

# 微小徑、深溝系列

## MICRO DIAMETER & LONG NECK SERIES



# MBTA

Super  
MG

0.4  
μm

30°

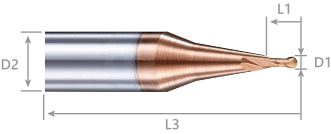
2 Flutes

HRC  
▶ 60

G12

微小徑圓頭立銑刀  
Ball Nose End Mills

Micro Diameter



| 型號<br>Type NO. | 直徑<br>D1 | 刃長<br>L1 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|----------|
| MBTA0032       | R0.15    | 0.6      | 50       | 4        |
| MBTA0042       | R0.2     | 0.8      | 50       | 4        |
| MBTA0052       | R0.25    | 1.0      | 50       | 4        |
| MBTA0062       | R0.3     | 1.2      | 50       | 4        |
| MBTA0072       | R0.35    | 1.4      | 50       | 4        |
| MBTA0082       | R0.4     | 1.6      | 50       | 4        |
| MBTA0102       | R0.5     | 2.0      | 50       | 4        |
| MBTA0122       | R0.6     | 2.4      | 50       | 4        |
| MBTA0142       | R0.7     | 2.8      | 50       | 4        |
| MBTA0152       | R0.75    | 3.0      | 50       | 4        |
| MBTA0162       | R0.8     | 3.2      | 50       | 4        |
| MBTA0182       | R0.9     | 3.6      | 50       | 4        |
| MBTA0202       | R1.0     | 4.0      | 50       | 4        |
| MBTA0302       | R1.5     | 6.0      | 50       | 4        |
| MBTA0402       | R2.0     | 8.0      | 50       | 4        |

# META

Super  
MG

0.4  
μm

35°

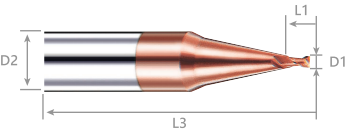
2 Flutes

HRC  
▶ 60

G12

微小徑立銑刀  
End Mills

Micro Diameter



| 型號<br>Type NO. | 直徑<br>D1 | 刃長<br>L1 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|----------|
| META0022       | 0.2      | 0.4      | 50       | 4        |
| META0032       | 0.3      | 0.6      | 50       | 4        |
| META0042       | 0.4      | 0.8      | 50       | 4        |
| META0052       | 0.5      | 1.0      | 50       | 4        |
| META0062       | 0.6      | 1.2      | 50       | 4        |
| META0072       | 0.7      | 1.4      | 50       | 4        |
| META0082       | 0.8      | 1.6      | 50       | 4        |
| META0092       | 0.9      | 1.8      | 50       | 4        |
| META0102       | 1.0      | 2.5      | 50       | 4        |
| META0122       | 1.2      | 3.0      | 50       | 4        |
| META0142       | 1.4      | 3.0      | 50       | 4        |
| META0152       | 1.5      | 4.0      | 50       | 4        |
| META0162       | 1.6      | 4.0      | 50       | 4        |
| META0182       | 1.8      | 5.0      | 50       | 4        |
| META0202       | 2.0      | 6.0      | 50       | 4        |
| META0252       | 2.5      | 8.0      | 50       | 4        |
| META0302       | 3.0      | 8.0      | 50       | 4        |

# MSB

Super  
MG

0.4  
μm

30°

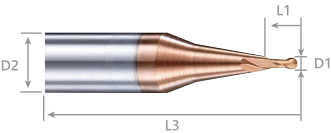
2 Flutes

HRC  
▶ 60

G12

微小徑圓頭立銑刀  
Ball Nose End Mills

Micro Diameter



| 型號<br>Type NO. | 直徑<br>D1 | 刃長<br>L1 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|----------|
| MSB0032        | R0.15    | 0.6      | 50       | 3        |
| MSB0042        | R0.2     | 0.8      | 50       | 3        |
| MSB0052        | R0.25    | 1.0      | 50       | 3        |
| MSB0062        | R0.3     | 1.2      | 50       | 3        |
| MSB0072        | R0.35    | 1.4      | 50       | 3        |
| MSB0082        | R0.4     | 1.6      | 50       | 3        |
| MSB0102        | R0.5     | 2.0      | 50       | 3        |
| MSB0122        | R0.6     | 2.4      | 50       | 3        |
| MSB0142        | R0.7     | 2.8      | 50       | 3        |
| MSB0152        | R0.75    | 3.0      | 50       | 3        |
| MSB0162        | R0.8     | 3.2      | 50       | 3        |
| MSB0182        | R0.9     | 3.6      | 50       | 3        |
| MSB0202        | R1.0     | 4.0      | 50       | 3        |
| MSB0302        | R1.5     | 6.0      | 50       | 3        |

# MET

Super  
MG

0.4  
μm

35°

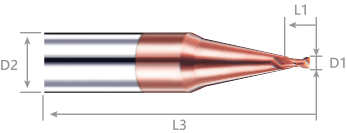
2 Flutes

HRC  
▶ 60

G12

微小徑立銑刀  
End Mills

Micro Diameter



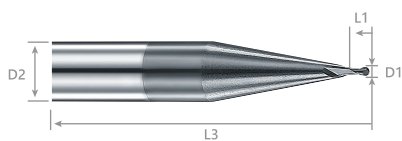
| 型號<br>Type NO. | 直徑<br>D1 | 刃長<br>L1 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|----------|
| MET0022        | 0.2      | 0.4      | 50       | 3        |
| MET0032        | 0.3      | 0.6      | 50       | 3        |
| MET0042        | 0.4      | 0.8      | 50       | 3        |
| MET0052        | 0.5      | 1.0      | 50       | 3        |
| MET0062        | 0.6      | 1.2      | 50       | 3        |
| MET0082        | 0.8      | 1.6      | 50       | 3        |
| MET0102        | 1.0      | 2.5      | 50       | 3        |
| MET0122        | 1.2      | 3.0      | 50       | 3        |
| MET0142        | 1.4      | 3.0      | 50       | 3        |
| MET0152        | 1.5      | 4.0      | 50       | 3        |
| MET0162        | 1.6      | 4.0      | 50       | 3        |
| MET0182        | 1.8      | 5.0      | 50       | 3        |
| MET0202        | 2.0      | 6.0      | 50       | 3        |
| MET0252        | 2.5      | 8.0      | 50       | 3        |
| MET0302        | 3.0      | 8.0      | 50       | 3        |

# UMB



## 微小徑圓頭立銑刀 Ball Nose End Mills

Micro Diameter



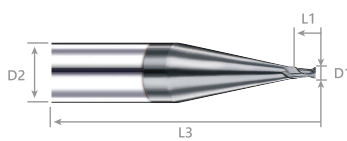
| 型號<br>Type NO. | 直徑<br>D1 | 刃長<br>L1 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|----------|
| UMB0022        | R0.1     | 0.4      | 50       | 4        |
| UMB0032        | R0.15    | 0.6      | 50       | 4        |
| UMB0042        | R0.2     | 0.8      | 50       | 4        |
| UMB0052        | R0.25    | 1.0      | 50       | 4        |
| UMB0062        | R0.3     | 1.2      | 50       | 4        |
| UMB0072        | R0.35    | 1.4      | 50       | 4        |
| UMB0082        | R0.4     | 1.6      | 50       | 4        |
| UMB0102S       | R0.5     | 2.0      | 50       | 3        |
| UMB0102        | R0.5     | 2.0      | 50       | 4        |
| UMB0152S       | R0.75    | 3.0      | 50       | 3        |
| UMB0152        | R0.75    | 3.0      | 50       | 4        |
| UMB0202S       | R1.0     | 4.0      | 50       | 3        |
| UMB0202        | R1.0     | 4.0      | 50       | 4        |
| UMB0302S       | R1.5     | 6.0      | 50       | 3        |
| UMB0302        | R1.5     | 6.0      | 50       | 4        |
| UMB0402        | R2.0     | 8.0      | 50       | 4        |

# UME



## 微小徑立銑刀 End Mills

Micro Diameter



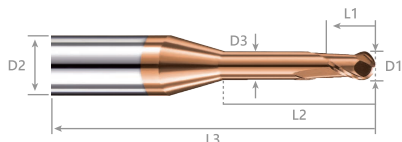
| 型號<br>Type NO. | 直徑<br>D1 | 刃長<br>L1 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|----------|
| UME0022        | 0.2      | 0.4      | 50       | 4        |
| UME0032        | 0.3      | 0.6      | 50       | 4        |
| UME0042        | 0.4      | 0.8      | 50       | 4        |
| UME0052        | 0.5      | 1.0      | 50       | 4        |
| UME0062        | 0.6      | 1.2      | 50       | 4        |
| UME0072        | 0.7      | 1.4      | 50       | 4        |
| UME0082        | 0.8      | 1.6      | 50       | 4        |
| UME0102        | 1.0      | 2.5      | 50       | 4        |
| UME0122        | 1.2      | 3.0      | 50       | 4        |
| UME0152        | 1.5      | 4.0      | 50       | 4        |
| UME0162        | 1.6      | 4.0      | 50       | 4        |
| UME0182        | 1.8      | 5.0      | 50       | 4        |
| UME0202        | 2.0      | 6.0      | 50       | 4        |
| UME0252        | 2.5      | 8.0      | 50       | 4        |
| UME0302        | 3.0      | 8.0      | 50       | 4        |
| UME0402        | 4.0      | 11.0     | 50       | 4        |

# LNB



## 深溝用圓頭立銑刀 Ball Nose End Mills

Long Neck



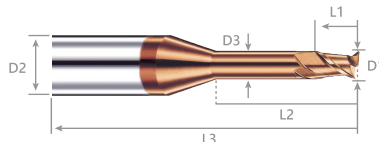
| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|-----------|----------|----------|
| LNB1006        | R0.5     | 0.95     | 1.5      | 6         | 50       | 4        |
| LNB1008        | R0.5     | 0.95     | 1.5      | 8         | 50       | 4        |
| LNB1010        | R0.5     | 0.95     | 1.5      | 10        | 50       | 4        |
| LNB1012        | R0.5     | 0.95     | 1.5      | 12        | 50       | 4        |
| LNB1508        | R0.75    | 1.45     | 2.0      | 8         | 50       | 4        |
| LNB1510        | R0.75    | 1.45     | 2.0      | 10        | 50       | 4        |
| LNB1512        | R0.75    | 1.45     | 2.0      | 12        | 50       | 4        |
| LNB1516        | R0.75    | 1.45     | 2.0      | 16        | 50       | 4        |
| LNB1520        | R0.75    | 1.45     | 2.0      | 20        | 50       | 4        |
| LNB2008        | R1.0     | 1.92     | 3.0      | 8         | 50       | 4        |
| LNB2010        | R1.0     | 1.92     | 3.0      | 10        | 50       | 4        |
| LNB2012        | R1.0     | 1.92     | 3.0      | 12        | 50       | 4        |
| LNB2016        | R1.0     | 1.92     | 3.0      | 16        | 50       | 4        |
| LNB2020        | R1.0     | 1.92     | 3.0      | 20        | 50       | 4        |
| LNB3008        | R1.5     | 2.90     | 4.0      | 8         | 50       | 6        |
| LNB3010        | R1.5     | 2.90     | 4.0      | 10        | 50       | 6        |
| LNB3012        | R1.5     | 2.90     | 4.0      | 12        | 50       | 6        |
| LNB3016        | R1.5     | 2.90     | 4.0      | 16        | 50       | 6        |
| LNB3020        | R1.5     | 2.90     | 4.0      | 20        | 60       | 6        |
| LNB3025        | R1.5     | 2.90     | 4.0      | 25        | 60       | 6        |
| LNB4012        | R2.0     | 3.88     | 5.0      | 12        | 60       | 6        |
| LNB4016        | R2.0     | 3.88     | 5.0      | 16        | 60       | 6        |
| LNB4020        | R2.0     | 3.88     | 5.0      | 20        | 60       | 6        |
| LNB4025        | R2.0     | 3.88     | 5.0      | 25        | 75       | 6        |
| LNB4030        | R2.0     | 3.88     | 5.0      | 30        | 75       | 6        |

# LNE



## 深溝用立銑刀 End Mills

Long Neck



| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|-----------|----------|----------|
| LNE0502        | 0.5      | 0.46     | 0.8      | 2         | 50       | 4        |
| LNE0504        | 0.5      | 0.46     | 0.8      | 4         | 50       | 4        |
| LNE0506        | 0.5      | 0.46     | 0.8      | 6         | 50       | 4        |
| LNE1006        | 1.0      | 0.95     | 1.5      | 6         | 50       | 4        |
| LNE1008        | 1.0      | 0.95     | 1.5      | 8         | 50       | 4        |
| LNE1010        | 1.0      | 0.95     | 1.5      | 10        | 50       | 4        |
| LNE1012        | 1.0      | 0.95     | 1.5      | 12        | 50       | 4        |
| LNE1508        | 1.5      | 1.45     | 2.0      | 8         | 50       | 4        |
| LNE1510        | 1.5      | 1.45     | 2.0      | 10        | 50       | 4        |
| LNE1512        | 1.5      | 1.45     | 2.0      | 12        | 50       | 4        |
| LNE1516        | 1.5      | 1.45     | 2.0      | 16        | 50       | 4        |
| LNE2008        | 2.0      | 1.92     | 3.0      | 8         | 50       | 4        |
| LNE2010        | 2.0      | 1.92     | 3.0      | 10        | 50       | 4        |
| LNE2012        | 2.0      | 1.92     | 3.0      | 12        | 50       | 4        |
| LNE2016        | 2.0      | 1.92     | 3.0      | 16        | 50       | 4        |
| LNE2020        | 2.0      | 1.92     | 3.0      | 20        | 50       | 4        |
| LNE2510        | 2.5      | 2.42     | 3.0      | 10        | 50       | 4        |
| LNE2512        | 2.5      | 2.42     | 3.0      | 12        | 50       | 4        |
| LNE2516        | 2.5      | 2.42     | 3.0      | 16        | 50       | 4        |
| LNE2520        | 2.5      | 2.42     | 3.0      | 20        | 50       | 4        |
| LNE3010        | 3.0      | 2.90     | 4.0      | 10        | 50       | 6        |
| LNE3012        | 3.0      | 2.90     | 4.0      | 12        | 50       | 6        |
| LNE3016        | 3.0      | 2.90     | 4.0      | 16        | 50       | 6        |
| LNE3020        | 3.0      | 2.90     | 4.0      | 20        | 60       | 6        |
| LNE3025        | 3.0      | 2.90     | 4.0      | 25        | 60       | 6        |

EXCHANGEABLE  
HEAD  
ENDMILL 2

HSC  
&  
HHC

UNEQUAL FLUTE  
SPACING  
VARIABLE HELIX  
SERIES

MICRO DIAMETER  
LONG NECK  
SERIES

STANDARD SERIES

SOFT MATERIALS  
SERIES

AEROSPACE TITANIUM  
SERIES

STAINLESS STEEL  
CUTTING SERIES

ECONOMY SERIES

CARBON STEEL  
CUTTING SERIES

GRAPHITE CUTTING  
SERIES

COMPOSITE  
MATERIALS  
CUTTING SERIES

CARBIDE DRILLS  
SERIES

THREAD MILLING  
TOOLS SERIES

THROW-AWAY  
INSERT SERIES

UNB

深溝用圓頭立銑刀  
Ball Nose End Mills

Long Neck

| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|-----------|----------|----------|
| UNB0502        | R0.25    | 0.46     | 0.8      | 2         | 50       | 4        |
| UNB0503        | R0.25    | 0.46     | 0.8      | 3         | 50       | 4        |
| UNB0504        | R0.25    | 0.46     | 0.8      | 4         | 50       | 4        |
| UNB0505        | R0.25    | 0.46     | 0.8      | 5         | 50       | 4        |
| UNB0506        | R0.25    | 0.46     | 0.8      | 6         | 50       | 4        |
| UNB0603        | R0.3     | 0.56     | 0.9      | 3         | 50       | 4        |
| UNB0604        | R0.3     | 0.56     | 0.9      | 4         | 50       | 4        |
| UNB0605        | R0.3     | 0.56     | 0.9      | 5         | 50       | 4        |
| UNB0606        | R0.3     | 0.56     | 0.9      | 6         | 50       | 4        |
| UNB0804        | R0.4     | 0.76     | 1.2      | 4         | 50       | 4        |
| UNB0805        | R0.4     | 0.76     | 1.2      | 5         | 50       | 4        |
| UNB0806        | R0.4     | 0.76     | 1.2      | 6         | 50       | 4        |
| UNB0808        | R0.4     | 0.76     | 1.2      | 8         | 50       | 4        |
| UNB0809        | R0.4     | 0.76     | 1.2      | 9         | 50       | 4        |
| UNB0810        | R0.4     | 0.76     | 1.2      | 10        | 50       | 4        |
| UNB1004        | R0.5     | 0.95     | 1.5      | 4         | 50       | 4        |
| UNB1005        | R0.5     | 0.95     | 1.5      | 5         | 50       | 4        |
| UNB1006        | R0.5     | 0.95     | 1.5      | 6         | 50       | 4        |
| UNB1008        | R0.5     | 0.95     | 1.5      | 8         | 50       | 4        |
| UNB1009        | R0.5     | 0.95     | 1.5      | 9         | 50       | 4        |
| UNB1010        | R0.5     | 0.95     | 1.5      | 10        | 50       | 4        |
| UNB1012        | R0.5     | 0.95     | 1.5      | 12        | 50       | 4        |
| UNB1205        | R0.6     | 1.15     | 2.0      | 5         | 50       | 4        |
| UNB1206        | R0.6     | 1.15     | 2.0      | 6         | 50       | 4        |
| UNB1208        | R0.6     | 1.15     | 2.0      | 8         | 50       | 4        |
| UNB1209        | R0.6     | 1.15     | 2.0      | 9         | 50       | 4        |
| UNB1210        | R0.6     | 1.15     | 2.0      | 10        | 50       | 4        |
| UNB1212        | R0.6     | 1.15     | 2.0      | 12        | 50       | 4        |
| UNB1506        | R0.75    | 1.45     | 2.0      | 6         | 50       | 4        |
| UNB1508        | R0.75    | 1.45     | 2.0      | 8         | 50       | 4        |
| UNB1509        | R0.75    | 1.45     | 2.0      | 9         | 50       | 4        |
| UNB1510        | R0.75    | 1.45     | 2.0      | 10        | 50       | 4        |
| UNB1512        | R0.75    | 1.45     | 2.0      | 12        | 50       | 4        |
| UNB1514        | R0.75    | 1.45     | 2.0      | 14        | 50       | 4        |
| UNB1515        | R0.75    | 1.45     | 2.0      | 15        | 50       | 4        |
| UNB1516        | R0.75    | 1.45     | 2.0      | 16        | 50       | 4        |
| UNB1518        | R0.75    | 1.45     | 2.0      | 18        | 50       | 4        |
| UNB1520        | R0.75    | 1.45     | 2.0      | 20        | 50       | 4        |
| UNB1608        | R0.8     | 1.54     | 2.5      | 8         | 50       | 4        |
| UNB1609        | R0.8     | 1.54     | 2.5      | 9         | 50       | 4        |
| UNB1610        | R0.8     | 1.54     | 2.5      | 10        | 50       | 4        |
| UNB1612        | R0.8     | 1.54     | 2.5      | 12        | 50       | 4        |
| UNB1614        | R0.8     | 1.54     | 2.5      | 14        | 50       | 4        |
| UNB1615        | R0.8     | 1.54     | 2.5      | 15        | 50       | 4        |
| UNB1616        | R0.8     | 1.54     | 2.5      | 16        | 50       | 4        |

| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|-----------|----------|----------|
| UNB2006        | R1.0     | 1.92     | 3.0      | 6         | 50       | 4        |
| UNB2008        | R1.0     | 1.92     | 3.0      | 8         | 50       | 4        |
| UNB2009        | R1.0     | 1.92     | 3.0      | 9         | 50       | 4        |
| UNB2010        | R1.0     | 1.92     | 3.0      | 10        | 50       | 4        |
| UNB2012        | R1.0     | 1.92     | 3.0      | 12        | 50       | 4        |
| UNB2014        | R1.0     | 1.92     | 3.0      | 14        | 50       | 4        |
| UNB2015        | R1.0     | 1.92     | 3.0      | 15        | 50       | 4        |
| UNB2016        | R1.0     | 1.92     | 3.0      | 16        | 50       | 4        |
| UNB2018        | R1.0     | 1.92     | 3.0      | 18        | 50       | 4        |
| UNB2020        | R1.0     | 1.92     | 3.0      | 20        | 50       | 4        |
| UNB3006        | R1.5     | 2.90     | 4.0      | 6         | 50       | 6        |
| UNB3008        | R1.5     | 2.90     | 4.0      | 8         | 50       | 6        |
| UNB3009        | R1.5     | 2.90     | 4.0      | 9         | 50       | 6        |
| UNB3010        | R1.5     | 2.90     | 4.0      | 10        | 50       | 6        |
| UNB3012        | R1.5     | 2.90     | 4.0      | 12        | 50       | 6        |
| UNB3014        | R1.5     | 2.90     | 4.0      | 14        | 50       | 6        |
| UNB3015        | R1.5     | 2.90     | 4.0      | 15        | 50       | 6        |
| UNB3016        | R1.5     | 2.90     | 4.0      | 16        | 50       | 6        |
| UNB3018        | R1.5     | 2.90     | 4.0      | 18        | 60       | 6        |
| UNB3020        | R1.5     | 2.90     | 4.0      | 20        | 60       | 6        |
| UNB3022        | R1.5     | 2.90     | 4.0      | 22        | 60       | 6        |
| UNB3024        | R1.5     | 2.90     | 4.0      | 24        | 60       | 6        |
| UNB3025        | R1.5     | 2.90     | 4.0      | 25        | 60       | 6        |
| UNB4008        | R2.0     | 3.88     | 5.0      | 8         | 75       | 6        |
| UNB4009        | R2.0     | 3.88     | 5.0      | 9         | 75       | 6        |
| UNB4010        | R2.0     | 3.88     | 5.0      | 10        | 75       | 6        |
| UNB4012        | R2.0     | 3.88     | 5.0      | 12        | 75       | 6        |
| UNB4014        | R2.0     | 3.88     | 5.0      | 14        | 75       | 6        |
| UNB4015        | R2.0     | 3.88     | 5.0      | 15        | 75       | 6        |
| UNB4016        | R2.0     | 3.88     | 5.0      | 16        | 75       | 6        |
| UNB4018        | R2.0     | 3.88     | 5.0      | 18        | 75       | 6        |
| UNB4020        | R2.0     | 3.88     | 5.0      | 20        | 75       | 6        |
| UNB4022        | R2.0     | 3.88     | 5.0      | 22        | 75       | 6        |
| UNB4025        | R2.0     | 3.88     | 5.0      | 25        | 75       | 6        |
| UNB4026        | R2.0     | 3.88     | 5.0      | 26        | 75       | 6        |
| UNB4028        | R2.0     | 3.88     | 5.0      | 28        | 75       | 6        |
| UNB4030        | R2.0     | 3.88     | 5.0      | 30        | 75       | 6        |

Super  
MG

0.2  
μm

15°

2 Flutes

HRC  
▶ 65

G12

DHF Precision Tool

unit / mm

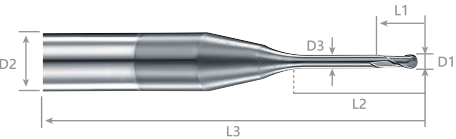
35

UNBX<sup>2T</sup>

深溝用圓頭立銑刀  
Ball Nose End Mills

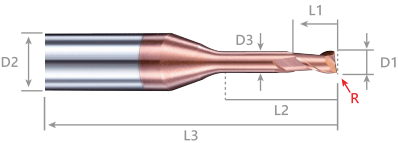


Long Neck



| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|-----------|----------|----------|
| UNBX0201       | R0.1     | 0.18     | 0.3      | 1         | 50       | 4        |
| UNBX02015      | R0.1     | 0.18     | 0.3      | 1.5       | 50       | 4        |
| UNBX0202       | R0.1     | 0.18     | 0.3      | 2         | 50       | 4        |
| UNBX0301       | R0.15    | 0.26     | 0.4      | 1         | 50       | 4        |
| UNBX0302       | R0.15    | 0.26     | 0.4      | 2         | 50       | 4        |
| UNBX0303       | R0.15    | 0.26     | 0.4      | 3         | 50       | 4        |
| UNBX0401       | R0.2     | 0.36     | 0.6      | 1         | 50       | 4        |
| UNBX0402       | R0.2     | 0.36     | 0.6      | 2         | 50       | 4        |
| UNBX0403       | R0.2     | 0.36     | 0.6      | 3         | 50       | 4        |
| UNBX0404       | R0.2     | 0.36     | 0.6      | 4         | 50       | 4        |
| UNBX0502       | R0.25    | 0.46     | 0.8      | 2         | 50       | 4        |
| UNBX0503       | R0.25    | 0.46     | 0.8      | 3         | 50       | 4        |
| UNBX0504       | R0.25    | 0.46     | 0.8      | 4         | 50       | 4        |
| UNBX0505       | R0.25    | 0.46     | 0.8      | 5         | 50       | 4        |
| UNBX0506       | R0.25    | 0.46     | 0.8      | 6         | 50       | 4        |
| UNBX0602       | R0.3     | 0.56     | 0.9      | 2         | 50       | 4        |
| UNBX0603       | R0.3     | 0.56     | 0.9      | 3         | 50       | 4        |
| UNBX0604       | R0.3     | 0.56     | 0.9      | 4         | 50       | 4        |
| UNBX0605       | R0.3     | 0.56     | 0.9      | 5         | 50       | 4        |
| UNBX0606       | R0.3     | 0.56     | 0.9      | 6         | 50       | 4        |
| UNBX0804       | R0.4     | 0.76     | 1.2      | 4         | 50       | 4        |
| UNBX0805       | R0.4     | 0.76     | 1.2      | 5         | 50       | 4        |
| UNBX0806       | R0.4     | 0.76     | 1.2      | 6         | 50       | 4        |
| UNBX0808       | R0.4     | 0.76     | 1.2      | 8         | 50       | 4        |
| UNBX0809       | R0.4     | 0.76     | 1.2      | 9         | 50       | 4        |
| UNBX0810       | R0.4     | 0.76     | 1.2      | 10        | 50       | 4        |
| UNBX1004       | R0.5     | 0.95     | 1.5      | 4         | 50       | 4        |
| UNBX1005       | R0.5     | 0.95     | 1.5      | 5         | 50       | 4        |
| UNBX1006       | R0.5     | 0.95     | 1.5      | 6         | 50       | 4        |
| UNBX1008       | R0.5     | 0.95     | 1.5      | 8         | 50       | 4        |
| UNBX1009       | R0.5     | 0.95     | 1.5      | 9         | 50       | 4        |
| UNBX1010       | R0.5     | 0.95     | 1.5      | 10        | 50       | 4        |
| UNBX1012       | R0.5     | 0.95     | 1.5      | 12        | 50       | 4        |
| UNBX1205       | R0.6     | 1.15     | 2.0      | 5         | 50       | 4        |
| UNBX1206       | R0.6     | 1.15     | 2.0      | 6         | 50       | 4        |
| UNBX1208       | R0.6     | 1.15     | 2.0      | 8         | 50       | 4        |
| UNBX1210       | R0.6     | 1.15     | 2.0      | 10        | 50       | 4        |
| UNBX1212       | R0.6     | 1.15     | 2.0      | 12        | 50       | 4        |
| UNBX1506       | R0.75    | 1.45     | 2.0      | 6         | 50       | 4        |
| UNBX1508       | R0.75    | 1.45     | 2.0      | 8         | 50       | 4        |
| UNBX1509       | R0.75    | 1.45     | 2.0      | 9         | 50       | 4        |
| UNBX1510       | R0.75    | 1.45     | 2.0      | 10        | 50       | 4        |
| UNBX1512       | R0.75    | 1.45     | 2.0      | 12        | 50       | 4        |
| UNBX1514       | R0.75    | 1.45     | 2.0      | 14        | 50       | 4        |
| UNBX1515       | R0.75    | 1.45     | 2.0      | 15        | 50       | 4        |
| UNBX1516       | R0.75    | 1.45     | 2.0      | 16        | 50       | 4        |
| UNBX1518       | R0.75    | 1.45     | 2.0      | 18        | 50       | 4        |
| UNBX1520       | R0.75    | 1.45     | 2.0      | 20        | 50       | 4        |

| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|-----------|----------|----------|
| UNBX1608       | R0.8     | 1.54     | 2.5      | 8         | 50       | 4        |
| UNBX1609       | R0.8     | 1.54     | 2.5      | 9         | 50       | 4        |
| UNBX1610       | R0.8     | 1.54     | 2.5      | 10        | 50       | 4        |
| UNBX1612       | R0.8     | 1.54     | 2.5      | 12        | 50       | 4        |
| UNBX1614       | R0.8     | 1.54     | 2.5      | 14        | 50       | 4        |
| UNBX1615       | R0.8     | 1.54     | 2.5      | 15        | 50       | 4        |
| UNBX1616       | R0.8     | 1.54     | 2.5      | 16        | 50       | 4        |
| UNBX2006       | R1.0     | 1.92     | 3.0      | 6         | 50       | 4        |
| UNBX2008       | R1.0     | 1.92     | 3.0      | 8         | 50       | 4        |
| UNBX2009       | R1.0     | 1.92     | 3.0      | 9         | 50       | 4        |
| UNBX2010       | R1.0     | 1.92     | 3.0      | 10        | 50       | 4        |
| UNBX2012       | R1.0     | 1.92     | 3.0      | 12        | 50       | 4        |
| UNBX2014       | R1.0     | 1.92     | 3.0      | 14        | 50       | 4        |
| UNBX2015       | R1.0     | 1.92     | 3.0      | 15        | 50       | 4        |
| UNBX2016       | R1.0     | 1.92     | 3.0      | 16        | 50       | 4        |
| UNBX2018       | R1.0     | 1.92     | 3.0      | 18        | 50       | 4        |
| UNBX2020       | R1.0     | 1.92     | 3.0      | 20        | 50       | 4        |
| UNBX3006       | R1.5     | 2.90     | 4.0      | 6         | 50       | 6        |
| UNBX3008       | R1.5     | 2.90     | 4.0      | 8         | 50       | 6        |
| UNBX3009       | R1.5     | 2.90     | 4.0      | 9         | 50       | 6        |
| UNBX3010       | R1.5     | 2.90     | 4.0      | 10        | 50       | 6        |
| UNBX3012       | R1.5     | 2.90     | 4.0      | 12        | 50       | 6        |
| UNBX3014       | R1.5     | 2.90     | 4.0      | 14        | 50       | 6        |
| UNBX3015       | R1.5     | 2.90     | 4.0      | 15        | 50       | 6        |
| UNBX3016       | R1.5     | 2.90     | 4.0      | 16        | 50       | 6        |
| UNBX3018       | R1.5     | 2.90     | 4.0      | 18        | 60       | 6        |
| UNBX3020       | R1.5     | 2.90     | 4.0      | 20        | 60       | 6        |
| UNBX3022       | R1.5     | 2.90     | 4.0      | 22        | 60       | 6        |
| UNBX3024       | R1.5     | 2.90     | 4.0      | 24        | 60       | 6        |
| UNBX3025       | R1.5     | 2.90     | 4.0      | 25        | 60       | 6        |
| UNBX4008       | R2.0     | 3.88     | 5.0      | 8         | 75       | 6        |
| UNBX4009       | R2.0     | 3.88     | 5.0      | 9         | 75       | 6        |
| UNBX4010       | R2.0     | 3.88     | 5.0      | 10        | 75       | 6        |
| UNBX4012       | R2.0     | 3.88     | 5.0      | 12        | 75       | 6        |
| UNBX4014       | R2.0     | 3.88     | 5.0      | 14        | 75       | 6        |
| UNBX4015       | R2.0     | 3.88     | 5.0      | 15        | 75       | 6        |
| UNBX4016       | R2.0     | 3.88     | 5.0      | 16        | 75       | 6        |
| UNBX4018       | R2.0     | 3.88     | 5.0      | 18        | 75       | 6        |
| UNBX4020       | R2.0     | 3.88     | 5.0      | 20        | 75       | 6        |
| UNBX4022       | R2.0     | 3.88     | 5.0      | 22        | 75       | 6        |
| UNBX4025       | R2.0     | 3.88     | 5.0      | 25        | 75       | 6        |
| UNBX4026       | R2.0     | 3.88     | 5.0      | 26        | 75       | 6        |
| UNBX4028       | R2.0     | 3.88     | 5.0      | 28        | 75       | 6        |
| UNBX4030       | R2.0     | 3.88     | 5.0      | 30        | 75       | 6        |

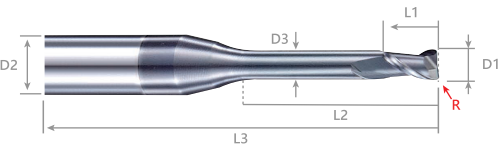


| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | R角<br>R | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|---------|----------|-----------|----------|----------|
| UNE100401      | 1.0      | 0.95     | 0.1     | 1.5      | 4         | 50       | 6        |
| UNE100501      | 1.0      | 0.95     | 0.1     | 1.5      | 5         | 50       | 6        |
| UNE100601      | 1.0      | 0.95     | 0.1     | 1.5      | 6         | 50       | 6        |
| UNE100801      | 1.0      | 0.95     | 0.1     | 1.5      | 8         | 50       | 6        |
| UNE101001      | 1.0      | 0.95     | 0.1     | 1.5      | 10        | 50       | 6        |
| UNE101201      | 1.0      | 0.95     | 0.1     | 1.5      | 12        | 50       | 6        |
| UNE100402      | 1.0      | 0.95     | 0.2     | 1.5      | 4         | 50       | 6        |
| UNE100502      | 1.0      | 0.95     | 0.2     | 1.5      | 5         | 50       | 6        |
| UNE100602      | 1.0      | 0.95     | 0.2     | 1.5      | 6         | 50       | 6        |
| UNE100802      | 1.0      | 0.95     | 0.2     | 1.5      | 8         | 50       | 6        |
| UNE101002      | 1.0      | 0.95     | 0.2     | 1.5      | 10        | 50       | 6        |
| UNE101202      | 1.0      | 0.95     | 0.2     | 1.5      | 12        | 50       | 6        |
| UNE100403      | 1.0      | 0.95     | 0.3     | 1.5      | 4         | 50       | 6        |
| UNE100503      | 1.0      | 0.95     | 0.3     | 1.5      | 5         | 50       | 6        |
| UNE100603      | 1.0      | 0.95     | 0.3     | 1.5      | 6         | 50       | 6        |
| UNE100803      | 1.0      | 0.95     | 0.3     | 1.5      | 8         | 50       | 6        |
| UNE101003      | 1.0      | 0.95     | 0.3     | 1.5      | 10        | 50       | 6        |
| UNE101203      | 1.0      | 0.95     | 0.3     | 1.5      | 12        | 50       | 6        |
| UNE150401      | 1.5      | 1.44     | 0.1     | 1.5      | 4         | 50       | 6        |
| UNE150501      | 1.5      | 1.44     | 0.1     | 1.5      | 5         | 50       | 6        |
| UNE150601      | 1.5      | 1.44     | 0.1     | 1.5      | 6         | 50       | 6        |
| UNE150801      | 1.5      | 1.44     | 0.1     | 1.5      | 8         | 50       | 6        |
| UNE151001      | 1.5      | 1.44     | 0.1     | 1.5      | 10        | 50       | 6        |
| UNE151201      | 1.5      | 1.44     | 0.1     | 1.5      | 12        | 50       | 6        |
| UNE151401      | 1.5      | 1.44     | 0.1     | 1.5      | 14        | 50       | 6        |
| UNE151601      | 1.5      | 1.44     | 0.1     | 1.5      | 16        | 50       | 6        |
| UNE150402      | 1.5      | 1.44     | 0.2     | 1.5      | 4         | 50       | 6        |
| UNE150502      | 1.5      | 1.44     | 0.2     | 1.5      | 5         | 50       | 6        |
| UNE150602      | 1.5      | 1.44     | 0.2     | 1.5      | 6         | 50       | 6        |
| UNE150802      | 1.5      | 1.44     | 0.2     | 1.5      | 8         | 50       | 6        |
| UNE151002      | 1.5      | 1.44     | 0.2     | 1.5      | 10        | 50       | 6        |
| UNE151202      | 1.5      | 1.44     | 0.2     | 1.5      | 12        | 50       | 6        |
| UNE151402      | 1.5      | 1.44     | 0.2     | 1.5      | 14        | 50       | 6        |
| UNE151602      | 1.5      | 1.44     | 0.2     | 1.5      | 16        | 50       | 6        |
| UNE150403      | 1.5      | 1.44     | 0.3     | 1.5      | 4         | 50       | 6        |
| UNE150503      | 1.5      | 1.44     | 0.3     | 1.5      | 5         | 50       | 6        |
| UNE150603      | 1.5      | 1.44     | 0.3     | 1.5      | 6         | 50       | 6        |
| UNE150803      | 1.5      | 1.44     | 0.3     | 1.5      | 8         | 50       | 6        |
| UNE151003      | 1.5      | 1.44     | 0.3     | 1.5      | 10        | 50       | 6        |
| UNE151203      | 1.5      | 1.44     | 0.3     | 1.5      | 12        | 50       | 6        |
| UNE151403      | 1.5      | 1.44     | 0.3     | 1.5      | 14        | 50       | 6        |
| UNE151603      | 1.5      | 1.44     | 0.3     | 1.5      | 16        | 50       | 6        |
| UNE200601      | 2.0      | 1.92     | 0.1     | 2.0      | 6         | 50       | 6        |
| UNE200801      | 2.0      | 1.92     | 0.1     | 2.0      | 8         | 50       | 6        |
| UNE201001      | 2.0      | 1.92     | 0.1     | 2.0      | 10        | 50       | 6        |
| UNE201201      | 2.0      | 1.92     | 0.1     | 2.0      | 12        | 50       | 6        |
| UNE201401      | 2.0      | 1.92     | 0.1     | 2.0      | 14        | 50       | 6        |
| UNE201501      | 2.0      | 1.92     | 0.1     | 2.0      | 15        | 50       | 6        |
| UNE201601      | 2.0      | 1.92     | 0.1     | 2.0      | 16        | 50       | 6        |
| UNE201801      | 2.0      | 1.92     | 0.1     | 2.0      | 18        | 50       | 6        |
| UNE202001      | 2.0      | 1.92     | 0.1     | 2.0      | 20        | 50       | 6        |
| UNE200602      | 2.0      | 1.92     | 0.2     | 2.0      | 6         | 50       | 6        |
| UNE200802      | 2.0      | 1.92     | 0.2     | 2.0      | 8         | 50       | 6        |
| UNE201002      | 2.0      | 1.92     | 0.2     | 2.0      | 10        | 50       | 6        |
| UNE201202      | 2.0      | 1.92     | 0.2     | 2.0      | 12        | 50       | 6        |
| UNE201402      | 2.0      | 1.92     | 0.2     | 2.0      | 14        | 50       | 6        |
| UNE201502      | 2.0      | 1.92     | 0.2     | 2.0      | 15        | 50       | 6        |
| UNE201602      | 2.0      | 1.92     | 0.2     | 2.0      | 16        | 50       | 6        |
| UNE201802      | 2.0      | 1.92     | 0.2     | 2.0      | 18        | 50       | 6        |
| UNE202002      | 2.0      | 1.92     | 0.2     | 2.0      | 20        | 50       | 6        |
| UNE200603      | 2.0      | 1.92     | 0.3     | 2.0      | 6         | 50       | 6        |
| UNE200803      | 2.0      | 1.92     | 0.3     | 2.0      | 8         | 50       | 6        |
| UNE201003      | 2.0      | 1.92     | 0.3     | 2.0      | 10        | 50       | 6        |
| UNE201203      | 2.0      | 1.92     | 0.3     | 2.0      | 12        | 50       | 6        |
| UNE201403      | 2.0      | 1.92     | 0.3     | 2.0      | 14        | 50       | 6        |
| UNE201503      | 2.0      | 1.92     | 0.3     | 2.0      | 15        | 50       | 6        |
| UNE201603      | 2.0      | 1.92     | 0.3     | 2.0      | 16        | 50       | 6        |
| UNE201803      | 2.0      | 1.92     | 0.3     | 2.0      | 18        | 50       | 6        |
| UNE202003      | 2.0      | 1.92     | 0.3     | 2.0      | 20        | 50       | 6        |
| UNE250801      | 2.5      | 2.40     | 0.1     | 3.0      | 8         | 50       | 6        |
| UNE251001      | 2.5      | 2.40     | 0.1     | 3.0      | 10        | 50       | 6        |
| UNE251201      | 2.5      | 2.40     | 0.1     | 3.0      | 12        | 50       | 6        |

| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | R角<br>R | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|---------|----------|-----------|----------|----------|
| UNE251401      | 2.5      | 2.40     | 0.1     | 3.0      | 14        | 50       | 6        |
| UNE251501      | 2.5      | 2.40     | 0.1     | 3.0      | 15        | 50       | 6        |
| UNE251601      | 2.5      | 2.40     | 0.1     | 3.0      | 16        | 50       | 6        |
| UNE251801      | 2.5      | 2.40     | 0.1     | 3.0      | 18        | 50       | 6        |
| UNE252001      | 2.5      | 2.40     | 0.1     | 3.0      | 20        | 50       | 6        |
| UNE250802      | 2.5      | 2.40     | 0.2     | 3.0      | 8         | 50       | 6        |
| UNE251002      | 2.5      | 2.40     | 0.2     | 3.0      | 10        | 50       | 6        |
| UNE251202      | 2.5      | 2.40     | 0.2     | 3.0      | 12        | 50       | 6        |
| UNE251402      | 2.5      | 2.40     | 0.2     | 3.0      | 14        | 50       | 6        |
| UNE251502      | 2.5      | 2.40     | 0.2     | 3.0      | 15        | 50       | 6        |
| UNE251602      | 2.5      | 2.40     | 0.2     | 3.0      | 16        | 50       | 6        |
| UNE251802      | 2.5      | 2.40     | 0.2     | 3.0      | 18        | 50       | 6        |
| UNE252002      | 2.5      | 2.40     | 0.2     | 3.0      | 20        | 50       | 6        |
| UNE250803      | 2.5      | 2.40     | 0.3     | 3.0      | 8         | 50       | 6        |
| UNE251003      | 2.5      | 2.40     | 0.3     | 3.0      | 10        | 50       | 6        |
| UNE251203      | 2.5      | 2.40     | 0.3     | 3.0      | 12        | 50       | 6        |
| UNE251403      | 2.5      | 2.40     | 0.3     | 3.0      | 14        | 50       | 6        |
| UNE251503      | 2.5      | 2.40     | 0.3     | 3.0      | 15        | 50       | 6        |
| UNE251603      | 2.5      | 2.40     | 0.3     | 3.0      | 16        | 50       | 6        |
| UNE251803      | 2.5      | 2.40     | 0.3     | 3.0      | 18        | 50       | 6        |
| UNE252003      | 2.5      | 2.40     | 0.3     | 3.0      | 20        | 50       | 6        |
| UNE300801      | 3.0      | 2.90     | 0.1     | 3.0      | 8         | 50       | 6        |
| UNE301001      | 3.0      | 2.90     | 0.1     | 3.0      | 10        | 50       | 6        |
| UNE301201      | 3.0      | 2.90     | 0.1     | 3.0      | 12        | 50       | 6        |
| UNE301401      | 3.0      | 2.90     | 0.1     | 3.0      | 14        | 50       | 6        |
| UNE301501      | 3.0      | 2.90     | 0.1     | 3.0      | 15        | 50       | 6        |
| UNE301601      | 3.0      | 2.90     | 0.1     | 3.0      | 16        | 50       | 6        |
| UNE301801      | 3.0      | 2.90     | 0.1     | 3.0      | 18        | 50       | 6        |
| UNE302001      | 3.0      | 2.90     | 0.1     | 3.0      | 20        | 50       | 6        |
| UNE302201      | 3.0      | 2.90     | 0.1     | 3.0      | 22        | 60       | 6        |
| UNE302501      | 3.0      | 2.90     | 0.1     | 3.0      | 25        | 60       | 6        |
| UNE300802      | 3.0      | 2.90     | 0.2     | 3.0      | 8         | 50       | 6        |
| UNE301002      | 3.0      | 2.90     | 0.2     | 3.0      | 10        | 50       | 6        |
| UNE301202      | 3.0      | 2.90     | 0.2     | 3.0      | 12        | 50       | 6        |
| UNE301402      | 3.0      | 2.90     | 0.2     | 3.0      | 14        | 50       | 6        |
| UNE301502      | 3.0      | 2.90     | 0.2     | 3.0      | 15        | 50       | 6        |
| UNE301602      | 3.0      | 2.90     | 0.2     | 3.0      | 16        | 50       | 6        |
| UNE301802      | 3.0      | 2.90     | 0.2     | 3.0      | 18        | 50       | 6        |
| UNE302002      | 3.0      | 2.90     | 0.2     | 3.0      | 20        | 50       | 6        |
| UNE302202      | 3.0      | 2.90     | 0.2     | 3.0      | 22        | 60       | 6        |
| UNE302502      | 3.0      | 2.90     | 0.2     | 3.0      | 25        | 60       | 6        |
| UNE300803      | 3.0      | 2.90     | 0.3     | 3.0      | 8         | 50       | 6        |
| UNE301003      | 3.0      | 2.90     | 0.3     | 3.0      | 10        | 50       | 6        |
| UNE301203      | 3.0      | 2.90     | 0.3     | 3.0      | 12        | 50       | 6        |
| UNE301403      | 3.0      | 2.90     | 0.3     | 3.0      | 14        | 50       | 6        |
| UNE301503      | 3.0      | 2.90     | 0.3     | 3.0      | 15        | 50       | 6        |
| UNE301603      | 3.0      | 2.90     | 0.3     | 3.0      | 16        | 50       | 6        |
| UNE301803      | 3.0      | 2.90     | 0.3     | 3.0      | 18        | 50       | 6        |
| UNE302003      | 3.0      | 2.90     | 0.3     | 3.0      | 20        | 50       | 6        |
| UNE302203      | 3.0      | 2.90     | 0.3     | 3.0      | 22        | 60       | 6        |
| UNE302503      | 3.0      | 2.90     | 0.3     | 3.0      | 25        | 60       | 6        |
| UNE400601      | 4.0      | 3.88     | 0.1     | 4.0      | 6         | 50       | 6        |
| UNE400801      | 4.0      | 3.88     | 0.1     | 4.0      | 8         | 50       | 6        |
| UNE401001      | 4.0      | 3.88     | 0.1     | 4.0      | 10        | 50       | 6        |
| UNE401201      | 4.0      | 3.88     | 0.1     | 4.0      | 12        | 50       | 6        |
| UNE401601      | 4.0      | 3.88     | 0.1     | 4.0      | 16        | 50       | 6        |
| UNE401801      | 4.0      | 3.88     | 0.1     | 4.0      | 18        | 60       | 6        |
| UNE402001      | 4.0      | 3.88     | 0.1     | 4.0      | 20        | 60       | 6        |
| UNE400602      | 4.0      | 3.88     | 0.2     | 4.0      | 6         | 50       | 6        |
| UNE400802      | 4.0      | 3.88     | 0.2     | 4.0      | 8         | 50       | 6        |
| UNE401002      | 4.0      | 3.88     | 0.2     | 4.0      | 10        | 50       | 6        |
| UNE401202      | 4.0      | 3.88     | 0.2     | 4.0      | 12        | 50       | 6        |
| UNE401602      | 4.0      | 3.88     | 0.2     | 4.0      | 16        | 50       | 6        |
| UNE401802      | 4.0      | 3.88     | 0.2     | 4.0      | 18        | 60       | 6        |
| UNE402002      | 4.0      | 3.88     | 0.2     | 4.0      | 20        | 60       | 6        |
| UNE400603      | 4.0      | 3.88     | 0.3     | 4.0      | 6         | 50       | 6        |
| UNE400803      | 4.0      | 3.88     | 0.3     | 4.0      | 8         | 50       | 6        |
| UNE401003      | 4.0      | 3.88     | 0.3     | 4.0      | 10        | 50       | 6        |
| UNE401203      | 4.0      | 3.88     | 0.3     | 4.0      | 12        | 50       | 6        |
| UNE401603      | 4.0      | 3.88     | 0.3     | 4.0      | 16        | 50       | 6        |
| UNE401803      | 4.0      | 3.88     | 0.3     | 4.0      | 18        | 60       | 6        |
| UNE402003      | 4.0      | 3.88     | 0.3     | 4.0      | 20        | 60       | 6        |

深溝用圓鼻立銑刀  
End Mills

Long Neck · Corner Radius



| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | R角<br>R | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|---------|----------|-----------|----------|----------|
| UNER100401     | 1.0      | 0.95     | 0.1     | 1.5      | 4         | 50       | 4        |
| UNER100501     | 1.0      | 0.95     | 0.1     | 1.5      | 5         | 50       | 4        |
| UNER100601     | 1.0      | 0.95     | 0.1     | 1.5      | 6         | 50       | 4        |
| UNER100801     | 1.0      | 0.95     | 0.1     | 1.5      | 8         | 50       | 4        |
| UNER101001     | 1.0      | 0.95     | 0.1     | 1.5      | 10        | 50       | 4        |
| UNER101201     | 1.0      | 0.95     | 0.1     | 1.5      | 12        | 50       | 4        |
| UNER100402     | 1.0      | 0.95     | 0.2     | 1.5      | 4         | 50       | 4        |
| UNER100502     | 1.0      | 0.95     | 0.2     | 1.5      | 5         | 50       | 4        |
| UNER100602     | 1.0      | 0.95     | 0.2     | 1.5      | 6         | 50       | 4        |
| UNER100802     | 1.0      | 0.95     | 0.2     | 1.5      | 8         | 50       | 4        |
| UNER101002     | 1.0      | 0.95     | 0.2     | 1.5      | 10        | 50       | 4        |
| UNER101202     | 1.0      | 0.95     | 0.2     | 1.5      | 12        | 50       | 4        |
| UNER100403     | 1.0      | 0.95     | 0.3     | 1.5      | 4         | 50       | 4        |
| UNER100503     | 1.0      | 0.95     | 0.3     | 1.5      | 5         | 50       | 4        |
| UNER100603     | 1.0      | 0.95     | 0.3     | 1.5      | 6         | 50       | 4        |
| UNER100803     | 1.0      | 0.95     | 0.3     | 1.5      | 8         | 50       | 4        |
| UNER101003     | 1.0      | 0.95     | 0.3     | 1.5      | 10        | 50       | 4        |
| UNER101203     | 1.0      | 0.95     | 0.3     | 1.5      | 12        | 50       | 4        |
| UNER150401     | 1.5      | 1.44     | 0.1     | 2.0      | 4         | 50       | 4        |
| UNER150501     | 1.5      | 1.44     | 0.1     | 2.0      | 5         | 50       | 4        |
| UNER150601     | 1.5      | 1.44     | 0.1     | 2.0      | 6         | 50       | 4        |
| UNER150801     | 1.5      | 1.44     | 0.1     | 2.0      | 8         | 50       | 4        |
| UNER151001     | 1.5      | 1.44     | 0.1     | 2.0      | 10        | 50       | 4        |
| UNER151201     | 1.5      | 1.44     | 0.1     | 2.0      | 12        | 50       | 4        |
| UNER151401     | 1.5      | 1.44     | 0.1     | 2.0      | 14        | 50       | 4        |
| UNER151601     | 1.5      | 1.44     | 0.1     | 2.0      | 16        | 50       | 4        |
| UNER150402     | 1.5      | 1.44     | 0.2     | 2.0      | 4         | 50       | 4        |
| UNER150502     | 1.5      | 1.44     | 0.2     | 2.0      | 5         | 50       | 4        |
| UNER150602     | 1.5      | 1.44     | 0.2     | 2.0      | 6         | 50       | 4        |
| UNER150802     | 1.5      | 1.44     | 0.2     | 2.0      | 8         | 50       | 4        |
| UNER151002     | 1.5      | 1.44     | 0.2     | 2.0      | 10        | 50       | 4        |
| UNER151202     | 1.5      | 1.44     | 0.2     | 2.0      | 12        | 50       | 4        |
| UNER151402     | 1.5      | 1.44     | 0.2     | 2.0      | 14        | 50       | 4        |
| UNER151602     | 1.5      | 1.44     | 0.2     | 2.0      | 16        | 50       | 4        |
| UNER150403     | 1.5      | 1.44     | 0.3     | 2.0      | 4         | 50       | 4        |
| UNER150503     | 1.5      | 1.44     | 0.3     | 2.0      | 5         | 50       | 4        |
| UNER150603     | 1.5      | 1.44     | 0.3     | 2.0      | 6         | 50       | 4        |
| UNER150803     | 1.5      | 1.44     | 0.3     | 2.0      | 8         | 50       | 4        |
| UNER151003     | 1.5      | 1.44     | 0.3     | 2.0      | 10        | 50       | 4        |
| UNER151203     | 1.5      | 1.44     | 0.3     | 2.0      | 12        | 50       | 4        |
| UNER151403     | 1.5      | 1.44     | 0.3     | 2.0      | 14        | 50       | 4        |
| UNER151603     | 1.5      | 1.44     | 0.3     | 2.0      | 16        | 50       | 4        |
| UNER200601     | 2.0      | 1.92     | 0.1     | 3.0      | 6         | 50       | 4        |
| UNER200801     | 2.0      | 1.92     | 0.1     | 3.0      | 8         | 50       | 4        |
| UNER201001     | 2.0      | 1.92     | 0.1     | 3.0      | 10        | 50       | 4        |
| UNER201201     | 2.0      | 1.92     | 0.1     | 3.0      | 12        | 50       | 4        |
| UNER201401     | 2.0      | 1.92     | 0.1     | 3.0      | 14        | 50       | 4        |
| UNER201501     | 2.0      | 1.92     | 0.1     | 3.0      | 15        | 50       | 4        |
| UNER201601     | 2.0      | 1.92     | 0.1     | 3.0      | 16        | 50       | 4        |
| UNER201801     | 2.0      | 1.92     | 0.1     | 3.0      | 18        | 50       | 4        |
| UNER202001     | 2.0      | 1.92     | 0.1     | 3.0      | 20        | 50       | 4        |
| UNER200602     | 2.0      | 1.92     | 0.2     | 3.0      | 6         | 50       | 4        |
| UNER200802     | 2.0      | 1.92     | 0.2     | 3.0      | 8         | 50       | 4        |
| UNER201002     | 2.0      | 1.92     | 0.2     | 3.0      | 10        | 50       | 4        |
| UNER201202     | 2.0      | 1.92     | 0.2     | 3.0      | 12        | 50       | 4        |
| UNER201402     | 2.0      | 1.92     | 0.2     | 3.0      | 14        | 50       | 4        |
| UNER201502     | 2.0      | 1.92     | 0.2     | 3.0      | 15        | 50       | 4        |
| UNER201602     | 2.0      | 1.92     | 0.2     | 3.0      | 16        | 50       | 4        |
| UNER201802     | 2.0      | 1.92     | 0.2     | 3.0      | 18        | 50       | 4        |
| UNER202002     | 2.0      | 1.92     | 0.2     | 3.0      | 20        | 50       | 4        |
| UNER200603     | 2.0      | 1.92     | 0.3     | 3.0      | 6         | 50       | 4        |
| UNER200803     | 2.0      | 1.92     | 0.3     | 3.0      | 8         | 50       | 4        |

| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | R角<br>R | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|---------|----------|-----------|----------|----------|
| UNER201003     | 2.0      | 1.92     | 0.3     | 3.0      | 10        | 50       | 4        |
| UNER201203     | 2.0      | 1.92     | 0.3     | 3.0      | 12        | 50       | 4        |
| UNER201403     | 2.0      | 1.92     | 0.3     | 3.0      | 14        | 50       | 4        |
| UNER201503     | 2.0      | 1.92     | 0.3     | 3.0      | 15        | 50       | 4        |
| UNER201603     | 2.0      | 1.92     | 0.3     | 3.0      | 16        | 50       | 4        |
| UNER201803     | 2.0      | 1.92     | 0.3     | 3.0      | 18        | 50       | 4        |
| UNER202003     | 2.0      | 1.92     | 0.3     | 3.0      | 20        | 50       | 4        |
| UNER250801     | 2.5      | 2.40     | 0.1     | 3.0      | 8         | 50       | 4        |
| UNER251001     | 2.5      | 2.40     | 0.1     | 3.0      | 10        | 50       | 4        |
| UNER251201     | 2.5      | 2.40     | 0.1     | 3.0      | 12        | 50       | 4        |
| UNER251401     | 2.5      | 2.40     | 0.1     | 3.0      | 14        | 50       | 4        |
| UNER251501     | 2.5      | 2.40     | 0.1     | 3.0      | 15        | 50       | 4        |
| UNER251601     | 2.5      | 2.40     | 0.1     | 3.0      | 16        | 50       | 4        |
| UNER251801     | 2.5      | 2.40     | 0.1     | 3.0      | 18        | 50       | 4        |
| UNER252001     | 2.5      | 2.40     | 0.1     | 3.0      | 20        | 50       | 4        |
| UNER250802     | 2.5      | 2.40     | 0.2     | 3.0      | 8         | 50       | 4        |
| UNER251002     | 2.5      | 2.40     | 0.2     | 3.0      | 10        | 50       | 4        |
| UNER251202     | 2.5      | 2.40     | 0.2     | 3.0      | 12        | 50       | 4        |
| UNER251402     | 2.5      | 2.40     | 0.2     | 3.0      | 14        | 50       | 4        |
| UNER251502     | 2.5      | 2.40     | 0.2     | 3.0      | 15        | 50       | 4        |
| UNER251602     | 2.5      | 2.40     | 0.2     | 3.0      | 16        | 50       | 4        |
| UNER251802     | 2.5      | 2.40     | 0.2     | 3.0      | 18        | 50       | 4        |
| UNER252002     | 2.5      | 2.40     | 0.2     | 3.0      | 20        | 50       | 4        |
| UNER250803     | 2.5      | 2.40     | 0.3     | 3.0      | 8         | 50       | 4        |
| UNER251003     | 2.5      | 2.40     | 0.3     | 3.0      | 10        | 50       | 4        |
| UNER251203     | 2.5      | 2.40     | 0.3     | 3.0      | 12        | 50       | 4        |
| UNER251403     | 2.5      | 2.40     | 0.3     | 3.0      | 14        | 50       | 4        |
| UNER251503     | 2.5      | 2.40     | 0.3     | 3.0      | 15        | 50       | 4        |
| UNER251603     | 2.5      | 2.40     | 0.3     | 3.0      | 16        | 50       | 4        |
| UNER251803     | 2.5      | 2.40     | 0.3     | 3.0      | 18        | 50       | 4        |
| UNER252003     | 2.5      | 2.40     | 0.3     | 3.0      | 20        | 50       | 4        |
| UNER300801     | 3.0      | 2.90     | 0.1     | 4.0      | 8         | 50       | 6        |
| UNER301001     | 3.0      | 2.90     | 0.1     | 4.0      | 10        | 50       | 6        |
| UNER301201     | 3.0      | 2.90     | 0.1     | 4.0      | 12        | 50       | 6        |
| UNER301401     | 3.0      | 2.90     | 0.1     | 4.0      | 14        | 50       | 6        |
| UNER301501     | 3.0      | 2.90     | 0.1     | 4.0      | 15        | 50       | 6        |
| UNER301601     | 3.0      | 2.90     | 0.1     | 4.0      | 16        | 50       | 6        |
| UNER301801     | 3.0      | 2.90     | 0.1     | 4.0      | 18        | 60       | 6        |
| UNER302001     | 3.0      | 2.90     | 0.1     | 4.0      | 20        | 60       | 6        |
| UNER302201     | 3.0      | 2.90     | 0.1     | 4.0      | 22        | 60       | 6        |
| UNER302501     | 3.0      | 2.90     | 0.1     | 4.0      | 25        | 60       | 6        |
| UNER300802     | 3.0      | 2.90     | 0.2     | 4.0      | 8         | 50       | 6        |
| UNER301002     | 3.0      | 2.90     | 0.2     | 4.0      | 10        | 50       | 6        |
| UNER301202     | 3.0      | 2.90     | 0.2     | 4.0      | 12        | 50       | 6        |
| UNER301402     | 3.0      | 2.90     | 0.2     | 4.0      | 14        | 50       | 6        |
| UNER301502     | 3.0      | 2.90     | 0.2     | 4.0      | 15        | 50       | 6        |
| UNER301602     | 3.0      | 2.90     | 0.2     | 4.0      | 16        | 50       | 6        |
| UNER301802     | 3.0      | 2.90     | 0.2     | 4.0      | 18        | 60       | 6        |
| UNER302002     | 3.0      | 2.90     | 0.2     | 4.0      | 20        | 60       | 6        |
| UNER302202     | 3.0      | 2.90     | 0.2     | 4.0      | 22        | 60       | 6        |
| UNER302502     | 3.0      | 2.90     | 0.2     | 4.0      | 25        | 60       | 6        |
| UNER300803     | 3.0      | 2.90     | 0.3     | 4.0      | 8         | 50       | 6        |
| UNER301003     | 3.0      | 2.90     | 0.3     | 4.0      | 10        | 50       | 6        |
| UNER301203     | 3.0      | 2.90     | 0.3     | 4.0      | 12        | 50       | 6        |
| UNER301403     | 3.0      | 2.90     | 0.3     | 4.0      | 14        | 50       | 6        |
| UNER301503     | 3.0      | 2.90     | 0.3     | 4.0      | 15        | 50       | 6        |
| UNER301603     | 3.0      | 2.90     | 0.3     | 4.0      | 16        | 50       | 6        |
| UNER301803     | 3.0      | 2.90     | 0.3     | 4.0      | 18        | 60       | 6        |
| UNER302003     | 3.0      | 2.90     | 0.3     | 4.0      | 20        | 60       | 6        |
| UNER302203     | 3.0      | 2.90     | 0.3     | 4.0      | 22        | 60       | 6        |
| UNER302503     | 3.0      | 2.90     | 0.3     | 4.0      | 25        | 60       | 6        |

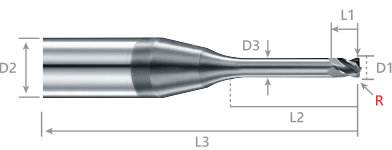


UXE



深溝用圓鼻立銑刀  
End Mills

Long Neck  
Corner Radius



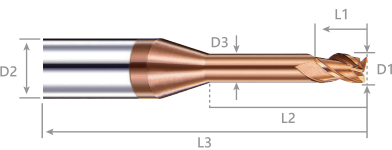
| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | R角<br>R | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|---------|----------|-----------|----------|----------|
| UXE100401      | 1.0      | 0.95     | 0.1     | 1.5      | 4         | 50       | 6        |
| UXE100601      | 1.0      | 0.95     | 0.1     | 1.5      | 6         | 50       | 6        |
| UXE100801      | 1.0      | 0.95     | 0.1     | 1.5      | 8         | 50       | 6        |
| UXE101001      | 1.0      | 0.95     | 0.1     | 1.5      | 10        | 50       | 6        |
| UXE101201      | 1.0      | 0.95     | 0.1     | 1.5      | 12        | 50       | 6        |
| UXE100402      | 1.0      | 0.95     | 0.2     | 1.5      | 4         | 50       | 6        |
| UXE100602      | 1.0      | 0.95     | 0.2     | 1.5      | 6         | 50       | 6        |
| UXE100802      | 1.0      | 0.95     | 0.2     | 1.5      | 8         | 50       | 6        |
| UXE101002      | 1.0      | 0.95     | 0.2     | 1.5      | 10        | 50       | 6        |
| UXE101202      | 1.0      | 0.95     | 0.2     | 1.5      | 12        | 50       | 6        |
| UXE150401      | 1.5      | 1.44     | 0.1     | 1.5      | 4         | 50       | 6        |
| UXE150601      | 1.5      | 1.44     | 0.1     | 1.5      | 6         | 50       | 6        |
| UXE150801      | 1.5      | 1.44     | 0.1     | 1.5      | 8         | 50       | 6        |
| UXE151001      | 1.5      | 1.44     | 0.1     | 1.5      | 10        | 50       | 6        |
| UXE151201      | 1.5      | 1.44     | 0.1     | 1.5      | 12        | 50       | 6        |
| UXE150402      | 1.5      | 1.44     | 0.2     | 1.5      | 4         | 50       | 6        |
| UXE150602      | 1.5      | 1.44     | 0.2     | 1.5      | 6         | 50       | 6        |
| UXE150802      | 1.5      | 1.44     | 0.2     | 1.5      | 8         | 50       | 6        |
| UXE151002      | 1.5      | 1.44     | 0.2     | 1.5      | 10        | 50       | 6        |
| UXE151202      | 1.5      | 1.44     | 0.2     | 1.5      | 12        | 50       | 6        |
| UXE200801      | 2.0      | 1.92     | 0.1     | 2.0      | 8         | 50       | 6        |
| UXE201001      | 2.0      | 1.92     | 0.1     | 2.0      | 10        | 50       | 6        |
| UXE201201      | 2.0      | 1.92     | 0.1     | 2.0      | 12        | 50       | 6        |
| UXE201601      | 2.0      | 1.92     | 0.1     | 2.0      | 16        | 50       | 6        |
| UXE202001      | 2.0      | 1.92     | 0.1     | 2.0      | 20        | 50       | 6        |
| UXE200802      | 2.0      | 1.92     | 0.2     | 2.0      | 8         | 50       | 6        |
| UXE201002      | 2.0      | 1.92     | 0.2     | 2.0      | 10        | 50       | 6        |
| UXE201202      | 2.0      | 1.92     | 0.2     | 2.0      | 12        | 50       | 6        |
| UXE201602      | 2.0      | 1.92     | 0.2     | 2.0      | 16        | 50       | 6        |
| UXE202002      | 2.0      | 1.92     | 0.2     | 2.0      | 20        | 50       | 6        |
| UXE300802      | 3.0      | 2.90     | 0.2     | 3.0      | 8         | 50       | 6        |
| UXE301002      | 3.0      | 2.90     | 0.2     | 3.0      | 10        | 50       | 6        |
| UXE301202      | 3.0      | 2.90     | 0.2     | 3.0      | 12        | 50       | 6        |
| UXE301602      | 3.0      | 2.90     | 0.2     | 3.0      | 16        | 50       | 6        |
| UXE302002      | 3.0      | 2.90     | 0.2     | 3.0      | 20        | 50       | 6        |
| UXE300803      | 3.0      | 2.90     | 0.3     | 3.0      | 8         | 50       | 6        |
| UXE301003      | 3.0      | 2.90     | 0.3     | 3.0      | 10        | 50       | 6        |
| UXE301203      | 3.0      | 2.90     | 0.3     | 3.0      | 12        | 50       | 6        |
| UXE301603      | 3.0      | 2.90     | 0.3     | 3.0      | 16        | 50       | 6        |
| UXE302003      | 3.0      | 2.90     | 0.3     | 3.0      | 20        | 50       | 6        |
| UXE401002      | 4.0      | 3.88     | 0.2     | 4.0      | 10        | 50       | 6        |
| UXE401202      | 4.0      | 3.88     | 0.2     | 4.0      | 12        | 50       | 6        |
| UXE401602      | 4.0      | 3.88     | 0.2     | 4.0      | 16        | 50       | 6        |
| UXE402002      | 4.0      | 3.88     | 0.2     | 4.0      | 20        | 60       | 6        |
| UXE401003      | 4.0      | 3.88     | 0.3     | 4.0      | 10        | 50       | 6        |
| UXE401203      | 4.0      | 3.88     | 0.3     | 4.0      | 12        | 50       | 6        |
| UXE401603      | 4.0      | 3.88     | 0.3     | 4.0      | 16        | 50       | 6        |
| UXE402003      | 4.0      | 3.88     | 0.3     | 4.0      | 20        | 60       | 6        |

LNH



深溝用立銑刀  
End Mills

Long Neck



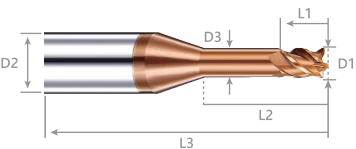
| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|-----------|----------|----------|
| LNH1006        | 1.0      | 0.95     | 1.5      | 6         | 50       | 4        |
| LNH1008        | 1.0      | 0.95     | 1.5      | 8         | 50       | 4        |
| LNH1010        | 1.0      | 0.95     | 1.5      | 10        | 50       | 4        |
| LNH1012        | 1.0      | 0.95     | 1.5      | 12        | 50       | 4        |
| LNH1508        | 1.5      | 1.45     | 2.0      | 8         | 50       | 4        |
| LNH1510        | 1.5      | 1.45     | 2.0      | 10        | 50       | 4        |
| LNH1512        | 1.5      | 1.45     | 2.0      | 12        | 50       | 4        |
| LNH1516        | 1.5      | 1.45     | 2.0      | 16        | 50       | 4        |
| LNH2008        | 2.0      | 1.92     | 3.0      | 8         | 50       | 4        |
| LNH2010        | 2.0      | 1.92     | 3.0      | 10        | 50       | 4        |
| LNH2012        | 2.0      | 1.92     | 3.0      | 12        | 50       | 4        |
| LNH2016        | 2.0      | 1.92     | 3.0      | 16        | 50       | 4        |
| LNH2020        | 2.0      | 1.92     | 3.0      | 20        | 50       | 4        |
| LNH2510        | 2.5      | 2.42     | 3.0      | 10        | 50       | 4        |
| LNH2512        | 2.5      | 2.42     | 3.0      | 12        | 50       | 4        |
| LNH2516        | 2.5      | 2.42     | 3.0      | 16        | 50       | 4        |
| LNH2520        | 2.5      | 2.42     | 3.0      | 20        | 50       | 4        |
| LNH3010        | 3.0      | 2.90     | 4.0      | 10        | 50       | 6        |
| LNH3012        | 3.0      | 2.90     | 4.0      | 12        | 50       | 6        |
| LNH3016        | 3.0      | 2.90     | 4.0      | 16        | 50       | 6        |
| LNH3020        | 3.0      | 2.90     | 4.0      | 20        | 60       | 6        |
| LNH3025        | 3.0      | 2.90     | 4.0      | 25        | 60       | 6        |

LNx



深溝用立銑刀  
End Mills

Long Neck



| 型號<br>Type NO. | 直徑<br>D1 | 頸徑<br>D3 | 刃長<br>L1 | 有效長<br>L2 | 全長<br>L3 | 柄徑<br>D2 |
|----------------|----------|----------|----------|-----------|----------|----------|
| LNx1006        | 1.0      | 0.95     | 1.5      | 6         | 50       | 4        |
| LNx1008        | 1.0      | 0.95     | 1.5      | 8         | 50       | 4        |
| LNx1010        | 1.0      | 0.95     | 1.5      | 10        | 50       | 4        |
| LNx1012        | 1.0      | 0.95     | 1.5      | 12        | 50       | 4        |
| LNx1508        | 1.5      | 1.45     | 2.0      | 8         | 50       | 4        |
| LNx1510        | 1.5      | 1.45     | 2.0      | 10        | 50       | 4        |
| LNx1512        | 1.5      | 1.45     | 2.0      | 12        | 50       | 4        |
| LNx1516        | 1.5      | 1.45     | 2.0      | 16        | 50       | 4        |
| LNx2008        | 2.0      | 1.92     | 3.0      | 8         | 50       | 4        |
| LNx2010        | 2.0      | 1.92     | 3.0      | 10        | 50       | 4        |
| LNx2012        | 2.0      | 1.92     | 3.0      | 12        | 50       | 4        |
| LNx2016        | 2.0      | 1.92     | 3.0      | 16        | 50       | 4        |
| LNx2020        | 2.0      | 1.92     | 3.0      | 20        | 50       | 4        |
| LNx2510        | 2.5      | 2.42     | 3.0      | 10        | 50       | 4        |
| LNx2512        | 2.5      | 2.42     | 3.0      | 12        | 50       | 4        |
| LNx2516        | 2.5      | 2.42     | 3.0      | 16        | 50       | 4        |
| LNx2520        | 2.5      | 2.42     | 3.0      | 20        | 50       | 4        |
| LNx3010        | 3.0      | 2.90     | 4.0      | 10        | 50       | 6        |
| LNx3012        | 3.0      | 2.90     | 4.0      | 12        | 50       | 6        |
| LNx3016        | 3.0      | 2.90     | 4.0      | 16        | 50       | 6        |
| LNx3020        | 3.0      | 2.90     | 4.0      | 20        | 60       | 6        |
| LNx3025        | 3.0      | 2.90     | 4.0      | 25        | 60       | 6        |