



# ENDMILL CARBIDE

# 铝合金整体合金立铣刀

## Solid carbide endmill for aluminum



- 1.超细微粒合金棒材，刃口锋利；
  - 2.用于铝合金加工；
  - 3.也可用于铜、树胶、钢材等材料加工。
- 1.Ultrafine particle alloy bar, sharp cutting edge;  
2.Suitable for aluminum alloy machining;  
3.Also suitable for machining of copper, gum and steel and other materials.

### 技术参数(Technical parameters):

| MODEL        | 直径D1<br>Flute Diameter | 刃长L1<br>Flute Length | 全长L<br>Full length | 柄径D2<br>Shank diameter |
|--------------|------------------------|----------------------|--------------------|------------------------|
| 1*4*3*50     | 1                      | 3                    | 50                 | 4                      |
| 1.5*4*4*50   | 1.5                    | 4                    | 50                 | 4                      |
| 2*4*6*50     | 2                      | 6                    | 50                 | 4                      |
| 2.5*4*8*50   | 2.5                    | 8                    | 50                 | 4                      |
| 3*4*11*50    | 3                      | 11                   | 50                 | 4                      |
| 4*4*13*50    | 4                      | 13                   | 50                 | 4                      |
| 5*6*17*50    | 5                      | 17                   | 50                 | 6                      |
| 6*6*17*50    | 6                      | 17                   | 50                 | 6                      |
| 8*8*22*60    | 8                      | 22                   | 60                 | 8                      |
| 10*10*27*75  | 10                     | 27                   | 75                 | 10                     |
| 12*12*32*75  | 12                     | 32                   | 75                 | 12                     |
| 14*14*37*100 | 14                     | 37                   | 100                | 14                     |
| 16*16*40*100 | 16                     | 40                   | 100                | 16                     |
| 18*18*45*100 | 18                     | 45                   | 100                | 18                     |
| 20*20*48*100 | 20                     | 48                   | 100                | 20                     |
| 3*4*16*75    | 3                      | 16                   | 75                 | 4                      |
| 4*4*16*75    | 4                      | 16                   | 75                 | 4                      |
| 5*6*20*75    | 5                      | 20                   | 75                 | 6                      |
| 6*6*20*75    | 6                      | 20                   | 75                 | 6                      |
| 8*8*35*100   | 8                      | 35                   | 100                | 8                      |
| 10*10*40*100 | 10                     | 40                   | 100                | 10                     |
| 12*12*45*100 | 12                     | 45                   | 100                | 12                     |
| 16*16*70*150 | 16                     | 70                   | 150                | 16                     |

# 合金平底铣刀(2刃、4刃)

## Carbide flat endmill(2Flute,4Flute)



1.超细微粒合金棒材,刃口锋利,切削轻快;

2.用于HRC50度以下钢材,不锈钢加工;

3.也可用于铜、镍合金、钛合金、铸铝等材料加工;

4. TiAlN纳米涂层。

1. Ultrafine particle alloy bar, sharp cutting edge and easy and quick cutting;

2. Suitable for machining of steel and stainless steel below HRC50 degrees

3. Also suitable for machining of copper, nickel alloy, titanium alloy and cast aluminum and so on;

4. TiAlN nano-coating.

## 技术参数(Technical parameters):

| MODEL        | 直径D1<br>Flute Diameter | 刃长L1<br>Flute Length | 全长L<br>Full length | 柄径D2<br>Shank diameter |
|--------------|------------------------|----------------------|--------------------|------------------------|
| 1*4*3*50     | 1                      | 3                    | 50                 | 4                      |
| 1.5*4*4*50   | 1.5                    | 4                    | 50                 | 4                      |
| 2*4*6*50     | 2                      | 6                    | 50                 | 4                      |
| 2.5*4*8*50   | 2.5                    | 8                    | 50                 | 4                      |
| 3*4*8*50     | 3                      | 8                    | 50                 | 4                      |
| 3*6*8*50     | 3                      | 8                    | 50                 | 6                      |
| 4*4*10*50    | 4                      | 10                   | 50                 | 4                      |
| 4*6*10*50    | 4                      | 10                   | 50                 | 6                      |
| 5*6*13*50    | 5                      | 13                   | 50                 | 6                      |
| 6*6*15*50    | 6                      | 15                   | 50                 | 6                      |
| 8*8*25*60    | 8                      | 25                   | 60                 | 8                      |
| 10*10*30*75  | 10                     | 30                   | 75                 | 10                     |
| 12*12*30*75  | 12                     | 30                   | 75                 | 12                     |
| 14*14*40*100 | 14                     | 40                   | 100                | 14                     |
| 16*16*40*100 | 16                     | 40                   | 100                | 16                     |
| 18*18*45*100 | 18                     | 45                   | 100                | 18                     |
| 20*20*45*100 | 20                     | 45                   | 100                | 20                     |
|              |                        |                      |                    |                        |
| 3*4*12*75    | 3                      | 12                   | 75                 | 4                      |
| 4*4*16*75    | 4                      | 16                   | 75                 | 4                      |
| 4*6*16*75    | 4                      | 16                   | 75                 | 6                      |
| 5*6*20*75    | 5                      | 20                   | 75                 | 6                      |
| 6*6*24*75    | 6                      | 24                   | 75                 | 6                      |
| 8*8*32*100   | 8                      | 32                   | 100                | 8                      |
| 10*10*40*100 | 10                     | 40                   | 100                | 10                     |
| 12*12*48*100 | 12                     | 48                   | 100                | 12                     |
| 16*16*64*150 | 16                     | 64                   | 150                | 16                     |
| 20*20*80*150 | 20                     | 80                   | 150                | 20                     |
|              |                        |                      |                    |                        |
| 4*6*16*100   | 4                      | 16                   | 100                | 6                      |
| 6*6*24*100   | 6                      | 24                   | 100                | 6                      |
| 8*8*32*150   | 8                      | 32                   | 150                | 8                      |
| 10*10*40*150 | 10                     | 40                   | 150                | 10                     |
| 12*12*48*150 | 12                     | 48                   | 150                | 12                     |
| 16*16*64*200 | 16                     | 64                   | 200                | 16                     |
| 20*20*80*200 | 20                     | 80                   | 200                | 20                     |

# 合金平底铣刀（2刃、4刃）

## Carbide flat endmill(2Flute,4Flute)



- 1.超细微粒合金棒材，耐磨性强；
  - 2.用于用于HRC60度以下钢材加工；
  - 3.也可用于不锈钢、铸铁等材料加工。
  - 4.复合纳米涂层。
1. Ultrafine particle alloy bar and high wear resistance;
  2. Suitable for machining of steel below HRC60 degrees;
  3. Also suitable for machining of stainless steel and cast iron and so on.
  4. Composite nano-coating.

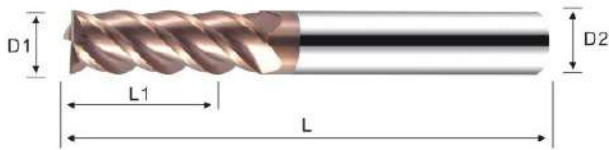
## 技术参数(Technical parameters):

| MODEL        | 直径D1<br>Flute Diameter | 刃长L1<br>Flute Length | 全长L<br>Full length | 柄径D2<br>Shank diameter |
|--------------|------------------------|----------------------|--------------------|------------------------|
| 1*4*3*50     | 1                      | 3                    | 50                 | 4                      |
| 1.5*4*4*50   | 1.5                    | 4                    | 50                 | 4                      |
| 2*4*6*50     | 2                      | 6                    | 50                 | 4                      |
| 2.5*4*8*50   | 2.5                    | 8                    | 50                 | 4                      |
| 3*4*8*50     | 3                      | 8                    | 50                 | 4                      |
| 3*6*8*50     | 3                      | 8                    | 50                 | 6                      |
| 4*4*10*50    | 4                      | 10                   | 50                 | 4                      |
| 4*6*10*50    | 4                      | 10                   | 50                 | 6                      |
| 5*6*13*50    | 5                      | 13                   | 50                 | 6                      |
| 6*6*15*50    | 6                      | 15                   | 50                 | 6                      |
| 8*8*25*60    | 8                      | 25                   | 60                 | 8                      |
| 10*10*30*75  | 10                     | 30                   | 75                 | 10                     |
| 12*12*30*75  | 12                     | 30                   | 75                 | 12                     |
| 14*14*40*100 | 14                     | 40                   | 100                | 14                     |
| 16*16*40*100 | 16                     | 40                   | 100                | 16                     |
| 20*20*45*100 | 20                     | 45                   | 100                | 20                     |
| 3*4*12*75    | 3                      | 12                   | 75                 | 4                      |
| 4*4*16*75    | 4                      | 16                   | 75                 | 4                      |
| 4*6*16*75    | 4                      | 16                   | 75                 | 6                      |
| 5*6*20*75    | 5                      | 20                   | 75                 | 6                      |
| 6*6*24*75    | 6                      | 24                   | 75                 | 6                      |
| 8*8*32*100   | 8                      | 32                   | 100                | 8                      |
| 10*10*40*100 | 10                     | 40                   | 100                | 10                     |
| 12*12*48*100 | 12                     | 48                   | 100                | 12                     |
| 16*16*64*150 | 16                     | 64                   | 150                | 16                     |
| 20*20*80*150 | 20                     | 80                   | 150                | 20                     |
| 4*6*16*100   | 4                      | 16                   | 100                | 6                      |
| 6*6*24*100   | 6                      | 24                   | 100                | 6                      |
| 8*8*32*150   | 8                      | 32                   | 150                | 8                      |
| 10*10*40*150 | 10                     | 40                   | 150                | 10                     |

# 合金平底铣刀（2刃、4刃）

## Carbide flat endmill(2Flute,4Flute)

45° 螺旋  
45° helix



- 1.超细微粒合金棒材，耐磨性强；
  - 2.用于用于HRC60度以下钢材加工；
  - 3.也可用于不锈钢、铸铁等材料加工。
  - 4.复合纳米涂层。
1. Ultrafine particle alloy bar and high wear resistance;  
2. Suitable for machining of steel below HRC60 degrees;  
3. Also suitable for machining of stainless steel and cast iron and so on.  
4. Composite nano-coating.

### 技术参数(Technical parameters):

| MODEL        | 直径D1<br>Flute Diameter | 刃长L1<br>Flute Length | 全长L<br>Full length | 柄径D2<br>Shank diameter |
|--------------|------------------------|----------------------|--------------------|------------------------|
| 1*4*3*50     | 1                      | 3                    | 50                 | 4                      |
| 1.5*4*4*50   | 1.5                    | 4                    | 50                 | 4                      |
| 2*4*6*50     | 2                      | 6                    | 50                 | 4                      |
| 2.5*4*8*50   | 2.5                    | 8                    | 50                 | 4                      |
| 3*4*8*50     | 3                      | 8                    | 50                 | 4                      |
| 3*6*8*50     | 3                      | 8                    | 50                 | 6                      |
| 4*4*10*50    | 4                      | 10                   | 50                 | 4                      |
| 4*6*10*50    | 4                      | 10                   | 50                 | 6                      |
| 5*6*13*50    | 5                      | 13                   | 50                 | 6                      |
| 6*6*15*50    | 6                      | 15                   | 50                 | 6                      |
| 8*8*25*60    | 8                      | 25                   | 60                 | 8                      |
| 10*10*30*75  | 10                     | 30                   | 75                 | 10                     |
| 12*12*30*75  | 12                     | 30                   | 75                 | 12                     |
| 14*14*40*100 | 14                     | 40                   | 100                | 14                     |
| 16*16*40*100 | 16                     | 40                   | 100                | 16                     |
| 20*20*45*100 | 20                     | 45                   | 100                | 20                     |
| 3*4*12*75    | 3                      | 12                   | 75                 | 4                      |
| 4*4*16*75    | 4                      | 16                   | 75                 | 4                      |
| 4*6*16*75    | 4                      | 16                   | 75                 | 6                      |
| 5*6*20*75    | 5                      | 20                   | 75                 | 6                      |
| 6*6*24*75    | 6                      | 24                   | 75                 | 6                      |
| 8*8*32*100   | 8                      | 32                   | 100                | 8                      |
| 10*10*40*100 | 10                     | 40                   | 100                | 10                     |
| 12*12*48*100 | 12                     | 48                   | 100                | 12                     |
| 16*16*64*150 | 16                     | 64                   | 150                | 16                     |
| 20*20*80*150 | 20                     | 80                   | 150                | 20                     |
| 4*6*16*100   | 4                      | 16                   | 100                | 6                      |
| 6*6*24*100   | 6                      | 24                   | 100                | 6                      |
| 8*8*32*150   | 8                      | 32                   | 150                | 8                      |
| 10*10*40*150 | 10                     | 40                   | 150                | 10                     |

# 合金球头铣刀

## Carbide ballnose endmill



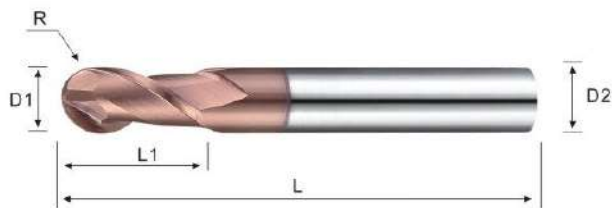
1. 超细微粒合金棒材，耐磨性强；
2. 用于用于HRC50度以下钢材加工；
3. 也可用于不锈钢、铸铁等材料加工。
4. TiAlN纳米涂层。
1. Ultrafine particle alloy bar and high wear resistance;
2. Suitable for machining of steel below HRC50 degrees;
3. Also suitable for machining of stainless steel and cast iron and so on.
4. TiAlN nano-coating.

## 技术参数(Technical parameters):

| MODEL         | 直径D1<br>Flute Diameter | R角R<br>R angle | 刃长L1<br>Flute Length | 全长L<br>Full length | 柄径D2<br>Shank diameter |
|---------------|------------------------|----------------|----------------------|--------------------|------------------------|
| R0.5*4*2*50   | 1                      | R0.5           | 2                    | 50                 | 4                      |
| R0.75*4*4*50  | 1.5                    | R0.75          | 4                    | 50                 | 4                      |
| R1*4*4*50     | 2                      | R1             | 4                    | 50                 | 4                      |
| R1.25*4*6*50  | 2.5                    | R1.25          | 6                    | 50                 | 4                      |
| R1.5*4*6*50   | 3                      | R1.5           | 6                    | 50                 | 4                      |
| R2*4*8*50     | 4                      | R2             | 8                    | 50                 | 4                      |
| R2.5*6*12*50  | 5                      | R2.5           | 12                   | 50                 | 6                      |
| R3*6*12*50    | 6                      | R3             | 12                   | 50                 | 6                      |
| R4*8*16*60    | 8                      | R4             | 16                   | 60                 | 8                      |
| R5*10*20*75   | 10                     | R5             | 20                   | 75                 | 10                     |
| R6*12*25*75   | 12                     | R6             | 25                   | 75                 | 12                     |
| R8*16*30*100  | 16                     | R8             | 30                   | 100                | 16                     |
| R10*20*35*100 | 20                     | R10            | 35                   | 100                | 20                     |
| R1.5*4*6*75   | 3                      | R1.5           | 6                    | 75                 | 4                      |
| R2*4*8*75     | 4                      | R2             | 8                    | 75                 | 4                      |
| R2*6*8*75     | 4                      | R2             | 8                    | 75                 | 6                      |
| R2.5*6*12*75  | 5                      | R2.5           | 12                   | 75                 | 6                      |
| R3*6*12*75    | 6                      | R3             | 12                   | 75                 | 6                      |
| R4*8*16*100   | 8                      | R4             | 16                   | 100                | 8                      |
| R5*10*20*100  | 10                     | R5             | 20                   | 100                | 10                     |
| R6*12*25*100  | 12                     | R6             | 25                   | 100                | 12                     |
| R8*16*30*150  | 16                     | R8             | 30                   | 150                | 16                     |
| R10*20*35*150 | 20                     | R10            | 35                   | 150                | 20                     |
| R2*6*8*100    | 4                      | R2             | 8                    | 100                | 6                      |
| R3*6*12*100   | 6                      | R3             | 12                   | 100                | 6                      |
| R4*8*16*150   | 8                      | R4             | 16                   | 150                | 8                      |
| R5*10*20*150  | 10                     | R5             | 20                   | 150                | 10                     |
| R6*12*25*150  | 12                     | R6             | 25                   | 150                | 12                     |

# 合金球头铣刀

## Carbide ballnose endmill



- 1.超细微粒合金棒材，耐磨性强；

2.用于用于HRC60度以下钢材加工；

3.也可用于不锈钢、铸铁等材料加工。

4.复合纳米涂层。
1. Ultrafine particle alloy bar and high wear resistance;

2. Suitable for machining of steel below HRC60 degrees;

3. Also suitable for machining of stainless steel and cast iron and so on.

4. Composite nano-coating.

### 技术参数(Technical parameters):

| MODEL          | 直径D1<br>Flute Diameter | R角R<br>R angle | 刃长L1<br>Flute Length | 全长L<br>Full length | 柄径D2<br>Shank diameter |
|----------------|------------------------|----------------|----------------------|--------------------|------------------------|
| R0.5*4*1*50    | 1                      | R0.5           | 1                    | 50                 | 4                      |
| R0.75*4*1.5*50 | 1.5                    | R0.75          | 1.5                  | 50                 | 4                      |
| R1*4*2*50      | 2                      | R1             | 2                    | 50                 | 4                      |
| R1.25*4*2.5*50 | 2.5                    | R1.25          | 2.5                  | 50                 | 4                      |
| R1.5*4*3*50    | 3                      | R1.5           | 3                    | 50                 | 4                      |
| R1.5*6*3*50    | 3                      | R1.5           | 3                    | 50                 | 6                      |
| R2*4*4*50      | 4                      | R2             | 4                    | 50                 | 4                      |
| R2*6*4*50      | 4                      | R2             | 4                    | 50                 | 6                      |
| R2.5*6*5*50    | 5                      | R2.5           | 5                    | 50                 | 6                      |
| R3*8*8*60      | 6                      | R3             | 6                    | 50                 | 6                      |
| R4*8*8*60      | 8                      | R4             | 8                    | 60                 | 8                      |
| R5*10*10*75    | 10                     | R5             | 10                   | 75                 | 10                     |
| R6*12*12*75    | 12                     | R6             | 12                   | 75                 | 12                     |
| R8*16*16*100   | 16                     | R8             | 16                   | 100                | 16                     |
| R10*20*20*100  | 20                     | R10            | 20                   | 100                | 20                     |
|                |                        |                |                      |                    |                        |
| R1.5*6*4.5*75  | 3                      | R1.5           | 4.5                  | 75                 | 6                      |
| R2*6*6*75      | 4                      | R2             | 6                    | 75                 | 6                      |
| R2.5*6*7.5*75  | 5                      | R2.5           | 7.5                  | 75                 | 6                      |
| R3*6*9*75      | 6                      | R3             | 9                    | 75                 | 6                      |
| R4*8*12*100    | 8                      | R4             | 12                   | 100                | 8                      |
| R5*10*15*100   | 10                     | R5             | 15                   | 100                | 10                     |
| R6*12*18*100   | 12                     | R6             | 18                   | 100                | 12                     |
| R8*16*24*150   | 16                     | R8             | 24                   | 150                | 16                     |
| R10*20*30*150  | 20                     | R10            | 30                   | 150                | 20                     |
|                |                        |                |                      |                    |                        |
| R2*6*6*100     | 4                      | R2             | 6                    | 100                | 6                      |
| R3*6*9*100     | 6                      | R3             | 9                    | 100                | 6                      |
| R4*8*16*150    | 8                      | R4             | 16                   | 150                | 8                      |
| R5*10*20*150   | 10                     | R5             | 20                   | 150                | 10                     |

# 合金圆角铣刀

## Carbide corner-radius endmill



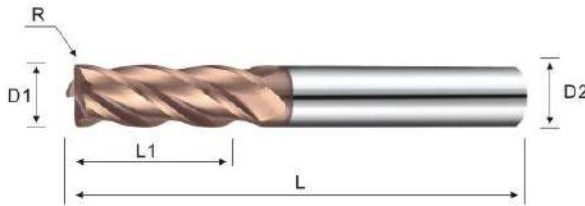
- 1.超细微粒合金棒材，耐磨性强；
- 2.用于用于HRC50度以下钢材加工；
- 3.也可用于不锈钢、铸铁等材料加工。
- 4.TiAlN纳米涂层。
1. Ultrafine particle alloy bar and high wear resistance;
2. Suitable for machining of steel below HRC50 degrees;
3. Also suitable for machining of stainless steel and cast iron and so on.
4. TiAlN nano-coating.

## 技术参数(Technical parameters):

| MODEL            | 直径D1<br>Flute Diameter | R角R<br>R angle | 刃长L1<br>Flute Length | 全长L<br>Full length | 柄径D2<br>Shank diameter |
|------------------|------------------------|----------------|----------------------|--------------------|------------------------|
| 1R0.2*4*2*50     | 1                      | R0.2           | 2                    | 50                 | 4                      |
| 2R0.2*4*4*50     | 2                      | R0.2           | 4                    | 50                 | 4                      |
| 3R0.2*4*6*50     | 3                      | R0.2           | 6                    | 50                 | 4                      |
| 3R0.5*4*6*50     | 3                      | R0.5           | 6                    | 50                 | 4                      |
| 4R0.2*4*8*50     | 4                      | R0.2           | 8                    | 50                 | 4                      |
| 4R0.5*4*8*50     | 4                      | R0.5           | 8                    | 50                 | 4                      |
| 4R1*4*8*50       | 4                      | R1             | 8                    | 50                 | 4                      |
| 6R0.5*6*12*50    | 6                      | R0.5           | 12                   | 50                 | 6                      |
| 6R1*6*12*50      | 6                      | R1             | 12                   | 50                 | 6                      |
| 8R0.5*8*16*60    | 8                      | R0.5           | 16                   | 60                 | 8                      |
| 8R1*8*16*60      | 8                      | R1             | 16                   | 60                 | 8                      |
| 10R0.5*10*20*75  | 10                     | R0.5           | 20                   | 75                 | 10                     |
| 10R1*10*20*75    | 10                     | R1             | 20                   | 75                 | 10                     |
| 12R0.5*12*24*75  | 12                     | R0.5           | 24                   | 75                 | 12                     |
| 12R1*12*24*75    | 12                     | R1             | 24                   | 75                 | 12                     |
| 12R2*12*24*75    | 12                     | R2             | 24                   | 75                 | 12                     |
|                  |                        |                |                      |                    |                        |
| 4R0.2*6*8*75     | 4                      | R0.2           | 8                    | 75                 | 6                      |
| 4R0.5*6*8*75     | 4                      | R0.5           | 8                    | 75                 | 6                      |
| 6R0.5*6*12*100   | 6                      | R0.5           | 12                   | 100                | 6                      |
| 6R1*6*12*100     | 6                      | R1             | 12                   | 100                | 6                      |
| 8R0.5*8*16*100   | 8                      | R0.5           | 16                   | 100                | 8                      |
| 8R1*8*16*100     | 8                      | R1             | 16                   | 100                | 8                      |
| 10R0.5*10*20*100 | 10                     | R0.5           | 20                   | 100                | 10                     |
| 10R1*10*20*100   | 10                     | R1             | 20                   | 100                | 10                     |
| 12R0.5*12*24*100 | 12                     | R0.5           | 24                   | 100                | 12                     |
| 12R1*12*24*100   | 12                     | R1             | 24                   | 100                | 12                     |
| 12R2*12*24*100   | 12                     | R2             | 24                   | 100                | 12                     |
|                  |                        |                |                      |                    |                        |
|                  |                        |                |                      |                    |                        |

# 合金圆角铣刀

## Carbide corner-radius endmill



- 1.超细微粒合金棒材，耐磨性强；
  - 2.用于用于HRC60度以下钢材加工；
  - 3.也可用于不锈钢、铸铁等材料加工。
  - 4.复合纳米涂层。
1. Ultrafine particle alloy bar and high wear resistance;  
2. Suitable for machining of steel below HRC60 degrees;  
3. Also suitable for machining of stainless steel and cast iron and so on.  
4. Composite nano-coating.

### 技术参数(Technical parameters):

| MODEL            | 直径D1<br>Flute Diameter | R角R<br>R angle | 刃长L1<br>Flute Length | 全长L<br>Full length | 柄径D2<br>Shank diameter |
|------------------|------------------------|----------------|----------------------|--------------------|------------------------|
| 3R0.2*4*3*50     | 3                      | R0.2           | 3                    | 50                 | 4                      |
| 3R0.5*4*3*50     | 3                      | R0.5           | 3                    | 50                 | 4                      |
| 4R0.2*4*4*50     | 4                      | R0.2           | 4                    | 50                 | 4                      |
| 4R0.5*4*4*50     | 4                      | R0.5           | 4                    | 50                 | 4                      |
| 4R1*4*4*50       | 4                      | R1             | 4                    | 50                 | 4                      |
| 6R0.5*6*6*50     | 6                      | R0.5           | 6                    | 50                 | 6                      |
| 6R1*6*6*50       | 6                      | R1             | 6                    | 50                 | 6                      |
| 8R0.5*8*8*60     | 8                      | R0.5           | 8                    | 60                 | 8                      |
| 8R1*8*8*60       | 8                      | R1             | 8                    | 60                 | 8                      |
| 10R0.5*10*10*75  | 10                     | R0.5           | 10                   | 75                 | 10                     |
| 10R1*10*10*75    | 10                     | R1             | 10                   | 75                 | 10                     |
| 12R0.5*12*12*75  | 12                     | R0.5           | 12                   | 75                 | 12                     |
| 12R1*12*12*75    | 12                     | R1             | 12                   | 75                 | 12                     |
| 12R2*12*12*75    | 12                     | R2             | 12                   | 75                 | 12                     |
|                  |                        |                |                      |                    |                        |
| 4R0.2*6*4*75     | 4                      | R0.2           | 4                    | 75                 | 6                      |
| 4R0.5*6*4*75     | 4                      | R0.5           | 4                    | 75                 | 6                      |
| 6R0.5*6*6*100    | 6                      | R0.5           | 6                    | 100                | 6                      |
| 6R1*6*6*100      | 6                      | R1             | 6                    | 100                | 6                      |
| 8R0.5*8*8*100    | 8                      | R0.5           | 8                    | 100                | 8                      |
| 8R1*8*8*100      | 8                      | R1             | 8                    | 100                | 8                      |
| 10R0.5*10*10*100 | 10                     | R0.5           | 10                   | 100                | 10                     |
| 10R1*10*10*100   | 10                     | R1             | 10                   | 100                | 10                     |
| 12R0.5*12*12*100 | 12                     | R0.5           | 12                   | 100                | 12                     |
| 12R1*12*12*100   | 12                     | R1             | 12                   | 100                | 12                     |
| 12R2*12*12*100   | 12                     | R2             | 12                   | 100                | 12                     |
|                  |                        |                |                      |                    |                        |
|                  |                        |                |                      |                    |                        |
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