

# **D**-type *double-clamping tool holder*

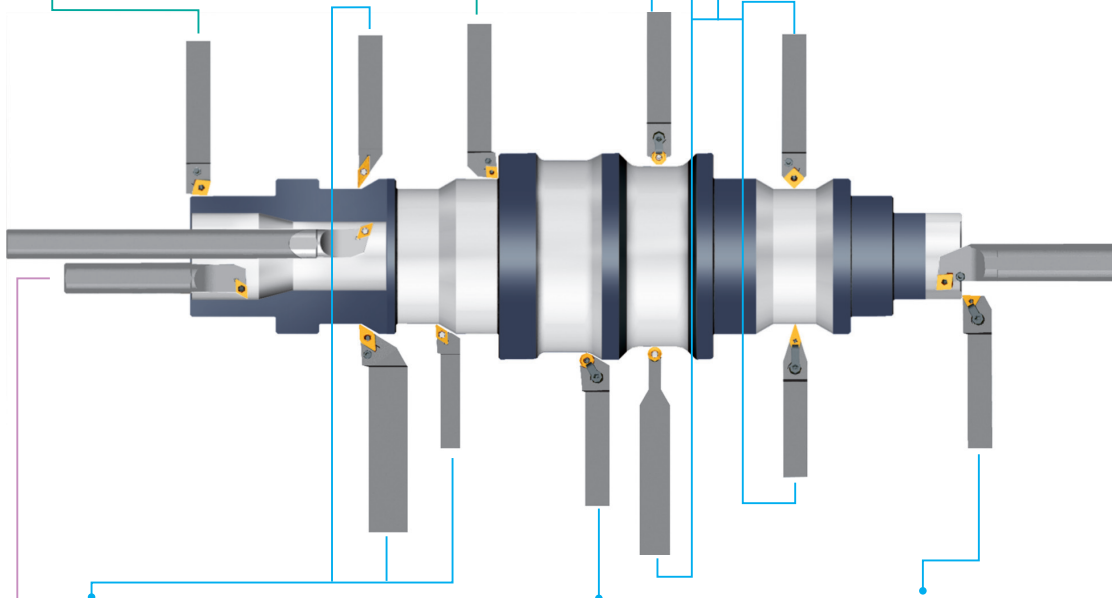


● External and internal turning

| External turning                                                                  | Tool holder type |           |           |           |           |           |           |
|-----------------------------------------------------------------------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|  | DTJNR/L□□        | DSBNR/L□□ | PCBNR/L□□ | PSBNR/L□□ | PSSNR/L□□ | PTGNR/L□□ | PTTNR/L□□ |
|                                                                                   | SCACR/L□□        | SSBCR/L□□ | SSSCR/L□□ | STACR/L□□ | STGCR/L□□ | STECR/L□□ | SWACR/L□□ |

| External and end surface turning                                                  | Tool holder type |           |
|-----------------------------------------------------------------------------------|------------------|-----------|
|  | DCLCR/L□□        | DWLNR/L□□ |
|                                                                                   | PCLNR/L□□        | PWLNR/L□□ |
|                                                                                   | SCLCR/L□□        |           |

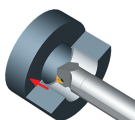
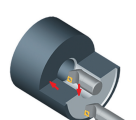
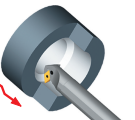
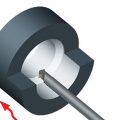
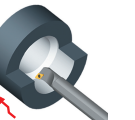
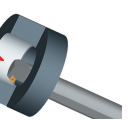
| Profile turning                                                                   | Tool holder type |         |         |         |
|-----------------------------------------------------------------------------------|------------------|---------|---------|---------|
|  | DVVNN□□          | PDPNN□□ | PSDNN□□ | SDNCN□□ |
|                                                                                   | SVVBN□□          | SVVCN□□ | SSDCN□□ | SRDCN□□ |
|                                                                                   | CKNNR/L□□        |         |         |         |

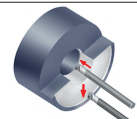
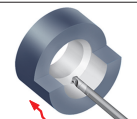
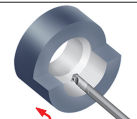


| Profile turning                                                                     | Tool holder type |           |           |
|-------------------------------------------------------------------------------------|------------------|-----------|-----------|
|  | DDJNR/L□□        | DVJNR/L□□ | PDJNR/L□□ |
|                                                                                     | SDACR/L□□        | SDJCR/L□□ | SVABR/L□□ |
|                                                                                     | SVJBR/L□□        | SVJCR/L□□ | CKJNR/L□□ |

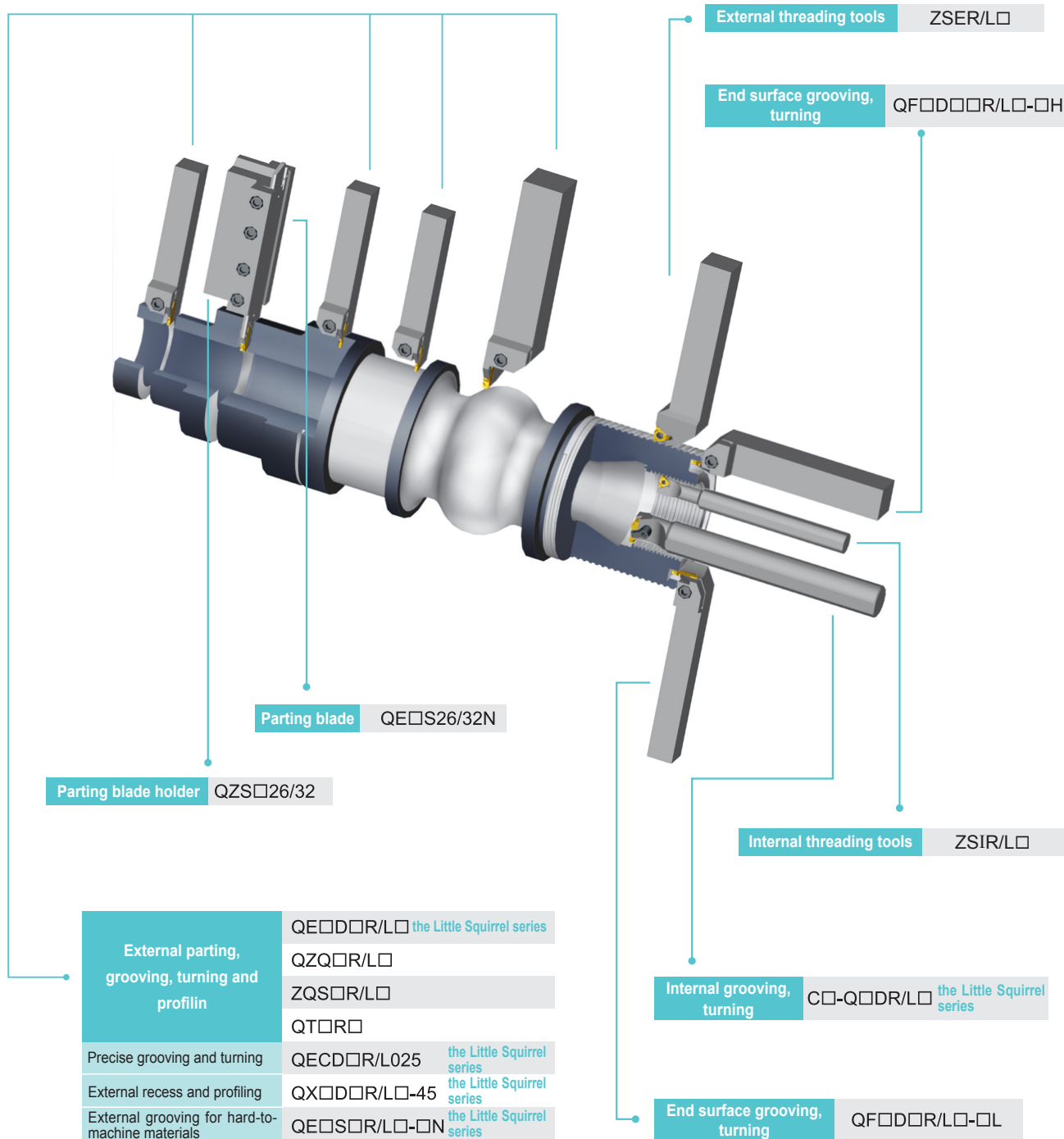
| Profile turning                                                                     | Tool holder type |
|-------------------------------------------------------------------------------------|------------------|
|  | SRGCR/L□□        |
|                                                                                     |                  |
|                                                                                     |                  |

| End surface turning                                                                   | Tool holder type |           |
|---------------------------------------------------------------------------------------|------------------|-----------|
|  | PSKNR/L□□        | PTFNR/L□□ |
|                                                                                       | SSKCR/L□□        | STFCR/L□□ |

| Tool holders for internal turning<br>(Steel tool shank) |  |  |  |  |  |  |
|---------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                         | S□-PSKNR/L□                                                                         | S□-PCLNR/L□                                                                         | S□-PDPNR/L□                                                                         | S□-PDUNR/L□                                                                          | S□-SDQCR/L□                                                                           | S□-SDZCR/L□                                                                           |
|                                                         | S□-PTFNR/L□                                                                         | S□-PWLNR/L□                                                                         |                                                                                     | S□-SDUCR/L□                                                                          | S□-SDQPR/L□                                                                           |                                                                                       |
|                                                         | S□-SCFCR□                                                                           | S□-SCLCR/L□                                                                         |                                                                                     | S□-SDUNR/L□                                                                          | S□-SVQBR/L□                                                                           |                                                                                       |
|                                                         | S□-SSKCR/L□                                                                         | S□-SCLPR/L□                                                                         |                                                                                     | S□-SDUPR/L□                                                                          | S□-SVQCR/L□                                                                           |                                                                                       |
|                                                         | S□-STFCR/L□                                                                         |                                                                                     |                                                                                     | S□-SVUBR/L□                                                                          |                                                                                       |                                                                                       |
|                                                         | S□-STUPR/L□                                                                         |                                                                                     |                                                                                     | S□-SVUCR/L□                                                                          |                                                                                       |                                                                                       |

| Tool holders for internal turning<br>(Cemented carbide tool shank) |  |  |  |  |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                                                    | C□-STUPR/L□                                                                         | C□-SCLPR/L□                                                                         | C□-SDUPR/L□<br>C□-SVUCR/L□                                                          | C□-SDQPR/L□<br>C□-SVQCR/L□                                                            |

### ● Parting, grooving and threading tools



## How to select external turning tools

## ■ Explanation of external turning tools detailed table

- Listed according to clamping types.

Approach angle of tools

Tools type

The first 4 letters in the type description stands for tool shape and application

Inserts type

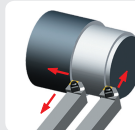
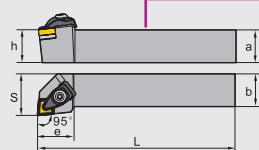
Specification chart

Application chart

The arrow shows suitable applications such as external turning, profiling and end turning, etc.

Corresponding tool holders of insert **CN** ☐ ☐ **D-type clamping**

**DCLNR/L**  
**Kr:95°**



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw   | Shim  | Wrench | Clamp | Shim screw  | Spring |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|---------|-------|--------|-------|-------------|--------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |         |       |        |       |             |        |
| <b>DCLNR/L</b> | <b>1616H09</b> | ▲     | △ | 16                   | 16 | 100 | 16 | 20 | 24 |         |       |        |       |             |        |
|                | <b>2020K09</b> | ▲     | △ | 20                   | 20 | 125 | 20 | 25 | 24 | CM5×22C | C09BM | WH30L  | C1RA  | SM5×8.65XA1 | SPR6   |
|                | <b>2525M09</b> | ▲     | △ | 25                   | 25 | 150 | 25 | 32 | 24 |         |       |        |       |             |        |
|                | <b>2020K12</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 28 |         |       |        |       |             |        |
|                | <b>2525M12</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 28 | CM6×25C | C12BM | WH40L  | C2RA  | SM6×10XA1   | SPR4   |
|                | <b>3225P12</b> | ▲     | ▲ | 32                   | 25 | 170 | 32 | 32 | 28 |         |       |        |       |             |        |

▲ Stock available    △ Make-to-order

| Applicable inserts |                            |                            |                                 |                     |                                   |                  |
|--------------------|----------------------------|----------------------------|---------------------------------|---------------------|-----------------------------------|------------------|
| Application        | For finishing              | For semi-finishing         | For roughing                    | For heavy machining | For cast iron machining           | PCBN&PCD inserts |
| Inserts shape      | <b>DF</b><br>Wiper<br>A54  | <b>WGM</b><br>Wiper<br>A55 | <b>DR</b><br>Double side<br>A58 | <b>HPR</b><br>A59   | <b>Without chipbreaker</b><br>A59 | <b>A121</b>      |
|                    | <b>WGF</b><br>Wiper<br>A54 | <b>PM</b><br>A55           | <b>DR</b><br>Single side<br>A58 |                     |                                   | <b>A121</b>      |
|                    | <b>SF</b><br>A54           | <b>DM</b><br>A56           | <b>ER</b><br>Double side<br>A58 |                     |                                   | <b>A121</b>      |
|                    | <b>EF</b><br>A54           | <b>EM</b><br>A56           | <b>ER</b><br>Single side<br>A58 |                     |                                   |                  |
|                    | <b>NF</b><br>A55           | <b>NM</b><br>A57           | <b>SNR</b><br>A58               |                     |                                   |                  |
|                    |                            |                            | <b>LR</b><br>Single side<br>A57 |                     |                                   |                  |
| Tool holder type   | <b>DCLNR/L00H/K/M09</b>    | CN□□0903□□                 | CN□□0903□□                      |                     |                                   |                  |
|                    | <b>DCLNR/L00K/M/P12</b>    | CN□□1204□□                 | CN□□1204□□                      | CN□□1204□□          | CN□□1204□□                        | CN□□1204□□       |

Products specification

Including product description, stock (left and right hand), basic dimensions and applicable spare parts.

Applicable inserts

Including applications of inserts, reference page, insert shape and corresponding tool holders.

# TURNING

## External Turning Tools

**A146-A149**

**External turning tools overview**

**A150-A151**

**External turning tools code key**

**A152-A194**

**Detailed table of external turning tools**

A152-A160

External turning tool holders by D type clamping

A161-A172

External turning tool holders by P type clamping

A173-A192

External turning tool holders by S type clamping

A193-A194

External turning tool holders by C type clamping

**A195**

**Detailed table of external turning tools (ceramic)**

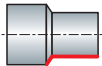
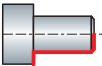
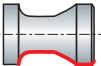
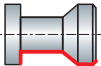
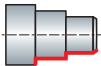
## External turning tools overview

| Clamping system | Tool type                                                                                   | Approach angle(K°) | Turning type                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | Applicable workpiece shape                                                          |                                                                                     | Page |
|-----------------|---------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|
|                 |                                                                                             |                    | External turning                                                                  | End surface turning                                                               | External and end surface turning                                                  | Profile turning                                                                   | Profile turning                                                                   | Profile turning                                                                    | Short, Thick                                                                        | Thin, Long                                                                          |      |
|                 |                                                                                             |                    |  |  |  |  |  |  |  |  |      |
| D               |  DCLNR/L   | 95                 |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A154 |
|                 |  DDJNR/L   | 93                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                    | ☺                                                                                   | ☺                                                                                   | A155 |
|                 |  DSBNR/L   | 75                 | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A156 |
|                 |  DTGNR/L  | 91                 | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   | ☺                                                                                   | A157 |
|                 |  DVVNN   | 72.5               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                  | ☺                                                                                   |                                                                                     | A158 |
|                 |  DVJNR/L | 93                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                    | ☺                                                                                   | ☺                                                                                   | A159 |
|                 |  DWLNR/L | 95                 |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A160 |
| P               |  PCBNR/L | 75                 | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A161 |
|                 |  PCLNR/L | 95                 |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A162 |
|                 |  PDJNR/L | 93                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                    | ☺                                                                                   | ☺                                                                                   | A163 |
|                 |  PDPNN   | 62.5               |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                  | ☺                                                                                   |                                                                                     | A164 |

☺ Recommended ☺ Available

| Clamping system | Tool type                                                                                   | Approach angle(Kr°) | Turning type                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | Applicable workpiece shape                                                          |                                                                                     | Page |
|-----------------|---------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|
|                 |                                                                                             |                     | External turning                                                                  | End surface turning                                                               | External and end surface turning                                                  | Profile turning                                                                   | Profile turning                                                                   | Profile turning                                                                    | Short, Thick                                                                        | Thin, Long                                                                          |      |
|                 |                                                                                             |                     |  |  |  |  |  |  |  |  |      |
| P               |  PSBNR/L   | 75                  | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A165 |
|                 |  PSDNN     | 45                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                  | ☺                                                                                   |                                                                                     | A166 |
|                 |  PSKNR/L   | 75                  |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A167 |
|                 |  PSSNR/L  | 45                  | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A168 |
|                 |  PTFNR/L | 90                  |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   | ☺                                                                                   | A169 |
|                 |  PTTNR/L | 60                  | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A170 |
|                 |  PTGNR/L | 90                  | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   | ☺                                                                                   | A171 |
|                 |  PWLNR/L | 95                  |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A172 |
| S               |  SCACR/L | 90                  | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   | ☺                                                                                   | A173 |
|                 |  SCLCR/L | 95                  |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   | ☺                                                                                   | A174 |
|                 |  SDACR/L | 90                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                    | ☺                                                                                   | ☺                                                                                   | A175 |

☺ Recommended ☺ Available

| Clamping system | Tool type                                                                                   | Approach angle (K $\alpha$ ) | Turning type                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | Applicable workpiece shape                                                          |                                                                                     | Page |
|-----------------|---------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|
|                 |                                                                                             |                              | External turning                                                                  | End surface turning                                                               | External and end surface turning                                                  | Profile turning                                                                   | Profile turning                                                                   | Profile turning                                                                     | Short, Thick                                                                        | Thin, Long                                                                          |      |
|                 |                                                                                             |                              |  |  |  |  |  |  |  |  |      |
| S               |  SDJCR/L   | 93                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                     | ☺                                                                                   | ☺                                                                                   | A176 |
|                 |  SDNCN     | 62.5                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                   | ☺                                                                                   | ☺                                                                                   | A177 |
|                 |  SVJBR/L   | 93                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                     | ☺                                                                                   | ☺                                                                                   | A178 |
|                 |  SVABR/L  | 90                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                     | ☺                                                                                   | ☺                                                                                   | A179 |
|                 |  SVVBN   | 72.5                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                   | ☺                                                                                   | ☺                                                                                   | A180 |
|                 |  SVVCN   | 72.5                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                   | ☺                                                                                   | ☺                                                                                   | A181 |
|                 |  SVJCR/L | 93                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                     | ☺                                                                                   | ☺                                                                                   | A182 |
|                 |  SSBCR/L | 75                           | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | ☺                                                                                   |                                                                                     | A183 |
|                 |  SSDCN   | 45                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                   | ☺                                                                                   |                                                                                     | A184 |
|                 |  SSKCR/L | 75                           |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     | ☺                                                                                   |                                                                                     | A185 |
|                 |  SSSCR/L | 45                           | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     | ☺                                                                                   |                                                                                     | A186 |

☺ Recommended

☹ Available

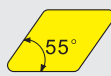
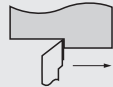
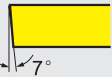
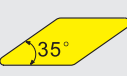
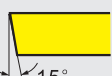
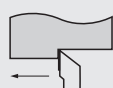
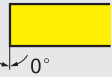
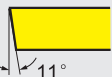
| Clamping system | Tool type                                                                                      | Approach angle(Kr°) | Turning type                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | Applicable workpiece shape                                                          |                                                                                     | Page |
|-----------------|------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|
|                 |                                                                                                |                     | External turning                                                                  | End surface turning                                                               | External and end surface turning                                                  | Profile turning                                                                   | Profile turning                                                                   | Profile turning                                                                    | Short, Thick                                                                        | Thin, Long                                                                          |      |
|                 |                                                                                                |                     |  |  |  |  |  |  |  |  |      |
| S               | STACR/L<br>   | 90                  | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   | ☺                                                                                   | A187 |
|                 | STFCR/L<br>   | 90                  |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A187 |
|                 | STGCR/L<br>   | 91                  | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   | ☺                                                                                   | A188 |
|                 | STECR/L<br>  | 60                  | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A189 |
|                 | SWACR/L<br> | 90                  | ☺                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | ☺                                                                                   | ☺                                                                                   | A190 |
|                 | SRDCN<br>   |                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                  | ☺                                                                                   |                                                                                     | A191 |
|                 | SRGCR/L<br> |                     |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                   |                                                                                    | ☺                                                                                   |                                                                                     | A192 |
| C               | CKJNR/L<br> | 93                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                 |                                                                                    | ☺                                                                                   |                                                                                     | A193 |
|                 | CKNNR/L<br> | 63                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | ☺                                                                                  | ☺                                                                                   |                                                                                     | A194 |
|                 |                                                                                                |                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |
|                 |                                                                                                |                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |      |

☺ Recommended ☺ Available

### External turning tools code key

General turning

External turning tools code key

| Clamping system                                                                                          | Insert shape                                                                           |                                                                                        | Clearance angle of insert                                                               | Cutting direction                                                                                              |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <br>D – double clamping | <br>C | <br>D | <br>B | <br>L - Left-hand           |
| <br>P – Hole clamping   | <br>R | <br>S | <br>C |                                                                                                                |
| <br>S – Screw on        | <br>T | <br>V | <br>D | <br>R - Right-hand          |
| <br>C – Top clamping    | <br>W |                                                                                        | <br>E |                                                                                                                |
|                                                                                                          |                                                                                        |                                                                                        | <br>N | <br>N - Right and left hand |
|                                                                                                          |                                                                                        |                                                                                        | <br>P |                                                                                                                |

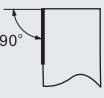
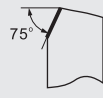
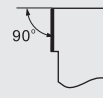
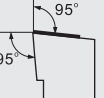
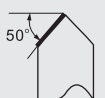
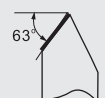
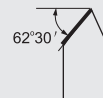
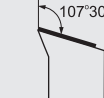
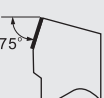
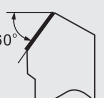
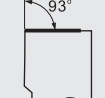
P

C

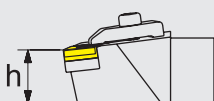
L

N

L

| Tool holder style and approach angle                                                       |                                                                                            |                                                                                            |                                                                                            |                                                                                               |                                                                                                 |                                                                                                 |                                                                                                  |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| A                                                                                          | B                                                                                          | C                                                                                          | D                                                                                          | E                                                                                             | F                                                                                               | G                                                                                               | H                                                                                                |
| <br>90° | <br>75° | <br>90° | <br>45° | <br>60°    | <br>90°     | <br>90°    | <br>107°30' |
| J                                                                                          | K                                                                                          | L                                                                                          | M                                                                                          | N                                                                                             | O                                                                                               | P                                                                                               | Q                                                                                                |
| <br>93° | <br>75° | <br>95° | <br>50° | <br>63°    | <br>117°30' | <br>62°30' | <br>107°30' |
| R                                                                                          | S                                                                                          | T                                                                                          | U                                                                                          | V                                                                                             | W                                                                                               | X                                                                                               |                                                                                                  |
| <br>75° | <br>45° | <br>60° | <br>93° | <br>72°30' | <br>60°     | <br>120°   |                                                                                                  |

### Nose height (mm)



| Code | Height |
|------|--------|
|------|--------|

|           |    |
|-----------|----|
| <b>12</b> | 12 |
| <b>16</b> | 16 |
| <b>20</b> | 20 |
| <b>25</b> | 25 |
| <b>32</b> | 32 |
| <b>40</b> | 40 |
| <b>50</b> | 50 |

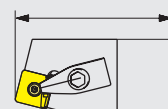
### Width of tool holder (mm)



| Code | Width |
|------|-------|
|------|-------|

|           |    |
|-----------|----|
| <b>12</b> | 12 |
| <b>16</b> | 16 |
| <b>20</b> | 20 |
| <b>25</b> | 25 |
| <b>32</b> | 32 |
| <b>40</b> | 40 |
| <b>50</b> | 50 |

### Length of tool holder (mm)



| Code | Length |
|------|--------|
|------|--------|

|          |     |
|----------|-----|
| <b>E</b> | 70  |
| <b>F</b> | 80  |
| <b>H</b> | 100 |
| <b>K</b> | 125 |
| <b>M</b> | 150 |
| <b>P</b> | 170 |
| <b>Q</b> | 180 |
| <b>R</b> | 200 |
| <b>S</b> | 250 |
| <b>T</b> | 300 |

**25**

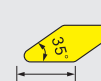
**25**

**M**

**12**

### Length of cutting edge

Inserts shape



Inscribed circle (mm)

Length of cutting edge(mm)

5.556

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---

09

---

---

6.350

06

07

---

---

11

---

---

9.525

09

11

09

09

16

16

06

12.700

12

15

12

12

22

22

08

15.875

16

19

15

15

27

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---

19.050

19

---

19

19

33

---

---

25.400

25

---

25

25

44

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---

32.000

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32

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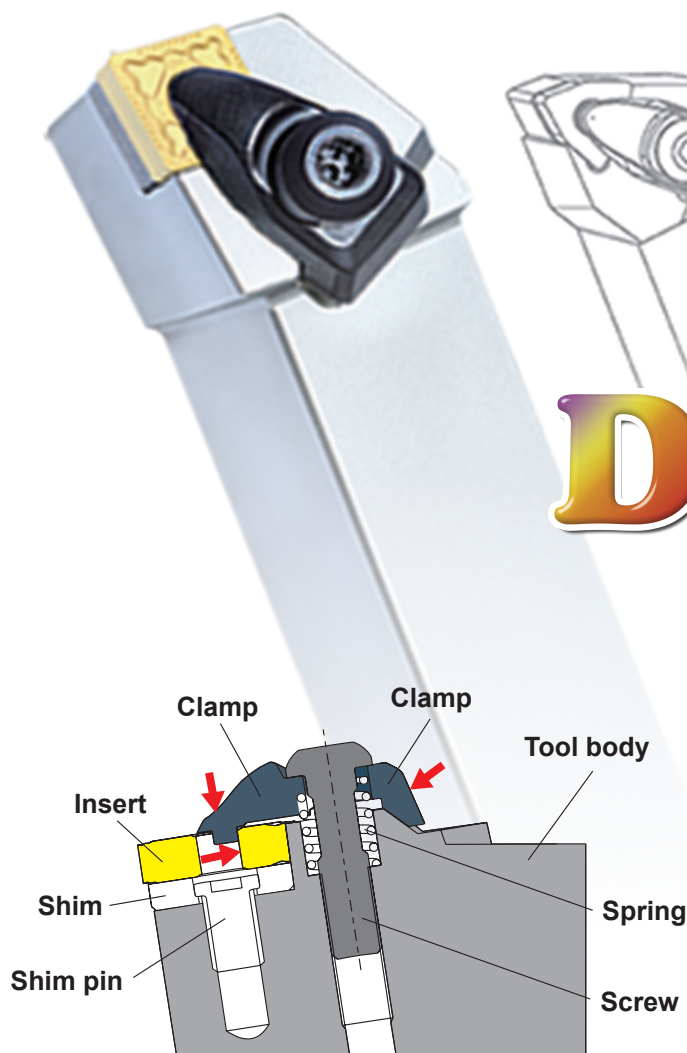
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General turning

External turning tools code key



## D-type double-clamping tool holder

With newly developed double-clamping structure, D-type turning tools have high clamping rigidity and high positioning accuracy, achieving easy and secure clamping of inserts. It is the best choice for the clamping of straight hole negative inserts.

### Convenient secure clamping device



Slots in the tool body match perfectly with the clamp, realizing simple and easy clamping.

### Uniquely clamp

The clamp and the inner wall of insert hole make an arc contact. The stable and evenly distributed clamping force ensures more secure clamping.

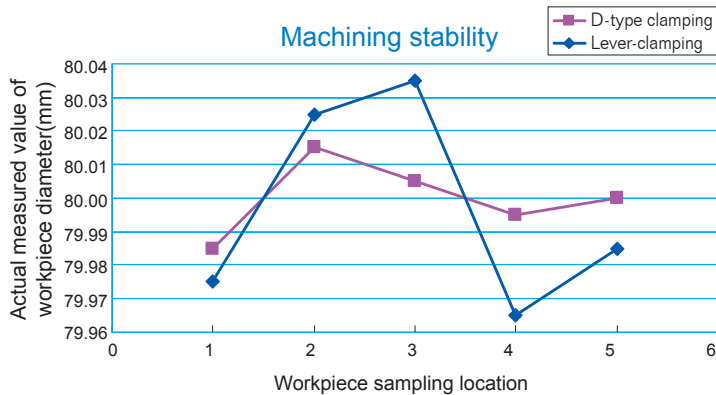
lug boss on both ends and double-locating make more insert clamp secure .

Arc locating surface makes large contact area and the force is evenly distributed.

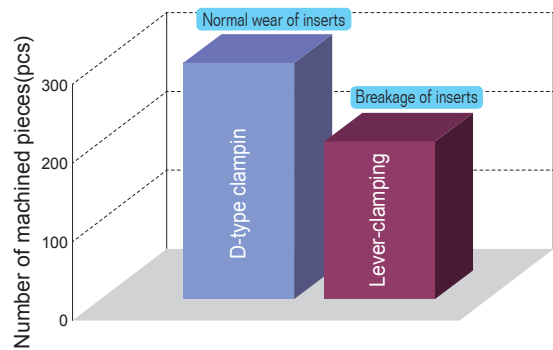
Simple and compact structure effectively prevents chip blocking while ensuring high clamping rigidity.

## Compared with lever-clamping:

① Accurate locating ensures more stable machining accuracy.



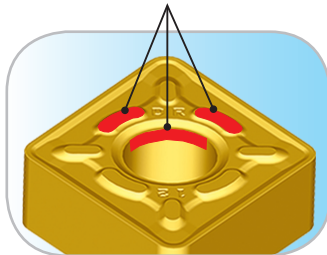
② High clamping rigidity effectively improves resistance to breakage of insert.



## Compared with similar products of company A:

① Locating surface contact: (checking the contact location of clamp by dyeing)

Force evenly distributed, firm clamping, high locating accuracy.



**ZCC-CT**

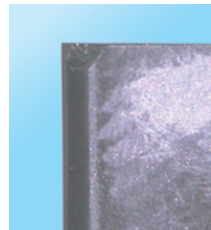


Similar product of company A

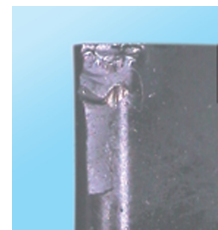
② Effect on tool life:

Tool holder: DCLNL3225P12  
 Insert: YBC252/CNMG120408-DR  
 Cutting material: 45# steel  
 Cutting parameters:  $V_c=250\text{m/min}$   
 $a_p=2\text{mm}$   
 $f=0.6\text{mm/r}$

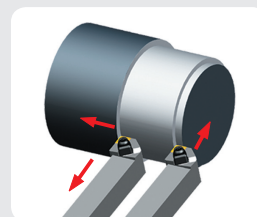
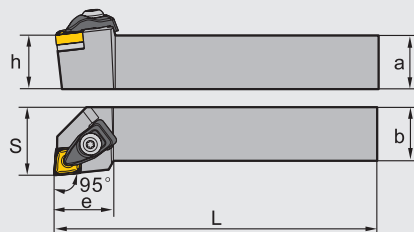
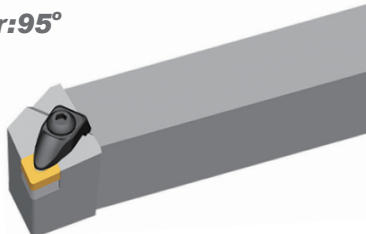
After 60 minutes of cutting



**ZCC-CT**



Similar product of company A

Corresponding tool holders of insert **CN** ☐ ☐ D-type clamping**DCLNR/L****Kr:95°**

| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw   | Shim  | Wrench | Clamp | Shim screw  | Spring |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|---------|-------|--------|-------|-------------|--------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |         |       |        |       |             |        |
| <b>DCLNR/L</b> | <b>1616H09</b> | ▲     | △ | 16                   | 16 | 100 | 16 | 20 | 24 |         |       |        |       |             |        |
|                | <b>2020K09</b> | ▲     | △ | 20                   | 20 | 125 | 20 | 25 | 24 | CM5×22C | C09BM | WH30L  | C1RA  | SM5×8.65XA1 | SPR6   |
|                | <b>2525M09</b> | ▲     | △ | 25                   | 25 | 150 | 25 | 32 | 24 |         |       |        |       |             |        |
|                | <b>2020K12</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 28 |         |       |        |       |             |        |
|                | <b>2525M12</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 28 | CM6×25C | C12BM | WH40L  | C2RA  | SM6×10XA1   | SPR4   |
|                | <b>3225P12</b> | ▲     | ▲ | 32                   | 25 | 170 | 32 | 32 | 28 |         |       |        |       |             |        |

▲ Stock available

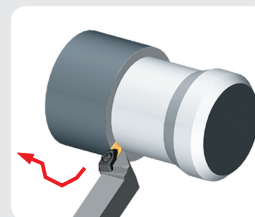
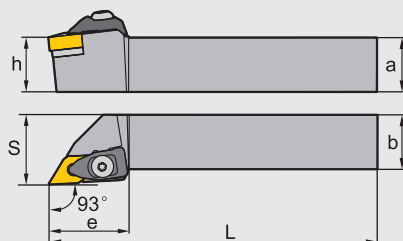
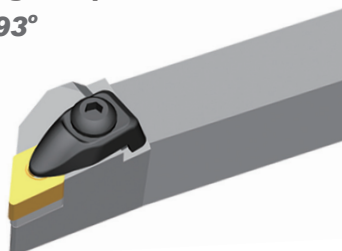
△ Make-to-order

## Applicable inserts

| Application      | For finishing              | For semi-finishing         | For roughing                    | For heavy machining | For cast iron machining    | PCBN&PCD inserts |
|------------------|----------------------------|----------------------------|---------------------------------|---------------------|----------------------------|------------------|
| Inserts shape    | <b>DF</b><br>Wiper<br>A54  | <b>WGM</b><br>Wiper<br>A55 | <b>DR</b><br>Double-side<br>A58 | <b>HPR</b><br>A59   | Without chipbreaker<br>A59 | A121             |
|                  | <b>WGF</b><br>Wiper<br>A54 | <b>PM</b><br>A55           | <b>DR</b><br>Single-side<br>A58 |                     |                            | A121             |
|                  | <b>SF</b><br>A54           | <b>DM</b><br>A56           | <b>ER</b><br>Double-side<br>A58 |                     |                            | A121             |
|                  | <b>EF</b><br>A54           | <b>EM</b><br>A56           | <b>ER</b><br>Single-side<br>A58 |                     |                            |                  |
|                  | <b>NF</b><br>A55           | <b>NM</b><br>A57           | <b>SNR</b><br>A58               |                     |                            |                  |
|                  |                            |                            | <b>LR</b><br>Single-side<br>A57 |                     |                            |                  |
| Tool holder type | <b>DCLNR/L□□H/K/M09</b>    | CN□□0903□□                 | CN□□0903□□                      |                     |                            |                  |
|                  | <b>DCLNR/L□□K/M/P12</b>    | CN□□1204□□                 | CN□□1204□□                      | CN□□1204□□          | CN□□1204□□                 | CN□□1204□□       |

### Corresponding tool holders of insert **DN** ☐ ☐ D-type clamping

**DDJNR/L**  
Kr:93°



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw   | Shim  | Wrench | Clamp | Shim screw  | Spring |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|---------|-------|--------|-------|-------------|--------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |         |       |        |       |             |        |
| <b>DDJNR/L</b> | <b>1616H11</b> | △     | △ | 16                   | 16 | 100 | 16 | 20 | 30 | CM5×22C | D11BM | WH30L  | C1RA  | SM5×8.65XA1 | SPR6   |
|                | <b>2020K11</b> | ▲     | △ | 20                   | 20 | 125 | 20 | 25 | 30 |         |       |        |       |             |        |
|                | <b>2525M11</b> | ▲     | △ | 25                   | 25 | 150 | 25 | 32 | 30 |         |       |        |       |             |        |
|                | <b>3225P11</b> | △     | △ | 32                   | 25 | 170 | 32 | 32 | 30 |         |       |        |       |             |        |
|                | <b>2020K15</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 35 | CM6×25C | D15BM | WH40L  | C2RA  | SM6×10XA1   | SPR4   |
|                | <b>2525M15</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 35 |         |       |        |       |             |        |
|                | <b>3232P15</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 35 |         |       |        |       |             |        |

▲Stock available    △Make-to-order

### Applicable inserts

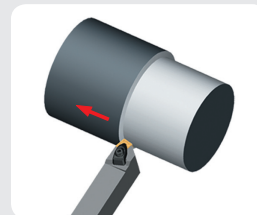
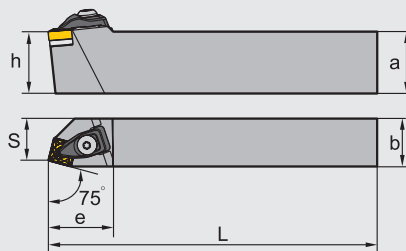
| Application      | For finishing              | For semi-finishing         | For roughing                    | For cast iron machining    | PCBN&PCD inserts |
|------------------|----------------------------|----------------------------|---------------------------------|----------------------------|------------------|
| Inserts shape    | <b>DF</b><br>A61           | <b>WGM</b><br>Wiper<br>A63 | <b>DR</b><br>Double-side<br>A65 | Without chipbreaker<br>A66 | A123             |
|                  | <b>WGF</b><br>Wiper<br>A61 | <b>PM</b><br>A63           | <b>DR</b><br>Single-side<br>A65 |                            | A123             |
|                  | <b>SF</b><br>A62           | <b>DM</b><br>A64           | <b>ER</b><br>Double-side<br>A65 |                            | A123             |
|                  | <b>EF</b><br>A62           | <b>EM</b><br>A64           | <b>ER</b><br>Single-side<br>A65 |                            |                  |
|                  | <b>NF</b><br>A62           | <b>NM</b><br>A64           | <b>SNR</b><br>A65               |                            |                  |
|                  | <b>NGF</b><br>A62          |                            | <b>LR</b><br>Single-side<br>A65 |                            |                  |
| Tool holder type | <b>DDJNR/L□□H/K/M/P11</b>  | DN□□1104□□                 | DN□□1104□□                      | DN□□1104□□                 |                  |
|                  | <b>DDJNR/L□□K/M/P15</b>    | DN□□1506□□                 | DN□□1506□□                      | DN□□1506□□                 | DN□□1506□□       |

Corresponding tool holders of insert **SN** □ □

D-type clamping

**DSBNR/L**

Kr:75°



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                               | Wrench                                                                              | Clamp                                                                               | Shim screw                                                                          | Spring                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |  |  |
| <b>DSBNR/L</b> | <b>1616H09</b> | ▲     | △ | 16                   | 16 | 100 | 16 | 13 | 26 | CM5×22C                                                                           | S09BM                                                                              | WH30L                                                                               | C1RA                                                                                | SM5×8.65XA1                                                                         | SPR6                                                                                |
|                | <b>2020K12</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 17 | 34 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M12</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 22 | 34 | CM6×25C                                                                           | S12BM                                                                              | WH40L                                                                               | C2RA                                                                                | SM6×10XA1                                                                           | SPR4                                                                                |
|                | <b>3225P12</b> | ▲     | ▲ | 32                   | 25 | 170 | 32 | 22 | 34 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                | <b>3232P15</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 27 | 41 | CM6×25C                                                                           | S15BM                                                                              | WH40L                                                                               | C3RA                                                                                | SM6×10XA2                                                                           | SPR4                                                                                |

▲Stock available

△Make-to-order

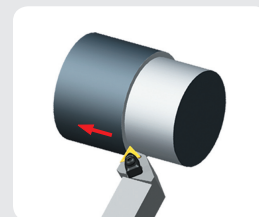
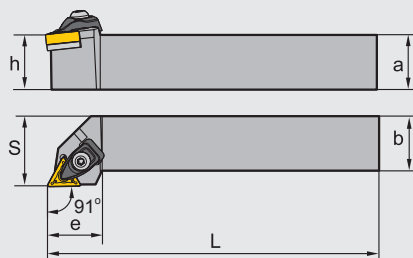
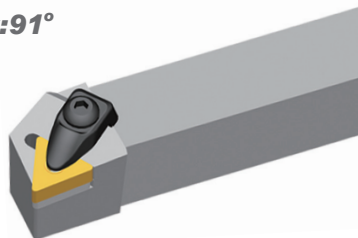
## Applicable inserts

| Application      | For finishing                                                                                     | For semi-finishing                                                                                | For roughing                                                                                                     | For heavy machining                                                                                 | For cast iron machining                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b>  A67 | <b>PM</b>  A68 | <b>DR</b> Double-side  A70    | <b>HPR</b>  A72 | Without chipbreaker  A74 |
|                  | <b>EF</b>  A67 | <b>DM</b>  A68 | <b>DR</b> Single-side  A70-71 |                                                                                                     |                                                                                                               |
|                  | <b>SF</b>  A67 | <b>EM</b>  A69 | <b>ER</b> Double-side  A71    |                                                                                                     |                                                                                                               |
|                  |                                                                                                   | <b>NM</b>  A69 | <b>ER</b> Single-side  A72    |                                                                                                     |                                                                                                               |
|                  |                                                                                                   |                                                                                                   | <b>SNR</b>  A72               |                                                                                                     |                                                                                                               |
|                  |                                                                                                   |                                                                                                   | <b>LR</b> Single-side  A69    |                                                                                                     |                                                                                                               |
| Tool holder type | <b>DSBNR/L□□H09</b>                                                                               | SN□□0903□□                                                                                        | SN□□0903□□                                                                                                       |                                                                                                     | SN□□0903□□                                                                                                    |
|                  | <b>DSBNR/L□□K/M/P12</b>                                                                           | SN□□1204□□                                                                                        | SN□□1204□□                                                                                                       | SN□□1204□□                                                                                          | SN□□1204□□                                                                                                    |
|                  | <b>DSBNR/L□□P15</b>                                                                               | SN□□1506□□                                                                                        | SN□□1506□□                                                                                                       | SN□□1506□□                                                                                          | SN□□1506□□                                                                                                    |

### Corresponding tool holders of insert **TN** ☐ ☐

D-type clamping

#### DTGNR/L Kr:91°



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw   | Shim  | Wrench | Clamp | Shim screw  | Spring |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|---------|-------|--------|-------|-------------|--------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |         |       |        |       |             |        |
| <b>DTGNR/L</b> | <b>1616H16</b> | △     | △ | 16                   | 16 | 100 | 16 | 20 | 25 |         |       |        |       |             |        |
|                | <b>2020K16</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 25 | CM5×22C | T16BM | WH30L  | C1RA  | SM5×8.65XA1 | SPR6   |
|                | <b>2525M16</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 25 |         |       |        |       |             |        |

▲Stock available

△Make-to-order

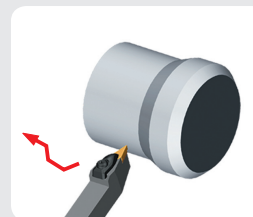
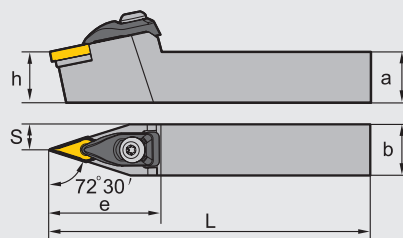
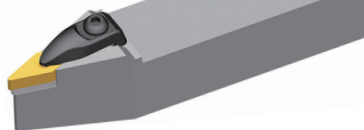
General turning

External turning tools

### Applicable inserts

| Application   | For finishing                                                                                                  | For semi-finishing                                                                                             | For roughing                                                                                                        | For cast iron machining                                                                                          | PCBN&PCD inserts                                                                           |
|---------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Inserts shape | <b>DF</b><br> A75           | <b>WGM</b><br>Wiper<br> A76 | <b>DR</b><br>Double-side<br> A78 | Without chipbreaker<br> A80 |  A126 |
|               | <b>WGF</b><br>Wiper<br> A75 | <b>PM</b><br> A76           | <b>DR</b><br>Single-side<br> A78 |                                                                                                                  |  A126 |
|               | <b>SF</b><br> A75           | <b>DM</b><br> A77           | <b>ER</b><br>Double-side<br> A78 |                                                                                                                  |  A126 |
|               | <b>EF</b><br> A76           | <b>EM</b><br> A77           | <b>SNR</b><br> A78               |                                                                                                                  |                                                                                            |
|               |                                                                                                                |                                                                                                                | <b>LR</b><br>Single-side<br> A77 |                                                                                                                  |                                                                                            |

|                  |                                                                          |                                                                                                             |                                                                                                             |                                                                                                             |                                                                                                             |                                                                                                             |
|------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Tool holder type | <b>DTGNR/L</b> <input type="checkbox"/> <input type="checkbox"/> H/K/M16 | TN <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> | TN <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> | TN <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> | TN <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> | TN <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> |
|------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|

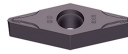
Corresponding tool holders of insert **VN** ☐ ☐ D-type clamping**DVVNN**  
Kr:72°30'

| Type         | Stock          | Basic dimensions(mm) |    |    |     |    |      |    | Screw   | Shim  | Wrench | Clamp | Shim screw  | Spring |
|--------------|----------------|----------------------|----|----|-----|----|------|----|---------|-------|--------|-------|-------------|--------|
|              |                | a                    | b  | L  | h   | s  | e    |    |         |       |        |       |             |        |
| <b>DVVNN</b> | <b>2020K16</b> | △                    | 20 | 20 | 125 | 20 | 10   | 44 | CM5×22C | V16BM | WH30L  | C6RA  | SM5×8.65XA1 | SPR6   |
|              | <b>2525M16</b> | ▲                    | 25 | 25 | 150 | 25 | 12.5 | 44 |         |       |        |       |             |        |

▲Stock available

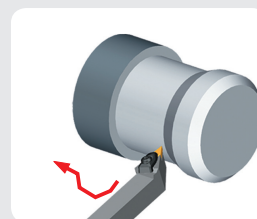
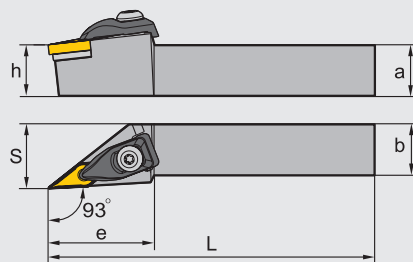
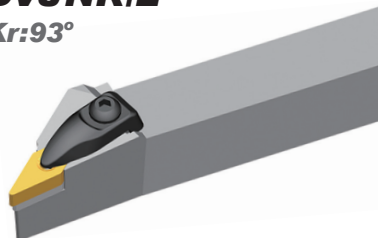
△Make-to-order

## Applicable inserts

| Application      | For finishing        |                                                                                         | For semi-finishing |                                                                                         | For roughing |                                                                                          | PCBN&PCD inserts                                                                           |
|------------------|----------------------|-----------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b>            |  A81 | <b>PM</b>          |  A82 | <b>SNR</b>   |  A82 |  A127 |
|                  | <b>EF</b>            |  A81 | <b>DM</b>          |  A82 |              |                                                                                          |  A127 |
|                  | <b>SF</b>            |  A81 | <b>EM</b>          |  A82 |              |                                                                                          |                                                                                            |
|                  | <b>NF</b>            |  A81 | <b>NM</b>          |  A82 |              |                                                                                          |                                                                                            |
|                  | <b>NGF</b>           |  A81 |                    |                                                                                         |              |                                                                                          |                                                                                            |
| Tool holder type | <b>DVVNN</b> □□K/M16 |                                                                                         | VN□□1604□□         |                                                                                         | VN□□1604□□   |                                                                                          | VN□□1604□□                                                                                 |

### Corresponding tool holders of insert **VN** ☐ ☐ D-type clamping

**DVJNR/L**  
Kr:93°



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw   | Shim  | Wrench | Clamp | Shim screw  | Spring |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|---------|-------|--------|-------|-------------|--------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |         |       |        |       |             |        |
| <b>DVJNR/L</b> | <b>2020K16</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 41 | CM5×22C | V16BM | WH30L  | C6RA  | SM5×8.65XA1 | SPR6   |
|                | <b>2525M16</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 41 |         |       |        |       |             |        |

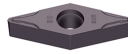
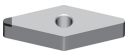
▲Stock available

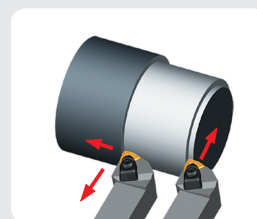
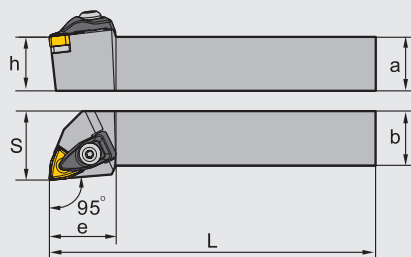
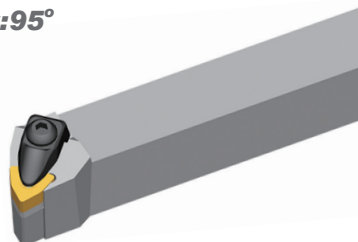
△Make-to-order

General turning

External turning tools

### Applicable inserts

| Application      | For finishing                                                                 |                                                                                         | For semi-finishing                                                                                          |                                                                                         | For roughing                                                                                                |                                                                                          | PCBN&PCD inserts                                                                                            |  |
|------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--|
| Inserts shape    | <b>DF</b>                                                                     |  A81 | <b>PM</b>                                                                                                   |  A82 | <b>SNR</b>                                                                                                  |  A82 |  A127                  |  |
|                  | <b>EF</b>                                                                     |  A81 | <b>DM</b>                                                                                                   |  A82 |                                                                                                             |                                                                                          |  A127                  |  |
|                  | <b>SF</b>                                                                     |  A81 | <b>EM</b>                                                                                                   |  A82 |                                                                                                             |                                                                                          |                                                                                                             |  |
|                  | <b>NF</b>                                                                     |  A81 | <b>NM</b>                                                                                                   |  A82 |                                                                                                             |                                                                                          |                                                                                                             |  |
|                  | <b>NGF</b>                                                                    |  A81 |                                                                                                             |                                                                                         |                                                                                                             |                                                                                          |                                                                                                             |  |
| Tool holder type | <b>DVJNR/L</b> <input type="checkbox"/> <input type="checkbox"/> <b>K/M16</b> |                                                                                         | VN <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> |                                                                                         | VN <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> |                                                                                          | VN <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> |  |
|                  |                                                                               |                                                                                         |                                                                                                             |                                                                                         |                                                                                                             |                                                                                          |                                                                                                             |  |
|                  |                                                                               |                                                                                         |                                                                                                             |                                                                                         |                                                                                                             |                                                                                          |                                                                                                             |  |

Corresponding tool holders of insert **WN** ☐ ☐ D-type clamping**DWLNRL**  
Kr:95°

| Type            |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw   | Shim  | Wrench | Clamp | Shim screw  | Spring |
|-----------------|----------------|-------|---|----------------------|----|-----|----|----|----|---------|-------|--------|-------|-------------|--------|
|                 |                | R     | L | a                    | b  | L   | h  | s  | e  |         |       |        |       |             |        |
| <b>DWLNRL/L</b> | <b>1616H06</b> | ▲     | △ | 16                   | 16 | 100 | 16 | 25 | 25 |         |       |        |       |             |        |
|                 | <b>2020K06</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 24 | CM5×22C | W06BM | WH30L  | C1RA  | SM5×8.65XA1 | SPR6   |
|                 | <b>2525M06</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 24 |         |       |        |       |             |        |
|                 | <b>2020K08</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 31 |         |       |        |       |             |        |
|                 | <b>2525M08</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 31 | CM6×25C | W08BM | WH40L  | C2RA  | SM6×10XA1   | SPR4   |
|                 | <b>3225P08</b> | △     | △ | 32                   | 25 | 170 | 32 | 32 | 31 |         |       |        |       |             |        |

▲Stock available

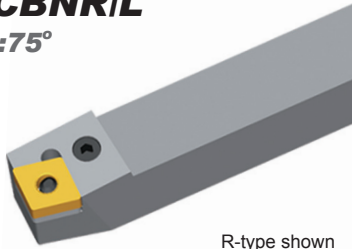
△Make-to-order

## Applicable inserts

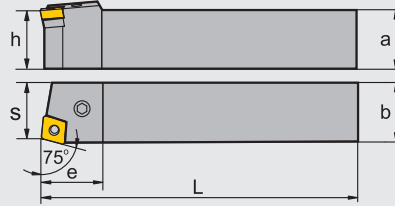
| Application      | For finishing                                                                                               | For semi-finishing                                                                                          | For roughing                                                                                                     | For cast iron machining                                                                                       | PCBN&PCD inserts                                                                           |
|------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b><br> A83        | <b>WGM</b><br>Wiper  A84 | <b>DR</b><br>Double-side  A86 | Without chipbreaker  A86 |  A128 |
|                  | <b>WGF</b><br>Wiper  A83 | <b>PM</b>  A85           | <b>SNR</b>  A86               |                                                                                                               |  A128 |
|                  | <b>SF</b>  A83           | <b>DM</b>  A85           |                                                                                                                  |                                                                                                               |                                                                                            |
|                  | <b>EF</b>  A84           | <b>EM</b>  A85           |                                                                                                                  |                                                                                                               |                                                                                            |
|                  | <b>NF</b>  A84           | <b>NM</b>  A86           |                                                                                                                  |                                                                                                               |                                                                                            |
| Tool holder type | <b>DWLNRL/□□□H/K/M06</b>                                                                                    | WN□□0604□□                                                                                                  | WN□□0604□□                                                                                                       | WN□□0604□□                                                                                                    | WN□□0604□□                                                                                 |
|                  | <b>DWLNRL/□□□K/M/P08</b>                                                                                    | WN□□0804□□                                                                                                  | WN□□0804□□                                                                                                       | WN□□0804□□                                                                                                    | WN□□0804□□                                                                                 |

### Corresponding tool holders of insert **CN** ☐ ☐ P-type clamping

**PCBNR/L**  
Kr:75°



R-type shown



| Type           |                  | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw     | Shim     | Wrench | Lever | Shim pin |
|----------------|------------------|-------|---|----------------------|----|-----|----|----|----|-----------|----------|--------|-------|----------|
|                |                  | R     | L | a                    | b  | L   | h  | s  | e  |           |          |        |       |          |
| <b>PCBNR/L</b> | <b>2020K12</b>   | ▲     | ▲ | 20                   | 20 | 125 | 20 | 17 | 32 |           |          |        |       |          |
|                | <b>2525M12</b>   | ▲     | ▲ | 25                   | 25 | 150 | 25 | 22 | 32 | LEM8×21   | C12AP    | WH30L  | L4    | SP4      |
|                | <b>3232P12</b>   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 27 | 32 |           |          |        |       |          |
|                | <b>2525M16</b>   | ▲     | ▲ | 25                   | 25 | 150 | 25 | 22 | 38 |           |          |        |       |          |
|                | <b>3232P16</b>   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 27 | 38 | LEM8×25   | C16AP    | WH30L  | L5    | SP5      |
|                | <b>4040R16</b>   | ▲     | ▲ | 40                   | 40 | 200 | 40 | 35 | 42 |           |          |        |       |          |
|                | <b>3232P19</b>   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 27 | 42 |           |          |        |       |          |
|                | <b>4040R19</b>   | ▲     | ▲ | 40                   | 40 | 200 | 40 | 35 | 42 | LEM10×27  | C19AP    | WH40L  | L6    | SP6      |
|                | <b>4040S2507</b> | ▲     | ▲ | 40                   | 40 | 250 | 40 | 35 | 50 |           | C25AP-07 |        |       |          |
|                | <b>4040S2509</b> | ▲     | ▲ | 40                   | 40 | 250 | 40 | 35 | 50 | LEM12×36A | C25AP    | WH50L  | L8    | SP8      |

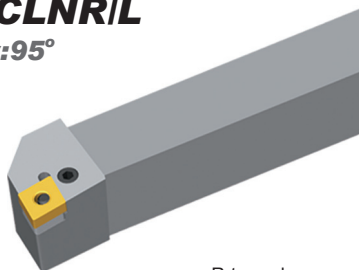
▲Stock available    △Make-to-order

### Applicable inserts

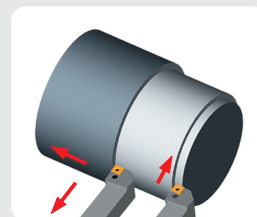
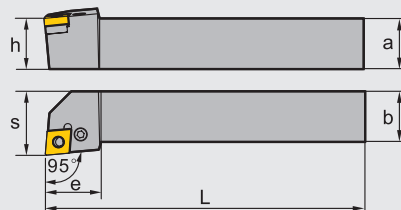
| Application      | For finishing              | For semi-finishing         | For roughing                    | For heavy machining | For cast iron machining    |
|------------------|----------------------------|----------------------------|---------------------------------|---------------------|----------------------------|
| Inserts shape    | <b>DF</b><br>A54           | <b>WGM</b><br>Wiper<br>A55 | <b>DR</b><br>Double-side<br>A58 | <b>HPR</b><br>A59   | Without chipbreaker<br>A59 |
|                  | <b>WGF</b><br>Wiper<br>A54 | <b>PM</b><br>A55           | <b>DR</b><br>Single-side<br>A58 |                     |                            |
|                  | <b>SF</b><br>A54           | <b>DM</b><br>A55           | <b>ER</b><br>Double-side<br>A58 |                     |                            |
|                  | <b>EF</b><br>A54           | <b>EM</b><br>A56           | <b>ER</b><br>Single-side<br>A58 |                     |                            |
|                  | <b>NF</b><br>A58           | <b>NM</b><br>A57           | <b>SNR</b><br>A58               |                     |                            |
|                  |                            |                            | <b>LR</b><br>A57                |                     |                            |
| Tool holder type | <b>PCBNR/L□□K/M/P12</b>    | CN□□1204□□                 | CN□□1204□□                      | CN□□1204□□          | CN□□1204□□                 |
|                  | <b>PCBNR/L□□M/P/R16</b>    | CN□□1606□□                 | CN□□1606□□                      | CN□□1606□□          | CN□□1606□□                 |
|                  | <b>PCBNR/L□□P/R19</b>      |                            | CN□□1906□□                      | CN□□1906□□          | CN□□1906□□                 |
|                  | <b>PCBNR/L□□S2507</b>      |                            | CN□□2507□□                      |                     |                            |
|                  | <b>PCBNR/L□□S2509</b>      |                            | CN□□2509□□                      |                     |                            |

General turning

External turning tools

Corresponding tool holders of insert **CN** ☐ ☐ P-type clamping**PCLNR/L**  
Kr:95°

R-type shown



| Type           |                  | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw     | Shim              | Wrench | Lever | Shim pin |
|----------------|------------------|-------|---|----------------------|----|-----|----|----|----|-----------|-------------------|--------|-------|----------|
|                |                  | R     | L | a                    | b  | L   | h  | s  | e  |           |                   |        |       |          |
| <b>PCLNR/L</b> | <b>2020K12</b>   | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 32 | LEM8×21   | C12AP             | WH30L  | L4    | SP4      |
|                | <b>2525M12</b>   | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 32 |           |                   |        |       |          |
|                | <b>3225P12</b>   | △     | △ | 32                   | 25 | 170 | 32 | 32 | 38 |           |                   |        |       |          |
|                | <b>3232P12</b>   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 32 |           |                   |        |       |          |
|                | <b>2525M16</b>   | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 38 | LEM8×25   | C16AP             | WH30L  | L5    | SP5      |
|                | <b>3225P16</b>   | △     | △ | 32                   | 25 | 170 | 32 | 32 | 32 |           |                   |        |       |          |
|                | <b>3232P16</b>   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 38 |           |                   |        |       |          |
|                | <b>4040R16</b>   | △     | △ | 40                   | 40 | 200 | 40 | 50 | 42 |           |                   |        |       |          |
|                | <b>3232P19</b>   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 42 | LEM10×27  | C19AP             | WH40L  | L6    | SP6      |
|                | <b>4040R19</b>   | ▲     | ▲ | 40                   | 40 | 200 | 40 | 50 | 42 |           |                   |        |       |          |
|                | <b>4040S2507</b> | ▲     | ▲ | 40                   | 40 | 250 | 40 | 50 | 49 | LEM12×36A | C25AP-07<br>C25AP | WH50L  | L8    | SP8      |
|                | <b>4040S2509</b> | ▲     | ▲ | 40                   | 40 | 250 | 40 | 50 | 49 |           |                   |        |       |          |

▲Stock available

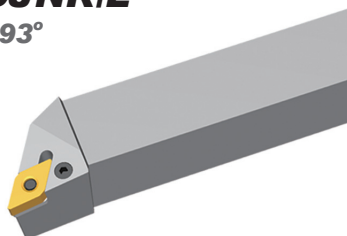
△Make-to-order

## Applicable inserts

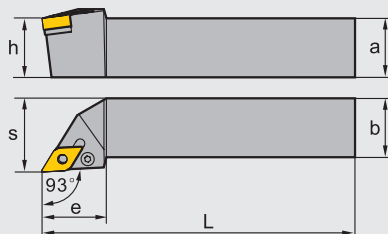
| Application      | For finishing              | For semi-finishing         | For roughing                    | For heavy machining | For cast iron machining    | PCBN&PCD inserts |
|------------------|----------------------------|----------------------------|---------------------------------|---------------------|----------------------------|------------------|
| Inserts shape    | <b>DF</b><br>Wiper<br>A54  | <b>WGM</b><br>Wiper<br>A55 | <b>DR</b><br>Double-side<br>A58 | <b>HPR</b><br>A59   | Without chipbreaker<br>A59 | A121             |
|                  | <b>WGF</b><br>Wiper<br>A54 | <b>PM</b><br>A55           | <b>DR</b><br>Single-side<br>A58 |                     |                            | A121             |
|                  | <b>SF</b><br>A54           | <b>DM</b><br>A56           | <b>ER</b><br>Double-side<br>A58 |                     |                            | A121             |
|                  | <b>EF</b><br>A54           | <b>EM</b><br>A56           | <b>ER</b><br>Single-side<br>A58 |                     |                            |                  |
|                  | <b>NF</b><br>A55           | <b>NM</b><br>A57           | <b>SNR</b><br>A58               |                     |                            |                  |
|                  |                            |                            | <b>LR</b><br>Single-side<br>A57 |                     |                            |                  |
| Tool holder type | <b>PCLNR/L□□K/M/P12</b>    | CN□□1204□□                 | CN□□1204□□                      | CN□□1204□□          | CN□□1204□□                 | CN□□1204□□       |
|                  | <b>PCLNR/L□□M/P/R16</b>    | CN□□1606□□                 | CN□□1606□□                      | CN□□1606□□          | CN□□1606□□                 | CN□□1606□□       |
|                  | <b>PCLNR/L□□P/R19</b>      |                            | CN□□1906□□                      | CN□□1906□□          | CN□□1906□□                 | CN□□1906□□       |
|                  | <b>PCLNR/L□□S2507</b>      |                            | CN□□2507□□                      |                     |                            |                  |
|                  | <b>PCLNR/L□□S2509</b>      |                            | CN□□2509□□                      |                     |                            |                  |

### Corresponding tool holders of insert **DN** ☐ ☐ P-type clamping

**PDJNR/L**  
Kr:93°



R-type shown



| Type           |                  | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw   | Shim  | Wrench | Lever | Shim pin |
|----------------|------------------|-------|---|----------------------|----|-----|----|----|----|---------|-------|--------|-------|----------|
|                |                  | R     | L | a                    | b  | L   | h  | s  | e  |         |       |        |       |          |
| <b>PDJNR/L</b> | <b>1616H11</b>   | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 28 |         |       |        |       |          |
|                | <b>2020K11</b>   | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 28 | LEM6×17 | D11AP | WH25L  | L3    | SP3      |
|                | <b>2525M11</b>   | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 28 |         |       |        |       |          |
|                | <b>2020K15</b>   | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 38 |         |       |        |       |          |
|                | <b>2525M15</b>   | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 38 | LEM8×21 | D15AP | WH30L  | L4B   | SP4      |
|                | <b>3232P15</b>   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 38 |         |       |        |       |          |
|                | <b>2020K15-3</b> | ▲     | △ | 20                   | 20 | 125 | 20 | 25 | 38 |         |       |        |       |          |
|                | <b>2525M15-3</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 38 | LEM8×21 | D15AP | WH30L  | L4    | SP4      |
|                | <b>3232P15-3</b> | ▲     | △ | 32                   | 32 | 170 | 32 | 40 | 38 |         |       |        |       |          |

▲Stock available    △Make-to-order

### Applicable inserts

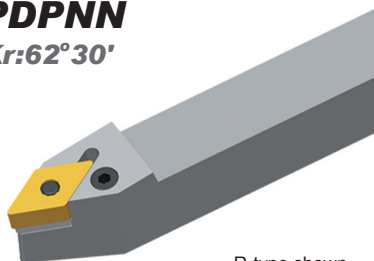
| Application      | For finishing                                                              | For semi-finishing                                                                                          | For roughing                                                                                                | For cast iron machining                                                                                     | PCBN&PCD inserts                                                                                            |
|------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b><br>Wiper<br>A61                                                  | <b>WGM</b><br>Wiper<br>A63                                                                                  | <b>DR</b><br>Double-side<br>A65                                                                             | Without chipbreaker<br>A66                                                                                  | A123                                                                                                        |
|                  | <b>WGF</b><br>Wiper<br>A61                                                 | <b>PM</b><br>A63                                                                                            | <b>DR</b><br>Single-side<br>A65                                                                             |                                                                                                             | A123                                                                                                        |
|                  | <b>SF</b><br>A62                                                           | <b>DM</b><br>A64                                                                                            | <b>ER</b><br>Double-side<br>A65                                                                             |                                                                                                             | A123                                                                                                        |
|                  | <b>EF</b><br>A62                                                           | <b>EM</b><br>A64                                                                                            | <b>ER</b><br>Single-side<br>A65                                                                             |                                                                                                             |                                                                                                             |
|                  | <b>NF</b><br>A62                                                           | <b>NM</b><br>A64                                                                                            | <b>SNR</b><br>A65                                                                                           |                                                                                                             |                                                                                                             |
|                  | <b>NGF</b><br>A62                                                          |                                                                                                             | <b>LR</b><br>Single-side<br>A65                                                                             |                                                                                                             |                                                                                                             |
| Tool holder type | <b>PDJNR/L</b> <input type="checkbox"/> <input type="checkbox"/> H/K/M11   | DN <input type="checkbox"/> <input type="checkbox"/> 1104 <input type="checkbox"/> <input type="checkbox"/> | DN <input type="checkbox"/> <input type="checkbox"/> 1104 <input type="checkbox"/> <input type="checkbox"/> | DN <input type="checkbox"/> <input type="checkbox"/> 1104 <input type="checkbox"/> <input type="checkbox"/> |                                                                                                             |
|                  | <b>PDJNR/L</b> <input type="checkbox"/> <input type="checkbox"/> K/M/P15   | DN <input type="checkbox"/> <input type="checkbox"/> 1506 <input type="checkbox"/> <input type="checkbox"/> | DN <input type="checkbox"/> <input type="checkbox"/> 1506 <input type="checkbox"/> <input type="checkbox"/> | DN <input type="checkbox"/> <input type="checkbox"/> 1506 <input type="checkbox"/> <input type="checkbox"/> | DN <input type="checkbox"/> <input type="checkbox"/> 1506 <input type="checkbox"/> <input type="checkbox"/> |
|                  | <b>PDJNR/L</b> <input type="checkbox"/> <input type="checkbox"/> K/M/P15-3 | DN <input type="checkbox"/> <input type="checkbox"/> 1504 <input type="checkbox"/> <input type="checkbox"/> | DN <input type="checkbox"/> <input type="checkbox"/> 1504 <input type="checkbox"/> <input type="checkbox"/> | DN <input type="checkbox"/> <input type="checkbox"/> 1504 <input type="checkbox"/> <input type="checkbox"/> | DN <input type="checkbox"/> <input type="checkbox"/> 1504 <input type="checkbox"/> <input type="checkbox"/> |

General turning

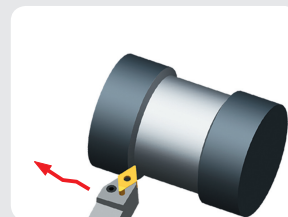
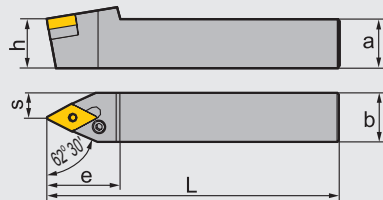
External turning tools

Corresponding tool holders of insert **DN** ☐ ☐ P-type clamping**PDPNN**

Kr:62°30'



R-type shown



| Type         |                  | Stock | Basic dimensions(mm) |    |     |    |      |    | Screw                                                                             | Shim                                                                                | Wrench                                                                              | Lever                                                                               | Shim pin                                                                            |
|--------------|------------------|-------|----------------------|----|-----|----|------|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                  |       | a                    | b  | L   | h  | s    | e  |  |  |  |  |  |
| <b>PDPNN</b> | <b>2020K15</b>   | ▲     | 20                   | 20 | 125 | 20 | 8    | 38 | LEM8×21                                                                           | D15AP                                                                               | WH30L                                                                               | L4B                                                                                 | SP4                                                                                 |
|              | <b>2525M15</b>   | ▲     | 25                   | 25 | 150 | 25 | 12.5 | 38 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|              | <b>3232P15</b>   | ▲     | 32                   | 32 | 170 | 32 | 16   | 38 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|              | <b>2020K15-3</b> | ▲     | 20                   | 20 | 125 | 20 | 8    | 38 | LEM8×21                                                                           | D15AP                                                                               | WH30L                                                                               | L4                                                                                  | SP4                                                                                 |
|              | <b>2525M15-3</b> | ▲     | 25                   | 25 | 150 | 25 | 12.5 | 38 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|              | <b>3232P15-3</b> | ▲     | 32                   | 32 | 170 | 32 | 16   | 38 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

△Make-to-order

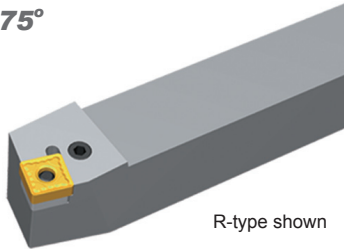
## Applicable inserts

| Application      | For finishing                                                                                                     | For semi-finishing                                                                                                | For roughing                                                                                                           | For cast iron machining                                                                                             | PCBN&PCD inserts                                                                              |
|------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b><br><br>A61           | <b>WGM</b><br>Wiper<br><br>A63 | <b>DR</b><br>Double-side<br><br>A65 | Without chipbreaker<br><br>A66 | <br>A123 |
|                  | <b>WGF</b><br>Wiper<br><br>A61 | <b>PM</b><br><br>A63           | <b>DR</b><br>Single-side<br><br>A65 |                                                                                                                     | <br>A123 |
|                  | <b>SF</b><br><br>A62           | <b>DM</b><br><br>A64           | <b>ER</b><br>Double-side<br><br>A65 |                                                                                                                     | <br>A123 |
|                  | <b>EF</b><br><br>A62           | <b>EM</b><br><br>A64           | <b>ER</b><br>Single-side<br><br>A65 |                                                                                                                     |                                                                                               |
|                  | <b>NF</b><br><br>A62           | <b>NM</b><br><br>A64           | <b>SNR</b><br><br>A65               |                                                                                                                     |                                                                                               |
|                  | <b>NGF</b><br><br>A62          |                                                                                                                   | <b>LR</b><br>Single-side<br><br>A65 |                                                                                                                     |                                                                                               |
| Tool holder type | <b>PDPNN□□K/M/P15</b>                                                                                             | DN□□1506□□                                                                                                        | DN□□1506□□                                                                                                             | DN□□1506□□                                                                                                          | DN□□1506□□                                                                                    |
|                  | <b>PDPNN□□K/M/P15-3</b>                                                                                           | DN□□1504□□                                                                                                        | DN□□1504□□                                                                                                             | DN□□1504□□                                                                                                          | DN□□1504□□                                                                                    |

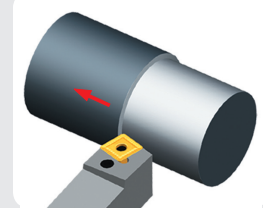
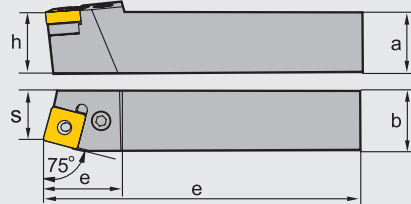
### Corresponding tool holders of insert **SN** ☐ ☐

P-type clamping

**PSBNR/L**  
Kr:75°



R-type shown



| Type    |           | Stock |   | Basic dimensions(mm) |    |     |    |    |           | Screw                                                                             | Shim                                                                               | Wrench                                                                              | Lever                                                                               | Shim pin                                                                            |
|---------|-----------|-------|---|----------------------|----|-----|----|----|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|         |           | R     | L | a                    | b  | L   | h  | s  | e         |  |  |  |  |  |
| PSBNR/L | 1616H09   | ▲     | ▲ | 16                   | 16 | 100 | 16 | 13 | 23        | LEM6×17                                                                           | S09AP                                                                              | WH25L                                                                               | L3                                                                                  | SP3                                                                                 |
|         | 2020K09   | ▲     | ▲ | 20                   | 20 | 125 | 20 | 17 | 23        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|         | 2020K12   | ▲     | ▲ | 20                   | 20 | 125 | 20 | 17 | 28        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|         | 2525M12   | ▲     | ▲ | 25                   | 25 | 150 | 25 | 22 | 28        | LEM8×21                                                                           | S12AP                                                                              | WH30L                                                                               | L4                                                                                  | SP4                                                                                 |
|         | 3225P12   | ▲     | △ | 32                   | 25 | 170 | 32 | 22 | 32        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|         | 3232P12   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 27 | 32        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|         | 2525M15   | ▲     | ▲ | 25                   | 25 | 150 | 25 | 22 | 28        | LEM8×25                                                                           | S15AP                                                                              | WH30L                                                                               | L5                                                                                  | SP5                                                                                 |
|         | 3232P15   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 27 | 32        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|         | 3232P19   | ▲     | ▲ | 32                   | 32 | 170 | 32 | 27 | 32        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|         | 4040R19   | ▲     | ▲ | 40                   | 40 | 200 | 40 | 35 | 32        | LEM10×27                                                                          | S19AP                                                                              | WH40L                                                                               | L6                                                                                  | SP6                                                                                 |
|         | 4040S2507 | ▲     | ▲ | 40                   | 40 | 250 | 40 | 35 | 48        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|         | 4040S2509 | ▲     | ▲ | 40                   | 40 | 250 | 40 | 35 | 48        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|         |           |       |   |                      |    |     |    |    | LEM12×36A | S25AP<br>S25AP-09                                                                 | WH50L                                                                              | L8                                                                                  | SP8                                                                                 |                                                                                     |

▲Stock available    △Make-to-order

### Applicable inserts

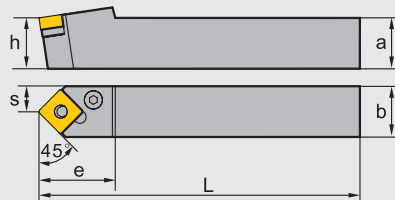
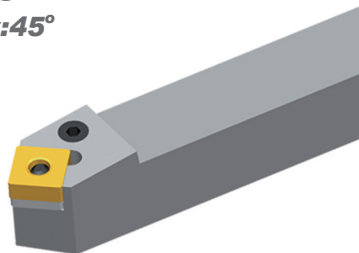
| Application      | For finishing                                                                              | For semi-finishing                                                                         | For roughing                                                                                              | For heavy machining                                                                          | For cast iron machining                                                                                       |
|------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Inserts shape    | DF  A67 | PM  A68 | DR Double-side  A70    | HPR  A72 | Without chipbreaker  A74 |
|                  | EF  A67 | DM  A68 | DR Single-side  A70-71 |                                                                                              |                                                                                                               |
|                  | SF  A67 | EM  A69 | ER Double-side  A71    |                                                                                              |                                                                                                               |
|                  |                                                                                            | NM  A69 | ER Single-side  A72    |                                                                                              |                                                                                                               |
|                  |                                                                                            |                                                                                            | SNR  A72               |                                                                                              |                                                                                                               |
|                  |                                                                                            |                                                                                            | LR Single-side  A69    |                                                                                              |                                                                                                               |
| Tool holder type | PSBNR/L□□H/K09                                                                             | SN□□0903□□                                                                                 | SN□□0903□□                                                                                                |                                                                                              | SN□□0903□□                                                                                                    |
|                  | PSBNR/L□□K/M/P12                                                                           | SN□□1204□□                                                                                 | SN□□1204□□                                                                                                | SN□□1204□□                                                                                   | SN□□1204□□                                                                                                    |
|                  | PSBNR/L□□M/P15                                                                             | SN□□1506□□                                                                                 | SN□□1506□□                                                                                                | SN□□1506□□                                                                                   | SN□□1506□□                                                                                                    |
|                  | PSBNR/L□□P/R19                                                                             |                                                                                            | SN□□1906□□                                                                                                | SN□□1906□□                                                                                   | SN□□1906□□                                                                                                    |
|                  | PSBNR/L□□S2507                                                                             |                                                                                            | SN□□2507□□                                                                                                | SN□□2507□□                                                                                   |                                                                                                               |
|                  | PSBNR/L□□S2509                                                                             |                                                                                            | SN□□2509□□                                                                                                | SN□□2509□□                                                                                   |                                                                                                               |

General turning

External turning tools

Corresponding tool holders of insert **SN** ☐ ☐

P-type clamping

**PSDNN****Kr:45°**

| Type         |                | Stock | Basic dimensions(mm) |    |     |    |      |    | Screw    | Shim  | Wrench | Lever | Shim pin |
|--------------|----------------|-------|----------------------|----|-----|----|------|----|----------|-------|--------|-------|----------|
|              |                |       | a                    | b  | L   | h  | s    | e  |          |       |        |       |          |
| <b>PSDNN</b> | <b>2020K12</b> | ▲     | 20                   | 20 | 125 | 20 | 10   | 30 | LEM8×21  | S12AP | WH30L  | L4    | SP4      |
|              | <b>2525M12</b> | ▲     | 25                   | 25 | 150 | 25 | 12.5 | 30 |          |       |        |       |          |
|              | <b>3232P12</b> | ▲     | 32                   | 32 | 170 | 32 | 16   | 40 |          |       |        |       |          |
|              | <b>2525M15</b> | ▲     | 25                   | 25 | 150 | 25 | 12.5 | 40 | LEM8×25  | S15AP | WH30L  | L5    | SP5      |
|              | <b>3232P15</b> | ▲     | 32                   | 32 | 170 | 32 | 16   | 40 |          |       |        |       |          |
|              | <b>3232P19</b> | ▲     | 32                   | 32 | 170 | 32 | 16   | 40 | LEM10×27 | S19AP | WH40L  | L6    | SP6      |
|              | <b>4040R19</b> | ▲     | 40                   | 40 | 200 | 40 | 20   | 40 |          |       |        |       |          |

▲Stock available

△Make-to-order

## Applicable inserts

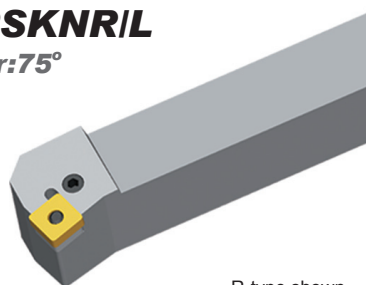
| Application      | For finishing                                                                                     | For semi-finishing                                                                                | For roughing                                                                                                      | For heavy machining                                                                                 | For cast iron machining                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b>  A67 | <b>PM</b>  A68 | <b>DR</b> Double-side  A70     | <b>HPR</b>  A72 | Without chipbreaker  A74 |
|                  | <b>EF</b>  A67 | <b>DM</b>  A68 | <b>DR</b> Single-side  A70 -71 |                                                                                                     |                                                                                                               |
|                  | <b>SF</b>  A67 | <b>EM</b>  A69 | <b>ER</b> Double-side  A71     |                                                                                                     |                                                                                                               |
|                  |                                                                                                   | <b>NM</b>  A69 | <b>ER</b> Single-side  A72     |                                                                                                     |                                                                                                               |
|                  |                                                                                                   |                                                                                                   | <b>SNR</b>  A72                |                                                                                                     |                                                                                                               |
|                  |                                                                                                   |                                                                                                   | <b>LR</b> Single-side  A69     |                                                                                                     |                                                                                                               |
| Tool holder type | <b>PSDNN□□K/M/P12</b>                                                                             | SN□□1204□□                                                                                        | SN□□1204□□                                                                                                        | SN□□1204□□                                                                                          | SN□□1204□□                                                                                                    |
|                  | <b>PSDNN□□M/P15</b>                                                                               | SN□□1506□□                                                                                        | SN□□1506□□                                                                                                        | SN□□1506□□                                                                                          | SN□□1506□□                                                                                                    |
|                  | <b>PSDNN□□P/R19</b>                                                                               |                                                                                                   | SN□□1906□□                                                                                                        | SN□□1906□□                                                                                          | SN□□1906□□                                                                                                    |

### Corresponding tool holders of insert **SN** ☐ ☐

P-type clamping

**PSKNR/L**

Kr:75°



R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw    | Shim  | Wrench | Lever | Shim pin |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|----------|-------|--------|-------|----------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |          |       |        |       |          |
| <b>PSKNR/L</b> | <b>1616H09</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 23 | LEM6×17  | S09AP | WH25L  | L3    | SP3      |
|                | <b>2020K09</b> | ▲     | △ | 20                   | 20 | 125 | 20 | 25 | 23 |          |       |        |       |          |
|                | <b>2020K12</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 28 |          |       |        |       |          |
|                | <b>2525M12</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 28 | LEM8×21  | S12AP | WH30L  | L4    | SP4      |
|                | <b>3232P12</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 32 |          |       |        |       |          |
|                | <b>2525M15</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 28 | LEM8×25  | S15AP | WH30L  | L5    | SP5      |
|                | <b>3232P15</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 32 |          |       |        |       |          |
|                | <b>3232P19</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 32 | LEM10×27 | S19AP | WH40L  | L6    | SP6      |
|                | <b>4040R19</b> | ▲     | ▲ | 40                   | 40 | 200 | 40 | 50 | 32 |          |       |        |       |          |

▲Stock available    △Make-to-order

### Applicable inserts

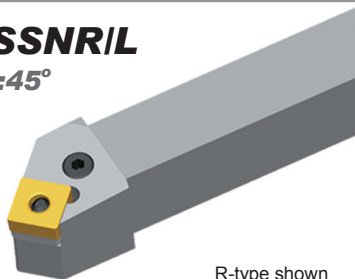
| Application      | For finishing                                                                                        | For semi-finishing                                                                                   | For roughing                                                                                                           | For heavy machining                                                                                    | For cast iron machining                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b><br> A67 | <b>PM</b><br> A68 | <b>DR</b><br>Double-side<br> A70    | <b>HPR</b><br> A72 | Without chipbreaker<br> A74 |
|                  | <b>EF</b><br> A67 | <b>DM</b><br> A68 | <b>DR</b><br>Single-side<br> A70-71 |                                                                                                        |                                                                                                                  |
|                  | <b>SF</b><br> A67 | <b>EM</b><br> A69 | <b>ER</b><br>Double-side<br> A71    |                                                                                                        |                                                                                                                  |
|                  |                                                                                                      | <b>NM</b><br> A69 | <b>ER</b><br>Single-side<br> A72    |                                                                                                        |                                                                                                                  |
|                  |                                                                                                      |                                                                                                      | <b>SNR</b><br> A72                  |                                                                                                        |                                                                                                                  |
|                  |                                                                                                      |                                                                                                      | <b>LR</b><br>Single-side<br> A69    |                                                                                                        |                                                                                                                  |
| Tool holder type | <b>PSKNR/L□□H/K09</b>                                                                                | SN□□0903□□                                                                                           | SN□□0903□□                                                                                                             |                                                                                                        | SN□□0903□□                                                                                                       |
|                  | <b>PSKNR/L□□K/M/P12</b>                                                                              | SN□□1204□□                                                                                           | SN□□1204□□                                                                                                             | SN□□1204□□                                                                                             | SN□□1204□□                                                                                                       |
|                  | <b>PSKNR/L□□M/P15</b>                                                                                | SN□□1506□□                                                                                           | SN□□1506□□                                                                                                             | SN□□1506□□                                                                                             | SN□□1506□□                                                                                                       |
|                  | <b>PSKNR/L□□P/R19</b>                                                                                |                                                                                                      | SN□□1906□□                                                                                                             | SN□□1906□□                                                                                             | SN□□1906□□                                                                                                       |

General turning

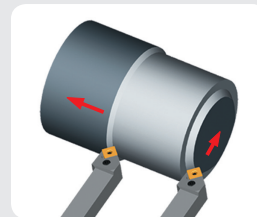
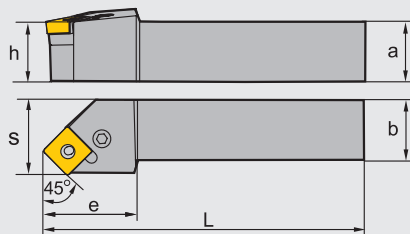
External turning tools

Corresponding tool holders of insert **SN** ☐ ☐

P-type clamping

**PSSNR/L**  
Kr:45°

R-type shown



| Type           | Stock            |   | Basic dimensions(mm) |    |    |     |    |    |    | Screw     | Shim     | Wrench | Lever | Shim pin |
|----------------|------------------|---|----------------------|----|----|-----|----|----|----|-----------|----------|--------|-------|----------|
|                | R                | L | a                    | b  | L  | h   | s  | e  |    |           |          |        |       |          |
| <b>PSSNR/L</b> | <b>1616H09</b>   | ▲ | ▲                    | 16 | 16 | 100 | 16 | 20 | 23 | LEM6×17   | S09AP    | WH25L  | L3    | SP3      |
|                | <b>2020K09</b>   | △ | △                    | 20 | 20 | 125 | 20 | 25 | 23 |           |          |        |       |          |
|                | <b>2020K12</b>   | ▲ | ▲                    | 20 | 20 | 125 | 20 | 25 | 28 |           |          |        |       |          |
|                | <b>2525M12</b>   | ▲ | ▲                    | 25 | 25 | 150 | 25 | 32 | 28 | LEM8×21   | S12AP    | WH30L  | L4    | SP4      |
|                | <b>3232P12</b>   | ▲ | ▲                    | 32 | 32 | 170 | 32 | 40 | 32 |           |          |        |       |          |
|                | <b>2525M15</b>   | ▲ | ▲                    | 25 | 25 | 150 | 25 | 32 | 28 |           |          |        |       |          |
|                | <b>3232P15</b>   | ▲ | ▲                    | 32 | 32 | 170 | 32 | 40 | 32 | LEM8×25   | S15AP    | WH30L  | L5    | SP5      |
|                | <b>3232P19</b>   | ▲ | ▲                    | 32 | 32 | 170 | 32 | 40 | 32 |           |          |        |       |          |
|                | <b>4040R19</b>   | ▲ | ▲                    | 40 | 40 | 200 | 40 | 50 | 32 |           |          |        |       |          |
|                | <b>4040S2507</b> | ▲ | ▲                    | 40 | 40 | 250 | 40 | 50 | 50 | LEM12×36A | S25AP    | WH50L  | L8    | SP8      |
|                | <b>4040S2509</b> | ▲ | ▲                    | 40 | 40 | 250 | 40 | 50 | 50 |           | S25AP-09 |        |       |          |

▲Stock available    △Make-to-order

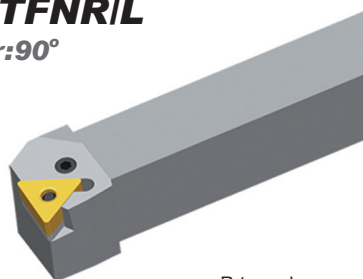
## Applicable inserts

| Application      | For finishing                                                                                     | For semi-finishing                                                                                | For roughing                                                                                                      | For heavy machining                                                                                 | For cast iron machining                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b>  A67 | <b>PM</b>  A68 | <b>DR</b> Double-side  A70     | <b>HPR</b>  A72 | Without chipbreaker  A74 |
|                  | <b>EF</b>  A67 | <b>DM</b>  A68 | <b>DR</b> Single-side  A70 -71 |                                                                                                     |                                                                                                               |
|                  | <b>SF</b>  A67 | <b>EM</b>  A69 | <b>ER</b> Double-side  A71     |                                                                                                     |                                                                                                               |
|                  |                                                                                                   | <b>NM</b>  A69 | <b>ER</b> Single-side  A72     |                                                                                                     |                                                                                                               |
|                  |                                                                                                   |                                                                                                   | <b>SNR</b>  A72                |                                                                                                     |                                                                                                               |
|                  |                                                                                                   |                                                                                                   | <b>LR</b> Single-side  A69     |                                                                                                     |                                                                                                               |
|                  |                                                                                                   |                                                                                                   |                                                                                                                   |                                                                                                     |                                                                                                               |
| Tool holder type | <b>PSSNR/L□□H/K09</b>                                                                             | SN□□0903□□                                                                                        | SN□□0903□□                                                                                                        | SN□□0903□□                                                                                          | SN□□0903□□                                                                                                    |
|                  | <b>PSSNR/L□□K/M/P12</b>                                                                           | SN□□1204□□                                                                                        | SN□□1204□□                                                                                                        | SN□□1204□□                                                                                          | SN□□1204□□                                                                                                    |
|                  | <b>PSSNR/L□□M/P15</b>                                                                             | SN□□1506□□                                                                                        | SN□□1506□□                                                                                                        | SN□□1506□□                                                                                          | SN□□1506□□                                                                                                    |
|                  | <b>PSSNR/L□□P/R19</b>                                                                             |                                                                                                   | SN□□1906□□                                                                                                        | SN□□1906□□                                                                                          | SN□□1906□□                                                                                                    |
|                  | <b>PSSNR/L□□S2507</b>                                                                             |                                                                                                   | SN□□2507□□                                                                                                        | SN□□2507□□                                                                                          |                                                                                                               |
|                  | <b>PSSNR/L□□S2509</b>                                                                             |                                                                                                   | SN□□2509□□                                                                                                        | SN□□2509□□                                                                                          |                                                                                                               |

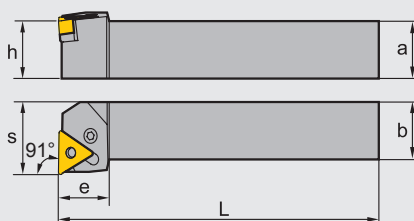
### Corresponding tool holders of insert **TN** ☐ ☐

P-type clamping

**PTFNR/L**  
Kr:90°



R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw   | Shim  | Wrench | Lever | Shim pin |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|---------|-------|--------|-------|----------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |         |       |        |       |          |
| <b>PTFNR/L</b> | <b>1616H16</b> | △     | ▲ | 16                   | 16 | 100 | 16 | 20 | 23 | LEM6×17 | T16AP | WH25L  | L3    | SP3      |
|                | <b>2020K16</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 23 |         |       |        |       |          |
|                | <b>2525M16</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 23 |         |       |        |       |          |
|                | <b>2525M22</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 28 | LEM8×21 | T22AP | WH30L  | L4    | SP4      |
|                | <b>3232P22</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 28 |         |       |        |       |          |
|                | <b>3232P27</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 34 | LEM8×25 | T27AP | WH30L  | L5    | SP5      |
|                | <b>4040S27</b> | ▲     | ▲ | 40                   | 40 | 250 | 40 | 50 | 34 |         |       |        |       |          |

▲Stock available

△Make-to-order

### Applicable inserts

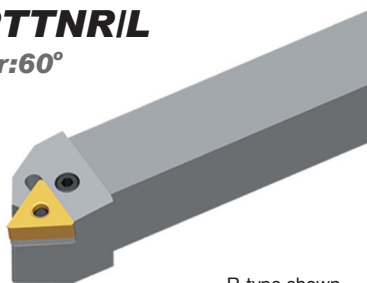
| Application      | For finishing                                                                                                  | For semi-finishing                                                                                             | For roughing                                                                                                        | For cast iron machining                                                                                          | PCBN&PCD inserts                                                                           |            |
|------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------|
| Inserts shape    | <b>DF</b><br> A75           | <b>WGM</b><br>Wiper<br> A76 | <b>DR</b><br>Double-side<br> A78 | Without chipbreaker<br> A80 |  A126 |            |
|                  | <b>WGF</b><br>Wiper<br> A75 | <b>PM</b><br> A76           | <b>DR</b><br>Single-side<br> A78 |                                                                                                                  |  A126 |            |
|                  | <b>SF</b><br> A75           | <b>DM</b><br> A77           | <b>ER</b><br>Double-side<br> A78 |                                                                                                                  |  A126 |            |
|                  | <b>EF</b><br> A76           | <b>EM</b><br> A77           | <b>SNR</b><br> A78               |                                                                                                                  |                                                                                            |            |
|                  |                                                                                                                |                                                                                                                | <b>LR</b><br>Single-side<br> A77 |                                                                                                                  |                                                                                            |            |
| Tool holder type | <b>PTFNR/L□□H/K/M16</b>                                                                                        | TN□□1604□□                                                                                                     | TN□□1604□□                                                                                                          | TN□□1604□□                                                                                                       | TN□□1604□□                                                                                 | TN□□1604□□ |
|                  | <b>PTFNR/L□□M/P22</b>                                                                                          | TN□□2204□□                                                                                                     | TN□□2204□□                                                                                                          | TN□□2204□□                                                                                                       | TN□□2204□□                                                                                 |            |
|                  | <b>PTFNR/L□□P/S27</b>                                                                                          |                                                                                                                |                                                                                                                     | TN□□2706□□                                                                                                       | TN□□2706□□                                                                                 |            |

General turning

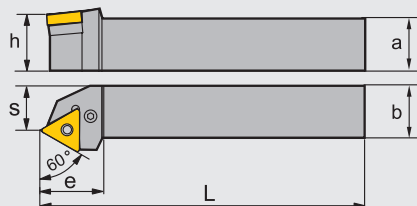
External turning tools

Corresponding tool holders of insert **TN** □ □

P-type clamping

**PTTNR/L****Kr:60°**

R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Wrench                                                                              | Lever                                                                               | Shim pin                                                                            |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |  |
| <b>PTTNR/L</b> | <b>1616H16</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 13 | 23 | LEM6×17                                                                           | T16AP                                                                               | WH25L                                                                               | L3                                                                                  | SP3                                                                                 |
|                | <b>2020K16</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 17 | 23 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M16</b> | △     | △ | 25                   | 25 | 150 | 25 | 22 | 23 | LEM8×21                                                                           | T22AP                                                                               | WH30L                                                                               | L4                                                                                  | SP4                                                                                 |
|                | <b>2525M22</b> | ▲     | ▲ | 25                   | 25 | 150 | 20 | 22 | 32 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

△Make-to-order

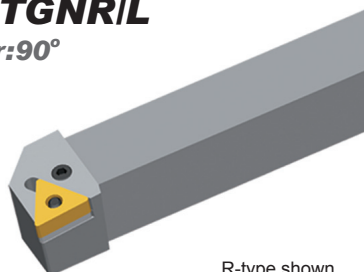
## Applicable inserts

| Application      | For finishing                                                                                                  | For semi-finishing                                                                                             | For roughing                                                                                                        | For cast iron machining                                                                                          | PCBN&PCD inserts                                                                           |
|------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b><br> A75           | <b>WGM</b><br>Wiper<br> A76 | <b>DR</b><br>Double-side<br> A78 | Without chipbreaker<br> A80 |  A126 |
|                  | <b>WGF</b><br>Wiper<br> A75 | <b>PM</b><br> A76           | <b>DR</b><br>Single-side<br> A78 |                                                                                                                  |  A126 |
|                  | <b>SF</b><br> A75           | <b>DM</b><br> A77           | <b>ER</b><br>Double-side<br> A78 |                                                                                                                  |  A126 |
|                  | <b>EF</b><br> A76           | <b>EM</b><br> A77           | <b>SNR</b><br> A78               |                                                                                                                  |                                                                                            |
|                  |                                                                                                                |                                                                                                                | <b>LR</b><br>Single-side<br> A77 |                                                                                                                  |                                                                                            |
| Tool holder type | <b>PTTNR/L□□H/K/M16</b>                                                                                        | TN□□1604□□                                                                                                     | TN□□1604□□                                                                                                          | TN□□1604□□                                                                                                       | TN□□1604□□                                                                                 |
|                  | <b>PTTNR/L□□M22</b>                                                                                            | TN□□2204□□                                                                                                     | TN□□2204□□                                                                                                          | TN□□2204□□                                                                                                       |                                                                                            |

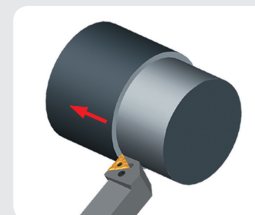
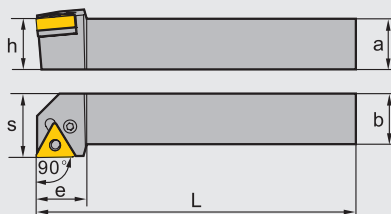
### Corresponding tool holders of insert **TN** ☐ ☐

P-type clamping

**PTGNR/L**  
Kr:90°



R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw   | Shim  | Wrench | Lever | Shim pin |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|---------|-------|--------|-------|----------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |         |       |        |       |          |
| <b>PTGNR/L</b> | <b>1616H16</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 23 | LEM6×17 | T16AP | WH25L  | L3    | SP3      |
|                | <b>2020K16</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 23 |         |       |        |       |          |
|                | <b>2525M16</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 23 |         |       |        |       |          |
|                | <b>3232P16</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 28 | LEM8×21 | T22AP | WH30L  | L4    | SP4      |
|                | <b>2525M22</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 28 |         |       |        |       |          |
|                | <b>3232P22</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 28 |         |       |        |       |          |
|                | <b>3232P27</b> | ▲     | ▲ | 32                   | 32 | 170 | 32 | 40 | 33 | LEM8×25 | T27AP | WH30L  | L5    | SP5      |
|                | <b>4040S27</b> | ▲     | ▲ | 40                   | 40 | 250 | 40 | 50 | 33 |         |       |        |       |          |

▲Stock available

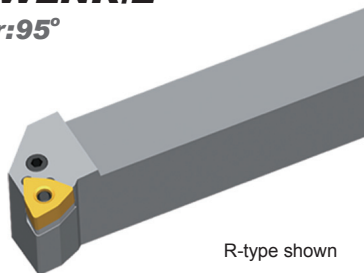
△Make-to-order

### Applicable inserts

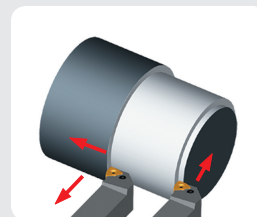
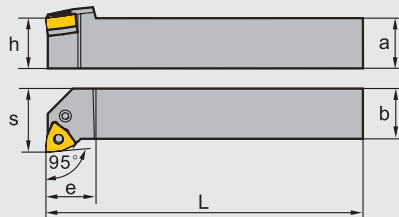
| Application      | For finishing              | For semi-finishing         | For roughing                    | For cast iron machining    | PCBN&PCD inserts |
|------------------|----------------------------|----------------------------|---------------------------------|----------------------------|------------------|
| Inserts shape    | <b>DF</b><br>Wiper<br>A75  | <b>WGM</b><br>Wiper<br>A76 | <b>DR</b><br>Double-side<br>A78 | Without chipbreaker<br>A80 | A126             |
|                  | <b>WGF</b><br>Wiper<br>A75 | <b>PM</b><br>A76           | <b>DR</b><br>Single-side<br>A78 |                            | A126             |
|                  | <b>SF</b><br>A75           | <b>DM</b><br>A77           | <b>ER</b><br>Double-side<br>A78 |                            | A126             |
|                  | <b>EF</b><br>A76           | <b>EM</b><br>A77           | <b>SNR</b><br>A78               |                            |                  |
|                  |                            |                            | <b>LR</b><br>Single-side<br>A77 |                            |                  |
| Tool holder type | <b>PTGNR/L□□H/K/M/P16</b>  | TN□□1604□□                 | TN□□1604□□                      | TN□□1604□□                 | TN□□1604□□       |
|                  | <b>PTGNR/L□□M/P22</b>      | TN□□2204□□                 | TN□□2204□□                      | TN□□2204□□                 |                  |
|                  | <b>PTGNR/L□□P/S27</b>      |                            | TN□□2706□□                      | TN□□2706□□                 |                  |

General turning

External turning tools

Corresponding tool holders of insert **WN** ☐ ☐ P-type clamping**PWLNRL****Kr:95°**

R-type shown



| Type            |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Wrench                                                                              | Lever                                                                               | Shim pin                                                                            |
|-----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |  |
| <b>PWLNRL/L</b> | <b>1616H06</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 23 | LEM6×17                                                                           | W06AP                                                                               | WH25L                                                                               | L3                                                                                  | SP3                                                                                 |
|                 | <b>2020K06</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 23 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                 | <b>2525M06</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 23 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                 | <b>2020K08</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 28 | LEM8×21                                                                           | W08AP                                                                               | WH30L                                                                               | L4                                                                                  | SP4                                                                                 |
|                 | <b>2525M08</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 28 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                 | <b>3232P08</b> | △     | △ | 32                   | 32 | 170 | 32 | 40 | 28 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

△Make-to-order

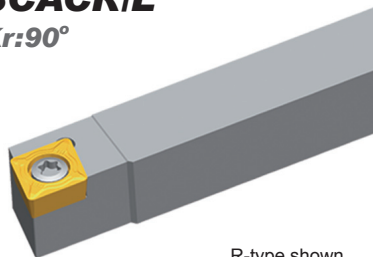
## Applicable inserts

| Application      | For finishing                                                                                                  | For semi-finishing                                                                                             | For roughing                                                                                                        | For cast iron machining                                                                                          | PCBN&PCD inserts                                                                           |
|------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Inserts shape    | <b>DF</b><br> A83           | <b>WGM</b><br>Wiper<br> A84 | <b>DR</b><br>Double-side<br> A86 | Without chipbreaker<br> A86 |  A128 |
|                  | <b>WGF</b><br>Wiper<br> A83 | <b>PM</b><br> A85           | <b>SNR</b><br> A86               |                                                                                                                  |  A128 |
|                  | <b>SF</b><br> A83           | <b>DM</b><br> A85           |                                                                                                                     |                                                                                                                  |                                                                                            |
|                  | <b>EF</b><br> A84           | <b>EM</b><br> A85           |                                                                                                                     |                                                                                                                  |                                                                                            |
|                  | <b>NF</b><br> A84           | <b>NM</b><br> A86           |                                                                                                                     |                                                                                                                  |                                                                                            |
| Tool holder type | <b>PWLNRL/□□□H/K/M06</b>                                                                                       | WN□□0604□□                                                                                                     | WN□□0604□□                                                                                                          | WN□□0604□□                                                                                                       | WN□□0604□□                                                                                 |
|                  | <b>PWLNRL/□□□K/M/P08</b>                                                                                       | WN□□0804□□                                                                                                     | WN□□0804□□                                                                                                          | WN□□0804□□                                                                                                       | WN□□0804□□                                                                                 |

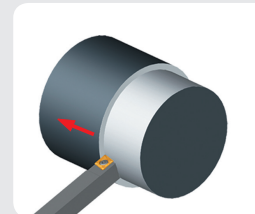
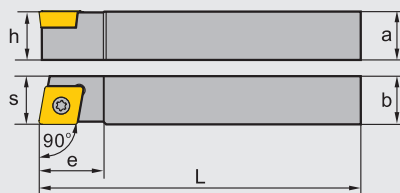
### Corresponding tool holders of insert **CC** ☐ ☐

S-type clamping

**SCACR/L**  
Kr:90°



R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                               | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |
| <b>SCACR/L</b> | <b>0808F06</b> | △     | △ | 8                    | 8  | 80  | 8  | 8  | 16 | I60M2.5×6.5                                                                         | WT07IP                                                                              |
|                | <b>1010H06</b> | ▲     | △ | 10                   | 10 | 100 | 10 | 10 | 16 |                                                                                     |                                                                                     |
|                | <b>1212H06</b> | △     | △ | 12                   | 12 | 100 | 12 | 12 | 16 |                                                                                     |                                                                                     |
|                | <b>1212H09</b> | ▲     | ▲ | 12                   | 12 | 100 | 12 | 12 | 20 | I60M3.5×8                                                                           | WT15IP                                                                              |
|                | <b>1616H09</b> | △     | △ | 16                   | 16 | 100 | 16 | 16 | 20 |                                                                                     |                                                                                     |

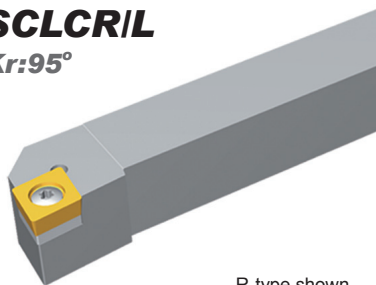
▲Stock available    △Make-to-order

### Applicable inserts

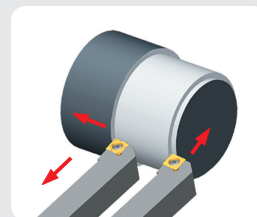
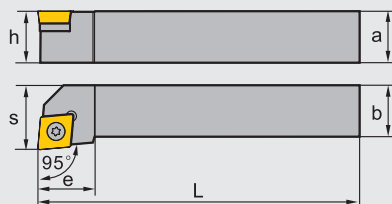
| Application      | For extra finishing                                                                                      | For finishing                                                                                           | For semi-finishing                                                                                      | For roughing                                                                                            | For Al machining                                                                                             | For cast iron machining                                                                                             | PCBN&PCD inserts                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Inserts shape    | <b>USF</b><br><br>A89 | <b>HF</b><br><br>A89 | <b>HM</b><br><br>A90 | <b>HR</b><br><br>A91 | <b>LH</b><br><br>A91-92 | Without chipbreaker<br><br>A92 | <br>A130 |
|                  | <b>SF</b><br><br>A89  | <b>EF</b><br><br>A90 | <b>EM</b><br><br>A90 |                                                                                                         | <b>LC</b><br><br>A91    |                                                                                                                     |                                                                                               |
| Tool holder type | <b>SCACR/L□□H/F06</b>                                                                                    | CC□□0602□□                                                                                              | CC□□0602□□                                                                                              | CC□□0602□□                                                                                              | CC□□0602□□                                                                                                   | CCGX 0602□□                                                                                                         | CC□□ 0602□□                                                                                   |
|                  | <b>SCACR/L□□H09</b>                                                                                      | CC□□09T3□□                                                                                              | CC□□09T3□□                                                                                              | CC□□09T3□□                                                                                              | CC□□09T3□□                                                                                                   | CCGX 09T3□□                                                                                                         | CC□□ 09T3□□                                                                                   |

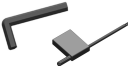
General turning

External turning tools

Corresponding tool holders of insert **CC** ☐ ☐ S-type clamping**SCLCR/L**  
Kr:95°

R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |
| <b>SCLCR/L</b> | <b>0808F06</b> | ▲     | △ | 08                   | 08 | 80  | 08 | 10 | 12 | I60M2.5×6.5                                                                       | ---                                                                                 | ---                                                                                 | WT071P                                                                              |
|                | <b>1010F06</b> | ▲     | ▲ | 10                   | 10 | 80  | 10 | 12 | 12 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1212H06</b> | △     | △ | 12                   | 12 | 100 | 12 | 16 | 12 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1616H06</b> | △     | △ | 16                   | 16 | 100 | 16 | 20 | 16 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1212H09</b> | ▲     | ▲ | 12                   | 12 | 100 | 12 | 16 | 16 | I60M3.5×8                                                                         | ---                                                                                 | ---                                                                                 | WT151P                                                                              |
|                | <b>1616H09</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 16 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K09</b> | △     | △ | 20                   | 20 | 125 | 20 | 25 | 16 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M09</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 | 16 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K12</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 20 | I60M4×11X                                                                         | C12BS                                                                               | SM6×10XA                                                                            | WT151P<br>WH40L                                                                     |
|                | <b>2525M12</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 20 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>3225M12</b> | ▲     | ▲ | 32                   | 25 | 150 | 32 | 32 | 20 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

△Make-to-order

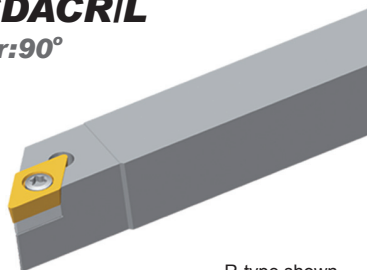
## Applicable inserts

| Application      |                                                                                                          | For extra finishing                                                                                     | For finishing                                                                                           | For semi-finishing                                                                                      | For roughing                                                                                                 | For Al machining                                                                                                    | For cast iron machining                                                                       | PCBN&PCD inserts |
|------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------|
| Inserts shape    | <b>USF</b><br><br>A89 | <b>HF</b><br><br>A89 | <b>HM</b><br><br>A90 | <b>HR</b><br><br>A91 | <b>LH</b><br><br>A91-92 | Without chipbreaker<br><br>A92 | <br>A130 |                  |
|                  | <b>SF</b><br><br>A89  | <b>EF</b><br><br>A90 | <b>EM</b><br><br>A90 |                                                                                                         | <b>LC</b><br><br>A91    |                                                                                                                     |                                                                                               |                  |
| Tool holder type | <b>SCLCR/L□□H/F06</b>                                                                                    | CC□□ 0602□□                                                                                             | CC□□ 0602□□                                                                                             | CC□□ 0602□□                                                                                             | CC□□ 0602□□                                                                                                  | CCGX 0602□□                                                                                                         | CC□□ 0602□□                                                                                   | CC□□ 0602□□      |
|                  | <b>SCLCR/L□□H/K/M09</b>                                                                                  | CC□□ 09T3□□                                                                                             | CC□□ 09T3□□                                                                                             | CC□□ 09T3□□                                                                                             | CC□□ 09T3□□                                                                                                  | CCGX 09T3□□                                                                                                         | CC□□ 09T3□□                                                                                   | CC□□ 09T3□□      |
|                  | <b>SCLCR/L□□K/M12</b>                                                                                    |                                                                                                         | CC□□ 1204□□                                                                                             | CC□□ 1204□□                                                                                             | CC□□ 1204□□                                                                                                  | CCGX 1204□□                                                                                                         | CC□□ 1204□□                                                                                   | CC□□ 1204□□      |

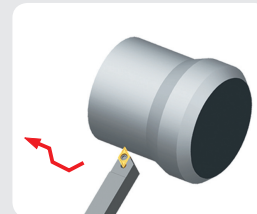
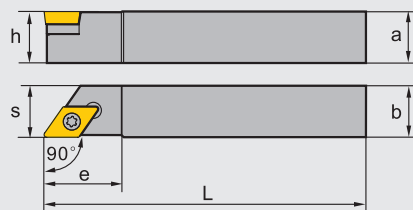
### Corresponding tool holders of insert **DC** ☐ ☐

S-type clamping

**SDACR/L**  
Kr:90°



R-type shown

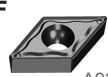


| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw       | Shim  | Shim screw | Wrench          |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-------------|-------|------------|-----------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |             |       |            |                 |
| <b>SDACR/L</b> | <b>0808K07</b> | △     | △ | 8                    | 8  | 125 | 8  | 8  | 15 | I60M2.5×6.5 | ---   | ---        | WT07IP          |
|                | <b>1010K07</b> | △     | △ | 10                   | 10 | 125 | 10 | 10 | 15 |             | ---   | ---        |                 |
|                | <b>1212K07</b> | △     | △ | 12                   | 12 | 125 | 10 | 10 | 15 |             | ---   | ---        |                 |
|                | <b>1212K11</b> | △     | △ | 12                   | 12 | 125 | 12 | 12 | 22 | I60M3.5×8   | ---   | ---        | WT15IP          |
|                | <b>1616K11</b> | △     | △ | 16                   | 16 | 125 | 16 | 16 | 22 | I60M3.5×12  | D11BS | SM5×8.65XA | WT15IP<br>WH35L |
|                | <b>2020K11</b> | △     | △ | 20                   | 20 | 125 | 20 | 20 | 22 |             |       |            |                 |
|                | <b>2525M11</b> | △     | △ | 25                   | 25 | 150 | 25 | 25 | 22 |             |       |            |                 |

▲Stock available

△Make-to-order

### Applicable inserts

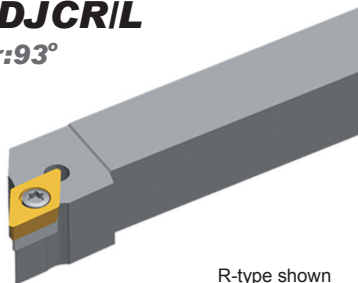
| Application      | For extra finishing                                                                                      | For finishing                                                                                           | For semi-finishing                                                                                      | For roughing                                                                                            | For Al machining                                                                                          | For cast iron machining                                                                                                    | PCBN&PCD inserts                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Inserts shape    | <b>USF</b><br><br>A93 | <b>HF</b><br><br>A93 | <b>HM</b><br><br>A94 | <b>HR</b><br><br>A95 | <b>LH</b><br><br>A95 | <b>Without chipbreaker</b><br><br>A95 | <br>A132 |
|                  | <b>SF</b><br><br>A93  | <b>EF</b><br><br>A94 | <b>EM</b><br><br>A94 |                                                                                                         | <b>LC</b><br><br>A95 |                                                                                                                            |                                                                                               |
| Tool holder type | <b>SDACR/L□□K07</b>                                                                                      | DC□□ 0702□□                                                                                             | DC□□ 0702□□                                                                                             | DC□□ 0702□□                                                                                             | DCGX 0702□□                                                                                               | DC□□ 0702□□                                                                                                                | DC□□ 0702□□                                                                                   |
|                  | <b>SDACR/L□□K/M11</b>                                                                                    | DC□□ 11T3□□                                                                                             | DC□□ 11T3□□                                                                                             | DC□□ 11T3□□                                                                                             | DCGX 11T3□□                                                                                               | DC□□ 11T3□□                                                                                                                | DC□□ 11T3□□                                                                                   |

General turning

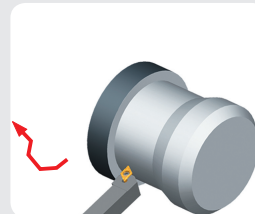
External turning tools

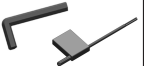
Corresponding tool holders of insert **DC** □ □

S-type clamping

**SDJCR/L**  
Kr:93°

R-type shown

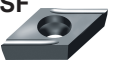
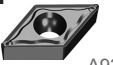
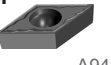


| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |
| <b>SDJCR/L</b> | <b>0808F07</b> | △     | △ | 8                    | 8  | 80  | 8  | 10 | 15 | I60M2.5×6.5                                                                       | ---                                                                                 | ---                                                                                 | WT07IP                                                                              |
|                | <b>1010F07</b> | ▲     | △ | 10                   | 10 | 80  | 10 | 12 | 15 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1212H07</b> | ▲     | ▲ | 12                   | 12 | 100 | 12 | 16 | 15 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1414H07</b> | △     | △ | 14                   | 14 | 100 | 14 | 18 | 15 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1616H07</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 15 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K07</b> | △     | △ | 20                   | 20 | 125 | 20 | 25 | 20 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M07</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 | 20 | I60M3.5×12                                                                        | D11BS                                                                               | SM5×8.65XA                                                                          | WT15IP<br>WH35L                                                                     |
|                | <b>1212K11</b> | △     | △ | 12                   | 12 | 125 | 12 | 16 | 22 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1616K11</b> | ▲     | ▲ | 16                   | 16 | 125 | 16 | 20 | 22 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K11</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 22 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M11</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 22 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

△Make-to-order

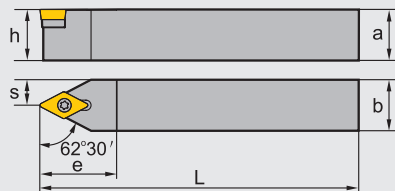
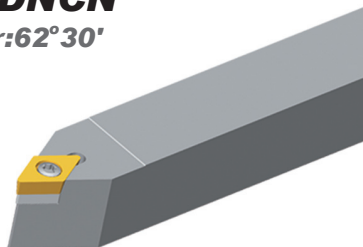
## Applicable inserts

| Application      | For extra finishing                                                                                      | For finishing                                                                                           | For semi-finishing                                                                                      | For roughing                                                                                             | For Al machining                                                                                          | For cast iron machining                                                                                                    | PCBN&PCD inserts                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Inserts shape    | <b>USF</b><br><br>A93 | <b>HF</b><br><br>A93 | <b>HM</b><br><br>A94 | <b>HR</b><br><br>A95 | <b>LH</b><br><br>A95 | <b>Without chipbreaker</b><br><br>A95 | <br>A132 |
|                  | <b>SF</b><br><br>A93  | <b>EF</b><br><br>A94 | <b>EM</b><br><br>A94 |                                                                                                          | <b>LC</b><br><br>A95 |                                                                                                                            |                                                                                               |
| Tool holder type | <b>SDJCR/L□□F/H/K/M07</b>                                                                                | DC□□0702□□                                                                                              | DC□□0702□□                                                                                              | DC□□0702□□                                                                                               | DCGX 0702□□                                                                                               | DC□□0702□□                                                                                                                 | DC□□0702□□                                                                                    |
|                  | <b>SDJCR/L□□K/M11</b>                                                                                    | DC□□11T3□□                                                                                              | DC□□11T3□□                                                                                              | DC□□11T3□□                                                                                               | DCGX 11T3□□                                                                                               | DC□□11T3□□                                                                                                                 | DC□□11T3□□                                                                                    |

### Corresponding tool holders of insert **DC** ☐ ☐

S-type clamping

**SDNCN**  
Kr:62°30'



General turning

External turning tools

| Type         |                | Stock | Basic dimensions(mm) |    |     |    |      |    | Screw       | Shim  | Shim screw | Wrench          |
|--------------|----------------|-------|----------------------|----|-----|----|------|----|-------------|-------|------------|-----------------|
|              |                |       | a                    | b  | L   | h  | s    | e  |             |       |            |                 |
| <b>SDNCN</b> | <b>0808F07</b> | △     | 8                    | 8  | 80  | 8  | 4    | 15 | I60M2.5×6.5 | ---   | ---        | WT07IP          |
|              | <b>1010F07</b> | ▲     | 10                   | 10 | 80  | 10 | 5    | 15 |             |       |            |                 |
|              | <b>1212H07</b> | ▲     | 12                   | 12 | 100 | 12 | 6    | 15 |             |       |            |                 |
|              | <b>1616H07</b> | △     | 16                   | 16 | 100 | 16 | 8    | 15 |             |       |            |                 |
|              | <b>2020K07</b> | △     | 20                   | 20 | 125 | 20 | 10   | 20 |             |       |            |                 |
|              | <b>2525M07</b> | △     | 25                   | 25 | 150 | 25 | 12.5 | 20 |             |       |            |                 |
|              | <b>1616K11</b> | ▲     | 16                   | 16 | 125 | 16 | 8    | 22 | I60M3.5×12  | D11BS | SM5×8.65XA | WT15IP<br>WH35L |
|              | <b>2020K11</b> | ▲     | 20                   | 20 | 125 | 20 | 10   | 22 |             |       |            |                 |
|              | <b>2525M11</b> | ▲     | 25                   | 25 | 150 | 25 | 12.5 | 22 |             |       |            |                 |
|              | <b>3225M11</b> | △     | 32                   | 25 | 150 | 32 | 12.5 | 22 |             |       |            |                 |
|              | <b>3232P11</b> | △     | 32                   | 32 | 170 | 32 | 16   | 22 |             |       |            |                 |

▲Stock available

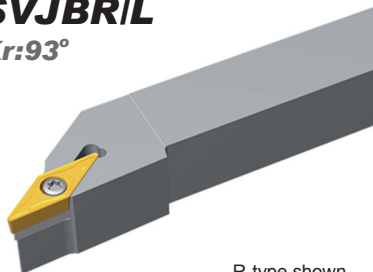
△Make-to-order

### Applicable inserts

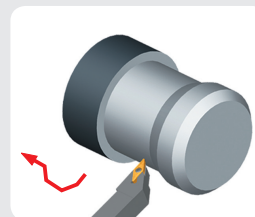
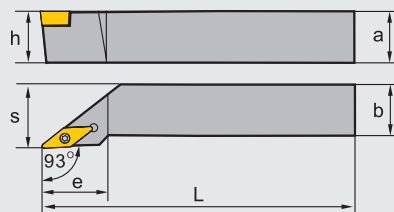
| Application      | For extra finishing     | For finishing    | For semi-finishing | For roughing     | For Al machining | For cast iron machining           | PCBN&PCD inserts |
|------------------|-------------------------|------------------|--------------------|------------------|------------------|-----------------------------------|------------------|
| Inserts shape    | <b>USF</b><br>A93       | <b>HF</b><br>A93 | <b>HM</b><br>A94   | <b>HR</b><br>A95 | <b>LH</b><br>A95 | Without chipbreaker<br><b>A95</b> | <b>A132</b>      |
|                  | <b>SF</b><br>A93        | <b>EF</b><br>A94 | <b>EM</b><br>A94   |                  | <b>LC</b><br>A95 |                                   |                  |
| Tool holder type | <b>SDNCN□□F/H/K/M07</b> | DC□□0702□□       | DC□□0702□□         | DC□□0702□□       | DCGX 0702□□      | DC□□0702□□                        | DC□□0702□□       |
|                  | <b>SDNCN□□K/M/P11</b>   | DC□□11T3□□       | DC□□11T3□□         | DC□□11T3□□       | DCGX 11T3□□      | DC□□11T3□□                        | DC□□11T3□□       |

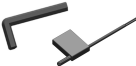
Corresponding tool holders of insert **VB** □ □

S-type clamping

**SVJBR/L****Kr:93°**

R-type shown

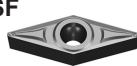
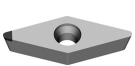
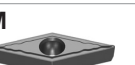


| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |
| <b>SVJBR/L</b> | <b>1212H11</b> | ▲     | ▲ | 12                   | 12 | 100 | 12 | 16 | 25 | I60M2.5×6.5                                                                       | ---                                                                                 | ---                                                                                 | WT071P                                                                              |
|                | <b>1616H11</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 25 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K11</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 25 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M11</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 25 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1616H16</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 35 | I60M3.5×12                                                                        | V16BS                                                                               | SM5×8.65XA                                                                          | WT151P<br>WH35L                                                                     |
|                | <b>2020K16</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 35 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M16</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 35 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

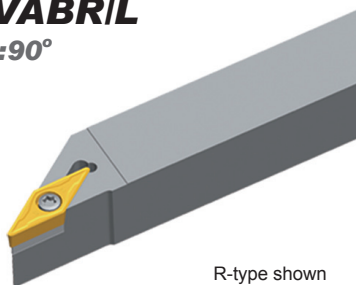
△Make-to-order

## Applicable inserts

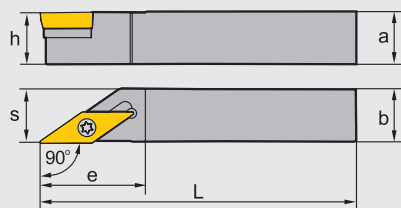
| Application      | For extra finishing                                                                                      | For finishing                                                                                             | For semi-finishing                                                                                       | For roughing                                                                                               | PCBN&PCD inserts                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Inserts shape    | <b>SF</b><br><br>A108 | <b>HF</b><br><br>A108  | <b>HM</b><br><br>A109 | <b>HR</b><br><br>A109  | <br>A135 |
|                  |                                                                                                          | <b>NF</b><br><br>A108  | <b>EM</b><br><br>A109 | <b>SNR</b><br><br>A109 | <br>A135 |
|                  |                                                                                                          | <b>EF</b><br><br>A108  |                                                                                                          |                                                                                                            |                                                                                               |
|                  |                                                                                                          | <b>NGF</b><br><br>A108 |                                                                                                          |                                                                                                            |                                                                                               |
| Tool holder type | <b>SVJBR/L□□H/K/M11</b>                                                                                  | VB□□1103□□                                                                                                | VB□□1103□□                                                                                               | VB□□1103□□                                                                                                 |                                                                                               |
|                  | <b>SVJBR/L□□H/K/M16</b>                                                                                  |                                                                                                           | VB□□1604□□                                                                                               | VB□□1604□□                                                                                                 | VB□□1604□□                                                                                    |

### Corresponding tool holders of insert **VB** ☐ ☐ S-type clamping

**SVABR/L**  
Kr:90°



R-type shown

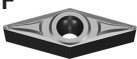
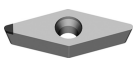
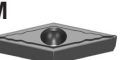
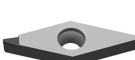


| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw       | Shim  | Shim screw | Wrench          |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-------------|-------|------------|-----------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |             |       |            |                 |
| <b>SVABR/L</b> | <b>1010F11</b> | △     | △ | 10                   | 10 | 80  | 10 | 10 | 25 | I60M2.5×6.5 | —     | —          | WT07IP          |
|                | <b>1616H16</b> | △     | △ | 16                   | 16 | 100 | 16 | 16 | 28 |             |       |            |                 |
|                | <b>2020K16</b> | △     | △ | 20                   | 20 | 125 | 20 | 20 | 28 | I60M3.5×12  | V16BS | SM5×8.65XA | WT15IP<br>WH35L |
|                | <b>2525M16</b> | △     | △ | 25                   | 25 | 150 | 25 | 25 | 28 |             |       |            |                 |

▲Stock available

△Make-to-order

### Applicable inserts

| Application      | For extra finishing                                                                                      | For finishing                                                                                               | For semi-finishing                                                                                          | For roughing                                                                                                | PCBN&PCD inserts                                                                                            |
|------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Inserts shape    | <b>SF</b><br><br>A108 | <b>HF</b><br><br>A108    | <b>HM</b><br><br>A109    | <b>HR</b><br><br>A109   | <br>A135               |
|                  |                                                                                                          | <b>NF</b><br><br>A108    | <b>EM</b><br><br>A109    | <b>SNR</b><br><br>A109  | <br>A135               |
|                  |                                                                                                          | <b>EF</b><br><br>A108    |                                                                                                             |                                                                                                             |                                                                                                             |
|                  |                                                                                                          | <b>NGF</b><br><br>A108   |                                                                                                             |                                                                                                             |                                                                                                             |
| Tool holder type | <b>SVABR/L</b> <input type="checkbox"/> <input type="checkbox"/> <b>F11</b>                              | VB <input type="checkbox"/> <input type="checkbox"/> 1103 <input type="checkbox"/> <input type="checkbox"/> | VB <input type="checkbox"/> <input type="checkbox"/> 1103 <input type="checkbox"/> <input type="checkbox"/> | VB <input type="checkbox"/> <input type="checkbox"/> 1103 <input type="checkbox"/> <input type="checkbox"/> |                                                                                                             |
|                  | <b>SVABR/L</b> <input type="checkbox"/> <input type="checkbox"/> <b>H/K/M16</b>                          |                                                                                                             | VB <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> | VB <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> | VB <input type="checkbox"/> <input type="checkbox"/> 1604 <input type="checkbox"/> <input type="checkbox"/> |

General turning

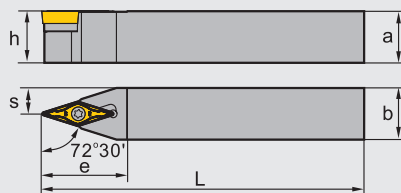
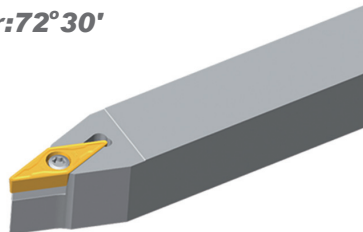
External turning tools

Corresponding tool holders of insert **VB** □ □

S-type clamping

**SVVBN**

Kr:72°30'

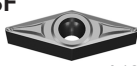
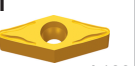
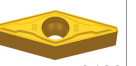
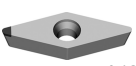
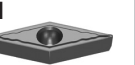
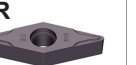
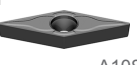
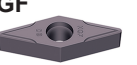


| Type         |                | Stock | Basic dimensions(mm) |    |     |    |      |    | Screw       | Shim  | Shim screw | Wrench          |
|--------------|----------------|-------|----------------------|----|-----|----|------|----|-------------|-------|------------|-----------------|
|              |                |       | a                    | b  | L   | h  | s    | e  |             |       |            |                 |
| <b>SVVBN</b> | <b>1212H11</b> | ▲     | 12                   | 12 | 100 | 12 | 6    | 25 | I60M2.5×6.5 | ---   | ---        | WT07IP          |
|              | <b>1616H11</b> | ▲     | 16                   | 16 | 100 | 16 | 8    | 25 |             |       |            |                 |
|              | <b>2020K11</b> | ▲     | 20                   | 20 | 125 | 20 | 10   | 25 |             |       |            |                 |
|              | <b>2525M11</b> | △     | 25                   | 25 | 150 | 25 | 12.5 | 35 |             |       |            |                 |
|              | <b>1616H16</b> | ▲     | 16                   | 16 | 100 | 16 | 8    | 35 | I60M3.5×12  | V16BS | SM5×8.65XA | WT15IP<br>WH35L |
|              | <b>2020K16</b> | ▲     | 20                   | 20 | 125 | 20 | 10   | 35 |             |       |            |                 |
|              | <b>2525M16</b> | ▲     | 25                   | 25 | 150 | 25 | 12.5 | 35 |             |       |            |                 |

▲Stock available

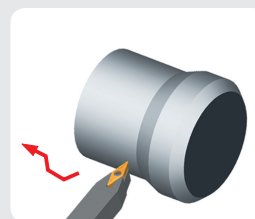
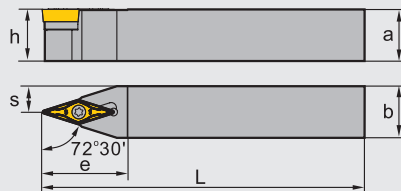
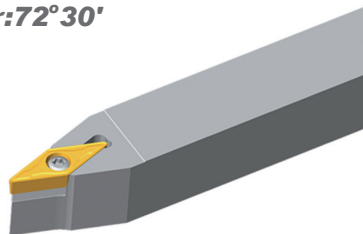
△Make-to-order

## Applicable inserts

| Application      | For extra finishing                                                                                      | For finishing                                                                                             | For semi-finishing                                                                                       | For roughing                                                                                               | PCBN&PCD inserts                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Inserts shape    | <b>SF</b><br><br>A108 | <b>HF</b><br><br>A108  | <b>HM</b><br><br>A109 | <b>HR</b><br><br>A109  | <br>A135 |
|                  |                                                                                                          | <b>NF</b><br><br>A108  | <b>EM</b><br><br>A109 | <b>SNR</b><br><br>A109 | <br>A135 |
|                  |                                                                                                          | <b>EF</b><br><br>A108  |                                                                                                          |                                                                                                            |                                                                                               |
|                  |                                                                                                          | <b>NGF</b><br><br>A108 |                                                                                                          |                                                                                                            |                                                                                               |
| Tool holder type | <b>SVVBN□□H/K/M11</b>                                                                                    | VB□□1103□□                                                                                                | VB□□1103□□                                                                                               | VB□□1103□□                                                                                                 |                                                                                               |
|                  | <b>SVVBN□□H/K/M16</b>                                                                                    |                                                                                                           | VB□□1604□□                                                                                               | VB□□1604□□                                                                                                 | VB□□1604□□                                                                                    |

### Corresponding tool holders of insert **VC** ☐ ☐ S-type clamping

**SVVCN**  
Kr:72°30'



| Type         |                | Stock | Basic dimensions(mm) |    |     |    |      |    | Screw       | Shim   | Shim screw | Wrench          |
|--------------|----------------|-------|----------------------|----|-----|----|------|----|-------------|--------|------------|-----------------|
|              |                |       | a                    | b  | L   | h  | s    | e  |             |        |            |                 |
| <b>SVVCN</b> | <b>1212H11</b> | ▲     | 12                   | 12 | 100 | 12 | 6    | 25 | I60M2.5×6.5 | ---    | ---        | WT07IP          |
|              | <b>1616H11</b> | ▲     | 16                   | 16 | 100 | 16 | 8    | 25 |             |        |            |                 |
|              | <b>2020K11</b> | ▲     | 20                   | 20 | 125 | 20 | 10   | 25 |             |        |            |                 |
|              | <b>2525M11</b> | △     | 25                   | 25 | 150 | 25 | 12.5 | 35 |             |        |            |                 |
|              | <b>1616H16</b> | ▲     | 16                   | 16 | 100 | 16 | 8    | 35 | I60M3.5×12  | V16BSC | SM5×8.65XA | WT15IP<br>WH35L |
|              | <b>2020K16</b> | ▲     | 20                   | 20 | 125 | 20 | 10   | 35 |             |        |            |                 |
|              | <b>2525M16</b> | ▲     | 25                   | 25 | 150 | 25 | 12.5 | 35 |             |        |            |                 |

▲Stock available

△Make-to-order

### Applicable inserts

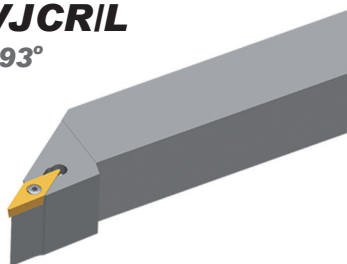
| Application      | For extra finishing                                                                                       | For finishing                                                                                             | For AI machining                                                                                          | PCBN&PCD inserts                                                                              |
|------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Inserts shape    | <b>USF</b><br><br>A105 | <b>HF</b><br><br>A105  | <b>LH</b><br><br>A106 | <br>A136 |
|                  | <b>SF</b><br><br>A105  | <b>NF</b><br><br>A105  | <b>LC</b><br><br>A106 | <br>A136 |
|                  |                                                                                                           | <b>NGF</b><br><br>A105 |                                                                                                           |                                                                                               |
|                  |                                                                                                           |                                                                                                           |                                                                                                           |                                                                                               |
| Tool holder type | <b>SVVCN□□H/K/M11</b>                                                                                     | VC□□1103□□                                                                                                | VC□□1103□□                                                                                                | VCGX1103□□                                                                                    |
|                  | <b>SVVCN□□H/K/M16</b>                                                                                     |                                                                                                           | VC□□1604□□                                                                                                | VCGX1604□□                                                                                    |
|                  |                                                                                                           |                                                                                                           |                                                                                                           | VC□□1604□□                                                                                    |

General turning

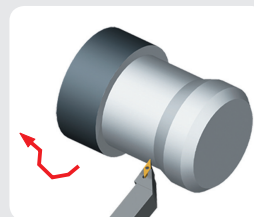
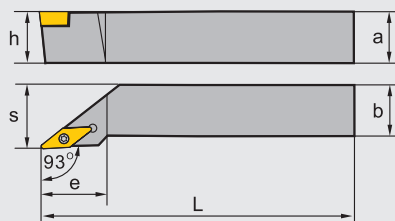
External turning tools

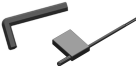
Corresponding tool holders of insert **VC** □ □

S-type clamping

**SVJCR/L****Kr:93°**

R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |
| <b>SVJCR/L</b> | <b>1212H11</b> | △     | △ | 12                   | 12 | 100 | 12 | 16 | 25 | I60M2.5×6.5                                                                       | ---                                                                                 | ---                                                                                 | WT071P                                                                              |
|                | <b>1616H11</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 25 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K11</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 25 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M11</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 35 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1616H16</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 35 | I60M3.5×12                                                                        | V16BSC                                                                              | SM5×8.65XA                                                                          | WT151P<br>WH35L                                                                     |
|                | <b>2020K16</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 35 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M16</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 35 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

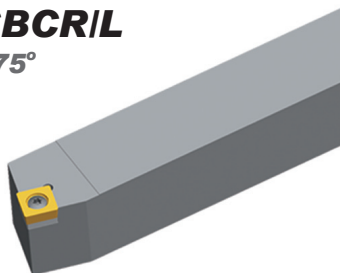
△Make-to-order

## Applicable inserts

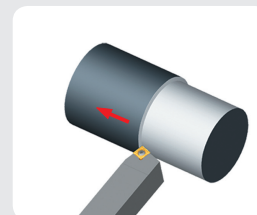
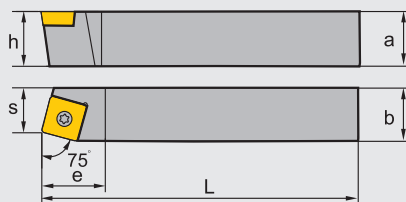
| Application      | For extra finishing                                                                                       | For finishing                                                                                             | For AI machining                                                                                          | PCBN&PCD inserts                                                                              |
|------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Inserts shape    | <b>USF</b><br><br>A105 | <b>HF</b><br><br>A105  | <b>LH</b><br><br>A106 | <br>A136 |
|                  | <b>SF</b><br><br>A105  | <b>NF</b><br><br>A105  | <b>LC</b><br><br>A106 | <br>A136 |
|                  |                                                                                                           | <b>NGF</b><br><br>A105 |                                                                                                           |                                                                                               |
|                  |                                                                                                           |                                                                                                           |                                                                                                           |                                                                                               |
| Tool holder type | <b>SVJCR/L□□H/K/M11</b>                                                                                   | VC□□1103□□                                                                                                | VC□□1103□□                                                                                                | VCGX1103□□                                                                                    |
|                  | <b>SVJCR/L□□H/K/M16</b>                                                                                   | VC□□1604□□                                                                                                | VC□□1604□□                                                                                                | VCGX1604□□                                                                                    |

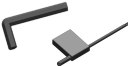
### Corresponding tool holders of insert **SC** ☐ ☐ S-type clamping

**SSBCR/L**  
Kr:75°



R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |
| <b>SSBCR/L</b> | <b>1212H09</b> | ▲     | ▲ | 12                   | 12 | 100 | 12 | 9  | 16 | I60M3.5×8                                                                         | ---                                                                                 | ---                                                                                 | WT15IP                                                                              |
|                | <b>1616H09</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 13 | 16 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K09</b> | △     | △ | 20                   | 20 | 125 | 20 | 17 | 20 | I60M3.5×12                                                                        | S09BS                                                                               | SM5×8.65XA                                                                          | WT15IP<br>WH35L                                                                     |
|                | <b>2525M09</b> | △     | △ | 25                   | 25 | 150 | 25 | 22 | 20 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K12</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 17 | 22 | I60M4×11X                                                                         | S12BS                                                                               | SM6×10XA                                                                            | WT15IP<br>WH40L                                                                     |
|                | <b>2525M12</b> | △     | △ | 25                   | 25 | 150 | 25 | 22 | 22 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

△Make-to-order

### Applicable inserts

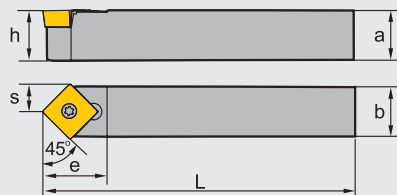
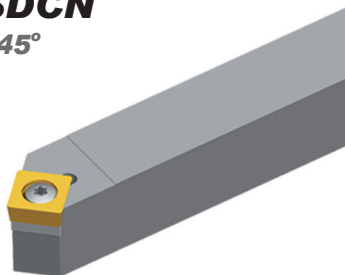
| Application      | For finishing                                                                                     | For semi-finishing                                                                                | For roughing                                                                                      | For Al machining                                                                                   | For cast iron machining                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Inserts shape    | <b>HF</b>  A98 | <b>HM</b>  A98 | <b>HR</b>  A99 | <b>LH</b>  A99 | Without chipbreaker  A99 |
|                  | <b>EF</b>  A98 | <b>EM</b>  A98 |                                                                                                   | <b>LC</b>  A99 |                                                                                                               |
| Tool holder type | <b>SSBCR/L□□H/K/M09</b>                                                                           | SC□□09T3□□                                                                                        | SC□□09T3□□                                                                                        | SC□□09T3□□                                                                                         | SC□□09T3□□                                                                                                    |
|                  | <b>SSBCR/L□□K/M12</b>                                                                             |                                                                                                   | SC□□1204□□                                                                                        | SC□□1204□□                                                                                         | SC□□1204□□                                                                                                    |

General turning

External turning tools

Corresponding tool holders of insert **SC** □ □

S-type clamping

**SSDCN**  
Kr:45°

| Type         |                | Stock | Basic dimensions(mm) |    |     |    |      |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|--------------|----------------|-------|----------------------|----|-----|----|------|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                |       | a                    | b  | L   | h  | s    | e  |  |  |  |  |
| <b>SSDCN</b> | <b>1212H09</b> | ▲     | 12                   | 12 | 100 | 12 | 6    | 16 | I60M3.5×8                                                                         | ---                                                                                 | ---                                                                                 | WT15IP                                                                              |
|              | <b>1616H09</b> | ▲     | 16                   | 16 | 100 | 16 | 8    | 16 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|              | <b>2020K09</b> | △     | 20                   | 20 | 125 | 20 | 10   | 20 | I60M3.5×12                                                                        | S09BS                                                                               | SM5×8.65×A                                                                          | WT15IP<br>WH35L                                                                     |
|              | <b>2525M09</b> | △     | 25                   | 25 | 150 | 25 | 12.5 | 20 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|              | <b>2525M12</b> | ▲     | 25                   | 25 | 150 | 25 | 12.5 | 22 | I60M4×11                                                                          | S12BS                                                                               | SM6×10×A                                                                            | WT15IP<br>WH40L                                                                     |

▲Stock available

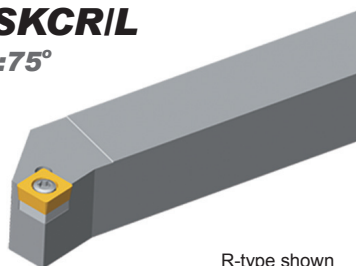
△Make-to-order

## Applicable inserts

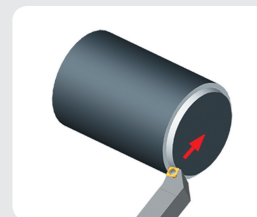
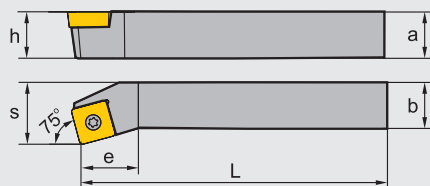
| Application      | For finishing                                                                                     | For semi-finishing                                                                                | For roughing                                                                                      | For Al machining                                                                                   | For cast iron machining                                                                                          |
|------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Inserts shape    | <b>HF</b>  A98 | <b>HM</b>  A98 | <b>HR</b>  A99 | <b>LH</b>  A99 | Without chipbreaker<br> A99 |
|                  | <b>EF</b>  A98 | <b>EM</b>  A98 |                                                                                                   | <b>LC</b>  A99 |                                                                                                                  |
| Tool holder type | <b>SSDCN□□H/K/M09</b>                                                                             | SC□□09T3□□                                                                                        | SC□□09T3□□                                                                                        | SC□□09T3□□                                                                                         | SCGX09T3□□                                                                                                       |
|                  | <b>SSDCN□□M12</b>                                                                                 |                                                                                                   | SC□□1204□□                                                                                        | SC□□1204□□                                                                                         | SCGX1204□□                                                                                                       |

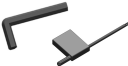
### Corresponding tool holders of insert **SC** ☐ ☐ S-type clamping

**SSKCR/L**  
Kr:75°



R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |
| <b>SSKCR/L</b> | <b>1212H09</b> | △     | △ | 12                   | 12 | 100 | 12 | 16 | 16 | I60M3.5×8                                                                         | ---                                                                                 | ---                                                                                 | WT15IP                                                                              |
|                | <b>1616H09</b> | ▲     | △ | 16                   | 16 | 100 | 16 | 20 | 16 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K09</b> | △     | △ | 20                   | 20 | 125 | 20 | 25 | 20 | I60M3.5×12                                                                        | S09BS                                                                               | SM5×8.65×A                                                                          | WT15IP<br>WH35L                                                                     |
|                | <b>2525M09</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 | 20 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K12</b> | △     | △ | 20                   | 20 | 125 | 20 | 25 | 22 | I60M4×11X                                                                         | S12BS                                                                               | SM6×10×A                                                                            | WT15IP<br>WH40L                                                                     |
|                | <b>2525M12</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 | 22 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

△Make-to-order

### Applicable inserts

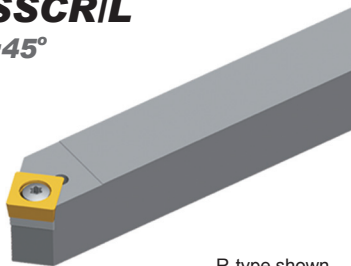
| Application      | For finishing                                                                                     | For semi-finishing                                                                                | For roughing                                                                                      | For Al machining                                                                                   | For cast iron machining                                                                                          |
|------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Inserts shape    | <b>HF</b>  A98 | <b>HM</b>  A98 | <b>HR</b>  A99 | <b>LH</b>  A99 | Without chipbreaker<br> A99 |
|                  | <b>EF</b>  A98 | <b>EM</b>  A98 |                                                                                                   | <b>LC</b>  A99 |                                                                                                                  |
| Tool holder type | <b>SSKCR/L□□H/K/M09</b>                                                                           | SC□□09T3□□                                                                                        | SC□□09T3□□                                                                                        | SC□□09T3□□                                                                                         | SC□□09T3□□                                                                                                       |
|                  | <b>SSKCR/L□□K/M12</b>                                                                             |                                                                                                   | SC□□1204□□                                                                                        | SC□□1204□□                                                                                         | SC□□1204□□                                                                                                       |

General turning

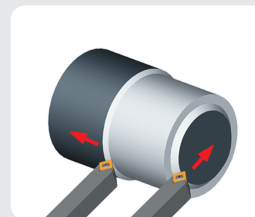
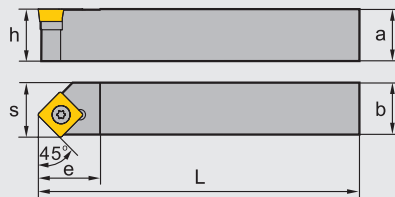
External turning tools

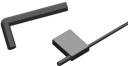
Corresponding tool holders of insert **SC** □ □

S-type clamping

**SSSCR/L****Kr:45°**

R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |
| <b>SSSCR/L</b> | <b>1212H09</b> | △     | △ | 12                   | 12 | 100 | 12 | 16 | 16 | I60M3.5×8                                                                         | ---                                                                                 | ---                                                                                 | WT15IP                                                                              |
|                | <b>1616H09</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 16 |                                                                                   | S09BS                                                                               | SM5×8.65XA                                                                          | WT15IP<br>WH35L                                                                     |
|                | <b>2020K09</b> | △     | △ | 20                   | 20 | 125 | 20 | 25 | 20 |                                                                                   | S09BS                                                                               | SM5×8.65XA                                                                          | WT15IP<br>WH35L                                                                     |
|                | <b>2525M09</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 | 20 | I60M4×11X                                                                         | S12BS                                                                               | SM6×10XA                                                                            | WT15IP<br>WH40L                                                                     |
|                | <b>2020K12</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 22 |                                                                                   | S12BS                                                                               | SM6×10XA                                                                            | WT15IP<br>WH40L                                                                     |
|                | <b>2525M12</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 | 22 |                                                                                   | S12BS                                                                               | SM6×10XA                                                                            | WT15IP<br>WH40L                                                                     |

▲Stock available

△Make-to-order

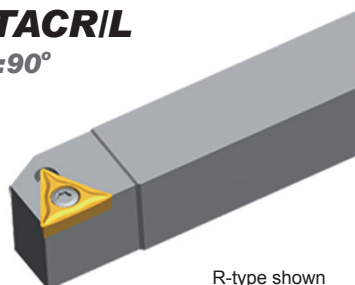
## Applicable inserts

| Application      |                                                                                                         | For finishing                                                                                           | For semi-finishing                                                                                      | For roughing                                                                                             | For Al machining                                                                                                    | For cast iron machining |
|------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------|
| Inserts shape    | <b>HF</b><br><br>A98 | <b>HM</b><br><br>A98 | <b>HR</b><br><br>A99 | <b>LH</b><br><br>A99 | Without chipbreaker<br><br>A99 |                         |
|                  | <b>EF</b><br><br>A98 | <b>EM</b><br><br>A98 |                                                                                                         |                                                                                                          | <b>LC</b><br><br>A99            |                         |
| Tool holder type | <b>SSSCR/L□□H/K/M09</b>                                                                                 | SC□□09T3□□                                                                                              | SC□□09T3□□                                                                                              | SC□□09T3□□                                                                                               | SCGX09T3□□                                                                                                          | SC□□09T3□□              |
|                  | <b>SSSCR/L□□K/M12</b>                                                                                   |                                                                                                         | SC□□1204□□                                                                                              | SC□□1204□□                                                                                               | SCGX1204□□                                                                                                          | SC□□1204□□              |

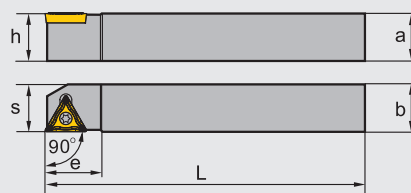
### Corresponding tool holders of insert **TC** ☐ ☐ S-type clamping

#### STACRIL

Kr:90°



R-type shown

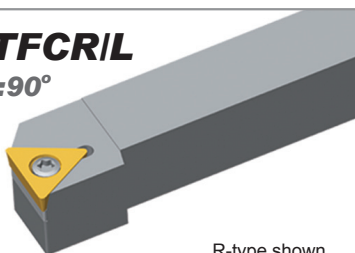


| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Wrench                                                                              | --- | --- |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-----|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  | --- | --- |
| <b>STACR/L</b> | <b>1010K11</b> | △     | △ | 10                   | 10 | 100 | 10 | 10 | 12 | I60M2.5×6.5                                                                       | WT07IP                                                                              | --- | --- |
|                | <b>1212F11</b> | △     | △ | 12                   | 12 | 100 | 12 | 12 | 16 |                                                                                   |                                                                                     | --- | --- |
|                | <b>1616K11</b> | △     | △ | 16                   | 16 | 100 | 16 | 16 | 16 |                                                                                   |                                                                                     | --- | --- |

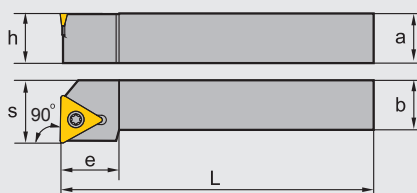
▲Stock available    △Make-to-order

#### STFCRIL

Kr:90°



R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                               | Shim                                                                                  | Shim screw                                                                            | Wrench                                                                                |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |
| <b>STFCR/L</b> | <b>1212H11</b> | ▲     | ▲ | 12                   | 12 | 100 | 12 | 16 | 16 | I60M2.5×6.5                                                                         | ---                                                                                   | ---                                                                                   | WT07IP                                                                                |
|                | <b>1616H11</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 16 |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|                | <b>2020K11</b> | △     | △ | 20                   | 20 | 125 | 20 | 25 | 20 |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|                | <b>2525M11</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 | 20 |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|                | <b>1616K16</b> | ▲     | ▲ | 16                   | 16 | 125 | 16 | 20 | 20 | I60M3.5×12                                                                          | T16BS                                                                                 | SM5×8.65XA                                                                            | WT15IP<br>WH35L                                                                       |
|                | <b>2020K16</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 25 |                                                                                     |                                                                                       |                                                                                       |                                                                                       |
|                | <b>2525M16</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 | 25 |                                                                                     |                                                                                       |                                                                                       |                                                                                       |

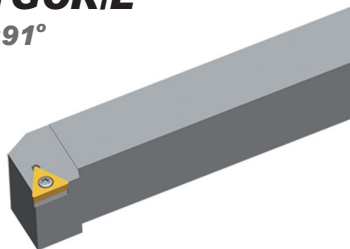
▲Stock available    △Make-to-order

#### Applicable inserts

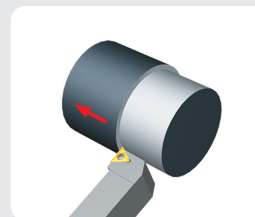
| Application      | For finishing                                                                                            | For semi-finishing                                                                                       | For roughing                                                                                             | For Al machining                                                                                          | For cast iron machining                                                                                              | PCBN&PCD inserts                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Inserts shape    | <b>HF</b><br><br>A101 | <b>HM</b><br><br>A103 | <b>HR</b><br><br>A103 | <b>LH</b><br><br>A104 | Without chipbreaker<br><br>A104 | <br>A134 |
|                  | <b>EF</b><br><br>A102 | <b>EM</b><br><br>A102 |                                                                                                          | <b>LC</b><br><br>A103 |                                                                                                                      |                                                                                               |
| Tool holder type | <b>STACR/L□□K/F11</b>                                                                                    | TC□□1102□□                                                                                               | TC□□1102□□                                                                                               | TC□□1102□□                                                                                                | TCGX1102□□                                                                                                           | TC□□1102□□                                                                                    |
|                  | <b>STFCR/L□□H/K/M11</b>                                                                                  | TC□□1102□□                                                                                               | TC□□1102□□                                                                                               | TC□□1102□□                                                                                                | TCGX1102□□                                                                                                           | TC□□1102□□                                                                                    |
|                  | <b>STFCR/L□□K/M16</b>                                                                                    | TC□□16T3□□                                                                                               | TC□□16T3□□                                                                                               | TC□□16T3□□                                                                                                | TCGX16T3□□                                                                                                           | TC□□16T3□□                                                                                    |

Corresponding tool holders of insert **TC** ☐ ☐

S-type clamping

**STGCR/L**  
Kr:91°

R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  |  |  |
| <b>STGCR/L</b> | <b>0808F09</b> | ▲     | △ | 08                   | 08 | 80  | 8  | 10 | 12 | I60M2.2×5.5                                                                       | ---                                                                                 | ---                                                                                 | WT06IP                                                                              |
|                | <b>1010F09</b> | ▲     | ▲ | 10                   | 10 | 80  | 10 | 12 | 12 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1212H09</b> | △     | △ | 12                   | 12 | 100 | 12 | 16 | 12 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1212H11</b> | ▲     | ▲ | 12                   | 12 | 100 | 12 | 16 | 16 | I60M2.5×6.5                                                                       | ---                                                                                 | ---                                                                                 | WT07IP                                                                              |
|                | <b>1616H11</b> | ▲     | ▲ | 16                   | 16 | 100 | 16 | 20 | 16 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K11</b> | △     | △ | 20                   | 20 | 125 | 20 | 25 | 20 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M11</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 | 20 | I60M3.5×12                                                                        | T16BS                                                                               | SM5×8.65XA                                                                          | WT15IP<br>WH35L                                                                     |
|                | <b>1616K16</b> | △     | △ | 16                   | 16 | 125 | 16 | 20 | 20 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K16</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 | 25 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M16</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 | 25 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

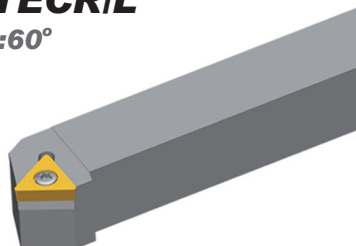
▲Stock available    △Make-to-order

## Applicable inserts

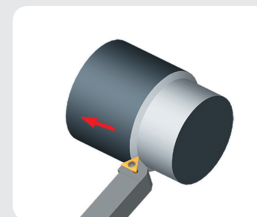
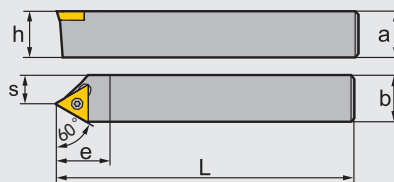
| Application      | For extra finishing                                                                                       | For finishing                                                                                            | For semi-finishing                                                                                       | For roughing                                                                                             | For Al machining                                                                                           | For cast iron machining                                                                                              | PCBN&PCD inserts                                                                              |            |
|------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------|
| Inserts shape    | <b>USF</b><br><br>A100 | <b>HF</b><br><br>A101 | <b>HM</b><br><br>A103 | <b>HR</b><br><br>A103 | <b>LH</b><br><br>A104 | Without chipbreaker<br><br>A104 | <br>A134 |            |
|                  | <b>SF</b><br><br>A100  | <b>EF</b><br><br>A102 | <b>EM</b><br><br>A102 |                                                                                                          | <b>LC</b><br><br>A103 |                                                                                                                      |                                                                                               |            |
| Tool holder type | <b>STGCR/L□□F/H09</b>                                                                                     | TC□□0902□□                                                                                               | TC□□0902□□                                                                                               | TC□□0902□□                                                                                               | TC□□0902□□                                                                                                 | TCGX0902□□                                                                                                           | TC□□0902□□                                                                                    | TC□□0902□□ |
|                  | <b>STGCR/L□□H/K/M11</b>                                                                                   |                                                                                                          | TC□□1102□□                                                                                               | TC□□1102□□                                                                                               | TC□□1102□□                                                                                                 | TCGX1102□□                                                                                                           | TC□□1102□□                                                                                    | TC□□1102□□ |
|                  | <b>STGCR/L□□K/M16</b>                                                                                     |                                                                                                          | TC□□16T3□□                                                                                               | TC□□16T3□□                                                                                               | TC□□16T3□□                                                                                                 | TCGX16T3□□                                                                                                           | TC□□16T3□□                                                                                    | TC□□16T3□□ |

### Corresponding tool holders of insert **TC** ☐ ☐ S-type clamping

**STECR/L**  
Kr:60°



R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |      |    | Screw       | Shim  | Shim screw | Wrench |
|----------------|----------------|-------|---|----------------------|----|-----|----|------|----|-------------|-------|------------|--------|
|                |                | R     | L | a                    | b  | L   | h  | s    | e  |             |       |            |        |
| <b>STECR/L</b> | <b>1616H11</b> | △     | △ | 16                   | 16 | 100 | 16 | 10.5 | 16 | I60M2.5×6.5 | ---   | ---        | WT071P |
|                | <b>2020K11</b> | △     | △ | 20                   | 20 | 125 | 20 | 14.5 | 20 |             | ---   | ---        | WT151P |
|                | <b>2020K16</b> | △     | △ | 20                   | 20 | 125 | 20 | 12.5 | 20 | I60M3.5×12  | T16BS | SM5×8.65XA | WT151P |
|                | <b>2525M16</b> | △     | △ | 25                   | 25 | 150 | 25 | 17.0 | 25 |             | T16BS | SM5×8.65XA | WT351P |

▲Stock available

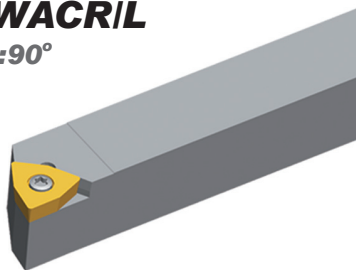
△Make-to-order

### Applicable inserts

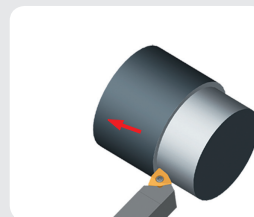
| Application      | For finishing                                                                                            | For semi-finishing                                                                                       | For roughing                                                                                             | For Al machining                                                                                          | For cast iron machining                                                                                              | PCBN&PCD inserts                                                                              |            |
|------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------|
| Inserts shape    | <b>HF</b><br><br>A101 | <b>HM</b><br><br>A103 | <b>HR</b><br><br>A103 | <b>LH</b><br><br>A104 | Without chipbreaker<br><br>A104 | <br>A134 |            |
|                  | <b>EF</b><br><br>A102 | <b>EM</b><br><br>A102 |                                                                                                          | <b>LC</b><br><br>A103 |                                                                                                                      |                                                                                               |            |
| Tool holder type | <b>STECR/L□□H/K11</b>                                                                                    | TC□□1102□□                                                                                               | TC□□1102□□                                                                                               | TC□□1102□□                                                                                                | TCGX1102□□                                                                                                           | TC□□1102□□                                                                                    | TC□□1102□□ |
|                  | <b>STECR/L□□K/M16</b>                                                                                    | TC□□16T3□□                                                                                               | TC□□16T3□□                                                                                               | TC□□16T3□□                                                                                                | TCGX16T3□□                                                                                                           | TC□□16T3□□                                                                                    | TC□□16T3□□ |

General turning

External turning tools

Corresponding tool holders of insert **WC** ☐ ☐ S-type clamping**SWACR/L**  
Kr:90°

R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    |    | Screw                                                                             | Wrench                                                                              | — | — |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|---|
|                |                | R     | L | a                    | b  | L   | h  | s  | e  |  |  | — | — |
| <b>SWACR/L</b> | <b>1010E04</b> | △     | △ | 10                   | 10 | 70  | 10 | 10 | 10 | I60M2.5×6.5                                                                       | WT07IP                                                                              | — | — |
|                | <b>1212F04</b> | ▲     | △ | 12                   | 12 | 80  | 12 | 12 | 14 |                                                                                   |                                                                                     | — | — |
|                | <b>1616H06</b> | ▲     | △ | 16                   | 16 | 100 | 16 | 16 | 20 | I60M3×7                                                                           | WT10IP                                                                              | — | — |
|                | <b>2020K08</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 20 | 24 | I60M3.5×12                                                                        | WT15IP                                                                              | — | — |

▲Stock available

△Make-to-order

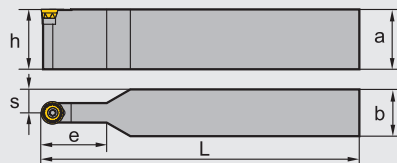
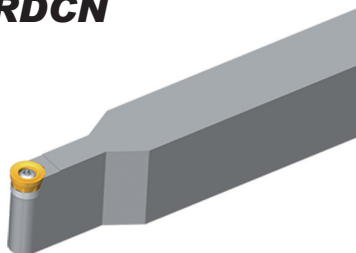
## Applicable inserts

| Application           | For finishing                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------|
| Inserts shape         | <b>53</b><br> |
| Tool holder type      | A107                                                                                             |
| <b>SWACR/L□□E/F04</b> | WC□X0402□□                                                                                       |
| <b>SWACR/L□□H06</b>   | WC□X06T3□□                                                                                       |
| <b>SWACR/L□□K08</b>   | WC□X0804□□                                                                                       |

### Corresponding tool holders of insert **RC** ☐ ☐

S-type clamping

#### SRDCN



| Type         |                | Stock | Basic dimensions(mm) |    |     |    |      |    | Screw      | Shim  | Shim screw | Wrench          |
|--------------|----------------|-------|----------------------|----|-----|----|------|----|------------|-------|------------|-----------------|
|              |                |       | a                    | b  | L   | h  | s    | e  |            |       |            |                 |
| <b>SRDCN</b> | <b>1616H08</b> | △     | 16                   | 16 | 100 | 16 | 12   | 16 | I60M3×7    | ---   | ---        | WT10IP          |
|              | <b>2020K08</b> | △     | 20                   | 20 | 125 | 20 | 14   | 16 |            |       |            |                 |
|              | <b>2525M08</b> | △     | 25                   | 25 | 150 | 25 | 17.5 | 16 |            |       |            |                 |
|              | <b>2020K10</b> | △     | 20                   | 20 | 125 | 20 | 15   | 20 | I60M3.5×10 | ---   | ---        | WT15IP          |
|              | <b>2525M10</b> | ▲     | 25                   | 25 | 150 | 25 | 17.5 | 20 |            |       |            |                 |
|              | <b>2525M12</b> | ▲     | 25                   | 25 | 150 | 25 | 18.5 | 24 | I60M3.5×12 | R12BS | SM5×8.65XA | WT15IP<br>WH35L |
|              | <b>3232P12</b> | △     | 32                   | 32 | 170 | 32 | 22   | 24 |            |       |            |                 |
|              | <b>3225P16</b> | ▲     | 32                   | 25 | 170 | 32 | 16   | 40 | I60M4×15X  | R16BS | SM6×10XA   | WT15IP<br>WH40L |
|              | <b>4040S16</b> | △     | 40                   | 40 | 250 | 40 | 20   | 50 |            |       |            |                 |

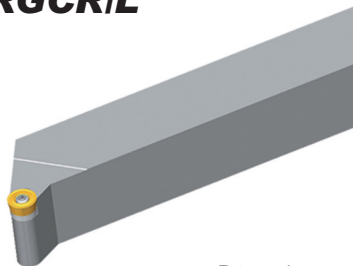
▲Stock available    △Make-to-order

#### Applicable inserts

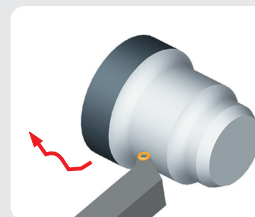
| Application      | For semi-finishing                                                                  | For roughing                                                                        | For Al machining                                                                              |                                                                                       |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Inserts shape    |  |  | <b>LH</b>  |  |
|                  | A96                                                                                 | A96                                                                                 | A96                                                                                           | A96                                                                                   |
| Tool holder type | <b>SRDCN□□H/K/M08</b>                                                               | RCMT0803MO                                                                          | RCMT0803MO                                                                                    | RCGX0803MO-LH                                                                         |
|                  | <b>SRDCN□□K/M10</b>                                                                 | RCMT10T3MO                                                                          | RCMT10T3MO                                                                                    | RCMT10T3MO                                                                            |
|                  | <b>SRDCN□□M/P12</b>                                                                 | RCMT1204MO                                                                          | RCMT1204MO                                                                                    | RCMT1204MO                                                                            |
|                  | <b>SRDCN□□P/S16</b>                                                                 | RCMT1606MO                                                                          | RCMT1606MO                                                                                    | RCMT1606MO                                                                            |

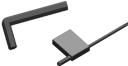
Corresponding tool holders of insert **RC** ☐ ☐

S-type clamping

**SRGCR/L**

R-type shown



| Type           |                | Stock |   | Basic dimensions(mm) |    |     |    |    | Screw                                                                             | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|----------------|----------------|-------|---|----------------------|----|-----|----|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                | R     | L | a                    | b  | L   | h  | s  |  |  |  |  |
| <b>SRGCR/L</b> | <b>1616H08</b> | △     | △ | 16                   | 16 | 100 | 16 | 20 | I60M3×7                                                                           | ---                                                                                 | ---                                                                                 | WT10IP                                                                              |
|                | <b>2020K08</b> | △     | △ | 20                   | 20 | 125 | 20 | 25 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M08</b> | △     | △ | 25                   | 25 | 150 | 25 | 32 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>1616H10</b> | △     | △ | 16                   | 16 | 100 | 16 | 20 | I60M3.5×10                                                                        | ---                                                                                 | ---                                                                                 | WT15IP                                                                              |
|                | <b>2020K10</b> | ▲     | ▲ | 20                   | 20 | 125 | 20 | 25 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M10</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2020K12</b> | ▲     | △ | 20                   | 20 | 125 | 20 | 25 | I60M3.5×12                                                                        | R12BS                                                                               | SM5×8.65XA                                                                          | WT15IP<br>WH35L                                                                     |
|                | <b>2525M12</b> | ▲     | ▲ | 25                   | 25 | 150 | 25 | 32 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                | <b>3232P16</b> | ▲     | △ | 32                   | 32 | 170 | 32 | 40 | I60M4×15X                                                                         | R16BS                                                                               | SM6×10XA                                                                            | WT15IP<br>WH40L                                                                     |

▲Stock available

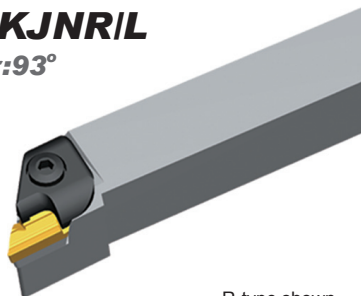
△Make-to-order

## Applicable inserts

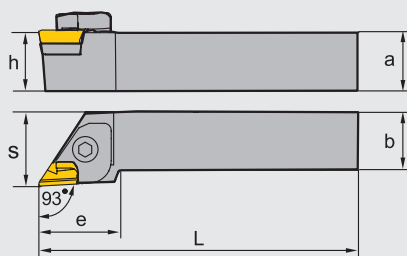
| Application      | For semi-finishing                                                                  | For roughing                                                                        | For AI machining                                                                                  |                                                                                       |
|------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Inserts shape    |  |  | <b>LH</b><br> |  |
|                  | A96                                                                                 | A96                                                                                 | A96                                                                                               | A96                                                                                   |
| Tool holder type | <b>SRGCR/L□□H/K/M08</b>                                                             | RCMT0803MO                                                                          | RCMT0803MO                                                                                        | RCGX0803MO-LH                                                                         |
|                  | <b>SRGCR/L□□H/K/M10</b>                                                             | RCMT10T3MO                                                                          | RCMT10T3MO                                                                                        | RCMT10T3MO                                                                            |
|                  | <b>SRGCR/L□□K/M12</b>                                                               | RCMT1204MO                                                                          | RCMT1204MO                                                                                        | RCMT1204MO                                                                            |
|                  | <b>SRGCR/L□□P16</b>                                                                 | RCMT1606MO                                                                          | RCMT1606MO                                                                                        | RCMT1606MO                                                                            |

### Corresponding tool holders of insert **KNUX** ☐ ☐ C-type clamping

**CKJNR/L**  
Kr:93°



R-type shown



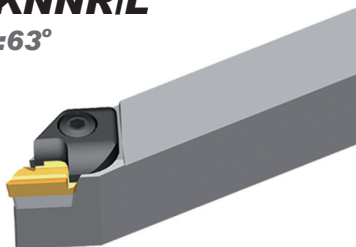
| Type         |                | Stock | Basic dimensions(mm) |    |     |    |    |    | Applicable inserts                                                                | Clamp                                                                             | Clamp screw                                                                       | Spring                                                                              | Clamping stud                                                                       | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|--------------|----------------|-------|----------------------|----|-----|----|----|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              |                |       | a                    | b  | L   | h  | s  | e  |  |  |  |  |  |  |  |  |
| <b>CKJNR</b> | <b>2525M16</b> | △     | 25                   | 25 | 150 | 25 | 32 | 32 | KNUX1604□□R<br>A87                                                                | C6R1T                                                                             | CM6×25A                                                                           | SPR1<br>SPR2                                                                        | P0515                                                                               | K16CC                                                                               | SM3×10B                                                                             | WH20L<br>WH40L                                                                      |
|              | <b>3232P16</b> | △     | 32                   | 32 | 170 | 32 | 40 | 32 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|              | <b>4040R16</b> | △     | 40                   | 40 | 200 | 40 | 50 | 32 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>CKJNL</b> | <b>2525M16</b> | △     | 25                   | 25 | 150 | 25 | 32 | 32 | KNUX1604□□L<br>A87                                                                | C6L1T                                                                             | CM6×25A                                                                           | SPR1<br>SPR2                                                                        | P0515                                                                               | K16CCL                                                                              | SM3×10B                                                                             | WH20L<br>WH40L                                                                      |
|              | <b>3232P16</b> | △     | 32                   | 32 | 170 | 32 | 40 | 32 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|              | <b>4040R16</b> | △     | 40                   | 40 | 200 | 40 | 50 | 32 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

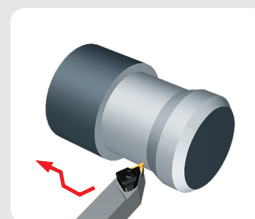
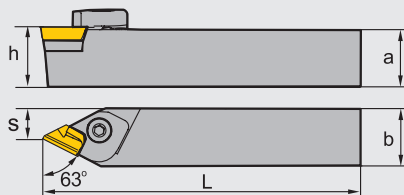
△Make-to-order

General turning

External turning tools

Corresponding tool holders of insert **KNUX** ☐ ☐ C-type clamping**CKNNR/L****Kr:63°**

R-type shown



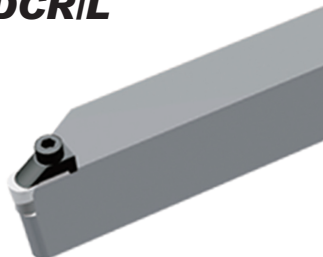
| Type  |         | Stock | Basic dimensions(mm) |    |     |    |      | Applicable inserts                                                                | Clamp                                                                             | Clamp screw                                                                        | Spring                                                                              | Clamping stud                                                                       | Shim                                                                                | Shim screw                                                                          | Wrench                                                                              |
|-------|---------|-------|----------------------|----|-----|----|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|       |         |       | a                    | b  | L   | h  | s    |  |  |  |  |  |  |  |  |
| CKNNR | 2525M16 | △     | 25                   | 25 | 150 | 25 | 14.3 | KNUX1604□□R<br>A87                                                                | C6R1T                                                                             | CM6×25A                                                                            | SPR1<br>SPR2                                                                        | P0515                                                                               | K16CC                                                                               | SM3×10B                                                                             | WH20L<br>WH40L                                                                      |
|       | 3232P16 | △     | 32                   | 32 | 170 | 32 | 16.8 |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| CKNNL | 2525M16 | △     | 25                   | 25 | 150 | 25 | 14.3 | KNUX1604□□L<br>A87                                                                | C6L1T                                                                             | CM6×25A                                                                            | SPR1<br>SPR2                                                                        | P0515                                                                               | K16CCL                                                                              | SM3×10B                                                                             |                                                                                     |
|       | 3232P16 | △     | 32                   | 32 | 170 | 32 | 16.8 |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

▲Stock available

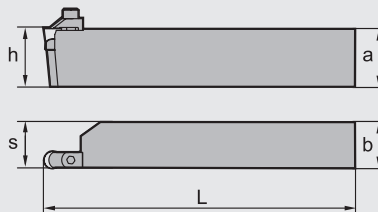
△Make-to-order

### Corresponding tool holders of insert **RC/P** ☐ ☐ C-type clamping

#### CRDCR/L



R-type shown



| Type           |                    | Stock |   | Basic dimensions(mm) |    |     |    |      |    | Applicable inserts                                                                | Clamp                                                                              | Clamping screw                                                                      | Wrench                                                                              | Shim                                                                                |
|----------------|--------------------|-------|---|----------------------|----|-----|----|------|----|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                |                    | R     | L | a                    | b  | L   | h  | s    | Ar |  |  |  |  |  |
| <b>CRDCR/L</b> | <b>2525M09V-19</b> | △     | △ | 25                   | 25 | 150 | 25 | 25.5 | 19 | RCGN0907 <input type="checkbox"/> <input type="checkbox"/><br>A140                | C3RH                                                                               | M5*16<br>(GB70-85)                                                                  | WH40L                                                                               | RC09XC                                                                              |
|                | <b>3232P09V-28</b> | △     | △ | 32                   | 32 | 170 | 32 | 32.5 | 28 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                | <b>4040S09V-38</b> | △     | △ | 40                   | 40 | 250 | 40 | 40.5 | 38 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M12V-19</b> | △     | △ | 25                   | 25 | 150 | 25 | 25.5 | 19 | RCGN1207 <input type="checkbox"/> <input type="checkbox"/><br>A140                | C4RH                                                                               | M6*20<br>(GB70-85)                                                                  | WH50L                                                                               | RC12XC                                                                              |
|                | <b>3232P12V-28</b> | △     | △ | 32                   | 32 | 170 | 32 | 32.5 | 28 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                | <b>4040S12V-38</b> | △     | △ | 40                   | 40 | 250 | 40 | 40.5 | 38 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| <b>CRDPR/L</b> | <b>2525M09V-19</b> | △     | △ | 25                   | 25 | 150 | 25 | 25.5 | 19 | RPGN0907 <input type="checkbox"/> <input type="checkbox"/><br>A140                | C3RH                                                                               | M5*16<br>(GB70-85)                                                                  | WH40L                                                                               | RP09XC                                                                              |
|                | <b>3232P09V-28</b> | △     | △ | 32                   | 32 | 170 | 32 | 32.5 | 28 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                | <b>4040S09V-38</b> | △     | △ | 40                   | 40 | 250 | 40 | 40.5 | 38 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                | <b>2525M12V-19</b> | △     | △ | 25                   | 25 | 150 | 25 | 25.5 | 19 | RPGN1207 <input type="checkbox"/> <input type="checkbox"/><br>A140                | C4RH                                                                               | M6*20<br>(GB70-85)                                                                  | WH50L                                                                               | RP12XC                                                                              |
|                | <b>3232P12V-28</b> | △     | △ | 32                   | 32 | 170 | 32 | 32.5 | 28 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|                | <b>4040S12V-38</b> | △     | △ | 40                   | 40 | 250 | 40 | 40.5 | 38 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |

▲Stock available    △Make-to-order