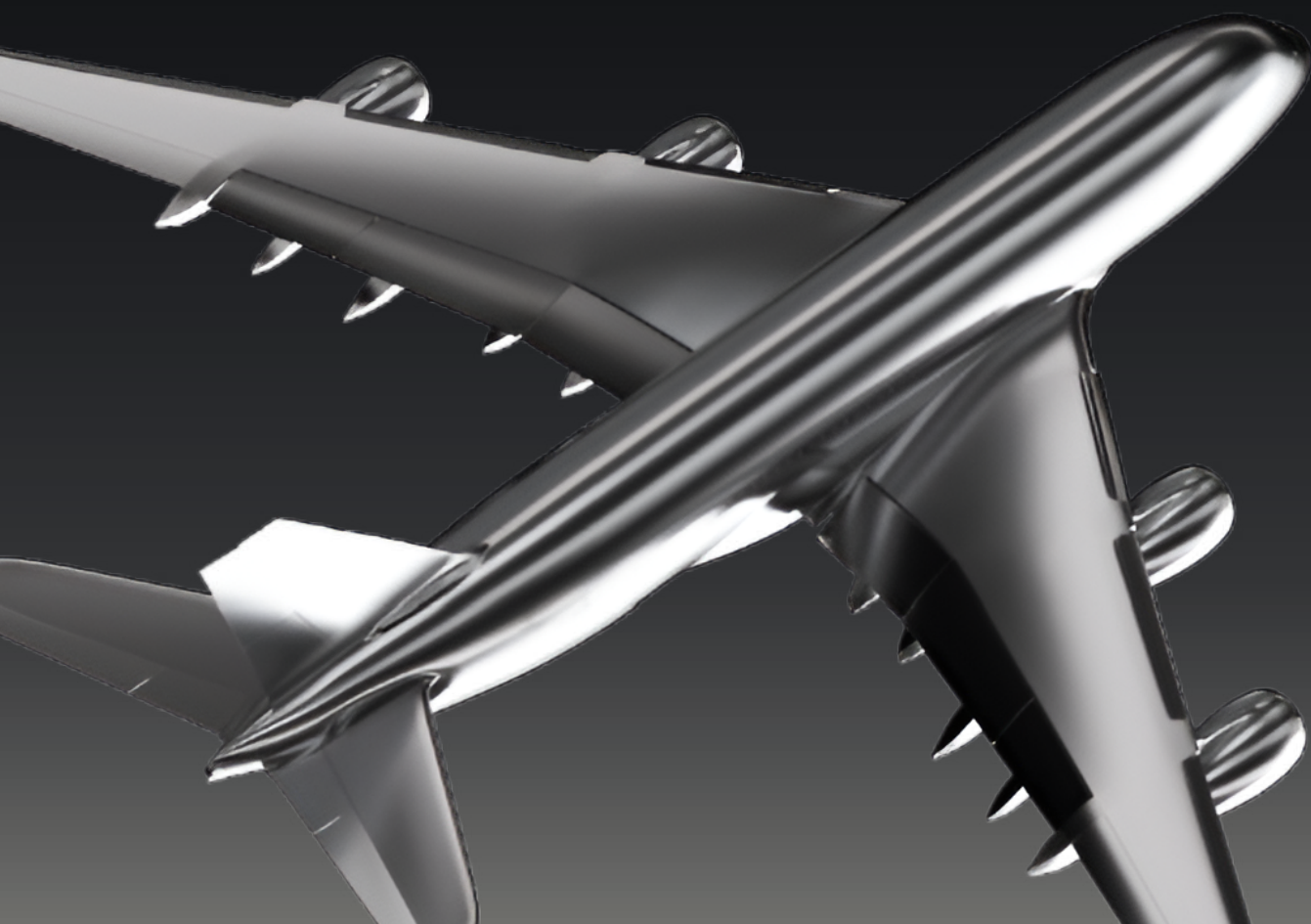


# Специальный режущий инструмент

---

для авиационной  
промышленности





# Фрезы высокопроизводительные SM1-2BN BAP

BAP

P

M

K

N

H

VHM

HA

D

R

I

L

10°

d

A

D

R

I

L

d

B

| Обозначение                 | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|-----------------------------|---------------|---------|---------|----------|
| SM1-2BN-2000 L26-150-PL BAP | 20            | 26      | 150     | 2        |

ФРЕЗЕРОВАНИЕ

2

Фрезерная обработка • Концевые фрезы из твёрдого сплава

# Фрезы высокопроизводительные SM1-4BN BAP

BAP

P

M

K

N

H

VHM

HA

D

R

I

L

10°

d

A

D

R

I

L

d

B

| Обозначение                 | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|-----------------------------|---------------|---------|---------|----------|
| SM1-4BN-0300 MX8-57-PL BAP  | 3             | 8       | 57      | 4        |
| SM1-4BN-0400 M11-57-PL BAP  | 4             | 11      | 57      | 4        |
| SM1-4BN-1000 N22-72-PL BAP  | 10            | 22      | 72      | 4        |
| SM1-4BN-1200 M26-83-PL BAP  | 12            | 26      | 83      | 4        |
| SM1-4BN-1600 N32-92-PL BAP  | 16            | 32      | 92      | 4        |
| SM1-4BN-2000 M38-104-PL BAP | 20            | 38      | 104     | 4        |

ФРЕЗЕРОВАНИЕ

3



# Фрезы высокопроизводительные SM1-4FR BAP

BAP

P

M

K

N

H

VHM

HA

| Обозначение                       | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|-----------------------------------|---------------|---------|---------|----------|
| SM1-4FR0,3-0500 M11-57-PL BAP     | 5             | 11      | 57      | 4        |
| SM1-4FR0,5-0400 M11-57-PL BAP     | 4             | 11      | 57      | 4        |
| SM1-4FR0,5-0600 M10-54-PL BAP     | 6             | 10      | 10      | 4        |
| SM1-4FR0,5-0800 M19-63-PL BAP     | 8             | 19      | 19      | 4        |
| SM1-4FR5,0-A160-1600 XL60-210 BAP | 16            | 60      | 210     | 4        |



# Фрезы высокопроизводительные SM1-4FS BAP

BAP

P

M

K

N

H

VHM

HA

| Обозначение              | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|--------------------------|---------------|---------|---------|----------|
| SM1-4FS-0400 LX10-80 BAP | 4             | 10      | 80      | 4        |



# Фрезы высокопроизводительные SM1-5FS BAP

BAP

P

M

K

N

S

H

VHM

HA

| Обозначение              | D (h10)<br>мм | L<br>мм | L<br>мм | Z<br>шт. |
|--------------------------|---------------|---------|---------|----------|
| SM1-5FS-1600 L75-150 BAP | 16            | 75      | 150     | 5        |



# Фрезы из твёрдого сплава SM1-9FS-1200

BL

P

M

K

N

S

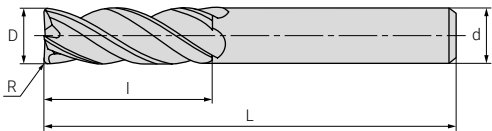
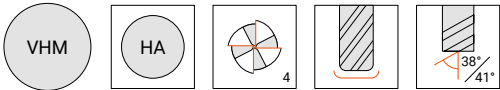
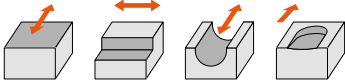
H

| Обозначение               | D<br>мм | d<br>мм | L<br>мм | L<br>мм | C<br>мм | Z<br>шт. |
|---------------------------|---------|---------|---------|---------|---------|----------|
| SM1-9FS-1200 M26-83-BT BL | 12      | 12      | 26      | 83      | -       | 9        |



# Фрезы из твёрдого сплава SM4-4FR-M

BAP

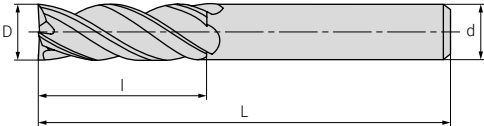
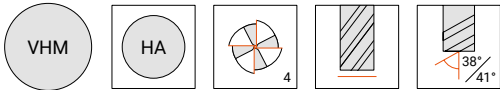
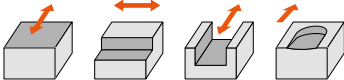
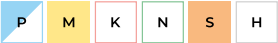


| Обозначение                | D (e8)<br>мм | R<br>мм | d (h6)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|----------------------------|--------------|---------|--------------|---------|---------|----------|
| SM4-4FR0.2-1200 M25-75 BAP | 12           | 0,2     | 12           | 25      | 75      | 4        |
| SM4-4FR0.2-0300 M8-50 BAP  | 3            | 0,2     | 6            | 8       | 50      | 4        |



# Фрезы из твёрдого сплава SM4-4FS-M

BAP/BL

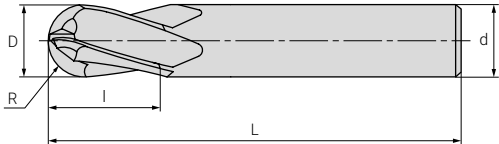
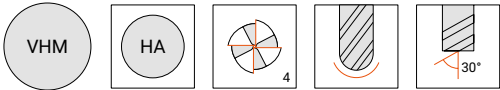
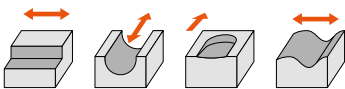


| Обозначение             | D (h10)<br>мм | d (h6)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|-------------------------|---------------|--------------|---------|---------|----------|
| SM4-4FS-1000 M25-75 BAP | 10            | 10           | 25      | 75      | 4        |
| SM4-4FS-0500 L18-65 BAP | 5             | 6            | 18      | 65      | 4        |
| SM4-4FS-0500 M13-57     | 5             | 6            | 13      | 57      | 4        |
| SM4-4FS-0600 M12-50 BAP | 6             | 6            | 12      | 50      | 4        |
| SM4-4FS-0600 M20-55 BL  | 6             | 6            | 20      | 55      | 4        |



Фрезы высокопроизводительные SM4-4BN BL

BL

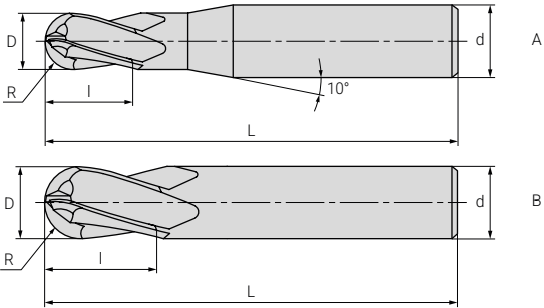
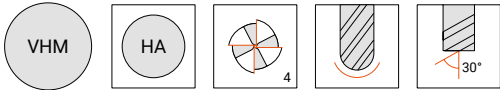
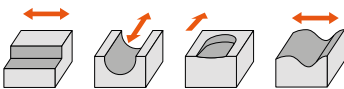


| Обозначение            | D (h10)<br>мм | R<br>мм | d (h6)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|------------------------|---------------|---------|--------------|---------|---------|----------|
| SM4-4BN-0500-M13-57 BL | 3             | 1,5     | 6            | 13      | 57      | 4        |



Фрезы для высокоскоростной обработки SM5-4BN BAP

BAP



| Обозначение                   | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|-------------------------------|---------------|---------|---------|----------|
| SM5-4BN-0300 M10-62 BAP       | 3             | 10      | 62      | 4        |
| SM5-4BN-0400 MX13-60 BAP      | 4             | 13      | 60      | 4        |
| SM5-4BN-0600 M13-57 BAP       | 6             | 13      | 57      | 4        |
| SM5-4BN-0600 M14-60 BAP       | 6             | 14      | 60      | 4        |
| SM5-4BN-0800 L19-100 BAP      | 8             | 19      | 100     | 4        |
| SM5-4BN-0800 M19-63 BAP       | 8             | 19      | 63      | 4        |
| SM5-4BN-0800 M25-75 BAP       | 8             | 25      | 75      | 4        |
| SM5-4BN-1000 M25-75 BAP       | 10            | 25      | 75      | 4        |
| SM5-4BN-1000 N22-72 BAP       | 10            | 22      | 72      | 4        |
| SM5-4BN-1000 XL22-125 BAP     | 10            | 22      | 125     | 4        |
| SM5-4BN-1200 L30-85 BAP       | 12            | 30      | 85      | 4        |
| SM5-4BN-1200 M26-81 BAP       | 12            | 26      | 81      | 4        |
| SM5-4BN-1600 L32-150 BAP      | 16            | 32      | 150     | 4        |
| SM5-4BN-1600 N32-90 BAP       | 16            | 32      | 90      | 4        |
| SM5-4BN-1600 N35-95 BAP       | 16            | 35      | 95      | 4        |
| SM5-4BN-1600 XL35-155 BAP     | 16            | 35      | 155     | 4        |
| SM5-4BN-2000 M40-105 BAP      | 20            | 40      | 105     | 4        |
| SM5-4BN-A78-1000 XL20-140 BAP | 10            | 20      | 140     | 4        |
| SM5-4BN-0600 XL15-110 BAP     | 6             | 15      | 110     | 4        |



# Фрезы для высокоскоростной обработки SM5-4FC BAP

БАР

P

M

K

N

S

H

VHM

HA

| Обозначение              | D (e8)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|--------------------------|--------------|---------|---------|----------|
| SM5-4FC-0300 M11-60 BAP  | 3            | 11      | 60      | 4        |
| SM5-4FC-0300 M8-56 BAP   | 3            | 8       | 56      | 4        |
| SM5-4FC-0400 M12-55 BAP  | 4            | 12      | 55      | 4        |
| SM5-4FC-0400 M13-60 BAP  | 4            | 13      | 60      | 4        |
| SM5-4FC-0400 M8-56 BAP   | 4            | 8       | 56      | 4        |
| SM5-4FC-0500 M17-60 BAP  | 5            | 17      | 60      | 4        |
| SM5-4FC-0800 M23-65 BAP  | 8            | 23      | 65      | 4        |
| SM5-4FC-1000 M25-75 BAP  | 10           | 25      | 75      | 4        |
| SM5-4FC-1200 L30-85 BAP  | 12           | 30      | 85      | 4        |
| SM5-4FC-1600 M35-105 BAP | 16           | 35      | 105     | 4        |
| SM5-4FC-1600 N35-95 BAP  | 16           | 35      | 95      | 4        |
| SM5-4FC-2000 M42-104 BAP | 20           | 42      | 104     | 4        |
| SM5-4FC-2000 M45-110 BAP | 20           | 45      | 110     | 4        |



# Фрезы для высокоскоростной обработки SM5-4FR BAP

БАР

P

M

K

N

S

H

VHM

HA

| Обозначение                      | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|----------------------------------|---------------|---------|---------|----------|
| SM5-4FR0,3-0400 M13-62 BAP       | 4             | 13      | 62      | 4        |
| SM5-4FR0,3-0500 M17-60 BAP       | 5             | 17      | 60      | 4        |
| SM5-4FR0,5-0600 M15-60 BAP       | 6             | 15      | 60      | 4        |
| SM5-4FR0,5-0800 M21-65 BAP       | 8             | 21      | 65      | 4        |
| SM5-4FR0,5-1000 M25-75 BAP       | 10            | 25      | 75      | 4        |
| SM5-4FR0,5-1000 N22-72 BAP       | 10            | 22      | 72      | 4        |
| SM5-4FR0,5-1000 XL25-130 BAP     | 10            | 25      | 130     | 4        |
| SM5-4FR0,5-1200 L28-85 BAP       | 12            | 28      | 85      | 4        |
| SM5-4FR0,7-A83-1200 XL25-150 BAP | 12            | 25      | 150     | 4        |
| SM5-4FR1,0-0600 M13-57 BAP       | 6             | 13      | 57      | 4        |
| SM5-4FR1,0-0600 M15-62 BAP       | 6             | 15      | 62      | 4        |
| SM5-4FR1,0-1000 M25-75 BAP       | 10            | 25      | 75      | 4        |
| SM5-4FR1,0-1200 L30-85 BAP       | 12            | 30      | 85      | 4        |
| SM5-4FR1,0-1600 N35-95 BAP       | 16            | 35      | 95      | 4        |
| SM5-4FR1,0-2000 M45-110 BAP      | 20            | 45      | 110     | 4        |
| SM5-4FR1,5-1200 M26-81 BAP       | 12            | 26      | 81      | 4        |
| SM5-4FR1,5-1600 N32-92 BL        | 16            | 32      | 92      | 4        |
| SM5-4FR2,0-0800 M19-63 BAP       | 8             | 19      | 63      | 4        |
| SM5-4FR2,0-0800 M22-75 BAP       | 8             | 22      | 75      | 4        |
| SM5-4FR2,0-1200 L28-85 BAP       | 12            | 28      | 85      | 4        |

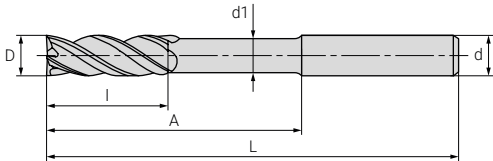
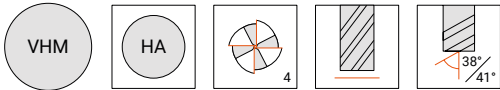
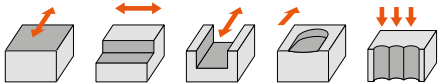


| Обозначение                      | D (h10)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|----------------------------------|---------------|---------|---------|----------|
| SM5-4FR2,0-1200 M26-81 BAP       | 12            | 26      | 81      | 4        |
| SM5-4FR2,0-1600 N32-90 BAP       | 16            | 32      | 90      | 4        |
| SM5-4FR2,0-2000 M45-110 BAP      | 20            | 45      | 110     | 4        |
| SM5-4FR2,0-A30-0800 M20-63 BAP   | 8             | 20      | 63      | 4        |
| SM5-4FR2,0-A35-0800 L15-80 BAP   | 8             | 15      | 80      | 4        |
| SM5-4FR2,0-A45-1000 XL15-120 BAP | 10            | 15      | 120     | 4        |
| SM5-4FR3,0-0800 M22-75 BL        | 8             | 22      | 75      | 4        |
| SM5-4FR3,0-1000 N22-72 BL        | 10            | 22      | 72      | 4        |
| SM5-4FR3,0-1600 N32-90 BAP       | 16            | 32      | 90      | 4        |
| SM5-4FR3,0-1600 N35-95 BAP       | 16            | 35      | 95      | 4        |
| SM5-4FR3,0-2000 M45-110 BAP      | 20            | 45      | 110     | 4        |
| SM5-4FR3,0-A40-1200 L25-85 BAP   | 12            | 25      | 85      | 4        |
| SM5-4FR3,0-A48-1200 XL15-110 BAP | 12            | 15      | 110     | 4        |
| SM5-4FR3,0-A75-1600 M60-120 BAP  | 16            | 60      | 120     | 4        |
| SM5-4FR5,0-1600 L40-140 BAP      | 16            | 40      | 140     | 4        |
| SM5-4FR5,0-2000 M45-110 BAP      | 20            | 45      | 110     | 4        |
| SM5-4FR5,0-A75-2000 XL20-160 BAP | 20            | 20      | 160     | 4        |
| SM5-4FR5,0-A75-2000 XL30-160 BAP | 20            | 30      | 160     | 4        |



Фрезы для высокоскоростной обработки  
SM5-4FS BAP

BAP



| Обозначение                 | D (h10)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|-----------------------------|---------------|---------|---------|----------|
| SM5-4FS-0300 N5-45 BAP      | 3             | 5       | 45      | 4        |
| SM5-4FS-0600 M13-57 BAP     | 6             | 13      | 57      | 4        |
| SM5-4FS-0600 XL15-110 BAP   | 6             | 15      | 110     | 4        |
| SM5-4FS-0800 M19-63 BAP     | 8             | 19      | 63      | 4        |
| SM5-4FS-1000 N22-72 BAP     | 10            | 22      | 72      | 4        |
| SM5-4FS-1200 M26-81 BAP     | 12            | 26      | 81      | 4        |
| SM5-4FS-1400 M26-81 BAP     | 14            | 26      | 81      | 4        |
| SM5-4FS-1600 N32-90 BAP     | 16            | 32      | 90      | 4        |
| SM5-4FS-2000 M38-105 BAP    | 20            | 38      | 105     | 4        |
| SM5-4FS-A60-0800 L28-90 BAP | 8             | 28      | 90      | 4        |



# Фрезы для высокоскоростной обработки SM5-5FR BAP

BAP

P

M

K

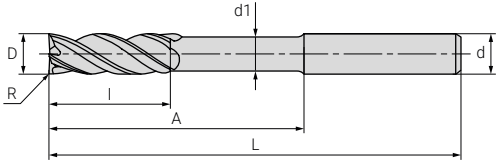
N

S

H

VHM

HA



| Обозначение                  | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|------------------------------|---------------|---------|---------|----------|
| SM5-5FR0,5-2000 L100-150 BAP | 20            | 100     | 150     | 5        |
| SM5-5FR0,5-2000 L105-150 BAP | 20            | 105     | 150     | 5        |
| SM5-5FR3,0-2000 L80-150 BAP  | 20            | 80      | 150     | 5        |



# Фрезы для материалов высокой твердости SM6-4FR BAP

MP

P

M

K

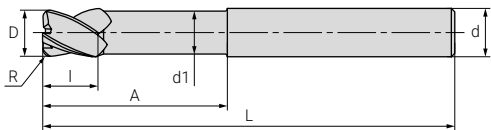
N

S

H

VHM

HA

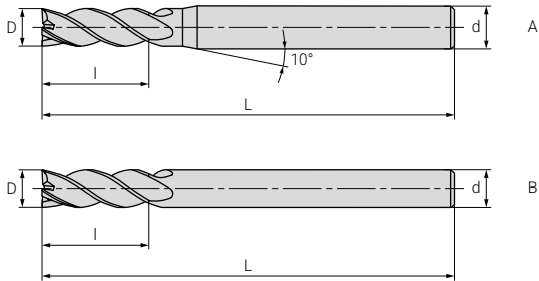
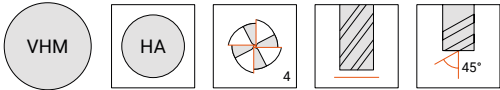
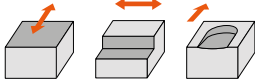


| Обозначение                    | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>мм |
|--------------------------------|---------------|---------|---------|---------|
| SM6-4FR0,2-A15-0500 M8-55 MP   | 5             | 8       | 55      | 4       |
| SM6-4FR1,0-A15-0600 M7-57 BAP  | 6             | 7       | 57      | 4       |
| SM6-4FR1,0-A25-0800 M10-63 BAP | 8             | 10      | 63      | 4       |
| SM6-4FR2,0-A30-0800 M13-65 MP  | 8             | 13      | 65      | 4       |



# Фрезы для материалов высокой твердости SM6-4FS BAP

MP

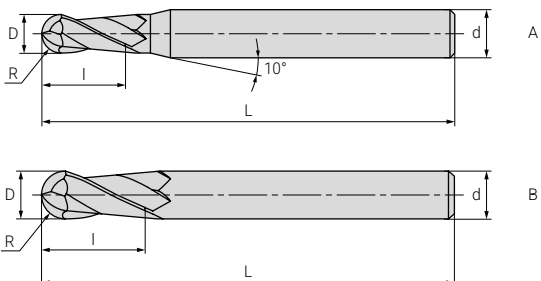
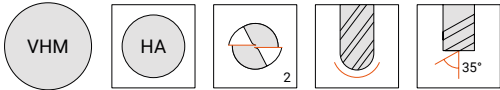
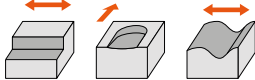


| Обозначение                | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|----------------------------|---------------|---------|---------|----------|
| SM6-4FS-0400 MX11-55 BAP   | 4             | 11      | 55      | 4        |
| SM6-4FS-0400 MX5-55 MP     | 4             | 5       | 55      | 4        |
| SM6-4FS-1200 L35-85 BAP    | 12            | 35      | 85      | 4        |
| SM6-4FS-1600 M45-105 BAP   | 16            | 45      | 105     | 4        |
| SM6-4FS-A38-1200 M12-80 MP | 12            | 12      | 80      | 4        |



# Фрезы для обработки цветных металлов SM7-2BN

Без покрытия

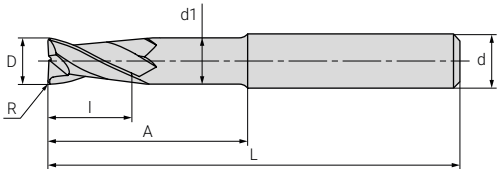
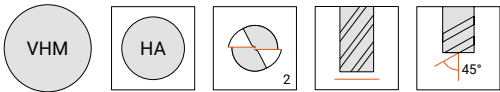
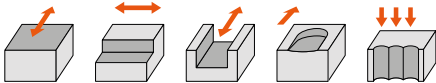


| Обозначение                  | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|------------------------------|---------------|---------|---------|----------|
| SM7-2BN-0400 M13-58          | 4             | 13      | 58      | 2        |
| SM7-2BN-0600 M13-57-PL       | 6             | 13      | 57      | 2        |
| SM7-2BN-0800 M19-63-PL       | 8             | 19      | 63      | 2        |
| SM7-2BN-1200 XL80-150        | 12            | 80      | 150     | 2        |
| SM7-2BN-1600 M34-100         | 16            | 34      | 100     | 2        |
| SM7-2BN-A54-0800 L12-100-PL  | 8             | 12      | 100     | 2        |
| SM7-2BN-A58-0800 XL14-110    | 8             | 14      | 110     | 2        |
| SM7-2BN-A60-0600 XL14-110    | 6             | 14      | 110     | 2        |
| SM7-2BN-A60-1000 XL14-110    | 10            | 14      | 110     | 2        |
| SM7-2BN-A80-1200 XL16-150-PL | 12            | 16      | 150     | 2        |
| SM7-2BN-A80-1600 L20-150-PL  | 16            | 20      | 150     | 2        |
| SM7-2BN-A80-2000 L25-150-PL  | 20            | 25      | 150     | 2        |



# Фрезы для обработки цветных металлов SM7-2FR

Без покрытия

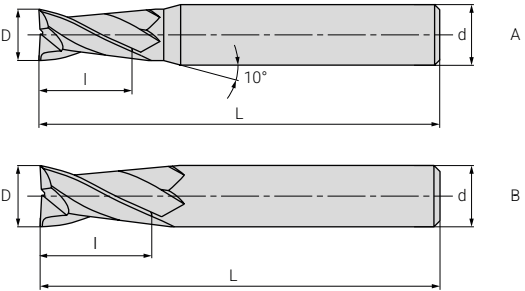
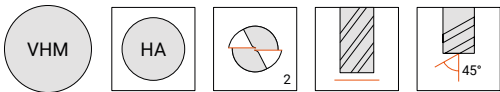
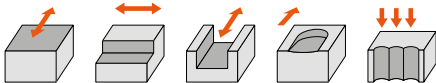


| Обозначение                      | D (e8)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|----------------------------------|--------------|---------|---------|----------|
| SM7-2FR1,0-A40-1200 L16-100-PL   | 12           | 16      | 100     | 2        |
| SM7-2FR1,0-A80-1600 L20-150-PL   | 16           | 20      | 150     | 2        |
| SM7-2FR1,6-A40-2000 M20-100-PL   | 20           | 20      | 100     | 2        |
| SM7-2FR3,0-A85-1200 XL25-150     | 12           | 25      | 150     | 2        |
| SM7-2FR3,0-A85-1600 XL25-160     | 16           | 25      | 160     | 2        |
| SM7-2FR5,0-A80-1600 L20-150-PL   | 16           | 20      | 150     | 2        |
| SM7-2FR5,0-A80-2000 L32-150-PL   | 20           | 32      | 150     | 2        |
| SM7-2FR3,0-A140-2000 XL40-200-PL | 20           | 40      | 200     | 2        |
| SM7-2FR5,0-A150-2000 XL50-200-PL | 20           | 50      | 200     | 2        |



# Фрезы для обработки цветных металлов SM7-2FS

Без покрытия

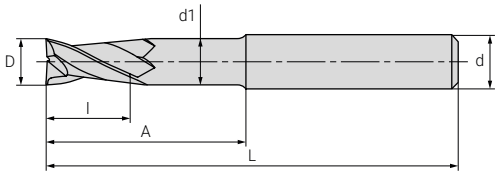
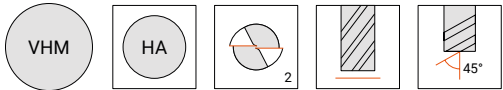
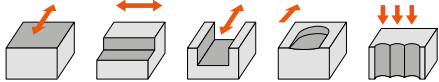


| Обозначение              | D (h10)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|--------------------------|---------------|---------|---------|----------|
| SM7-2FS-0300 M11-60-PL   | 3             | 11      | 60      | 2        |
| SM7-2FS-0400 M13-60-PL   | 4             | 13      | 60      | 2        |
| SM7-2FS-0600 M13-57-PL   | 6             | 13      | 57      | 2        |
| SM7-2FS-0600 M15-60-PL   | 6             | 15      | 60      | 2        |
| SM7-2FS-0800 M19-63-PL   | 8             | 19      | 63      | 2        |
| SM7-2FS-1200 L25-85-PL   | 12            | 25      | 85      | 2        |
| SM7-2FS-1200 L40-100-PL  | 12            | 40      | 100     | 2        |
| SM7-2FS-2000 L80-150     | 20            | 80      | 150     | 2        |
| SM7-2FS-2000 M40-105-PL  | 20            | 40      | 105     | 2        |
| SM7-2FS-0600-PR S6-40-PL | 6             | 6       | 40      | 2        |



# Фрезы для обработки цветных металлов SM7-2FS

Без покрытия

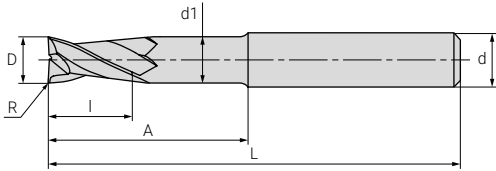
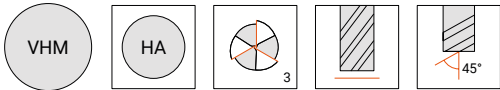


| Обозначение                 | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|-----------------------------|---------------|---------|---------|----------|
| SM7-2FS-A35-1200 L15-100-PL | 12            | 15      | 100     | 2        |
| SM7-2FS-A54-0800 L12-100-PL | 8             | 12      | 100     | 2        |
| SM7-2FS-A54-1000 L12-100-PL | 10            | 12      | 100     | 2        |
| SM7-2FS-A60-0600 XL13-120   | 6             | 13      | 120     | 2        |
| SM7-2FS-A60-0800 XL20-120   | 8             | 20      | 120     | 2        |
| SM7-2FS-A80-2000 L25-150    | 20            | 25      | 150     | 2        |
| SM7-2FS-A85-1200 XL20-160   | 12            | 20      | 160     | 2        |
| SM7-2FS-A85-1600 XL25-160   | 16            | 25      | 160     | 2        |



# Фрезы для обработки цветных металлов SM7-3FR

Без покрытия



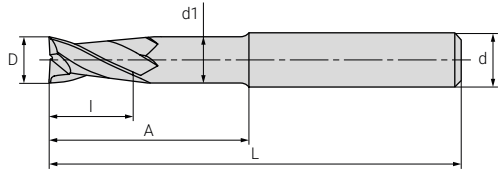
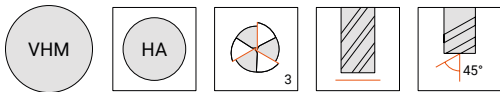
| Обозначение                      | D (h10)<br>мм | I<br>мм | L<br>мм | Z<br>шт. |
|----------------------------------|---------------|---------|---------|----------|
| SM7-3FR1,0-0600 M13-57-PL        | 6             | 13      | 57      | 3        |
| SM7-3FR1,0-A25-0800 M12-75-PL    | 8             | 12      | 75      | 3        |
| SM7-3FR1,0-A35-1000 L14-100      | 10            | 14      | 100     | 3        |
| SM7-3FR1,2-A65-2000 L25-150      | 20            | 25      | 150     | 3        |
| SM7-3FR2,0-0800 M19-63-PL        | 8             | 19      | 63      | 3        |
| SM7-3FR2,0-1200 M26-83           | 12            | 26      | 83      | 3        |
| SM7-3FR2,0-A50-1600 L20-125-PL   | 16            | 20      | 125     | 3        |
| SM7-3FR2,0-A65-2000 L25-150-PL   | 20            | 25      | 150     | 3        |
| SM7-3FR3,0-0800 M19-63-PL        | 8             | 19      | 63      | 3        |
| SM7-3FR3,0-1200 M26-83           | 12            | 26      | 83      | 3        |
| SM7-3FR3,0-1600 N32-92           | 16            | 32      | 92      | 3        |
| SM7-3FR3,0-A125-2000 XL36-170-PL | 20            | 36      | 170     | 3        |
| SM7-3FR3,0-A65-2000 L25-150-PL   | 20            | 25      | 150     | 3        |
| SM7-3FR4,0-1600 N32-90-PL        | 16            | 32      | 90      | 3        |
| SM7-3FR4,0-2000 M38-105-PL       | 20            | 38      | 105     | 3        |
| SM7-3FR5,0-2000 M38-105-PL       | 20            | 38      | 105     | 3        |
| SM7-3FR5,0-A65-2000 L25-150-PL   | 20            | 25      | 150     | 3        |



# Фрезы для обработки цветных металлов SM7-3FS

Без покрытия

- Р
- М
- К
- Н
- С
- Н



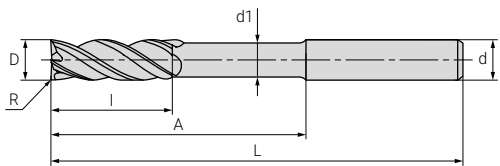
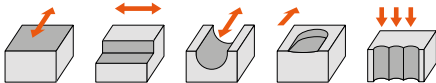
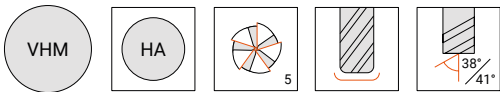
| Обозначение                 | D (h10)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|-----------------------------|---------------|---------|---------|----------|
| SM7-3FS-0800 M19-63-PL      | 8             | 19      | 63      | 3        |
| SM7-3FS-1000 M25-75         | 10            | 25      | 75      | 3        |
| SM7-3FS-1200 M26-81-PL      | 12            | 26      | 81      | 3        |
| SM7-3FS-1200 XL40-150-PL    | 12            | 40      | 150     | 3        |
| SM7-3FS-1600 N32-90-PL      | 16            | 32      | 90      | 3        |
| SM7-3FS-2000 M38-105-PL     | 20            | 38      | 105     | 3        |
| SM7-3FS-A90-2000 L60-150-PL | 20            | 60      | 150     | 3        |



# Фрезы из твёрдого сплава SM4-5FR BAP

BAP

- Р
- М
- К
- Н
- С
- Н



| Обозначение                    | D (h10)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|--------------------------------|---------------|---------|---------|----------|
| SM4-5FR3,0-A80-2000 L24-140 BL | 20            | 24      | 140     | 5        |
| SM4-5FR4,0-1800 XL90-165 BAP   | 18            | 90      | 165     | 5        |



# Фрезы из твёрдого сплава SM4-5FR BAP

BAP

P

M

K

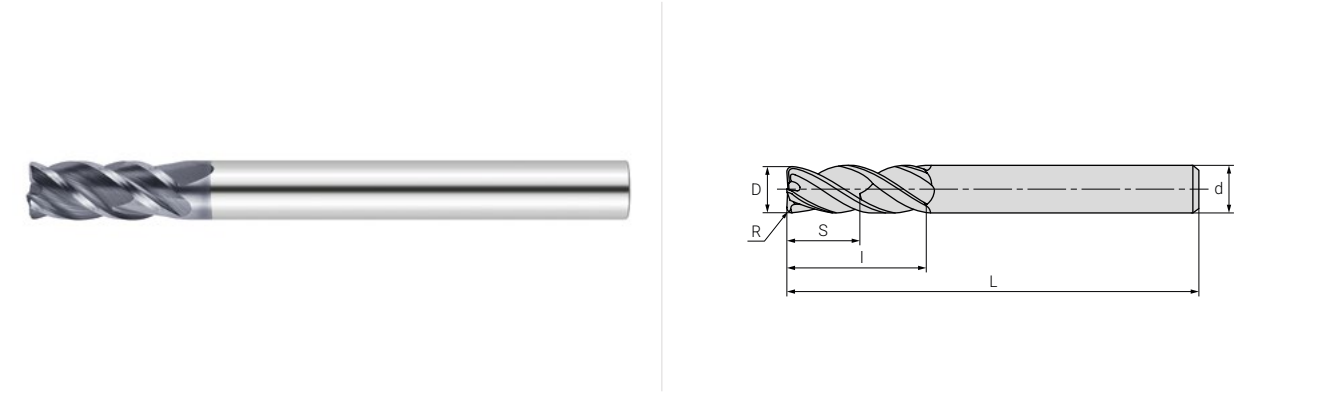
N

S

H

VHM

HA



| Обозначение                  | D (h10)<br>мм | L<br>мм | I<br>мм | Z<br>шт. |
|------------------------------|---------------|---------|---------|----------|
| SM4-5FR4,0-1800 XL90-165 BAP | 18            | 165     | 90      | 5        |



# Фрезы из твёрдого сплава SM5-2BN BAP

BAP

P

M

K

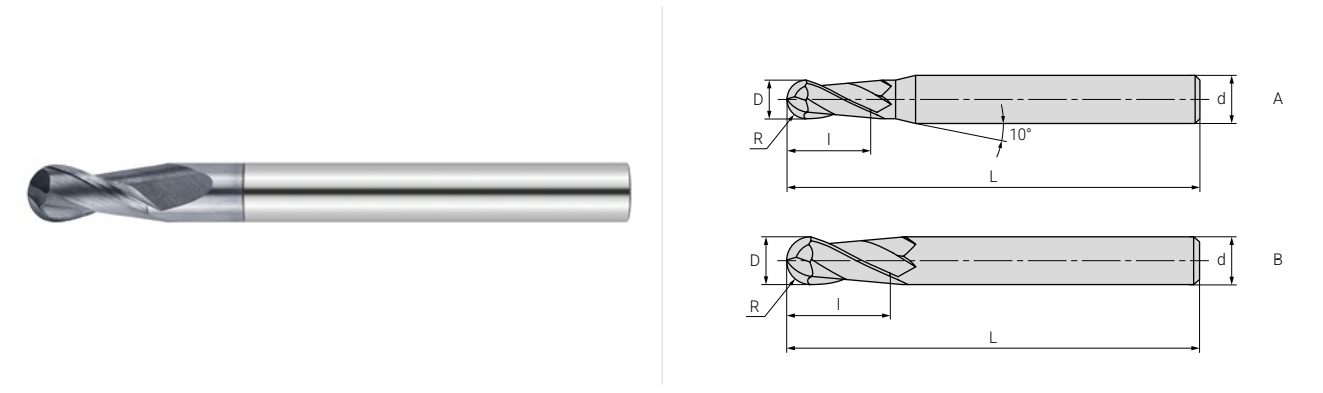
N

S

H

VHM

HA



| Обозначение              | D (h10)<br>мм | L<br>мм | I<br>мм | Z<br>шт. |
|--------------------------|---------------|---------|---------|----------|
| SM5-2BN-2000 L30-150 BAP | 20            | 150     | 30      | 2        |



# Фрезы из твёрдого сплава SM7-2FC

Без покрытия

Р

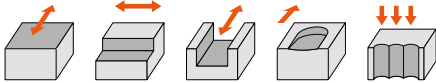
М

К

N

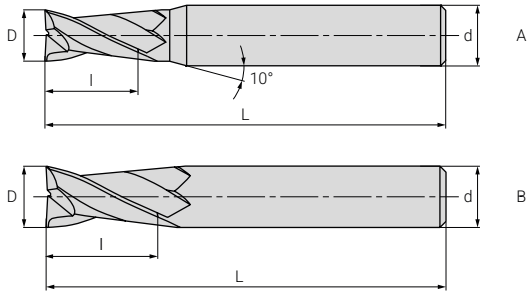
S

Н



VHM

HA



| Обозначение             | D (h10)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|-------------------------|---------------|---------|---------|----------|
| SM7-2FC-1600 M35-100-PL | 16            | 35      | 100     | 2        |



# Развёртки из цельного твёрдого сплава с левым направлением спирали SR1-S6H7

Без покрытия

Р

М

К

N

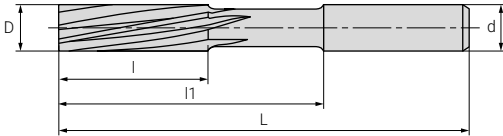
S

Н

VHM

HA

H7



| Обозначение                    | D (h10)<br>мм | l<br>мм | L<br>мм | Z<br>шт. |
|--------------------------------|---------------|---------|---------|----------|
| SR1-S6H7-10.000 L35-250L       | 10            | 35      | 250     | 6        |
| SR1-S8H7-15.000-14 LZ50-182GTL | 15            | 50      | 182     | 8        |



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