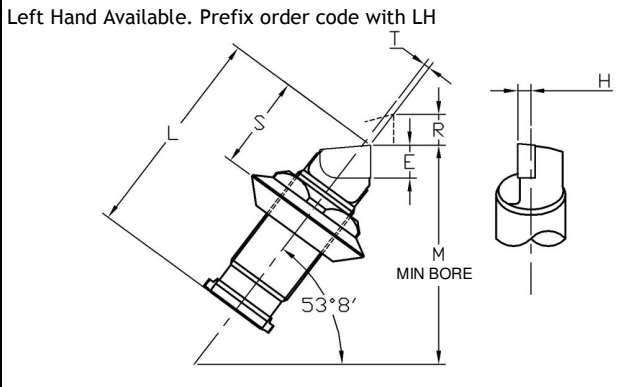


MICROBORE BRAZED CARBIDE UNITS



| Microbore Unit | Carbide Grades | Dimensions in mm | | | | | | |
|----------------|----------------|------------------|------|-----|-----|-----|-----|-----|
| | | L | M | R | S | T | H | E |
| M1A2**-40 | E, 12E, F & | 14.3 | 16.0 | 3.2 | 6.4 | 0.4 | 0.8 | 2.0 |
| M1B2**-40 | 12F | 11.5 | 13.3 | 1.2 | 6.4 | 0.4 | 0.8 | 2.0 |

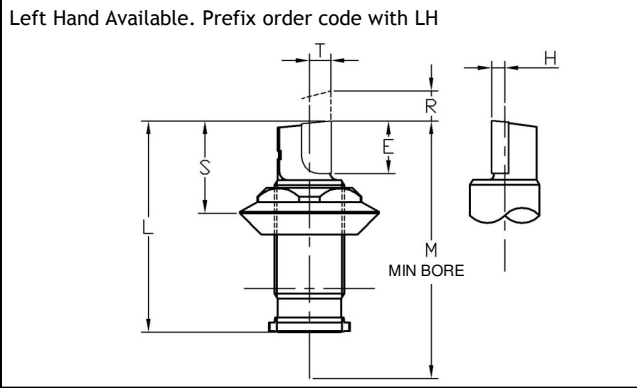
| | | | | | | | | |
|-----------|-------------|------|------|-----|-----|-----|-----|-----|
| M2A2**-40 | E, 12E, F & | 19.8 | 21.0 | 4.4 | 8.7 | 0.4 | 1.2 | 2.8 |
| M2B2**-40 | 12F | 16.7 | 18.7 | 2.0 | 8.7 | 0.4 | 1.2 | 2.8 |

| | | | | | | | | |
|-----------|-------------|------|------|-----|------|-----|-----|-----|
| M3A2**-40 | E, 12E, F & | 25.4 | 26.2 | 6.4 | 11.1 | 0.8 | 1.6 | 3.2 |
| M3B2**-40 | 12F | 21.4 | 23.0 | 3.2 | 11.1 | 0.8 | 1.6 | 3.2 |

| | | | | | | | | |
|-----------|-------------|------|------|------|------|-----|-----|-----|
| M5A2**-40 | E, 12E, F & | 39.7 | 41.3 | 10.3 | 16.0 | 1.2 | 2.4 | 6.4 |
| M5B2**-40 | 12F | 33.3 | 35.7 | 5.6 | 16.0 | 1.2 | 2.4 | 6.4 |

| | | | | | | | | |
|-----------|-------------|------|------|------|------|------|-----|------|
| M7A2**-80 | E, 12E, F & | 55.6 | 58.7 | 12.7 | 25.4 | -1.6 | 3.2 | 15.1 |
| M7B2**-80 | 12F | 49.2 | 53.2 | 7.9 | 25.4 | -1.6 | 3.2 | 15.1 |

| | | | | | | | | |
|------------|-------------|------|------|------|------|------|-----|------|
| M10A2**-80 | E, 12E, F & | 76.2 | 78.6 | 22.2 | 31.8 | -0.8 | 4.8 | 19.1 |
| M10B2**-80 | 12F | 63.5 | 68.3 | 12.7 | 31.8 | -0.8 | 4.8 | 19.1 |



| Microbore Unit | Carbide Grades | Dimensions in mm | | | | | | |
|----------------|----------------|------------------|------|-----|-----|-----|-----|-----|
| | | L | M | R | S | T | H | E |
| M1A5**-50 | E, 12E, F & | 14.3 | 18.3 | 4.0 | 6.4 | 1.6 | 0.8 | 3.2 |
| M1B5**-50 | 12F | 11.5 | 15.1 | 1.6 | 6.4 | 1.6 | 0.8 | 3.2 |

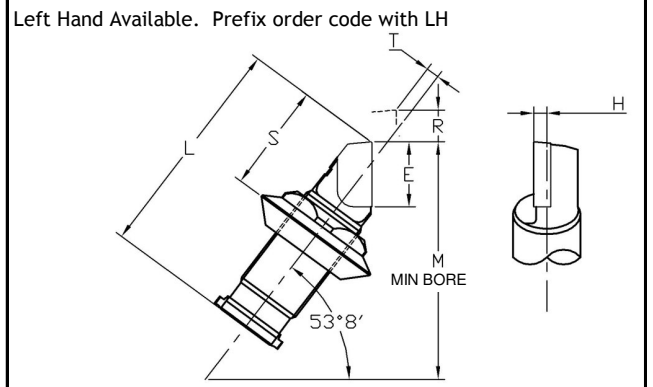
| | | | | | | | | |
|-----------|-------------|------|------|-----|-----|-----|-----|-----|
| M2A5**-50 | E, 12E, F & | 19.8 | 24.2 | 5.6 | 8.7 | 2.0 | 1.2 | 4.0 |
| M2B5**-50 | 12F | 16.7 | 21.0 | 2.4 | 8.7 | 2.0 | 1.2 | 4.0 |

| | | | | | | | | |
|-----------|-------------|------|------|-----|------|-----|-----|-----|
| M3A5**-50 | E, 12E, F & | 25.4 | 31.0 | 7.9 | 11.1 | 2.4 | 1.6 | 5.6 |
| M3B5**-50 | 12F | 21.4 | 27.0 | 4.0 | 11.1 | 2.4 | 1.6 | 5.6 |

| | | | | | | | | |
|-----------|-------------|------|------|------|------|-----|-----|-----|
| M5A5**-50 | E, 12E, F & | 39.7 | 48.4 | 13.5 | 16.0 | 4.0 | 2.4 | 9.1 |
| M5B5**-50 | 12F | 33.3 | 42.1 | 7.1 | 16.0 | 4.0 | 2.4 | 9.1 |

| | | | | | | | | |
|------------|-------------|------|------|------|------|-----|-----|------|
| M7A5**-100 | E, 12E, F & | 55.6 | 66.7 | 16.7 | 25.4 | 6.4 | 3.2 | 15.9 |
| M7B5**-100 | 12F | 49.2 | 60.3 | 10.3 | 25.4 | 6.4 | 3.2 | 15.9 |

| | | | | | | | | |
|-------------|-------------|------|------|------|------|-----|-----|------|
| M10A5**-100 | E, 12E, F & | 76.2 | 88.9 | 28.6 | 31.8 | 9.5 | 4.8 | 19.1 |
| M10B5**-100 | 12F | 63.5 | 76.2 | 15.9 | 31.8 | 9.5 | 4.8 | 19.1 |



| Microbore Unit | Carbide Grades | Dimensions in mm | | | | | | |
|----------------|----------------|------------------|------|-----|-----|-----|-----|-----|
| | | L | M | R | S | T | H | E |
| M1A3**-40 | E, 12E, F & | 15.1 | 17.5 | 3.2 | 7.1 | 0.8 | 0.8 | 3.6 |
| M1B3**-40 | 12F | 12.3 | 14.9 | 1.2 | 7.1 | 0.8 | 0.8 | 3.6 |

| | | | | | | | | |
|-----------|-------------|------|------|-----|------|-----|-----|-----|
| M2A3**-40 | E, 12E, F & | 21.4 | 23.0 | 4.4 | 10.3 | 1.2 | 1.2 | 5.6 |
| M2B3**-40 | 12F | 18.3 | 20.6 | 2.0 | 10.3 | 1.2 | 1.2 | 5.6 |

| | | | | | | | | |
|-----------|-------------|------|------|-----|------|-----|-----|-----|
| M3A3**-40 | E, 12E, F & | 27.0 | 29.4 | 6.4 | 12.7 | 1.6 | 1.6 | 7.5 |
| M3B3**-40 | 12F | 23.0 | 26.2 | 3.2 | 12.7 | 1.6 | 1.6 | 7.5 |

| | | | | | | | | |
|-----------|-------------|------|------|------|------|-----|-----|------|
| M5A3**-40 | E, 12E, F & | 42.9 | 46.0 | 10.3 | 19.1 | 2.4 | 2.4 | 11.9 |
| M5B3**-40 | 12F | 36.5 | 40.5 | 5.6 | 19.1 | 2.4 | 2.4 | 11.9 |

| | | | | | | | | |
|-----------|-------------|------|------|------|------|-----|-----|------|
| M7A3**-80 | E, 12E, F & | 58.7 | 62.7 | 12.7 | 28.6 | 4.8 | 3.2 | 19.8 |
| M7B3**-80 | 12F | 52.4 | 57.9 | 7.9 | 28.6 | 4.8 | 3.2 | 19.8 |

| | | | | | | | | |
|------------|-------------|------|------|------|------|-----|-----|------|
| M10A3**-80 | E, 12E, F & | 82.6 | 86.5 | 22.2 | 38.1 | 6.4 | 4.8 | 27.8 |
| M10B3**-80 | 12F | 69.9 | 76.2 | 12.7 | 38.1 | 6.4 | 4.8 | 27.8 |

Alternative style units and lead angles can be supplied to order. Please enquire for delivery time.

When ordering please add the carbide grade to the Microbore part No. in the space provided. Eg. M5A2**-40 could become M5A2**12E**-40 when the appropriate carbide grade is added.

Dimension 'T' is measured to sharp corner, a minus sign denotes corner is behind unit centreline.