

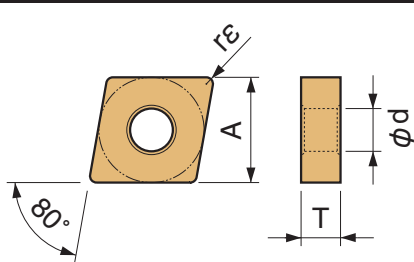
# Turning Indexable Inserts

(mm)

(mm)

## 80°Diamond • Negative with Hole

| Description | A     | T    | ød   | Description | A      | T    | ød   |
|-------------|-------|------|------|-------------|--------|------|------|
| CN_0904_    | 9.525 | 4.76 | 3.81 | CN_1606_    | 15.875 | 6.35 | 6.35 |
| CN_1204_    | 12.70 | 4.76 | 5.16 | CN_1906_    | 19.05  | 6.35 | 7.94 |



| P | M | K | N | S | H | Free-cutting steel | Carbon Steel and Alloy Steel | Stainless Steel | Gray Cast Iron | Nodular Cast Iron | Non-ferrous Metals | Heat-resistant alloy | Titanium Alloy | Hard Materials | Classification of usage   |
|---|---|---|---|---|---|--------------------|------------------------------|-----------------|----------------|-------------------|--------------------|----------------------|----------------|----------------|---|
| ○ |   |   |   |   |   |                    |                              |                 |                |                   |                    |                      |                |                | ✦: Interruption / 1st Choice<br>✧: Interruption / 2nd Choice<br>●: Light Interruption / 1st Choice<br>○: Light Interruption / 2nd Choice<br>●: Continuous / 1st Choice<br>○: Continuous / 2nd Choice<br>(In case hardness is under 45HRC) |

- B
- Negative
- C
- D
- R
- S
- T
- W
- Insert (Turning)

| Insert                                | Description                   | Dim. (mm)                                    | CVD Coated Carbide |        |      |            |        |        |                    |        |        |        |        |        |        | Carbide | Ref. Page for Toolholder | Applicable Chipbreaker Range |                    |       |        |        |        |      |                  |  |
|---------------------------------------|-------------------------------|--|--------------------|--------|------|------------|--------|--------|--------------------|--------|--------|--------|--------|--------|--------|---------|--------------------------|------------------------------|--------------------|-------|--------|--------|--------|------|------------------|--|
|                                       |                               |  | Cermet             |        |      | PVD Cermet |        |        | CVD Coated Carbide |        |        |        |        |        |        |         |                          |                              | PVD Coated Carbide |       |        |        |        |      |                  |  |
|                                       |                               |  | TN6010             | TN6020 | TN60 | PV7005     | PV7010 | PV7020 | CA5505             | CA5515 | CA5525 | CA5535 | CA6515 | CA6525 | CA4010 | CA4115  | CA4120                   | CA4505                       | CA4515             | PR930 | PR1005 | PR1025 | PR1125 | KW10 |                  |  |
| Non-ferrous Metals                    | Finishing-Medium / Sharp Edge | CNGG 120404 <sup>8</sup> / <sub>L</sub> -A3  | 0.4                |        |      |            |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      | D8<br>F42<br>F66 |  |
|                                       |                               | 120408 <sup>8</sup> / <sub>L</sub> -A3       | 0.8                |        |      |            |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |
|                                       | Medium-Roughing / Sharp Edge  | CNGG 120404AH                                | 0.4                |        |      |            |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |
|                                       | Medium-Roughing / Sharp Edge  | 120408AH                                     | 0.8                |        |      |            |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |
|                                       | Medium-Roughing / With Honing | CNMG 120404AH                                | 0.4                |        |      |            |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |
|                                       | Medium-Roughing / With Honing | 120408AH                                     | 0.8                |        |      |            |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |
| Finishing                             | Surface Roughness Oriented    | CNGG 090402 <sup>8</sup> / <sub>L</sub> -S   | 0.2                |        |      | ●          |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      | D8<br>F66        |  |
|                                       |                               | 090404 <sup>8</sup> / <sub>L</sub> -S        | 0.4                |        |      | ●          |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |
| 090408 <sup>8</sup> / <sub>L</sub> -S |                               | 0.8  |                    |        |      | ●          |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |
| Medium                                |                               | CNGG 090404 <sup>8</sup> / <sub>L</sub>      | 0.4                |        |      | ●          |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      | D8<br>F66        |  |
|                                       |                               | 120408 <sup>8</sup> / <sub>L</sub>           | 0.8                |        |      | ●          |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |
| Medium-Roughing                       | Low Cutting Force             | CNGG 120404 <sup>8</sup> / <sub>L</sub> -25R | 0.4                |        |      | ●          |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      | D8<br>F42<br>F66 |  |
|                                       |                               | 120408 <sup>8</sup> / <sub>L</sub> -25R      | 0.8                |        |      | ●          |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |
| Medium-Roughing                       |                               | CNGG 120404Z                                 | 0.4                |        |      | ●          |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      | D8<br>F42<br>F66 |  |
|                                       |                               | 120408Z                                      | 0.8                |        |      | ●          |        |        |                    |        |        |        |        |        |        |         |                          |                              |                    |       |        |        |        |      |                  |  |

For grades ( TN30 PV60 PR905 ) , See Page **B40**  
 ( PV30 PV90 PR915 )

Inserts are sold in 10 piece boxes.