



### NR-303 3 Flute C-2 Grade Standard Length

| Tool Number | Cutter Dia. D $\phi$ | Shank Dia. d $\phi$ | Flute Length L1 | Overall Length L |
|-------------|----------------------|---------------------|-----------------|------------------|
| NR-303-02   | 1/16"                | 1/8"                | 3/16"           | 1-1/2"           |
| NR-303-02.5 | 5/64"                | 1/8"                | 1/4"            | 1-1/2"           |
| NR-303-03   | 3/32"                | 1/8"                | 3/8"            | 1-1/2"           |
| NR-303-03.5 | 7/64"                | 1/8"                | 7/16"           | 1-1/2"           |
| NR-303-04   | 1/8"                 | 1/8"                | 1/2"            | 1-1/2"           |
| NR-303-05   | 5/32"                | 3/16"               | 9/16"           | 2"               |
| NR-303-06   | 3/16"                | 3/16"               | 5/8"            | 2"               |
| NR-303-07   | 7/32"                | 1/4"                | 5/8"            | 2-1/2"           |
| NR-303-08   | 1/4"                 | 1/4"                | 3/4"            | 2-1/2"           |
| NR-303-09   | 9/32"                | 5/16"               | 3/4"            | 2-1/2"           |
| NR-303-10   | 5/16"                | 5/16"               | 13/16"          | 2-1/2"           |
| NR-303-12   | 3/8"                 | 3/8"                | 7/8"            | 2-1/2"           |
| NR-303-14*  | 7/16"                | 7/16"               | 1"              | 2-3/4"           |
| NR-303-16   | 1/2"                 | 1/2"                | 1"              | 3"               |
| NR-303-18*  | 9/16"                | 9/16"               | 1-1/4"          | 3-1/2"           |
| NR-303-20   | 5/8"                 | 5/8"                | 1-1/4"          | 3-1/2"           |
| NR-303-24   | 3/4"                 | 3/4"                | 1-1/2"          | 4"               |

\*Without flats

### NR-404 4 Flute C-2 Grade Standard Length

| Tool Number  | Cutter Dia. D $\phi$ | Shank Dia. d $\phi$ | Flute Length L1 | Overall Length L |
|--------------|----------------------|---------------------|-----------------|------------------|
| NR-404-02    | 1/16"                | 1/8"                | 3/16"           | 1-1/2"           |
| NR-404-02.5  | 5/64"                | 1/8"                | 1/4"            | 1-1/2"           |
| NR-404-03    | 3/32"                | 1/8"                | 3/8"            | 1-1/2"           |
| NR-404-03.5  | 7/64"                | 1/8"                | 7/16"           | 1-1/2"           |
| NR-404-04    | 1/8"                 | 1/8"                | 1/2"            | 1-1/2"           |
| NR-404-04.5  | 9/64"                | 3/16"               | 1/2"            | 2"               |
| NR-404-05    | 5/32"                | 3/16"               | 9/16"           | 2"               |
| NR-404-05.5  | 11/64"               | 3/16"               | 5/8"            | 2"               |
| NR-404-06    | 3/16"                | 3/16"               | 5/8"            | 2"               |
| NR-404-06.5  | 13/64"               | 1/4"                | 5/8"            | 2-1/2"           |
| NR-404-07    | 7/32"                | 1/4"                | 5/8"            | 2-1/2"           |
| NR-404-07.5  | 15/64"               | 1/4"                | 5/8"            | 2-1/2"           |
| NR-404-08    | 1/4"                 | 1/4"                | 3/4"            | 2-1/2"           |
| NR-404-08.5  | 17/64"               | 5/16"               | 3/4"            | 2-1/2"           |
| NR-404-09    | 9/32"                | 5/16"               | 3/4"            | 2-1/2"           |
| NR-404-09.5  | 19/64"               | 5/16"               | 3/4"            | 2-1/2"           |
| NR-404-10    | 5/16"                | 5/16"               | 13/16"          | 2-1/2"           |
| NR-404-10.5  | 21/64"               | 3/8"                | 13/16"          | 2-1/2"           |
| NR-404-11    | 11/32"               | 3/8"                | 13/16"          | 2-1/2"           |
| NR-404-11.5  | 23/64"               | 3/8"                | 7/8"            | 2-1/2"           |
| NR-404-12    | 3/8"                 | 3/8"                | 7/8"            | 2-1/2"           |
| NR-404-12.5* | 25/64"               | 7/16"               | 1"              | 2-3/4"           |
| NR-404-13*   | 13/32"               | 7/16"               | 1"              | 2-3/4"           |
| NR-404-13.5* | 27/64"               | 7/16"               | 1"              | 2-3/4"           |
| NR-404-14*   | 7/16"                | 7/16"               | 1"              | 2-3/4"           |
| NR-404-14.5  | 29/64"               | 1/2"                | 1"              | 3"               |
| NR-404-15    | 15/32"               | 1/2"                | 1"              | 3"               |
| NR-404-15.5  | 31/64"               | 1/2"                | 1"              | 3"               |
| NR-404-16    | 1/2"                 | 1/2"                | 1"              | 3"               |
| NR-404-16.5  | 33/64"               | 1/2"                | 1"              | 3"               |
| NR-404-18*   | 9/16"                | 9/16"               | 1-1/4"          | 3-1/2"           |
| NR-404-20    | 5/8"                 | 5/8"                | 1-1/4"          | 3-1/2"           |
| NR-404-24    | 3/4"                 | 3/4"                | 1-1/2"          | 4"               |
| NR-404-32    | 1"                   | 1"                  | 1-1/2"          | 4"               |

\*Without flats