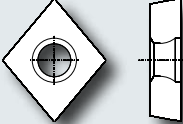
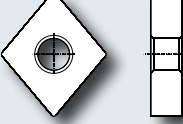
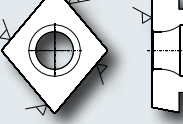
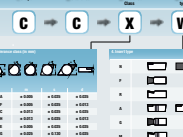
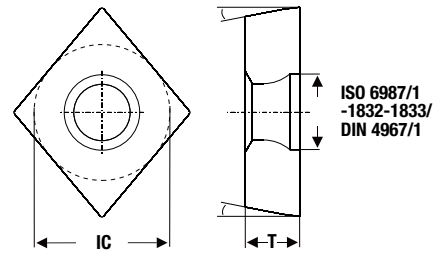




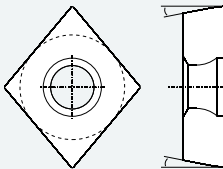
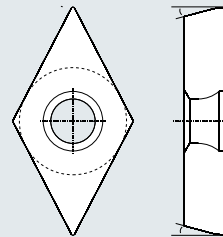
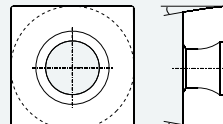
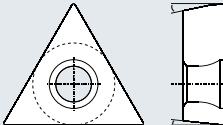
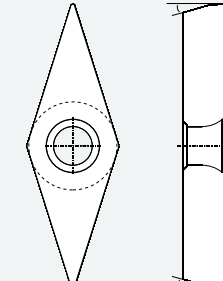
- EN Carbide inserts for PCD and PcBN tipping
- DE Hartmetall-Rohlinge zur PKD- und PcBN-Bestückung
- FR Ébauches de carbure pour le renforcement par PCD et PcBN
- IT Inserti grezzi in metallo duro per riportare PCD e PcBN
- ES Piezas en bruto de metal duro para dotación con punta de PCD y PcBN

- EN Carbide inserts for PCD and PcBN tipping
- DE Hartmetall-Rohlinge zur PKD- und PcBN-Bestückung
- FR Ébauches de carbure pour le renforcement par PCD et PcBN
- IT Inserti grezzi in metallo duro per riportare PCD e PcBN
- ES Piezas en bruto de metal duro para dotación con punta de PCD y PcBN

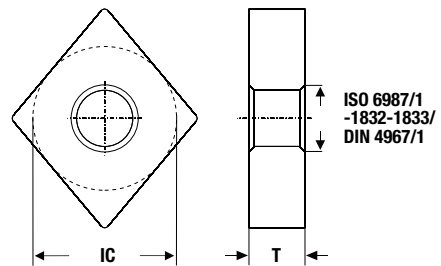
|  |   |   |
|--|---|---|
|   | <p>EN Blanks for positive inserts<br/>         DE Rohlinge für Positivplatten<br/>         FR Ébauches pour plaques positives<br/>         IT Grezzi per inserti positivi<br/>         ES Piezas en bruto para placas positivas</p>   | <div style="background-color: #0056b3; color: white; border-radius: 10px; padding: 5px; display: inline-block;">44</div>      |
|   | <p>EN Blanks for negative inserts<br/>         DE Rohlinge für Negativplatten<br/>         FR Ébauches pour plaques négatives<br/>         IT Grezzi per inserti negativi<br/>         ES Piezas en bruto para placas negativas</p>   | <div style="background-color: #0056b3; color: white; border-radius: 10px; padding: 5px; display: inline-block;">45</div>      |
|   | <p>EN Ground inserts, seat pockets<br/>         DE Geschliffene Bestückungsplatten, Plattensitze<br/>         FR Ébauches polies, poches de siège<br/>         IT Grezzi rettificati, sede piastrine<br/>         ES Piezas en bruto afilado, bolsillos de los asientos</p> | <div style="background-color: #0056b3; color: white; border-radius: 10px; padding: 5px; display: inline-block;">46 - 47</div> |
|  | <p>EN ISO insert nomenclature<br/>         DE ISO Schneidplatten-Nomenklatur<br/>         FR Nomenclature ISO pour les plaques de coupe<br/>         IT Nomenclatura ISO per inserti da taglio<br/>         ES Nomenclatura inserto ISO</p>                                 | <div style="background-color: #0056b3; color: white; border-radius: 10px; padding: 5px; display: inline-block;">48 - 49</div> |



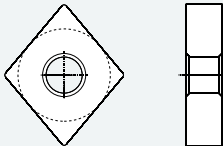
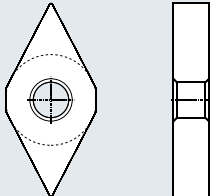
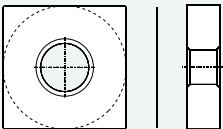
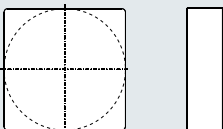
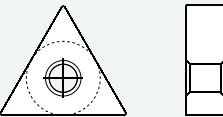

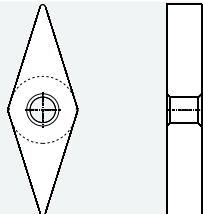
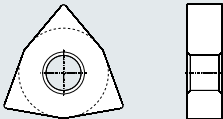
EN Blanks for positive inserts  
 DE Rohlinge für Positivplatten  
 FR Ébauches pour plaques positives  
 IT Grezzi per inserti positivi  
 ES Piezas en bruto para placas positivas

|   | SHAPE                      | Dimensions (mm) |             | positive unground     | Art.No.       |
|---|----------------------------|-----------------|-------------|-----------------------|---------------|
|   |                            | IC<br>± 0.08    | T<br>± 0.08 |                       |               |
|    | <b>C..80°<br/>Rhombic</b>  | 6.75            | 2.7         | <b>CCXW 0602XX-HM</b> | <b>117880</b> |
|   |                            | 9.95            | 4.3         | <b>CCXW 09T3XX-HM</b> | <b>117881</b> |
|   |                            | 13.2            | 5.15        | <b>CPXW 1204XX-HM</b> | <b>122039</b> |
|   | <b>D..55°<br/>Rhombic</b>  | 6.75            | 2.7         | <b>DCXW 0702XX-HM</b> | <b>117882</b> |
|   |                            | 9.95            | 4.3         | <b>DCXW 11T3XX-HM</b> | <b>117883</b> |
|  | <b>S..90°<br/>Square</b>   | 10.1            | 4.3         | <b>SCXW 09T3XX-HM</b> | <b>117884</b> |
|  | <b>T..60°<br/>Triangle</b> | 6.95            | 2.7         | <b>TCXW 1102XX-HM</b> | <b>117885</b> |
|   |                            | 6.95            | 3.45        | <b>TPXW 1103XX-HM</b> | <b>117887</b> |
|   |                            | 10.1            | 4.3         | <b>TCXW 16T3XX-HM</b> | <b>117886</b> |
|  | <b>V..35°<br/>Rhombic</b>  | 6.95            | 3.45        | <b>VCXW 1103XX-HM</b> | <b>117889</b> |
|   |                            | 10              | 5.15        | <b>VBXW 1604XX-HM</b> | <b>117888</b> |

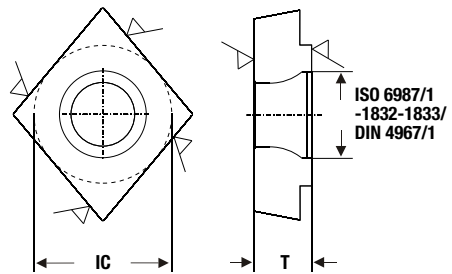
EN Other dimensions upon request.  
 DE Andere Abmessungen auf Anfrage.  
 FR D'autres dimensions disponibles sur demande.  
 IT Altre dimensioni su richiesta.  
 ES Otras dimensiones bajo demanda.



EN Blanks for negative inserts  
 DE Rohlinge für Negativplatten  
 FR Ébauches pour plaques négatives  
 IT Grezzi per inserti negativi  
 ES Piezas en bruto para placas negativas

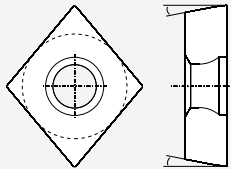
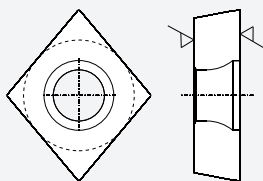
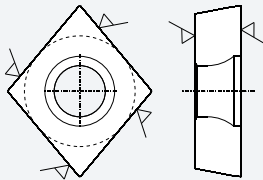
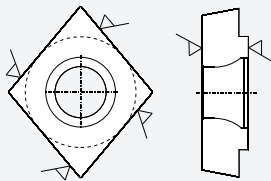
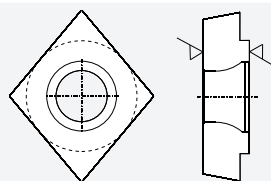
|   | SHAPE                      | Dimensions (mm) |             | negative unground | Art.No. |
|---|----------------------------|-----------------|-------------|-------------------|---------|
|   |                            | IC<br>± 0.08    | T<br>± 0.08 |                   |         |
|    | <b>C..80°<br/>Rhombic</b>  | 13.2            | 5.15        | CNXA 1204XX-HM    | 117890  |
|    | <b>D..55°<br/>Rhombic</b>  | 13.2            | 5.15        | DNXA 1504XX-HM    | 117891  |
|   |                            | 13.2            | 6.65        | DNXA 1506XX-HM    | 117892  |
|   | <b>S..90°<br/>Square</b>   | 13.2            | 5.15        | SNXA 1204XX-HM    | 117893  |
|  | <b>S..90°<br/>Square</b>   | 13.2            | 3.45        | SNXN 1203XX-HM    | 117894  |
|   |                            | 13.2            | 5.15        | SNXN 1204XX-HM    | 117895  |
|  | <b>T..60°<br/>Triangle</b> | 10              | 5.15        | TNXA 1604XX-HM    | 117896  |
|  | <b>T..60°<br/>Triangle</b> | 6.95            | 3.45        | TNXN 1103XX-HM    | 122002  |
|   |                            | 10              | 5.15        | TNXN 1604XX-HM    | 117897  |
|  | <b>V..35°<br/>Rhombic</b>  | 10              | 5.15        | VNXA 1604XX-HM    | 117898  |
|  | <b>W..80°<br/>Rhombic</b>  | 13.2            | 5.15        | WNXA 0804XX-HM    | 117899  |

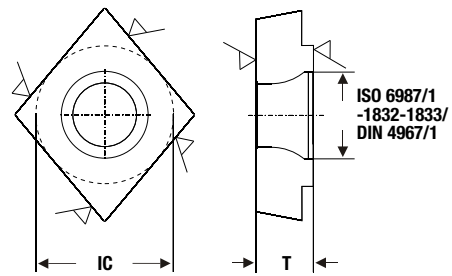
EN Other dimensions upon request.  
 DE Andere Abmessungen auf Anfrage.  
 FR D'autres dimensions disponibles sur demande.  
 IT Altre dimensioni su richiesta.  
 ES Otras dimensiones bajo demanda.



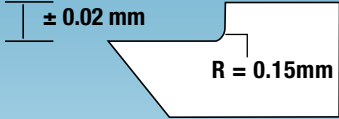
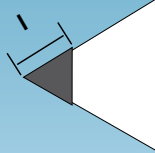
EN Ordering examples  
 DE Bestellbeispiele  
 FR Exemples de commande  
 IT Esempi di ordinazione  
 ES Ejemplos de pedido

- EN Ground inserts, seat pockets  
 DE Geschliffene Bestückungsplatten, Plattensitze  
 FR Ébauches polies, poches de siège  
 IT Grezzi rettificati, sede piastrine  
 ES Piezas en bruto afilado, bolsillos de los asientos

| EN<br>DE<br>FR<br>IT<br>ES | Basic insert<br>Basisplatte<br>Plaquette élémentaire<br>Inserto di base<br>Inserto básico                                      | Dimensions (mm) |            |            | Nomenclature   |
|----------------------------|--|-----------------|------------|------------|--|
|                            |  | IC<br>mm        | T<br>mm    |            |  |
|                            |   | $\pm 0.08$      | $\pm 0.08$ |            | CCXW0602XX-HM  |
| EN<br>DE<br>FR<br>IT<br>ES | Top and bottom ground<br>Auf Stärke geschliffen<br>Meulage épaisseur<br>Rettificato sullo spessore<br>Rectificado al espesor   | Dimensions (mm) |            |            | Nomenclature   |
|                            |  | IC<br>mm        | T<br>mm    |            |  |
|                            |    | $\pm 0.08$      | $\pm 0.02$ |            | CCXW0602XX-FG  |
| EN<br>DE<br>FR<br>IT<br>ES | Peripheral ground<br>Umfang geschliffen<br>Meulage circonférence<br>Rettificato sui lati<br>Rectificado periferia              | Dimensions (mm) |            |            | Nomenclature   |
|                            |  | IC<br>mm        | T<br>mm    | R<br>mm    |  |
|                            |   | $\pm 0.025$     | $\pm 0.02$ | $\pm 0.02$ | CCGW060201-HM<br>Radius  |
| EN<br>DE<br>FR<br>IT<br>ES | With pockets for PCD<br>Mit Plattensitz für PKD<br>Avec des poches pour PCD<br>Con sede per PCD<br>Con bolsillos para PCD      | Dimensions (mm) |            |            | Nomenclature   |
|                            |  | IC<br>mm        | T<br>mm    | R<br>mm    |  |
|                            |   | $\pm 0.025$     | $\pm 0.02$ | $\pm 0.02$ | Number of Pockets / Single Use / Multiple Use<br>SU<br>CCGW060201-2SP-SU<br>MU |
| EN<br>DE<br>FR<br>IT<br>ES | With pockets for PcBN<br>Mit Plattensitz für PcBN<br>Avec des poches pour PcBN<br>Con sede per PcBN<br>Con bolsillos para PcBN | Dimensions (mm) |            |            | Nomenclature   |
|                            |  | IC<br>mm        | T<br>mm    |            |  |
|                            |   | $\pm 0.08$      | $\pm 0.02$ |            | Number of Pockets / Single Use / Multiple Use<br>SU<br>CCXW060201-2SP-SU<br>MU |



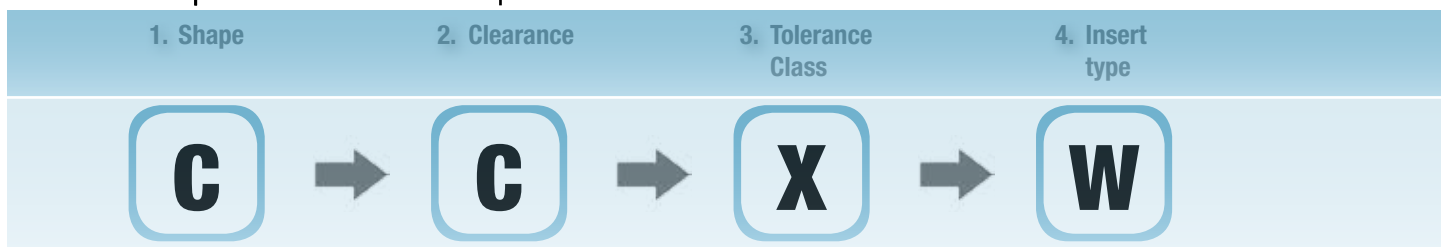
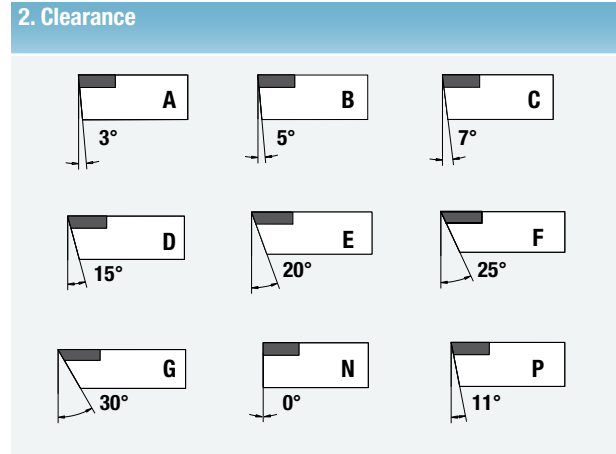
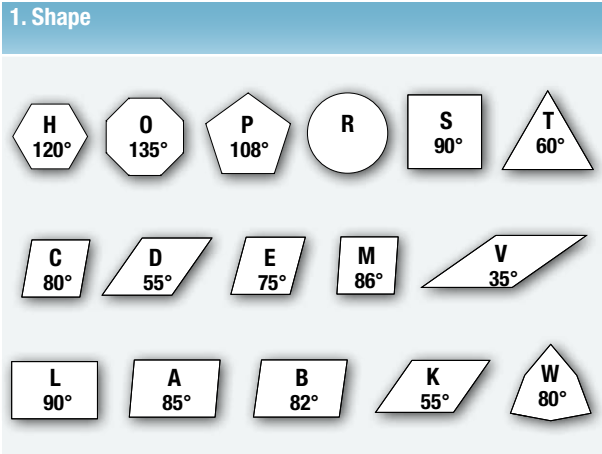
- EN Ground inserts, seat pockets
- DE Geschliffene Bestückungsplatten, Plattensitze
- FR Ébauches polies, poches de siège
- IT Grezzi rettificati, sede piastrine
- ES Piezas en bruto afilado, bolsillos de los asientos

|   |   |   |
|---|---|---|
| <p>EN Seat pocket details<br/>DE Plattensitzdetails<br/>FR Détails de poche de siège<br/>IT Dettagli della sede<br/>ES Detalles de bolsillo del asiento</p>  | <p>Cutting edge length<br/>Schneidenkantenlänge<br/>Longueur de l'arête de coupe<br/>Lunghezza del tagliante<br/>Longitud de filo</p>  | <p>Projection 0.15 - 0.2 mm each side<br/>Überstand je Seite 0.15 - 0.2 mm<br/>Projection 0.15 - 0.2 mm de chaque côté<br/>Sporgenza 0.15 - 0.2 millimetri ogni lato<br/>Proyección 0.15 - 0.2 mm cada lado</p> |
|---|---|---|

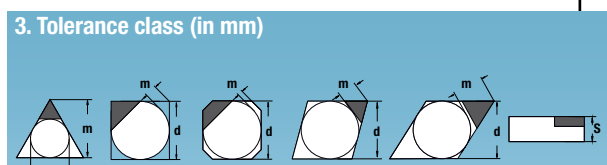
| Segment   | For radius | l (mm) | single use/<br>multiple use | Segment | For radius | l (mm) | single use/<br>multiple use |
|-----------|------------|--------|-----------------------------|---------|------------|--------|-----------------------------|
| 35T(R0.2) | 0.2        | 3.0    | Single                      | 80T3.5  | 0.2        | 3.0    | Single                      |
| 35T(R0.4) | 0.4        | 3.1    | Single                      |         | 0.4        | 2.9    | Single                      |
| 35T(R0.8) | 0.8        | 3.2    | Single                      |         | 0.8        | 2.8    | Single                      |
| 35T(R1.2) | 1.2        | 3.3    | Single                      |         | 1.2        | 2.7    | Single                      |
| 35T(R0.2) | 0.2        | 4.4    | Multi                       | 80T5.0  | 0.2        | 4.45   | Multi                       |
| 35T(R0.4) | 0.4        | 4.5    | Multi                       |         | 0.4        | 4.4    | Multi                       |
| 35T(R0.8) | 0.8        | 4.6    | Multi                       |         | 0.8        | 4.35   | Multi                       |
| 35T(R1.2) | 1.2        | 4.7    | Multi                       |         | 1.2        | 4.3    | Multi                       |
| 55T3.5    | 0.2        | 2.7    | Single                      | 90T3.5  | 0.2        | 3.0    | Single                      |
|           | 0.4        | 2.6    | Single                      |         | 0.4        | 3.0    | Single                      |
| 55T4.0    | 0.8        | 2.7    | Single                      |         | 0.8        | 3.0    | Single                      |
| 55T5.0    | 0.2        | 4.2    | Multi                       | 90T5.0  | 1.2        | 3.0    | Single                      |
|           | 0.4        | 4.1    | Multi                       |         | 0.2        | 4.5    | Multi                       |
| 55T(R0.8) | 0.8        | 4.05   | Multi                       |         | 0.4        | 4.5    | Multi                       |
| 55T(R1.2) | 1.2        | 4.1    | Multi                       |         | 0.8        | 4.5    | Multi                       |
| 60T3.5    | 0.2        | 2.8    | Single                      | 1.2     | 4.5        | Multi  |                             |
|           | 0.4        | 2.7    | Single                      |         |            |        |                             |
| 60T4.0    | 0.8        | 2.9    | Single                      |         |            |        |                             |
| 60T(R1.2) | 1.2        | 2.85   | Single                      |         |            |        |                             |
| 60T5.0    | 0.2        | 4.3    | Multi                       |         |            |        |                             |
|           | 0.4        | 4.15   | Multi                       |         |            |        |                             |
| 60T(R0.8) | 0.8        | 4.1    | Multi                       |         |            |        |                             |
| 60T(R1.2) | 1.2        | 4.25   | Multi                       |         |            |        |                             |

EN Example **CCXW 120402FR**  
 DE Beispiel **CCXW 120402FR**  
 FR Exemple **CCXW 120402FR**  
 IT Esempio **CCXW 120402FR**  
 ES Ejemplo **CCXW 120402FR**

EN ISO Insert Nomenclature  
 DE ISO Schneidplatten-Nomenklatur  
 FR Nomenclature ISO pour les plaques de coupe  
 IT Nomenclatura ISO per inserti da taglio  
 ES Nomenclatura ISO para la placa de corte


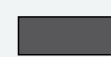










### 3. Tolerance class (in mm)



|                | m              | s       | d                           |
|----------------|----------------|---------|-----------------------------|
| A              | ± 0.005        | ± 0.025 | ± 0.025                     |
| F              | ± 0.005        | ± 0.025 | ± 0.013                     |
| C              | ± 0.013        | ± 0.025 | ± 0.025                     |
| H              | ± 0.013        | ± 0.025 | ± 0.013                     |
| E              | ± 0.005        | ± 0.025 | ± 0.025                     |
| G              | ± 0.025        | ± 0.130 | ± 0.025                     |
| J              | ± 0.005        | ± 0.025 | ± 0.05 to 0.15 <sup>1</sup> |
| K              | ± 0.013        | ± 0.025 | ± 0.05 to 0.15 <sup>1</sup> |
| L              | ± 0.025        | ± 0.025 | ± 0.05 to 0.15 <sup>1</sup> |
| M <sup>1</sup> | ±0.08 to ±0.20 | ± 0.130 | ± 0.05 to 0.15 <sup>1</sup> |
| N <sup>1</sup> | ±0.08 to ±0.20 | ± 0.25  | ± 0.05 to 0.15 <sup>1</sup> |
| U <sup>1</sup> | ±0.13 to ±0.38 | ± 0.130 | ± 0.08 to 0.15 <sup>1</sup> |
| X              | Blank          |         |                             |

### 4. Insert type

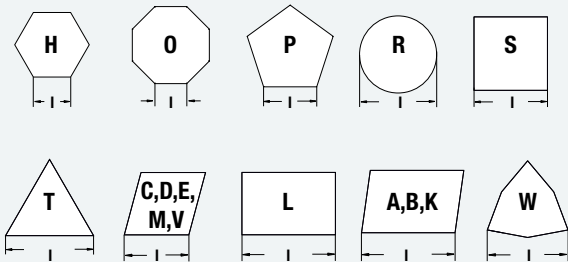
|   |   |   |
|---|---|---|
| N |  |  |
| F |  |   |
| R |  |   |
| A |  |  |
| G |  |   |
| M |  |   |
| W |  |   |
| T |  |   |
| X | Special design  |   |

<sup>1</sup> Exact tolerance is determined by the size of the insert.

EN ISO Insert Nomenclature  
 DE ISO Schneidplatten-Nomenklatur  
 FR Nomenclature ISO pour les plaques de coupe  
 IT Nomenclatura ISO per inserti da taglio  
 ES Nomenclatura ISO para la placa de corte

EN Example **CCXW 120402FR**  
 DE Beispiel **CCXW 120402FR**  
 FR Exemple **CCXW 120402FR**  
 IT Esempio **CCXW 120402FR**  
 ES Ejemplo **CCXW 120402FR**

### 5. Insert size



If less than 10, use 0 in first place  
 (example: 9.525 mm = 09)

### 6. Thickness in mm



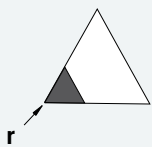
|    |          |
|----|----------|
| 01 | s = 1.59 |
| T1 | s = 1.98 |
| 02 | s = 2.38 |
| 03 | s = 3.18 |
| T3 | s = 3.97 |
| 04 | s = 4.76 |
| 05 | s = 5.56 |
| 06 | s = 6.35 |

If less than 10, use 0 in first place  
 (example: 3.18 mm = 03)



### 7. Corner configuration

#### 1) Radius



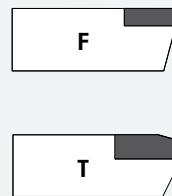
|    |                        |
|----|------------------------|
| 00 | = sharp corner         |
| 02 | = 0.2 mm               |
| 04 | = 0.4 mm               |
| 08 | = 0.8 mm               |
| 12 | = 1.2 mm               |
| 16 | = 1.6 mm               |
| 00 | = round insert (inch)  |
| M0 | = round insert (metr.) |

#### 2) For milling inserts Major cutting edge angle:

|         |         |
|---------|---------|
| A - 45° | A - 3°  |
| D - 60° | B - 5°  |
| E - 75° | C - 7°  |
| F - 85° | D - 15° |
| P - 90° | E - 20° |
|         | F - 25° |
|         | G - 30° |
|         | N - 0°  |
|         | P - 11° |

XX = blank,  
r = max. 0.3 mm

### 8. Cutting edge condition



### 9. Cutting direction

