

# CARBIDE REAMERS


| | |
|---|---|
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| Drill Reamer | F07 |
| Spiral Reamer | F08 |
| Taper Reamer | F09 |
| Customized Reamer | F10 - F12 |

## Carbide Reamer Manufacturer



Carbide reamers are versatile metalworking tools. Made of strong alloy material for superior durability and precision, it excels at cutting, reaming and drilling a variety of materials. These reamers are effective in machining metals such as aluminum, steel and cast iron, ensuring high-precision cuts when used on machine tools.

Carbide reamers are valued for their precision, making them ideal for high-precision applications. Their adaptability allows customization to the specific needs of various industries such as machine building, automotive, aerospace, mold making and electronics. Their efficiency and excellent cutting performance make them indispensable in the market in these areas.

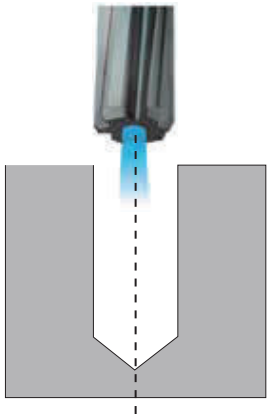
- Durable alloy materials maintain cutting edge sharpness.
- Stable performance in high-speed cutting for efficient material removal.
- Suitable for various materials reducing production costs.
- Tailored to specific machining needs.
- Longer lifespan means fewer replacements
- Achieve high-quality, accurate workpieces.

## Coolant

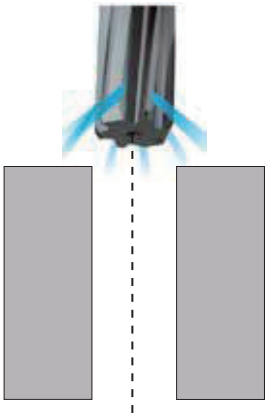
Coolant provide effective cooling and lubrication in high-speed, high-precision reaming applications. They help reduce cutting temperatures, improve cutting performance, extend tool life, and maintain a clean and stable cutting zone.

**Coolant Mechanism by Application**

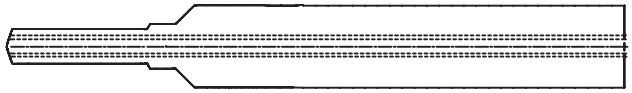
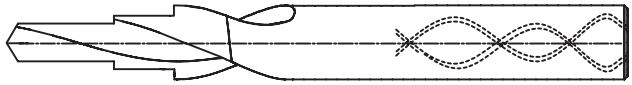
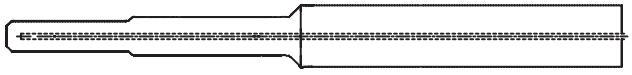
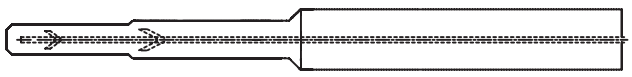
For Blind Holes (Center Coolant)



For Through Holes



## Common Forms of Coolant Holes

| | |
|---|---|
|  | Double straight coolant hole |
|  | Double spiral coolant hole |
|  | Single coolant hole |
|  | Single straight both side coolant hole |

## Workpiece Meterial Group

| | | | |
|---|---|---|---|
| P | Steel | K | Cast Iron |
| H | Hardness Steels (35-65HRC) | S | Special Alloys |
| M | Stainless Steels | N | Non-ferrous |

## Meaning Of Icons

| | | | |
|---|---|---|---|
|  | The reamer is used for machining tapered holes (with customizable angles). | DLC | The diamond-like coating is black in color and suitable for non-ferrous metal machining. |
|  | The reamer is used for machining blind holes. | AlTiSiN | A bronze-colored, high-hardness coating suitable for processing hardened steel. |
|  | The reamer is used for machining through holes. | TiALCrN | Black-colored, suitable for machining cast iron and regular iron components. |
|   | The internal coolant holes of the reamer are double straight holes. | CARBIDE | High performance solid carbide materied |
|   | The internal coolant holes of the reamer is a single straight hole. | | |

## Standard Reamer Series



F05 • Straight Reamer
F06 • Straight Reamer
F07 • Drill Reamer
F08 • Spiral Flutes Reamer
F09 • Taper Reamer

## Customized Reamer Series



F11 • Customized reamers
F12 • Customized reamers

## Straight Reamer




- Suitable for: Various molds and various industrial parts.
- Workpiece material: Processing of gray cast iron, ductile iron,stainless steel, alloy steel and other common materials.
- Special sizes, shank diameters, flute lengths, step reamers, coating, etc. available as specials.



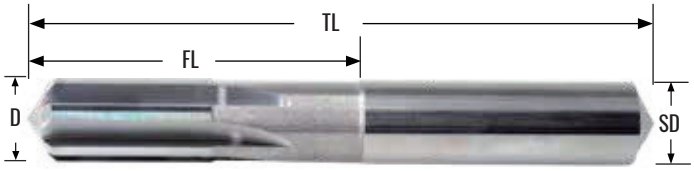

| Order No. | D [mm] | FL [mm] | TL [mm] | SD h6 [mm] |
|---|---|---|---|---|
| SRA-D4.0 | 4.0 | 20 | 56 | 3.5 |
| SRA-D4.5 | 4.5 | 22 | 63 | 4.0 |
| SRA-D5.0 | 5.0 | 22 | 63 | 4.0 |
| SRA-D5.5 | 5.5 | 22 | 63 | 5.0 |
| SRA-D6.0 | 6.0 | 22 | 63 | 5.0 |
| SRA-D6.5 | 6.5 | 22 | 63 | 5.0 |
| SRA-D7.0 | 7.0 | 25 | 71 | 6.0 |
| SRA-D7.5 | 7.5 | 25 | 71 | 6.0 |
| SRA-D8.0 | 8.0 | 25 | 71 | 6.0 |
| SRA-D8.5 | 8.5 | 25 | 71 | 8.0 |
| SRA-D9.0 | 9.0 | 25 | 71 | 8.0 |
| SRA-D9.5 | 9.5 | 25 | 71 | 8.0 |
| SRA-D10.0 | 10.0 | 25 | 71 | 8.0 |
| SRA-D10.5 | 10.5 | 28 | 80 | 10.0 |
| SRA-D11.0 | 11.0 | 28 | 80 | 10.0 |
| SRA-D11.5 | 11.5 | 28 | 80 | 10.0 |
| SRA-D12.0 | 12.0 | 28 | 80 | 10.0 |

| Order No. | D [mm] | FL [mm] | TL [mm] | SD h6 [mm] |
|---|---|---|---|---|
| SRA-D12.5 | 12.5 | 28 | 80 | 10.0 |
| SRA-D13.0 | 13.0 | 28 | 80 | 10.0 |
| SRA-D13.5 | 13.5 | 32 | 90 | 12.5 |
| SRA-D14.0 | 14.0 | 32 | 90 | 12.5 |
| SRA-D14.4 | 14.5 | 32 | 80 | 12.5 |
| SRA-D15.0 | 15.0 | 32 | 90 | 12.5 |
| SRA-D15.5 | 15.5 | 32 | 90 | 12.5 |
| SRA-D16.0 | 16.0 | 32 | 90 | 12.5 |
| SRA-D16.5 | 16.5 | 32 | 90 | 12.5 |
| SRA-D17.0 | 17.0 | 32 | 90 | 16.0 |
| SRA-D17.5 | 17.5 | 36 | 100 | 16.0 |
| SRA-D18.0 | 18.0 | 36 | 100 | 16.0 |
| SRA-D18.5 | 18.5 | 36 | 100 | 16.0 |
| SRA-D19.0 | 19.0 | 36 | 100 | 16.0 |
| SRA-D19.5 | 19.5 | 36 | 100 | 16.0 |
| SRA-D20.0 | 20.0 | 36 | 100 | 16.0 |

## Order Note

- Most of tools on the list are in store.
- Please inquiry or order us with production code.
- For the item which not on the list pls contact our sales to get the quote.

## Straight Reamer




- Suitable for: Various molds and various industrial parts.
- Workpiece material: Processing of gray cast iron, ductile iron,stainless steel, alloy steel and other common materials.
- Special sizes, shank diameters, flute lengths, step reamers, coating, etc. available as specials.

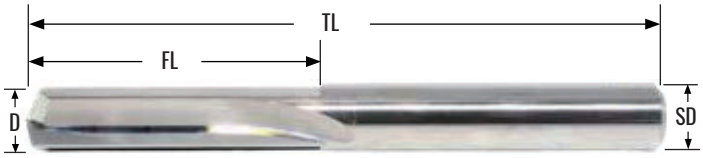



| Order No. | D [mm] | FL [mm] | TL [mm] | TL [mm] | SD h6 [mm] |
|---|---|---|---|---|---|
| SRB-D4.0 | 4 | 4 | 50 | 20 | 4 |
| SRB-D5.0 | 5 | 5 | 60 | 22 | 4 |
| SRB-D6.0 | 6 | 6 | 60 | 22 | 6 |
| SRB-D7.0 | 7 | 7 | 70 | 25 | 6 |
| SRB-D8.0 | 8 | 8 | 70 | 25 | 6 |
| SRB-D9.0 | 9 | 9 | 70 | 25 | 6 |
| SRB-D10.0 | 10 | 10 | 70 | 25 | 6 |
| SRB-D11.0 | 11 | 11 | 80 | 28 | 6 |
| SRB-D12.0 | 12 | 12 | 80 | 28 | 6 |
| SRB-D13.0 | 13 | 13 | 80 | 28 | 6 |
| SRB-D14.0 | 14 | 14 | 90 | 32 | 6 |
| SRB-D15.0 | 15 | 15 | 90 | 32 | 6 |
| SRB-D16.0 | 16 | 16 | 90 | 32 | 6 |
| SRB-D17.0 | 17 | 17 | 90 | 32 | 6 |
| SRB-D18.0 | 18 | 18 | 100 | 36 | 6 |
| SRB-D19.0 | 19 | 19 | 100 | 36 | 6 |
| SRB-D20.0 | 20 | 20 | 100 | 36 | 6 |

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## Drill Reamer




- Suitable for: Various molds and various industrial parts.
- Workpiece material: Processing of gray cast iron, ductile iron,stainless steel, alloy steel and other common materials.
- Special sizes, shank diameters, flute lengths, step reamers, coating, etc. available as specials.



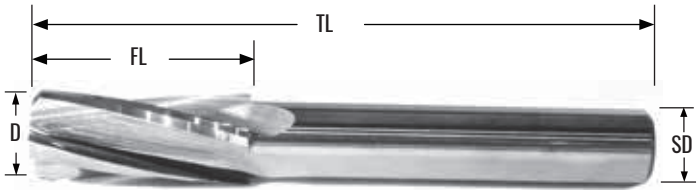

| Order No. | D [mm] | FL [mm] | TL [mm] | SD h6 [mm] |
|---|---|---|---|---|
| SRC-D3.0 | 3.0 | 16 | 45 | 3.0 |
| SRC-D3.5 | 3.5 | 20 | 50 | 3.5 |
| SRC-D4.0 | 4.0 | 22 | 50 | 4.0 |
| SRC-D4.5 | 4.5 | 24 | 60 | 4.5 |
| SRC-D5.0 | 5.0 | 26 | 60 | 5.0 |
| SRC-D5.5 | 5.5 | 28 | 60 | 5.5 |
| SRC-D6.0 | 6.0 | 28 | 60 | 6.0 |
| SRC-D6.5 | 6.5 | 31 | 70 | 6.5 |
| SRC-D7.0 | 7.0 | 31 | 70 | 7.0 |
| SRC-D7.5 | 7.5 | 31 | 70 | 7.5 |

| Order No. | D [mm] | FL [mm] | TL [mm] | SD h6 [mm] |
|---|---|---|---|---|
| SRC-D8.0 | 8.0 | 37 | 80 | 8.0 |
| SRC-D8.5 | 8.5 | 37 | 80 | 8.5 |
| SRC-D9.0 | 9.0 | 40 | 80 | 9.0 |
| SRC-D9.5 | 9.5 | 40 | 80 | 9.5 |
| SRC-D10.0 | 10.0 | 43 | 90 | 10.0 |
| SRC-D11.0 | 11.0 | 47 | 100 | 11.0 |
| SRC-D12.0 | 12.0 | 51 | 100 | 12.0 |
| SRC-D13.0 | 13.0 | 51 | 100 | 13.0 |
| SRC-D14.0 | 14.0 | 54 | 105 | 14.0 |
| SRC-D15.0 | 15.0 | 56 | 110 | 15.0 |
| SRC-D16.0 | 16.0 | 58 | 115 | 16.0 |

## Order Note

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## Spiral Flutes Reamer




- Suitable for: Various molds and various industrial parts.
- Workpiece material: Processing of gray cast iron, ductile iron,stainless steel, alloy steel and other common materials.
- Special sizes, shank diameters, flute lengths, step reamers, coating, etc. available as specials.



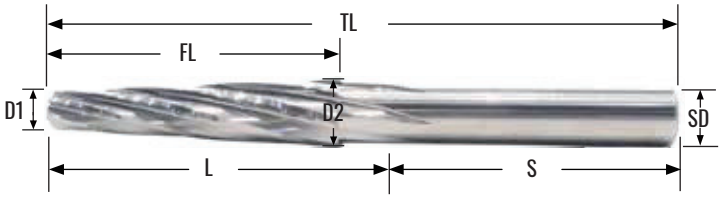

| Order No. | D [mm] | FL [mm] | TL [mm] | SD h6 [mm] |
|---|---|---|---|---|
| SRD-D4.0 | 4.0 | 20 | 56 | 10.0 |
| SRD-D4.5 | 4.5 | 22 | 63 | 10.0 |
| SRD-D5.0 | 5.0 | 22 | 63 | 12.5 |
| SRD-D5.5 | 5.5 | 22 | 63 | 12.5 |
| SRD-D6.0 | 6.0 | 22 | 63 | 12.5 |
| SRD-D6.5 | 6.5 | 22 | 63 | 12.5 |
| SRD-D7.0 | 7.0 | 25 | 71 | 12.5 |
| SRD-D7.5 | 7.5 | 25 | 71 | 12.5 |
| SRD-D8.0 | 8.0 | 25 | 71 | 12.5 |
| SRD-D8.5 | 8.5 | 25 | 71 | 16.0 |
| SRD-D9.0 | 9.0 | 25 | 71 | 16.0 |
| SRD-D9.5 | 9.5 | 25 | 71 | 16.0 |
| SRD-D10.0 | 10.0 | 25 | 71 | 16.0 |
| SRD-D10.5 | 10.5 | 28 | 80 | 16.0 |
| SRD-D11.0 | 11.0 | 28 | 80 | 16.0 |
| SRD-D11.5 | 11.5 | 28 | 80 | 16.0 |
| SRD-D12.0 | 12.0 | 28 | 80 | 80 |

| Order No. | D [mm] | FL [mm] | TL [mm] | SD h6 [mm] |
|---|---|---|---|---|
| SRD-D4.0 | 4.0 | 20 | 56 | 3.5 |
| SRD-D4.5 | 4.5 | 22 | 63 | 4.0 |
| SRD-D5.0 | 5.0 | 22 | 63 | 4.0 |
| SRD-D5.5 | 5.5 | 22 | 63 | 5.0 |
| SRD-D6.0 | 6.0 | 22 | 63 | 5.0 |
| SRD-D6.5 | 6.5 | 22 | 63 | 5.0 |
| SRD-D7.0 | 7.0 | 25 | 71 | 6.0 |
| SRD-D7.5 | 7.5 | 25 | 71 | 6.0 |
| SRD-D8.0 | 8.0 | 25 | 71 | 6.0 |
| SRD-D8.5 | 8.5 | 25 | 71 | 8.0 |
| SRD-D9.0 | 9.0 | 25 | 71 | 8.0 |
| SRD-D9.5 | 9.5 | 25 | 71 | 8.0 |
| SRD-D10.0 | 10.0 | 25 | 71 | 8.0 |
| SRD-D10.5 | 10.5 | 28 | 80 | 10.0 |
| SRD-D11.0 | 11.0 | 28 | 80 | 10.0 |
| SRD-D11.5 | 11.5 | 28 | 80 | 10.0 |
| SRD-D12.0 | 12.0 | 28 | 80 | 10.0 |

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## Taper Reamer




- Suitable for: Various molds and various industrial parts.
- Workpiece material: Processing of gray cast iron, ductile iron,stainless steel, alloy steel and other common materials.
- Special sizes, shank diameters, flute lengths, step reamers, coating, etc. available as specials.




| Order No. | D1 h7 [mm] | D2 [mm] | FL [mm] | S [mm] | L [mm] | TL [mm] | SD h6 [mm] |
|---|---|---|---|---|---|---|---|
| SRE-001 | 4.0 | 8.0 | 40 | 50 | 55 | 105 | 6.0 |
| SRE-002 | 6.0 | 11.0 | 50 | 50 | 65 | 115 | 10.0 |
| SRE-003 | 8.0 | 14.0 | 60 | 50 | 75 | 125 | 12.0 |
| SRE-004 | 10.0 | 18.0 | 80 | 50 | 95 | 145 | 16.0 |
| SRE-005 | 4.0 | 6.0 | 40 | 50 | 55 | 105 | 6.0 |
| SRE-006 | 6.0 | 8.8 | 50 | 50 | 65 | 115 | 8.0 |
| SRE-007 | 8.0 | 11.0 | 60 | 50 | 75 | 125 | 10.0 |
| SRE-008 | 10.0 | 14.0 | 80 | 50 | 95 | 145 | 12.0 |
| SRE-009 | 4.0 | 5.4 | 40 | 50 | 55 | 105 | 5.0 |
| SRE-010 | 6.0 | 7.7 | 50 | 50 | 65 | 115 | 6.0 |
| SRE-011 | 8.0 | 10.0 | 60 | 50 | 75 | 125 | 10.0 |
| SRE-012 | 10.0 | 12.7 | 80 | 50 | 95 | 145 | 12.0 |
| SRE-013 | 4.0 | 4.8 | 40 | 50 | 55 | 105 | 4.0 |
| SRE-014 | 6.0 | 7.0 | 50 | 50 | 65 | 115 | 6.0 |
| SRE-015 | 8.0 | 9.2 | 60 | 50 | 75 | 125 | 8.0 |
| SRE-016 | 10.0 | 11.6 | 80 | 50 | 95 | 145 | 10.0 |

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# Sundi's Total Solution

SUNDI has a strong technical team that provides comprehensive solutions to customers. Our services include process design and optimization, tool design systems, and more. We offer products for various applications such as turning, milling, drilling, and reaming. With just product samples, drawings, and machine specifications, customers can enjoy a hassle-free "turnkey" service.

| | |
|---|---|
| Process | Designing and optimizing machining solutions to achieve high precision and efficiency with minimal operations and tooling. |
| Cutting Tools | We provide custom-made reamers in different specifications and types to meet the specific requirements of our customers. |
| Experience | With over 20 years of experience in the cutting tool industry, we have accumulated valuable expertise and knowledge to deliver exceptional solutions and services. |

# Non-standard carbide reamer



## Tungsten Carbide Tipped Reamer

With Steel Shank

- High-hardness tungsten carbide blades affixed to a high-speed steel base.
- Balances high precision with cost reduction.
- Suitable for hole machining in cast iron components.

## Tungsten Carbide Step Reamer

With Spiral Flutes

- Spiral flutes design enhances cutting power.
- High-precision step reamer.
- Capable of incorporating internal coolant.
- Made of ultra-fine grain material for high stability.





## Tungsten Carbide Step Drilling Reamer

With Spiral Flutes

- Spiral flutes design for smooth chip evacuation.
- The second step can be designed with 2 or 4 flutes.
- Solid carbide construction, customizable with internal cooling features based on requirements.



## Tungsten Carbide Step Reamer

With Straight Flutes

- Suitable for processing cast iron.
- High-precision step dimensions.
- Customizable with chip-breaking grooves and internal cooling as per requirements.

## Solid Carbide Reamer

With Long Shank

- Commonly used for precision finishing of through-holes and blind holes.
- High-hardness coating for extended tool life.
- Tolerance controlled within 0.005mm.





## Tungsten Carbide Drilling Reamer

With Straight Flutes

- Provides more stable results.
- Simultaneously forms reamer and chamfers hole edges.
- Enhances machining efficiency.
- Exceptionally stable and wear-resistant.