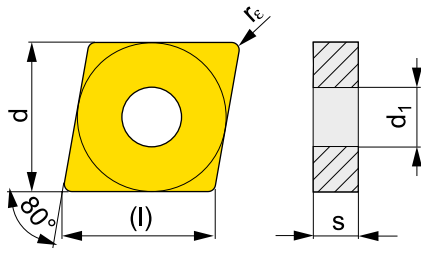


CNMG



| Dimensione<br>Dimension | (l)  | d      | d <sub>1</sub> | s    |  |  |
|-------------------------|------|--------|----------------|------|--|--|
| <b>0903</b>             | 9,7  | 9,525  | 3,81           | 3,18 |  |  |
| <b>1204</b>             | 12,9 | 12,700 | 5,16           | 4,76 |  |  |
| <b>1606</b>             | 16,1 | 15,875 | 6,35           | 6,35 |  |  |
| <b>1906</b>             | 19,3 | 19,050 | 7,94           | 6,35 |  |  |
| <b>2509</b>             | 25,8 | 25,400 | 9,12           | 9,52 |  |  |
|                         |      |        |                |      |  |  |
|                         |      |        |                |      |  |  |

Dimensioni / All dimensions [mm]

Per gli utensili vedere la pag / For tools see pages: 20, 25, 27-29, 45, 51,52

| Inserto<br>Chip breaker | ISO             | Qualità / Grades |       |       |       |       |       |       |      |      |       | Raggio<br>Radius<br>r <sub>c</sub> | Avanzamento<br>al giro<br>Feed per rev. |       | Profondità<br>di taglio<br>Cutting depth |                  |                    |                    |     |
|-------------------------|-----------------|------------------|-------|-------|-------|-------|-------|-------|------|------|-------|------------------------------------|---|-------|--|------------------|--------------------|--------------------|-----|
|                         |                 | T5305            | T5315 | T7335 | T9310 | T9315 | T9325 | T9335 | 6630 | 6640 | T8315 |                                    | T8330                                   | TT310 | f <sub>min</sub>                         | f <sub>max</sub> | a <sub>p min</sub> | a <sub>p max</sub> |     |
|                         | CNMG 120404E-FF |                  |       |       |       |       |       |       |      |      |       |                                    |   |       | 0,4                                      | 0,06             | 0,15               | 0,4                | 1,5 |
|                         | CNMG 120408E-FF |                  |       |       |       |       |       |       |      |      |       |                                    |   |       | 0,8                                      | 0,08             | 0,20               | 0,8                | 1,5 |
|                         | CNMG 090304E-FM |                  |       |       |       | ●     | ●     |       |      |      |       |                                    |   |       | 0,4                                      | 0,10             | 0,30               | 0,5                | 6,3 |
|                         | CNMG 090308E-FM |                  |       |       |       | ●     | ●     |       |      |      |       |                                    |   |       | 0,8                                      | 0,10             | 0,45               | 0,8                | 3,0 |
|                         | CNMG 120404E-FM |                  |       | ●     | ●     | ●     | ●     |       |      |      |       | ●                                  | ●                                       | ■     | 0,4                                      | 0,10             | 0,30               | 0,5                | 3,0 |
|                         | CNMG 120408E-FM |                  |       | ●     | ●     | ●     | ●     |       |      |      |       | ●                                  | ●                                       | ■     | 0,8                                      | 0,15             | 0,45               | 0,8                | 3,0 |
|                         | CNMG 120412E-FM |                  |       |       |       | ●     | ●     |       |      |      |       |                                    |   |       | 1,2                                      | 0,15             | 0,45               | 1,2                | 4,0 |
|                         | CNMG 120412E-KR | ■                | ■     |       |       |       |       |       |      |      |       |                                    |   |       | 1,2                                      | 0,25             | 0,70               | 1,2                | 7,0 |
|                         | CNMG 090308E-M  |                  |       |       |       | ●     | ●     | ●     |      |      |       |                                    |   |       | 0,8                                      | 0,15             | 0,60               | 0,8                | 4,0 |
|                         | CNMG 120404E-M  |                  | ■     |       | ●     | ●     | ●     | ●     |      |      |       |                                    |   |       | 0,4                                      | 0,17             | 0,30               | 0,8                | 6,0 |
|                         | CNMG 120408E-M  | ■                | ■     |       | ●     | ●     | ●     | ●     | ●    | ●    |       |                                    | ●                                       |       | 0,8                                      | 0,15             | 0,60               | 0,8                | 6,0 |
|                         | CNMG 120412E-M  | ■                | ■     |       | ●     | ●     | ●     | ●     | ●    |      |       |                                    |   |       | 1,2                                      | 0,17             | 0,80               | 1,2                | 6,0 |
|                         | CNMG 120416E-M  | ■                |       |       |       | ●     | ●     |       |      |      |       |                                    |   |       | 1,6                                      | 0,17             | 0,80               | 1,6                | 6,0 |
|                         | CNMG 160608E-M  |                  |       |       | ●     | ●     | ●     | ●     | ●    |      |       |                                    |   |       | 0,8                                      | 0,15             | 0,60               | 0,8                | 6,0 |
|                         | CNMG 160612E-M  |                  |       |       |       | ●     | ●     | ●     |      |      |       |                                    |   |       | 1,2                                      | 0,17             | 0,60               | 1,2                | 7,0 |
|                         | CNMG 160616E-M  |                  |       |       |       |       | ●     | ●     |      |      |       |                                    |   |       | 1,6                                      | 0,17             | 0,60               | 1,6                | 7,0 |
|                         | CNMG 190608E-M  |                  |       |       |       | ●     | ●     | ●     | ●    |      |       |                                    |   |       | 0,8                                      | 0,15             | 0,60               | 0,8                | 6,0 |
|                         | CNMG 190612E-M  |                  |       |       | ●     | ●     | ●     | ●     | ●    | ●    |       |                                    |   |       | 1,2                                      | 0,17             | 0,80               | 1,2                | 8,0 |
|                         | CNMG 190616E-M  |                  |       |       | ●     | ●     | ●     | ●     |      |      |       |                                    |   |       | 1,6                                      | 0,17             | 0,80               | 1,6                | 8,0 |
|                         |                 | CNMG 120408E-R   | ■     |       |       | ●     | ●     | ●     | ●    | ●    |       |                                    |   |       |  | 0,8              | 0,17               | 0,60               | 1,0 |
| CNMG 120412E-R          |                 | ■                |       |       | ●     | ●     | ●     | ●     |      |      |       |                                    |   |       | 1,2                                      | 0,25             | 0,70               | 2,0                | 6,0 |
| CNMG 120416E-R          |                 |                  |       |       |       |       |       |       |      |      |       |                                    |   |       | 1,6                                      | 0,30             | 0,80               | 2,0                | 6,0 |
| CNMG 160608E-R          |                 |                  |       |       |       |       |       |       |      |      |       |                                    |   |       | 0,8                                      | 0,25             | 0,60               | 3,0                | 7,0 |
| CNMG 160612E-R          |                 | ■                |       |       | ●     | ●     |       | ●     |      |      |       |                                    |   |       | 1,2                                      | 0,25             | 0,70               | 3,0                | 7,0 |
| CNMG 160616E-R          |                 | ■                |       |       |       |       |       |       |      |      |       |                                    |   |       | 1,6                                      | 0,25             | 0,70               | 3,0                | 7,0 |
| CNMG 190608E-R          |                 |                  |       |       |       |       |       |       |      |      |       |                                    |   |       | 0,8                                      | 0,25             | 0,60               | 3,0                | 8,0 |
| CNMG 190612E-R          |                 | ■                |       |       |       | ●     | ●     | ●     | ●    |      |       |                                    |   |       | 1,2                                      | 0,25             | 0,70               | 3,0                | 8,0 |
| CNMG 190616E-R          |                 | ■                |       |       | ●     | ●     | ●     | ●     | ●    |      |       |                                    |   |       | 1,6                                      | 0,25             | 0,70               | 2,0                | 9,0 |

| Inserto<br>Chip breaker | ISO              | Qualità / Grades |       |       |       |       |       |       |      |      |       | Raggio<br>Radius<br>$r_c$ | Avanzamento<br>al giro<br>Feed per rev. |       | Profondità<br>di taglio<br>Cutting depth |           | ISO D<br>ISO D |               |               |                |     |  |                |
|-------------------------|------------------|------------------|-------|-------|-------|-------|-------|-------|------|------|-------|---------------------------|---|-------|--|-----------|----------------|---------------|---------------|----------------|-----|--|----------------|
|                         |                  | T5305            | T5315 | T7335 | T9310 | T9315 | T9325 | T9335 | 6630 | 6640 | T8315 |                           | T8330                                   | TT310 | $f_{min}$                                | $f_{max}$ |                | $a_{p_{min}}$ | $a_{p_{max}}$ | ISO P<br>ISO P |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         | CNMG 120408E-RM  | ■                | ■     |       | ●     | ●     | ●     | ●     |      |      |       |                           | ●                                       | ●     |  |           |                | 0,8           | 0,20          | 0,50           | 1,0 | 7,0  | ISO P<br>ISO P |
|                         | CNMG 120412E-RM  | ■                | ■     |       | ●     | ●     | ●     | ●     |      |      |       |                           | ●                                       | ●     |  |           |                | 1,2           | 0,25          | 0,70           | 1,5 | 7,0  |                |
|                         | CNMG 120416E-RM  | ■                | ■     |       | ●     | ●     | ●     | ●     |      |      |       |                           | ●                                       |       |  |           |                | 1,6           | 0,30          | 0,75           | 2,0 | 7,0  |                |
|                         | CNMG 160608E-RM  | ■                | ■     |       |       | ●     | ●     | ●     |      |      |       |                           | ●                                       |       |  |           |                | 0,8           | 0,20          | 0,50           | 1,0 | 8,0  |                |
|                         | CNMG 160612E-RM  | ■                | ■     |       | ●     | ●     | ●     | ●     |      |      |       |                           | ●                                       |       |  |           |                | 1,2           | 0,25          | 0,70           | 1,5 | 8,0  |                |
|                         | CNMG 160616E-RM  | ■                | ■     |       | ●     | ●     | ●     | ●     |      |      |       |                           |   |       |  |           |                | 1,6           | 0,30          | 0,80           | 2,0 | 8,0  |                |
|                         | CNMG 190608E-RM  | ■                | ■     |       |       | ●     | ●     | ●     |      |      |       |                           |   |       |  |           |                | 0,8           | 0,20          | 0,50           | 1,0 | 10,0   |                |
|                         | CNMG 190612E-RM  | ■                | ■     |       | ●     | ●     | ●     | ●     |      |      |       |                           | ●                                       |       |  |           |                | 1,2           | 0,25          | 0,70           | 1,5 | 10,0   |                |
|                         | CNMG 190616E-RM  | ■                | ■     |       | ●     | ●     | ●     | ●     |      |      |       |                           |   |       |  |           |                | 1,6           | 0,30          | 0,80           | 2,0 | 10,0   |                |
|                         | CNMG 250924E-RM  |                  |       |       |       | ●     | ●     | ●     |      |      |       |                           |   |       |  |           |                | 2,4           | 0,40          | 1,00           | 2,5 | 15,0   |                |
|                         | CNMG 120408W-F   |                  | ■     |       |       | ●     | ●     |       |      |      |       |                           |   |       |  |           | 0,8            | 0,15          | 0,60          | 0,8            | 4,4 | ISO M<br>ISO M                               |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         | CNMG 120408W-M   |                  | ■     |       |       | ●     | ●     |       |      |      |       |                           |   |       |  |           | 0,8            | 0,15          | 0,60          | 0,8            | 4,0 | ISO S<br>ISO S                               |                |
|                         | CNMG 120412W-M   |                  | ■     |       |       | ●     | ●     |       |      |      |       |                           |   |       |  |           | 1,2            | 0,20          | 0,90          | 1,2            | 4,0 |  |                |
|                         | CNMG 120404E-NM  |                  |       |       | ●     |       | ●     |       |      |      |       |                           | ●                                       |       |  |           | 0,4            | 0,15          | 0,30          | 0,5            | 3,0 | ALTRE<br>OTHER                               |                |
|                         | CNMG 120408E-NM  |                  |       |       | ●     |       | ●     |       |      |      |       |                           | ●                                       |       |  |           | 0,8            | 0,20          | 0,40          | 0,8            | 3,0 |  |                |
|                         | CNMG 120412E-NM  |                  |       |       | ●     |       | ●     |       |      |      |       |                           | ●                                       |       |  |           | 1,2            | 0,20          | 0,40          | 1,2            | 3,5 |  |                |
|                         | CNMG 160608E-NM  |                  |       |       | ●     |       | ●     |       |      |      |       |                           | ●                                       |       |  |           | 0,8            | 0,25          | 0,50          | 0,8            | 5,0 |  |                |
|                         | CNMG 160612E-NM  |                  |       |       | ●     |       | ●     |       |      |      |       |                           |   |       |  |           | 1,2            | 0,25          | 0,50          | 1,2            | 5,0 |  |                |
|                         | CNMG 190612E-NM  |                  |       |       | ●     |       | ●     |       |      |      |       |                           | ●                                       |       |  |           | 1,2            | 0,30          | 0,50          | 1,2            | 8,0 |  |                |
|                         | CNMG 120404ER-SI |                  |       |       | ●     |       | ●     |       | ●    |      |       |                           | ●                                       |       |  |           | 0,4            | 0,20          | 0,30          | 0,8            | 5,0 | TRONCATURA, SCANALATURA<br>PARTING, GROOVING |                |
|                         | CNMG 120408ER-SI |                  |       |       | ●     |       | ●     |       | ●    |      |       |                           | ●                                       |       |  |           | 0,8            | 0,20          | 0,50          | 0,8            | 5,0 |  |                |
|                         | CNMG 120404EL-SI |                  |       |       | ●     |       | ●     |       |      |      |       |                           | ●                                       |       |  |           | 0,4            | 0,20          | 0,30          | 0,8            | 5,0 | FILETTATURA<br>THREADING                     |                |
|                         | CNMG 120408EL-SI |                  |       |       | ●     |       | ●     |       |      |      |       |                           | ●                                       |       |  |           | 0,8            | 0,20          | 0,50          | 0,8            | 5,0 |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |
|                         |                  |                  |       |       |       |       |       |       |      |      |       |                           |   |       |  |           |                |               |               |                |     |  |                |