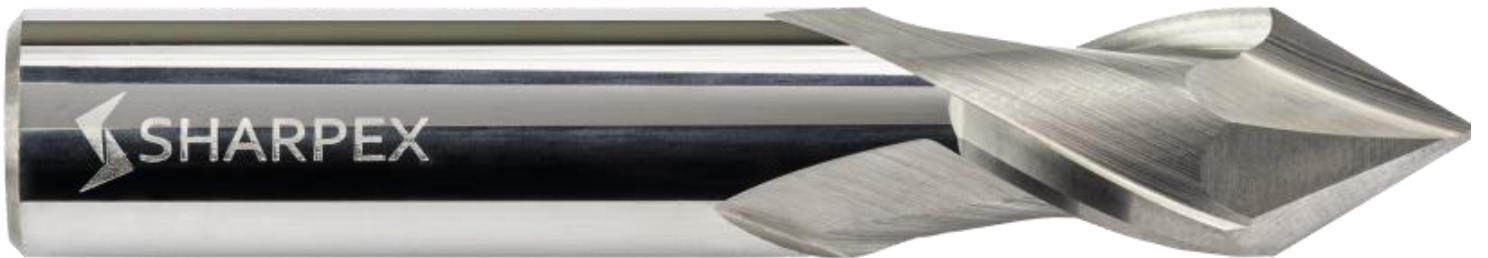
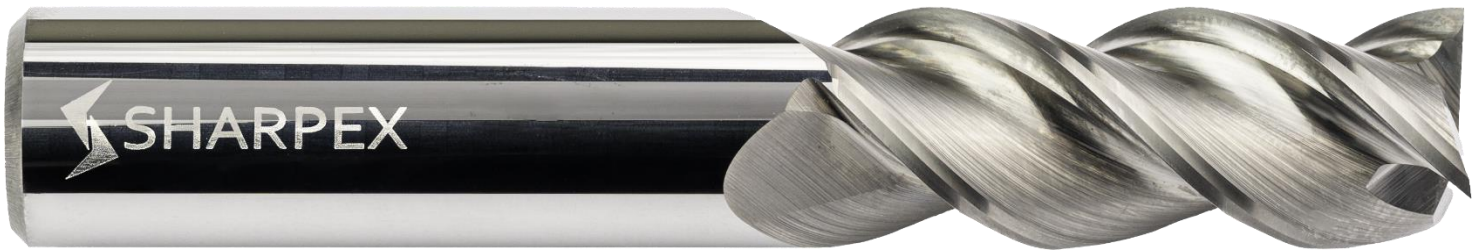
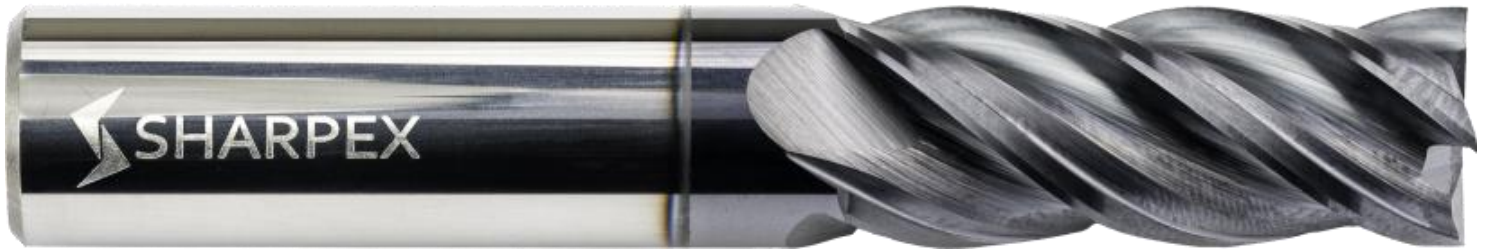




SHARPEX

CATALOG 2024



High performance for general purpose machining

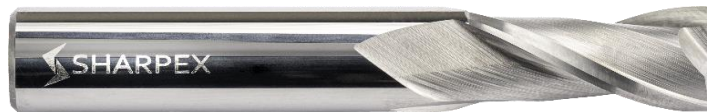
- High quality micro grain carbide
- With coating or uncoated
- To machined ferrous materials and non ferrous materials
- Can be made with different configurations like square end, corner radius, ball nose and with an angle .





CARBIDE END MILLS

- Standart length
- General machining
- Square end
- Uncoated or with TiALN coating



| 2F REGULAR | | | | |
|---------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH21-1612 | SH21A-1612 | 1/4 | 0.750 | 2.5 |
| SH21-2013 | SH21A-2013 | 5/16 | 0.812 | 3.0 |
| SH21-2414 | SH21A-2414 | 3/8 | 0.875 | 3.0 |
| SH21-2816 | SH21A-2816 | 7/16 | 1.000 | 3.0 |
| SH21-3216 | SH21A-3216 | 1/2 | 1.000 | 3.0 |
| SH21-4020 | SH21A-4020 | 5/8 | 1.250 | 3.5 |
| SH21-4824 | SH21A-4824 | 3/4 | 1.500 | 4.0 |
| SH21-5624 | SH21A-5624 | 7/8 | 1.500 | 4.0 |
| SH21-6424 | SH21A-6424 | 1 | 1.500 | 4.0 |

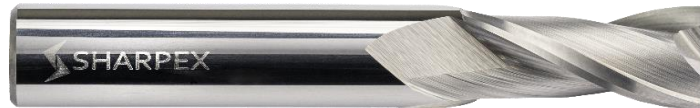
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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- General machining
- With radius
- Uncoated or with TiALN coating



| 2F REGULAR WITH RADIUS | | | | |
|------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH21-1612R015 | SH21A-1612R015 | 1/4 | 0.750 | 2.5 |
| SH21-2013R015 | SH21A-2013R015 | 5/16 | 0.812 | 3.0 |
| SH21-2414R015 | SH21A-2414R015 | 3/8 | 0.875 | 3.0 |
| SH21-2816R030 | SH21A-2816R030 | 7/16 | 1.000 | 3.0 |
| SH21-3216R030 | SH21A-3216R030 | 1/2 | 1.000 | 3.0 |
| SH21-4020R030 | SH21A-4020R030 | 5/8 | 1.250 | 3.5 |
| SH21-4824R030 | SH21A-4824R030 | 3/4 | 1.500 | 4.0 |
| SH21-5624R030 | SH21A-5624R030 | 7/8 | 1.500 | 4.0 |
| SH21-6424R030 | SH21A-6424R030 | 1 | 1.500 | 4.0 |

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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- General machining
- Square end
- Uncoated or with TiALN coating



| 4F REGULAR | | | | |
|---------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH41-1612 | SH41A-1612 | 1/4 | 0.750 | 2.5 |
| SH41-2013 | SH41A-2013 | 5/16 | 0.812 | 3.0 |
| SH41-2414 | SH41A-2414 | 3/8 | 0.875 | 3.0 |
| SH41-2816 | SH41A-2816 | 7/16 | 1.000 | 3.0 |
| SH41-3216 | SH41A-3216 | 1/2 | 1.000 | 3.0 |
| SH41-4020 | SH41A-4020 | 5/8 | 1.250 | 3.5 |
| SH41-4824 | SH41A-4824 | 3/4 | 1.500 | 4.0 |
| SH41-5624 | SH41A-5624 | 7/8 | 1.500 | 4.0 |
| SH41-6424 | SH41A-6424 | 1 | 1.500 | 4.0 |

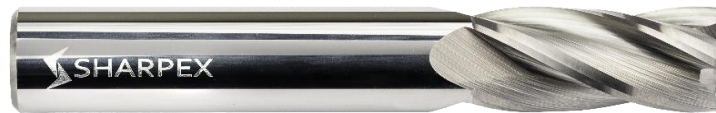
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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- General machining
- With radius
- Uncoated or with TiALN coating



| 4F REGULAR WITH RADIUS | | | | |
|------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH41-1612R015 | SH41A-1612R015 | 1/4 | 0.750 | 2.5 |
| SH41-2013R015 | SH41A-2013R015 | 5/16 | 0.812 | 3.0 |
| SH41-2414R015 | SH41A-2414R015 | 3/8 | 0.875 | 3.0 |
| SH41-2816R030 | SH41A-2816R030 | 7/16 | 1.000 | 3.0 |
| SH41-3216R030 | SH41A-3216R030 | 1/2 | 1.000 | 3.0 |
| SH41-4020R030 | SH41A-4020R030 | 5/8 | 1.250 | 3.5 |
| SH41-4824R030 | SH41A-4824R030 | 3/4 | 1.500 | 4.0 |
| SH41-5624R030 | SH41A-5624R030 | 7/8 | 1.500 | 4.0 |
| SH41-6424R030 | SH41A-6424R030 | 1 | 1.500 | 4.0 |

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CARBIDE END MILLS

- Standart length
- General machining
- Ball nose
- Uncoated or with TiALN coating



| 2F BALL NOSE REGULAR | | | | |
|----------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH21-1612B | SH21A-1612B | 1/4 | 0.750 | 2.5 |
| SH21-2013B | SH21A-2013B | 5/16 | 0.812 | 3.0 |
| SH21-2414B | SH21A-2414B | 3/8 | 0.875 | 3.0 |
| SH21-2816B | SH21A-2816B | 7/16 | 1.000 | 3.0 |
| SH21-3216B | SH21A-3216B | 1/2 | 1.000 | 3.0 |
| SH21-4020B | SH21A-4020B | 5/8 | 1.250 | 3.5 |
| SH21-4824B | SH21A-4824B | 3/4 | 1.500 | 4.0 |
| SH21-5624B | SH21A-5624B | 7/8 | 1.500 | 4.0 |
| SH21-6424B | SH21A-6424B | 1 | 1.500 | 4.0 |

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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- General machining
- Ball nose
- Uncoated or with TiALN coating



| 4F BALL NOSE REGULAR | | | | |
|----------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH41-1612B | SH41A-1612B | 1/4 | 0.750 | 2.5 |
| SH41-2013B | SH41A-2013B | 5/16 | 0.812 | 3.0 |
| SH41-2414B | SH41A-2414B | 3/8 | 0.875 | 3.0 |
| SH41-2816B | SH41A-2816B | 7/16 | 1.000 | 3.0 |
| SH41-3216B | SH41A-3216B | 1/2 | 1.000 | 3.0 |
| SH41-4020B | SH41A-4020B | 5/8 | 1.250 | 3.5 |
| SH41-4824B | SH41A-4824B | 3/4 | 1.500 | 4.0 |
| SH41-5624B | SH41A-5624B | 7/8 | 1.500 | 4.0 |
| SH41-6424B | SH41A-6424B | 1 | 1.500 | 4.0 |

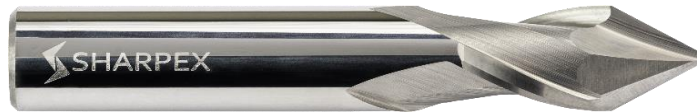
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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- General machining
- 60°
- Uncoated or TiALN coating



| 2F DRILL MILL 60° REGULAR | | | | |
|---------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH21-1612A60 | SH21A-1612A60 | 1/4 | 0.750 | 2.5 |
| SH21-2013A60 | SH21A-2013A60 | 5/16 | 0.812 | 3.0 |
| SH21-2414A60 | SH21A-2414A60 | 3/8 | 0.875 | 3.0 |
| SH21-2816A60 | SH21A-2816A60 | 7/16 | 1.000 | 3.0 |
| SH21-3216A60 | SH21A-3216A60 | 1/2 | 1.000 | 3.0 |
| SH21-4020A60 | SH21A-4020A60 | 5/8 | 1.250 | 3.5 |
| SH21-4824A60 | SH21A-4824A60 | 3/4 | 1.500 | 4.0 |
| SH21-5624A60 | SH21A-5624A60 | 7/8 | 1.500 | 4.0 |
| SH21-6424A60 | SH21A-6424A60 | 1 | 1.500 | 4.0 |

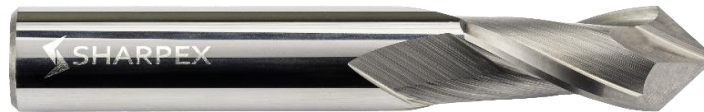
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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- General machining
- 90°
- Uncoated or TiALN coating



| 2F DRILL MILL 90° REGULAR | | | | |
|---------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH21-1612A90 | SH21A-1612A90 | 1/4 | 0.750 | 2.5 |
| SH21-2013A90 | SH21A-2013A90 | 5/16 | 0.812 | 3.0 |
| SH21-2414A90 | SH21A-2414A90 | 3/8 | 0.875 | 3.0 |
| SH21-2816A90 | SH21A-2816A90 | 7/16 | 1.000 | 3.0 |
| SH21-3216A90 | SH21A-3216A90 | 1/2 | 1.000 | 3.0 |
| SH21-4020A90 | SH21A-4020A90 | 5/8 | 1.250 | 3.5 |
| SH21-4824A90 | SH21A-4824A90 | 3/4 | 1.500 | 4.0 |
| SH21-5624A90 | SH21A-5624A90 | 7/8 | 1.500 | 4.0 |
| SH21-6424A90 | SH21A-6424A90 | 1 | 1.500 | 4.0 |

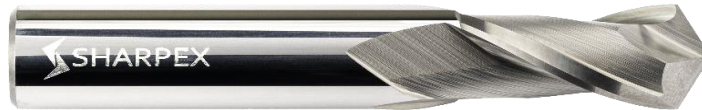
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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- General machining
- 120°
- Uncoated or TiALN coating



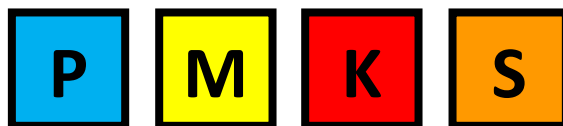
| 2F DRILL MILL 120° REGULAR | | | | |
|----------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH21-1612A120 | SH21A-1612A120 | 1/4 | 0.750 | 2.5 |
| SH21-2013A120 | SH21A-2013A120 | 5/16 | 0.812 | 3.0 |
| SH21-2414A120 | SH21A-2414A120 | 3/8 | 0.875 | 3.0 |
| SH21-2816A120 | SH21A-2816A120 | 7/16 | 1.000 | 3.0 |
| SH21-3216A120 | SH21A-3216A120 | 1/2 | 1.000 | 3.0 |
| SH21-4020A120 | SH21A-4020A120 | 5/8 | 1.250 | 3.5 |
| SH21-4824A120 | SH21A-4824A120 | 3/4 | 1.500 | 4.0 |
| SH21-5624A120 | SH21A-5624A120 | 7/8 | 1.500 | 4.0 |
| SH21-6424A120 | SH21A-6424A120 | 1 | 1.500 | 4.0 |

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PROUDLY MADE IN CANADA !

High performance for roughing and finishing

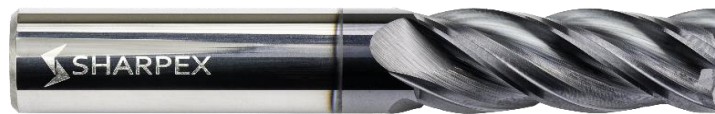
- High quality micro grain carbide
- Coated or uncoated
- For machining of ferrous materials
- Can be made square end or with a radius
- Variable helix and variable pitch to eliminated vibrations for and excellent machining





CARBIDE END MILLS

- Standart length
- Variable helix
- To machine exotic materials
- Square end
- Coating TiALN



| 4F VARIABLE HELIX REGULAR | | | | |
|---------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH41V-1612 | SH41VA-1612 | 1/4 | 0.750 | 2.5 |
| SH41V-2013 | SH41VA-2013 | 5/16 | 0.812 | 3.0 |
| SH41V-2416 | SH41VA-2416 | 3/8 | 1.000 | 3.0 |
| SH41V-2816 | SH41VA-2816 | 7/16 | 1.000 | 3.0 |
| SH41V-3220 | SH41VA-3220 | 1/2 | 1.250 | 3.0 |
| SH41V-4021 | SH41VA-4021 | 5/8 | 1.312 | 3.5 |
| SH41V-4826 | SH41VA-4826 | 3/4 | 1.625 | 4.0 |
| SH41V-5626 | SH41VA-5626 | 7/8 | 1.625 | 4.0 |
| SH41V-6426 | SH41VA-6426 | 1 | 1.625 | 4.0 |

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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- Variable helix
- To machine exotic materials
- With radius
- Coating TiALN



| 4F VARIABLE HELIX REGULAR WITH RADIUS | | | | |
|---------------------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH41V-1612R015 | SH41VA-1612R015 | 1/4 | 0.750 | 2.5 |
| SH41V-2013R015 | SH41VA-2013R015 | 5/16 | 0.812 | 3.0 |
| SH41V-2416R015 | SH41VA-2416R015 | 3/8 | 1.000 | 3.0 |
| SH41V-2816R030 | SH41VA-2816R030 | 7/16 | 1.000 | 3.0 |
| SH41V-3220R030 | SH41VA-3220R030 | 1/2 | 1.250 | 3.0 |
| SH41V-4021R030 | SH41VA-4021R030 | 5/8 | 1.312 | 3.5 |
| SH41V-4826R030 | SH41VA-4826R030 | 3/4 | 1.625 | 4.0 |
| SH41V-5626R030 | SH41VA-5626R030 | 7/8 | 1.625 | 4.0 |
| SH41V-6426R030 | SH41VA-6426R030 | 1 | 1.625 | 4.0 |

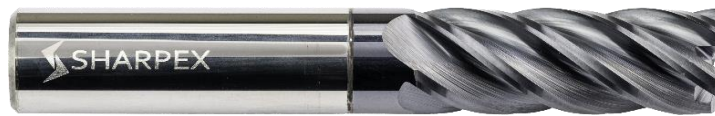
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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- Variable helix
- To machine exotic materials
- Square end
- Coating TiALN



| 5F VARIABLE HELIX REGULAR | | | | |
|---------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH51V-1612 | SH51VA-1612 | 1/4 | 0.750 | 2.5 |
| SH51V-2013 | SH51VA-2013 | 5/16 | 0.812 | 3.0 |
| SH51V-2416 | SH51VA-2416 | 3/8 | 1.000 | 3.0 |
| SH51V-2816 | SH51VA-2816 | 7/16 | 1.000 | 3.0 |
| SH51V-3220 | SH51VA-3220 | 1/2 | 1.250 | 3.0 |
| SH51V-4021 | SH51VA-4021 | 5/8 | 1.312 | 3.5 |
| SH51V-4826 | SH51VA-4826 | 3/4 | 1.625 | 4.0 |
| SH51V-5626 | SH51VA-5626 | 7/8 | 1.625 | 4.0 |
| SH51V-6426 | SH51VA-6426 | 1 | 1.625 | 4.0 |

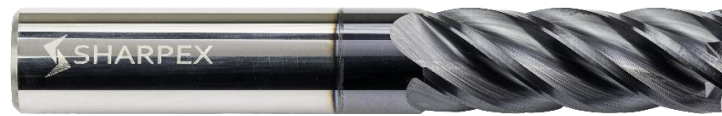
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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- Variable helix
- To machine exotic materials
- With radius
- Coating TiALN



| 5F VARIABLE HELIX REGULAR WITH RADIUS | | | | |
|---------------------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH51V-1612R015 | SH51VA-1612R015 | 1/4 | 0.750 | 2.5 |
| SH51V-2013R015 | SH51VA-2013R015 | 5/16 | 0.812 | 3.0 |
| SH51V-2416R015 | SH51VA-2416R015 | 3/8 | 1.000 | 3.0 |
| SH51V-2816R030 | SH51VA-2816R030 | 7/16 | 1.000 | 3.0 |
| SH51V-3220R030 | SH51VA-3220R030 | 1/2 | 1.250 | 3.0 |
| SH51V-4021R030 | SH51VA-4021R030 | 5/8 | 1.312 | 3.5 |
| SH51V-4826R030 | SH51VA-4826R030 | 3/4 | 1.625 | 4.0 |
| SH51V-5626R030 | SH51VA-5626R030 | 7/8 | 1.625 | 4.0 |
| SH51V-6426R030 | SH51VA-6426R030 | 1 | 1.625 | 4.0 |

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PROUDLY MADE IN CANADA !

High performance for aluminum

- High quality micro grain carbide
- With coating or uncoated
- To machined non-ferrous materials
- Can be made square end or with a radius
- Variable helix to eliminate vibrations for an excellent machining





CARBIDE END MILLS

- Standart length
- Variable helix
- To machine aluminum and non-ferrous materials
- Square end
- Uncoated, ZRN or DLC can be applied on demand



| 2F VARIABLE HELIX REGULAR | | | | |
|---------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH21V-1612 | SH21VA-1612 | 1/4 | 0.750 | 2.5 |
| SH21V-2013 | SH21VA-2013 | 5/16 | 0.812 | 3.0 |
| SH21V-2416 | SH21VA-2416 | 3/8 | 1.000 | 3.0 |
| SH21V-2816 | SH21VA-2816 | 7/16 | 1.000 | 3.0 |
| SH21V-3220 | SH21VA-3220 | 1/2 | 1.250 | 3.0 |
| SH21V-4021 | SH21VA-4021 | 5/8 | 1.312 | 3.5 |
| SH21V-4826 | SH21VA-4826 | 3/4 | 1.625 | 4.0 |
| SH21V-5626 | SH21VA-5626 | 7/8 | 1.625 | 4.0 |
| SH21V-6426 | SH21VA-6426 | 1 | 1.625 | 4.0 |

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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- Variable helix
- To machine aluminum and non-ferrous materials
- With radius
- Uncoated, ZRN or DLC can be applied on demand



| 2F VARIABLE HELIX WITH RADIUS REGULAR | | | | |
|---------------------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH21V-1612R015 | SH21VA-1612R015 | 1/4 | 0.750 | 2.5 |
| SH21V-2013R015 | SH21VA-2013R015 | 5/16 | 0.812 | 3.0 |
| SH21V-2416R015 | SH21VA-2416R015 | 3/8 | 1.000 | 3.0 |
| SH21V-2816R030 | SH21VA-2816R030 | 7/16 | 1.000 | 3.0 |
| SH21V-3220R030 | SH21VA-3220R030 | 1/2 | 1.250 | 3.0 |
| SH21V-4021R030 | SH21VA-4021R030 | 5/8 | 1.312 | 3.5 |
| SH21V-4826R030 | SH21VA-4826R030 | 3/4 | 1.625 | 4.0 |
| SH21V-5626R030 | SH21VA-5626R030 | 7/8 | 1.625 | 4.0 |
| SH21V-6426R030 | SH21VA-6426R030 | 1 | 1.625 | 4.0 |

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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- Variable helix
- To machine aluminum and non-ferrous materials
- Square end
- Uncoated, ZRN or DLC can be applied on demand



| 3F VARIABLE HELIX REGULAR | | | | |
|---------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH31V-1612 | SH31VA-1612 | 1/4 | 0.750 | 2.5 |
| SH31V-2013 | SH31VA-2013 | 5/16 | 0.812 | 3.0 |
| SH31V-2416 | SH31VA-2416 | 3/8 | 1.000 | 3.0 |
| SH31V-2816 | SH31VA-2816 | 7/16 | 1.000 | 3.0 |
| SH31V-3220 | SH31VA-3220 | 1/2 | 1.250 | 3.0 |
| SH31V-4021 | SH31VA-4021 | 5/8 | 1.312 | 3.5 |
| SH31V-4826 | SH31VA-4826 | 3/4 | 1.625 | 4.0 |
| SH31V-5626 | SH31VA-5626 | 7/8 | 1.625 | 4.0 |
| SH31V-6426 | SH31VA-6426 | 1 | 1.625 | 4.0 |

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PROUDLY MADE IN CANADA !



CARBIDE END MILLS

- Standart length
- Variable helix
- To machine aluminum and non-ferrous materials
- With radius
- Uncoated, ZRN or DLC can be applied on demand



| 3F VARIABLE HELIX WITH RADIUS REGULAR | | | | |
|---------------------------------------|-------------------|----------|---------------|--------------|
| Code uncoated | Code with coating | Diameter | Length of cut | Total length |
| SH31V-1612R015 | SH31VA-1612R015 | 1/4 | 0.750 | 2.5 |
| SH31V-2013R015 | SH31VA-2013R015 | 5/16 | 0.812 | 3.0 |
| SH31V-2416R015 | SH31VA-2416R015 | 3/8 | 1.000 | 3.0 |
| SH31V-2816R030 | SH31VA-2816R030 | 7/16 | 1.000 | 3.0 |
| SH31V-3220R030 | SH31VA-3220R030 | 1/2 | 1.250 | 3.0 |
| SH31V-4021R030 | SH31VA-4021R030 | 5/8 | 1.312 | 3.5 |
| SH31V-4826R030 | SH31VA-4826R030 | 3/4 | 1.625 | 4.0 |
| SH31V-5626R030 | SH31VA-5626R030 | 7/8 | 1.625 | 4.0 |
| SH31V-6426R030 | SH31VA-6426R030 | 1 | 1.625 | 4.0 |

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