
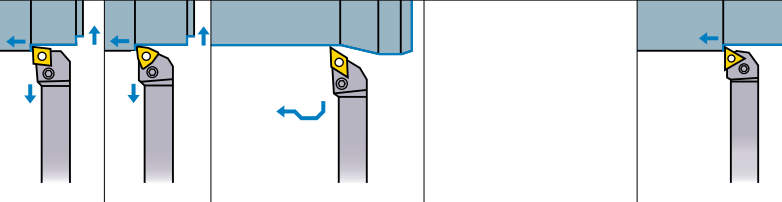

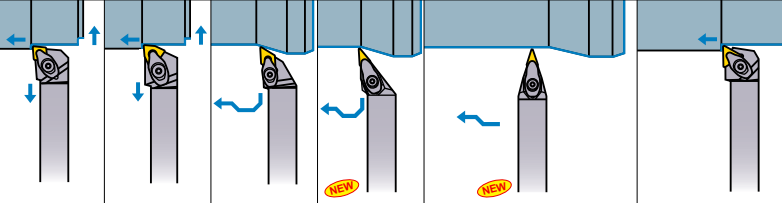

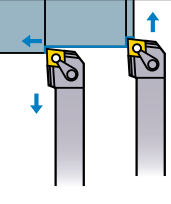

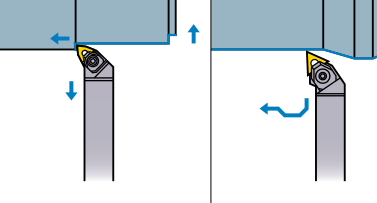

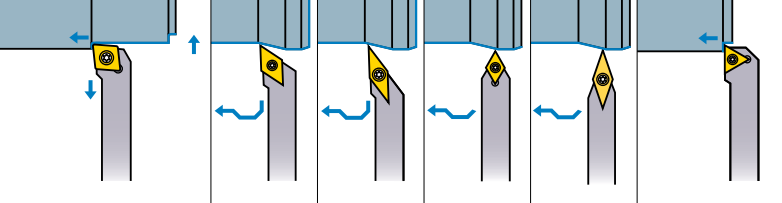

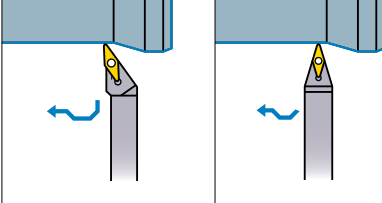


# CLASSIFICATION

CLASSIFICATION

| Tool Holder   | Features<br>Shank Size (H x W x L)   | External Turning Facing    |                       | External Turning Copying              |                       | External Turning      |                       |  |
|---|--|----------------------------|-----------------------|---------------------------------------|-----------------------|-----------------------|-----------------------|--|
|   |  | $\theta=99^\circ-95^\circ$ | $\theta=93^\circ$     | $\theta=63^\circ30'$<br>$72^\circ30'$ | $\theta=90^\circ$     |                       |                       |  |
| <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> 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 |    | <b>PCLN</b><br>↗ A168      | <b>PWLN</b><br>↗ A182 | <b>PDJN</b><br>↗ A170                 |                       | <b>PTGN</b><br>↗ A176 |                       |  |
| <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> 16 x 16 x 100 25 x 25 x 150<br>20 x 20 x 125 32 x 25 x 170                         |    | <b>DCLN</b><br>↗ A168      | <b>DWLN</b><br>↗ A182 | <b>DDJN</b><br>↗ A170                 | <b>DVJN</b><br>↗ A179 | <b>DVVN</b><br>↗ A180 | <b>DTGN</b><br>↗ A177 |  |
| <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> 32 x 32 x 170<br>40 x 40 x 200   |   | <b>MCLN</b><br>↗ A169      |                       |                                       |                       |                       |                       |  |
| <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> 20 x 20 x 125<br>25 x 25 x 150<br>32 x 25 x 170   |   | <b>MWLN</b><br>↗ A183      | <b>MTJN</b><br>↗ A176 |                                       |                       |                       |                       |  |
| <b>SP Holder</b><br> <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   |  | <b>SCLC</b><br>↗ A184      | <b>SDJC</b><br>↗ A185 | <b>SVJC</b><br>↗ A188                 | <b>SDNC</b><br>↗ A185 | <b>SVVC</b><br>↗ A188 | <b>STGC</b><br>↗ A187 |  |
| <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> 20 x 20 x 125<br>25 x 25 x 150   |  |                            | <b>PVJN</b><br>↗ A179 | <b>PVVN</b><br>↗ A180                 |                       |                       |                       |  |


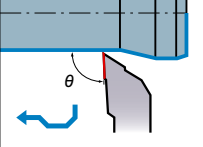
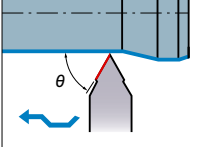
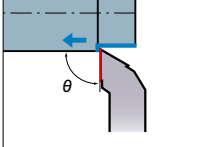



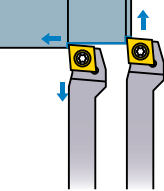
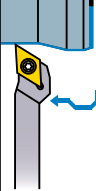
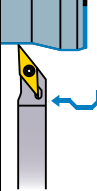
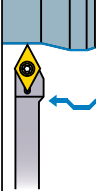
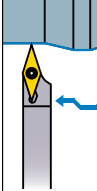


|  | External Turning  |                   | External Turning, Chamfering |                   | External Turning, Facing, Chamfering |                           | Facing              |                | Facing Copying |                | External Turning, Copying |  | Selection Standard |                                    |                |                      |             |  |
|--|-------------------|-------------------|------------------------------|-------------------|--------------------------------------|---------------------------|---------------------|----------------|----------------|----------------|---------------------------|--|--------------------|------------------------------------|----------------|----------------------|-------------|--|
|  | $\theta=75^\circ$ | $\theta=60^\circ$ | $\theta=45^\circ$            | $\theta=45^\circ$ | $\theta=15^\circ$                    | $\theta=0^\circ -1^\circ$ | $\theta=10^\circ -$ | Special Design |                |                |                           |  | Economical         | Low Cutting Resistance (Sharpness) | Clamp Rigidity | Operation Efficiency | Specialised |  |
|  |                   |                   |                              |                   |                                      |                           |                     |                |                |                |                           |  |                    |                                    |                |                      |             |  |
|  | PCBN<br>↔ A169    | PSBN<br>↔ A172    | PSTN<br>↔ A173               | PSDN<br>↔ A173    | PSSN<br>↔ A174                       | PSKN<br>↔ A175            | PTFN<br>↔ A178      | PDHN<br>↔ A171 | PRGC<br>↔ A190 | PRDC<br>↔ A190 |                           |  |                    |                                    |                |                      |             |  |
|  |                   |                   |                              |                   |                                      |                           |                     |                |                |                |                           |  |                    |                                    |                |                      |             |  |
|  |                   |                   |                              |                   |                                      |                           |                     | DVPN<br>↔ A181 |                |                |                           |  |                    |                                    |                |                      |             |  |
|  |                   |                   |                              |                   |                                      |                           |                     |                |                |                |                           |  |                    |                                    |                |                      |             |  |
|  | MSBN<br>↔ A172    |                   | MSSN<br>↔ A174               |                   |                                      |                           |                     |                |                |                |                           |  |                    |                                    |                |                      |             |  |
|  |                   |                   |                              |                   |                                      |                           |                     |                |                |                |                           |  |                    |                                    |                |                      |             |  |
|  |                   | MTEN<br>↔ A177    |                              |                   |                                      |                           |                     |                | MTQN<br>↔ A178 |                |                           |  |                    |                                    |                |                      |             |  |
|  |                   |                   |                              |                   |                                      |                           |                     |                |                |                |                           |  |                    |                                    |                |                      |             |  |
|  |                   |                   |                              |                   | SSSC<br>↔ A186                       |                           | STFC<br>↔ A187      | SVPC<br>↔ A189 | SRGC<br>↔ A191 | SRDC<br>↔ A191 |                           |  |                    |                                    |                |                      |             |  |
|  |                   |                   |                              |                   |                                      |                           |                     |                |                |                |                           |  |                    |                                    |                |                      |             |  |
|  |                   |                   |                              |                   |                                      |                           |                     | PVPN<br>↔ A181 |                |                |                           |  |                    |                                    |                |                      |             |  |

(Note) ◎ : 1st recommendation. ○ : 2nd recommendation.

# CLASSIFICATION

CLASSIFICATION

EXTERNAL TURNING

| Tool Holder  | Features<br>Shank Size<br>(H x W x L)   | External Turning Facing   | External Turning Copying  |  |   | External Turning  |   |
|--|---|---|---|--|---|---|---|
|  |   | $\theta=99^\circ - 95^\circ$  | $\theta=93^\circ$   | $\theta=63^\circ 30'$<br>$72^\circ 30'$  | $\theta=90^\circ$   |   |   |
| <b>AL Holder</b><br>                                  | <ul style="list-style-type: none"> <li>Screw-on type.</li> <li>20° positive insert. (35° rhombic shape insert is 15° type)</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  |   |   |   |    |   |   |
|  |   |   | <b>SDJE</b><br>↔ A192   | <b>SVJD</b><br>↔ A194  | <b>SDNE</b><br>↔ A192   | <b>STGE</b><br>↔ A193   |   |
| <b>TL Holder</b><br>                                 | <ul style="list-style-type: none"> <li>Taper lock type.</li> <li>Excellent finish surface with round shape insert.</li> </ul> 20 x 20 x 125<br>25 x 25 x 150<br>32 x 25 x 170   |   |   |  |   |   |   |
| <b>ROTARY Holder</b><br>                            | <ul style="list-style-type: none"> <li>Special clamp type.</li> <li>Special holder for difficult-to-cut materials.</li> </ul> 25 x 25 x 150<br>32 x 32 x 170<br>40 x 40 x 200   |   |   |  |   |   |   |
| <b>SMALL TOOLS</b><br>(Tools for front turning)<br> | <ul style="list-style-type: none"> <li>Screw-on type.</li> <li>Tools to be used 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   |  |  |  |  |  |  |
|  |   | <b>SCLC-SM</b><br>↔ A206  | <b>SDJC-SM</b><br>↔ A207  | <b>SVJB-SM</b><br>↔ A208   | <b>SDNC-SM</b><br>↔ A207  | <b>SVVB-SM</b><br>↔ A208  | <b>SCAC-SM</b><br>↔ A206  |
| <b>SMALL TOOLS</b><br>(Tools for back turning)<br>  | <ul style="list-style-type: none"> <li>Screw-on type.</li> <li>Tools to be used on gang type tool posts.</li> <li>High rigidity due to the design of the 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 |   |   |  |   |   |   |

| External Turning | External Turning, Chamfering |                   |                   | External Turning, Facing, Chamfering |                   | Facing         | Facing Copying | External Turning, Copying | Selection Standard          |                     |                |            |                                    |                |
|------------------|------------------------------|-------------------|-------------------|--------------------------------------|-------------------|----------------|----------------|---------------------------|-----------------------------|---------------------|----------------|------------|------------------------------------|----------------|
|                  | $\theta=75^\circ$            | $\theta=60^\circ$ | $\theta=45^\circ$ | $\theta=45^\circ$                    | $\theta=15^\circ$ |                |                |                           | $\theta=0^\circ - -1^\circ$ | $\theta=10^\circ -$ | Special Design | Economical | Low Cutting Resistance (Sharpness) | Clamp Rigidity |
|                  |                              |                   |                   |                                      |                   |                |                | Special Design            |                             |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   |                |                |                           |                             |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   | STFE<br>↔ A193 |                |                           |                             |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   |                |                |                           |                             |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   |                |                | TLHR<br>↔ A196            | TLHN<br>↔ A196              |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   |                |                |                           |                             |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   |                |                | RRSD<br>↔ A195            | RRSN<br>↔ A195              |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   |                |                |                           |                             |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   |                |                | Special Design            |                             |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   |                |                |                           |                             |                     |                |            |                                    |                |
|                  |                              |                   |                   |                                      |                   |                |                | BTAH<br>↔ A209            | CTBH<br>↔ A210              | BTVH<br>↔ A211      |                |            |                                    |                |

(Note) ◎ : 1st recommendation. ○ : 2nd recommendation.