
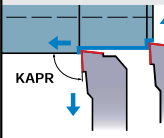
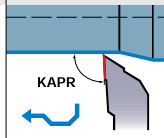
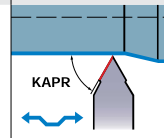
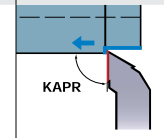
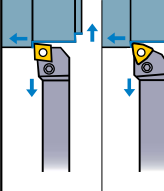
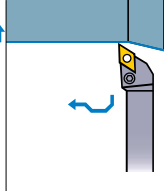

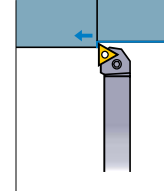

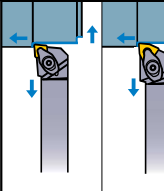
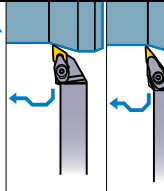
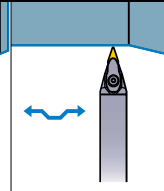
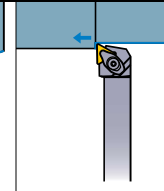
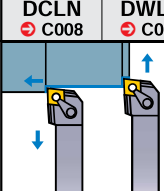
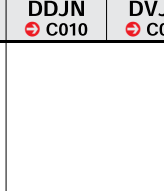
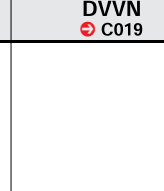
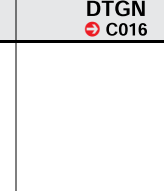

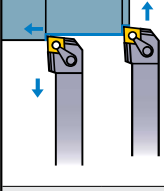

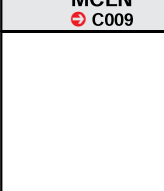
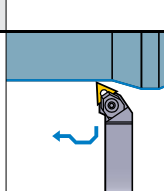

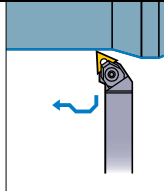

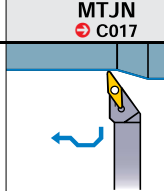
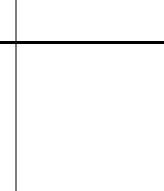

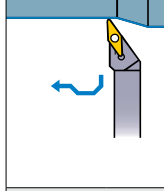

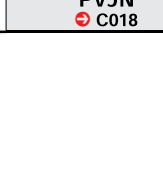
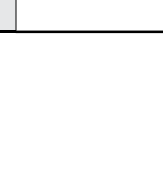


# CLASSIFICATION(Negative insert)

C

EXTERNAL TURNING TOOLS

| Tool Holder   | Features<br>Shank Size (H x W x L)   | External Turning Facing  |                       | External Turning Copying |                       | External Turning      |                       |                       |
|---|--|--|-----------------------|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   |  | KAPR=95°   | KAPR=93°              | KAPR=72.5°               | KAPR=91°              |                       |                       |                       |
| <b>LL Holder</b><br> <ul style="list-style-type: none"> <li>● Lever lock type.</li> <li>● ISO standard.</li> <li>● Various holder shapes.</li> <li>● Suitable for light to heavy cutting.</li> <li>● Economical negative insert.</li> </ul> <p>10 x 10 x 70 25 x 25 x 150<br/>12 x 12 x 80 32 x 25 x 170<br/>16 x 16 x 100 32 x 32 x 170<br/>20 x 20 x 125</p> | <br><br><br> | <br><br><br>     | <b>PCLN</b><br>↻ C008 | <b>PWLN</b><br>↻ C021    | <b>PDJN</b><br>↻ C010 | <b>PTGN</b><br>↻ C016 |                       |                       |
| <b>DOUBLE CLAMP Holder</b><br> <ul style="list-style-type: none"> <li>● New double clamp type.</li> <li>● Holds inserts securely.</li> <li>● Excellent cutting edge tolerance.</li> <li>● Economical negative insert.</li> <li>● Small insert series.</li> </ul> <p>16 x 16 x 100 25 x 25 x 150<br/>20 x 20 x 125 32 x 25 x 170</p>                            | <br><br><br> | <br><br><br> | <b>DCLN</b><br>↻ C008 | <b>DWLN</b><br>↻ C021    | <b>DDJN</b><br>↻ C010 | <b>DVJN</b><br>↻ C018 | <b>DVVN</b><br>↻ C019 | <b>DTGN</b><br>↻ C016 |
| <b>DOUBLE CLAMP Holder</b><br>(For heavy cutting)<br> <ul style="list-style-type: none"> <li>● Double clamp holder type.</li> <li>● Holds inserts securely.</li> <li>● Suitable for heavy cutting.</li> <li>● Negative insert.</li> </ul> <p>32 x 32 x 170<br/>40 x 40 x 200</p>   | <br>   | <br>   | <b>MCLN</b><br>↻ C009 |                          |                       |                       |                       |                       |
| <b>WP Holder</b><br> <ul style="list-style-type: none"> <li>● Double clamp holder type.</li> <li>● Simple insert exchange.</li> <li>● Economical negative insert.</li> </ul> <p>20 x 20 x 125<br/>25 x 25 x 150</p>  | <br>   | <br>   |                       |                          | <b>MTJN</b><br>↻ C017 |                       |                       |                       |
| <b>MP Holder</b><br> <ul style="list-style-type: none"> <li>● Pin lock type.</li> <li>● 35° rhombic shape insert.</li> <li>● Suitable for recessing.</li> </ul> <p>20 x 20 x 125<br/>25 x 25 x 150</p>   | <br>   | <br>   |                       |                          | <b>PVJN</b><br>↻ C018 | <b>PVVN</b><br>↻ C019 |                       |                       |


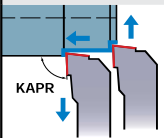
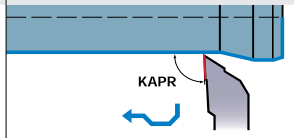
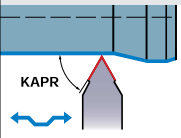

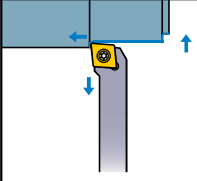
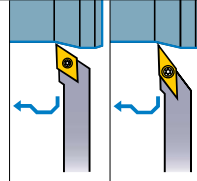
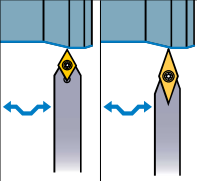

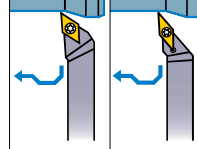
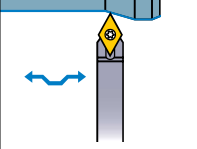


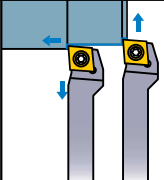
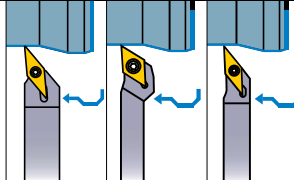
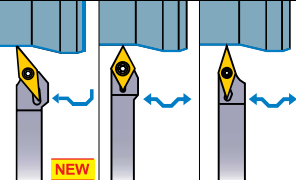

|  | External Turning | External Turning, Chamfering |                | External Turning, Facing, Chamfering | Facing         |                | Facing, Copying       | External Turning, Copying            | Selection Standard |                                       |                |                      |             |  |
|--|------------------|------------------------------|----------------|--------------------------------------|----------------|----------------|-----------------------|--------------------------------------|--------------------|---------------------------------------|----------------|----------------------|-------------|--|
|  | KAPR=75°         | KAPR=60°                     | KAPR=45°       | KAPR=45°                             | KAPR=75°       | KAPR=91°       | KAPR=107.5°<br>117.5° | Special Design<br>(Positive inserts) | Economical         | Low Cutting Resistance<br>(Sharpness) | Clamp Rigidity | Operation Efficiency | Specialised |  |
|  |                  |                              |                |                                      |                |                |                       |                                      |                    |                                       |                |                      |             |  |
|  | PCBN<br>⊕ C009   | PSBN<br>⊕ C012               | PSTN<br>⊕ C013 | PSDN<br>⊕ C014                       | PSSN<br>⊕ C013 | PSKN<br>⊕ C015 | PTFN<br>⊕ C017        | PDHN<br>⊕ C011                       | PRGC<br>⊕ C024     | PRDC<br>⊕ C024                        |                |                      |             |  |
|  |                  |                              |                |                                      |                |                |                       |                                      |                    |                                       |                |                      |             |  |
|  |                  |                              |                |                                      |                |                |                       | DVPN<br>⊕ C020                       |                    |                                       |                |                      |             |  |
|  |                  |                              |                |                                      |                |                |                       |                                      |                    |                                       |                |                      |             |  |
|  | MSBN<br>⊕ C012   |                              |                | MSSN<br>⊕ C014                       |                |                |                       |                                      |                    |                                       |                |                      |             |  |
|  |                  |                              |                |                                      |                |                |                       |                                      |                    |                                       |                |                      |             |  |
|  |                  |                              |                |                                      |                |                |                       |                                      |                    |                                       |                |                      |             |  |
|  |                  |                              |                |                                      |                |                |                       | PVPN<br>⊕ C020                       |                    |                                       |                |                      |             |  |

Note 1) ⊕ : 1st recommendation. ○ : 2nd recommendation.

EXTERNAL TURNING TOOLS

# CLASSIFICATION(Positive insert)

EXTERNAL TURNING TOOLS

| Tool Holder   | Features<br>Shank Size (H x W x L)   | External Turning, Facing  |  | External Turning, Copying   |  |  |
|---|--|---|--|---|--|--|
|   |  | KAPR=95°  | KAPR=93°<br>95°  | KAPR=62.5°<br>72.5°   |  |  |
|    | <ul style="list-style-type: none"> <li>● Double clamp holder type.</li> <li>● 25° rhombic shape insert.</li> <li>● Possible to machine a face relief with up to 60° inclination.</li> </ul> 16 x 16 x 100<br>20 x 20 x 125<br>25 x 25 x 150  |    |    |    |  |  |
|    | <ul style="list-style-type: none"> <li>● Screw-on type.</li> <li>● Miniature holder with 7° positive insert.</li> </ul> 8 x 8 x 60<br>10 x 10 x 70<br>12 x 12 x 80<br>16 x 16 x 100<br>20 x 20 x 125<br>25 x 25 x 150  |    |    |    |  |  |
|  | <ul style="list-style-type: none"> <li>● Screw-on type.</li> <li>● 20° positive insert. (35° rhombic shape insert is 15°)</li> <li>● High rake and good sharpness.</li> </ul> 16 x 16 x 100<br>20 x 20 x 125<br>25 x 25 x 150  |   |   |   |  |  |
|  | <ul style="list-style-type: none"> <li>● Taper lock type</li> <li>● Excellent finished surface with round shape insert.</li> </ul> 20 x 20 x 125<br>25 x 25 x 150<br>32 x 25 x 170   |   |  |   |  |  |
|  | <ul style="list-style-type: none"> <li>● Screw-on type.</li> <li>● Tools to be equipped on gang type tool posts.</li> <li>● Miniature holder with 7° positive insert.</li> </ul> 8 x 8 x 125<br>10 x 10 x 125<br>12 x 12 x 150<br>16 x 16 x 150  |  |  |  |  |  |
|  | <ul style="list-style-type: none"> <li>● Screw-on type.</li> <li>● Tools to be equipped on gang type tool posts.</li> <li>● High rigidity due to designing of vertical insert. (BTA/CTB type)</li> <li>● Back machining. (BTA/CTB type)</li> </ul> 8 x 10 x 120<br>10 x 10 x 120<br>12 x 12 x 120<br>16 x 16 x 120 |   |  |   |  |  |