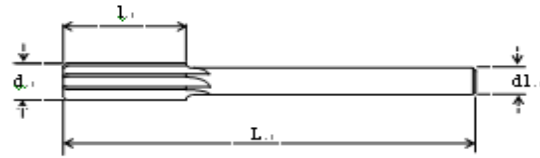




# ◇ Chucking Reamer

Straight shank, NAS897/ASME B94

Material: HSS, Cobalt, Solid Carbide

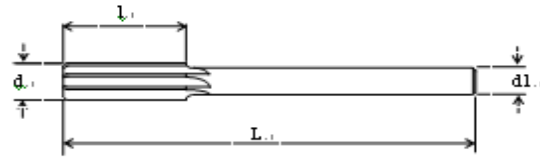


| Size  | Dec. Equiv. | Flute Length | O.A.L. | Straight Flute Order No. | Sprial Flute Order No. |
|-------|-------------|--------------|--------|--------------------------|------------------------|
| 3/64  | 0.0469      | 1/2          | 2-1/2  | SA6711003                | SA6821003              |
| 1/16  | 0.0629      | 1/2          | 2-1/2  | SA6711004                | SA6821004              |
| 5/64  | 0.0781      | 3/4          | 3      | SA6711005                | SA6821005              |
| 3/32  | 0.0938      | 3/4          | 3      | SA6711006                | SA6821006              |
| 7/64  | 0.1094      | 7/8          | 3-1/2  | SA6711007                | SA6821007              |
| 1/8   | 0.1250      | 7/8          | 3-1/2  | SA6711008                | SA6821008              |
| 9/64  | 0.1406      | 1            | 4      | SA6711009                | SA6821009              |
| 5/32  | 0.1582      | 1            | 4      | SA6711010                | SA6821010              |
| 11/64 | 0.1719      | 1-1/8        | 4-1/2  | SA6711011                | SA6821011              |
| 3/16  | 0.1875      | 1-1/8        | 4-1/2  | SA6711012                | SA6821012              |
| 13/64 | 0.2031      | 1-1/4        | 5      | SA6711013                | SA6821013              |
| 7/32  | 0.2188      | 1-1/4        | 5      | SA6711014                | SA6821014              |
| 15/64 | 0.2344      | 1-1/2        | 6      | SA6711015                | SA6821015              |
| 1/4   | 0.2500      | 1-1/2        | 6      | SA6711016                | SA6821016              |
| 17/64 | 0.2656      | 1-1/2        | 6      | SA6711017                | SA6821017              |
| 9/32  | 0.2812      | 1-1/2        | 6      | SA6711018                | SA6821018              |
| 19/64 | 0.2969      | 1-1/2        | 6      | SA6711019                | SA6821019              |
| 5/16  | 0.3125      | 1-1/2        | 6      | SA6711020                | SA6821020              |
| 21/64 | 0.3281      | 1-1/2        | 6      | SA6711021                | SA6821021              |
| 11/32 | 0.3438      | 1-1/2        | 6      | SA6711022                | SA6821022              |
| 23/64 | 0.3594      | 1-3/4        | 7      | SA6711023                | SA6821023              |
| 3/8   | 0.3750      | 1-3/4        | 7      | SA6711024                | SA6821024              |
| 25/64 | 0.3906      | 1-3/4        | 7      | SA6711025                | SA6821025              |
| 13/32 | 0.4062      | 1-3/4        | 7      | SA6711026                | SA6821026              |
| 27/64 | 0.4219      | 1-3/4        | 7      | SA6711027                | SA6821027              |
| 7/16  | 0.4375      | 1-3/4        | 7      | SA6711028                | SA6821028              |
| 29/64 | 0.4531      | 1-3/4        | 7      | SA6711029                | SA6821029              |
| 15/32 | 0.4688      | 1-3/4        | 7      | SA6711030                | SA6821030              |
| 31/64 | 0.4844      | 2            | 8      | SA6711031                | SA6821031              |
| 1/2   | 0.5000      | 2            | 8      | SA6711032                | SA6821032              |
| 33/64 | 0.5156      | 2            | 8      | SA6711033                | SA6821033              |
| 17/32 | 0.5312      | 2            | 8      | SA6711034                | SA6821034              |
| 35/64 | 0.5469      | 2            | 8      | SA6711035                | SA6821035              |
| 9/16  | 0.5625      | 2            | 8      | SA6711036                | SA6821036              |
| 37/64 | 0.5781      | 2            | 8      | SA6711037                | SA6821037              |
| 19/32 | 0.5938      | 2            | 8      | SA6711038                | SA6821038              |
| 39/64 | 0.6094      | 2-1/4        | 9      | SA6711039                | SA6821039              |
| 5/8   | 0.6250      | 2-1/4        | 9      | SA6711040                | SA6821040              |
| 41/64 | 0.6406      | 2-1/4        | 9      | SA6711041                | SA6821041              |
| 21/32 | 0.6562      | 2-1/4        | 9      | SA6711042                | SA6821042              |
| 43/64 | 0.6719      | 2-1/4        | 9      | SA6711043                | SA6821043              |
| 11/16 | 0.6875      | 2-1/4        | 9      | SA6711044                | SA6821044              |
| 45/64 | 0.7031      | 2-1/4        | 9      | SA6711045                | SA6821045              |

# ◇ Chucking Reamer

Straight shank, NAS897/ASME B94

Material: HSS, Cobalt, Solid Carbide



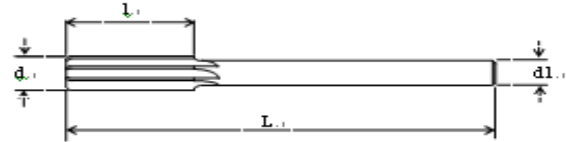
| Size    | Dec. Equiv. | Flute Length | O.A.L. | Straight Flute Order No. | Spiral Flute Order No. |
|---------|-------------|--------------|--------|--------------------------|------------------------|
| 23/32   | 0.7188      | 2-1/4        | 9      | SA6711046                | SA6821046              |
| 47/64   | 0.7344      | 2-1/2        | 9-1/2  | SA6711047                | SA6821047              |
| 3/4     | 0.7500      | 2-1/2        | 9-1/2  | SA6711048                | SA6821048              |
| 49/64   | 0.7656      | 2-1/2        | 9-1/2  | SA6711049                | SA6821049              |
| 25/32   | 0.7812      | 2-1/2        | 9-1/2  | SA6711050                | SA6821050              |
| 51/64   | 0.7969      | 2-1/2        | 9-1/2  | SA6711051                | SA6821051              |
| 13/16   | 0.8125      | 2-1/2        | 9-1/2  | SA6711052                | SA6821052              |
| 53/64   | 0.8281      | 2-1/2        | 9-1/2  | SA6711053                | SA6821053              |
| 27/32   | 0.8438      | 2-1/2        | 9-1/2  | SA6711054                | SA6821054              |
| 55/64   | 0.8594      | 2-5/8        | 10     | SA6711055                | SA6821055              |
| 7/8     | 0.8750      | 2-5/8        | 10     | SA6711056                | SA6821056              |
| 57/64   | 0.8906      | 2-5/8        | 10     | SA6711057                | SA6821057              |
| 29/32   | 0.9062      | 2-5/8        | 10     | SA6711058                | SA6821058              |
| 59/64   | 0.9219      | 2-5/8        | 10     | SA6711059                | SA6821059              |
| 15/16   | 0.9375      | 2-5/8        | 10     | SA6711060                | SA6821060              |
| 61/64   | 0.9531      | 2-5/8        | 10     | SA6711061                | SA6821061              |
| 31/32   | 0.9688      | 2-5/8        | 10     | SA6711062                | SA6821062              |
| 63/64   | 0.9844      | 2-3/4        | 10-1/2 | SA6711063                | SA6821063              |
| 1       | 1.0000      | 2-3/4        | 10-1/2 | SA6711100                | SA6821100              |
| 1-1/32  | 1.0313      | 2-3/4        | 10-1/2 | SA6711102                | SA6821102              |
| 1-1/16  | 1.0625      | 2-3/4        | 10-1/2 | SA6711104                | SA6821104              |
| 1-3/32  | 1.0938      | 2-7/8        | 11     | SA6711106                | SA6821106              |
| 1-1/8   | 1.1250      | 2-7/8        | 11     | SA6711108                | SA6821108              |
| 1-5/32  | 1.1562      | 2-7/8        | 11     | SA6711110                | SA6821120              |
| 1-3/16  | 1.1875      | 2-7/8        | 11     | SA6711112                | SA6821112              |
| 1-7/32  | 1.2188      | 2-7/8        | 11     | SA6711114                | SA6821114              |
| 1-1/4   | 1.2500      | 3            | 11-1/2 | SA6711116                | SA6821116              |
| 1-9/32  | 1.2813      | 3            | 11-1/2 | SA6711118                | SA6821118              |
| 1-5/16  | 1.3125      | 3            | 11-1/2 | SA6711120                | SA6821120              |
| 1-3/8   | 1.3750      | 3-1/4        | 12     | SA6711124                | SA6821124              |
| 1-7/16  | 1.4375      | 3-1/4        | 12     | SA6711128                | SA6821128              |
| 1-1/2   | 1.5000      | 3-1/2        | 12-1/2 | SA6711132                | SA6821132              |
| 1-9/16  | 1.5625      | 3-1/2        | 12-1/2 | SA6711136                | SA6821136              |
| 1-5/8   | 1.6250      | 3-5/8        | 13     | SA6711140                | SA6821140              |
| 1-11/16 | 1.6875      | 3-5/8        | 13     | SA6711144                | SA6821144              |
| 1-3/4   | 1.7500      | 4            | 13-1/2 | SA6711148                | SA6821148              |
| 1-7/8   | 1.8750      | 4            | 14     | SA6711156                | SA6821156              |
| 2       | 2.0000      | 4            | 14     | SA6711200                | SA6821200              |



# ◇ Chucking Reamer

Straight shank, NAS897/ASME B94

Material: HSS, Cobalt, Solid Carbide

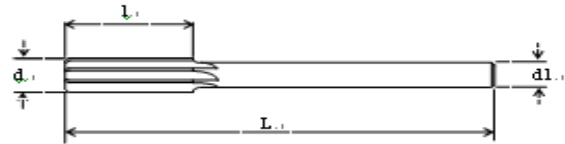


| Size | Dec. Equiv. | Flute Length | O.A.L. | Straight Flute Order No. | Spiral Flute Order No. |
|------|-------------|--------------|--------|--------------------------|------------------------|
| 1    | 0.2280      | 1            | 3      | SA6712001                | SA6822001              |
| 2    | 0.2210      | 1            | 3      | SA6712002                | SA6822002              |
| 3    | 0.2130      | 1            | 3      | SA6712003                | SA6822003              |
| 4    | 0.2090      | 1            | 3      | SA6712004                | SA6822004              |
| 5    | 0.2055      | 1            | 3      | SA6712005                | SA6822005              |
| 6    | 0.2040      | 1            | 3      | SA6712006                | SA6822006              |
| 7    | 0.2010      | 1            | 3      | SA6712007                | SA6822007              |
| 8    | 0.1990      | 1            | 3      | SA6712008                | SA6822008              |
| 9    | 0.1960      | 1            | 3      | SA6712009                | SA6822009              |
| 10   | 0.1935      | 1            | 3      | SA6712010                | SA6822010              |
| 11   | 0.1910      | 7/8          | 2-3/4  | SA6712011                | SA6822011              |
| 12   | 0.1890      | 7/8          | 2-3/4  | SA6712012                | SA6822012              |
| 13   | 0.1850      | 7/8          | 2-3/4  | SA6712013                | SA6822013              |
| 14   | 0.1820      | 7/8          | 2-3/4  | SA6712014                | SA6822014              |
| 15   | 0.1800      | 7/8          | 2-3/4  | SA6712015                | SA6822015              |
| 16   | 0.1770      | 7/8          | 2-3/4  | SA6712016                | SA6822016              |
| 17   | 0.1730      | 7/8          | 2-3/4  | SA6712017                | SA6822017              |
| 18   | 0.1695      | 7/8          | 2-3/4  | SA6712018                | SA6822018              |
| 19   | 0.1660      | 7/8          | 2-3/4  | SA6712019                | SA6822019              |
| 20   | 0.1610      | 7/8          | 2-3/4  | SA6712020                | SA6822020              |
| 21   | 0.1590      | 3/4          | 2-1/2  | SA6712021                | SA6822021              |
| 22   | 0.1570      | 3/4          | 2-1/2  | SA6712022                | SA6822022              |
| 23   | 0.1540      | 3/4          | 2-1/2  | SA6712023                | SA6822023              |
| 24   | 0.1520      | 3/4          | 2-1/2  | SA6712024                | SA6822024              |
| 25   | 0.1495      | 3/4          | 2-1/2  | SA6712025                | SA6822025              |
| 26   | 0.1470      | 3/4          | 2-1/2  | SA6712026                | SA6822026              |
| 27   | 0.1440      | 3/4          | 2-1/2  | SA6712027                | SA6822027              |
| 28   | 0.1405      | 3/4          | 2-1/2  | SA6712028                | SA6822028              |
| 29   | 0.1360      | 3/4          | 2-1/2  | SA6712029                | SA6822029              |
| 30   | 0.1285      | 5/8          | 2-1/4  | SA6712030                | SA6822030              |
| 31   | 0.1200      | 5/8          | 2-1/4  | SA6712031                | SA6822031              |
| 32   | 0.1160      | 5/8          | 2-1/4  | SA6712032                | SA6822032              |
| 33   | 0.1130      | 5/8          | 2-1/4  | SA6712033                | SA6822033              |
| 34   | 0.1110      | 5/8          | 2-1/4  | SA6712034                | SA6822034              |
| 35   | 0.1100      | 5/8          | 2-1/4  | SA6712035                | SA6822035              |
| 36   | 0.1065      | 5/8          | 2-1/4  | SA6712036                | SA6822036              |
| 37   | 0.1040      | 5/8          | 2-1/4  | SA6712037                | SA6822037              |
| 38   | 0.1015      | 5/8          | 2-1/4  | SA6712038                | SA6822038              |
| 39   | 0.0995      | 5/8          | 2-1/4  | SA6712039                | SA6822039              |
| 40   | 0.0980      | 5/8          | 2-1/4  | SA6712040                | SA6822040              |
| 41   | 0.0960      | 1/2          | 2      | SA6712041                | SA6822041              |
| 42   | 0.0935      | 1/2          | 2      | SA6712042                | SA6822042              |
| 43   | 0.0890      | 1/2          | 2      | SA6712043                | SA6822043              |
| 44   | 0.0860      | 1/2          | 2      | SA6712044                | SA6822044              |
| 45   | 0.0820      | 1/2          | 2      | SA6712045                | SA6822045              |
| 46   | 0.0810      | 1/2          | 1-3/4  | SA6712046                | SA6822046              |
| 47   | 0.0785      | 1/2          | 1-3/4  | SA6712047                | SA6822047              |
| 48   | 0.0760      | 1/2          | 1-3/4  | SA6712048                | SA6822048              |
| 49   | 0.0730      | 1/2          | 1-3/4  | SA6712049                | SA6822049              |
| 50   | 0.0700      | 1/2          | 1-3/4  | SA6712050                | SA6822050              |

# ◇ Chucking Reamer

Straight shank, NAS897/ASME B94

Material: HSS, Cobalt, Solid Carbide



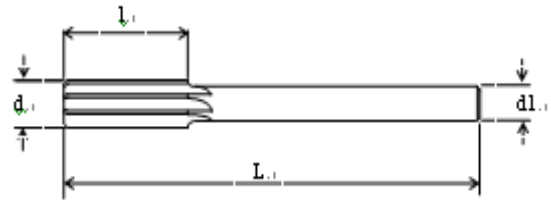
| Size | Dec. Equiv. | Flute Length | O.A.L. | Straight Flute Order No. | Spiral Flute Order No. |
|------|-------------|--------------|--------|--------------------------|------------------------|
| 51   | 0.0670      | 1/2          | 1-3/4  | SA6712051                | SA6822051              |
| 52   | 0.0635      | 3/8          | 1-1/2  | SA6712052                | SA6822052              |
| 53   | 0.0595      | 3/8          | 1-1/2  | SA6712053                | SA6822053              |
| 54   | 0.0550      | 3/8          | 1-1/2  | SA6712054                | SA6822054              |
| 55   | 0.0520      | 3/8          | 1-1/2  | SA6712055                | SA6822055              |
| 56   | 0.0465      | 3/8          | 1-1/2  | SA6712056                | SA6822056              |
| 57   | 0.0430      | 3/8          | 1-1/2  | SA6712057                | SA6822057              |
| 58   | 0.0420      | 3/8          | 1-1/2  | SA6712058                | SA6822058              |
| 59   | 0.0410      | 1/4          | 1-1/2  | SA6712059                | SA6822059              |
| 60   | 0.0400      | 1/4          | 1-1/2  | SA6712060                | SA6822060              |
| 61   | 0.0390      | 1/4          | 1-1/2  | SA6712061                | SA6822061              |
| 62   | 0.0380      | 1/4          | 1-1/2  | SA6712062                | SA6822062              |
| 63   | 0.0370      | 1/4          | 1-1/2  | SA6712063                | SA6822063              |
| 64   | 0.0360      | 1/4          | 1-1/2  | SA6712064                | SA6822064              |
| 65   | 0.0350      | 1/4          | 1-1/2  | SA6712065                | SA6822065              |
| 66   | 0.0330      | 1/4          | 1-1/2  | SA6712066                | SA6822066              |
| 67   | 0.0320      | 1/4          | 1-1/2  | SA6712067                | SA6822067              |
| 68   | 0.0310      | 1/4          | 1-1/2  | SA6712068                | SA6822068              |
| 69   | 0.0292      | 1/4          | 1-1/2  | SA6712069                | SA6822069              |
| 70   | 0.0280      | 1/4          | 1-1/2  | SA6712070                | SA6822070              |

| Size | Dec. Equiv. | Flute Length | O.A.L. | Straight Flute Order No. | Spiral Flute Order No. |
|------|-------------|--------------|--------|--------------------------|------------------------|
| A    | 0.2340      | 1            | 3      | SA6713001                | SA6823001              |
| B    | 0.2380      | 1            | 3      | SA6713002                | SA6823002              |
| C    | 0.2420      | 1            | 3      | SA6713003                | SA6823003              |
| D    | 0.2460      | 1            | 3      | SA6713004                | SA6823004              |
| E    | 0.2500      | 1-1/8        | 3-1/4  | SA6713005                | SA6823005              |
| F    | 0.2570      | 1-1/8        | 3-1/4  | SA6713006                | SA6823006              |
| G    | 0.2610      | 1-1/8        | 3-1/4  | SA6713007                | SA6823007              |
| H    | 0.2660      | 1-1/8        | 3-1/4  | SA6713008                | SA6823008              |
| I    | 0.2720      | 1-1/8        | 3-1/4  | SA6813009                | SA6823009              |
| J    | 0.2770      | 1-1/8        | 3-1/4  | SA6713010                | SA6823010              |
| K    | 0.2810      | 1-1/8        | 3-1/4  | SA6713011                | SA6823011              |
| L    | 0.2900      | 1-1/8        | 3-1/4  | SA6713012                | SA6823012              |
| M    | 0.2950      | 1-1/8        | 3-1/4  | SA6713013                | SA6823013              |
| N    | 0.3020      | 1-1/8        | 3-1/4  | SA6713014                | SA6823014              |
| O    | 0.3160      | 1-1/8        | 3-1/4  | SA6713015                | SA6823015              |
| P    | 0.3230      | 1-1/4        | 3-1/2  | SA6713016                | SA6823016              |
| Q    | 0.3320      | 1-1/4        | 3-1/2  | SA6713017                | SA6823017              |
| R    | 0.3390      | 1-1/4        | 3-1/2  | SA6713018                | SA6823018              |
| S    | 0.3480      | 1-1/4        | 3-1/2  | SA6713019                | SA6823019              |
| T    | 0.3580      | 1-1/4        | 3-1/2  | SA6713020                | SA6823020              |
| U    | 0.3680      | 1-1/4        | 3-1/2  | SA6713021                | SA6823021              |
| V    | 0.3770      | 1-1/4        | 3-1/2  | SA6713022                | SA6823022              |
| W    | 0.3860      | 1-1/4        | 3-1/2  | SA6713023                | SA6823023              |
| X    | 0.3970      | 1-1/4        | 3-1/2  | SA6713024                | SA6823024              |
| Y    | 0.4040      | 1-1/4        | 3-1/2  | SA6713025                | SA6823025              |
| Z    | 0.4130      | 1-1/4        | 3-1/2  | SA6713026                | SA6823026              |



# ◇ Chucking Reamer

Material: HSS, Cobalt, Solid Carbide



| Size | Flute Length | Overall Length | Straight Flute Order No. | Spiral Flute Order No. |
|------|--------------|----------------|--------------------------|------------------------|
| 2.5  | 7/8          | 3-1/2          | SA6714025                | SA6824025              |
| 3.0  | 7/8          | 3-1/2          | SA6714030                | SA6824030              |
| 3.5  | 1            | 4              | SA6714035                | SA6824035              |
| 4.0  | 1-1/8        | 4-1/2          | SA6714040                | SA6824040              |
| 4.5  | 1-1/8        | 4-1/2          | SA6714045                | SA6824045              |
| 5.0  | 1-1/4        | 5              | SA6714050                | SA6824050              |
| 5.5  | 1-1/4        | 5              | SA6714055                | SA6824055              |
| 6.0  | 1-1/2        | 6              | SA6714060                | SA6824060              |
| 6.5  | 1-1/2        | 6              | SA6714065                | SA6824065              |
| 7.0  | 1-1/2        | 6              | SA6714070                | SA6824070              |
| 7.5  | 1-1/2        | 6              | SA6714075                | SA6824075              |
| 8.0  | 1-1/2        | 6              | SA6714080                | SA6824080              |
| 8.5  | 1-1/2        | 6              | SA6714085                | SA6824085              |
| 9.0  | 1-3/4        | 7              | SA6714090                | SA6824090              |
| 9.5  | 1-3/4        | 7              | SA6714095                | SA6824095              |
| 10.0 | 1-3/4        | 7              | SA6714100                | SA6824100              |
| 10.5 | 1-3/4        | 7              | SA6714105                | SA6824105              |
| 11.0 | 1-3/4        | 7              | SA6714110                | SA6824110              |
| 11.5 | 1-3/4        | 7              | SA6714115                | SA6824115              |
| 12.0 | 2            | 8              | SA6714120                | SA6824120              |
| 12.5 | 2            | 8              | SA6714125                | SA6824125              |
| 13.0 | 2            | 8              | SA6714130                | SA6824130              |
| 13.5 | 2            | 8              | SA6714135                | SA6824135              |
| 14.0 | 2            | 8              | SA6714140                | SA6824140              |
| 14.5 | 2            | 8              | SA6714145                | SA6824145              |
| 15.0 | 2            | 8              | SA6714150                | SA6824150              |
| 15.5 | 2            | 8              | SA6714155                | SA6824155              |
| 16.0 | 2-1/4        | 9              | SA6714160                | SA6824160              |
| 16.5 | 2-1/4        | 9              | SA6714165                | SA6824165              |
| 17.0 | 2-1/4        | 9              | SA6714170                | SA6824170              |
| 17.5 | 2-1/4        | 9              | SA6714175                | SA6824175              |
| 18.0 | 2-1/4        | 9              | SA6714180                | SA6824180              |
| 18.5 | 2-1/4        | 9              | SA6714185                | SA6824185              |
| 19.0 | 2-1/2        | 9-1/2          | SA6714190                | SA6824190              |
| 19.5 | 2-1/2        | 9-1/2          | SA6714195                | SA6824195              |
| 20.0 | 2-1/2        | 9-1/2          | SA6714200                | SA6824200              |
| 21.0 | 2-1/2        | 9-1/2          | SA6714210                | SA6824210              |
| 22.0 | 2-1/2        | 9-1/2          | SA6714220                | SA6824220              |
| 23.0 | 2-5/8        | 10             | SA6714230                | SA6824230              |
| 24.0 | 2-5/8        | 10             | SA6714240                | SA6824240              |
| 25.0 | 2-3/4        | 10-1/2         | SA6714250                | SA6824250              |