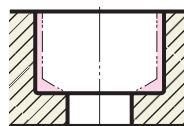


# NIKKEN CARBIDE RADICAL MILL REAMER DLC COATING

**NIKKEN**

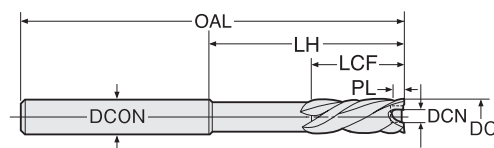
**RFSS-DLC**

For STEPPED HOLE  
Carbide Radical Mill Reamer (DLC Coating)



Explanation of the Code No.

RFSS - 10.0 - DLC  
 • RFSS : RADICAL MILLREAMER SERIES  
 RFSS : STRAIGHT SHANK FOR STEPPED HOLE  
 • 10.0 : DIAMETER  
 • DLC : DLC COATING



MILLING BLADE LH-HELIX 30-35° DLC COAT P.134 \*See P.4 for icons.

STOCK: ●=STANDARD STOCK ITEM(IN JAPAN) △=PRODUCTION BY ORDER

| Code No.       | STOCK | DC H7 | OAL | DCON | PL  | DCN | LCF | LH |
|----------------|-------|-------|-----|------|-----|-----|-----|----|
| RFSS- 3.97-DLC | △     | 3.97  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 3.98-DLC     | △     | 3.98  |     |      |     |     |     |    |
| - 3.99-DLC     | △     | 3.99  |     |      |     |     |     |    |
| - 4.0 -DLC     | △     | 4.0   |     |      |     |     |     |    |
| - 4.01-DLC     | △     | 4.01  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.02-DLC     | △     | 4.02  |     |      |     |     |     |    |
| - 4.03-DLC     | △     | 4.03  |     |      |     |     |     |    |
| - 4.04-DLC     | △     | 4.04  |     |      |     |     |     |    |
| - 4.05-DLC     | △     | 4.05  | 70  | 5    | 0.6 | 2.5 | 22  | 40 |
| - 4.5 -DLC     | △     | 4.5   |     |      |     |     |     |    |
| - 4.97-DLC     | △     | 4.97  |     |      |     |     |     |    |
| - 4.98-DLC     | △     | 4.98  |     |      |     |     |     |    |
| - 4.99-DLC     | △     | 4.99  | 70  | 5    | 0.6 | 2.5 | 22  | 40 |
| - 5.0 -DLC     | △     | 5.0   |     |      |     |     |     |    |
| - 5.01-DLC     | △     | 5.01  |     |      |     |     |     |    |
| - 5.02-DLC     | △     | 5.02  |     |      |     |     |     |    |
| - 5.03-DLC     | △     | 5.03  | 85  | 6    | 0.6 | 3.0 | 25  | 50 |
| - 5.04-DLC     | △     | 5.04  |     |      |     |     |     |    |
| - 5.05-DLC     | △     | 5.05  |     |      |     |     |     |    |
| - 5.5 -DLC     | △     | 5.5   |     |      |     |     |     |    |
| - 5.97-DLC     | △     | 5.97  | 90  | 8    | 0.6 | 3.5 | 25  | 50 |
| - 5.98-DLC     | △     | 5.98  |     |      |     |     |     |    |
| - 5.99-DLC     | △     | 5.99  |     |      |     |     |     |    |
| - 6.0 -DLC     | △     | 6.0   |     |      |     |     |     |    |
| - 6.01-DLC     | △     | 6.01  | 85  | 6    | 0.6 | 3.0 | 25  | 50 |
| - 6.02-DLC     | △     | 6.02  |     |      |     |     |     |    |
| - 6.03-DLC     | △     | 6.03  |     |      |     |     |     |    |
| - 6.04-DLC     | △     | 6.04  |     |      |     |     |     |    |
| - 6.05-DLC     | △     | 6.05  | 90  | 8    | 0.6 | 3.5 | 25  | 50 |
| - 6.5 -DLC     | △     | 6.5   |     |      |     |     |     |    |
| - 6.97-DLC     | △     | 6.97  |     |      |     |     |     |    |
| - 6.98-DLC     | △     | 6.98  |     |      |     |     |     |    |
| - 6.99-DLC     | △     | 6.99  | 90  | 8    | 0.6 | 3.5 | 25  | 50 |
| - 7.0 -DLC     | △     | 7.0   |     |      |     |     |     |    |
| - 7.01-DLC     | △     | 7.01  |     |      |     |     |     |    |
| - 7.02-DLC     | △     | 7.02  | 100 | 8    | 0.6 | 4.0 | 25  | 60 |
| - 7.03-DLC     | △     | 7.03  |     |      |     |     |     |    |
| - 7.04-DLC     | △     | 7.04  |     |      |     |     |     |    |
| - 7.05-DLC     | △     | 7.05  |     |      |     |     |     |    |
| - 7.5 -DLC     | △     | 7.5   | 100 | 8    | 0.6 | 4.0 | 25  | 60 |
| - 7.97-DLC     | △     | 7.97  |     |      |     |     |     |    |
| - 7.98-DLC     | △     | 7.98  |     |      |     |     |     |    |
| - 7.99-DLC     | △     | 7.99  |     |      |     |     |     |    |
| - 8.0 -DLC     | △     | 8.0   | 100 | 8    | 0.6 | 4.0 | 25  | 60 |
| - 8.01-DLC     | △     | 8.01  |     |      |     |     |     |    |
| - 8.02-DLC     | △     | 8.02  |     |      |     |     |     |    |
| - 8.03-DLC     | △     | 8.03  |     |      |     |     |     |    |
| - 8.04-DLC     | △     | 8.04  | 105 | 10   | 0.6 | 4.5 | 25  | 60 |
| - 8.05-DLC     | △     | 8.05  |     |      |     |     |     |    |
| - 8.5 -DLC     | △     | 8.5   |     |      |     |     |     |    |
| - 8.97-DLC     | △     | 8.97  |     |      |     |     |     |    |
| - 8.98-DLC     | △     | 8.98  | 105 | 10   | 0.6 | 4.5 | 25  | 60 |
| - 8.99-DLC     | △     | 8.99  |     |      |     |     |     |    |
| - 9.0 -DLC     | △     | 9.0   |     |      |     |     |     |    |
| - 9.01-DLC     | △     | 9.01  | 105 | 10   | 0.6 | 4.5 | 25  | 60 |
| - 9.02-DLC     | △     | 9.02  |     |      |     |     |     |    |
| - 9.03-DLC     | △     | 9.03  |     |      |     |     |     |    |
| - 9.04-DLC     | △     | 9.04  |     |      |     |     |     |    |

| Code No.       | STOCK | DC H7 | OAL | DCON | PL  | DCN | LCF | LH |
|----------------|-------|-------|-----|------|-----|-----|-----|----|
| RFSS- 9.05-DLC | △     | 9.05  | 105 | 10   | 0.6 | 4.5 | 25  | 60 |
| - 9.5 -DLC     | △     | 9.5   | 110 | 10   | 0.6 | 5.0 | 29  | 60 |
| - 9.97-DLC     | △     | 9.97  |     |      |     |     |     |    |
| - 9.98-DLC     | △     | 9.98  |     |      |     |     |     |    |
| - 9.99-DLC     | △     | 9.99  |     |      |     |     |     |    |
| -10.0 -DLC     | △     | 10    | 110 | 10   | 0.6 | 5.0 | 29  | 60 |
| -10.01-DLC     | △     | 10.01 |     |      |     |     |     |    |
| -10.02-DLC     | △     | 10.02 |     |      |     |     |     |    |
| -10.03-DLC     | △     | 10.03 |     |      |     |     |     |    |
| -10.04-DLC     | △     | 10.04 | 115 | 12   | 0.6 | 5.0 | 29  | 65 |
| -10.05-DLC     | △     | 10.05 |     |      |     |     |     |    |
| -10.5 -DLC     | △     | 10.5  |     |      |     |     |     |    |
| -10.97-DLC     | △     | 10.97 |     |      |     |     |     |    |
| -10.98-DLC     | △     | 10.98 | 115 | 12   | 0.6 | 5.0 | 29  | 65 |
| -10.99-DLC     | △     | 10.99 |     |      |     |     |     |    |
| -11.0 -DLC     | △     | 11.0  |     |      |     |     |     |    |
| -11.01-DLC     | △     | 11.01 | 115 | 12   | 0.6 | 5.0 | 29  | 65 |
| -11.02-DLC     | △     | 11.02 |     |      |     |     |     |    |
| -11.03-DLC     | △     | 11.03 |     |      |     |     |     |    |
| -11.04-DLC     | △     | 11.04 |     |      |     |     |     |    |
| -11.05-DLC     | △     | 11.05 | 125 | 12   | 0.6 | 6.0 | 29  | 70 |
| -11.5 -DLC     | △     | 11.5  |     |      |     |     |     |    |
| -11.97-DLC     | △     | 11.97 |     |      |     |     |     |    |
| -11.98-DLC     | △     | 11.98 |     |      |     |     |     |    |
| -11.99-DLC     | △     | 11.99 | 125 | 12   | 0.6 | 6.0 | 29  | 70 |
| -12.0 -DLC     | △     | 12.0  |     |      |     |     |     |    |
| -12.01-DLC     | △     | 12.01 |     |      |     |     |     |    |
| -12.02-DLC     | △     | 12.02 | 125 | 12   | 0.6 | 6.0 | 29  | 70 |
| -12.03-DLC     | △     | 12.03 |     |      |     |     |     |    |
| -12.04-DLC     | △     | 12.04 |     |      |     |     |     |    |
| -12.05-DLC     | △     | 12.05 |     |      |     |     |     |    |
| -12.5 -DLC     | △     | 12.5  | 130 | 12   | 0.6 | 6.0 | 29  | 75 |
| -12.97-DLC     | △     | 12.97 |     |      |     |     |     |    |
| -12.98-DLC     | △     | 12.98 |     |      |     |     |     |    |
| -12.99-DLC     | △     | 12.99 |     |      |     |     |     |    |
| -13.0 -DLC     | △     | 13.0  | 130 | 12   | 0.6 | 6.0 | 29  | 75 |
| -13.01-DLC     | △     | 13.01 |     |      |     |     |     |    |
| -13.02-DLC     | △     | 13.02 |     |      |     |     |     |    |
| -13.03-DLC     | △     | 13.03 |     |      |     |     |     |    |
| -13.04-DLC     | △     | 13.04 | 130 | 16   | 0.6 | 7.0 | 29  | 75 |
| -13.05-DLC     | △     | 13.05 |     |      |     |     |     |    |
| -13.5 -DLC     | △     | 13.5  |     |      |     |     |     |    |
| -13.97-DLC     | △     | 13.97 |     |      |     |     |     |    |
| -13.98-DLC     | △     | 13.98 | 130 | 16   | 0.6 | 7.0 | 29  | 75 |
| -13.99-DLC     | △     | 13.99 |     |      |     |     |     |    |
| -14.0 -DLC     | △     | 14.0  |     |      |     |     |     |    |
| -14.01-DLC     | △     | 14.01 | 140 | 16   | 0.6 | 7.0 | 29  | 80 |
| -14.02-DLC     | △     | 14.02 |     |      |     |     |     |    |
| -14.03-DLC     | △     | 14.03 |     |      |     |     |     |    |
| -14.04-DLC     | △     | 14.04 |     |      |     |     |     |    |
| -14.05-DLC     | △     | 14.05 | 150 | 16   | 0.6 | 7.0 | 30  | 90 |
| -14.5 -DLC     | △     | 14.5  |     |      |     |     |     |    |
| -15.0 -DLC     | △     | 15.0  |     |      |     |     |     |    |
| -15.5 -DLC     | △     | 15.5  |     |      |     |     |     |    |
| -16.0 -DLC     | △     | 16.0  | 150 | 16   | 0.6 | 8.0 | 30  | 90 |
| -16.5 -DLC     | △     | 16.5  |     |      |     |     |     |    |
| -17.0 -DLC     | △     | 17.0  |     |      |     |     |     |    |
| -17.5 -DLC     | △     | 17.5  |     |      |     |     |     |    |

★PL means chamfering length to ΦDC.

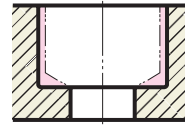
Next page

# NIKKEN CARBIDE RADICAL MILL REAMER DLC COATING

**NIKKEN**

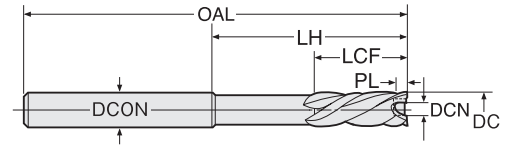
**RFSS-DLC**

For STEPPED HOLE  
Carbide Radical Mill Reamer (DLC Coating)



Explanation of the Code No.

RFSS - 10.0 - DLC  
 • DLC COATING  
 • DIAMETER  
 • RADICAL MILLREAMER SERIES  
 RFSS : STRAIGHT SHANK FOR STEPPED HOLE



MILLING  
BLADE

LH-HELIX  
30-35°

DLC  
COAT

P.134

\*See P.4 for icons.

STOCK: ●=STANDARD STOCK ITEM(IN JAPAN) △=PRODUCTION BY ORDER

| Code No.       | STOCK | DC H7 | OAL | DCON | PL  | DCN | LCF  | LH  |
|----------------|-------|-------|-----|------|-----|-----|------|-----|
| RFSS- 18.0-DLC | △     | 18.0  | 155 | 20   | 0.6 | 9.0 | 30   | 90  |
| - 18.5-DLC     | △     | 18.5  | 155 | 20   | 0.6 | 9.0 | 30   | 90  |
| - 19.0-DLC     | △     | 19.0  | 160 | 20   | 0.6 | 9.0 | 30   | 95  |
| - 19.5-DLC     | △     | 19.5  | 160 | 20   | 0.6 | 9.0 | 30   | 95  |
| - 20.0-DLC     | △     | 20.0  | 170 | 20   | 0.6 | 9.0 | 33.5 | 105 |
| - 20.5-DLC     | △     | 20.5  | 170 | 20   | 0.6 | 9.0 | 33.5 | 105 |
| - 21.0-DLC     | △     | 21.0  | 170 | 20   | 0.6 | 10  | 33.5 | 105 |
| - 21.5-DLC     | △     | 21.5  | 180 | 25   | 0.6 | 11  | 33.5 | 110 |
| - 22.0-DLC     | △     | 22.0  | 180 | 25   | 0.6 | 11  | 33.5 | 110 |
| - 22.5-DLC     | △     | 22.5  | 180 | 25   | 0.6 | 11  | 33.5 | 110 |
| - 23.0-DLC     | △     | 23.0  | 180 | 25   | 0.6 | 11  | 33.5 | 110 |
| - 23.5-DLC     | △     | 23.5  | 180 | 25   | 0.6 | 11  | 33.5 | 110 |
| - 24.0-DLC     | △     | 24.0  | 180 | 25   | 0.6 | 11  | 33.5 | 110 |

| Code No.       | STOCK | DC H7 | OAL | DCON | PL  | DCN | LCF  | LH  |
|----------------|-------|-------|-----|------|-----|-----|------|-----|
| RFSS- 24.5-DLC | △     | 24.5  | 190 | 25   | 0.6 | 12  | 33.5 | 120 |
| - 25.0-DLC     | △     | 25.0  | 190 | 25   | 0.6 | 13  | 33.5 | 120 |
| - 25.5-DLC     | △     | 25.5  | 190 | 25   | 0.6 | 13  | 33.5 | 120 |
| - 26.0-DLC     | △     | 26.0  | 190 | 25   | 0.6 | 13  | 33.5 | 120 |
| - 26.5-DLC     | △     | 26.5  | 190 | 25   | 0.6 | 13  | 33.5 | 120 |
| - 27.0-DLC     | △     | 27.0  | 190 | 25   | 0.6 | 13  | 33.5 | 120 |
| - 27.5-DLC     | △     | 27.5  | 200 | 32   | 0.6 | 14  | 39   | 120 |
| - 28.0-DLC     | △     | 28.0  | 200 | 32   | 0.9 | 15  | 39   | 120 |
| - 28.5-DLC     | △     | 28.5  | 200 | 32   | 0.9 | 15  | 39   | 120 |
| - 29.0-DLC     | △     | 29.0  | 200 | 32   | 0.9 | 15  | 39   | 120 |
| - 29.5-DLC     | △     | 29.5  | 200 | 32   | 0.9 | 15  | 39   | 120 |
| - 30.0-DLC     | △     | 30.0  | 200 | 32   | 0.9 | 15  | 39   | 120 |

★PL means chamfering length to  $\Phi$ DC.

★DCN is the front end bore diameter without bottom teeth, thus please make sure predrilled hole should be larger than  $\Phi$ DCN.

★Please slightly decrease feed rate before reaching the bottom of the hole without using G86.



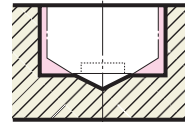
DLC coating reamer is for aluminium and non-ferrous metals reaming. Please select most suitable reamer for the other materials. P.5, P.6

# NIKKEN CARBIDE RADICAL MILL REAMER DLC COATING

**NIKKEN**

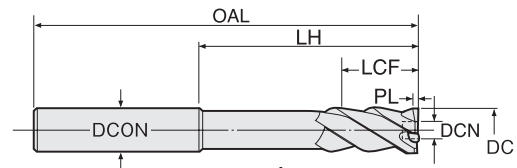
**RRSS-F-DLC**

RIGHT HAND HELICAL For BLIND HOLE  
Carbide Radical Mill Reamer (DLC Coating)



Explanation of the Code No.

RRSS - 10.0 - F - DLC  
 • DLC COATING  
 • FOR BLIND HOLE  
 • DIAMETER  
 • RADICAL MILLREAMER SERIES  
 RRSS : STRAIGHT SHANK RIGHT HAND HELICAL FOR BLIND HOLE



⚠ LCF must be longer than hole depth

MILLING  
BLADE

RH-HELIX  
40°

DLC  
COAT

P.134

\*See P.4 for icons.

STOCK: ●=STANDARD STOCK ITEM(IN JAPAN) △=PRODUCTION BY ORDER

| Code No.        | STOCK | DC H7 | OAL | DCON | PL  | DCN | LCF | LH |
|-----------------|-------|-------|-----|------|-----|-----|-----|----|
| RRSS- 2.97F-DLC | △     | 2.97  | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 2.98F-DLC     | △     | 2.98  | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 2.99F-DLC     | △     | 2.99  | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.0 F-DLC     | △     | 3.0   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.01F-DLC     | △     | 3.01  | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.02F-DLC     | △     | 3.02  | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.03F-DLC     | △     | 3.03  | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.04F-DLC     | △     | 3.04  | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.05F-DLC     | △     | 3.05  | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.1 F-DLC     | △     | 3.1   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.2 F-DLC     | △     | 3.2   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.3 F-DLC     | △     | 3.3   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.4 F-DLC     | △     | 3.4   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.5 F-DLC     | △     | 3.5   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.6 F-DLC     | △     | 3.6   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.7 F-DLC     | △     | 3.7   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.8 F-DLC     | △     | 3.8   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |
| - 3.9 F-DLC     | △     | 3.9   | 60  | 3    | 0.6 | 1.2 | 16  | 35 |

| Code No.        | STOCK | DC H7 | OAL | DCON | PL  | DCN | LCF | LH |
|-----------------|-------|-------|-----|------|-----|-----|-----|----|
| RRSS- 3.97F-DLC | △     | 3.97  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 3.98F-DLC     | △     | 3.98  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 3.99F-DLC     | △     | 3.99  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.0 F-DLC     | △     | 4.0   | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.01F-DLC     | △     | 4.01  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.02F-DLC     | △     | 4.02  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.03F-DLC     | △     | 4.03  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.04F-DLC     | △     | 4.04  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.05F-DLC     | △     | 4.05  | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.1 F-DLC     | △     | 4.1   | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.2 F-DLC     | △     | 4.2   | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.3 F-DLC     | △     | 4.3   | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.4 F-DLC     | △     | 4.4   | 60  | 4    | 0.6 | 2.0 | 18  | 35 |
| - 4.5 F-DLC     | △     | 4.5   | 70  | 5    | 0.6 | 2.0 | 22  | 40 |
| - 4.6 F-DLC     | △     | 4.6   | 70  | 5    | 0.6 | 2.0 | 22  | 40 |
| - 4.7 F-DLC     | △     | 4.7   | 70  | 5    | 0.6 | 2.0 | 22  | 40 |
| - 4.8 F-DLC     | △     | 4.8   | 70  | 5    | 0.6 | 2.0 | 22  | 40 |
| - 4.9 F-DLC     | △     | 4.9   | 70  | 5    | 0.6 | 2.0 | 22  | 40 |

★PL means chamfering length to  $\Phi$ DC.

Next page

CARBIDE

FOR STEPPED HOLE

FOR BLIND HOLE

