

G9424, G9G44, G9A68, G9444, G9527, G9445, G9G45, G9452 SERIES

2 FLUTE - SLOTTING

Vc = m/min.
fz = mm/tooth
RPM = rev./min.
FEED = mm/min.

| ISO | VDI 3323 | Material Description | Ae | Ap | Parameter | Diameter (Ø) | | | | | | | | | | | | | | | |
|-------------|---|--|---------------------------|---------------------------|-----------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|
| | | | | | | 1.0 | 1.5 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 8.0 | 10.0 | 12.0 | 14.0 | 16.0 | 20.0 | | | |
| P | 1-4 | Non-alloy steel | 1.0D | 0.5D (Up to Ø3 : 0.2D) | Vc | 45 | 45 | 50 | 55 | 65 | 70 | 70 | 70 | 70 | 70 | 75 | 75 | 70 | | | |
| | | | | | fz | 0.004 | 0.008 | 0.01 | 0.015 | 0.025 | 0.031 | 0.039 | 0.057 | 0.064 | 0.065 | 0.063 | 0.062 | 0.063 | | | |
| | RPM | | | | 14324 | 9549 | 7958 | 5836 | 5173 | 4456 | 3714 | 2785 | 2228 | 1857 | 1705 | 1492 | 1114 | | | | |
| | FEED | | | | 115 | 153 | 159 | 175 | 259 | 276 | 290 | 318 | 285 | 241 | 215 | 185 | 140 | | | | |
| | Vc | | | | 25 | 25 | 30 | 35 | 40 | 40 | 45 | 45 | 40 | 45 | 45 | 50 | 45 | | | | |
| | fz | | | | 0.004 | 0.008 | 0.01 | 0.016 | 0.025 | 0.031 | 0.041 | 0.05 | 0.05 | 0.048 | 0.048 | 0.05 | 0.05 | | | | |
| | RPM | 7958 | 5305 | 4775 | 3714 | 3183 | 2546 | 2387 | 1790 | 1273 | 1194 | 1023 | 995 | 716 | | | | | | | |
| | FEED | 64 | 85 | 95 | 119 | 159 | 158 | 196 | 179 | 127 | 115 | 98 | 99 | 72 | | | | | | | |
| | 5 | Low alloy steel | 1.0D | 0.5D (Up to Ø3 : 0.2D) | Vc | 45 | 45 | 50 | 55 | 65 | 70 | 70 | 70 | 70 | 75 | 75 | 70 | | | | |
| | | | | | fz | 0.004 | 0.008 | 0.01 | 0.015 | 0.025 | 0.031 | 0.039 | 0.057 | 0.064 | 0.065 | 0.063 | 0.062 | 0.063 | | | |
| | RPM | | | | 14324 | 9549 | 7958 | 5836 | 5173 | 4456 | 3714 | 2785 | 2228 | 1857 | 1705 | 1492 | 1114 | | | | |
| | FEED | | | | 115 | 153 | 159 | 175 | 259 | 276 | 290 | 318 | 285 | 241 | 215 | 185 | 140 | | | | |
| Vc | 25 | | | | 25 | 30 | 35 | 40 | 40 | 45 | 45 | 40 | 45 | 45 | 50 | 45 | | | | | |
| fz | 0.004 | | | | 0.008 | 0.01 | 0.016 | 0.025 | 0.031 | 0.041 | 0.05 | 0.05 | 0.048 | 0.048 | 0.05 | 0.05 | | | | | |
| RPM | 7958 | 5305 | 4775 | 3714 | 3183 | 2546 | 2387 | 1790 | 1273 | 1194 | 1023 | 995 | 716 | | | | | | | | |
| FEED | 64 | 85 | 95 | 119 | 159 | 158 | 196 | 179 | 127 | 115 | 98 | 99 | 72 | | | | | | | | |
| 6-7 | High alloyed steel, and tool steel | 1.0D | 0.5D (Up to Ø3 : 0.2D) | Vc | 45 | 45 | 50 | 55 | 65 | 70 | 70 | 70 | 70 | 75 | 75 | 70 | | | | | |
| | | | | fz | 0.004 | 0.008 | 0.01 | 0.015 | 0.025 | 0.031 | 0.039 | 0.057 | 0.064 | 0.065 | 0.063 | 0.062 | 0.063 | | | | |
| RPM | | | | 14324 | 9549 | 7958 | 5836 | 5173 | 4456 | 3714 | 2785 | 2228 | 1857 | 1705 | 1492 | 1114 | | | | | |
| FEED | | | | 115 | 153 | 159 | 175 | 259 | 276 | 290 | 318 | 285 | 241 | 215 | 185 | 140 | | | | | |
| Vc | | | | 25 | 25 | 30 | 35 | 40 | 40 | 45 | 45 | 40 | 45 | 45 | 50 | 45 | | | | | |
| fz | | | | 0.004 | 0.008 | 0.01 | 0.016 | 0.025 | 0.031 | 0.041 | 0.05 | 0.05 | 0.048 | 0.048 | 0.05 | 0.05 | | | | | |
| RPM | 7958 | 5305 | 4775 | 3714 | 3183 | 2546 | 2387 | 1790 | 1273 | 1194 | 1023 | 995 | 716 | | | | | | | | |
| FEED | 64 | 85 | 95 | 119 | 159 | 158 | 196 | 179 | 127 | 115 | 98 | 99 | 72 | | | | | | | | |
| 8-9 | High alloyed steel, and tool steel | 1.0D | 0.5D (Up to Ø3 : 0.2D) | Vc | 45 | 45 | 50 | 55 | 65 | 70 | 70 | 70 | 70 | 75 | 75 | 70 | | | | | |
| | | | | fz | 0.004 | 0.008 | 0.01 | 0.015 | 0.025 | 0.031 | 0.039 | 0.057 | 0.064 | 0.065 | 0.063 | 0.062 | 0.063 | | | | |
| RPM | | | | 14324 | 9549 | 7958 | 5836 | 5173 | 4456 | 3714 | 2785 | 2228 | 1857 | 1705 | 1492 | 1114 | | | | | |
| FEED | | | | 115 | 153 | 159 | 175 | 259 | 276 | 290 | 318 | 285 | 241 | 215 | 185 | 140 | | | | | |
| Vc | | | | 25 | 25 | 30 | 35 | 40 | 40 | 45 | 45 | 40 | 45 | 45 | 50 | 45 | | | | | |
| fz | | | | 0.004 | 0.008 | 0.01 | 0.016 | 0.025 | 0.031 | 0.041 | 0.05 | 0.05 | 0.048 | 0.048 | 0.05 | 0.05 | | | | | |
| RPM | 7958 | 5305 | 4775 | 3714 | 3183 | 2546 | 2387 | 1790 | 1273 | 1194 | 1023 | 995 | 716 | | | | | | | | |
| FEED | 64 | 85 | 95 | 119 | 159 | 158 | 196 | 179 | 127 | 115 | 98 | 99 | 72 | | | | | | | | |
| 10 | High alloyed steel, and tool steel | 1.0D | 0.5D (Up to Ø3 : 0.2D) | Vc | 45 | 45 | 50 | 55 | 65 | 70 | 70 | 70 | 70 | 75 | 75 | 70 | | | | | |
| | | | | fz | 0.004 | 0.008 | 0.01 | 0.015 | 0.025 | 0.031 | 0.039 | 0.057 | 0.064 | 0.065 | 0.063 | 0.062 | 0.063 | | | | |
| RPM | | | | 14324 | 9549 | 7958 | 5836 | 5173 | 4456 | 3714 | 2785 | 2228 | 1857 | 1705 | 1492 | 1114 | | | | | |
| FEED | | | | 115 | 153 | 159 | 175 | 259 | 276 | 290 | 318 | 285 | 241 | 215 | 185 | 140 | | | | | |
| Vc | | | | 25 | 25 | 30 | 35 | 40 | 40 | 45 | 45 | 40 | 45 | 45 | 50 | 45 | | | | | |
| fz | | | | 0.004 | 0.008 | 0.01 | 0.016 | 0.025 | 0.031 | 0.041 | 0.05 | 0.05 | 0.048 | 0.048 | 0.05 | 0.05 | | | | | |
| RPM | 7958 | 5305 | 4775 | 3714 | 3183 | 2546 | 2387 | 1790 | 1273 | 1194 | 1023 | 995 | 716 | | | | | | | | |
| FEED | 64 | 85 | 95 | 119 | 159 | 158 | 196 | 179 | 127 | 115 | 98 | 99 | 72 | | | | | | | | |
| 11.1 - 11.2 | High alloyed steel, and tool steel | 1.0D | 0.5D (Up to Ø3 : 0.2D) | Vc | 45 | 45 | 50 | 55 | 65 | 70 | 70 | 70 | 70 | 75 | 75 | 70 | | | | | |
| | | | | fz | 0.004 | 0.008 | 0.01 | 0.015 | 0.025 | 0.031 | 0.039 | 0.057 | 0.064 | 0.065 | 0.063 | 0.062 | 0.063 | | | | |
| RPM | | | | 14324 | 9549 | 7958 | 5836 | 5173 | 4456 | 3714 | 2785 | 2228 | 1857 | 1705 | 1492 | 1114 | | | | | |
| FEED | | | | 115 | 153 | 159 | 175 | 259 | 276 | 290 | 318 | 285 | 241 | 215 | 185 | 140 | | | | | |
| Vc | | | | 25 | 25 | 30 | 35 | 40 | 40 | 45 | 45 | 40 | 45 | 45 | 50 | 45 | | | | | |
| fz | | | | 0.004 | 0.008 | 0.01 | 0.016 | 0.025 | 0.031 | 0.041 | 0.05 | 0.05 | 0.048 | 0.048 | 0.05 | 0.05 | | | | | |
| RPM | 7958 | 5305 | 4775 | 3714 | 3183 | 2546 | 2387 | 1790 | 1273 | 1194 | 1023 | 995 | 716 | | | | | | | | |
| FEED | 64 | 85 | 95 | 119 | 159 | 158 | 196 | 179 | 127 | 115 | 98 | 99 | 72 | | | | | | | | |
| M | 14.1 | Stainless steel | 1.0D | 0.5D (Up to Ø3 : 0.2D) | Vc | 20 | 25 | 25 | 30 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | | | | |
| | | | | | fz | 0.003 | 0.007 | 0.009 | 0.016 | 0.025 | 0.031 | 0.04 | 0.053 | 0.059 | 0.058 | 0.059 | 0.068 | 0.064 | | | |
| RPM | 6366 | 5305 | 3979 | 3183 | 2785 | 2228 | 1857 | 1393 | 1114 | 928 | 796 | 696 | 557 | | | | | | | | |
| FEED | 38 | 74 | 72 | 102 | 129 | 138 | 149 | 148 | 131 | 108 | 94 | 95 | 71 | | | | | | | | |
| K | 15-20 | Grey cast iron Nodular cast iron Malleable cast iron | 1.0D | 1.0D | Vc | 60 | 55 | 60 | 55 | 60 | 55 | 55 | 60 | 55 | 55 | 55 | 55 | | | | |
| | | | | | fz | 0.005 | 0.008 | 0.012 | 0.018 | 0.024 | 0.03 | 0.043 | 0.063 | 0.077 | 0.102 | 0.119 | 0.145 | 0.189 | | | |
| RPM | 19099 | 11671 | 9549 | 5836 | 4775 | 3501 | 2918 | 2188 | 1910 | 1459 | 1251 | 1094 | 875 | | | | | | | | |
| FEED | 191 | 187 | 229 | 210 | 229 | 210 | 251 | 276 | 294 | 298 | 298 | 317 | 331 | | | | | | | | |
| N | 21~22 | Aluminum-wrought alloy | 1.0D | 1.0D | Vc | 140 | 130 | 140 | 145 | 140 | 145 | 145 | 145 | 145 | 140 | 145 | 145 | 140 | | | |
| | | | | | fz | 0.004 | 0.007 | 0.01 | 0.015 | 0.021 | 0.025 | 0.032 | 0.043 | 0.053 | 0.065 | 0.073 | 0.085 | 0.11 | | | |
| | RPM | | | | 44563 | 27587 | 22282 | 15385 | 11141 | 9231 | 7692 | 5769 | 4615 | 3714 | 3297 | 2885 | 2228 | | | | |
| | FEED | | | | 357 | 386 | 446 | 462 | 468 | 462 | 492 | 496 | 489 | 483 | 481 | 490 | 490 | | | | |
| | Vc | | | | 140 | 130 | 140 | 145 | 140 | 145 | 145 | 145 | 145 | 140 | 145 | 145 | 140 | | | | |
| | fz | | | | 0.004 | 0.007 | 0.01 | 0.015 | 0.021 | 0.025 | 0.032 | 0.043 | 0.053 | 0.065 | 0.073 | 0.085 | 0.11 | | | | |
| | RPM | 44563 | 27587 | 22282 | 15385 | 11141 | 9231 | 7692 | 5769 | 4615 | 3714 | 3297 | 2885 | 2228 | | | | | | | |
| | FEED | 357 | 386 | 446 | 462 | 468 | 462 | 492 | 496 | 489 | 483 | 481 | 490 | 490 | | | | | | | |
| | 23~25 | Aluminum-cast, alloyed | 1.0D | 1.0D | Vc | 140 | 130 | 140 | 145 | 140 | 145 | 145 | 145 | 145 | 140 | 145 | 145 | 140 | | | |
| | | | | | fz | 0.004 | 0.007 | 0.01 | 0.015 | 0.021 | 0.025 | 0.032 | 0.043 | 0.053 | 0.065 | 0.073 | 0.085 | 0.11 | | | |
| | RPM | | | | 44563 | 27587 | 22282 | 15385 | 11141 | 9231 | 7692 | 5769 | 4615 | 3714 | 3297 | 2885 | 2228 | | | | |
| | FEED | | | | 357 | 386 | 446 | 462 | 468 | 462 | 492 | 496 | 489 | 483 | 481 | 490 | 490 | | | | |
| Vc | 80 | | | | 95 | 105 | 105 | 110 | 105 | 105 | 110 | 105 | 105 | 105 | 110 | 105 | | | | | |
| fz | 0.004 | | | | 0.007 | 0.01 | 0.015 | 0.019 | 0.025 | 0.033 | 0.043 | 0.055 | 0.066 | 0.078 | 0.085 | 0.11 | | | | | |
| RPM | 25465 | 20160 | 16711 | 11141 | 8754 | 6685 | 5570 | 4377 | 3342 | 2785 | 2387 | 2188 | 1671 | | | | | | | | |
| FEED | 204 | 282 | 334 | 334 | 333 | 334 | 368 | 376 | 368 | 368 | 372 | 372 | 368 | | | | | | | | |
| 26-28 | Copper and Copper Alloys (Bronze / Brass) | 1.0D | 1.0D | Vc | 80 | 95 | 105 | 105 | 110 | 105 | 105 | 110 | 105 | 105 | 110 | 105 | | | | | |
| | | | | fz | 0.004 | 0.007 | 0.01 | 0.015 | 0.019 | 0.025 | 0.033 | 0.043 | 0.055 | 0.066 | 0.078 | 0.085 | 0.11 | | | | |
| RPM | | | | 25465 | 20160 | 16711 | 11141 | 8754 | 6685 | 5570 | 4377 | 3342 | 2785 | 2387 | 2188 | 1671 | | | | | |
| FEED | | | | 204 | 282 | 334 | 334 | 333 | 334 | 368 | 376 | 368 | 368 | 372 | 372 | 368 | | | | | |
| Vc | | | | 80 | 95 | 105 | 105 | 110 | 105 | 105 | 110 | 105 | 105 | 105 | 110 | 105 | | | | | |
| fz | | | | 0.004 | 0.007 | 0.01 | 0.015 | 0.019 | 0.025 | 0.033 | 0.043 | 0.055 | 0.066 | 0.078 | 0.085 | 0.11 | | | | | |
| RPM | 25465 | 20160 | 16711 | 11141 | 8754 | 6685 | 5570 | 4377 | 3342 | 2785 | 2387 | 2188 | 1671 | | | | | | | | |
| FEED | 204 | 282 | 334 | 334 | 333 | 334 | 368 | 376 | 368 | 368 | 372 | 372 | 368 | | | | | | | | |
| 29.1 | Non Metallic Materials | 1.0D | 1.0D | Vc | 80 | 95 | 105 | 105 | 110 | 105 | 105 | 110 | 105 | 105 | 110 | 105 | | | | | |
| | | | | fz | 0.004 | 0.007 | 0.01 | 0.015 | 0.019 | 0.025 | 0.033 | 0.043 | 0.055 | 0.066 | 0.078 | 0.085 | 0.11 | | | | |
| RPM | | | | 25465 | 20160 | 16711 | 11141 | 8754 | 6685 | 5570 | 4377 | 3342 | 2785 | 2387 | 2188 | 1671 | | | | | |
| FEED | | | | 204 | 282 | 334 | 334 | 333 | 334 | 368 | 376 | 368 | 368 | 372 | 372 | 368 | | | | | |
| Vc | | | | 80 | 95 | 105 | 105 | 110 | 105 | 105 | 110 | 105 | 105 | 105 | 110 | 105 | | | | | |
| fz | | | | 0.004 | 0.007 | 0.01 | 0.015 | 0.019 | 0.025 | 0.033 | 0.043 | 0.055 | 0.066 | 0.078 | 0.085 | 0.11 | | | | | |
| RPM | 25465 | 20160 | 16711 | 11141 | 8754 | 6685 | 5570 | 4377 | 3342 | 2785 | 2387 | 2188 | 1671 | | | | | | | | |
| FEED | 204 | 282 | 334 | 334 | 333 | 334 | 368 | 376 | 368 | 368</ | | | | | | | | | | | |