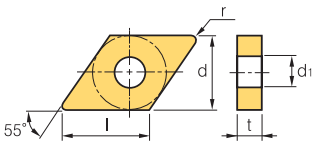
# DN○○

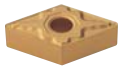
## Rhombic 55° Negative




| Dimensions (mm) | | | |
|---|---|---|---|
| Size | d | t | d1 |
| 11 | 9.525 | 3.18~4.76 | 3.81 |
| 15 | 12.7 | 4.76~6.35 | 5.16 |

| Workpiece | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | P | ● | ⊛ | ✱ | ● | ⊛ | ● | ⊛ | ⊛ | ✱ | ✱ | ● | ● | ⊛ | | ✱ | | | | | | | | |
| Stainless steel | M | | | | | | | | | ⊛ | ⊛ | | | ● | ⊛ | ✱ | ⊛ | ✱ | | ● | ⊛ | ⊛ | | |
| Cast iron | K | ● | ⊛ | ✱ | ● | ⊛ | ⊛ | | | | ⊛ | ⊛ | ⊛ | | | | | | | | | | ● | ⊛ |
| Non-ferrous metal | N | | | | | | | | | | | | | | | | | | | | | | ● | ⊛ |
| Heat resistant alloy, Titanium alloy | S | | | | | | | | | | ● | | | | ● | ● | ⊛ | ✱ | ● | ● | ⊛ | | ● | ⊛ |
| Hardened steel | H | | | | | | | | | | | | | | | | | | | ⊛ | ✱ | | ● | ⊛ |

Machining types
- ● Continuous cutting
- ⊛ General cutting
- ✱ Interrupted cutting

| Inserts | | Designation | | Cermet | | | Coated | | Coated | | | | | | | | | | | | | | Uncoated | | Cutting Condition | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | CN1500 | CN2000 | CN2500 | CC1500 | CC2500 | NC3215 | NC3120 | NC3225 | NC3030 | NC5330 | NC6310 | NC6315 | NC9115 | NC9125 | NC9135 | PC5300 | PC5400 | PC8105 | PC8110 | PC8115 | PC9030 | H01 | H05 | fn (mm/rev) | ap (mm) |
| Medium cutting | HM  | DNMG | 110404-HM | | | | | | | | | ● | | | | | | | | | | | | ● | | | 0.05~0.50 | 0.80~4.00 |
| | | | 110408-HM | | | | | | | | | | | | | | | | | | | | | ● | | | 0.10~0.50 | 1.00~4.00 |
| | | | 150404-HM | | | | | | | | ● | | | | | | | | | | | | | | | | 0.05~0.30 | 0.90~5.00 |
| | | | 150408-HM | | | | | | | ● | | | | | | | | | | | | | | | | | 0.10~0.50 | 1.00~5.00 |
| | | | 150604-HM | | | | | | | | | ● | | | ● | | | | | | | | | ● | | | 0.05~0.30 | 0.90~5.00 |
| | | | 150608-HM | | | | | | | ● | ● | ● | | | | | | | | | | | | ● | | | 0.10~0.50 | 1.00~5.00 |
| | | | 150612-HM | | | | | | | | | ● | | | | | | | | | | | | | | | 0.18~0.50 | 1.00~5.00 |
| Medium cutting | MK new | DNMG | 150404-MK | | | | | | | | | | | | ● | | | | | | | | | | | | 0.05~0.30 | 0.90~5.00 |
| | | | 150408-MK | | | | | | | | | | | | ● | | | | | | | | | | | | 0.10~0.50 | 1.00~5.00 |
| | | | 150412-MK | | | | | | | | | | | | | | | | | | | | | | | | 0.13~0.60 | 1.30~5.00 |
| | | | 150604-MK | | | | | | | | | | | ● | ● | | | | | | | | | | | | 0.05~0.30 | 0.90~5.00 |
| | | | 150608-MK | | | | | | | | | | | ● | ● | | | | | | | | | | | | 0.10~0.50 | 1.00~5.00 |
| | | | 150612-MK | | | | | | | | | | | | ● | | | | | | | | | | | | 0.13~0.60 | 1.30~5.00 |
| Medium cutting | MM new | DNMG | 110404-MM | | | | | | | | | | | | | | | | | | | | | ● | | | 0.08~0.35 | 0.50~5.00 |
| | | | 110408-MM | | | | | | | | | | | | | | ● | ● | | | | | | ● | | | 0.10~0.40 | 0.50~5.00 |
| | | | 110412-MM | | | | | | | | | | | | | | | | | | | | | | | | 0.12~0.45 | 0.50~5.00 |
| | | | 110504-MM | | | | | | | | | | | | | | | | | | | | | | | | 0.08~0.35 | 0.50~5.00 |
| | | | 110508-MM | | | | | | | | | | | | | | | | | | | | | | | | 0.10~0.40 | 0.50~5.00 |
| | | | 110512-MM | | | | | | | | | | | | | | | | | | | | | | | | 0.12~0.45 | 0.50~5.00 |
| | | | 150404-MM | | | | | | | | | | | | | | ● | ● | ● | | | | ● | ● | | | 0.10~0.40 | 0.50~6.40 |
| | | | 150408-MM | | | | | | | | | | | | | ● | ● | ● | ● | | | ● | ● | ● | | | 0.12~0.45 | 0.50~6.40 |
| | | | 150412-MM | | | | | | | | | | | | | ● | ● | ● | ● | | | | ● | | | | 0.15~0.60 | 0.50~6.40 |
| | | | 150416-MM | | | | | | | | | | | | | | | | | | | | | | | | 0.15~0.60 | 0.50~6.00 |
| | | | 150604-MM | | | | | | | | | | | | | | ● | ● | ● | | | | ● | ● | | | 0.10~0.40 | 0.50~6.40 |
| | | | 150608-MM | | | | | | | | | | | | | ● | ● | ● | ● | | | ● | ● | ● | | | 0.12~0.45 | 0.50~6.40 |
| | | | 150612-MM | | | | | | | | | | | | | ● | ● | ● | ● | | | | ● | ● | | | 0.15~0.60 | 0.50~6.40 |
| | | | 150616-MM | | | | | | | | | | | | | | | | | | | | | | | | 0.18~0.65 | 0.50~8.00 |
| Medium cutting | MP new | DNMG | 110404-MP | | | | | | ● | | ● | | ● | | | | ● | ● | | | | | | | | | 0.10~0.40 | 0.40~3.80 |
| | | | 110408-MP | | | | | | ● | | ● | | ● | | | | ● | ● | | | | | | | | | 0.15~0.40 | 0.50~4.00 |
| | | | 110412-MP | | | | | | | | | | | | | | | | | | | | | | | | 0.15~0.50 | 0.80~4.20 |
| | | | 110504-MP | | | | | | | | | | | | | | | | | | | | | | | | 0.10~0.40 | 0.40~3.80 |
| | | | 110508-MP | | | | | | | | | | | | | | | | | | | | | | | | 0.15~0.40 | 0.50~4.00 |
| | | | 110512-MP | | | | | | | | | | | | | | | | | | | | | | | | 0.15~0.50 | 0.80~4.20 |
| | | | 150404-MP | | | | | | ● | | ● | | ● | | | ● | ● | ● | | | | ● | | | | | 0.10~0.40 | 0.40~4.00 |
| | | | 150408-MP | | | | | | ● | | ● | | ● | | | ● | ● | ● | | | ● | ● | | | | | 0.15~0.45 | 0.50~4.50 |
| | | | 150412-MP | | | | | | ● | | ● | | ● | | | ● | ● | ● | | | ● | ● | | | | | 0.15~0.50 | 0.80~5.00 |
| | | | 150416-MP | | | | | | | | | | | | | | | | | | | | | | | | 0.15~0.50 | 0.85~5.00 |
| | | | 150604-MP | | | | | | ● | | ● | | ● | ● | | ● | ● | ● | | | ● | ● | | | | | 0.10~0.40 | 0.40~4.00 |
| | | | 150608-MP | | | | | | ● | | ● | | ● | ● | | ● | ● | ● | | | ● | ● | | | | | 0.15~0.45 | 0.50~4.50 |
| | | | 150612-MP | | | | | | ● | | ● | | ● | | | ● | ● | ● | | | ● | ● | | | | | 0.15~0.50 | 0.80~5.00 |
| | | | 150616-MP | | | | | | | | | | | | | | | | | | | | | | | | 0.15~0.55 | 0.85~5.00 |

Cutting edge geometry A52~A61 Recommended chip breaker B04~B11 Code system B26~B27

● : Stock item

| Available tool holders | | | |
|---|---|---|---|
| Designation | Page | Designation | Page |
| MCKNR/L | B171 | MCRNR/L | B172 |
| MCLNR/L | B171 | PCBNR/L | B159 |
| MCMNN | B171 | PCLNR/L | B160 |