

| Symbol | Shape         | Nose Angle | Figure |
|--------|---------------|------------|--------|
| S      | Square        | 90°        |        |
| T      | Triangular    | 60°        |        |
| C      | Rhombic       | 80°        |        |
| D      |               | 55°        |        |
| V      |               | 35°        |        |
| W      | Trigon        | 80°        |        |
| L      | Rectangular   | 90°        |        |
| A      | Parallelogram | 85°        |        |
| R      | Round         | —          |        |

| Symbol | Relief Angle |
|--------|--------------|
| C      | 7°           |
| D      | 15°          |
| E      | 20°          |
| N      | 0°           |
| P      | 11°          |

| Symbol | Tolerance (Inch) |                 |                  |
|--------|------------------|-----------------|------------------|
|        | Cutting Point    | Thickness       | Inscribed Circle |
| A      | ±0.0002          | ±0.0001         | ±0.0001          |
| F      | ±0.0002          | ±0.0001         | ±0.0005          |
| C      | ±0.0005          | ±0.0001         | ±0.0001          |
| H      | ±0.0005          | ±0.0001         | ±0.0005          |
| E      | ±0.001           | ±0.001          | ±0.001           |
| G      | ±0.001           | ±0.005          | ±0.001           |
| J      | ±0.0002          | ±0.002 ~ ±0.001 | ±0.005           |
| K      | ±0.0005          | ±0.002 ~ ±0.001 | ±0.005           |
| L      | ±0.001           | ±0.002 ~ ±0.001 | ±0.005           |
| M      | ±0.003 ~ ±0.007  | ±0.005          | ±0.002 ~ ±0.005  |
| N      | ±0.003 ~ ±0.007  | ±0.001          | ±0.002 ~ ±0.005  |
| U      | ±0.005 ~ ±0.015  | ±0.005          | ±0.003 ~ ±0.01   |

**T N M G 3 3 2 GM**

| Chipbreaker and Hole |  |  |              |                         |
|----------------------|--|--|--------------|-------------------------|
| Symbol               | Hole   | Shape of Hole                                    | Chipbreaker  | Shape of Insert Section |
| N                    | Without  | —  | Without      |                         |
| R                    |  |  | Single side  |                         |
| F                    |  |  | Double sided |                         |
| A                    | With   | Cylindrical                                      | Without      |                         |
| M                    |  |  | Single side  |                         |
| G                    |  |  | Double sided |                         |
| W                    |  | Partly cylindrical hole, with 40-60° countersink | Without      |                         |
| T                    |  |  | Single side  |                         |
| Q                    |  |  | Double sided |                         |
| U                    | Partly cylindrical hole, with 40-60° countersink on both sides | Without  |              |                         |
| B                    |  | Double sided                                     |              |                         |
| H                    | Partly cylindrical hole, with 70-80° countersink               | —  | Without      |                         |
| H                    |  |  | Single side  |                         |

| Size (I.C.)   |              |                 |          |
|---------------|--------------|-----------------|----------|
| Symbol        |              | Dimensions (in) |          |
| Normal Series | Small Series | I.C.            | Fraction |
| 1.2           | 5            | 0.156           | 5/32     |
| 1.5           | 6            | 0.187           | 3/16     |
| 1.8           | 7            | 0.219           | 7/32     |
| 2             | 8            | 0.250           | 1/4      |
| 2.5           | 0            | 0.313           | 5/16     |
| 3             | —            | 0.375           | 3/8      |
| 4             | —            | 0.500           | 1/2      |
| 5             | —            | 0.625           | 5/8      |
| 6             | —            | 0.750           | 3/4      |

| Thickness     |              |                 |      |
|---------------|--------------|-----------------|------|
| Symbol        |              | Thickness (In.) |      |
| Normal Series | Small Series | Thickness (In.) |      |
| —             | 2            | 0.062           | 1/16 |
| 1.5           | 3            | 0.094           | 3/32 |
| 2             | 4            | 0.125           | 1/8  |
| 2.5           | 5            | 0.156           | 5/32 |
| 3             | 6            | 0.187           | 3/16 |
| 3.5           | —            | 0.219           | 7/32 |
| 4             | —            | 0.250           | 1/4  |
| 5             | —            | 0.313           | 5/16 |
| 6             | —            | 0.375           | 3/8  |

| Corner Radius       |       |       |       |       |       |       |       |       |       |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Symbol              | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
| Corner Radius (In.) | 0.008 | 0.016 | 0.031 | 0.047 | 0.062 | 0.078 | 0.094 | 0.109 | 0.125 |
|                     | 1/128 | 1/64  | 1/32  | 3/64  | 1/16  | 5/64  | 3/32  | 7/64  | 1/8   |

| Chipbreaker Style |    |    |
|-------------------|----|----|
| AK                | GM | GR |
|                   |    |    |