

## Presspassung

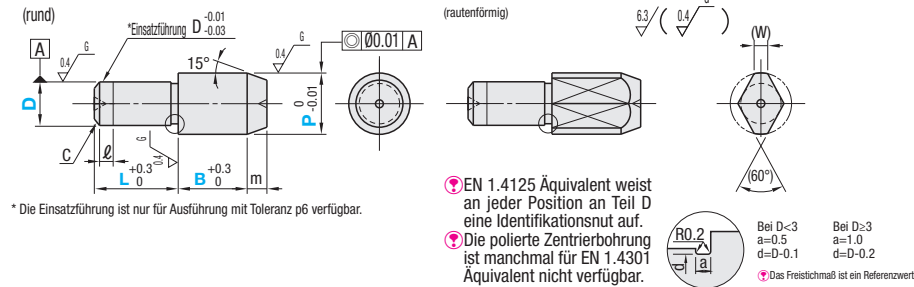


■ **Merkmale:** Kegelförmiger Kopf, Standardausführung. Presspassung. Kostengünstig, und es gibt eine Zielzahl an Auswahlmöglichkeiten. Lieferung am selben Tag möglich.



| Werkstoff<br>Nr. | Werkstoff            | Oberflächen-<br>behandlung | Härte                                                      | P frei wählbar |                                       | P konfigurierbar |                                       | P, L, B konfigurierbar |                                       |
|------------------|----------------------|----------------------------|------------------------------------------------------------|----------------|---------------------------------------|------------------|---------------------------------------|------------------------|---------------------------------------|
|                  |                      |                            |                                                            | Ausführung     | Toleranz D und Form                   | Ausführung       | Toleranz D und Form                   | Ausführung             | Toleranz D und Form                   |
| ①                | EN 1.2510 Äquivalent | -                          | Härtebehandlung: 60-63HRC                                  | JP             | <Rund><br>BB (m6)<br>BPB (p6)         | JP               | <Rund><br>BA (m6)<br>BPA (p6)         | FP                     | <Rund><br>GF<br>GFP                   |
| ②                | EN 1.2510 Äquivalent | Hartverchromt              | Härtebehandlung: 50-55HRC<br>Beschichtungsstärke: 750HV... | GJP            |                                       | GJP              |                                       | GFP                    |                                       |
| ③                | EN 1.2510 Äquivalent | -                          | -                                                          | BJP            |                                       | BJP              |                                       | BFP                    |                                       |
| ④                | EN 1.4301 Äquivalent | -                          | -                                                          | SJP            | <Rautenförmig><br>DB (m6)<br>DPB (p6) | SJP              | <Rautenförmig><br>DB (m6)<br>BPD (p6) | SFP                    | <Rautenförmig><br>DB (m6)<br>BPD (p6) |
| ⑤                | EN 1.4301 Äquivalent | Hartverchromt              | Oberflächenhärte: 750HV...                                 | HJP            |                                       | HJP (nur rund)   |                                       | HFP                    |                                       |
| ⑥                | EN 1.4125 Äquivalent | -                          | Härtebehandlung: 50-55HRC                                  | CJP            |                                       | CJP              |                                       | CFP                    |                                       |

\*Für P bei auswählbarer Ausführung gilt EN 1.4301 Äquivalent entsprechend.



■ P frei wählbar

| Teilenummer                           |                                                                                                   |    |                              | P<br>Auswahl     | L  | B  | C   | m   | ℓ  | (W) |     |   |
|---------------------------------------|---------------------------------------------------------------------------------------------------|----|------------------------------|------------------|----|----|-----|-----|----|-----|-----|---|
| Ausführung                            | Toleranz D und Form                                                                               | D  | Maß d Toleranz<br>m6      p6 |                  |    |    |     |     |    |     |     |   |
| JP<br>GJP<br>BJP<br>SJP<br>HJP<br>CJP | <Rund><br>BB (m6)<br>BPB (p6)<br><br><Rautenförmig><br>DB (m6)<br>DPB (p6)<br>♥ Verfügbar für D≥2 | 1  |                              | 2                | 3  |    | 0,1 | 0,5 | 0  | -   |     |   |
|                                       |                                                                                                   | 2  | +0.008                       | +0.012           | 3  | 4  |     |     |    | 1   | 1,2 |   |
|                                       |                                                                                                   | 3  | +0.002                       | +0.006           | 4  | 5  | 6   | 5   |    | 2   | 1,5 |   |
|                                       |                                                                                                   | 4  |                              |                  | 5  | 6  | 8   | 5   | 6  | 1   | 1,8 |   |
|                                       |                                                                                                   | 5  | +0.012                       | +0.020           | 6  | 8  | 10  | 10  | 8  | 3   | 2,2 |   |
|                                       |                                                                                                   | 6  | +0.004                       | +0.012           | 8  | 10 | 12  | 12  | 13 | 4   | 3   |   |
|                                       |                                                                                                   | 8  | +0.015                       | +0.024           | 10 | 12 | 13  | 12  | 13 | 2   | 3,5 |   |
|                                       |                                                                                                   | 10 | +0.006                       | +0.015           | 12 | 13 | 15  | 13  | 15 | 4   | 4   |   |
|                                       |                                                                                                   | 12 |                              |                  | 13 | 15 | 16  | 15  | 16 |     | 5   |   |
|                                       |                                                                                                   | 13 | +0.018                       | +0.029           | 15 | 16 | 20  | 22  |    |     | 5,5 |   |
|                                       |                                                                                                   | 16 | +0.007                       | +0.018           | 20 | 25 | 30  | 30  | 15 | 3   | 5   | 7 |
|                                       |                                                                                                   | 20 | +0.021<br>+0.008             | +0.035<br>+0.022 | 25 | 30 | 30  | 15  | 3  | 5   | 2   | 9 |

■ P konfigurierbar

| Teilenummer                           |                                                              |    |                                            | P<br>0.01mm-Schritte | L           | B  | C   | m   | ℓ | (W) |     |
|---------------------------------------|--------------------------------------------------------------|----|--------------------------------------------|----------------------|-------------|----|-----|-----|---|-----|-----|
| Ausführung                            | Toleranz D und Form                                          | D  | Maß d Toleranz<br>m6                    p6 |                      |             |    |     |     |   |     |     |
| JP<br>GJP<br>BJP<br>SJP<br>HJP<br>CJP | <Rund><br>BA (m6)<br>BPA (p6)                                | 1  |                                            | 1.20-2.50            | 3           |    | 0.1 | 0.5 | 0 | -   |     |
|                                       |                                                              | 2  | +0.008                                     | +0.012               | 2.50-4.00   | 4  | 3   |     |   | 1   | 1.2 |
|                                       |                                                              | 3  | +0.002                                     | +0.006               | 3.50-6.00   | 5  | 5   | 0.5 |   | 2   | 1.5 |
|                                       |                                                              | 4  |                                            |                      | 4.50-7.00   |    |     |     |   | 1.8 |     |
|                                       |                                                              | 5  | +0.012                                     | +0.020               | 5.50-8.00   |    | 6   | 1   | 3 | 2.2 |     |
|                                       |                                                              | 6  | +0.004                                     | +0.012               | 6.50-10.00  | 10 |     |     |   | 3   |     |
|                                       | <Rautenförmig><br>BD (m6)<br>BPD (p6)<br>🔧 Verfügbar für D≥2 | 8  | +0.015                                     | +0.024               | 9.00-13.00  |    | 8   | 1.5 |   | 1   | 3.5 |
|                                       |                                                              | 10 | +0.006                                     | +0.015               | 11.00-15.00 | 15 |     |     |   |     | 4   |
|                                       |                                                              | 12 |                                            |                      | 13.00-16.00 |    |     | 2   | 4 |     | 5   |
|                                       |                                                              | 13 | +0.018                                     | +0.029               | 14.00-18.00 |    | 10  |     |   |     | 5.5 |
|                                       |                                                              | 16 | +0.007                                     | +0.018               | 17.00-25.00 | 22 |     |     |   |     | 7   |
|                                       |                                                              | 20 | +0.021<br>+0.008                           | +0.035<br>+0.022     | 22.00-30.00 | 30 | 15  | 3   | 5 | 2   | 9   |

■ P, L, B konfigurierbar

[illegible]

!Maß P in ( ) gilt für Rautenform.



| Ordering Example | Teilenummer |             |    | - | P      | - | L   | - | B    |
|------------------|-------------|-------------|----|---|--------|---|-----|---|------|
|                  | Ausführung  | 0 Tol. Form | D  |   |        |   |     |   |      |
|                  | JP          | BB          | 6  | - | 10     |   |     |   |      |
|                  | JP          | BD          | 8  | - | 11.98  |   |     |   |      |
|                  | FP          | BA          | 10 | - | P12.02 | - | L10 | - | B3.2 |
|                  | FP          | BD          | 12 | - | P13.97 | - | L12 | - | B5   |

■ P frei wählbar

| D  | Stückpreis runde Form                               |                                                   |                                              |                                              |                                                   |                                              | Stückpreis rautenförmig                             |                                                 |                                             |                                             |                                                  |                                            |
|----|-----------------------------------------------------|---------------------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------------------------|----------------------------------------------|-----------------------------------------------------|-------------------------------------------------|---------------------------------------------|---------------------------------------------|--------------------------------------------------|--------------------------------------------|
|    | ① EN 1.2510<br>Äquivalent gehärtet<br>JPBB<br>JPBBP | ② Hart EN 1.2510<br>Äquivalent<br>GJPBB<br>GJPBBP | ③ EN 1.2510<br>Äquivalent<br>BJPBB<br>BJPBBP | ④ EN 1.4301<br>Äquivalent<br>SJPBB<br>SJPBBP | ⑤ Hart EN 1.4301<br>Äquivalent<br>HJPBB<br>HJPBBP | ⑥ EN 1.4125<br>Äquivalent<br>CJPBB<br>CJPBBP | ① EN 1.2510<br>Äquivalent gehärtet<br>JPDB<br>JPDPB | ② Hart EN 1.2510<br>Äquivalent<br>GJPB<br>GJDPB | ③ EN 1.2510<br>Äquivalent<br>BJPDB<br>BJDPB | ④ EN 1.4301<br>Äquivalent<br>SJPDB<br>SJDPB | ⑤ Hart EN 1.4301<br>Äquivalent<br>HJPDB<br>HJDPB | ⑥ EN 1.4125<br>Äquivalent<br>CJPB<br>CJDPB |
| 1  |                                                     |                                                   |                                              |                                              |                                                   |                                              | -                                                   | -                                               | -                                           | -                                           | -                                                | -                                          |
| 2  |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 3  |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 4  |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 5  |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 6  |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 8  |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 10 |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 12 |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 13 |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 16 |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |
| 20 |                                                     |                                                   |                                              |                                              |                                                   |                                              |                                                     |                                                 |                                             |                                             |                                                  |                                            |

■P konfigurierbar

[illegible]

■ P, L, B konfigurierbar

| D  | Stückpreis runde Form                                       |                                                            |                                                       |                                                       |                                                            |                                                       | Stückpreis rautenförmig                                     |                                                            |                                                       |                                                       |                                                            |                                                       |
|----|-------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------|
|    | ① EN 1.2510<br>Äquivalent gehärtet<br>FPBA<br>FPBPA<br>FPBG | ② Hart EN 1.2510<br>Äquivalent<br>GFPBA<br>GFPBPA<br>GFPBG | ③ EN 1.2510<br>Äquivalent<br>BFPBA<br>BFPBPA<br>BFPBG | ④ EN 1.4301<br>Äquivalent<br>HFPBA<br>HFPBPA<br>HFPBG | ⑤ Hart EN 1.4301<br>Äquivalent<br>HFPBA<br>HFPBPA<br>HFPBG | ⑥ EN 1.4125<br>Äquivalent<br>CFPBA<br>CFPBPA<br>CFPBG | ① EN 1.2510<br>Äquivalent gehärtet<br>FPBD<br>FPBPD<br>FPDG | ② Hart EN 1.2510<br>Äquivalent<br>GFPBD<br>GFPBPD<br>GFPDG | ③ EN 1.2510<br>Äquivalent<br>BFPBD<br>BFPBPD<br>BFPDG | ④ EN 1.4301<br>Äquivalent<br>SFPBD<br>SFPBPD<br>SFPDG | ⑤ Hart EN 1.4301<br>Äquivalent<br>HFPBD<br>HFPBPD<br>HFPDG | ⑥ EN 1.4125<br>Äquivalent<br>CFPBD<br>CFPBPD<br>CFPDG |
| 1  |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 2  |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 3  |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 4  |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 5  |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 6  |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 8  |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 10 |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 12 |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 13 |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 16 |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |
| 20 |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |                                                             |                                                            |                                                       |                                                       |                                                            |                                                       |

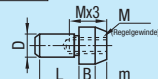


Alterations  **Teilenummer** - **P** - **L** - **B** - (MH, NTK, TC, RC)  
**FPBPA10** - **P11.01** - **L12** - **B6.4** - **TC6**

⊗ Für wählbares Maß  $P$  sind keine Optionen verfügbar.



### Example

| Optionen<br>Code | Gewindebohrung<br>MH                                                                                                                                                                                                                                                                                                                                                          | Abnehmen des Hahns<br>NTK | Länge der Kegelspitze<br>TC | Kugelspitze<br>RC |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------|-------------------|------|----|---|-------|----|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---------|---|---|---------|-------|---|---------|-------|---|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|----|---|-----|---|------|---|-----|----|------|---|-----|----|------|---|------|----|------|---|------|----|------|---|------|----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | <p>Hinzufügung einer Gewindebohrung<br/>Bestellnr. MH</p>  <p>Verfügbar für D≥6<br/>B: 2+4</p> <table><tr><th>D</th><th>m</th><th>2</th></tr><tr><td>8-13</td><td>M4</td><td>6</td></tr><tr><td>16,20</td><td>M6</td><td>9</td></tr></table> <p>Kombination mit NTK nicht verfügbar.</p> | D                         | m                           | 2                 | 8-13 | M4 | 6 | 16,20 | M6 | 9 | <p>Entfernt ein ausbaufähiges Zapfloch.<br/>Bestellnr. NTK</p>  <table><tr><th>D</th><th>M</th><th>3</th><th>B</th></tr><tr><td>6</td><td>8</td><td>1,0-4,5</td></tr><tr><td>8</td><td>4</td><td>1,0-5,9</td></tr><tr><td>10,12</td><td>5</td><td>3,0-8,6</td></tr><tr><td>13-20</td><td>8</td><td>5,0-15,2</td></tr></table> <p>Maß P, B bei konfigurierbarer Ausführung gilt nur für D=6.<br/>Kombination mit MH, TC nicht verfügbar.<br/>Effektive Gewindelänge von D hängt von wählbarem Maß B ab.<br/>Bei L=3-m-M3 sind die Gewindebohrungen durchgängig.<br/>Bei B=4-m-M3 können die Gewindebohrungen durchgängig sein.</p> | D | M | 3 | B | 6 | 8 | 1,0-4,5 | 8 | 4 | 1,0-5,9 | 10,12 | 5 | 3,0-8,6 | 13-20 | 8 | 5,0-15,2 | <p>Änderung von Maß m.<br/>Bestellnr. TC8 (1mm-Schritte)</p>  <table><tr><th>D</th><th>TC</th><th>D</th><th>TC</th></tr><tr><td>1</td><td>1-2</td><td>8</td><td>5-16</td></tr><tr><td>2</td><td>2-5</td><td>10</td><td>5-22</td></tr><tr><td>3</td><td>3-9</td><td>12</td><td>5-22</td></tr><tr><td>4</td><td>4-11</td><td>13</td><td>5-22</td></tr><tr><td>5</td><td>4-11</td><td>16</td><td>6-23</td></tr><tr><td>6</td><td>4-13</td><td>20</td><td>6-23</td></tr></table> <p>B+m&gt;TC+2 (gerader Abschnitt min. 2mm)<br/>Verfügbar für P≥2,00.<br/>P/2-TC x tan15°(=0,27) &gt; 0,5 (SpitzenØ1,0min.)<br/>Bei wählbarem TC ändert sich Maß B.<br/>(Geändertes Maß B = B+m-TC)<br/>Kombination mit NTK nicht verfügbar.</p> | D | TC | D | TC | 1 | 1-2 | 8 | 5-16 | 2 | 2-5 | 10 | 5-22 | 3 | 3-9 | 12 | 5-22 | 4 | 4-11 | 13 | 5-22 | 5 | 4-11 | 16 | 6-23 | 6 | 4-13 | 20 | 6-23 | <p>Änderung des Freistichs auf R0,5.<br/>Bestellnr. RC</p>  <p>Verfügbar, wenn P-D≥2</p> |
| D                | m                                                                                                                                                                                                                                                                                                                                                                             | 2                         |                             |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 8-13             | M4                                                                                                                                                                                                                                                                                                                                                                            | 6                         |                             |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 16,20            | M6                                                                                                                                                                                                                                                                                                                                                                            | 9                         |                             |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| D                | M                                                                                                                                                                                                                                                                                                                                                                             | 3                         | B                           |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 6                | 8                                                                                                                                                                                                                                                                                                                                                                             | 1,0-4,5                   |                             |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 8                | 4                                                                                                                                                                                                                                                                                                                                                                             | 1,0-5,9                   |                             |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 10,12            | 5                                                                                                                                                                                                                                                                                                                                                                             | 3,0-8,6                   |                             |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 13-20            | 8                                                                                                                                                                                                                                                                                                                                                                             | 5,0-15,2                  |                             |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| D                | TC                                                                                                                                                                                                                                                                                                                                                                            | D                         | TC                          |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 1                | 1-2                                                                                                                                                                                                                                                                                                                                                                           | 8                         | 5-16                        |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 2                | 2-5                                                                                                                                                                                                                                                                                                                                                                           | 10                        | 5-22                        |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 3                | 3-9                                                                                                                                                                                                                                                                                                                                                                           | 12                        | 5-22                        |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 4                | 4-11                                                                                                                                                                                                                                                                                                                                                                          | 13                        | 5-22                        |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 5                | 4-11                                                                                                                                                                                                                                                                                                                                                                          | 16                        | 6-23                        |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |
| 6                | 4-13                                                                                                                                                                                                                                                                                                                                                                          | 20                        | 6-23                        |                   |      |    |   |       |    |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |   |   |   |   |   |         |   |   |         |       |   |         |       |   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |    |   |    |   |     |   |      |   |     |    |      |   |     |    |      |   |      |    |      |   |      |    |      |   |      |    |      |                                                                                                                                                                               |

Durch die Kombination von runden und Rautenformen können die Richtung A und Fehler im Bohrungsabstand der entsprechenden Bohrung in Richtung B genau festgelegt werden.

