

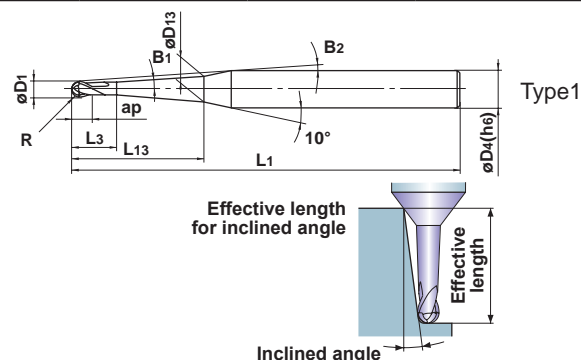
MS2XB

Ball nose, 2 flute, Taper neck



CARBIDE

| Carbon Steel, Alloy Steel, Cast Iron (≤30HRC) | Tool Steel, Pre-Hardened Steel, Hardened Steel (≤45HRC) | Hardened Steel (≤55HRC) | Hardened Steel (>55HRC) | Austenitic Stainless Steel | Titanium Alloy, Heat Resistant Alloy | Copper Alloy | Aluminium Alloy |
|--|--|----------------------------|----------------------------|-------------------------------|---|--------------|-----------------|
| ○ | ○ | ○ | | ○ | ○ | | |



| | | | | | |
|-------|-----------------------|-------------|--|--|--|
| R | $0.1 \leq R \leq 2$ | | | | |
| | ± 0.01 | | | | |
| D_1 | $0.2 \leq D_1 \leq 4$ | | | | |
| | $0 - 0.020$ | | | | |
| h_6 | $4 \leq D_4 \leq 6$ | $D_4 = 8$ | | | |
| | $0 - 0.008$ | $0 - 0.009$ | | | |

● 2 flute taper neck ball nose end mill.

Unit : mm

| Order Number | R | D1 | B1 | ap | L13 | L3 | B2 | D13 | L1 | D4 | Flutes | Stock | Type | Effective length for inclined angle | | | |
|---------------------|------|-----|-------|-----|-----|-----|------|------|----|----|--------|-------|------|-------------------------------------|-----|-----|-----|
| | | | | | | | | | | | | | | 30° | 1° | 2° | 3° |
| MS2XBR0010T0030L015 | 0.1 | 0.2 | 30' | 0.2 | 1.5 | 0.6 | 8.8° | 0.19 | 50 | 4 | 2 | ★ | 1 | 1.7 | 1.8 | 2.0 | 2.3 |
| R0010T0030L020 | 0.1 | 0.2 | 30' | 0.2 | 2 | 0.6 | 8.5° | 0.20 | 50 | 4 | 2 | ★ | 1 | 2.2 | 2.4 | 2.6 | 3.0 |
| R0010T0100L015 | 0.1 | 0.2 | 1° | 0.2 | 1.5 | 0.6 | 8.8° | 0.21 | 50 | 4 | 2 | ★ | 1 | — | 1.8 | 2.0 | 2.2 |
| R0010T0100L020 | 0.1 | 0.2 | 1° | 0.2 | 2 | 0.6 | 8.5° | 0.22 | 50 | 4 | 2 | ★ | 1 | — | 2.3 | 2.5 | 2.9 |
| R0010T0130L015 | 0.1 | 0.2 | 1°30' | 0.2 | 1.5 | 0.6 | 8.9° | 0.22 | 50 | 4 | 2 | ★ | 1 | — | — | 1.9 | 2.2 |
| R0010T0130L020 | 0.1 | 0.2 | 1°30' | 0.2 | 2 | 0.6 | 8.6° | 0.25 | 50 | 4 | 2 | ★ | 1 | — | — | 2.4 | 2.8 |
| R0010T0200L015 | 0.1 | 0.2 | 2° | 0.2 | 1.5 | 0.6 | 8.9° | 0.24 | 50 | 4 | 2 | ★ | 1 | — | — | 1.8 | 2.1 |
| R0010T0200L020 | 0.1 | 0.2 | 2° | 0.2 | 2 | 0.6 | 8.6° | 0.27 | 50 | 4 | 2 | ★ | 1 | — | — | 2.3 | 2.6 |
| R0010T0300L015 | 0.1 | 0.2 | 3° | 0.2 | 1.5 | 0.6 | 9.0° | 0.27 | 50 | 4 | 2 | ★ | 1 | — | — | — | 1.9 |
| R0010T0300L020 | 0.1 | 0.2 | 3° | 0.2 | 2 | 0.6 | 8.7° | 0.32 | 50 | 4 | 2 | ★ | 1 | — | — | — | 2.4 |
| R0010T0500L020 | 0.1 | 0.2 | 5° | 0.2 | 2 | 0.6 | 9.0° | 0.42 | 50 | 4 | 2 | ★ | 1 | — | — | — | — |
| R0015T0030L030 | 0.15 | 0.3 | 30' | 0.3 | 3 | 0.7 | 7.9° | 0.32 | 50 | 4 | 2 | ★ | 1 | 3.2 | 3.4 | 3.8 | 4.3 |
| R0015T0100L030 | 0.15 | 0.3 | 1° | 0.3 | 3 | 0.7 | 7.9° | 0.36 | 50 | 4 | 2 | ★ | 1 | — | 3.3 | 3.7 | 4.2 |
| R0015T0130L030 | 0.15 | 0.3 | 1°30' | 0.3 | 3 | 0.7 | 8.0° | 0.40 | 50 | 4 | 2 | ★ | 1 | — | — | 3.5 | 4.0 |
| R0015T0200L030 | 0.15 | 0.3 | 2° | 0.3 | 3 | 0.7 | 8.1° | 0.44 | 50 | 4 | 2 | ★ | 1 | — | — | 3.3 | 3.8 |
| R0015T0300L030 | 0.15 | 0.3 | 3° | 0.3 | 3 | 0.7 | 8.2° | 0.52 | 50 | 4 | 2 | ★ | 1 | — | — | — | 3.4 |
| R0015T0500L030 | 0.15 | 0.3 | 5° | 0.3 | 3 | 0.7 | 8.6° | 0.68 | 50 | 4 | 2 | ★ | 1 | — | — | — | — |
| R0020T0030L020 | 0.2 | 0.4 | 30' | 0.4 | 2 | 1.2 | 8.4° | 0.38 | 50 | 4 | 2 | ★ | 1 | 2.3 | 2.4 | 2.7 | 3.0 |
| R0020T0030L030 | 0.2 | 0.4 | 30' | 0.4 | 3 | 1.2 | 7.8° | 0.40 | 50 | 4 | 2 | ★ | 1 | 3.3 | 3.5 | 3.9 | 4.4 |
| R0020T0030L040 | 0.2 | 0.4 | 30' | 0.4 | 4 | 1.2 | 7.3° | 0.41 | 50 | 4 | 2 | ★ | 1 | 4.3 | 4.5 | 5.1 | 5.7 |
| R0020T0030L050 | 0.2 | 0.4 | 30' | 0.4 | 5 | 1.2 | 6.8° | 0.43 | 50 | 4 | 2 | ★ | 1 | 5.3 | 5.6 | 6.2 | 7.1 |
| R0020T0100L020 | 0.2 | 0.4 | 1° | 0.4 | 2 | 1.2 | 8.4° | 0.39 | 50 | 4 | 2 | ★ | 1 | — | 2.3 | 2.6 | 3.0 |
| R0020T0100L030 | 0.2 | 0.4 | 1° | 0.4 | 3 | 1.2 | 7.9° | 0.43 | 50 | 4 | 2 | ★ | 1 | — | 3.3 | 3.7 | 4.2 |
| R0020T0100L040 | 0.2 | 0.4 | 1° | 0.4 | 4 | 1.2 | 7.4° | 0.46 | 50 | 4 | 2 | ★ | 1 | — | 4.3 | 4.9 | 5.5 |
| R0020T0100L050 | 0.2 | 0.4 | 1° | 0.4 | 5 | 1.2 | 6.9° | 0.50 | 50 | 4 | 2 | ★ | 1 | — | 5.3 | 6.0 | 6.8 |
| R0020T0130L020 | 0.2 | 0.4 | 1°30' | 0.4 | 2 | 1.2 | 8.5° | 0.41 | 50 | 4 | 2 | ★ | 1 | — | — | 2.5 | 2.9 |
| R0020T0130L030 | 0.2 | 0.4 | 1°30' | 0.4 | 3 | 1.2 | 7.9° | 0.46 | 50 | 4 | 2 | ★ | 1 | — | — | 3.6 | 4.1 |
| R0020T0130L040 | 0.2 | 0.4 | 1°30' | 0.4 | 4 | 1.2 | 7.5° | 0.51 | 50 | 4 | 2 | ★ | 1 | — | — | 4.7 | 5.3 |
| R0020T0130L050 | 0.2 | 0.4 | 1°30' | 0.4 | 5 | 1.2 | 7.0° | 0.56 | 50 | 4 | 2 | ★ | 1 | — | — | 5.7 | 6.5 |
| R0020T0200L020 | 0.2 | 0.4 | 2° | 0.4 | 2 | 1.2 | 8.5° | 0.42 | 50 | 4 | 2 | ★ | 1 | — | — | 2.5 | 2.8 |
| R0020T0200L030 | 0.2 | 0.4 | 2° | 0.4 | 3 | 1.2 | 8.0° | 0.49 | 50 | 4 | 2 | ★ | 1 | — | — | 3.5 | 4.0 |
| R0020T0200L040 | 0.2 | 0.4 | 2° | 0.4 | 4 | 1.2 | 7.5° | 0.56 | 50 | 4 | 2 | ★ | 1 | — | — | 4.5 | 5.1 |
| R0020T0200L050 | 0.2 | 0.4 | 2° | 0.4 | 5 | 1.2 | 7.1° | 0.63 | 50 | 4 | 2 | ★ | 1 | — | — | 5.5 | 6.2 |
| R0025T0030L030 | 0.25 | 0.5 | 30' | 0.5 | 3 | 1.5 | 7.8° | 0.49 | 50 | 4 | 2 | ★ | 1 | 3.3 | 3.5 | 3.9 | 4.4 |

★ : Inventory maintained in Japan.