

# Positive

Positive Insert with Hole

How to read this page **B13**

| Part Number | Applicable Toolholder Page | Part Number | Applicable Toolholder Page |
|-------------|----------------------------|-------------|----------------------------|
| TP..1515_   | <b>E29, F53, F55</b>       | TP..22_     | <b>E29, F53-F55</b>        |
| TP..1815_   | <b>F53, F55</b>            | TP..32_     | <b>F53, F55</b>            |

| Edge Prep.    |                    | N                                      |      | S   |       | PCD                                 |           | Toolholder Page |  |        |
|---------------|--------------------|--|------|---|-------|-------------------------------------|-----------|-----------------|--|--------|
|               |                    | Non-Ferrous Metals (with Interruption) |      | Non-Ferrous Metals (without Interruption) |       | Titanium Alloys (with Interruption) |           |                 | Titanium Alloys (without Interruption) |        |
| All PCD Items | Sharp Edge         | Dimensions (in)                        |      |   |       |                                     | Angle (°) |                 | No. of Edges                           | KPD001 |
| Insert        | ANSI Part Number   | ISO Part Number                        | A    | T   | Ød    | rε                                  | S         | α               |  |        |
|               | TPGB 151505NE      | TPGB 080202NE                          | 3/16 | 3/32                                      | 0.098 | 0.008                               | 0.087     |                 |  |        |
|               | 15151NE            | 080204NE                               | 3/16 | 3/32                                      | 0.098 | 1/64                                | 0.083     | 11°             | 1                                      | ○      |
|               | 15152NE            | 080208NE                               | 3/16 | 3/32                                      | 0.098 | 1/32                                | 0.071     |                 |  | ○      |
|               | TPGB 181505NE      | TPGB 090202NE                          | 7/32 | 3/32                                      | 0.118 | 0.008                               | 0.106     |                 |  | ○      |
|               | 18151NE            | 090204NE                               | 7/32 | 3/32                                      | 0.118 | 1/64                                | 0.102     | 11°             | 1                                      | ○      |
|               | 18152NE            | 090208NE                               | 7/32 | 3/32                                      | 0.118 | 1/32                                | 0.091     |                 |  | ○      |
|               | TPGB 2205NE        | TPGB 110302NE                          | 1/4  | 1/8                                       | 0.130 | 0.008                               | 0.134     |                 |  | ○      |
|               | 221NE              | 110304NE                               | 1/4  | 1/8                                       | 0.130 | 1/64                                | 0.130     | 11°             | 1                                      | ○      |
|               | 222NE              | 110308NE                               | 1/4  | 1/8                                       | 0.130 | 1/32                                | 0.118     |                 |  | ○      |
|               | TPGB 321NE         | TPGB 160304NE                          | 3/8  | 1/8                                       | 0.177 | 1/64                                | 0.126     |                 |  | ○      |
|               | 322NE              | 160308NE                               | 3/8  | 1/8                                       | 0.177 | 1/32                                | 0.114     |                 |  | ○      |
|               | TPGB 151505        | TPGB 80202                             | 3/16 | 3/32                                      | 0.098 | 0.008                               | 0.102     |                 |  | ○      |
|               | 15151              | 80204                                  | 3/16 | 3/32                                      | 0.098 | 1/64                                | 3/32      | 11°             | 1                                      | ○      |
|               | TPGB 181505        | TPGB 90202                             | 7/32 | 3/32                                      | 0.118 | 0.008                               | 0.126     |                 |  | ○      |
| 18151         | 90204              | 7/32                                   | 3/32 | 0.118                                     | 1/64  | 0.118                               | 11°       | 1               | ○                                      |        |
| TPGB 2205     | TPGB 110302        | 1/4                                    | 1/8  | 0.130                                     | 0.008 | 0.154                               |           |                 | ○                                      |        |
| 221           | 110304             | 1/4                                    | 1/8  | 0.130                                     | 1/64  | 0.146                               | 11°       | 1               | ○                                      |        |
| 222           | 110308             | 1/4                                    | 1/8  | 0.130                                     | 1/32  | 0.134                               |           |                 | ○                                      |        |
|               | TPMH 151505SE      | TPMH 080202SE                          | 3/16 | 3/32                                      | 0.098 | 0.008                               | 0.079     |                 |  | ○      |
|               | <b>NEW</b> 15151SE | 080204SE                               | 3/16 | 3/32                                      | 0.098 | 1/64                                | 0.071     | 11°             | 1                                      | ○      |
|               | TPMH 181505SE      | TPMH 090202SE                          | 7/32 | 3/32                                      | 0.118 | 0.008                               | 3/32      |                 |  | ○      |
|               | <b>NEW</b> 18151SE | 090204SE                               | 7/32 | 3/32                                      | 0.118 | 1/64                                | 0.087     | 11°             | 1                                      | ○      |
|               | TPMH 2202SE        | TPMH 110301SE                          | 1/4  | 1/8                                       | 0.130 | 0.004                               | 0.106     |                 |  | ○      |
|               | 2205SE             | 110302SE                               | 1/4  | 1/8                                       | 0.130 | 0.008                               | 0.102     | 11°             | 1                                      | ○      |
|               | 221SE              | 110304SE                               | 1/4  | 1/8                                       | 0.130 | 1/64                                | 0.098     |                 |  | ○      |
|               | TPMH 3205SE        | TPMH 160302SE                          | 3/8  | 1/8                                       | 0.177 | 0.008                               | 0.102     |                 |  | ○      |
|               | 321SE              | 160304SE                               | 3/8  | 1/8                                       | 0.177 | 1/64                                | 3/32      | 11°             | 1                                      | ○      |
|               | 322SE              | 160308SE                               | 3/8  | 1/8                                       | 0.177 | 1/32                                | 0.118     |                 |  | ○      |
|               | TPMH 151502NE      | TPMH 080201NE                          | 3/16 | 3/32                                      | 0.098 | 0.004                               | 0.091     |                 |  | ○      |
|               | 151505NE           | 080202NE                               | 3/16 | 3/32                                      | 0.098 | 0.008                               | 0.087     | 11°             | 1                                      | ○      |
|               | 15151NE            | 080204NE                               | 3/16 | 3/32                                      | 0.098 | 1/64                                | 0.083     |                 |  | ○      |
|               | TPMH 181502NE      | TPMH 090201NE                          | 7/32 | 3/32                                      | 0.118 | 0.004                               | 0.106     |                 |  | ○      |
|               | 181505NE           | 090202NE                               | 7/32 | 3/32                                      | 0.118 | 0.008                               | 0.102     | 11°             | 1                                      | ○      |
|               | 18151NE            | 090204NE                               | 7/32 | 3/32                                      | 0.118 | 1/64                                | 0.098     |                 |  | ○      |
|               | 18152NE            | 090208NE                               | 7/32 | 3/32                                      | 0.118 | 1/32                                | 0.087     |                 |  | ○      |
|               | TPMH 2202NE        | TPMH 110301NE                          | 1/4  | 1/8                                       | 0.130 | 0.004                               | 0.134     |                 |  | ○      |
|               | 2205NE             | 110302NE                               | 1/4  | 1/8                                       | 0.130 | 0.008                               | 0.130     | 11°             | 1                                      | ○      |
|               | 221NE              | 110304NE                               | 1/4  | 1/8                                       | 0.130 | 1/64                                | 0.126     |                 |  | ○      |
|               | 222NE              | 110308NE                               | 1/4  | 1/8                                       | 0.130 | 1/32                                | 0.114     |                 |  | ○      |
|               | TPMH 321NE         | TPMH 160304NE                          | 3/8  | 1/8                                       | 0.177 | 1/64                                | 0.130     |                 |  | ○      |
|               | 322NE              | 160308NE                               | 3/8  | 1/8                                       | 0.177 | 1/32                                | 0.118     |                 |  | ○      |
|               | TPMH 151502        | TPMH 80201                             | 3/16 | 3/32                                      | 0.098 | 0.004                               | 0.102     |                 |  | ○      |
|               | 151505             | 80202                                  | 3/16 | 3/32                                      | 0.098 | 0.008                               | 0.098     | 11°             | 1                                      | ○      |
|               | 15151              | 80204                                  | 3/16 | 3/32                                      | 0.098 | 1/64                                | 0.091     |                 |  | ○      |
|               | TPMH 181502        | TPMH 90201                             | 7/32 | 3/32                                      | 0.118 | 0.004                               | 0.118     |                 |  | ○      |
|               | 181505             | 90202                                  | 7/32 | 3/32                                      | 0.118 | 0.008                               | 0.114     | 11°             | 1                                      | ○      |
|               | 18151              | 90204                                  | 7/32 | 3/32                                      | 0.118 | 1/64                                | 0.110     |                 |  | ○      |
|               | 18152              | 90208                                  | 7/32 | 3/32                                      | 0.118 | 1/32                                | 0.098     |                 |  | ○      |
| TPMH 2202     | TPMH 110301        | 1/4                                    | 1/8  | 0.130                                     | 0.004 | 0.154                               |           |                 | ○                                      |        |
| 2205          | 110302             | 1/4                                    | 1/8  | 0.130                                     | 0.008 | 0.154                               | 11°       | 1               | ○                                      |        |
| 221           | 110304             | 1/4                                    | 1/8  | 0.130                                     | 1/64  | 0.146                               |           |                 | ○                                      |        |
| 222           | 110308             | 1/4                                    | 1/8  | 0.130                                     | 1/32  | 0.134                               |           |                 | ○                                      |        |
| TPMH 3205     | TPMH 160302        | 3/8                                    | 1/8  | 0.177                                     | 0.008 | 0.157                               |           |                 | ○                                      |        |
| 321           | 160304             | 3/8                                    | 1/8  | 0.177                                     | 1/64  | 0.150                               | 11°       | 1               | ○                                      |        |
| 322           | 160308             | 3/8                                    | 1/8  | 0.177                                     | 1/32  | 0.142                               |           |                 | ○                                      |        |

Reference Table Above

|             |          |
|-------------|----------|
| GRADES      | <b>A</b> |
| INSERTS     | <b>B</b> |
| CBN & PCD   | <b>C</b> |
| TOOLHOLDERS | <b>D</b> |
| SMALL TOOLS | <b>E</b> |
| BORING      | <b>F</b> |
| GROOVING    | <b>G</b> |
| CUT-OFF     | <b>H</b> |
| THREADING   | <b>J</b> |
| HSK TOOLING | <b>N</b> |
| SPARE PARTS | <b>P</b> |
| TECHNICAL   | <b>R</b> |
| INDEX       | <b>T</b> |