

# INSERTS TABLE

## GENERAL TURNING INSERTS

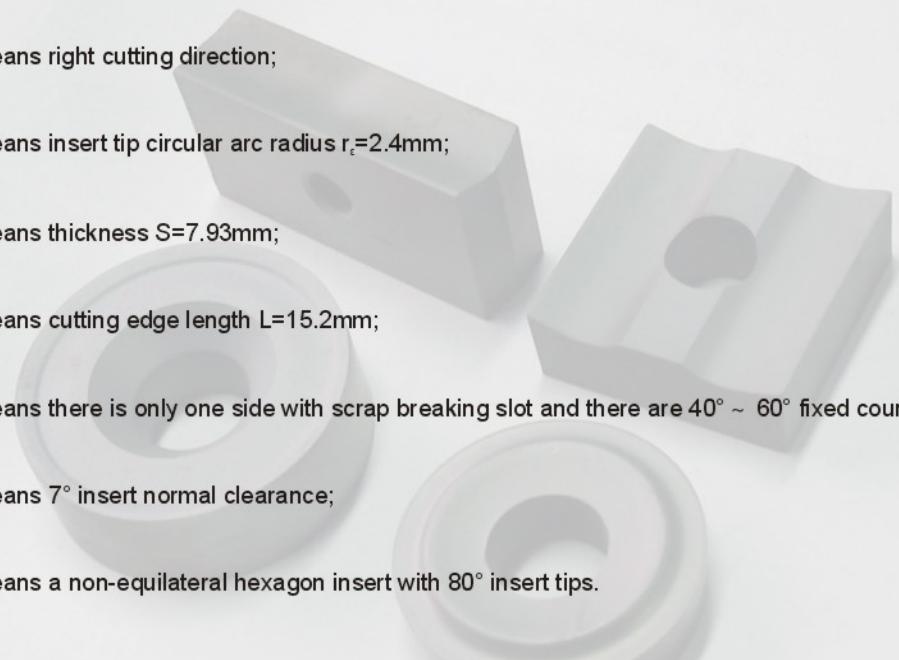
| Turning inserts   |  |  |   |   |  |  |  |
|---|--|--|---|---|--|--|--|
| <b>TNN</b><br>     | <b>TNA</b><br>        | <b>TNU</b><br>        | <b>SNN</b><br>     | <b>SNA</b><br>     | <b>SNM-M</b><br>    | <b>SNM-M</b><br>    | <b>SNM-V</b><br>      |
| P.6   | P.6  | P.7  | P.7   | P.8   | P.8  | P.9  | P.9  |
| <b>SNM-V</b><br>   | <b>SNM-ZR61</b><br>   | <b>SNM-H</b><br>      | <b>SNM-J</b><br>   | <b>SNM-A</b><br>   | <b>SNC</b><br>      | <b>SNC</b><br>      | <b>ANM-H9</b><br>     |
| P.10  | P.10   | P.11   | P.11  | P.12  | P.12   | P.13   | P.13   |
| <b>BNM-H</b><br>   | <b>CNM-H10</b><br>    | <b>ANM-H</b><br>      | <b>WCT-Y</b><br>   | <b>WNG-VX</b><br>  | <b>LNN</b><br>      | <b>LNW</b><br>      | <b>BNN</b><br>        |
| P.14  | P.14   | P.15   | P.15  | P.16  | P.16   | P.17   | P.17   |
| Vertical fixed turning insert   |  |  |   |   |  |  |  |
| <b>LNR-H</b><br> | <b>ANR-H</b><br>    | <b>LNF-H</b><br>    | <b>LNM-H</b><br> | <b>LNG-H</b><br> | <b>BNM-H</b><br>  | <b>BNM-H</b><br>  | <b>LNC~DCEL</b><br> |
| P.18  | P.18   | P.19   | P.19  | P.20  | P.20   | P.21   | P.21   |
| LNC~DCER LNC~DCER   |  |  |   |   |  |  |  |
|                  |                     |  |   |   |  |  |  |
| P.22  | P.22   |  |   |   |  |  |  |
| Peeling inserts   |  |  |   |   |  |  |  |
| <b>RNM-V</b><br> | <b>RCM-V</b><br>    | <b>RCX-ZR51</b><br> | <b>ROM-V</b><br> | <b>RCH-V</b><br> | <b>LNC-HR</b><br> | <b>LNC-VR</b><br> |  |
| P.23  | P.23   | P.24   | P.24  | P.25  | P.25   | P.25   |  |
| Parting inserts   |  |  |   |   |  |  |  |
| <b>QC</b><br>    | <b>QC</b><br>       | <b>QC</b><br>       |   |   |  |  |  |
| P.26  | P.26   | P.26   |   |   |  |  |  |
| Railwery Wheel re-turning inserts   |  |  |   |   |  |  |  |
| <b>SNG-A</b><br> | <b>SNG-ZR51</b><br> | <b>SNG-U</b><br>    |   |   |  |  |  |
| P.27  | P.27   | P.27   |   |   |  |  |  |

# MODEL DESIGNATION

Code of model designation of cemented carbide insert blank for heavy load tool follows prescription in GB/T 2076, excluding fineness class.

Sample 1:

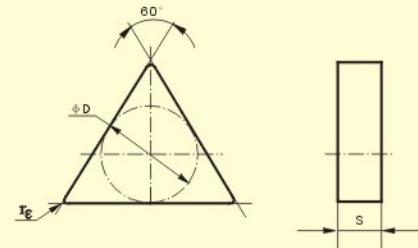
|          |          |          |           |           |           |          |   |           |
|----------|----------|----------|-----------|-----------|-----------|----------|---|-----------|
| <b>W</b> | <b>C</b> | <b>T</b> | <b>15</b> | <b>07</b> | <b>24</b> | <b>R</b> | - | <b>Y8</b> |
| 1        | 2        | 3        | 4         | 5         | 6         | 7        |   | 8         |

- 
- 1、 means Y-type scrap breaking slot and 8mm slot width;
  - 2、 means right cutting direction;
  - 3、 means insert tip circular arc radius  $r_c=2.4\text{mm}$ ;
  - 4、 means thickness S=7.93mm;
  - 5、 means cutting edge length L=15.2mm;
  - 6、 means there is only one side with scrap breaking slot and there are  $40^\circ \sim 60^\circ$  fixed counter bores;
  - 7、 means  $7^\circ$  insert normal clearance;
  - 8、 means a non-equilateral hexagon insert with  $80^\circ$  insert tips.

This brochure introduces cemented carbide high load insert blank series. Basic product information and relate data are provided for your optimal option.

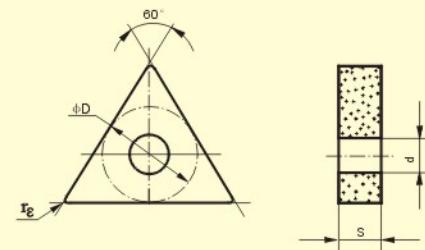
# TURNING INSRETS

## TNN

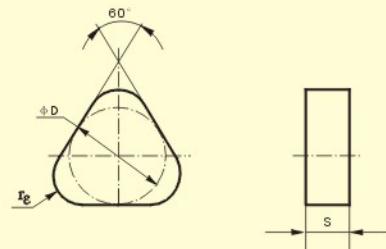


| Type      | Dimension (mm) |       |     | Basic grades |     |      |      |      |       |     |     |       |       |       |       |       |        |   |        |
|-----------|----------------|-------|-----|--------------|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|---|--------|
|           | $r_e$          | P     | M   | K            | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |   |        |
| D         | S              | $r_e$ |     |              |     |      |      |      |       |     |     |       |       |       |       |       |        |   | ZK20UF |
| TNN270612 | 15.875         | 6.35  | 1.2 |              | ○   |      |      |      |       |     |     |       |       |       |       |       |        | ○ | ○      |
| TNN330724 | 19.05          | 7.93  | 2.4 |              | ○   |      |      |      |       |     |     |       |       |       |       |       |        | ○ | ○      |

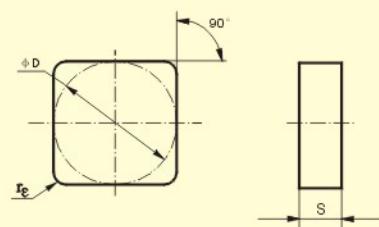
## TNA



| Type      | Dimension (mm) |      |       |     | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |   |        |
|-----------|----------------|------|-------|-----|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|---|--------|
|           | $r_e$          | P    | M     | K   | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |   |        |
| D         | S              | d    | $r_e$ |     |              |      |      |      |       |     |     |       |       |       |       |       |        |   | ZK20UF |
| TNA270612 | 15.875         | 6.35 | 6.35  | 1.2 |              | ○    |      |      |       |     |     |       |       |       |       |       |        | ○ |        |

**TNU**

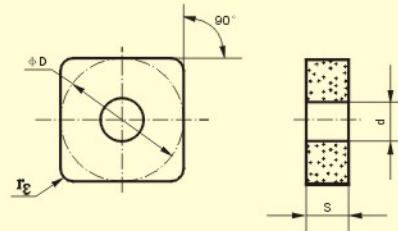
| Type             | Dimension (mm) |      |       | Basic grades |      |      |      |       |     |     |       |       |       |       |     |       |        |        |        |
|------------------|----------------|------|-------|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-----|-------|--------|--------|--------|
|                  | D              | S    | $r_e$ | P            | M    | K    | P    | M     | K   |     |       |       |       |       |     |       |        |        |        |
| <b>TNU270635</b> | 16.30          | 6.70 | 3.5   | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | ○ ○ | YG546 | ZK10UF | ZK20UF | ZK30UF |

**SNN**

| Type             | Dimension (mm) |      |       | Basic grades |   |      |      |       |     |     |       |       |       |       |     |       |        |        |        |
|------------------|----------------|------|-------|--------------|---|------|------|-------|-----|-----|-------|-------|-------|-------|-----|-------|--------|--------|--------|
|                  | D              | S    | $r_e$ | P            | M | K    | P    | M     | K   |     |       |       |       |       |     |       |        |        |        |
| <b>SNN250724</b> | 25.40          | 7.93 | 2.4   | ○            | ○ | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | ○ ○ | YG546 | ZK10UF | ZK20UF | ZK30UF |

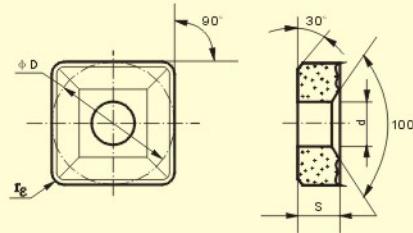
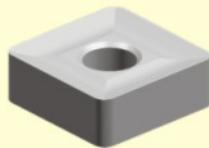
# TURNING INSRETS

## SNA

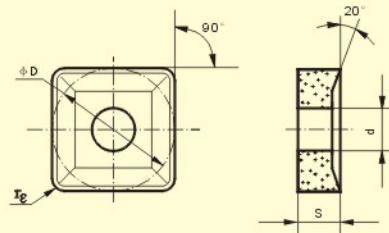
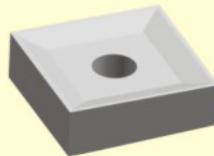


| Type             | Dimension (mm) |      |       |                | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |        |  |
|------------------|----------------|------|-------|----------------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|--|
|                  | D              | S    | d     | r <sub>e</sub> | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |  |
| <b>SNA250924</b> | 25.40          | 9.52 | 9.12  | 2.4            |              | ○ |   |     |      |      |      |       |     |     |       |       |       |       |       | ○      |        |        |  |
| <b>SNA300932</b> | 30.16          | 9.52 | 10.31 | 3.2            |              | ○ |   |     |      |      |      |       |     |     |       |       |       |       |       | ○      |        |        |  |

| Type                | Dimension (mm) |      |      |                | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |        |  |
|---------------------|----------------|------|------|----------------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|--|
|                     | D              | S    | d    | r <sub>e</sub> | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |  |
| <b>SNM250724-M7</b> | 25.40          | 7.93 | 9.12 | 2.4            |              | ○ |   |     |      |      |      |       |     |     |       |       |       |       | ○     |        |        |        |  |
| <b>SNM250724-M3</b> | 25.40          | 7.93 | 9.12 | 2.4            |              | ○ |   |     |      |      |      |       |     |     |       |       |       |       | ○     |        |        |        |  |
| <b>SNM300932-M9</b> | 30.16          | 9.52 | 9.12 | 3.2            |              | ○ |   |     |      |      |      |       |     |     |       |       |       |       | ○     |        |        |        |  |

**SNM-M**

| Type                | Remarks         | Dimension (mm) |      |     |                | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |
|---------------------|-----------------|----------------|------|-----|----------------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|                     |                 | D              | S    | d   | r <sub>e</sub> | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| <b>SNM250924-M6</b> | <b>ZX-07003</b> | 25.40          | 9.52 | 9.2 | 2.4            | ○            |   |   |     |      |      |      |       |     |     |       |       |       |       | ○     |        |        |

**SNM-V**

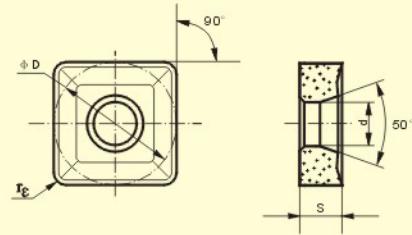
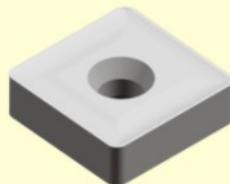
| Type                | Dimension (mm) |       |       |                | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |        |
|---------------------|----------------|-------|-------|----------------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|
|                     | D              | S     | d     | r <sub>e</sub> | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |
| <b>SNM250724-V8</b> | 25.40          | 7.93  | 9.12  | 2.4            | ○            |   |   |     |      |      |      |       |     |     |       | ○     |       |       |       | ○      |        |        |
| <b>SNM361132-V8</b> | 36.51          | 11.91 | 10.31 | 3.2            | ○            |   |   |     |      |      |      |       |     |     |       | ○     |       |       |       | ○      |        |        |

注：订货时，请按备注栏中型号订货。如备注栏空缺，则按标准型号订货（下同）。

Note: When intent, please refer models in the Remarks in the brochure. Standard model is referred if remark is blank (Same in the following).

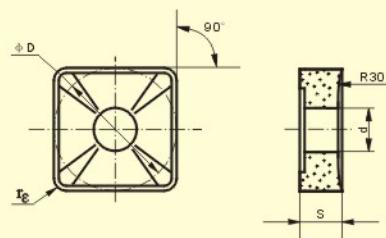
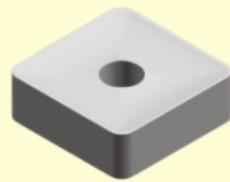
## TURNING INSRETS

### SNM-V

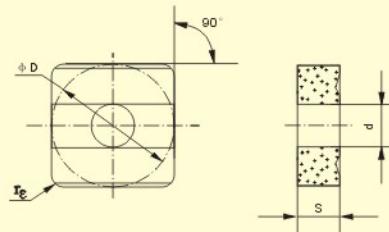
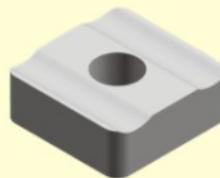


| Type         | Remarks  | Dimension (mm) |      |     |                | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |   |
|--------------|----------|----------------|------|-----|----------------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|---|
|              |          | D              | S    | d   | r <sub>e</sub> | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ○ |
| SNM310924-V8 | ZX-07004 | 31.80          | 9.52 | 9.2 | 2.4            | ○            |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |   |

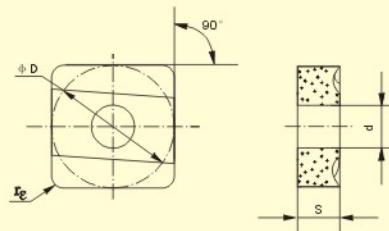
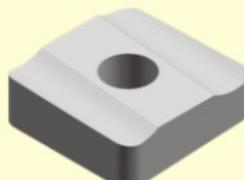
### SNM-ZR61



| Type           | Remarks  | Dimension (mm) |      |      |                | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |   |
|----------------|----------|----------------|------|------|----------------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|---|
|                |          | D              | S    | d    | r <sub>e</sub> | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ○ |
| SNM361235-ZR61 | ZX-88001 | 36.0           | 12.0 | 10.0 | 3.5            | ○            |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |   |

**SNM-H**

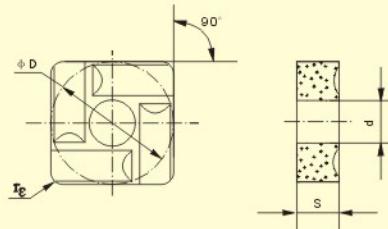
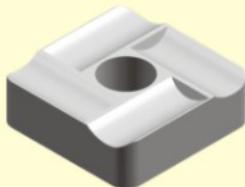
| Type                 | Remarks  | Dimension (mm) |       |       |       | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |
|----------------------|----------|----------------|-------|-------|-------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|                      |          | D              | S     | d     | $r_e$ | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| <b>SNM220724-H8</b>  |          | 22.225         | 7.93  | 7.93  | 2.4   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     |       |        |        |
| <b>SNM250930-H10</b> | ZX-08026 | 25.00          | 9.00  | 9.00  | 3.0   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     |       |        |        |
| <b>SNM251010-H10</b> | ZX-08027 | 25.00          | 10.10 | 9.00  | 1.0   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     |       |        |        |
| <b>SNM250924-H10</b> |          | 25.40          | 9.52  | 9.12  | 2.4   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     |       |        |        |
| <b>SNM250910-H10</b> | ZX-06077 | 25.70          | 9.60  | 9.00  | 1.0   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     |       |        |        |
| <b>SNM301132-H11</b> |          | 30.16          | 11.91 | 10.31 | 3.2   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     |       |        |        |

**SNM-J**

| Type                 | Dimension (mm) |       |       |       | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |        |
|----------------------|----------------|-------|-------|-------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|
|                      | D              | S     | d     | $r_e$ | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |
| <b>SNM220724R-J8</b> | 22.225         | 7.93  | 7.93  | 2.4   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     | ○     | ○      | ○      |        |
| <b>SNM220724L-J8</b> | 22.225         | 7.93  | 7.93  | 2.4   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     | ○     | ○      | ○      |        |
| <b>SNM301132R-J8</b> | 30.16          | 11.91 | 10.31 | 3.2   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     | ○     | ○      | ○      |        |
| <b>SNM301132L-J8</b> | 30.16          | 11.91 | 10.31 | 3.2   | ○            |   |   |     |      |      |      | ○     | ○   |     | ○     | ○     | ○     | ○     | ○     | ○      | ○      |        |

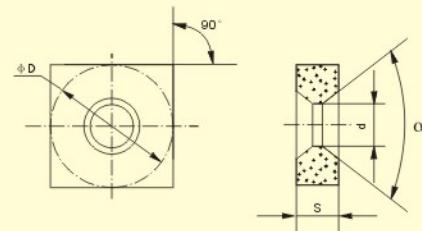
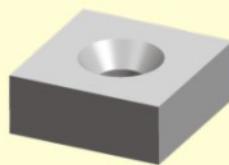
## TURNING INSRETS

### SNM-A

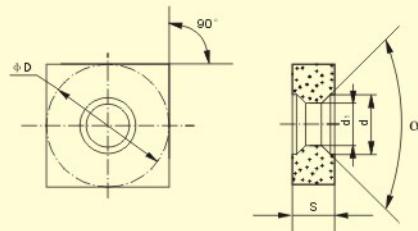
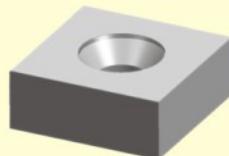


| Type                 | Remarks  | Dimension (mm) |      |       |                | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |
|----------------------|----------|----------------|------|-------|----------------|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|
|                      |          | D              | S    | d     | r <sub>ε</sub> | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |
| <b>SNM250924-A10</b> |          | 25.40          | 9.52 | 9.12  | 2.4            |              |      |      | ○    |       |     |     | ○     |       |       | ○     |       |        |
| <b>SNM301010-A7</b>  | ZX-81002 | 30.0           | 10.0 | 10.0  | 1.0            |              |      |      | ○    |       |     |     | ○     |       |       | ○     |       |        |
| <b>SNM300932-A10</b> |          | 30.16          | 9.52 | 10.31 | 3.2            |              |      |      | ○    |       |     |     | ○     |       |       | ○     |       |        |

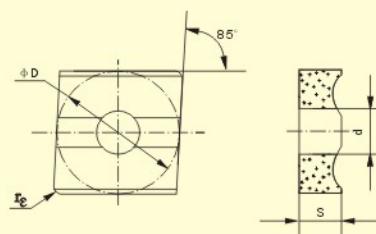
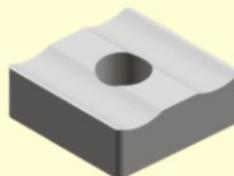
### SNC



| Type             | Remarks  | Dimension (mm) |      |      |     | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |
|------------------|----------|----------------|------|------|-----|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|
|                  |          | D              | S    | d    | α   | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |
| <b>SNC190600</b> | ZX-91022 | 19.05          | 6.35 | 7.93 | 80° |              | ○    |      | ○    | ○     |     |     | ○     |       |       |       |       |        |
| <b>SNC450800</b> | ZX-06028 | 45.00          | 8.00 | 6.60 | 90° |              | ○    |      | ○    | ○     |     |     | ○     |       |       |       |       |        |

**SNC**

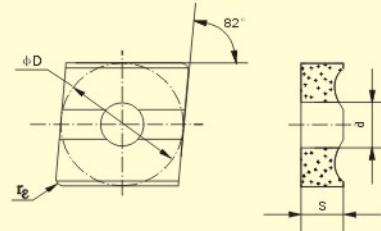
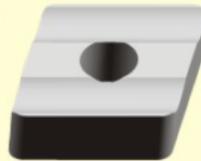
| Type             | Remarks         | Dimension (mm) |      |                |      |     | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |
|------------------|-----------------|----------------|------|----------------|------|-----|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|                  |                 | D              | S    | d <sub>1</sub> | d    | α   | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| <b>SNC200600</b> | <b>ZX-01065</b> | 20.60          | 6.90 | 6.90           | 6.40 | 70° | ○            |      |      | ○    | ○     | ○   |     |       |       |       |       |       |        |        |

**ANM-H9**

| Type                | Dimension (mm) |      |      |                | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |        |
|---------------------|----------------|------|------|----------------|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|
|                     | D              | S    | d    | r <sub>e</sub> | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |
| <b>ANM250912-H9</b> | 25.40          | 9.52 | 9.12 | 1.2            | ○            |      |      |      |       |     |     | ○     | ○     |       |       |       |        |        |        |
| <b>ANM250920-H9</b> | 25.40          | 9.52 | 9.12 | 2.0            | ○            |      |      |      |       |     |     | ○     | ○     | ○     | ○     |       |        |        |        |

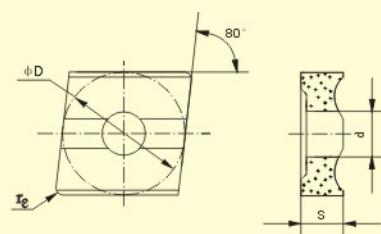
## TURNING INSRETS

### BNM-H

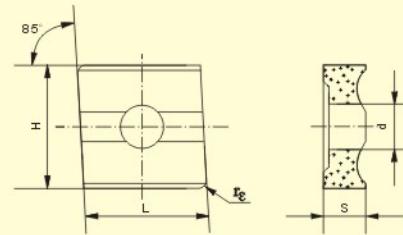
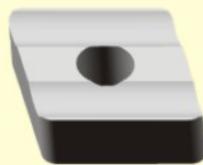


| Type                 | Dimension (mm) |      |      |     | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |
|----------------------|----------------|------|------|-----|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|
|                      |                |      |      |     | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |
| <b>BNM250924-H10</b> | 25.40          | 9.52 | 9.12 | 2.4 | ○            |   |   |     |      |      |      |       | ○   |     |       |       |       |       |       |        |

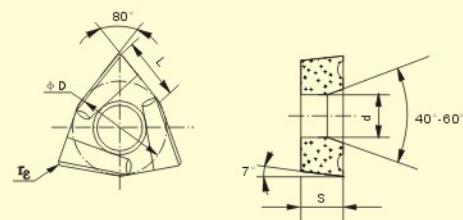
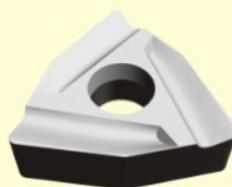
### CNM-H10



| Type                  | Remarks         | Dimension (mm) |      |     |     | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |
|-----------------------|-----------------|----------------|------|-----|-----|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|
|                       |                 |                |      |     |     | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 |
| <b>CNM250910R-H10</b> | <b>ZX-06078</b> | 25.70          | 9.60 | 9.0 | 1.0 | ○            |   |   |     |      |      |      |       | ○   |     |       |       |       |       |       |
| <b>CNM250910L-H10</b> | <b>ZX-06076</b> | 25.70          | 9.60 | 9.0 | 1.0 | ○            |   |   |     |      |      |      |       | ○   |     |       |       |       |       |       |

**ANM-H**

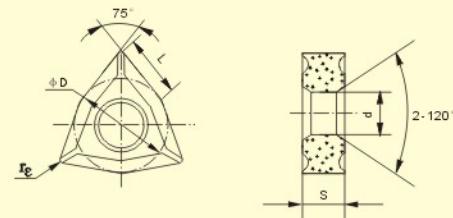
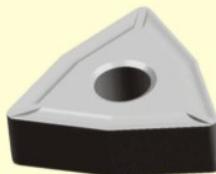
| Type         | Remarks  | Dimension (mm) |       |      |     |                 | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |
|--------------|----------|----------------|-------|------|-----|-----------------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|              |          | H              | L     | S    | d   | $r_\varepsilon$ | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| ANM220820-H7 | ZX-08045 | 22.10          | 23.00 | 8.50 | 7.2 | 2.0             | ○            |   |   |     |      |      |      |       | ○   |     |       |       | ○     |       |       |        |        |

**WCT-Y**

| Type          | Dimension (mm) |        |      |      |                 | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |
|---------------|----------------|--------|------|------|-----------------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|               | L              | D      | S    | d    | $r_\varepsilon$ | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| WCT150724R-Y8 | 15.2           | 22.225 | 7.93 | 7.93 | 2.4             | ○            |   |   |     |      |      |      |       | ○   |     |       |       |       | ○     |       |        |        |
| WCT150724L-Y8 | 15.2           | 22.225 | 7.93 | 7.93 | 2.4             | ○            |   |   |     |      |      |      |       | ○   |     |       |       |       | ○     |       |        |        |

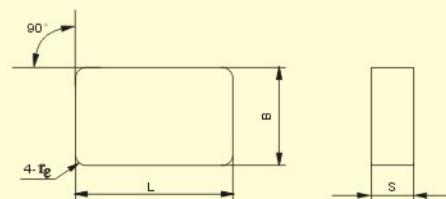
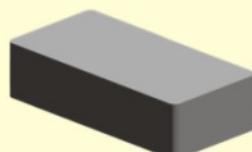
## TURNING INSRETS

### WNG-VX

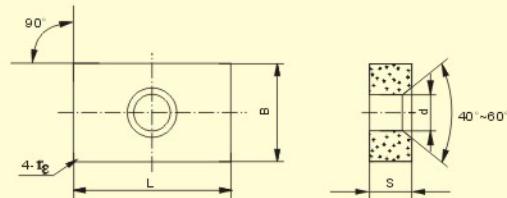
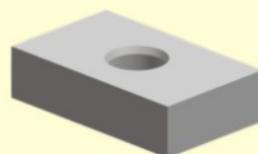


| Type                   | Remarks | Dimension (mm) |       |      |     |       | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |
|------------------------|---------|----------------|-------|------|-----|-------|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|                        |         | L              | D     | S    | d   | $r_e$ | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| WNG150915-VXWNMX-89004 |         | 15.95          | 22.23 | 10.0 | 8.1 | 1.5   |              |      | ○    | ○    |       |     |     |       |       |       |       |       |        |        |

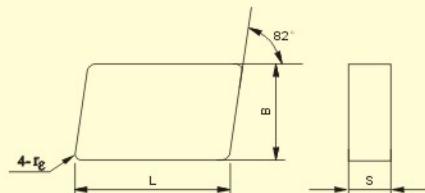
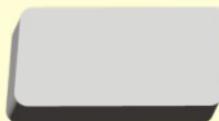
### LNN



| Type      | Remarks  | Dimension (mm) |       |      |       | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |
|-----------|----------|----------------|-------|------|-------|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|           |          | L              | B     | S    | $r_e$ | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| LNN250608 |          | 25.40          | 12.70 | 6.35 | 0.8   |              | ○    | ○    |      |       |     |     |       |       |       | ○     |       |        |        |
| LNN250708 |          | 25.40          | 12.70 | 7.93 | 0.8   |              | ○    | ○    |      |       |     |     |       |       |       | ○     |       |        |        |
| LNN250616 |          | 25.40          | 15.87 | 6.35 | 1.6   |              | ○    | ○    |      |       |     |     |       |       |       | ○     |       |        |        |
| LNN250916 |          | 25.40          | 22.22 | 9.52 | 1.6   |              | ○    | ○    |      |       |     |     |       |       |       | ○     |       |        |        |
| LNN300720 | AX-99004 | 30.10          | 16.50 | 7.95 | 2.0   |              | ○    | ○    |      |       |     |     |       |       |       | ○     |       |        |        |

**LNW**

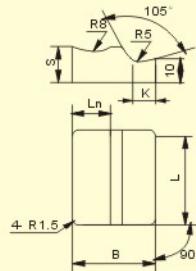
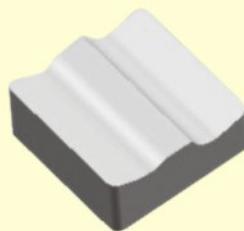
| Type             | Remarks         | Dimension (mm) |      |      |      | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |
|------------------|-----------------|----------------|------|------|------|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|                  |                 | L              | B    | S    | d    | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| <b>LNW160400</b> | <b>ZX-90022</b> | 16.28          | 9.88 | 4.15 | 4.30 |              |      |      | ○    | ○     |     |     |       |       |       |       |       |        |        |

**BNN**

| Type             | Dimension (mm) |      |      |     | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |
|------------------|----------------|------|------|-----|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|                  | D              | S    | d    | α   | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| <b>BNN250616</b> | 25.40          | 12.7 | 6.35 | 1.6 |              | ○    |      |      |       |     |     |       |       |       | ○     |       |        |        |
| <b>BNN250716</b> | 25.40          | 12.7 | 7.93 | 1.6 |              | ○    |      |      |       |     |     |       |       |       | ○     |       |        |        |
| <b>BNN330316</b> | 33.33          | 8.3  | 3.57 | 1.6 |              | ○    |      |      |       |     |     |       |       |       | ○     |       |        |        |
| <b>BNN390316</b> | 39.68          | 8.3  | 3.57 | 1.6 |              | ○    |      |      |       |     |     |       |       |       | ○     |       |        |        |

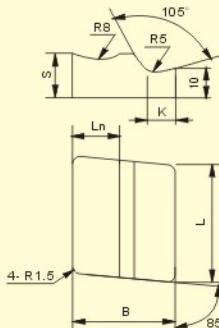
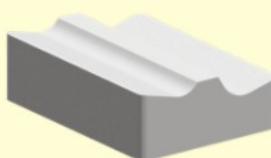
## VERTICAL FIXED TURNING INSERT

### LNR-H



| Type          | Remarks  | Dimension (mm) |      |      |    |    | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |
|---------------|----------|----------------|------|------|----|----|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|
|               |          | L              | B    | S    | K  | Ln | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |
| LNR241200-H12 | ZX-91010 | 24.8           | 29.7 | 12.9 | 10 | 12 | ○            | ○    | ○    | ○    |       |     |     |       | ○     | ○     |       |       |        |
| LNR291200-H12 | ZX-91011 | 29.8           | 29.7 | 12.9 | 10 | 12 | ○            | ○    | ○    | ○    |       |     |     |       | ○     | ○     |       |       |        |
| LNR341200-H12 | ZX-91012 | 34.8           | 29.7 | 12.9 | 10 | 12 | ○            | ○    | ○    | ○    |       |     |     |       | ○     | ○     |       |       |        |
| LNR391200-H12 | ZX-91013 | 39.8           | 29.7 | 12.9 | 10 | 12 | ○            | ○    | ○    | ○    |       |     |     |       | ○     | ○     |       |       |        |

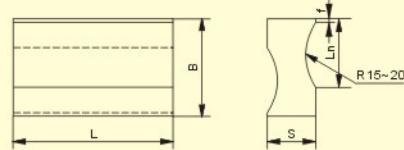
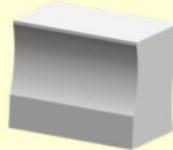
### ANR-H



| Type          | Remarks  | Dimension (mm) |      |      |    |    | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |
|---------------|----------|----------------|------|------|----|----|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|
|               |          | L              | B    | S    | K  | Ln | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |
| ANR241200-H12 | ZX-91006 | 24.8           | 29.7 | 12.9 | 10 | 12 | ○            | ○    | ○    | ○    |       |     |     |       | ○     | ○     |       |       |        |
| ANR291200-H12 | ZX-91007 | 29.8           | 29.7 | 12.9 | 10 | 12 | ○            | ○    | ○    | ○    |       |     |     |       | ○     | ○     |       |       |        |
| ANR341200-H12 | ZX-91008 | 34.8           | 29.7 | 12.9 | 10 | 12 | ○            | ○    | ○    | ○    |       |     |     |       | ○     | ○     |       |       |        |
| ANR391200-H12 | ZX-91009 | 39.8           | 29.7 | 12.9 | 10 | 12 | ○            | ○    | ○    | ○    |       |     |     |       | ○     | ○     |       |       |        |

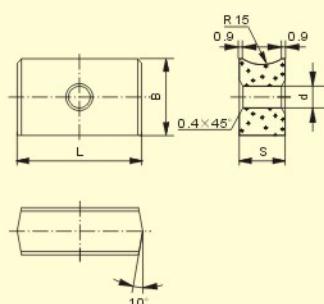
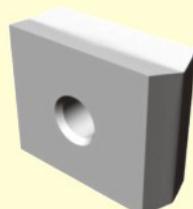
# VERTICAL FIXED TURNING INSERT

## LNF-H



| Type          | Dimension (mm) |      |      |    |     | Basic grades |      |      |      |       |     |      |       |       |       |       |       |        |        |
|---------------|----------------|------|------|----|-----|--------------|------|------|------|-------|-----|------|-------|-------|-------|-------|-------|--------|--------|
|               | L              | B    | S    | Ln | f   | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YWN2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| LNF201200-H11 | 20.0           | 16.0 | 12.7 | 11 | 0.5 | ○            | ○    |      |      |       |     | ○    |       |       | ○     | ○     |       |        |        |
| LNF301400-H15 | 30.0           | 20.0 | 14.2 | 15 | 0.6 | ○            | ○    |      |      |       |     | ○    |       |       | ○     | ○     |       |        |        |
| LNF401400-H15 | 40.0           | 20.0 | 14.2 | 15 | 0.6 | ○            | ○    |      |      |       |     | ○    |       |       | ○     | ○     |       |        |        |
| LNF601600-H16 | 60.0           | 25.0 | 16.2 | 16 | 0.7 | ○            | ○    |      |      |       |     | ○    |       |       | ○     | ○     |       |        |        |

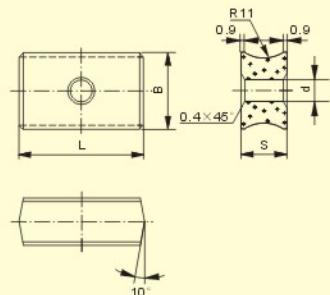
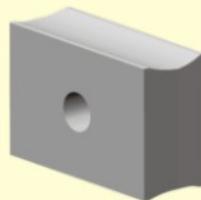
## LNM-H



| Type          | Remarks  | Dimension (mm) |      |      |     | Basic grades |      |      |      |       |     |      |       |       |       |       |       |        |
|---------------|----------|----------------|------|------|-----|--------------|------|------|------|-------|-----|------|-------|-------|-------|-------|-------|--------|
|               |          | L              | B    | S    | d   | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YWN2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |
| LNM291200-H10 | ZX-81013 | 29.4           | 22.0 | 12.5 | 6.5 |              | ○    |      |      |       |     |      |       |       | ○     | ○     |       |        |
| LNM341200-H10 | ZX-81012 | 34.4           | 22.0 | 12.5 | 6.5 |              | ○    |      |      |       |     |      |       |       | ○     | ○     |       |        |
| LNM421200-H10 | ZX-81011 | 42.4           | 22.0 | 12.5 | 6.5 |              | ○    |      |      |       |     |      |       |       | ○     | ○     |       |        |

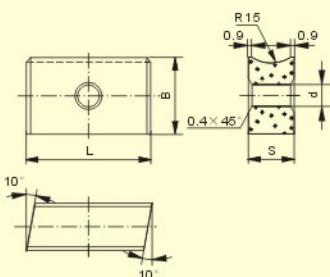
## VERTICAL FIXED TURNING INSERT

### LNG-H



| Type                 | Dimension (mm) |      |      |     | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |        |  |
|----------------------|----------------|------|------|-----|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|--|
|                      | L              | B    | S    | d   | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |  |
| <b>LNG291200-H12</b> | 29.4           | 22.0 | 12.0 | 6.0 | ○            |   |   |     |      |      |      |       |     |     |       |       | ○     | ○     |       |        |        |        |  |
| <b>LNG451200-H12</b> | 45.4           | 22.0 | 12.0 | 6.0 | ○            |   |   |     |      |      |      |       |     |     |       |       | ○     | ○     |       |        |        |        |  |

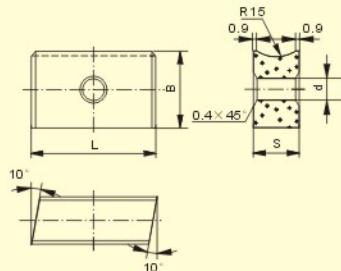
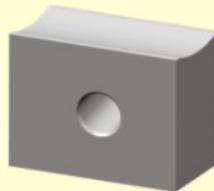
### BNM-H



| Type                  | Remarks         | Dimension (mm) |      |      |     | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |        |
|-----------------------|-----------------|----------------|------|------|-----|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|
|                       |                 | L              | B    | S    | d   | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |
| <b>BNM291200R-H11</b> | <b>ZX-81007</b> | 29.4           | 22.0 | 12.5 | 6.5 |              |   |   |     |      |      |      |       |     |     |       | ○     | ○     |       |       |        |        |        |
| <b>BNM341200R-H11</b> | <b>ZX-81006</b> | 34.4           | 22.0 | 12.5 | 6.5 |              |   |   |     |      |      |      |       |     |     |       | ○     | ○     |       |       |        |        |        |
| <b>BNM421200R-H11</b> | <b>ZX-81005</b> | 42.4           | 22.0 | 12.5 | 6.5 |              |   |   |     |      |      |      |       |     |     |       | ○     | ○     |       |       |        |        |        |

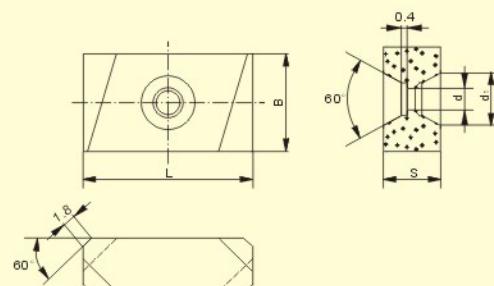
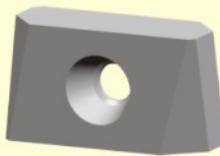
# VERTICAL FIXED TURNING INSERT

## **BNM-H**



| Type           | Remarks  | Dimension (mm) |      |      |     | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |
|----------------|----------|----------------|------|------|-----|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|                |          | L              | B    | S    | d   | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| BNM291200L-H12 | ZX-81010 | 29.4           | 22.0 | 12.5 | 6.5 |              |      |      |      |       |     |     |       |       | ○     | ○     |       |        |        |
| BNM341200L-H12 | ZX-81009 | 34.4           | 22.0 | 12.5 | 6.5 |              |      |      |      |       |     |     |       |       | ○     | ○     |       |        |        |
| BNM421200L-H12 | ZX-81008 | 42.4           | 22.0 | 12.5 | 6.5 |              |      |      |      |       |     |     |       |       | ○     | ○     |       |        |        |

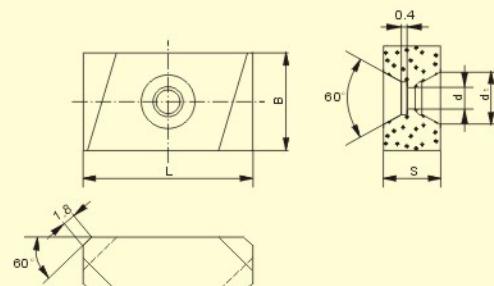
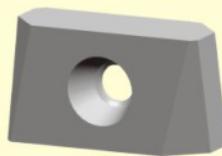
## **LNC~DCEL**



| Type        | Dimension (mm) |      |      |     |                | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |
|-------------|----------------|------|------|-----|----------------|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|             | L              | B    | S    | d   | d <sub>1</sub> | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| LNQ1906DCEL | 19.05          | 14.3 | 6.35 | 5.5 | 8.5            |              |      | ○    | ○    | ○     |     |     |       |       |       |       |       |        |        |
| LNQ2509DCEL | 25.40          | 14.3 | 9.52 | 5.5 | 8.5            |              |      | ○    | ○    | ○     |     |     |       |       |       |       |       | ○      |        |
| LNQ2809DCEL | 28.57          | 14.3 | 9.52 | 5.5 | 8.5            |              |      | ○    | ○    | ○     |     |     |       |       |       |       |       | ○      |        |

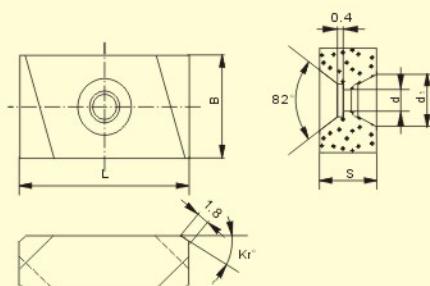
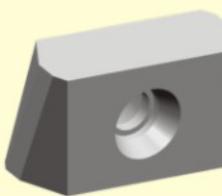
## VERTICAL FIXED TURNING INSERT

### LNC~DCEL

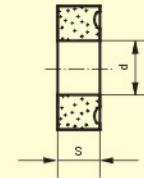
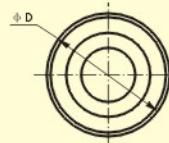


| Type        | Remarks  | Dimension (mm) |       |      |      |                | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |        |
|-------------|----------|----------------|-------|------|------|----------------|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|
|             |          | L              | B     | S    | d    | d <sub>1</sub> | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |
| LNQ2909DCEL | ZX-01040 | 29.10          | 14.80 | 9.90 | 5.41 | 8.78           |              |      | ○    | ○    | ○     |     |     |       |       |       |       | ○     |        |        |        |

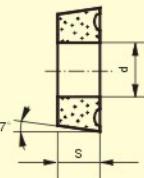
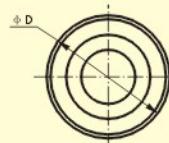
### LNC~DCER



| Type        | Remarks  | Dimension (mm) |       |       |      |                |     | Basic grades |      |      |      |       |     |     |       |       |       |       |       |        |        |        |
|-------------|----------|----------------|-------|-------|------|----------------|-----|--------------|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|
|             |          | L              | B     | S     | d    | d <sub>1</sub> | Kr° | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |
| LNC1906DCER |          | 19.05          | 14.5  | 6.35  | 5.8  | 8.5            | 60  |              | ○    | ○    | ○    |       |     |     |       |       |       | ○     | ○     |        |        |        |
| LNC2409DCER | ZX-01043 | 24.50          | 14.75 | 9.90  | 5.40 | 8.35           | 50  |              | ○    | ○    | ○    |       |     |     |       |       |       | ○     | ○     |        |        |        |
| LNC2809DCER |          | 28.57          | 14.28 | 9.52  | 5.8  | 8.5            | 60  |              | ○    | ○    | ○    |       |     |     |       |       |       | ○     | ○     |        |        |        |
| LNC2909DCER | ZX-01037 | 29.10          | 14.80 | 9.525 | 5.41 | 8.35           | 30  |              | ○    | ○    | ○    |       |     |     |       |       |       | ○     | ○     |        |        |        |
| LNC2910DCER | ZX-01042 | 29.10          | 16.45 | 9.90  | 5.40 | 8.35           | 36  |              | ○    | ○    | ○    |       |     |     |       |       |       | ○     | ○     |        |        |        |

**RNM-V**

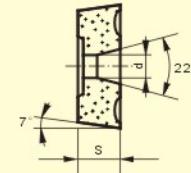
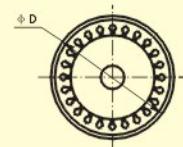
| Type         | Dimension (mm) |       |      | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |
|--------------|----------------|-------|------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|              | D              | S     | d    | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| RNM3812Mo-V7 | 38.0           | 12.70 | 12.6 |              | ○ | ○ |     |      |      |      | ○     |     |     |       | ○     |       |       |       |        |        |

**RCM-V**

| Type         | Dimension (mm) |      |      | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |
|--------------|----------------|------|------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|
|              | D              | S    | d    | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF |
| RCM200500-V3 | 20.0           | 5.56 | 6.5  |              | ○ | ○ |     |      |      |      | ○     |     |     |       | ○     |       |       |       |        |        |
| RCM280900-V4 | 28.0           | 9.52 | 10.6 |              | ○ | ○ |     |      |      |      | ○     |     |     |       | ○     |       |       |       |        |        |
| RCM300900-V3 | 30.0           | 9.52 | 12.6 |              | ○ | ○ |     |      |      |      | ○     |     |     |       | ○     |       |       |       |        |        |

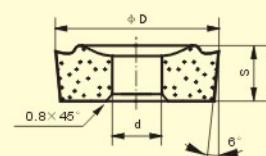
## PEELING INSERTS

### RCX-ZR51



| Type           | Remarks  | Dimension (mm) |       |      | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |
|----------------|----------|----------------|-------|------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|
|                |          | D              | S     | d    | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |
| RCX321000-ZR51 | ZX-01025 | 32.6           | 10.10 | 9.48 | ○            |   |   |     |      |      |      |       | ○   |     |       |       |       | ○     |       |        |

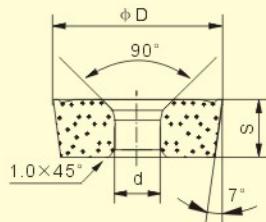
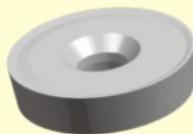
### ROM-V



| Type         | Remarks  | Dimension (mm) |      |      | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |        |  |
|--------------|----------|----------------|------|------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|--|
|              |          | D              | S    | d    | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |  |
| ROM271100-V3 | ZX-01035 | 28.6           | 11.5 | 10.0 | ○            |   |   |     |      |      |      |       | ○   |     |       |       | ○     | ○     | ○     | ○      |        |        |  |

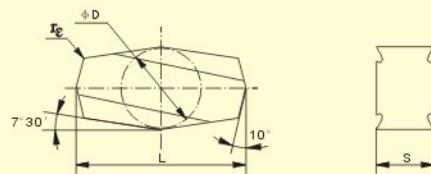
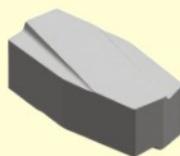
## PEELING INSERTS

### RCH-V



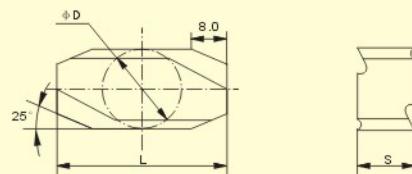
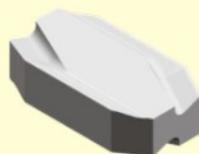
| Type         | Remarks  | Dimension (mm) |       |      | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |
|--------------|----------|----------------|-------|------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|
|              |          | D              | S     | d    | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF |
| RCH400900-V4 | ZX-03021 | 40.0           | 9.525 | 11.0 | ○            | ○ | ○ | ○   | ○    | ○    | ○    | ○     |     |     |       | ○     | ○     |       |       |        |

### LNC-HR



| Type         | Remarks | Dimension (mm) |      |      |                | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |        |
|--------------|---------|----------------|------|------|----------------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|
|              |         | L              | D    | S    | r <sub>e</sub> | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |
| LNC371812-HR | T91077  | 37.6           | 18.5 | 12.5 | 0.5            | ○            |   |   | ○   |      |      |      |       |     |     | ○     |       | ○     |       | ○     |        |        |        |

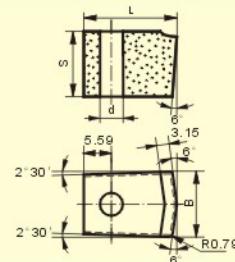
### LNC-VR



| Type         | Remarks  | Dimension (mm) |      |      | Basic grades |   |   |     |      |      |      |       |     |     |       |       |       |       |       |        |        |        |
|--------------|----------|----------------|------|------|--------------|---|---|-----|------|------|------|-------|-----|-----|-------|-------|-------|-------|-------|--------|--------|--------|
|              |          | L              | D    | S    | P            | M | K | YT5 | YT14 | ZP25 | ZP35 | YT798 | YW1 | YW2 | YT767 | YG813 | YG610 | YG535 | YG546 | ZK10UF | ZK20UF | ZK30UF |
| LNC412110-VR | AX-09002 | 41.0           | 21.0 | 10.5 | ○            |   |   | ○   |      |      |      |       |     |     | ○     |       | ○     | ○     | ○     |        |        |        |

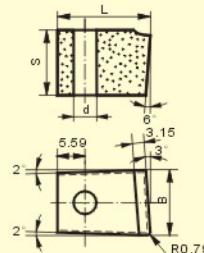
## PARTING INSERTS

**QC**



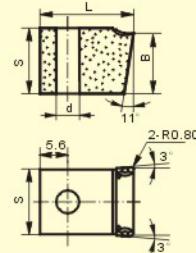
| Type     | Dimension (mm) |      |       |     | Basic grades  |                                |                                     |       |        |        |
|----------|----------------|------|-------|-----|---|--------------------------------|-------------------------------------|-------|--------|--------|
|          | L              | B    | S     | d   | P   | M                              | K                                   | YG546 | ZK10UF | ZK20UF |
| QC-07001 | 16.66          | 12.7 | 12.15 | 5.6 | YT5<br>YT14<br>ZP25<br>ZP35<br>YT798<br>YW1<br>YW2<br>YT767 | YG813<br>YG610<br>YG535<br>○ ○ | YG546<br>ZK10UF<br>ZK20UF<br>ZK30UF |       |        |        |

**QC**



| Type     | Dimension (mm) |      |      |     | Basic grades  |                                |                                     |       |        |        |
|----------|----------------|------|------|-----|---|--------------------------------|-------------------------------------|-------|--------|--------|
|          | L              | B    | S    | d   | P   | M                              | K                                   | YG546 | ZK10UF | ZK20UF |
| QC-07002 | 16.66          | 12.7 | 12.5 | 5.6 | YT5<br>YT14<br>ZP25<br>ZP35<br>YT798<br>YW1<br>YW2<br>YT767 | YG813<br>YG610<br>YG535<br>○ ○ | YG546<br>ZK10UF<br>ZK20UF<br>ZK30UF |       |        |        |

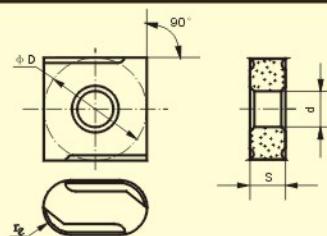
**QC**



| Type     | Dimension (mm) |      |      |     | Basic grades  |                                |                                     |       |        |        |
|----------|----------------|------|------|-----|---|--------------------------------|-------------------------------------|-------|--------|--------|
|          | L              | B    | S    | d   | P   | M                              | K                                   | YG546 | ZK10UF | ZK20UF |
| QC-07003 | 16.66          | 11.0 | 12.6 | 5.6 | YT5<br>YT14<br>ZP25<br>ZP35<br>YT798<br>YW1<br>YW2<br>YT767 | YG813<br>YG610<br>YG535<br>○ ○ | YG546<br>ZK10UF<br>ZK20UF<br>ZK30UF |       |        |        |

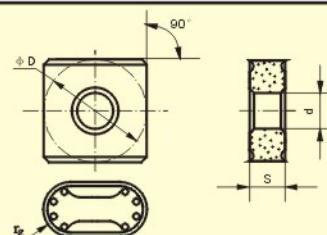
# RAILWERY WHEEL RE-TUMING INSERTS

## SNG-A



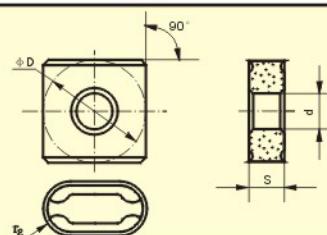
| Type         | Remarks   | Dimension (mm) |      |      |       | Basic grades |      |      |      |       |     |   |   |
|--------------|-----------|----------------|------|------|-------|--------------|------|------|------|-------|-----|---|---|
|              |           | D              | S    | d    | $r_e$ | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | M | K |
| SNG191910R-A | ZX-81014R | 19.05          | 10.0 | 7.20 | 4.0   | ○            |      |      |      |       | ○   | ○ | ○ |
| SNG191910L-A | ZX-81015L | 19.05          | 10.0 | 7.20 | 4.0   | ○            |      |      |      |       | ○   | ○ | ○ |

## SNG-ZR51



| Type           | Remarks | Dimension (mm) |      |      |       | Basic grades |      |      |      |       |     |   |   |
|----------------|---------|----------------|------|------|-------|--------------|------|------|------|-------|-----|---|---|
|                |         | D              | S    | d    | $r_e$ | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | M | K |
| SNG191910-ZR51 | ZX-9804 | 19.0           | 10.0 | 6.35 | 4.0   | ○            |      |      |      |       | ○   | ○ | ○ |

## SNG-U



| Type        | Remarks  | Dimension (mm) |      |      |       | Basic grades |      |      |      |       |     |   |   |
|-------------|----------|----------------|------|------|-------|--------------|------|------|------|-------|-----|---|---|
|             |          | D              | S    | d    | $r_e$ | YT5          | YT14 | ZP25 | ZP35 | YT798 | YW1 | M | K |
| SNG191910-U | ZX-03012 | 19.05          | 10.0 | 6.35 | 4.0   | ○            |      |      |      |       | ○   | ○ | ○ |

# SPECIFICATIONS

## Dimension tolerance and form deviation

The tolerances of diameter (D) of inscribed circle, length (L), width (B) and thickness (S) are Specified as below:

| Dimension<br>(mm)      |               | ≤12         | > 12 ~ 25   | > 25 ~ 40   | > 40        |
|------------------------|---------------|-------------|-------------|-------------|-------------|
| Allowable<br>Tolerance | Senior Level  | +0.3 ~ +0.7 | +0.4 ~ +0.9 | +0.4 ~ +1.1 | +0.5 ~ +1.2 |
|                        | General Level | +0.4 ~ +0.8 | +0.4 ~ +1.1 | +0.4 ~ +1.3 | +0.5 ~ +1.4 |

1. Allowable deviation of circular arc radius of insert blank should be  $\pm 0.2\text{mm}$ .

2. Allowable deviation of bore diameter of insert blank should be  $\pm 0.2\text{mm}$ .

3. Allowable deviation of any angle of insert blank should be  $\pm 45^\circ$ .

4. Tolerance of flatness of insert blank is specified as below:

| Dimension<br>(mm) |               | ≤18  | > 18 ~ 30 | > 30 |
|-------------------|---------------|------|-----------|------|
| Tolerance         | Senior Level  | 0.12 | 0.15      | 0.20 |
|                   | General Level | 0.15 | 0.20      | 0.25 |

note: Dimension permitted deviation and outline tolerance in the remarks should follow the requirement of the drawings.