 34,81 – 36,20  | 70,5 | 30,5 | 30,0 | BTDO033.0 | BTDI024   | 33,0        |
| BTAXXX.xx DE4-35.5 | 36,21 – 37,30  | 73,5 | 30,5 | 33,0 | BTDO035.5 | BTDI026   | 35,5        |
| BTAXXX.xx DE4-35.5 | 37,31 – 38,40  | 73,5 | 30,5 | 33,0 | BTDO035.5 | BTDI026   | 35,5        |
| BTAXXX.xx DE4-35.5 | 38,41 – 39,60  | 73,5 | 30,5 | 33,0 | BTDO035.5 | BTDI026   | 35,5        |
| BTAXXX.xx DE4-39   | 39,61 – 40,60  | 73,5 | 30,5 | 36,0 | BTDO039   | BTDI029   | 39,0        |
| BTAXXX.xx DE4-39   | 40,61 – 41,80  | 73,5 | 30,5 | 36,0 | BTDO039   | BTDI029   | 39,0        |
| BTAXXX.xx DE4-39   | 41,81 – 43,00  | 73,5 | 30,5 | 36,0 | BTDO039   | BTDI029   | 39,0        |
| BTAXXX.xx DE4-42.5 | 43,01 – 44,30  | 75,0 | 30,5 | 39,0 | BTDO042.5 | BTDI032   | 42,5        |
| BTAXXX.xx DE4-42.5 | 44,31 – 45,60  | 75,0 | 30,5 | 39,0 | BTDO042.5 | BTDI032   | 42,5        |
| BTAXXX.xx DE4-42.5 | 45,61 – 47,00  | 75,0 | 30,5 | 39,0 | BTDO042.5 | BTDI032   | 42,5        |
| BTAXXX.xx DE4-46.5 | 47,01 – 48,50  | 79,0 | 34,5 | 43,0 | BTDO046.5 | BTDI035   | 46,5        |
| BTAXXX.xx DE4-46.5 | 48,51 – 50,10  | 79,0 | 34,5 | 43,0 | BTDO046.5 | BTDI035   | 46,5        |
| BTAXXX.xx DE4-46.5 | 50,11 – 51,70  | 79,0 | 34,5 | 43,0 | BTDO046.5 | BTDI035   | 46,5        |
| BTAXXX.xx DE4-51   | 51,71 – 53,20  | 82,0 | 34,5 | 47,0 | BTDO051   | BTDI039   | 51,0        |
| BTAXXX.xx DE4-51   | 53,21 – 54,70  | 82,0 | 34,5 | 47,0 | BTDO051   | BTDI039   | 51,0        |
| BTAXXX.xx DE4-51   | 54,71 – 56,20  | 82,0 | 34,5 | 47,0 | BTDO051   | BTDI039   | 51,0        |
| BTAXXX.xx DE4-55.5 | 56,21 – 58,40  | 84,0 | 34,5 | 51,0 | BTDO055.5 | BTDI043A  | 55,5        |
| BTAXXX.xx DE4-55.5 | 58,41 – 60,60  | 84,0 | 34,5 | 51,0 | BTDO055.5 | BTDI043A  | 55,5        |
| BTAXXX.xx DE4-55.5 | 60,61 – 62,80  | 84,0 | 34,5 | 51,0 | BTDO055.5 | BTDI043A  | 55,5        |
| BTAXXX.xx DE4-55.5 | 62,81 – 65,00  | 84,0 | 34,5 | 51,0 | BTDO055.5 | BTDI043A  | 55,5        |

## BTADRILL BTS\_SE1

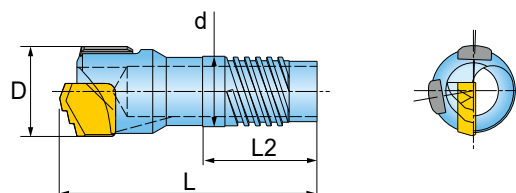
### EINROHR-SYSTEM EINGÄNGIGES AUSSENGEWINDE



| Artikel-Nr.       | D<br>(Bereich) | Maße |    |      | Bohrrohr    |             |
|-------------------|----------------|------|----|------|-------------|-------------|
|                   |                | L    | L2 | d    | Bezeichnung | Durchmesser |
| BTSxxx.xx SE1-7,1 | 8,00 – 8,99    | 35,6 | 16 | 6    | BTS0071     | 7,1         |
| BTSxxx.xx SE1-8,3 | 9,00 – 9,99    | 35,6 | 16 | 7,2  | BTS0083     | 8,3         |
| BTSxxx.xx SE1-9   | 10,00 – 10,99  | 35,7 | 16 | 7,6  | BTS0090     | 9           |
| BTSxxx.xx SE1-10  | 11,00 – 11,99  | 35,7 | 16 | 8,6  | BTS0100     | 10          |
| BTSxxx.xx SE1-11  | 12,00 – 13,49  | 35,7 | 16 | 9,1  | BTS0110     | 11          |
| BTSxxx.xx SE1-12  | 13,50 – 14,79  | 36   | 16 | 10,8 | BTS0120     | 12          |

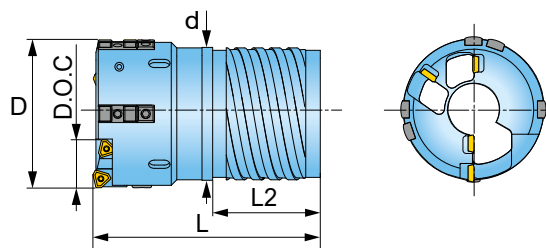
## BTADRILL BTS\_SE2/SE4

### EINROHR-SYSTEM ZWEI- ODER VIERGÄNGIGES AUSSENGEWINDE



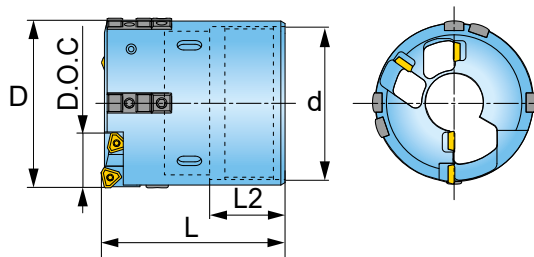
| Artikel-Nr.       | D<br>(Bereich) | Maße |      |      | Bohrrohr    |             |
|-------------------|----------------|------|------|------|-------------|-------------|
|                   |                | L    | L2   | d    | Bezeichnung | Durchmesser |
| BTSxxx.xx SE2-11* | 12,60 – 13,60  | 42,6 | 20,5 | 9,6  | BTSI011     | 11          |
| BTSxxx.xx SE2-12* | 13,61 – 14,60  | 42,7 | 22,5 | 10,6 | BTSI012     | 12          |
| BTSxxx.xx SE2-13* | 14,61 – 15,59  | 42,7 | 22,5 | 11,6 | BTSI013     | 13          |
| BTSxxx.xx SE4-14  | 15,60 – 16,70  | 43,3 | 22,5 | 12,6 | BTSI014     | 14          |
| BTSxxx.xx SE4-15  | 16,71 – 17,70  | 43,3 | 22,5 | 13,6 | BTSI015     | 15          |
| BTSxxx.xx SE4-16  | 17,71 – 18,90  | 43,6 | 22,5 | 14,5 | BTSI016     | 16          |
| BTSxxx.xx SE4-17  | 18,91 – 20,00  | 43,6 | 22,5 | 15,5 | BTSI017     | 17          |

\*zweigängiges Aussengewinde.

**EINROHR-SYSTEM  
VIERGÄNGIGES AUSSENGEWINDE**


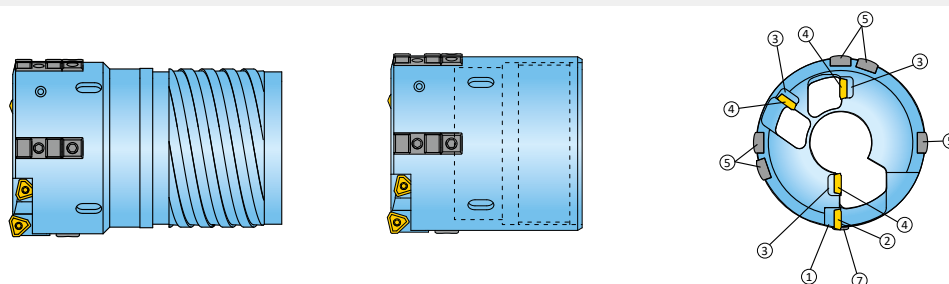
| Artikel-Nr.        | D<br>(Bereich)  | Maße |     |     | Bohrrohr    |             |
|--------------------|-----------------|------|-----|-----|-------------|-------------|
|                    |                 | L    | L2  | d   | Bezeichnung | Durchmesser |
| TBTA-Txx.xxSE4-94  | 100.00 - 111.99 | 174  | 82  | 89  | BTSI 094    | 94          |
| TBTA-Txx.xxSE4-106 | 112.00 - 123.99 | 204  | 102 | 101 | BTSI 106    | 106         |
| TBTA-Txx.xxSE4-118 | 124.00 - 135.99 | 204  | 102 | 113 | BTSI 118    | 118         |
| TBTA-Txx.xxSE4-130 | 136.00 - 147.99 | 204  | 102 | 125 | BTSI 130    | 130         |
| TBTA-Txx.xxSE4-142 | 148.00 - 159.99 | 229  | 122 | 137 | BTSI 142    | 142         |
| TBTA-Txx.xxSE4-154 | 160.00 - 171.99 | 229  | 122 | 149 | BTSI 154    | 154         |
| TBTA-Txx.xxSE4-166 | 172.00 - 183.99 | 229  | 122 | 161 | BTSI 166    | 166         |
| TBTA-Txx.xxSE4-178 | 184.00 - 195.99 | 249  | 142 | 173 | BTSI 178    | 178         |
| TBTA-Txx.xxSE4-190 | 196.00 - 207.99 | 249  | 142 | 185 | BTSI 190    | 190         |
| TBTA-Txx.xxSE4-202 | 208.00 - 219.99 | 249  | 142 | 197 | BTSI 202    | 202         |
| TBTA-Txx.xxSE4-214 | 220.00 - 231.99 | 284  | 162 | 208 | BTSI 214    | 214         |
| TBTA-Txx.xxSE4-226 | 232.00 - 243.99 | 284  | 162 | 220 | BTSI 226    | 226         |
| TBTA-Txx.xxSE4-238 | 244.00 - 255.99 | 284  | 162 | 232 | BTSI 238    | 238         |
| TBTA-Txx.xxSE4-250 | 256.00 - 267.99 | 304  | 182 | 244 | BTSI 250    | 250         |
| TBTA-Txx.xxSE4-262 | 268.00 - 279.99 | 304  | 182 | 256 | BTSI 262    | 262         |
| TBTA-Txx.xxSE4-274 | 280.00 - 291.99 | 304  | 182 | 268 | BTSI 274    | 274         |
| TBTA-Txx.xxSE4-286 | 292.00 - 303.99 | 324  | 202 | 280 | BTSI 286    | 286         |
| TBTA-Txx.xxSE4-298 | 304.00 - 315.99 | 324  | 202 | 292 | BTSI 298    | 298         |
| TBTA-Txx.xxSE4-310 | 316.00 - 328.00 | 324  | 202 | 304 | BTSI 310    | 310         |

**EINROHR-SYSTEM  
EINGÄNGIGES INNENGEWINDE**



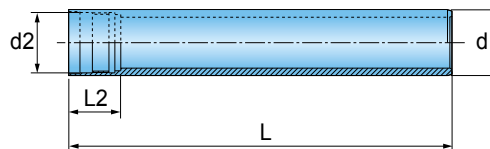
| Artikel-Nr.         | D<br>(Bereich)  | Maße |     |     | Bohrrohr    |             |
|---------------------|-----------------|------|-----|-----|-------------|-------------|
|                     |                 | L    | L2  | d   | Bezeichnung | Durchmesser |
| TBTA-Txxx.xxSI1-94  | 100.00 – 110.99 | 139  | 71  | 90  | BTSE 094    | 94          |
| TBTA-Txxx.xxSI1-106 | 111.00 – 122.99 | 149  | 71  | 102 | BTSE 106    | 106         |
| TBTA-Txxx.xxSI1-118 | 123.00 – 123.99 | 149  | 71  | 114 | BTSE 118    | 118         |
| TBTA-Txxx.xxSI1-118 | 124.00 – 134.99 | 149  | 71  | 114 | BTSE 118    | 118         |
| TBTA-Txxx.xxSI1-130 | 135.00 – 148.99 | 149  | 71  | 126 | BTSE 130    | 130         |
| TBTA-Txxx.xxSI1-142 | 149.00 – 161.99 | 149  | 71  | 139 | BTSE 142    | 142         |
| TBTA-Txxx.xxSI1-154 | 162.00 – 173.99 | 169  | 86  | 151 | BTSE 154    | 154         |
| TBTA-Txxx.xxSI1-166 | 174.00 – 185.99 | 169  | 86  | 163 | BTSE 166    | 166         |
| TBTA-Txxx.xxSI1-178 | 186.00 – 195.99 | 169  | 86  | 175 | BTSE 178    | 178         |
| TBTA-Txxx.xxSI1-178 | 196.00 – 197.99 | 169  | 86  | 175 | BTSE 178    | 178         |
| TBTA-Txxx.xxSI1-190 | 198.00 – 209.99 | 169  | 86  | 187 | BTSE 190    | 190         |
| TBTA-Txxx.xxSI1-202 | 210.00 – 221.99 | 189  | 86  | 199 | BTSE 202    | 202         |
| TBTA-Txxx.xxSI1-214 | 222.00 – 233.99 | 189  | 86  | 211 | BTSE 214    | 214         |
| TBTA-Txxx.xxSI1-226 | 234.00 – 245.99 | 189  | 86  | 223 | BTSE 226    | 226         |
| TBTA-Txxx.xxSI1-238 | 246.00 – 257.99 | 189  | 86  | 235 | BTSE 238    | 238         |
| TBTA-Txxx.xxSI1-250 | 258.00 – 266.99 | 209  | 121 | 245 | BTSE 250    | 250         |
| TBTA-Txxx.xxSI1-262 | 267.00 – 281.99 | 209  | 121 | 259 | BTSE 262    | 262         |
| TBTA-Txxx.xxSI1-274 | 282.00 – 293.99 | 209  | 121 | 271 | BTSE 274    | 274         |
| TBTA-Txxx.xxSI1-286 | 294.00 – 305.99 | 209  | 121 | 283 | BTSE 286    | 286         |

**AUFBAU DER TBTA-T SERIE**



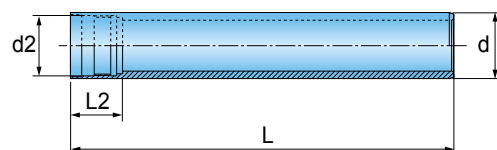
| Bezeichnung        |                  | Durchmesser (mm)   |                    |                    |                    |             |
|--------------------|------------------|--------------------|--------------------|--------------------|--------------------|-------------|
|                    |                  | 100,00-123,99      | 124,00-135,99      | 136,00-195,99      | 196,00-207,99      | 208,00-328  |
| Kassette           | Außenkassette    | PERC402-32         | PERC402-43         | PERC402-43         | PERC402-63         | PERC402-63  |
|                    | Verstellschraube | AS0005-10          | AS0005-15          | AS0005-15          | AS0006-15          | AS0006-15   |
|                    | Schraubendreher  | SW2.5              | SW2.5              | SW2.5              | SW3                | SW3         |
|                    | Spannschraube    | LS1805RH           | LS1806RH           | LS1806RH           | LS1806RH           | LS1806RH    |
|                    | Schraubendreher  | SW3                | SW4                | SW4                | SW4                | SW4         |
|                    | Innenkassette    | CENC402-32L        | CENC402-43L        | CENC402-43L        | CENC402-43L        | CENC402-43L |
|                    | Spannschraube    | CSTA5              | LS1206             | LS1206             | LS1206             | LS1206      |
|                    | Schraubendreher  | T15                | SW3                | SW3                | SW3                | SW3         |
|                    |                  |                    |                    |                    |                    |             |
| Wendeschneidplatte | Außenkassette    | TPMX170408R        | TPMX240512R        | TPMX240512R        | TPMX280716R        | TPMX280716R |
|                    | Spannschraube    | CSTB3.5D           | CSTB4M             | CSTB4M             | CSTB5              | CSTB5       |
|                    | Schraubendreher  | T9                 | T15                | T15                | T20                | T20         |
|                    | Innenkassette    | TPMX170408L        | TPMX240512L        | TPMX240512L        | TPMX240512L        | TPMX240512L |
|                    | Spannschraube    | CSTB3.5D           | CSTB4M             | CSTB4M             | CSTB4M             | CSTB4M      |
|                    | Schraubendreher  | T9                 | T15                | T15                | T15                | T15         |
| Führungsleisten    | Führungsleiste   | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP18-040-300DC | PAD-GP22    |
|                    | Spannschraube    | LS1206S            | LS1206S            | LS1206S            | LS1206S            | LS1206S     |
|                    | Schraubendreher  | SW3                | SW3                | SW3                | SW3                | SW3         |
|                    | Schutzleiste     | PAD-P18            | PAD-P18            | PAD-P18            | PAD-P18            | PAD-P22     |
|                    | Spannschraube    | LS1206S            | LS1206S            | LS1206S            | LS1206S            | LS1206S     |
|                    | Schraubendreher  | SW3                | SW3                | SW3                | SW3                | SW3         |
|                    | Nebenleiste      | PAD-S14            | PAD-S14            | PAD-S14            | PAD-S14            | PAD-S14     |
|                    | Spannschraube    | CSTA5S             | CSTA5S             | CSTA5S             | CSTA5S             | CSTA5S      |
|                    | Schraubendreher  | T15                | T15                | T15                | T15                | T15         |

**EINROHR-SYSTEM  
ZWEI- ODER VIERGÄNGIGES INNENGEWINDE**



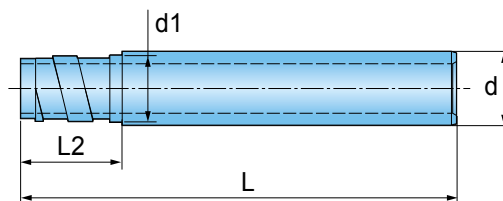
| Artikel-Nr. | D<br>(Bereich) | Maße |      |      |
|-------------|----------------|------|------|------|
|             |                | d    | d2   | L2   |
| BTSI011 *   | 12,60 – 13,60  | 11,0 | 9,6  | 22   |
| BTSI012 *   | 13,61 – 14,60  | 12,0 | 10,6 | 22   |
| BTSI013 *   | 14,61 – 15,59  | 13,0 | 11,6 | 22   |
| BTSI014     | 15,60 – 16,70  | 14,0 | 12,6 | 21   |
| BTSI015     | 16,71 – 17,70  | 15,0 | 13,6 | 21   |
| BTSI016     | 17,71 – 18,90  | 16,0 | 14,5 | 22   |
| BTSI017     | 18,91 – 20,00  | 17,0 | 15,5 | 22   |
| BTSI018     | 20,01 – 21,80  | 18,0 | 16,0 | 27,5 |
| BTSI020     | 21,81 – 24,10  | 20,0 | 18,0 | 30   |
| BTSI022     | 24,11 – 26,40  | 22,0 | 19,5 | 30   |
| BTSI024     | 26,41 – 28,70  | 24,0 | 21,0 | 30   |
| BTSI026     | 28,71 – 31,00  | 26,0 | 23,5 | 33   |
| BTSI028     | 31,01 – 33,30  | 28,0 | 25,5 | 33   |
| BTSI030     | 33,31 – 36,20  | 30,0 | 28,0 | 33   |
| BTSI033     | 36,21 – 39,60  | 33,0 | 30,0 | 40   |
| BTSI036     | 39,61 – 43,00  | 36,0 | 33,0 | 40   |
| BTSI039     | 43,01 – 47,00  | 39,0 | 36,0 | 40   |
| BTSI043     | 47,01 – 51,70  | 43,0 | 39,0 | 40   |
| BTSI047     | 51,71 – 56,20  | 47,0 | 43,0 | 44   |

\* Zweigängiges Innengewinde.  
Bitte bei Bestellung Gesamtlänge (L) angeben.

**EINROHR-SYSTEM  
VIERGÄNGIGES INNENGEWINDE**


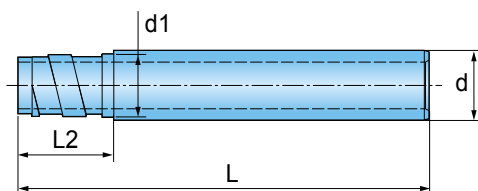
| Artikel-Nr. | D<br>(Bereich)  | Maße  |     |     |
|-------------|-----------------|-------|-----|-----|
|             |                 | d     | d2  | L2  |
| BTSI051     | 56,21 – 60,60   | 51,0  | 47  | 44  |
| BTSI056A    | 60,61 – 65,00   | 56,0  | 51  | 44  |
| BTSI056B    | 65,00 – 66,99   | 56,0  | 52  | 75  |
| BTSI062     | 67,00 – 72,99   | 62,0  | 58  | 75  |
| BTSI068     | 73,00 – 79,99   | 68,0  | 63  | 75  |
| BTSI075     | 80,00 – 86,99   | 75,0  | 70  | 97  |
| BTSI082     | 87,00 – 99,99   | 82,0  | 77  | 97  |
| BTSI094     | 100,00 – 111,99 | 94,0  | 89  | 97  |
| BTSI106     | 112,00 – 123,99 | 106,0 | 101 | 118 |
| BTSI118     | 124,00 – 135,99 | 118,0 | 113 | 118 |
| BTSI130     | 136,00 – 147,99 | 130,0 | 125 | 118 |
| BTSI142     | 148,00 – 159,99 | 142,0 | 137 | 139 |
| BTSI154     | 160,00 – 171,99 | 154,0 | 149 | 139 |
| BTSI166     | 172,00 – 183,99 | 166,0 | 161 | 139 |
| BTSI178     | 184,00 – 195,99 | 178,0 | 173 | 144 |
| BTSI190     | 196,00 – 207,99 | 190,0 | 185 | 144 |
| BTSI202     | 208,00 – 219,99 | 202,0 | 197 | 144 |
| BTSI214     | 220,00 – 231,99 | 214,0 | 208 | 164 |
| BTSI226     | 232,00 – 243,99 | 226,0 | 220 | 164 |
| BTSI238     | 244,00 – 255,99 | 238,0 | 232 | 164 |
| BTSI250     | 256,00 – 269,99 | 250,0 | 244 | 184 |
| BTSI262     | 268,00 – 279,99 | 262,0 | 256 | 184 |
| BTSI274     | 280,00 – 291,99 | 274,0 | 268 | 184 |

Bitte bei Bestellung Gesamtlänge (L) angeben.

**EINROHR-SYSTEM  
EINGÄNGIGES AUSSERGEWINDE**


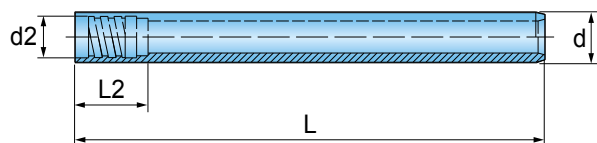
| Artikel-Nr. | D<br>(Bereich) | Maße |      |    |
|-------------|----------------|------|------|----|
|             |                | d    | d2   | L2 |
| BTSE012A    | 14,50 - 15,00  | 12,0 | 11,5 | 23 |
| BTSE012B    | 15,01 - 15,50  | 12,0 | 11,8 | 23 |
| BTSE013A    | 15,51 - 16,00  | 13,0 | 12,4 | 23 |
| BTSE013B    | 16,01 - 16,50  | 13,0 | 12,7 | 23 |
| BTSE014A    | 16,51 - 17,25  | 14,0 | 13,4 | 23 |
| BTSE014B    | 17,26 - 18,00  | 14,0 | 13,7 | 23 |
| BTSE015     | 18,01 - 19,00  | 15,0 | 14,4 | 23 |
| BTSE016.5   | 19,01 - 19,99  | 16,5 | 15,4 | 23 |
| BTSE018     | 20,00 - 21,99  | 18,0 | 16,5 | 26 |
| BTSE020     | 22,00 - 24,99  | 20,0 | 19,0 | 26 |
| BTSE022     | 25,00 - 26,99  | 22,0 | 20,0 | 26 |
| BTSE024     | 27,00 - 29,99  | 24,0 | 22,0 | 26 |
| BTSE026     | 30,00 - 31,99  | 26,0 | 24,0 | 26 |
| BTSE028     | 32,00 - 33,99  | 28,0 | 26,0 | 26 |
| BTSE030     | 34,00 - 36,99  | 30,0 | 27,0 | 41 |
| BTSE033     | 37,00 - 39,99  | 33,0 | 30,0 | 41 |
| BTSE036     | 40,00 - 43,99  | 36,0 | 33,0 | 41 |
| BTSE039     | 44,00 - 46,99  | 39,0 | 37,0 | 41 |
| BTSE043     | 47,00 - 51,99  | 43,0 | 41,0 | 41 |

Bitte bei Bestellung Gesamtlänge (L) angeben.

**EINROHR-SYSTEM  
EINGÄNGIGES AUSSENGEWINDE**


| Artikel-Nr. | D<br>(Bereich)  | Maße  |     |    |     |
|-------------|-----------------|-------|-----|----|-----|
|             |                 | d     | d1  | d2 | L2  |
| BTSE047     | 52,00 - 56,99   | 47,0  | 44  | -  | 41  |
| BTSE051     | 57,00 - 60,99   | 51,0  | 49  | -  | 41  |
| BTSE056     | 61,00 - 67,99   | 56,0  | 53  | -  | 41  |
| BTSE062     | 68,00 - 74,99   | 62,0  | 59  | -  | 41  |
| BTSE068     | 75,00 - 80,99   | 68,0  | 65  | -  | 71  |
| BTSE075     | 81,00 - 90,99   | 75,0  | 71  | -  | 71  |
| BTSE082     | 91,00 - 98,99   | 82,0  | 79  | -  | 71  |
| BTSE094     | 99,00 - 110,99  | 94,0  | 90  | -  | 71  |
| BTSE106     | 111,00 - 122,99 | 106,0 | 102 | -  | 71  |
| BTSE118     | 123,00 - 134,99 | 118,0 | 114 | -  | 71  |
| BTSE130     | 135,00 - 148,99 | 130,0 | 126 | -  | 71  |
| BTSE142     | 149,00 - 161,99 | 142,0 | 139 | -  | 71  |
| BTSE154     | 162,00 - 173,99 | 154,0 | 151 | -  | 86  |
| BTSE166     | 174,00 - 185,99 | 166,0 | 163 | -  | 86  |
| BTSE178     | 186,00 - 197,99 | 178,0 | 175 | -  | 86  |
| BTSE190     | 198,00 - 209,99 | 190,0 | 187 | -  | 86  |
| BTSE202     | 210,00 - 221,99 | 202,0 | 199 | -  | 86  |
| BTSE214     | 222,00 - 233,99 | 214,0 | 211 | -  | 86  |
| BTSE226     | 234,00 - 245,99 | 226,0 | 223 | -  | 86  |
| BTSE238     | 246,00 - 257,99 | 238,0 | 235 | -  | 86  |
| BTSE250     | 258,00 - 269,99 | 250,0 | 247 | -  | 121 |
| BTSE262     | 270,00 - 281,99 | 262,0 | 259 | -  | 121 |
| BTSE274     | 282,00 - 293,99 | 274,0 | 271 | -  | 121 |

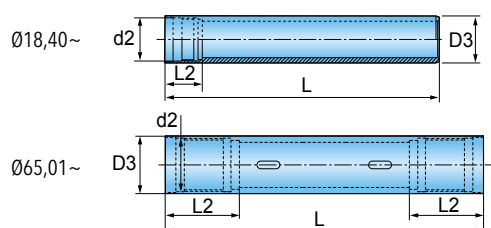
Bitte bei Bestellung Gesamtlänge (L) angeben.

**EINROHR-SYSTEM  
EINGÄNGIGES INNENGEWINDE**


| Artikel-Nr.    | D<br>(Bereich) | Maße |    |      |    |
|----------------|----------------|------|----|------|----|
|                |                | d    | d1 | d2   | L2 |
| <b>BTS0071</b> | 8,00 – 8,99    | 7,1  | -  | 6,0  | 16 |
| <b>BTS0083</b> | 9,00 – 9,99    | 8,3  | -  | 7,2  | 16 |
| <b>BTS0090</b> | 10,00 – 10,99  | 9,0  | -  | 7,6  | 16 |
| <b>BTS0100</b> | 11,00 – 11,99  | 10,0 | -  | 8,6  | 16 |
| <b>BTS0110</b> | 12,00 – 13,49  | 11,0 | -  | 9,1  | 16 |
| <b>BTS0120</b> | 13,50 – 14,79  | 12,0 | -  | 10,8 | 16 |

Bitte bei Bestellung Gesamtlänge (L) angeben.

# **DOPPELROHR-SYSTEM AUSSENROHR**

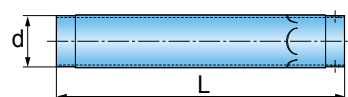


| Artikel-Nr. | D<br>(Bereich)  | Maße  |      |     |
|-------------|-----------------|-------|------|-----|
|             |                 | D3    | d2   | L2  |
| BTDO021.5   | 21,81 - 24,10   | 21,5  | 19,5 | 30  |
| BTDO023.5   | 24,11 - 26,40   | 23,5  | 21   | 30  |
| BTDO026     | 26,41 - 28,70   | 26,0  | 23,5 | 33  |
| BTDO028     | 28,71 - 31,00   | 28,0  | 25,5 | 33  |
| BTDO030.5   | 31,01 - 33,30   | 30,5  | 28   | 33  |
| BTDO033     | 33,31 - 36,20   | 33,0  | 30   | 40  |
| BTDO035.5   | 36,21 - 39,60   | 35,5  | 33   | 40  |
| BTDO039     | 39,61 - 43,00   | 39,0  | 36   | 40  |
| BTDO042.5   | 43,01 - 47,00   | 42,5  | 39   | 40  |
| BTDO046.5   | 47,01 - 51,70   | 46,5  | 43   | 44  |
| BTDO051     | 51,71 - 56,20   | 51,0  | 47   | 44  |
| BTDO055.5   | 56,21 - 65,00   | 55,5  | 51   | 44  |
| BTDO056     | 65,01 - 69,99   | 56,0  | 52   | 75  |
| BTDO062     | 70,00 - 72,99   | 62,0  | 58   | 75  |
| BTDO068     | 73,00 - 79,99   | 68,0  | 63   | 75  |
| BTDO075     | 80,00 - 86,99   | 75,0  | 70   | 97  |
| BTDO082     | 87,00 - 99,99   | 82,0  | 77   | 97  |
| BTDO094     | 100,00 - 111,99 | 94,0  | 89   | 97  |
| BTDO106     | 112,00 - 123,99 | 106,0 | 101  | 118 |
| BTDO118     | 124,00 - 135,99 | 118,0 | 113  | 118 |
| BTDO130     | 136,00 - 147,99 | 130,0 | 125  | 118 |
| BTDO142     | 148,00 - 159,99 | 142,0 | 137  | 139 |
| BTDO154     | 160,00 - 171,99 | 154,0 | 149  | 139 |
| BTDO166     | 172,00 - 183,99 | 166,0 | 161  | 139 |

Bitte bei Bestellung Gesamtlänge (L) angeben.

- Für Durchmesserbereich 18,40 - 65,00 (**BTDO 055.5**) sollte das Innenrohr 30 mm länger als das Außenrohr bestellt werden.
- Für Durchmesserbereich 65,01 - 123,99 (**BTDO 056 - BTDO 106**) sollte das Innenrohr 190 mm länger als das Außenrohr bestellt werden.
- Für Durchmesserbereich 124,00 - 183,99 (**BTDO 118 - BTDO 156**) sollte das Innenrohr 220 mm länger als das Außenrohr bestellt werden.

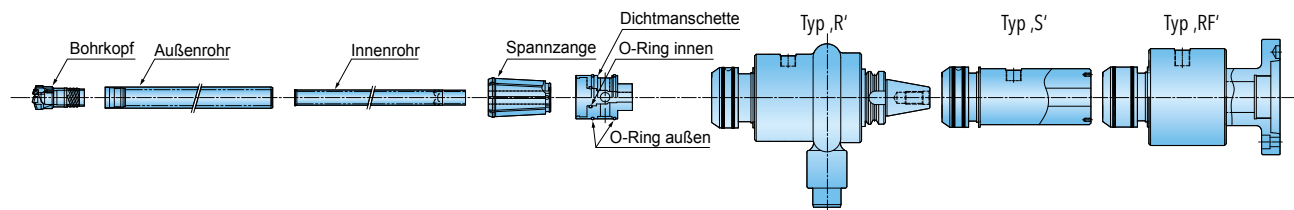
**DOPPELROHR-SYSTEM  
INNENROHR**



| Artikel-Nr. | Maße |    |
|-------------|------|----|
|             | d    | D5 |
| BTDI012     | 10   | 12 |
| BTDI014     | 12   | 14 |
| BTDI015     | 13   | 15 |
| BTDI016     | 14   | 16 |
| BTDI018     | 16   | 18 |
| BTDI020     | 18   | 20 |
| BTDI022     | 20   | 22 |
| BTDI024     | 22   | 24 |
| BTDI026     | 24   | 26 |
| BTDI029     | 27   | 29 |
| BTDI032     | 30   | 32 |
| BTDI035     | 32   | 35 |
| BTDI039     | 36   | 39 |
| BTDI043A    | 40   | 43 |
| BTDI043B    | 40   | -  |
| BTDI048     | 44   | -  |
| BTDI053     | 48   | -  |
| BTDI059     | 54   | -  |
| BTDI066     | 60   | -  |
| BTDI078     | 70   | -  |
| BTDI090     | 80   | -  |
| BTDI092     | 80   | -  |
| BTDI104     | 95   | -  |
| BTDI116     | 100  | -  |
| BTDI128     | 120  | -  |
| BTDI138     | 130  | -  |

Bitte bei Bestellung Gesamtlänge (L) angeben.

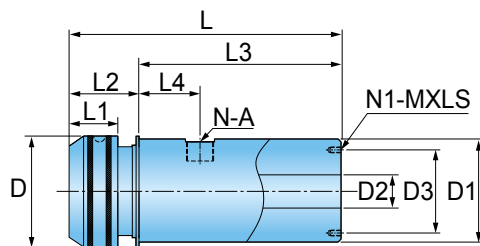
## MONTAGE DES DOPPELROHR-SYSTEMS



| Artikel-Nr.<br>BTDO | Artikel-Nr.<br>BTDI | D<br>(Bereich) | Spannzange     | Dichthülse              | O-Ring außen | O-Ring innen | Adapter       |
|---------------------|---------------------|----------------|----------------|-------------------------|--------------|--------------|---------------|
| BTDO018             | BTDI012             | 18,40 – 19,20  | COLLET 4-18*   | SEALING SLEEVE 4R-18*   | OOR 25,24    | IOR18        | DTC-3S/3R/3RF |
| BTDO018             | BTDI012             | 19,21 – 20,00  | COLLET 4-18*   | SEALING SLEEVE 4R-18*   |              | IOR18        |               |
| BTDO019.5           | BTDI014             | 20,01 – 20,90  | COLLET 4-19.5* | SEALING SLEEVE 4R-19.5* |              | IOR19.5      |               |
| BTDO019.5           | BTDI014             | 20,91 – 21,80  | COLLET 4-19.5* | SEALING SLEEVE 4R-19.5* |              | IOR19.5      |               |
| BTDO021.5           | BTDI015             | 21,81 – 22,90  | COLLET 4-21.5* | SEALING SLEEVE 4R-21.5* |              | IOR21.5      |               |
| BTDO021.5           | BTDI015             | 22,91 – 24,10  | COLLET 4-21.5* | SEALING SLEEVE 4R-21.5* |              | IOR21.5      |               |
| BTDO023.5           | BTDI016             | 24,11 – 25,20  | COLLET 4-23.5* | SEALING SLEEVE 4R-23.5* |              | IOR23.5      |               |
| BTDO023.5           | BTDI016             | 25,21 – 26,40  | COLLET 4-23.5* | SEALING SLEEVE 4R-23.5* |              | IOR23.5      |               |
| BTDO026             | BTDI018             | 26,41 – 27,50  | COLLET 4-26*   | SEALING SLEEVE 4R-26*   |              | IOR26        |               |
| BTDO026             | BTDI018             | 27,51 – 28,70  | COLLET 4-26*   | SEALING SLEEVE 4R-26*   |              | IOR26        |               |
| BTDO028             | BTDI020             | 28,71 – 29,80  | COLLET 4-28*   | SEALING SLEEVE 4R-28*   |              | IOR28        |               |
| BTDO028             | BTDI020             | 29,81 – 31,00  | COLLET 4-28*   | SEALING SLEEVE 4R-28*   |              | IOR28        |               |
| BTDO030.5           | BTDI022             | 31,01 – 32,10  | COLLET 4-30.5* | SEALING SLEEVE 4R-30.5* |              | IOR30.5      |               |
| BTDO030.5           | BTDI022             | 32,11 – 33,30  | COLLET 4-30.5* | SEALING SLEEVE 4R-30.5* |              | IOR30.5      |               |
| BTDO033             | BTDI024             | 33,31 – 34,80  | COLLET 4-33*   | SEALING SLEEVE 4R-33*   | OOR 65       | IOR33        | DTC-4S/4R/4RF |
| BTDO033             | BTDI024             | 34,81 – 36,20  | COLLET 4-33*   | SEALING SLEEVE 4R-33*   |              | IOR33        |               |
| BTDO035.5           | BTDI026             | 36,21 – 37,30  | COLLET 4-35.5  | SEALING SLEEVE 4R-35.5  |              | IOR35.5      |               |
| BTDO035.5           | BTDI026             | 37,31 – 38,40  | COLLET 4-35.5  | SEALING SLEEVE 4R-35.5  |              | IOR35.5      |               |
| BTDO035.5           | BTDI026             | 38,41 – 39,60  | COLLET 4-35.5  | SEALING SLEEVE 4R-35.5  |              | IOR35.5      |               |
| BTDO039             | BTDI029             | 39,61 – 40,60  | COLLET 4-39    | SEALING SLEEVE 4R-39    |              | IOR39        |               |
| BTDO039             | BTDI029             | 40,61 – 41,80  | COLLET 4-39    | SEALING SLEEVE 4R-39    |              | IOR39        |               |
| BTDO039             | BTDI029             | 41,81 – 43,00  | COLLET 4-39    | SEALING SLEEVE 4R-39    |              | IOR39        |               |
| BTDO042.5           | BTDI032             | 43,01 – 44,30  | COLLET 4-42.5  | SEALING SLEEVE 4R-42.5  |              | IOR42.5      |               |
| BTDO042.5           | BTDI032             | 44,31 – 45,60  | COLLET 4-42.5  | SEALING SLEEVE 4R-42.5  |              | IOR42.5      |               |
| BTDO042.5           | BTDI032             | 45,61 – 47,00  | COLLET 4-42.5  | SEALING SLEEVE 4R-42.5  |              | IOR42.5      |               |
| BTDO046.5           | BTDI035             | 47,01 – 48,50  | COLLET 4-46.5  | SEALING SLEEVE 4R-46.5  |              | IOR46.5      |               |
| BTDO046.5           | BTDI035             | 48,51 – 50,10  | COLLET 4-46.5  | SEALING SLEEVE 4R-46.5  |              | IOR46.5      |               |
| BTDO046.5           | BTDI035             | 50,11 – 51,70  | COLLET 4-46.5  | SEALING SLEEVE 4R-46.5  |              | IOR46.5      |               |
| BTDO051             | BTDI039             | 51,71 – 53,20  | COLLET 4-51    | SEALING SLEEVE 4R-51    |              | IOR51        |               |
| BTDO051             | BTDI039             | 53,21 – 54,70  | COLLET 4-51    | SEALING SLEEVE 4R-51    |              | IOR51        |               |
| BTDO051             | BTDI039             | 54,71 – 56,20  | COLLET 4-51    | SEALING SLEEVE 4R-51    |              | IOR51        |               |
| BTDO055.5           | BTDI043A            | 56,21 – 58,40  | COLLET 4-55.5  | SEALING SLEEVE 4R-55.5  |              | IOR55.5      |               |
| BTDO055.5           | BTDI043A            | 58,41 – 60,60  | COLLET 4-55.5  | SEALING SLEEVE 4R-55.5  |              | IOR55.5      |               |
| BTDO055.5           | BTDI043A            | 60,61 – 62,80  | COLLET 4-55.5  | SEALING SLEEVE 4R-55.5  |              | IOR55.5      |               |
| BTDO055.5           | BTDI043A            | 62,81 – 65,00  | COLLET 4-55.5  | SEALING SLEEVE 4R-55.5  |              | IOR55.5      |               |

\*Für DTC-3S/R/RF ist die Bezeichnung der Spannzange & Dichthülse \*COLLET 3- und SEALING SLEEVE 3-, Das Innenrohr sollte länger als das Außenrohr sein.

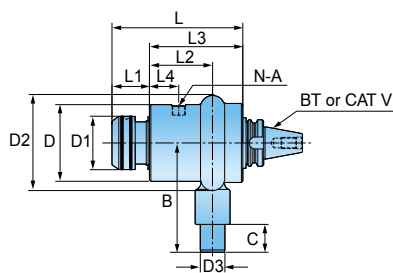
## S-TYP ADAPTER



| Artikel-Nr. | D<br>(Bereich) | D   | D1  | D2 | D3  | L   | L1   | L2  | L3  | L4  | N-A      | N1-MXL5 |
|-------------|----------------|-----|-----|----|-----|-----|------|-----|-----|-----|----------|---------|
| DTC3S       | 18,4 - 26,4    | 62  | 63  | 18 | 50  | 240 | 28,5 | 40  | 200 | 65  | 2-PT1/2" | 4-M6x11 |
| DTC4S       | 18,4 - 65,0    | 112 | 100 | 40 | 80  | 315 | 50   | 65  | 250 | 80  | 2-PT3/4" | 4-M8x15 |
| DTC5S       | 65,0 - 123,9   | 164 | 140 | 81 | 120 | 415 | 47   | 115 | 300 | 130 | 2-PT1"   | 6-M8x20 |



## R-TYP ADAPTER



| Artikel-Nr. | D<br>(Bereich) | D   | D1  | D2  | D3  | B     | C   | L   | L1 | L2  | L3  | L4  | N-A        |
|-------------|----------------|-----|-----|-----|-----|-------|-----|-----|----|-----|-----|-----|------------|
| DTC3R       | 18,4 – 26,4    | 110 | 74  | 150 | 40  | 150   | 50  | 228 | 39 | 130 | 189 | 65  | 2-PT3/4"   |
| DTC4R       | 18,4 – 65,0    | 165 | 115 | 206 | 53  | 186,5 | 60  | 300 | 72 | 152 | 228 | 75  | 2-PT1"     |
| DTC5R       | 65,0 – 123,9   | 225 | 164 | 312 | 100 | 310   | 100 | 382 | 62 | 201 | 320 | 95  | 2-PT1-1/4" |
| DTC6R       | 124,0 – 183,9  | 310 | 214 | 410 | 140 | 300   | 100 | 427 | 62 | 228 | 365 | 103 | 3-PT1-1/4" |

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