



# Diamond Tooling Systems

PKD  
PCD

Wendeschneidplatten | indexable inserts

CVD



## Einsatzgebiete: application range:

|                            |                               |
|----------------------------|-------------------------------|
| Aluminium                  | Aluminium                     |
| Kupfer-Messing Legierungen | Copper-Brass Alloys           |
| Graphit                    | Graphite                      |
| GFK-CFK                    | Glass-Carbon fibre reinforced |
| Keramik                    | Ceramic                       |
| Zirkon                     | Zirconium                     |



Mit Sitz in Kaiserslautern-Deutschland haben wir uns auf die Entwicklung, Herstellung und den Vertrieb von Präzisionswerkzeugen aus ultraharten Schneidstoffen wie CVD-D (CVD-Dickfilm Diamant), PKD (Polykristalliner Diamant) und CBN (Kubisches Bornitrid) spezialisiert und national so wie international erfolgreich am Markt etabliert.

Um diese ultraharten Schneidstoffe wie PKD, CBN und den CVD-Dickfilm Diamant auf Präzisionswerkzeugen wirtschaftlich bearbeiten zu können haben wir schon früh erkannt, dass wir uns von der alten Produktionstechnologie „Schleifen“ hin zu neuen Technologien wie der „Lasertechnologie“ weiterentwickeln müssen.

Ultraharte Hochleistungsschneidstoffe haben eine Schlüssel-funktion in der spanenden Fertigung.

Präzisionswerkzeuge aus ultraharten Schneidstoffen sind sehr erklärungsbedürftige Produkte. Der wirtschaftliche Einsatz der Schneidstoffe ist nur sichergestellt, wenn der Zerspanungsprozess und der Schneidstoff aufeinander abgestimmt sind.

Genau hier setzt Diamond Tooling Systems GmbH an, „Unsere Kernkompetenz sind Präzisionswerkzeuge aus ultraharten Schneidstoffen“. Diese Hightech-Werkzeuge müssen zum Zerspanungsprozess mit Anwendungstechnikern genau abgestimmt werden, nur so ist es möglich, das optimale Potenzial auszuschöpfen.

Mit mehr als 25 Jahren Optimierungserfahrung in der verarbeitenden Industrie sehen wir hier unsere Stärke! Während der laufenden Produktion stehen wir Ihnen mit unseren erfahrenen Anwendungstechnikern beratend zur Seite. Diese enge Zusammenarbeit und das gegenseitige Vertrauen ist die Basis unseres Erfolges.



Located in Kaiserslautern, Germany we are specialized in the development, production and sales of precision tools made from ultra-hard cutting materials such as CVD-D (CVD, thick film diamond), PCD (polycrystalline diamond) and CBN (cubic boron nitride). We have successfully established these in national and international markets.

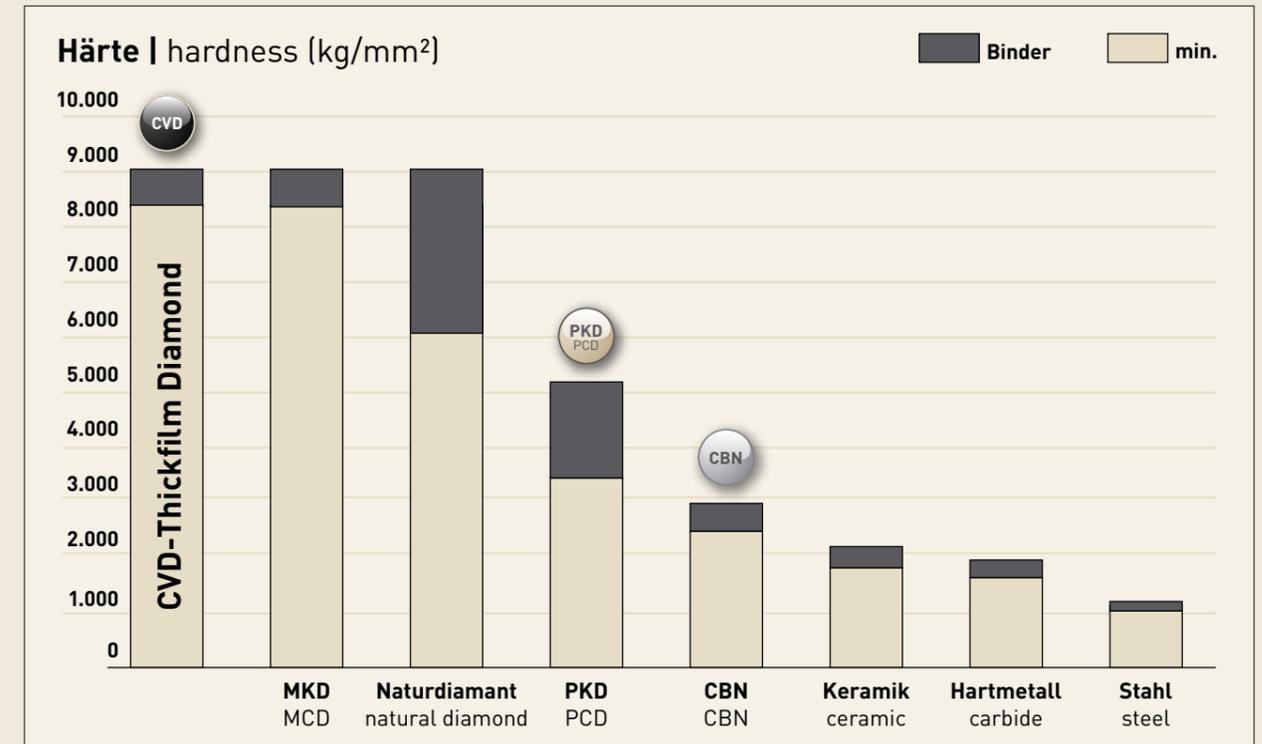
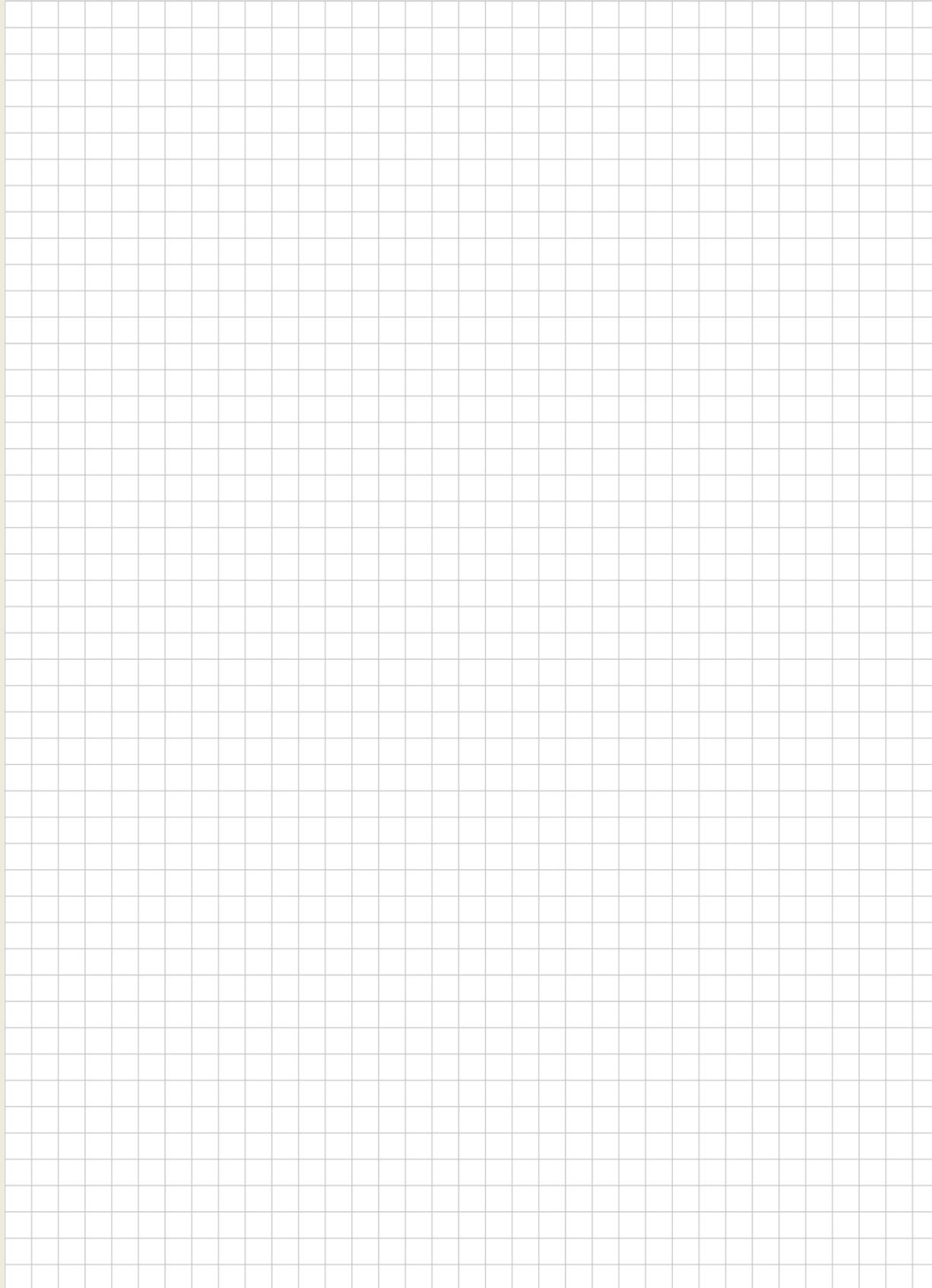
In order to economically process these ultra-hard cutting materials such as PCD, CBN and CVD thick film diamond onto precision tools we noticed at an early stage that we should move on from the older manufacturing technologies such as grinding and advance to newer technologies such as laser technology.

Ultra-hard high-performance cutting materials now have a key function and place in the metal cutting industry and production. Precision tools from ultra-hard cutting materials are products which require a more depth of explanation. The economical usage of these materials provides a guarantee when the cutting process and cutting materials are fully aligned. This is where "Diamond Tooling Systems GmbH" comes into the picture. We provide these precision tools made from such ultra-hard cutting materials.

These high-tech tools require together with an experienced application engineer a need to be aligned with the cutting process in order to exploit their optimal potential. Our strengths lie in having more than 25 years of optimization experience within the producing industry. During the initial stages of running production, we will be by your side offering a professional consultation service along with our experienced application engineers. This side by side cooperation based on mutual trust is the keystone of our success.



|  |           |                                 |           |
|--|-----------|---------------------------------|-----------|
| <b>Schneidstoffgruppen</b><br>groups of cuttingmaterial.....             | <b>5</b>  | <b>RCGW   FullFace</b> .....    | <b>28</b> |
| <b>ISO Nummernschlüssel</b><br>ISO codes .....                           | <b>6</b>  | <b>RDHX   FullFace</b> .....    | <b>29</b> |
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| <b>CNGA   Z1</b> .....   | <b>17</b> | <b>TPGN   Z1 GS</b> .....       | <b>40</b> |
| <b>CPGT   Z1</b> .....   | <b>18</b> | <b>TPGW   Z1</b> .....          | <b>41</b> |
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| <b>DCGT   Z1</b> .....   | <b>20</b> | <b>VBGW   Z1</b> .....          | <b>43</b> |
| <b>DCGW   Z2</b> .....   | <b>21</b> | <b>VCGT   Z1</b> .....          | <b>44</b> |
| <b>DCGW   Z1</b> .....   | <b>22</b> | <b>VCGW   Z2</b> .....          | <b>45</b> |
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| <b>DNGA   Z1</b> .....   | <b>24</b> | <b>VXGW   Z1</b> .....          | <b>47</b> |
| <b>EPGW   Z2</b> .....   | <b>25</b> | <b>WCGW   Z3</b> .....          | <b>48</b> |
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| <b>RBGN   FullFace</b> .....   | <b>27</b> |                                 |           |



**CVD Dickfilm Diamant – der härteste Schneidstoff der Welt!**

Der ultraharte Schneidstoff „CVD-Dickfilm Diamant“ besitzt die höchste Härte und den höchsten Verschleißwiderstand aller untersuchten Schneidstoffe.

Der „PKD Schneidstoff“ hat im Gegensatz zum „CVD-Dickfilm Diamant“ deutliche Nachteile aufgrund seiner weichen metallischen Bindephase. In zahlreichen Versuchen konnte nachgewiesen werden, dass vor allem die weiche Bindephase des PKD durch die abrasiven Partikel geschädigt wird. Die Folge ist ein Ausbrechen der Diamantkristalle aufgrund einer verminderten Verankerung in der Schneidstoffmatrix.

Bei richtigem Einsatz von CVD-Dickfilm Diamant können die Standzeiten gegenüber PKD um das 3-10fache erhöht werden!

**CVD Thickfilm Diamond the hardest cutting material of the world!**

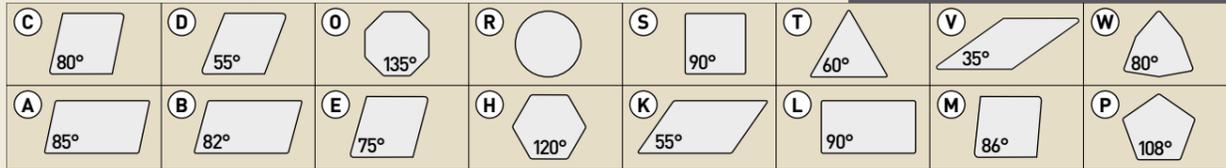
The mostly used “PCD cutting material” has in comparison to the “CVD-thickfilm diamond” clear drawbacks due to its soft metallic binder. In several tests it has been proven that especially the soft binder of the PCD is damaged through abrasive particles. The consequence is a break out of the diamond crystals due to a reduced anchorage in the cutting material matrix.

The consequence of this is that by the machining of aluminum – and magnesium alloys and also non ferrous materials preferably diamond is used as cutting material. The clean diamond segments, which in most cases are brazed onto a carbide insert.

The tool life can be increased with CVD thickfilm diamond approx 3 to 10 times vs. PCD.

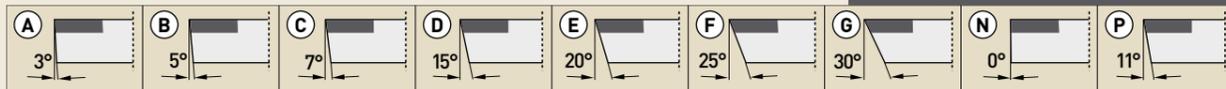
Grundform | shape

T N G A 16 04 08



Freiwinkel | clearance

T N G A 16 04 08



Toleranz (mm) | tolerance (mm)

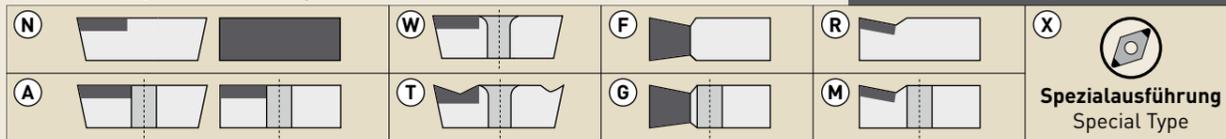
T N G A 16 04 08

|   | m      | s      | d      |   | m             | s      | d             |
|---|--------|--------|--------|---|---------------|--------|---------------|
| A | ±0,005 | ±0,025 | ±0,025 | J | ±0,005        | ±0,025 | ±0,05 → ±0,15 |
| F | ±0,005 | ±0,025 | ±0,013 | K | ±0,013        | ±0,025 | ±0,05 → ±0,15 |
| C | ±0,013 | ±0,025 | ±0,025 | L | ±0,025        | ±0,025 | ±0,05 → ±0,15 |
| H | ±0,013 | ±0,025 | ±0,013 | M | ±0,08 → ±0,20 | ±0,130 | ±0,05 → ±0,15 |
| E | ±0,025 | ±0,025 | ±0,025 | N | ±0,08 → ±0,20 | ±0,25  | ±0,05 → ±0,15 |
| G | ±0,025 | ±0,130 | ±0,025 | U | ±0,13 → ±0,38 | ±0,130 | ±0,08 → ±0,15 |

\* (M, N, U) Die genaue Toleranz ist von der Größe der Platte abhängig | Die genaue Toleranz ist von der Größe der Platte abhängig

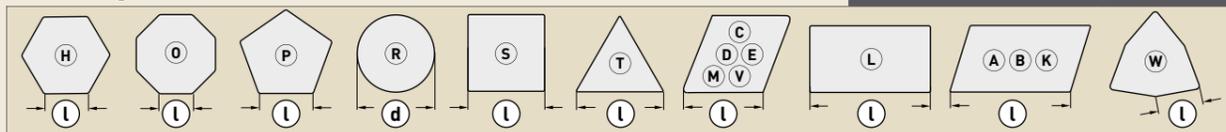
Plattentyp | insert type

T N G A 16 04 08



Plattengröße (mm) | insert size (mm)

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Dicke (mm) | insert size (mm)

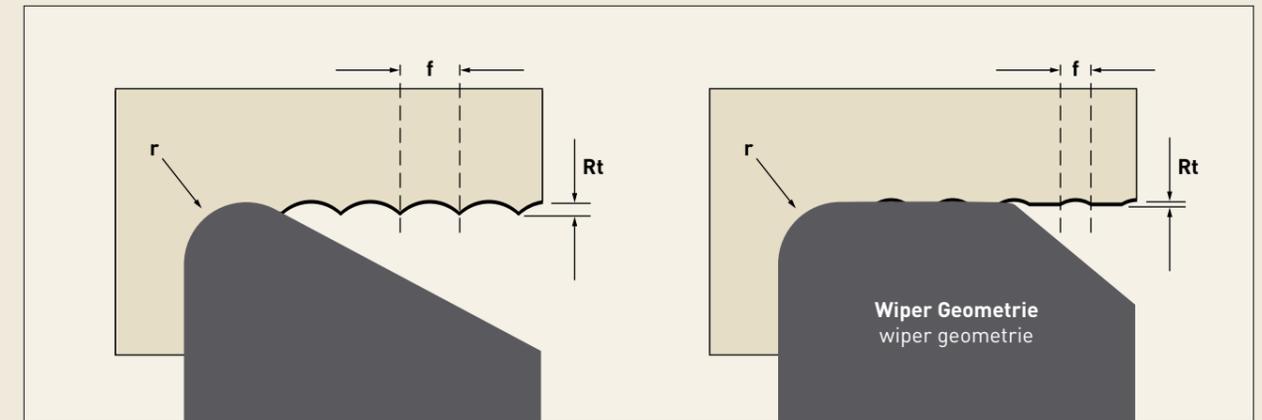
T N G A 16 04 08

01 s = 1,59   02 s = 2,38   03 s = 3,18   04 s = 4,76   05 s = 5,56   06 s = 6,35

Bei Ziffern unter 10 wird eine Null vorgesetzt. Dezimalstellen bleiben unberücksichtigt. (Beispiel: 4,76 = 04)  
By numbers below 10 a 0 is added in at the front. Decimals remain unconsidered (example: 4,76 = 04)

Schneidenecke (mm) | corner configuration (mm)

T N G A 16 04 08



Vorteile beim Einsatz von Wiper Geometrien

Bei gleichem Vorschub kann eine 2 - 4fach bessere Oberflächen-güte erzielt werden oder bei 2 - 4fach höherem Vorschub kann die gleiche Oberflächengüte erzielt werden.

Um die Wiper-Schneide in den Schnitt zu bekommen bitte folgende Anstellwinkel an der Maschine beachten:

- C und W Type = 95°
- D Type = 93°
- T Type = 91°

Advantages when using wiper geometries

By using the same feed rate a 2 - 4 times better surface quality can be obtained or with a 2 - 4 times higher feed rate the same surface quality can be reached.

To get the wiper geometry into cutting condition please use following lead angles at the machine:

- C and W Type = 95°
- D Type = 93°
- T Type = 91°

Formeln | formulas

|   | metrisch   metric                                |                      | Zoll   inch                                    |  |
|---|--|----------------------|--|--|
|   | Formel   formula                                 | Einheiten   units    | Formel   formula                               | Einheiten   units                                |
| Vorschubgeschwindigkeit<br>feed rate          | $V_f = f_n \times n$                             | mm/min               | $V_f = f_n \times n$                           | Zoll/min<br>inch/min                             |
| Spindeldrehzahl<br>spindle speed              | $n = \frac{V_c \times 1000}{\pi \times DC_{ap}}$ | U/min<br>rev/min     | $n = \frac{V_c \times 12}{\pi \times DC_{ap}}$ | U/min<br>rev/min                                 |
| Vorschub pro Umdrehung<br>feed per revolution | $f_n = \frac{V_f}{n}$                            | mm/U<br>mm/rev       | $f_n = \frac{V_f}{n}$                          | Zoll/U<br>inch/rev                               |
| Bearbeitungszeit<br>cutting time              | $T_c = \frac{L_m}{f_n \times n}$                 | min                  | $T_c = \frac{L_m}{f_n \times n}$               | min  |
| Zeitspanvolumen<br>stock removal rate         | $Q = V_c \times a_p \times f_n$                  | cm <sup>3</sup> /min | $Q = V_c \times a_p \times f_n \times 12$      | Zoll <sup>3</sup> /min<br>inch <sup>3</sup> /min |

# Schnittdaten Empfehlungen | recommended cutting parameters



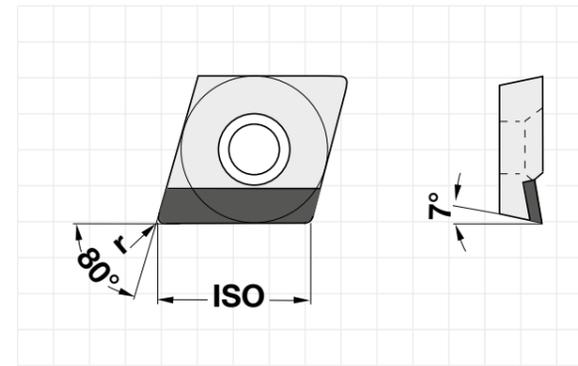
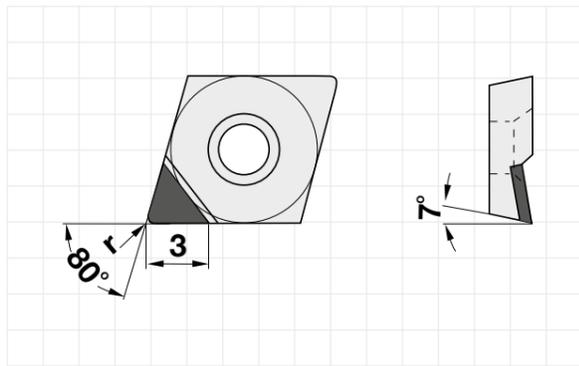
| Neutral/Positiv  | P   | N   |
|--|---|---|
| WSP Spanwinkel 0° + pos.<br>Inserts rake angle 0° + pos. | mit Schlicht-Spanleitstufe<br>with finishing chip breaker | mit Schrupp-Spanleitstufe<br>with roughing chip breaker |
|  |   |   |

| Werkstoff   material  | r   | V <sub>c</sub> |      | a <sub>p</sub> |      | f    |      | V <sub>c</sub> |      | a <sub>p</sub> |      | f    |      | V <sub>c</sub> |      | a <sub>p</sub> |      | f    |      |
|---|-----|----------------|------|----------------|------|------|------|----------------|------|----------------|------|------|------|----------------|------|----------------|------|------|------|
|   |     | min            | max  | min            | max  | min  | max  | min            | max  | min            | max  | min  | max  | min            | max  | min            | max  | min  | max  |
| Aluminium-Knetlegierung Si < 1%<br>Aluminium alloys Si < 1%   | 0,1 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,05 | 300            | 6000 |                |      |      |      | 300            | 6000 |                |      |      |      |
|   | 0,2 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,10 | 300            | 6000 | 0,06           | 1,50 | 0,02 | 0,10 | 300            | 6000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,20 | 300            | 6000 | 0,06           | 2,00 | 0,04 | 0,20 | 300            | 6000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,40 | 300            | 6000 | 0,06           | 2,40 | 0,08 | 0,40 | 300            | 6000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,60 | 300            | 6000 | 0,06           | 2,85 | 0,12 | 0,60 | 300            | 6000 | 0,12           | 2,80 | 0,30 | 0,60 |
| Aluminium-Knetlegierung Si < 12%<br>Aluminium alloys Si < 12% | 0,1 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,05 | 300            | 2000 |                |      |      |      | 300            | 3000 |                |      |      |      |
|   | 0,2 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,10 | 300            | 2000 | 0,06           | 1,50 | 0,02 | 0,10 | 300            | 3000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,20 | 300            | 2000 | 0,06           | 2,00 | 0,04 | 0,20 | 300            | 3000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,40 | 300            | 2000 | 0,06           | 2,40 | 0,08 | 0,40 | 300            | 3000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,60 | 300            | 2000 | 0,06           | 2,85 | 0,12 | 0,60 | 300            | 3000 | 0,12           | 2,80 | 0,30 | 0,60 |
| Kupfer-Messing Legierungen<br>Copper-Brass Alloys             | 0,1 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,05 | 300            | 3000 |                |      |      |      | 300            | 5000 |                |      |      |      |
|   | 0,2 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,10 | 300            | 3000 | 0,06           | 1,50 | 0,02 | 0,10 | 300            | 5000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,20 | 300            | 3000 | 0,06           | 2,00 | 0,04 | 0,20 | 300            | 5000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,40 | 300            | 3000 | 0,06           | 2,40 | 0,08 | 0,40 | 300            | 5000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,60 | 300            | 3000 | 0,06           | 2,85 | 0,12 | 0,60 | 300            | 5000 | 0,12           | 2,80 | 0,30 | 0,60 |
| Keramik / Zirkon<br>Ceramic / Zirconium                       | 0,1 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,05 | 100            | 3000 |                |      |      |      | 100            | 5000 |                |      |      |      |
|   | 0,2 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,10 | 100            | 3000 | 0,06           | 1,50 | 0,02 | 0,10 | 100            | 5000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,20 | 100            | 3000 | 0,06           | 2,00 | 0,04 | 0,20 | 100            | 5000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,40 | 100            | 3000 | 0,06           | 2,40 | 0,08 | 0,40 | 100            | 5000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,60 | 100            | 3000 | 0,06           | 2,85 | 0,12 | 0,60 | 100            | 5000 | 0,12           | 2,80 | 0,30 | 0,60 |
| GFK-CFK / Graphit<br>Glass-Carbon-fibre reinforced / Graphite | 0,1 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,05 | 100            | 4000 |                |      |      |      | 100            | 6000 |                |      |      |      |
|   | 0,2 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,10 | 100            | 4000 | 0,06           | 1,50 | 0,02 | 0,10 | 100            | 6000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,20 | 100            | 4000 | 0,06           | 2,00 | 0,04 | 0,20 | 100            | 6000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,40 | 100            | 4000 | 0,06           | 2,40 | 0,08 | 0,40 | 100            | 6000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,60 | 100            | 4000 | 0,06           | 2,85 | 0,12 | 0,60 | 100            | 6000 | 0,12           | 2,80 | 0,30 | 0,60 |



| Neutral/Positiv  | P   | N   |
|--|---|---|
| WSP Spanwinkel 0° + pos.<br>Inserts rake angle 0° + pos. | mit Schlicht-Spanleitstufe<br>with finishing chip breaker | mit Schrupp-Spanleitstufe<br>with roughing chip breaker |
|  |   |   |

| Werkstoff   material  | r   | V <sub>c</sub> |      | a <sub>p</sub> |      | f    |      | V <sub>c</sub> |      | a <sub>p</sub> |      | f    |      | V <sub>c</sub> |      | a <sub>p</sub> |      | f    |      |
|---|-----|----------------|------|----------------|------|------|------|----------------|------|----------------|------|------|------|----------------|------|----------------|------|------|------|
|   |     | min            | max  | min            | max  | min  | max  | min            | max  | min            | max  | min  | max  | min            | max  | min            | max  | min  | max  |
| Aluminium-Knetlegierung Si < 1%<br>Aluminium alloys Si < 1%   | 0,1 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,05 | 300            | 6000 |                |      |      |      | 300            | 6000 |                |      |      |      |
|   | 0,2 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,10 | 300            | 6000 | 0,06           | 1,50 | 0,02 | 0,10 | 300            | 6000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,20 | 300            | 6000 | 0,06           | 2,00 | 0,04 | 0,20 | 300            | 6000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,40 | 300            | 6000 | 0,06           | 2,40 | 0,08 | 0,40 | 300            | 6000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 150            | 6000 | 0,01           | 2,80 | 0,01 | 0,60 | 300            | 6000 | 0,06           | 2,85 | 0,12 | 0,60 | 300            | 6000 | 0,12           | 2,80 | 0,30 | 0,60 |
| Aluminium-Knetlegierung Si < 12%<br>Aluminium alloys Si < 12% | 0,1 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,05 | 300            | 2000 |                |      |      |      | 300            | 3000 |                |      |      |      |
|   | 0,2 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,10 | 300            | 2000 | 0,06           | 1,50 | 0,02 | 0,10 | 300            | 3000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,20 | 300            | 2000 | 0,06           | 2,00 | 0,04 | 0,20 | 300            | 3000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,40 | 300            | 2000 | 0,06           | 2,40 | 0,08 | 0,40 | 300            | 3000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,60 | 300            | 2000 | 0,06           | 2,85 | 0,12 | 0,60 | 300            | 3000 | 0,12           | 2,80 | 0,30 | 0,60 |
| Kupfer-Messing Legierungen<br>Copper-Brass Alloys             | 0,1 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,05 | 300            | 3000 |                |      |      |      | 300            | 5000 |                |      |      |      |
|   | 0,2 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,10 | 300            | 3000 | 0,06           | 1,50 | 0,02 | 0,10 | 300            | 5000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,20 | 300            | 3000 | 0,06           | 2,00 | 0,04 | 0,20 | 300            | 5000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,40 | 300            | 3000 | 0,06           | 2,40 | 0,08 | 0,40 | 300            | 5000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 150            | 4000 | 0,01           | 2,80 | 0,01 | 0,60 | 300            | 3000 | 0,06           | 2,85 | 0,12 | 0,60 | 300            | 5000 | 0,12           | 2,80 | 0,30 | 0,60 |
| Keramik / Zirkon<br>Ceramic / Zirconium                       | 0,1 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,05 | 100            | 3000 |                |      |      |      | 100            | 5000 |                |      |      |      |
|   | 0,2 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,10 | 100            | 3000 | 0,06           | 1,50 | 0,02 | 0,10 | 100            | 5000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,20 | 100            | 3000 | 0,06           | 2,00 | 0,04 | 0,20 | 100            | 5000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,40 | 100            | 3000 | 0,06           | 2,40 | 0,08 | 0,40 | 100            | 5000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 150            | 5000 | 0,01           | 2,80 | 0,01 | 0,60 | 100            | 3000 | 0,06           | 2,85 | 0,12 | 0,60 | 100            | 5000 | 0,12           | 2,80 | 0,30 | 0,60 |
| GFK-CFK / Graphit<br>Glass-Carbon-fibre reinforced / Graphite | 0,1 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,05 | 100            | 4000 |                |      |      |      | 100            | 6000 |                |      |      |      |
|   | 0,2 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,10 | 100            | 4000 | 0,06           | 1,50 | 0,02 | 0,10 | 100            | 6000 | 0,12           | 2,80 | 0,08 | 0,10 |
|   | 0,4 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,20 | 100            | 4000 | 0,06           | 2,00 | 0,04 | 0,20 | 100            | 6000 | 0,12           | 2,80 | 0,12 | 0,20 |
|   | 0,8 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,40 | 100            | 4000 | 0,06           | 2,40 | 0,08 | 0,40 | 100            | 6000 | 0,12           | 2,80 | 0,25 | 0,40 |
|   | 1,2 | 100            | 6000 | 0,01           | 2,80 | 0,01 | 0,60 | 100            | 4000 | 0,06           | 2,85 | 0,12 | 0,60 | 100            | 6000 | 0,12           | 2,80 | 0,30 | 0,60 |



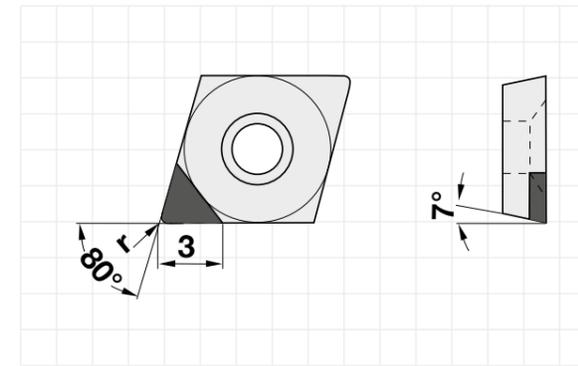
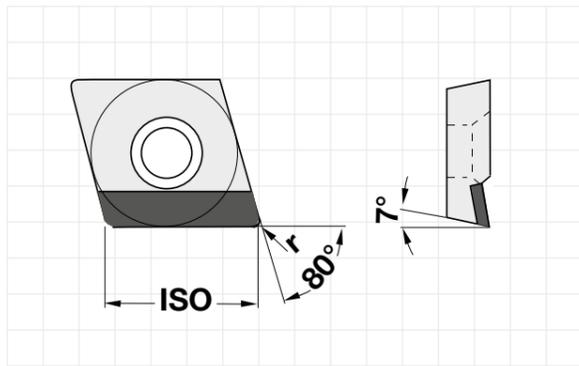
|          | Positiv             |                               | P                             |                               | N                             |                               | Klemmhalter<br>Toolholder  |
|----------|---------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------|
|          | Positiv<br>Positive | Spanleitstufe<br>Chip breaker |                            |
|          | PKD<br>PCD          | CVD                           | PKD<br>PCD                    | CVD                           | PKD<br>PCD                    | CVD                           |                            |
|          | ISO-Code            | DTS Code                      |                            |
| Standard | CCGT 06 02 02       | DP1010-0001                   | DP2010-0001                   |                               |                               |                               | SCLC...06<br>A/E...SCLC.06 |
|          | CCGT 06 02 04       | DP1010-0002                   | DP2010-0002                   |                               |                               |                               |                            |
|          | CCGT 06 02 08       | DP1010-0003                   | DP2010-0003                   |                               |                               |                               |                            |
|          | CCGT 09 T3 02       | DP1010-0004                   | DP2010-0004                   |                               |                               |                               |                            |
|          | CCGT 09 T3 04       | DP1010-0005                   | DP2010-0005                   |                               |                               |                               | SCLC...09<br>A/E...SCLC.09 |
|          | CCGT 09 T3 08       | DP1010-0006                   | DP2010-0006                   |                               |                               |                               |                            |
|          | CCGT 09 T3 12       | DP1010-0007                   | DP2010-0007                   |                               |                               |                               |                            |
|          | CCGT 12 04 02       | DP1010-0008                   | DP2010-0008                   |                               |                               |                               | SCLC...12<br>A...SCLC.12   |
|          | CCGT 12 04 04       | DP1010-0009                   | DP2010-0009                   |                               |                               |                               |                            |
|          | CCGT 12 04 08       | DP1010-0010                   | DP2010-0010                   |                               |                               |                               |                            |
| Wiper    | CCGT 06 02 02       | DP1010-0011                   | DP2010-0011                   |                               |                               |                               | SCLC...06<br>A/E...SCLC.06 |
|          | CCGT 06 02 04       | DP1010-0012                   | DP2010-0012                   |                               |                               |                               |                            |
|          | CCGT 06 02 08       | DP1010-0013                   | DP2010-0013                   |                               |                               |                               |                            |
|          | CCGT 09 T3 02       | DP1010-0014                   | DP2010-0014                   |                               |                               |                               |                            |
|          | CCGT 09 T3 04       | DP1010-0015                   | DP2010-0015                   |                               |                               |                               | SCLC...09<br>A/E...SCLC.09 |
|          | CCGT 09 T3 08       | DP1010-0016                   | DP2010-0016                   |                               |                               |                               |                            |
|          | CCGT 12 04 02       | DP1010-0018                   | DP2010-0018                   |                               |                               |                               |                            |
|          | CCGT 12 04 04       | DP1010-0019                   | DP2010-0019                   |                               |                               |                               | SCLC...12<br>A...SCLC.12   |
|          | CCGT 12 04 08       | DP1010-0020                   | DP2010-0020                   |                               |                               |                               |                            |

|                    | Positiv             |                               | P                             |                               | N                             |                               | Klemmhalter<br>Toolholder  |
|--------------------|---------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|----------------------------|
|                    | Positiv<br>Positive | Spanleitstufe<br>Chip breaker |                            |
|                    | PKD<br>PCD          | CVD                           | PKD<br>PCD                    | CVD                           | PKD<br>PCD                    | CVD                           |                            |
|                    | ISO-Code            | DTS Code                      |                            |
| CCGT 06 02 02 R-GS | DP1020-0055         | DP2020-0055                   |                               |                               |                               |                               | SCLCR...06<br>A...SCLCR.06 |
| CCGT 06 02 04 R-GS | DP1020-0001         | DP2020-0001                   |                               |                               |                               |                               |                            |
| CCGT 06 02 08 R-GS | DP1020-0002         | DP2020-0002                   |                               |                               |                               |                               |                            |
| CCGT 09 T3 04 R-GS | DP1020-0056         | DP2020-0056                   |                               |                               |                               |                               | SCLCR...09<br>A...SCLCR.09 |
| CCGT 09 T3 08 R-GS | DP1020-0003         | DP2020-0003                   |                               |                               |                               |                               |                            |
| CCGT 09 T3 12 R-GS | DP1020-0004         | DP2020-0004                   |                               |                               |                               |                               |                            |
| CCGT 12 04 04 R-GS | DP1020-0057         | DP2020-0057                   |                               |                               |                               |                               | SCLCR...09<br>A...SCLCR.09 |
| CCGT 12 04 08 R-GS | DP1020-0005         | DP2020-0005                   |                               |                               |                               |                               |                            |

● Aluminium-Knetlegierung  
 Aluminium alloys  
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Keramik / Zirkon  
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 GFK-CFK / Graphit  
 Glass-Carbonfibre reinforced / Graphite

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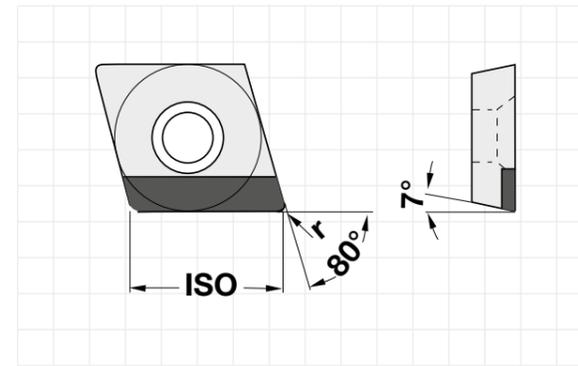
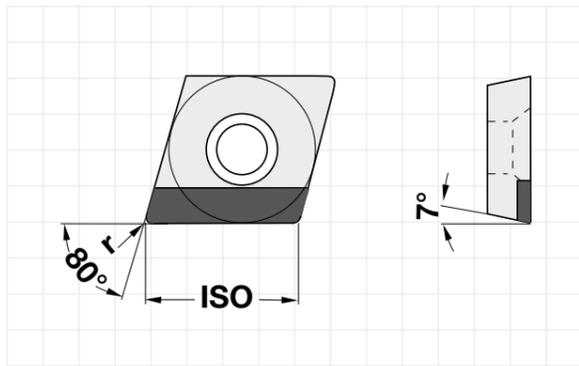


| ISO-Code           | Positiv     |             | P        |          | N        |          | Klemmhalter<br>Toolholder  |
|--------------------|-------------|-------------|----------|----------|----------|----------|----------------------------|
|                    | DTS Code    | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |                            |
|                    |             |             |          |          |          |          |                            |
| CCGT 06 02 02 L-GS | DP1020-0058 | DP2020-0058 |          |          |          |          | SCLCL...06<br>A...SCLCL.06 |
| CCGT 06 02 04 L-GS | DP1020-0045 | DP2020-0045 |          |          |          |          |                            |
| CCGT 06 02 08 L-GS | DP1020-0046 | DP2020-0046 |          |          |          |          |                            |
| CCGT 09 T3 04 L-GS | DP1020-0059 | DP2020-0059 |          |          |          |          | SCLCL...06<br>A...SCLCL.06 |
| CCGT 09 T3 08 L-GS | DP1020-0047 | DP2020-0047 |          |          |          |          |                            |
| CCGT 09 T3 12 L-GS | DP1020-0048 | DP2020-0048 |          |          |          |          |                            |
| CCGT 12 04 04 L-GS | DP1020-0060 | DP2020-0060 |          |          |          |          | SCLCL...06<br>A...SCLCL.06 |
| CCGT 12 04 08 L-GS | DP1020-0049 | DP2020-0049 |          |          |          |          |                            |

| ISO-Code            | Neutral     |             | P           |             | N           |             | Klemmhalter<br>Toolholder |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
|                     | DTS Code    |                           |
|                     |             |             |             |             |             |             |                           |
| CCGW 06 02 01       |             | DP2010-0591 |             |             |             |             |                           |
| CCGW 06 02 02       | DP1010-0021 | DP2010-0021 | DP1011-0001 | DP2011-0001 | DP1012-0001 | DP2012-0001 | SCLC...06<br>A...SCLC.06  |
| CCGW 06 02 04       | DP1010-0022 | DP2010-0022 | DP1011-0002 | DP2011-0002 | DP1012-0002 | DP2012-0002 |                           |
| CCGW 06 02 08       | DP1010-0023 | DP2010-0023 | DP1011-0003 | DP2011-0003 | DP1012-0003 | DP2012-0003 |                           |
| CCGW 09 T3 02       | DP1010-0024 | DP2010-0024 | DP1011-0004 | DP2011-0004 | DP1012-0004 | DP2012-0004 |                           |
| CCGW 09 T3 04       | DP1010-0025 | DP2010-0025 | DP1011-0005 | DP2011-0005 | DP1012-0005 | DP2012-0005 | SCLC...09<br>A...SCLC.09  |
| CCGW 09 T3 08       | DP1010-0026 | DP2010-0026 | DP1011-0006 | DP2011-0006 | DP1012-0006 | DP2012-0006 |                           |
| CCGW 09 T3 12       | DP1010-0027 | DP2010-0027 | DP1011-0007 | DP2011-0007 | DP1012-0007 | DP2012-0007 |                           |
| CCGW 12 04 02       | DP1010-0700 | DP2010-0129 | DP1011-0458 | DP2011-0458 | DP1012-0458 | DP2012-0458 |                           |
| CCGW 12 04 04       | DP1010-0028 | DP2010-0028 | DP1011-0008 | DP2011-0008 | DP1012-0008 | DP2012-0008 | SCLC...12<br>A...SCLC.12  |
| CCGW 12 04 08       | DP1010-0029 | DP2010-0029 | DP1011-0009 | DP2011-0009 | DP1012-0009 | DP2012-0009 |                           |
| CCGW 12 04 12       | DP1010-0030 | DP2010-0030 | DP1011-0010 | DP2011-0010 | DP1012-0010 | DP2012-0010 |                           |
| CCGW 06 02 02 R/L-W | DP1010-0031 | DP2010-0031 | DP1011-0011 | DP2011-0011 | DP1012-0011 | DP2012-0011 | SCLC...06<br>A...SCLC.06  |
| CCGW 06 02 04 R/L-W | DP1010-0032 | DP2010-0032 | DP1011-0012 | DP2011-0012 | DP1012-0012 | DP2012-0012 |                           |
| CCGW 09 T3 02 R/L-W | DP1010-0034 | DP2010-0034 | DP1011-0014 | DP2011-0014 | DP1012-0014 | DP2012-0014 |                           |
| CCGW 09 T3 04 R/L-W | DP1010-0035 | DP2010-0035 | DP1011-0015 | DP2011-0015 | DP1012-0015 | DP2012-0015 | SCLC...09<br>A...SCLC.09  |
| CCGW 09 T3 08 R/L-W | DP1010-0036 | DP2010-0036 | DP1011-0016 | DP2011-0016 | DP1012-0016 | DP2012-0016 |                           |
| CCGW 12 04 02 R/L-W | DP1010-0038 | DP2010-0038 | DP1011-0018 | DP2011-0018 | DP1012-0018 | DP2012-0018 |                           |
| CCGW 12 04 04 R/L-W | DP1010-0039 | DP2010-0039 | DP1011-0019 | DP2011-0019 | DP1012-0019 | DP2012-0019 | SCLC...12<br>A...SCLC.12  |
| CCGW 12 04 08 R/L-W | DP1010-0040 | DP2010-0040 | DP1011-0020 | DP2011-0020 | DP1012-0020 | DP2012-0020 |                           |

- Aluminium-Knetlegierung  
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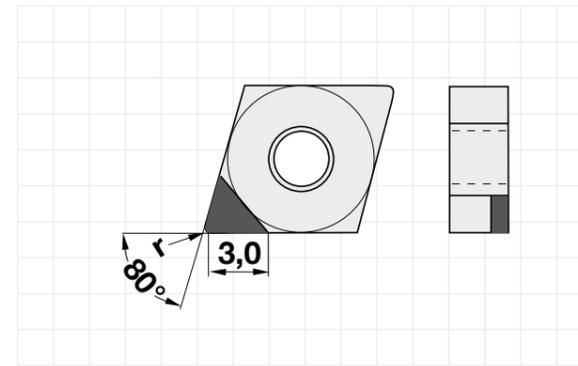
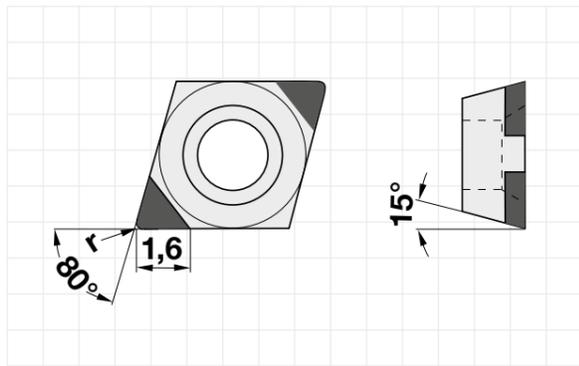
| ISO-Code                  | Neutral            |             | P                             |             | N                             |             | Klemmhalter<br>Toolholder  |
|---------------------------|--------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|----------------------------|
|                           | DTS Code           | DTS Code    | DTS Code                      | DTS Code    | DTS Code                      | DTS Code    |                            |
|                           | Neutral<br>Neutral |             | Spanleitstufe<br>Chip breaker |             | Spanleitstufe<br>Chip breaker |             |                            |
| <b>CCGW 06 02 02 R-GS</b> | DP1020-0061        | DP2020-0061 | DP1021-0032                   | DP2021-0032 | DP1022-0032                   | DP2022-0032 | SCLCR...06<br>A...SCLCR.06 |
| <b>CCGW 06 02 04 R-GS</b> | DP1020-0006        | DP2020-0006 | DP1021-0001                   | DP2021-0001 | DP1022-0001                   | DP2022-0001 |                            |
| <b>CCGW 06 02 08 R-GS</b> | DP1020-0007        | DP2020-0007 | DP1021-0002                   | DP2021-0002 | DP1022-0002                   | DP2022-0002 |                            |
| <b>CCGW 09 T3 04 R-GS</b> | DP1020-0062        | DP2020-0062 | DP1021-0033                   | DP2021-0033 | DP1022-0033                   | DP2022-0033 | SCLCR...09<br>A...SCLCR.09 |
| <b>CCGW 09 T3 08 R-GS</b> | DP1020-0008        | DP2020-0008 | DP1021-0003                   | DP2021-0003 | DP1022-0003                   | DP2022-0003 |                            |
| <b>CCGW 09 T3 12 R-GS</b> | DP1020-0009        | DP2020-0009 | DP1021-0004                   | DP2021-0004 | DP1022-0004                   | DP2022-0004 |                            |
| <b>CCGW 12 04 04 R-GS</b> | DP1020-0063        | DP2020-0063 | DP1021-0034                   | DP2021-0034 | DP1022-0034                   | DP2022-0034 | SCLCR...12<br>A...SCLCR.12 |
| <b>CCGW 12 04 08 R-GS</b> | DP1020-0010        | DP2020-0010 | DP1021-0005                   | DP2021-0005 | DP1022-0005                   | DP2022-0005 |                            |

| ISO-Code                  | Neutral            |             | P                             |             | N                             |             | Klemmhalter<br>Toolholder  |
|---------------------------|--------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|----------------------------|
|                           | DTS Code           | DTS Code    | DTS Code                      | DTS Code    | DTS Code                      | DTS Code    |                            |
|                           | Neutral<br>Neutral |             | Spanleitstufe<br>Chip breaker |             | Spanleitstufe<br>Chip breaker |             |                            |
| <b>CCGW 06 02 02 L-GS</b> | DP1020-0064        | DP2020-0064 | DP1021-0035                   | DP2021-0035 | DP1022-0035                   | DP2022-0035 | SCLCL...06<br>A...SCLCL.06 |
| <b>CCGW 06 02 04 L-GS</b> | DP1020-0050        | DP2020-0050 | DP1021-0031                   | DP2021-0031 | DP1022-0031                   | DP2022-0031 |                            |
| <b>CCGW 06 02 08 L-GS</b> | DP1020-0051        | DP2020-0051 | DP1021-0027                   | DP2021-0027 | DP1022-0027                   | DP2022-0027 |                            |
| <b>CCGW 09 T3 04 L-GS</b> | DP1020-0065        | DP2020-0065 | DP1021-0036                   | DP2021-0036 | DP1022-0036                   | DP2022-0036 | SCLCL...09<br>A...SCLCL.09 |
| <b>CCGW 09 T3 08 L-GS</b> | DP1020-0052        | DP2020-0052 | DP1021-0028                   | DP2021-0028 | DP1022-0028                   | DP2022-0028 |                            |
| <b>CCGW 09 T3 12 L-GS</b> | DP1020-0053        | DP2020-0053 | DP1021-0029                   | DP2021-0029 | DP1022-0029                   | DP2022-0029 |                            |
| <b>CCGW 12 04 04 L-GS</b> | DP1020-0066        | DP2020-0066 | DP1021-0037                   | DP2021-0037 | DP1022-0037                   | DP2022-0037 | SCLCL...06<br>A...SCLCL.06 |
| <b>CCGW 12 04 08 L-GS</b> | DP1020-0054        | DP2020-0054 | DP1021-0030                   | DP2021-0030 | DP1022-0030                   | DP2022-0030 |                            |

● Aluminium-Knetlegierung  
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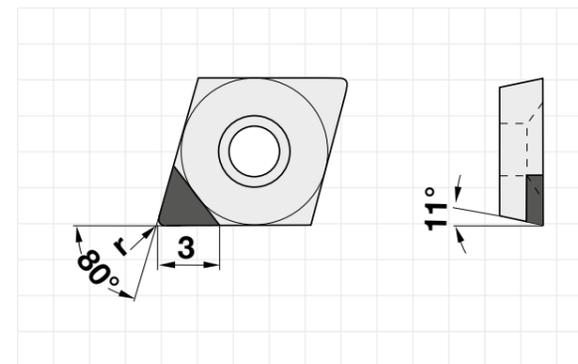
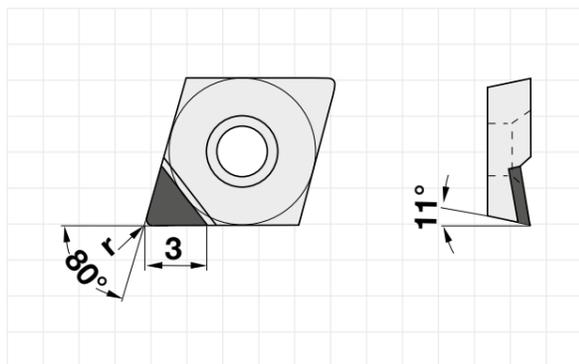
| ISO-Code      | Neutral  |             | P        |          | N        |          | Klemmhalter<br>Toolholder |
|---------------|----------|-------------|----------|----------|----------|----------|---------------------------|
|               | DTS Code | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |                           |
| CDGW 04 01 01 |          | DP2010-0511 |          |          |          |          | E... SCLDR/L 04           |
| CDGW 04 01 02 |          | DP2010-0512 |          |          |          |          |                           |
| CDGW 04 01 04 |          | DP2010-0513 |          |          |          |          |                           |

| ISO-Code      | Neutral  |             | P        |          | N        |          | Klemmhalter<br>Toolholder         |
|---------------|----------|-------------|----------|----------|----------|----------|-----------------------------------|
|               | DTS Code | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |                                   |
| CNGA 12 04 04 |          | DP2010-0173 |          |          |          |          | DCLN./<br>MCLN..12<br>A...PCLN.12 |
| CNGA 12 04 08 |          | DP2010-0174 |          |          |          |          |                                   |
| CNGA 12 04 12 |          | DP2010-0175 |          |          |          |          |                                   |

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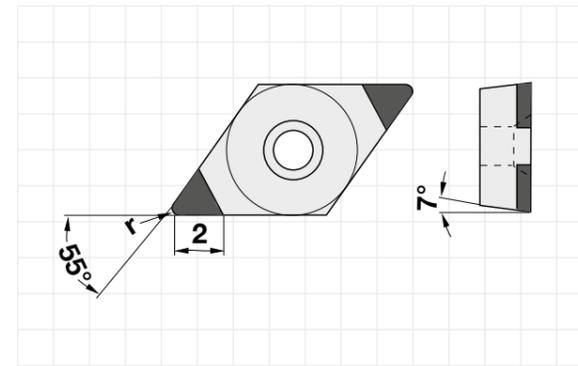
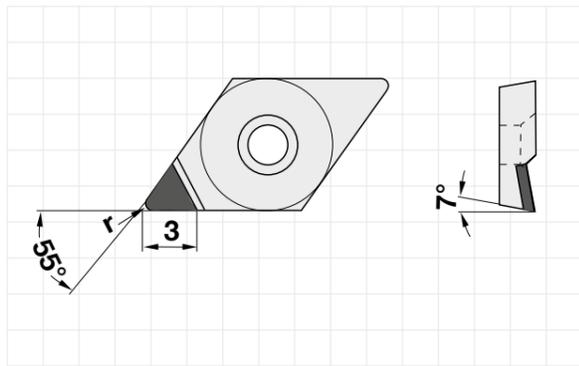
| ISO-Code      | Positiv     |             | P        |          | N        |          | Klemmhalter<br>Toolholder |
|---------------|-------------|-------------|----------|----------|----------|----------|---------------------------|
|               | DTS Code    | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |                           |
|               |             |             |          |          |          |          |                           |
| CPGT 06 02 02 | DP1010-0201 | DP2010-0201 |          |          |          |          | SCLP...06<br>A...SCUP.06  |
| CPGT 06 02 04 | DP1010-0202 | DP2010-0202 |          |          |          |          |                           |
| CPGT 06 02 08 | DP1010-0203 | DP2010-0203 |          |          |          |          |                           |

| ISO-Code      | Neutral     |             | P           |             | N           |             | Klemmhalter<br>Toolholder |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
|               | DTS Code    |                           |
|               |             |             |             |             |             |             |                           |
| CPGW 06 02 01 |             | DP2010-0595 |             |             |             |             | SCLP...06<br>A...SCUP.06  |
| CPGW 06 02 02 | DP1010-0251 | DP2010-0251 | DP1011-0251 | DP2011-0251 | DP1012-0251 | DP2012-0251 |                           |
| CPGW 06 02 04 | DP1010-0252 | DP2010-0252 | DP1011-0252 | DP2011-0252 | DP1012-0252 | DP2012-0252 |                           |
| CPGW 06 02 08 | DP1010-0253 | DP2010-0253 | DP1011-0253 | DP2011-0253 | DP1012-0253 | DP2012-0253 |                           |
| CPGW 09 T3 01 |             | DP2010-0596 |             |             |             |             | SCLP...09<br>A...SCUP.09  |
| CPGW 09 T3 02 | DP1010-0254 | DP2010-0254 | DP1011-0254 | DP2011-0254 | DP1012-0254 | DP2012-0254 |                           |
| CPGW 09 T3 04 | DP1010-0255 | DP2010-0255 | DP1011-0255 | DP2011-0255 | DP1012-0255 | DP2012-0255 |                           |
| CPGW 09 T3 08 | DP1010-0256 | DP2010-0256 | DP1011-0256 | DP2011-0256 | DP1012-0256 | DP2012-0256 |                           |
| CPGW 12 04 04 | DP1010-0257 | DP2010-0257 | DP1011-0257 | DP2011-0257 | DP1012-0257 | DP2012-0257 | SCLP...12<br>A...SCUP.12  |
| CPGW 12 04 08 | DP1010-0258 | DP2010-0258 | DP1011-0258 | DP2011-0258 | DP1012-0258 | DP2012-0258 |                           |
| CPGW 12 04 12 | DP1010-0259 | DP2010-0259 | DP1011-0259 | DP2011-0259 | DP1012-0259 | DP2012-0259 |                           |

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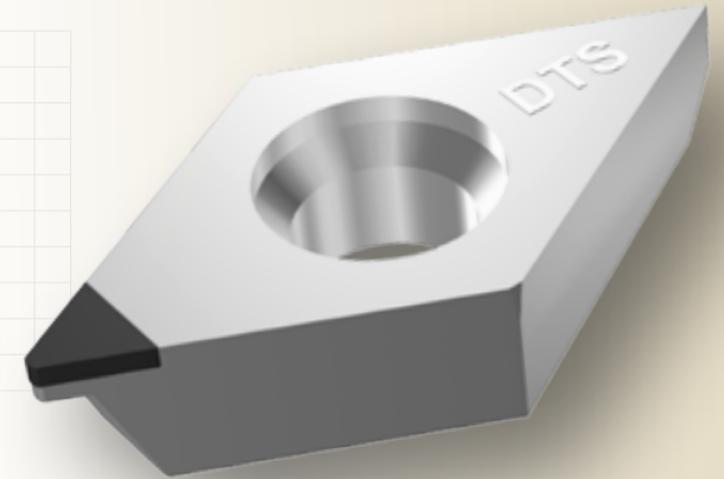
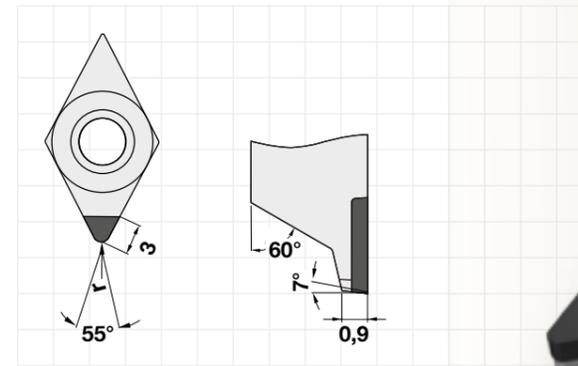
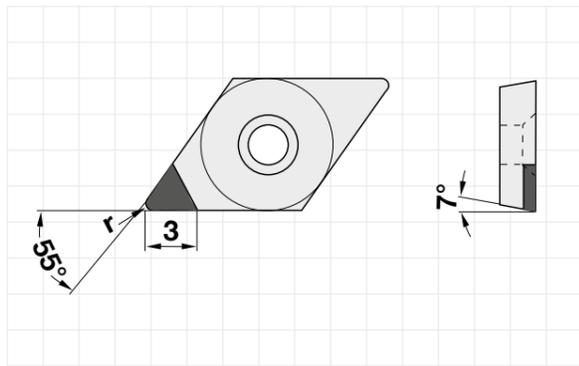


|                   |              | Positiv             |             | P                             |          | N                             |          | Klemmhalter<br>Toolholder                  |
|-------------------|--------------|---------------------|-------------|-------------------------------|----------|-------------------------------|----------|--|
|                   |              | Positiv<br>Positive |             | Spanleitstufe<br>Chip breaker |          | Spanleitstufe<br>Chip breaker |          |  |
|                   |              |                     |             |                               |          |                               |          |  |
|                   |              | PKD<br>PCD          |             | PKD<br>PCD                    |          | PKD<br>PCD                    |          |  |
|                   |              | CVD                 |             | CVD                           |          | CVD                           |          |  |
| ISO-Code          | DTS Code     | DTS Code            | DTS Code    | DTS Code                      | DTS Code | DTS Code                      | DTS Code |  |
| Standard          | DCGT 0702 01 | DP1010-0601         | DP2010-0601 |                               |          |                               |          | SDJC..07<br>A...SDUC. /<br>A/E... SDQC. 07 |
|                   | DCGT 0702 02 | DP1010-0042         | DP2010-0042 |                               |          |                               |          |  |
|                   | DCGT 0702 04 | DP1010-0043         | DP2010-0043 |                               |          |                               |          |  |
|                   | DCGT 0702 08 | DP1010-0044         | DP2010-0044 |                               |          |                               |          |  |
|                   | DCGT 11T3 01 | DP1010-0602         | DP2010-0602 |                               |          |                               |          |  |
|                   | DCGT 11T3 02 | DP1010-0045         | DP2010-0045 |                               |          |                               |          | SDJC..11<br>A...SDUC. /<br>A/E... SDQC. 11 |
|                   | DCGT 11T3 04 | DP1010-0046         | DP2010-0046 |                               |          |                               |          |  |
|                   | DCGT 11T3 08 | DP1010-0047         | DP2010-0047 |                               |          |                               |          |  |
|                   | DCGT 11T3 12 | DP1010-0048         | DP2010-0048 |                               |          |                               |          |  |
|                   | Wiper        | DCGT 070202 R/L-W   | DP1010-0049 | DP2010-0049                   |          |                               |          |  |
| DCGT 070204 R/L-W |              | DP1010-0050         | DP2010-0050 |                               |          |                               |          |  |
| DCGT 070208 R/L-W |              | DP1010-0051         | DP2010-0051 |                               |          |                               |          |  |
| DCGT 11T302 R/L-W |              | DP1010-0052         | DP2010-0052 |                               |          |                               |          | SDJC..11<br>A...SDUC.11                    |
| DCGT 11T304 R/L-W |              | DP1010-0053         | DP2010-0053 |                               |          |                               |          |  |
| DCGT 11T308 R/L-W | DP1010-0054  | DP2010-0054         |             |                               |          |                               |          |  |

|             |          | Positiv             |          | P                             |          | N                             |          | Klemmhalter<br>Toolholder |
|-------------|----------|---------------------|----------|-------------------------------|----------|-------------------------------|----------|---------------------------|
|             |          | Positiv<br>Positive |          | Spanleitstufe<br>Chip breaker |          | Spanleitstufe<br>Chip breaker |          |                           |
|             |          |                     |          |                               |          |                               |          |                           |
|             |          | PKD<br>PCD          |          | PKD<br>PCD                    |          | PKD<br>PCD                    |          |                           |
|             |          | CVD                 |          | CVD                           |          | CVD                           |          |                           |
| ISO-Code    | DTS Code | DTS Code            | DTS Code | DTS Code                      | DTS Code | DTS Code                      | DTS Code |                           |
| DCGW 04T001 |          | DP2010-0521         |          |                               |          |                               |          | E... SDUCR/L 04           |
| DCGW 04T002 |          | DP2010-0522         |          |                               |          |                               |          |                           |
| DCGW 04T004 |          | DP2010-0523         |          |                               |          |                               |          |                           |

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|                   | Neutral            |                               | P                             |                               | N                             |                               | Klemmhalter<br>Toolholder |
|-------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|
|                   | Neutral<br>Neutral | Spanleitstufe<br>Chip breaker |                           |
|                   | PKD<br>PCD         | CVD                           | PKD<br>PCD                    | CVD                           | PKD<br>PCD                    | CVD                           |                           |
| ISO-Code          | DTS Code           | DTS Code                      | DTS Code                      | DTS Code                      | DTS Code                      | DTS Code                      |                           |
| Standard          | DCGW 070201        | DP1010-0603                   | DP2010-0603                   |                               |                               |                               |                           |
|                   | DCGW 070202        | DP1010-0056                   | DP2010-0056                   | DP1011-0022                   | DP2011-0022                   | DP1012-0022                   | DP2012-0022               |
|                   | DCGW 070204        | DP1010-0057                   | DP2010-0057                   | DP1011-0023                   | DP2011-0023                   | DP1012-0023                   | DP2012-0023               |
|                   | DCGW 070208        | DP1010-0058                   | DP2010-0058                   | DP1011-0024                   | DP2011-0024                   | DP1012-0024                   | DP2012-0024               |
|                   | DCGW 11T301        | DP1010-0604                   | DP2010-0604                   |                               |                               |                               |                           |
|                   | DCGW 11T302        | DP1010-0059                   | DP2010-0059                   | DP1011-0025                   | DP2011-0025                   | DP1012-0025                   | DP2012-0025               |
|                   | DCGW 11T304        | DP1010-0060                   | DP2010-0060                   | DP1011-0026                   | DP2011-0026                   | DP1012-0026                   | DP2012-0026               |
|                   | DCGW 11T308        | DP1010-0061                   | DP2010-0061                   | DP1011-0027                   | DP2011-0027                   | DP1012-0027                   | DP2012-0027               |
|                   | DCGW 11T312        | DP1010-0062                   | DP2010-0062                   | DP1011-0028                   | DP2011-0028                   | DP1012-0028                   | DP2012-0028               |
|                   | DCGW 11T308        | DP1010-0062                   | DP2010-0062                   | DP1011-0028                   | DP2011-0028                   | DP1012-0028                   | DP2012-0028               |
| Wiper             | DCGW 070202 R/L-W  | DP1010-0063                   | DP2010-0063                   | DP1011-0029                   | DP2011-0029                   | DP1012-0029                   | DP2012-0029               |
|                   | DCGW 070204 R/L-W  | DP1010-0064                   | DP2010-0064                   | DP1011-0030                   | DP2011-0030                   | DP1012-0030                   | DP2012-0030               |
|                   | DCGW 070208 R/L-W  | DP1010-0128                   | DP2010-0130                   | DP1011-0071                   | DP2011-0072                   | DP1012-0071                   | DP2012-0072               |
|                   | DCGW 11T302 R/L-W  | DP1010-0065                   | DP2010-0065                   | DP1011-0031                   | DP2011-0031                   | DP1012-0031                   | DP2012-0031               |
|                   | DCGW 11T304 R/L-W  | DP1010-0066                   | DP2010-0066                   | DP1011-0032                   | DP2011-0032                   | DP1012-0032                   | DP2012-0032               |
| DCGW 11T308 R/L-W | DP1010-0129        | DP2010-0131                   | DP1011-0072                   | DP2011-0073                   | DP1012-0072                   | DP2012-0073                   |                           |

|             | Neutral            |                               | P                             |                               | N                             |                               | Klemmhalter<br>Toolholder |
|-------------|--------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|
|             | Neutral<br>Neutral | Spanleitstufe<br>Chip breaker |                           |
|             | PKD<br>PCD         | CVD                           | PKD<br>PCD                    | CVD                           | PKD<br>PCD                    | CVD                           |                           |
| ISO-Code    | DTS Code           | DTS Code                      | DTS Code                      | DTS Code                      | DTS Code                      | DTS Code                      |                           |
| DXGW 11T301 |                    | DP2010-0300                   |                               |                               |                               |                               |                           |
| DXGW 11T302 |                    | DP2010-0301                   |                               |                               |                               |                               | SDJC.. / SDNXN 11         |
| DXGW 11T304 |                    | DP2010-0302                   |                               |                               |                               |                               | A...SDUX. /               |
| DXGW 11T308 |                    | DP2010-0303                   |                               |                               |                               |                               | SDQX.11                   |

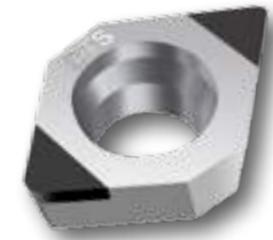
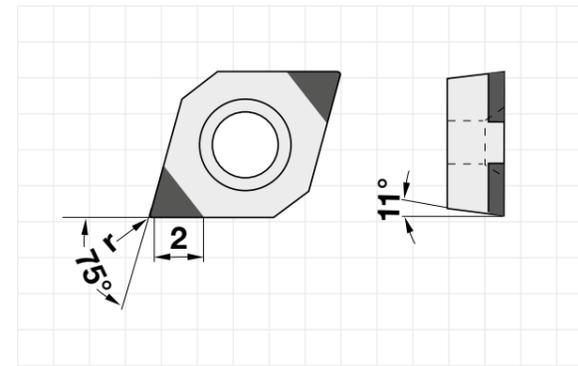
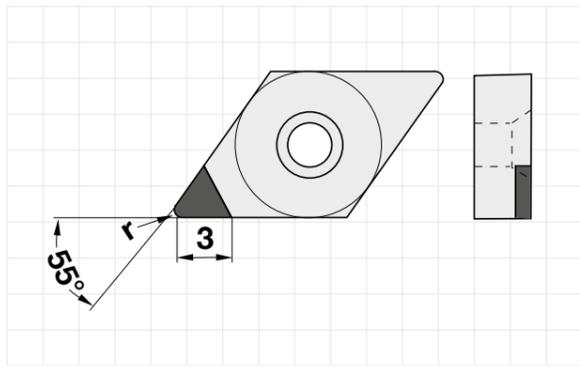


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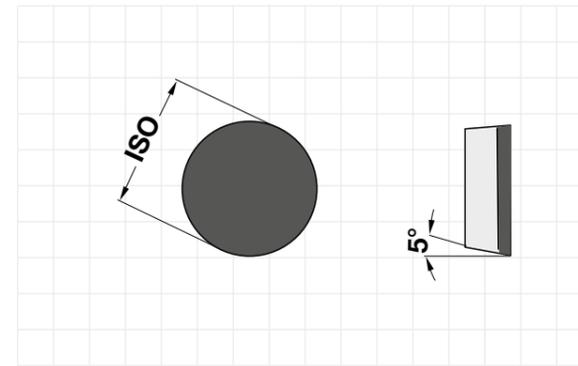
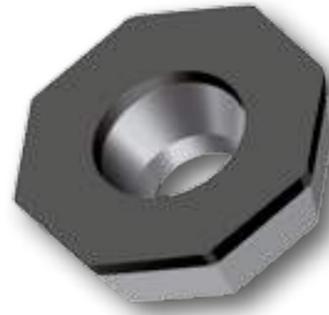
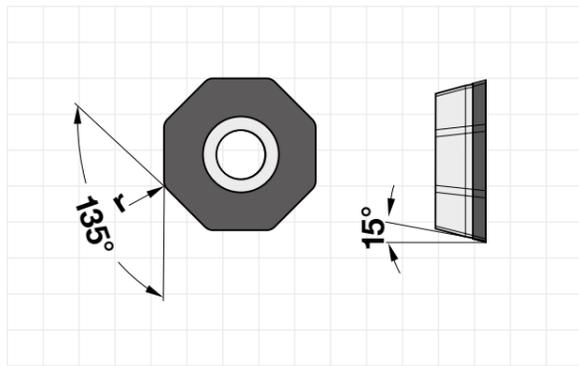


| ISO-Code     | Neutral            |             | P                             |          | N                             |          | Klemmhalter<br>Toolholder |
|--------------|--------------------|-------------|-------------------------------|----------|-------------------------------|----------|---------------------------|
|              | DTS Code           | DTS Code    | DTS Code                      | DTS Code | DTS Code                      | DTS Code |                           |
|              | Neutral<br>Neutral |             | Spanleitstufe<br>Chip breaker |          | Spanleitstufe<br>Chip breaker |          |                           |
|              |                    |             |                               |          |                               |          |                           |
|              | PKD<br>PCD         |             | PKD<br>PCD                    |          | PKD<br>PCD                    |          |                           |
|              | CVD                |             | CVD                           |          | CVD                           |          |                           |
| DNGA 1506 02 |                    | DP2010-0282 |                               |          |                               |          | DDJN./<br>MDJN..15(06)    |
| DNGA 1506 04 |                    | DP2010-0283 |                               |          |                               |          |                           |
| DNGA 1506 08 |                    | DP2010-0284 |                               |          |                               |          |                           |

| ISO-Code     | Neutral            |             | P                             |          | N                             |          | Klemmhalter<br>Toolholder |
|--------------|--------------------|-------------|-------------------------------|----------|-------------------------------|----------|---------------------------|
|              | DTS Code           | DTS Code    | DTS Code                      | DTS Code | DTS Code                      | DTS Code |                           |
|              | Neutral<br>Neutral |             | Spanleitstufe<br>Chip breaker |          | Spanleitstufe<br>Chip breaker |          |                           |
|              |                    |             |                               |          |                               |          |                           |
|              | PKD<br>PCD         |             | PKD<br>PCD                    |          | PKD<br>PCD                    |          |                           |
|              | CVD                |             | CVD                           |          | CVD                           |          |                           |
| EPGW 0502 01 |                    | DP2010-0531 |                               |          |                               |          | E... SELP. 05             |
| EPGW 0502 02 |                    | DP2010-0532 |                               |          |                               |          |                           |
| EPGW 0502 04 |                    | DP2010-0533 |                               |          |                               |          |                           |

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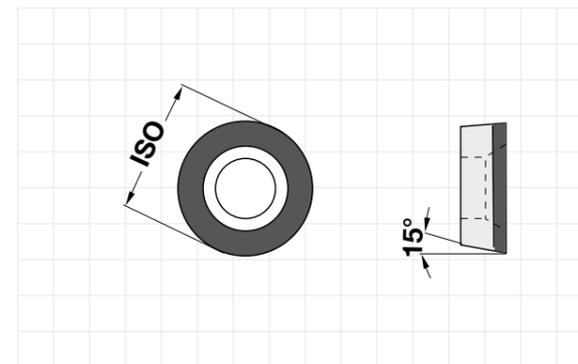
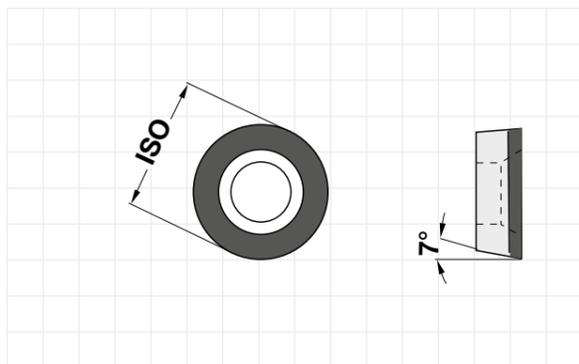


|                 | Neutral            |             | P                             |          | N                             |          |                           |
|-----------------|--------------------|-------------|-------------------------------|----------|-------------------------------|----------|---------------------------|
|                 | Neutral<br>Neutral |             | Spanleitstufe<br>Chip breaker |          | Spanleitstufe<br>Chip breaker |          |                           |
|                 |                    |             |                               |          |                               |          |                           |
|                 |                    |             |                               |          |                               |          |                           |
| ISO-Code        | DTS Code           | DTS Code    | DTS Code                      | DTS Code | DTS Code                      | DTS Code | Klemmhalter<br>Toolholder |
| ODGW 05 T302-FF | MI1030-0100        | MI2030-0100 |                               |          |                               |          | SOXDR/L ...05             |
| ODGW 05 T304-FF | MI1030-0102        | MI2030-0102 |                               |          |                               |          |                           |
| ODGW 05 T308-FF | MI1030-0104        | MI2030-0104 |                               |          |                               |          |                           |

|                  | Neutral            |             | P                             |          | N                             |          |                           |
|------------------|--------------------|-------------|-------------------------------|----------|-------------------------------|----------|---------------------------|
|                  | Neutral<br>Neutral |             | Spanleitstufe<br>Chip breaker |          | Spanleitstufe<br>Chip breaker |          |                           |
|                  |                    |             |                               |          |                               |          |                           |
|                  |                    |             |                               |          |                               |          |                           |
| ISO-Code         | DTS Code           | DTS Code    | DTS Code                      | DTS Code | DTS Code                      | DTS Code | Klemmhalter<br>Toolholder |
| RBGN 06 02 M0-FF | DP1030-0090        | DP2030-0090 |                               |          |                               |          | CRDBN /<br>CRSBR/L ...06  |
| RBGN 08 03 M0-FF | DP1030-0092        | DP2030-0092 |                               |          |                               |          | CRDBN /<br>CRSBR/L ...08  |
| RBGN 10 03 M0-FF | DP1030-0094        | DP2030-0094 |                               |          |                               |          | CRDBN /<br>CRSBR/L ...10  |
| RBGN 12 03 M0-FF | DP1030-0096        | DP2030-0096 |                               |          |                               |          | CRDBN /<br>CRSBR/L ...12  |

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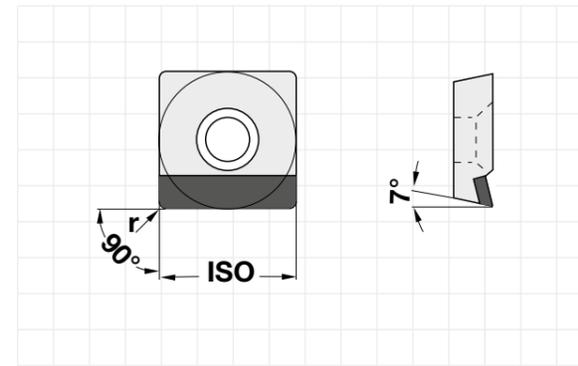
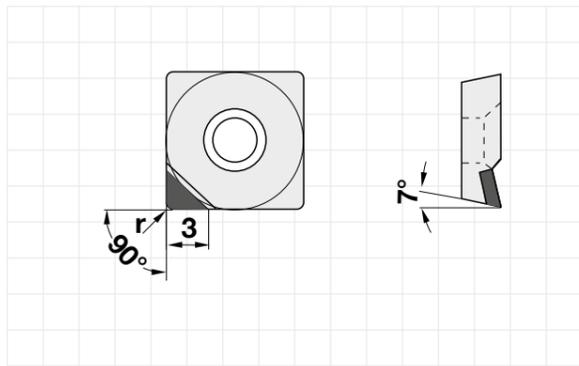
| ISO-Code                | Neutral            |                               | P                             |                               | N                             |                               | Klemmhalter<br>Toolholder                |
|-------------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--|
|                         | Neutral<br>Neutral | Spanleitstufe<br>Chip breaker |  |
| <b>RCGW 06 02 M0-FF</b> | DP1030-0001        | DP2030-0001                   | DP1031-0001                   | DP2031-0001                   | DP1032-0001                   | DP2032-0001                   | SRDCN /<br>SRGC...06<br>E...SRLC.06      |
| <b>RCGW 08 03 M0-FF</b> | DP1030-0002        | DP2030-0002                   | DP1031-0002                   | DP2031-0002                   | DP1032-0002                   | DP2032-0002                   | SRDCN. /<br>SRGC...08                    |
| <b>RCGW 10 03 M0-FF</b> | DP1030-0003        | DP2030-0003                   | DP1031-0003                   | DP2031-0003                   | DP1032-0003                   | DP2032-0003                   | SRDCN. /<br>SRGC...1003<br>E...SRLC.1003 |
| <b>RCGW 10 T3 M0-FF</b> | DP1030-0004        | DP2030-0004                   | DP1031-0004                   | DP2031-0004                   | DP1032-0004                   | DP2032-0004                   | SRDCN. / SR-<br>GC...10T3                |
| <b>RCGW 12 04 M0-FF</b> | DP1030-0005        | DP2030-0005                   | DP1031-0005                   | DP2031-0005                   | DP1032-0005                   | DP2032-0005                   | SRDCN. /<br>SRGC...12                    |

| ISO-Code                | Neutral            |                               | P                             |                               | N                             |                               | Klemmhalter<br>Toolholder |
|-------------------------|--------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------|
|                         | Neutral<br>Neutral | Spanleitstufe<br>Chip breaker |                           |
| <b>RDHX 05 01 M0-FF</b> | DP1030-0006        | DP2030-0006                   | DP1031-0006                   | DP2031-0006                   | DP1032-0006                   | DP2032-0006                   |                           |
| <b>RDHX 07 02 M0-FF</b> | DP1030-0007        | DP2030-0007                   | DP1031-0007                   | DP2031-0007                   | DP1032-0007                   | DP2032-0007                   |                           |
| <b>RDHX 10 03 M0-FF</b> | DP1030-0008        | DP2030-0008                   | DP1031-0008                   | DP2031-0008                   | DP1032-0008                   | DP2032-0008                   |                           |
| <b>RDHX 12 T3 M0-FF</b> | DP1030-0009        | DP2030-0009                   | DP1031-0009                   | DP2031-0009                   | DP1032-0009                   | DP2032-0009                   |                           |

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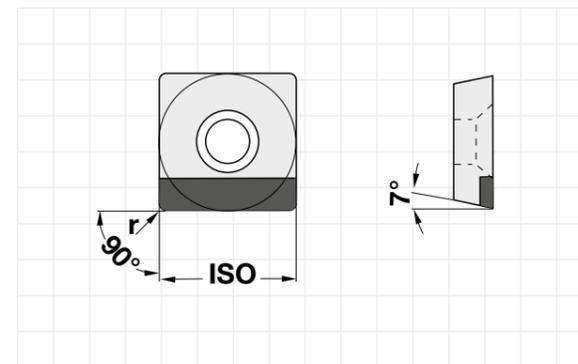
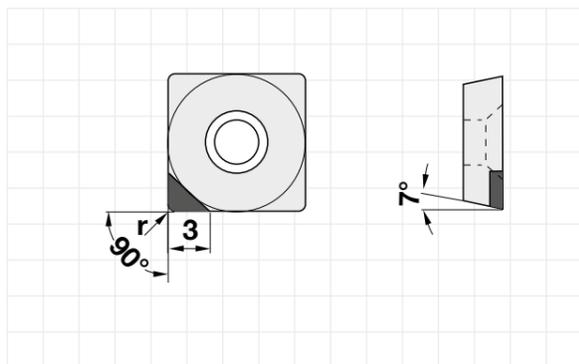
| ISO-Code      | Positiv     |             | P        |          | N        |          | Klemmhalter<br>Toolholder |
|---------------|-------------|-------------|----------|----------|----------|----------|---------------------------|
|               | DTS Code    | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |                           |
|               |             |             |          |          |          |          |                           |
| SCGT 09 T3 02 | DP1010-0067 | DP2010-0067 |          |          |          |          |                           |
| SCGT 09 T3 04 | DP1010-0068 | DP2010-0068 |          |          |          |          | SSSC. /<br>SSDCN....09    |
| SCGT 09 T3 08 | DP1010-0069 | DP2010-0069 |          |          |          |          |                           |
| SCGT 09 T3 12 | DP1010-0070 | DP2010-0070 |          |          |          |          |                           |
| SCGT 12 04 04 | DP1010-0130 | DP2010-0132 |          |          |          |          |                           |
| SCGT 12 04 08 | DP1010-0071 | DP2010-0071 |          |          |          |          | SSSC. /<br>SSDCN....12    |
| SCGT 12 04 12 | DP1010-0072 | DP2010-0072 |          |          |          |          |                           |

| ISO-Code         | Positiv     |             | P        |          | N        |          | Klemmhalter<br>Toolholder |
|------------------|-------------|-------------|----------|----------|----------|----------|---------------------------|
|                  | DTS Code    | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |                           |
|                  |             |             |          |          |          |          |                           |
| SCGT 09 T3 04-GS | DP1020-0067 | DP2020-0067 |          |          |          |          |                           |
| SCGT 09 T3 08-GS | DP1020-0011 | DP2020-0011 |          |          |          |          | SSDCN....09               |
| SCGT 09 T3 12-GS | DP1020-0012 | DP2020-0012 |          |          |          |          |                           |
| SCGT 12 04 04-GS | DP1020-0068 | DP2020-0068 |          |          |          |          |                           |
| SCGT 12 04 08-GS | DP1020-0013 | DP2020-0013 |          |          |          |          | SSDCN....12               |
| SCGT 12 04 12-GS | DP1020-0014 | DP2020-0014 |          |          |          |          |                           |

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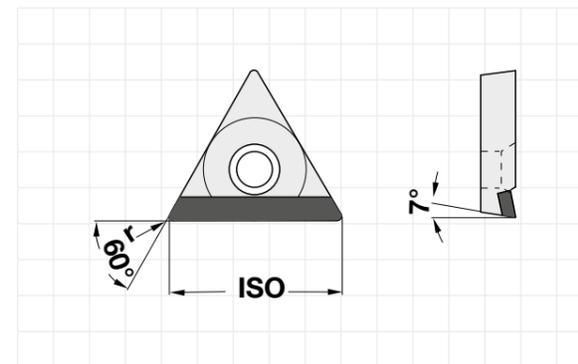
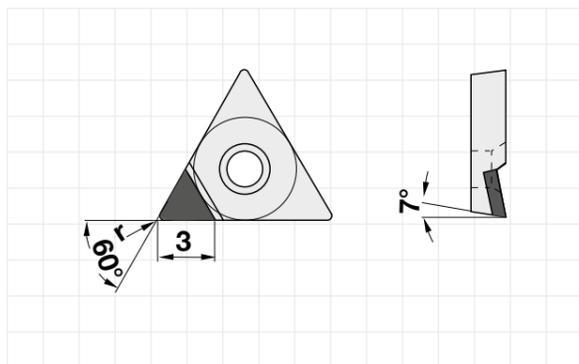
| ISO-Code            | Neutral     |             | P           |             | N           |             | Klemmhalter<br>Toolholder |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
|                     | DTS Code    |                           |
| <b>SCGW 09 T302</b> | DP1010-0073 | DP2010-0073 | DP1011-0033 | DP2011-0033 | DP1012-0033 | DP2012-0033 | SSSC. /<br>SSDCN....09    |
| <b>SCGW 09 T304</b> | DP1010-0074 | DP2010-0074 | DP1011-0034 | DP2011-0034 | DP1012-0034 | DP2012-0034 |                           |
| <b>SCGW 09 T308</b> | DP1010-0075 | DP2010-0075 | DP1011-0035 | DP2011-0035 | DP1012-0035 | DP2012-0035 |                           |
| <b>SCGW 09 T312</b> | DP1010-0076 | DP2010-0076 | DP1011-0036 | DP2011-0036 | DP1012-0036 | DP2012-0036 |                           |
| <b>SCGW 1204 04</b> | DP1010-0077 | DP2010-0077 | DP1011-0037 | DP2011-0037 | DP1012-0037 | DP2012-0037 | SSSC. /<br>SSDCN....12    |
| <b>SCGW 1204 08</b> | DP1010-0078 | DP2010-0078 | DP1011-0038 | DP2011-0038 | DP1012-0038 | DP2012-0038 |                           |
| <b>SCGW 1204 12</b> | DP1010-0079 | DP2010-0079 | DP1011-0039 | DP2011-0039 | DP1012-0039 | DP2012-0039 |                           |

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|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
|                        | DTS Code    |                           |
| <b>SCGW 09 T304-GS</b> | DP1020-0015 | DP2020-0015 | DP1021-0006 | DP2021-0006 | DP1022-0006 | DP2022-0006 | SSDCN....09               |
| <b>SCGW 09 T308-GS</b> | DP1020-0016 | DP2020-0016 | DP1021-0007 | DP2021-0007 | DP1022-0007 | DP2022-0007 |                           |
| <b>SCGW 09 T312-GS</b> | DP1020-0017 | DP2020-0017 | DP1021-0008 | DP2021-0008 | DP1022-0008 | DP2022-0008 |                           |
| <b>SCGW 1204 04-GS</b> | DP1020-0018 | DP2020-0018 | DP1021-0009 | DP2021-0009 | DP1022-0009 | DP2022-0009 |                           |
| <b>SCGW 1204 08-GS</b> | DP1020-0019 | DP2020-0019 | DP1021-0010 | DP2021-0010 | DP1022-0010 | DP2022-0010 | SSDCN....12               |
| <b>SCGW 1204 12-GS</b> | DP1020-0020 | DP2020-0020 | DP1021-0011 | DP2021-0011 | DP1022-0011 | DP2022-0011 |                           |

● Aluminium-Knetlegierung  
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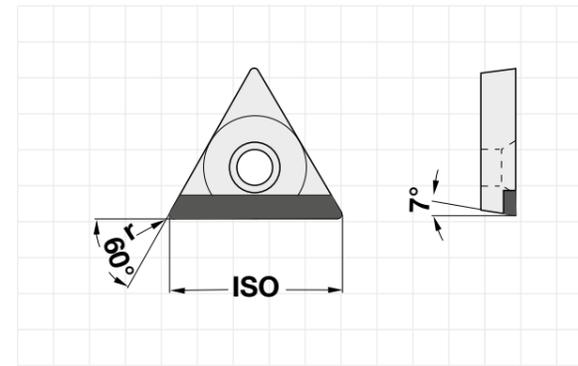
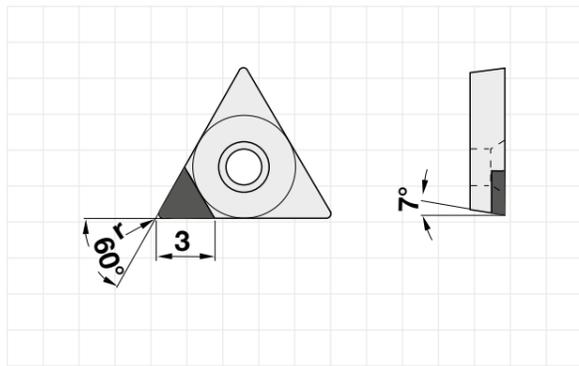


| ISO-Code      | Positiv             |             | P                             |          | N                             |          | Klemmhalter<br>Toolholder |
|---------------|---------------------|-------------|-------------------------------|----------|-------------------------------|----------|---------------------------|
|               | DTS Code            | DTS Code    | DTS Code                      | DTS Code | DTS Code                      | DTS Code |                           |
|               | Positiv<br>Positive |             | Spanleitstufe<br>Chip breaker |          | Spanleitstufe<br>Chip breaker |          |                           |
| TCGT 09 02 02 | DP1010-0080         | DP2010-0080 |                               |          |                               |          | STGC...09<br>A...STFC.09  |
| TCGT 09 02 04 | DP1010-0081         | DP2010-0081 |                               |          |                               |          |                           |
| TCGT 09 02 08 | DP1010-0082         | DP2010-0082 |                               |          |                               |          |                           |
| TCGT 11 02 02 | DP1010-0083         | DP2010-0083 |                               |          |                               |          | STGC...11<br>A...STFC.11  |
| TCGT 11 02 04 | DP1010-0084         | DP2010-0084 |                               |          |                               |          |                           |
| TCGT 11 02 08 | DP1010-0085         | DP2010-0085 |                               |          |                               |          |                           |
| TCGT 16 T3 02 | DP1010-0086         | DP2010-0086 |                               |          |                               |          | STGC...16                 |
| TCGT 16 T3 04 | DP1010-0087         | DP2010-0087 |                               |          |                               |          |                           |
| TCGT 16 T3 08 | DP1010-0088         | DP2010-0088 |                               |          |                               |          |                           |
| TCGT 16 T3 12 | DP1010-0089         | DP2010-0089 |                               |          |                               |          |                           |

| ISO-Code         | Positiv             |             | P                             |          | N                             |          | Klemmhalter<br>Toolholder |
|------------------|---------------------|-------------|-------------------------------|----------|-------------------------------|----------|---------------------------|
|                  | DTS Code            | DTS Code    | DTS Code                      | DTS Code | DTS Code                      | DTS Code |                           |
|                  | Positiv<br>Positive |             | Spanleitstufe<br>Chip breaker |          | Spanleitstufe<br>Chip breaker |          |                           |
| TCGT 09 02 02-GS | DP1020-0069         | DP2020-0069 |                               |          |                               |          | STGC...09<br>A...STFC.09  |
| TCGT 09 02 04-GS | DP1020-0021         | DP2020-0021 |                               |          |                               |          |                           |
| TCGT 09 02 08-GS | DP1020-0022         | DP2020-0022 |                               |          |                               |          |                           |
| TCGT 11 02 02-GS | DP1020-0070         | DP2020-0070 |                               |          |                               |          | STGC...11<br>A...STFC.11  |
| TCGT 11 02 04-GS | DP1020-0023         | DP2020-0023 |                               |          |                               |          |                           |
| TCGT 11 02 08-GS | DP1020-0024         | DP2020-0024 |                               |          |                               |          |                           |
| TCGT 11 02 12-GS | DP1020-0025         | DP2020-0025 |                               |          |                               |          |                           |
| TCGT 16 T3 02-GS | DP1020-0071         | DP2020-0071 |                               |          |                               |          | STGC...16                 |
| TCGT 16 T3 04-GS | DP1020-0027         | DP2020-0027 |                               |          |                               |          |                           |
| TCGT 16 T3 08-GS | DP1020-0028         | DP2020-0028 |                               |          |                               |          |                           |
| TCGT 16 T3 12-GS | DP1020-0029         | DP2020-0029 |                               |          |                               |          |                           |

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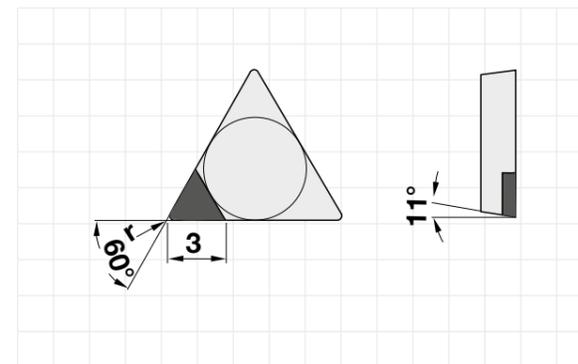
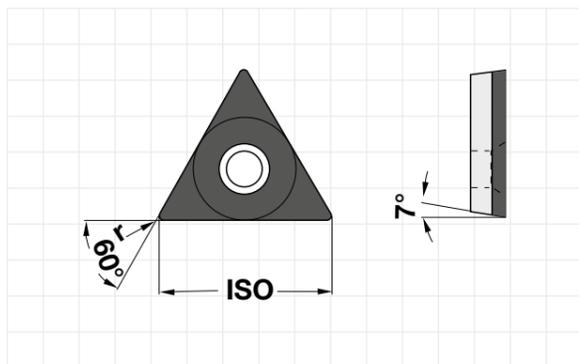
| ISO-Code      | Neutral     |             | P           |             | N           |             | Klemmhalter<br>Toolholder |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
|               | DTS Code    |                           |
| TCGW 09 02 01 | DP1010-0613 | DP2010-0613 |             |             |             |             | STGC...09<br>A...STFC.09  |
| TCGW 09 02 02 | DP1010-0090 | DP2010-0090 | DP1011-0040 | DP2011-0040 | DP1012-0040 | DP2012-0040 |                           |
| TCGW 09 02 04 | DP1010-0091 | DP2010-0091 | DP1011-0041 | DP2011-0041 | DP1012-0041 | DP2012-0041 |                           |
| TCGW 09 02 08 | DP1010-0092 | DP2010-0092 | DP1011-0042 | DP2011-0042 | DP1012-0042 | DP2012-0042 |                           |
| TCGW 11 02 01 | DP1010-0614 | DP2010-0614 |             |             |             |             | STGC...11<br>A...STFC.11  |
| TCGW 11 02 02 | DP1010-0093 | DP2010-0093 | DP1011-0043 | DP2011-0043 | DP1012-0043 | DP2012-0043 |                           |
| TCGW 11 02 04 | DP1010-0094 | DP2010-0094 | DP1011-0044 | DP2011-0044 | DP1012-0044 | DP2012-0044 |                           |
| TCGW 11 02 08 | DP1010-0095 | DP2010-0095 | DP1011-0045 | DP2011-0045 | DP1012-0045 | DP2012-0045 |                           |
| TCGW 16 T3 02 | DP1010-0096 | DP2010-0096 | DP1011-0046 | DP2011-0046 | DP1012-0046 | DP2012-0046 | STGC...16                 |
| TCGW 16 T3 04 | DP1010-0097 | DP2010-0097 | DP1011-0047 | DP2011-0047 | DP1012-0047 | DP2012-0047 |                           |
| TCGW 16 T3 08 | DP1010-0098 | DP2010-0098 | DP1011-0048 | DP2011-0048 | DP1012-0048 | DP2012-0048 |                           |
| TCGW 16 T3 12 | DP1010-0099 | DP2010-0099 | DP1011-0049 | DP2011-0049 | DP1012-0049 | DP2012-0049 |                           |

| ISO-Code         | Neutral     |             | P           |             | N           |             | Klemmhalter<br>Toolholder |
|------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
|                  | DTS Code    |                           |
| TCGW 09 02 02-GS | DP1020-0072 | DP2020-0072 | DP1021-0038 | DP2021-0038 | DP1022-0038 | DP2022-0038 | STGC...09<br>A...STFC.09  |
| TCGW 09 02 04-GS | DP1020-0030 | DP2020-0030 | DP1021-0012 | DP2021-0012 | DP1022-0012 | DP2022-0012 |                           |
| TCGW 09 02 08-GS | DP1020-0031 | DP2020-0031 | DP1021-0013 | DP2021-0013 | DP1022-0013 | DP2022-0013 |                           |
| TCGW 11 02 02-GS | DP1020-0073 | DP2020-0073 | DP1021-0039 | DP2021-0039 | DP1022-0039 | DP2022-0039 | STGC...11<br>A...STFC.11  |
| TCGW 11 02 04-GS | DP1020-0032 | DP2020-0032 | DP1021-0014 | DP2021-0014 | DP1022-0014 | DP2022-0014 |                           |
| TCGW 11 02 08-GS | DP1020-0033 | DP2020-0033 | DP1021-0015 | DP2021-0015 | DP1022-0015 | DP2022-0015 |                           |
| TCGW 11 02 12-GS | DP1020-0034 | DP2020-0034 | DP1021-0016 | DP2021-0016 | DP1022-0016 | DP2022-0016 |                           |
| TCGW 16 T3 02-GS | DP1020-0074 | DP2020-0074 | DP1021-0040 | DP2021-0040 | DP1022-0040 | DP2022-0040 | STGC...16                 |
| TCGW 16 T3 04-GS | DP1020-0036 | DP2020-0036 | DP1021-0018 | DP2021-0018 | DP1022-0018 | DP2022-0018 |                           |
| TCGW 16 T3 08-GS | DP1020-0037 | DP2020-0037 | DP1021-0019 | DP2021-0019 | DP1022-0019 | DP2022-0019 |                           |
| TCGW 16 T3 12-GS | DP1020-0038 | DP2020-0038 | DP1021-0020 | DP2021-0020 | DP1022-0020 | DP2022-0020 |                           |

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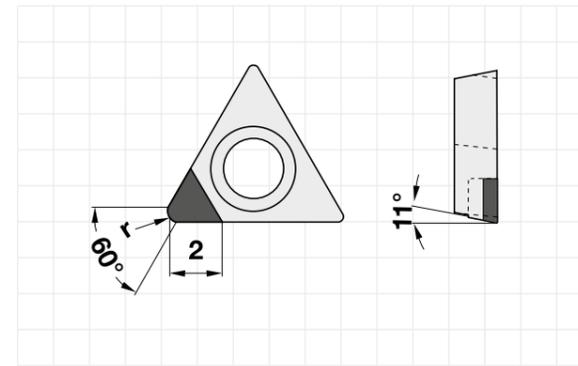
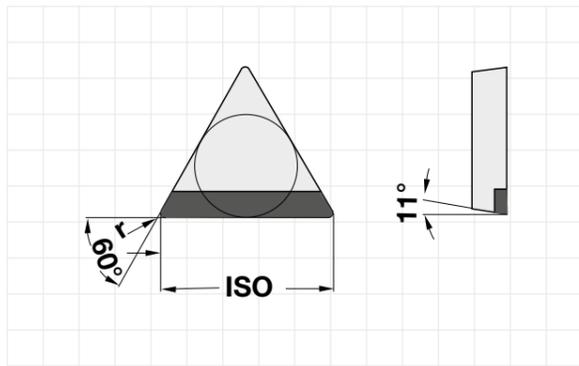
| ISO-Code       | Neutral     |             | P           |             | N           |             | Klemmhalter<br>Toolholder |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
|                | DTS Code    |                           |
| TCGW 090202-FF | DP1030-0030 | DP2030-0030 |             |             |             |             | STGC...09<br>A...STFC.09  |
| TCGW 090204-FF | DP1030-0031 | DP2030-0031 |             |             |             |             |                           |
| TCGW 090208-FF | DP1030-0032 | DP2030-0032 |             |             |             |             |                           |
| TCGW 110202-FF | DP1030-0010 | DP2030-0010 | DP1031-0010 | DP2031-0010 | DP1032-0010 | DP2032-0010 | STGC...11<br>A...STFC.11  |
| TCGW 110204-FF | DP1030-0011 | DP2030-0011 | DP1031-0011 | DP2031-0011 | DP1032-0011 | DP2032-0011 |                           |
| TCGW 110208-FF | DP1030-0012 | DP2030-0012 | DP1031-0012 | DP2031-0012 | DP1032-0012 | DP2032-0012 |                           |

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|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------|
|             | DTS Code    |                              |
| TPGN 090204 | DP1010-0100 | DP2010-0100 | DP1011-0050 | DP2011-0050 | DP1012-0050 | DP2012-0050 | S...CTFP...09                |
| TPGN 090208 | DP1010-0101 | DP2010-0101 | DP1011-0051 | DP2011-0051 | DP1012-0051 | DP2012-0051 |                              |
| TPGN 110204 | DP1010-0102 | DP2010-0102 | DP1011-0052 | DP2011-0052 | DP1012-0052 | DP2012-0052 | CTGP...1102<br>S...CTFP.1102 |
| TPGN 110208 | DP1010-0103 | DP2010-0103 | DP1011-0053 | DP2011-0053 | DP1012-0053 | DP2012-0053 |                              |
| TPGN 110302 | DP1010-0104 | DP2010-0104 | DP1011-0054 | DP2011-0054 | DP1012-0054 | DP2012-0054 | CTGP...1103<br>S...CTFP.1103 |
| TPGN 110304 | DP1010-0105 | DP2010-0105 | DP1011-0055 | DP2011-0055 | DP1012-0055 | DP2012-0055 |                              |
| TPGN 110308 | DP1010-0106 | DP2010-0106 | DP1011-0056 | DP2011-0056 | DP1012-0056 | DP2012-0056 | CTGP...16<br>S...CTFP.16     |
| TPGN 160304 | DP1010-0107 | DP2010-0107 | DP1011-0057 | DP2011-0057 | DP1012-0057 | DP2012-0057 |                              |
| TPGN 160308 | DP1010-0108 | DP2010-0108 | DP1011-0058 | DP2011-0058 | DP1012-0058 | DP2012-0058 |                              |
| TPGN 160312 | DP1010-0109 | DP2010-0109 | DP1011-0059 | DP2011-0059 | DP1012-0059 | DP2012-0059 |                              |

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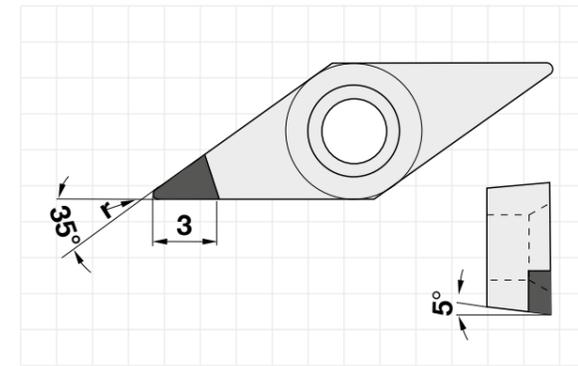
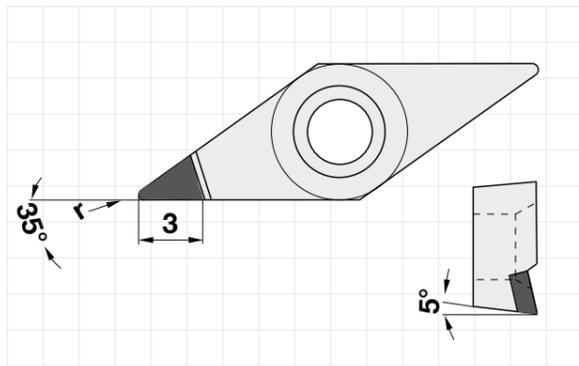


| ISO-Code                | Neutral            |             | P                             |             | N                             |             | Klemmhalter<br>Toolholder    |
|-------------------------|--------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|------------------------------|
|                         | DTS Code           | DTS Code    | DTS Code                      | DTS Code    | DTS Code                      | DTS Code    |                              |
|                         | Neutral<br>Neutral |             | Spanleitstufe<br>Chip breaker |             | Spanleitstufe<br>Chip breaker |             |                              |
|                         |                    |             |                               |             |                               |             |                              |
|                         | PKD<br>PCD         |             | PKD<br>PCD                    |             | PKD<br>PCD                    |             |                              |
|                         | CVD                |             | CVD                           |             | CVD                           |             |                              |
| <b>TPGN 11 03 04-GS</b> | DP1020-0039        | DP2020-0039 | DP1021-0021                   | DP2021-0021 | DP1022-0021                   | DP2022-0021 | CTGP...1103<br>S...CTFP.1103 |
| <b>TPGN 11 03 08-GS</b> | DP1020-0040        | DP2020-0040 | DP1021-0022                   | DP2021-0022 | DP1022-0022                   | DP2022-0022 |                              |
| <b>TPGN 11 03 12-GS</b> | DP1020-0041        | DP2020-0041 | DP1021-0023                   | DP2021-0023 | DP1022-0023                   | DP2022-0023 |                              |
| <b>TPGN 16 03 04-GS</b> | DP1020-0042        | DP2020-0042 | DP1021-0024                   | DP2021-0024 | DP1022-0024                   | DP2022-0024 | CTGP...16<br>S...CTFP.16     |
| <b>TPGN 16 03 08-GS</b> | DP1020-0043        | DP2020-0043 | DP1021-0025                   | DP2021-0025 | DP1022-0025                   | DP2022-0025 |                              |
| <b>TPGN 16 03 12-GS</b> | DP1020-0044        | DP2020-0044 | DP1021-0026                   | DP2021-0026 | DP1022-0026                   | DP2022-0026 |                              |

| ISO-Code            | Neutral            |             | P                             |             | N                             |             | Klemmhalter<br>Toolholder |
|---------------------|--------------------|-------------|-------------------------------|-------------|-------------------------------|-------------|---------------------------|
|                     | DTS Code           | DTS Code    | DTS Code                      | DTS Code    | DTS Code                      | DTS Code    |                           |
|                     | Neutral<br>Neutral |             | Spanleitstufe<br>Chip breaker |             | Spanleitstufe<br>Chip breaker |             |                           |
|                     |                    |             |                               |             |                               |             |                           |
|                     | PKD<br>PCD         |             | PKD<br>PCD                    |             | PKD<br>PCD                    |             |                           |
|                     | CVD                |             | CVD                           |             | CVD                           |             |                           |
| <b>TPGW 06 T101</b> |                    | DP2010-0671 |                               |             |                               |             | E06H<br>STXPR/L 06        |
| <b>TPGW 06 T102</b> |                    | DP2010-0672 |                               | DP2011-0672 |                               | DP2012-0672 |                           |
| <b>TPGW 06 T104</b> |                    | DP2010-0673 |                               | DP2011-0673 |                               | DP2012-0673 |                           |

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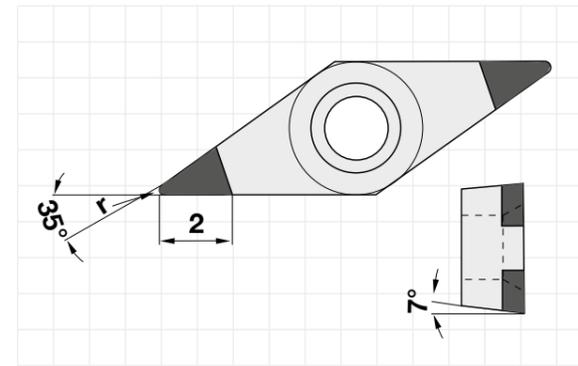
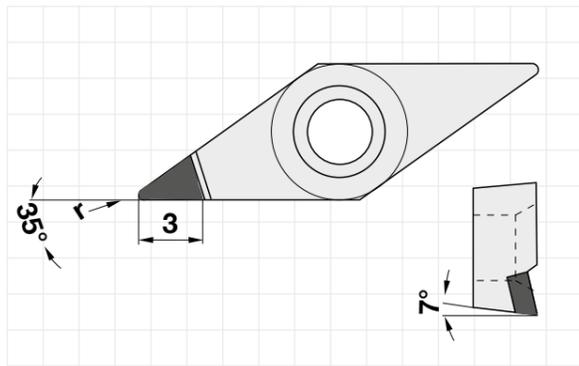
| ISO-Code           | Positiv     |             | P        |          | N        |          | Klemmhalter<br>Toolholder |
|--------------------|-------------|-------------|----------|----------|----------|----------|---------------------------|
|                    | DTS Code    | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |                           |
|                    |             |             |          |          |          |          |                           |
| <b>VBGT 110201</b> | DP1010-0605 | DP2010-0605 |          |          |          |          | SVJB... 11<br>SVVBN 11    |
| <b>VBGT 110202</b> | DP1010-0401 | DP2010-0401 |          |          |          |          |                           |
| <b>VBGT 110204</b> | DP1010-0402 | DP2010-0402 |          |          |          |          |                           |
| <b>VBGT 110208</b> | DP1010-0403 | DP2010-0403 |          |          |          |          |                           |
| <b>VBGT 160401</b> | DP1010-0606 | DP2010-0606 |          |          |          |          | SVJB... 16<br>SVVBN 16    |
| <b>VBGT 160402</b> | DP1010-0404 | DP2010-0404 |          |          |          |          |                           |
| <b>VBGT 160404</b> | DP1010-0405 | DP2010-0405 |          |          |          |          |                           |
| <b>VBGT 160408</b> | DP1010-0406 | DP2010-0406 |          |          |          |          |                           |
| <b>VBGT 160412</b> | DP1010-0407 | DP2010-0407 |          |          |          |          |                           |

| ISO-Code           | Neutral     |             | P           |             | N           |             | Klemmhalter<br>Toolholder |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------------|
|                    | DTS Code    |                           |
|                    |             |             |             |             |             |             |                           |
| <b>VBGW 110201</b> | DP1010-0607 | DP2010-0607 |             |             |             |             | SVJB... 11<br>SVVBN 11    |
| <b>VBGW 110202</b> | DP1010-0451 | DP2010-0451 | DP1011-0451 | DP2011-0451 | DP1012-0451 | DP2012-0451 |                           |
| <b>VBGW 110204</b> | DP1010-0452 | DP2010-0452 | DP1011-0452 | DP2011-0452 | DP1012-0452 | DP2012-0452 |                           |
| <b>VBGW 110208</b> | DP1010-0453 | DP2010-0453 | DP1011-0453 | DP2011-0453 | DP1012-0453 | DP2012-0453 |                           |
| <b>VBGW 160401</b> | DP1010-0608 | DP2010-0608 |             |             |             |             | SVJB... 16<br>SVVBN 16    |
| <b>VBGW 160402</b> | DP1010-0454 | DP2010-0454 | DP1011-0454 | DP2011-0454 | DP1012-0454 | DP2012-0454 |                           |
| <b>VBGW 160404</b> | DP1010-0455 | DP2010-0455 | DP1011-0455 | DP2011-0455 | DP1012-0455 | DP2012-0455 |                           |
| <b>VBGW 160408</b> | DP1010-0456 | DP2010-0456 | DP1011-0456 | DP2011-0456 | DP1012-0456 | DP2012-0456 |                           |
| <b>VBGW 160412</b> | DP1010-0457 | DP2010-0457 | DP1011-0457 | DP2011-0457 | DP1012-0457 | DP2012-0457 |                           |

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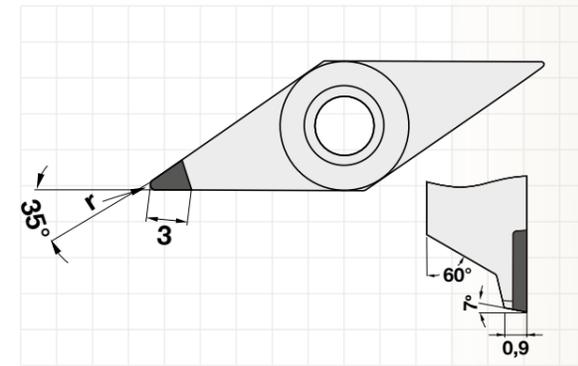
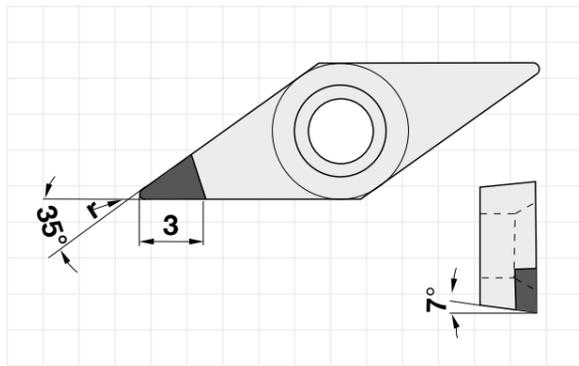


| ISO-Code     | Positiv     |             | P        |          | N        |          | Klemmhalter<br>Toolholder                    |
|--------------|-------------|-------------|----------|----------|----------|----------|--|
|              | DTS Code    | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |  |
|              |             |             |          |          |          |          |  |
| VCGT 0702 01 | DP1010-0131 | DP2010-0133 |          |          |          |          | SVJC./<br>SVVCN...07                         |
| VCGT 0702 02 | DP1010-0119 | DP2010-0119 |          |          |          |          |  |
| VCGT 0702 04 | DP1010-0120 | DP2010-0120 |          |          |          |          |  |
| VCGT 0702 08 | DP1010-0132 | DP2010-0134 |          |          |          |          |  |
| VCGT 1103 01 | DP1010-0609 | DP2010-0609 |          |          |          |          | SVJC. /<br>SVVCN...11                        |
| VCGT 1103 02 | DP1010-0121 | DP2010-0121 |          |          |          |          |  |
| VCGT 1103 04 | DP1010-0122 | DP2010-0122 |          |          |          |          |  |
| VCGT 1103 08 | DP1010-0123 | DP2010-0123 |          |          |          |          |  |
| VCGT 1604 01 | DP1010-0610 | DP2010-0610 |          |          |          |          | SVJC. / SVHC. /<br>SVVCN...16<br>A...SVJC.16 |
| VCGT 1604 02 | DP1010-0124 | DP2010-0124 |          |          |          |          |  |
| VCGT 1604 04 | DP1010-0125 | DP2010-0125 |          |          |          |          |  |
| VCGT 1604 08 | DP1010-0126 | DP2010-0126 |          |          |          |          |  |
| VCGT 1604 12 | DP1010-0127 | DP2010-0127 |          |          |          |          |  |

| ISO-Code     | Neutral  |             | P        |          | N        |          | Klemmhalter<br>Toolholder |
|--------------|----------|-------------|----------|----------|----------|----------|---------------------------|
|              | DTS Code | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |                           |
|              |          |             |          |          |          |          |                           |
| VCGW 0501 01 |          | DP2010-0561 |          |          |          |          | E... SVLC. 05             |
| VCGW 0501 02 |          | DP2010-0562 |          |          |          |          |                           |
| VCGW 0501 04 |          | DP2010-0563 |          |          |          |          |                           |

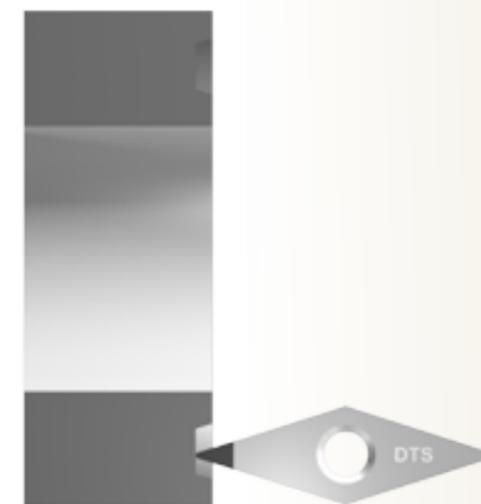
- Aluminium-Knetlegierung  
Aluminium alloys
- Kupfer-Messing Legierungen  
Copper-Brass Alloys
- Keramik / Zirkon  
Ceramic / Zirconium
- GFK-CFK / Graphit  
Glass-Carbonfibre reinforced / Graphite

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| ISO-Code    | Neutral     |             | P           |             | N           |             | Klemmhalter<br>Toolholder                    |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|
|             | PKD<br>PCD  | CVD         | PKD<br>PCD  | CVD         | PKD<br>PCD  | CVD         |  |
| VCGW 070201 | DP1010-0135 | DP2010-0135 |             |             |             |             | SVJC./<br>SVVCN...07                         |
| VCGW 070202 | DP1010-0110 | DP2010-0110 | DP1011-0060 | DP2011-0060 | DP1012-0060 | DP2012-0060 |  |
| VCGW 070204 | DP1010-0111 | DP2010-0111 | DP1011-0061 | DP2011-0061 | DP1012-0061 | DP2012-0061 |  |
| VCGW 070208 | DP1010-0136 | DP2010-0136 | DP1011-0075 | DP2011-0075 | DP1012-0075 | DP2012-0075 |  |
| VCGW 110301 | DP1010-0611 | DP2010-0611 |             |             |             |             | SVJC. /<br>SVVCN...11                        |
| VCGW 110302 | DP1010-0112 | DP2010-0112 | DP1011-0062 | DP2011-0062 | DP1012-0062 | DP2012-0062 |  |
| VCGW 110304 | DP1010-0113 | DP2010-0113 | DP1011-0063 | DP2011-0063 | DP1012-0063 | DP2012-0063 |  |
| VCGW 110308 | DP1010-0114 | DP2010-0114 | DP1011-0064 | DP2011-0064 | DP1012-0064 | DP2012-0064 |  |
| VCGW 160401 | DP1010-0612 | DP2010-0612 |             |             |             |             | SVJC. / SVHC. /<br>SVVCN...16<br>A...SVJC.16 |
| VCGW 160402 | DP1010-0115 | DP2010-0115 | DP1011-0065 | DP2011-0065 | DP1012-0065 | DP2012-0065 |  |
| VCGW 160404 | DP1010-0116 | DP2010-0116 | DP1011-0066 | DP2011-0066 | DP1012-0066 | DP2012-0066 |  |
| VCGW 160408 | DP1010-0117 | DP2010-0117 | DP1011-0067 | DP2011-0067 | DP1012-0067 | DP2012-0067 |  |
| VCGW 160412 | DP1010-0118 | DP2010-0118 | DP1011-0068 | DP2011-0068 | DP1012-0068 | DP2012-0068 |  |

| ISO-Code    | Neutral    |             | P          |     | N          |     | Klemmhalter<br>Toolholder                    |
|-------------|------------|-------------|------------|-----|------------|-----|--|
|             | PKD<br>PCD | CVD         | PKD<br>PCD | CVD | PKD<br>PCD | CVD |  |
| VXGW 160401 |            | DP2010-0310 |            |     |            |     | SVJX. / SVHX. /<br>SVVXN..16<br>A...SVJX..16 |
| VXGW 160402 |            | DP2010-0311 |            |     |            |     |  |
| VXGW 160404 |            | DP2010-0312 |            |     |            |     |  |
| VXGW 160408 |            | DP2010-0313 |            |     |            |     |  |

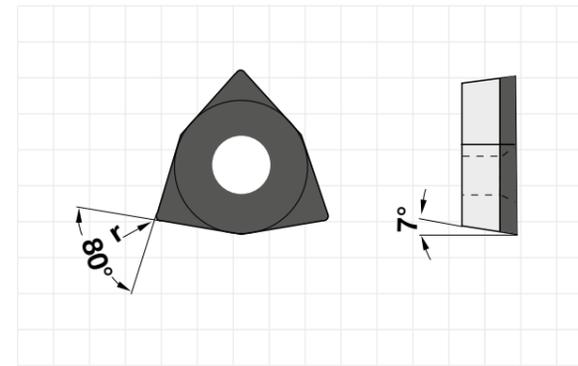
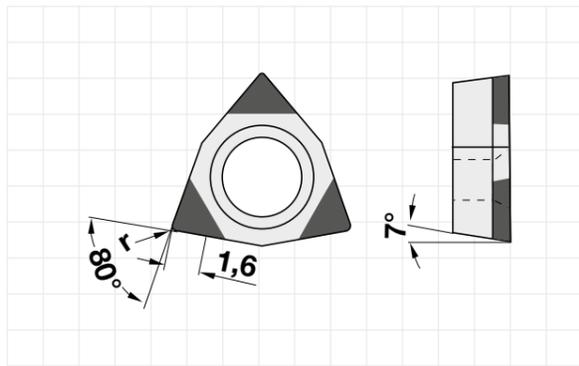


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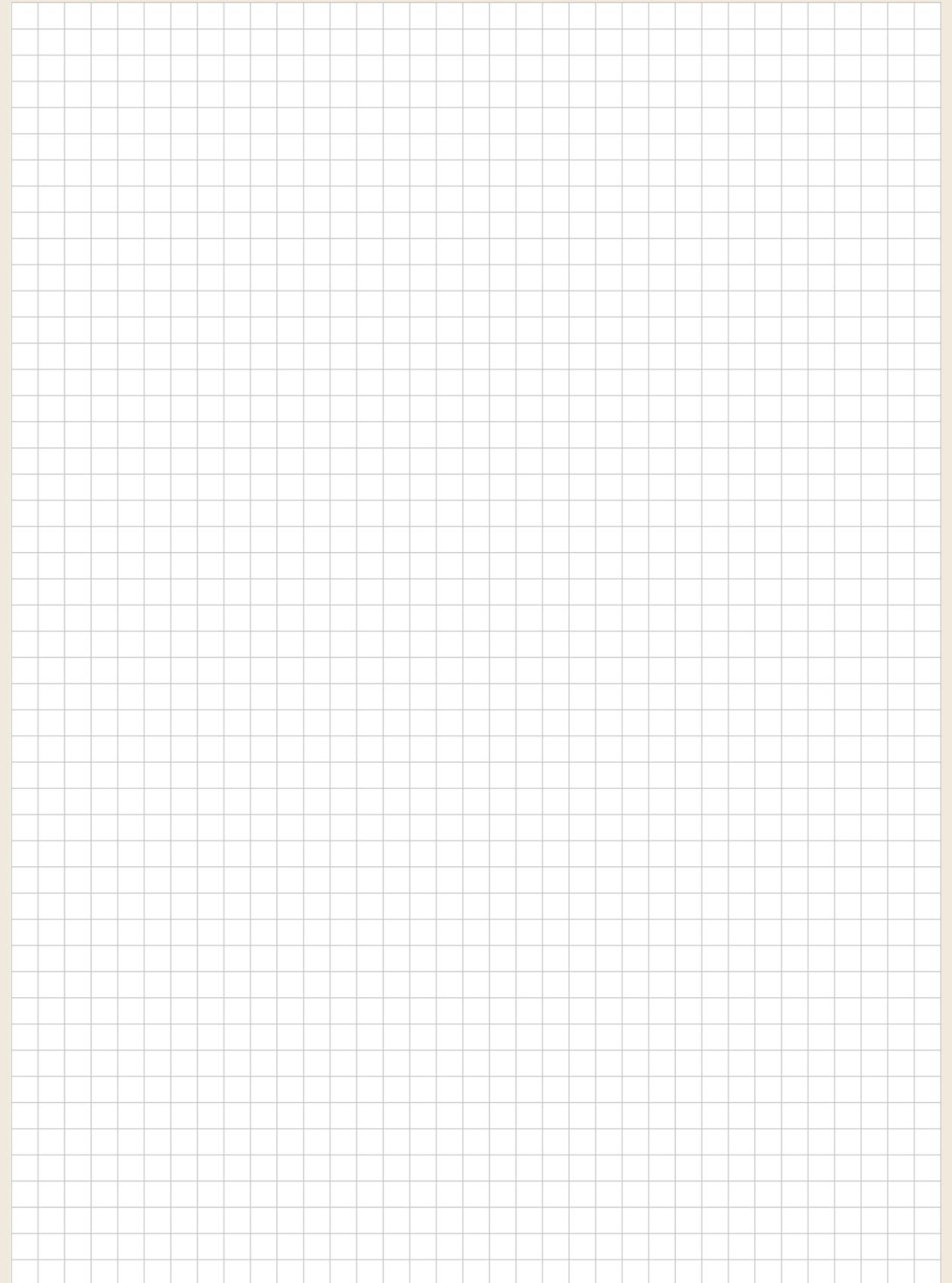
| ISO-Code    | Neutral  |             | P        |          | N        |          | Klemmhalter<br>Toolholder |
|-------------|----------|-------------|----------|----------|----------|----------|---------------------------|
|             | DTS Code | DTS Code    | DTS Code | DTS Code | DTS Code | DTS Code |                           |
| WCGW 020101 |          | DP2010-0571 |          |          |          |          | E... SWUC. 02             |
| WCGW 020102 |          | DP2010-0572 |          |          |          |          |                           |
| WCGW 020104 |          | DP2010-0573 |          |          |          |          |                           |

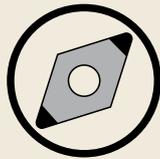
| ISO-Code       | Neutral     |             | P           |             | N           |             | Klemmhalter<br>Toolholder  |
|----------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------------|
|                | DTS Code    |                            |
| WCGW 020101-FF |             | DP2030-0017 |             |             |             |             | SWLC...02                  |
| WCGW 020102-FF | DP1030-0013 | DP2030-0013 | DP1031-0013 | DP2031-0013 | DP1032-0013 | DP2032-0013 | Bohrstange /<br>Boring bar |
| WCGW 020104-FF | DP1030-0014 | DP2030-0014 | DP1031-0014 | DP2031-0014 | DP1032-0014 | DP2032-0014 | A/E08K SWUCR/L             |
| WCGW 040201-FF |             | DP2030-0018 |             |             |             |             | SWLC...04                  |
| WCGW 040202-FF | DP1030-0015 | DP2030-0015 | DP1031-0015 | DP2031-0015 | DP1032-0015 | DP2032-0015 | Bohrstange /<br>Boring bar |
| WCGW 040204-FF | DP1030-0016 | DP2030-0016 | DP1031-0016 | DP2031-0016 | DP1032-0016 | DP2032-0016 | A/E08K SWUCR/L             |

● Aluminium-Knetlegierung  
 Aluminium alloys  
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 Copper-Brass Alloys

Keramik / Zirkon  
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 GFK-CFK / Graphit  
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