

## Ground Tool Bits High Speed Steel and cobalt

- This general purpose tool gives exceptional results on mild steel, alloys, tool steels
- Ideal for finishing applications



Square

| Size (inch) | Overall Length | Model No. |            |            |
|-------------|----------------|-----------|------------|------------|
|             |                | M2 HSS    | Cobalt M35 | M42        |
| 1/8"        | 2-1/2          | BTS-1/8   | BTSC1-1/8  | BTSC2-1/8  |
| 3/16"       | 2-1/2          | BTS-3/16  | BTSC1-3/16 | BTSC2-3/16 |
| 1/4"        | 2-1/2          | BTS-1/4   | BTSC1-1/4  | BTSC2-1/4  |
| 5/16"       | 2-1/2          | BTS-5/16  | BTSC1-5/16 | BTSC2-5/16 |
| 3/8"        | 3              | BTS-3/8   | BTSC1-3/8  | BTSC2-3/8  |
| 7/16"       | 3-1/2          | BTS-7/16  | BTSC1-7/16 | BTSC2-7/16 |
| 1/2"        | 4              | BTS-1/2   | BTSC1-1/2  | BTSC2-1/2  |
| 5/8"        | 4-1/2          | BTS-5/8   | BTSC1-5/8  | BTSC2-5/8  |
| 3/4"        | 5              | BTS-3/4   | BTSC1-3/4  | BTSC2-3/4  |
| 7/8"        | 6              | BTS-7/8   | BTSC1-7/8  | BTSC2-7/8  |
| 1"          | 7              | BTS-1     | BTSC1-1    | BTSC2-1    |

Square

| Size (mm) | Overall Length | Model No. |            |          |
|-----------|----------------|-----------|------------|----------|
|           |                | M2 HSS    | Cobalt M35 | M42      |
| 3         | 100            | BTSM-3    | BTSC1-3    | BTSC2-3  |
| 5         | 100            | BTSM-5    | BTSC1-5    | BTSC2-5  |
| 6         | 200            | BTSM-6    | BTSC1-6    | BTSC2-6  |
| 8         | 125            | BTSM-8    | BTSC1-8    | BTSC2-8  |
| 10        | 200            | BTSM-10   | BTSC1-10   | BTSC2-10 |
| 12        | 200            | BTSM-12   | BTSC1-12   | BTSC2-12 |
| 16        | 150            | BTSM-16   | BTSC1-16   | BTSC2-16 |
| 20        | 100            | BTSM-20   | BTSC1-20   | BTSC2-20 |
| 25        | 150            | BTSM-25   | BTSC1-25   | BTSC2-25 |
| 32        | 100            | BTSM-32   | BTSC1-32   | BTSC2-32 |



Rectangular

| Size (inch)      | Model No.           |                       |                       |
|------------------|---------------------|-----------------------|-----------------------|
|                  | M2 HSS              | Cobalt M35            | M42                   |
| 1/4 x 3/8 x 3"   | BTR-1/4 x 3         | BTRC1-1/4 x 3         | BTRC2-1/4 x 3         |
| 1/4 x 1/2 x 4"   | BTR-1/4 x 4         | BTRC1-1/4 x 4         | BTRC2-1/4 x 4         |
| 1/4 x 3/4 x 5"   | BTR-1/4 x 5         | BTRC1-1/4 x 5         | BTRC2-1/4 x 5         |
| 1/4 x 1" x 6"    | BTR-1/4 x 6         | BTRC1-1/4 x 6         | BTRC2-1/4 x 6         |
| 3/8 x 1/2 x 4"   | BTR-3/8 x 4         | BTRC1-3/8 x 4         | BTRC2-3/8 x 4         |
| 3/8 x 5/8 x 5"   | BTR-3/8 x 5         | BTRC1-3/8 x 5         | BTRC2-3/8 x 5         |
| 3/8 x 3/4 x 5"   | BTR-3/8 x 3/4       | BTRC1-3/8 x 3/4       | BTRC2-3/8 x 3/4       |
| 3/8 x 1" x 6"    | BTR-3/8 x 6         | BTRC1-3/8 x 6         | BTRC2-3/8 x 6         |
| 1/2 x 3/4 x 5"   | BTR-1/2 x 5         | BTRC1-1/2 x 5         | BTRC2-1/2 x 5         |
| 1/2 x 1" x 7"    | BTR-1/2 x 7         | BTRC1-1/2 x 7         | BTRC2-1/2 x 7         |
| 1/2 x 1-1/2 x 7" | BTR-1/2 x 1-1/2 x 7 | BTRC1-1/2 x 1-1/2 x 7 | BTRC2-1/2 x 1-1/2 x 7 |
| 5/8 x 3/4 x 5"   | BTR-5/8 x 5         | BTRC1-5/8 x 5         | BTRC2-5/8 x 5         |
| 5/8 x 1" x 6"    | BTR-5/8 x 6         | BTRC1-5/8 x 6         | BTRC2-5/8 x 6         |
| 5/8 x 1-1/4 x 7" | BTR-5/8 x 7         | BTRC1-5/8 x 7         | BTRC2-5/8 x 7         |
| 3/4 x 1" x 6"    | BTR-3/4 x 1         | BTRC1-3/4 x 1         | BTRC2-3/4 x 1         |
| 3/4 x 1-1/4 x 6" | BTR-3/4 x 1-1/4     | BTRC1-3/4 x 1-1/4     | BTRC2-3/4 x 1-1/4     |

Rectangular

| Size (mm)     | Model No.      |                 |                 |
|---------------|----------------|-----------------|-----------------|
|               | M2 HSS         | Cobalt M35      | M42             |
| 6 x 10 x 100  | BTRM-6/10/100  | BTRC1-6/10/100  | BTRC2-6/10/100  |
| 6 x 13 x 150  | BTRM-6/13/150  | BTRC1-6/13/150  | BTRC2-6/13/150  |
| 6 x 20 x 150  | BTRM-6/20/150  | BTRC1-6/20/150  | BTRC2-6/20/150  |
| 8 x 10 x 100  | BTRM-8/10/100  | BTRC1-8/10/100  | BTRC2-8/10/100  |
| 10 x 16 x 100 | BTRM-10/16/100 | BTRC1-10/16/100 | BTRC2-10/16/100 |
| 10 x 16 x 150 | BTRM-10/16/150 | BTRC1-10/16/150 | BTRC2-10/16/150 |
| 10 x 25 x 150 | BTRM-10/25/150 | BTRC1-10/25/150 | BTRC2-10/25/150 |
| 13 x 20 x 150 | BTRM-13/20/150 | BTRC1-13/20/150 | BTRC2-13/20/150 |
| 13 x 38 x 175 | BTRM-13/38/175 | BTRC1-13/38/175 | BTRC2-13/38/175 |
| 16 x 22 x 150 | BTRM-16/22/150 | BTRC1-16/22/150 | BTRC2-16/22/150 |
| 16 x 25 x 175 | BTRM-16/25/175 | BTRC1-16/25/175 | BTRC2-16/25/175 |
| 16 x 32 x 150 | BTRM-16/32/150 | BTRC1-16/32/150 | BTRC2-16/32/150 |
| 16 x 38 x 150 | BTRM-16/38/150 | BTRC1-16/38/150 | BTRC2-16/38/150 |
| 22 x 32 x 150 | BTRM-22/32/150 | BTRC1-22/32/150 | BTRC2-22/32/150 |
| 22 x 38 x 175 | BTRM-22/38/175 | BTRC1-22/38/175 | BTRC2-22/38/175 |
| 25 x 32 x 175 | BTRM-25/32/175 | BTRC1-25/32/175 | BTRC2-25/32/175 |



Extra Length Square

| Size (inch) | Overall Length | Model No. |            |            |
|-------------|----------------|-----------|------------|------------|
|             |                | M2 HSS    | Cobalt M35 | M42        |
| 1/4"        | 6              | BTLS-1/4  | BTLC1-1/4  | BTLC2-1/4  |
| 5/16"       | 6              | BTLS-5/16 | BTLC1-5/16 | BTLC2-5/16 |
| 3/8"        | 6              | BTLS-3/8  | BTLC1-3/8  | BTLC2-3/8  |
| 3/8"        | 8              | BTLS-3/8  | BTLC1-3/8  | BTLC2-3/8  |
| 1/2"        | 6              | BTLS-1/2  | BTLC1-1/2  | BTLC2-1/2  |
| 1/2"        | 8              | BTLS-1/2  | BTLC1-1/2  | BTLC2-1/2  |
| 5/8"        | 8              | BTLS-5/8  | BTLC1-5/8  | BTLC2-5/8  |
| 3/4"        | 8              | BTLS-3/4  | BTLC1-3/4  | BTLC2-3/4  |

Extra Length Square

| Size (mm) | Overall Length | Model No.      |                |                |
|-----------|----------------|----------------|----------------|----------------|
|           |                | M2 HSS         | Cobalt M35     | M42            |
| 6.35      | 152            | BTLSM-6/152    | BTLC1-6/152    | BTLC2-6/152    |
| 7.94      | 152            | BTLSM-8/152    | BTLC1-8/152    | BTLC2-8/152    |
| 9.50      | 152            | BTLSM-9.5/152  | BTLC1-9.5/152  | BTLC2-9.5/152  |
| 9.50      | 203            | BTLSM-9.5/203  | BTLC1-9.5/203  | BTLC2-9.5/203  |
| 12.70     | 152            | BTLSM-12.7/203 | BTLC1-12.7/203 | BTLC2-12.7/203 |
| 12.70     | 203            | BTLSM-12.7/203 | BTLC1-12.7/203 | BTLC2-12.7/203 |
| 15.90     | 203            | BTLSM-15.9/203 | BTLC1-15.9/203 | BTLC2-15.9/203 |
| 19.10     | 203            | BTLSM-19.1/203 | BTLC1-19.1/203 | BTLC2-19.1/203 |



Round

| Size (inch) | Overall Length | Model No. |            |            |
|-------------|----------------|-----------|------------|------------|
|             |                | M2 HSS    | Cobalt M35 | M42        |
| 1/8"        | 2-3/4          | BTR-1/8   | BTRC1-1/8  | BTRC2-1/8  |
| 3/16"       | 3-1/2          | BTR-3/16  | BTRC1-3/16 | BTRC2-3/16 |
| 1/4"        | 4              | BTR-1/4   | BTRC1-1/4  | BTRC2-1/4  |
| 5/16"       | 4-1/2          | BTR-5/16  | BTRC1-5/16 | BTRC2-5/16 |
| 3/8"        | 5              | BTR-3/8   | BTRC1-3/8  | BTRC2-3/8  |
| 7/16"       | 5-1/2          | BTR-7/16  | BTRC1-7/16 | BTRC2-7/16 |
| 1/2"        | 6              | BTR-1/2   | BTRC1-1/2  | BTRC2-1/2  |
| 9/16"       | 6              | BTR-9/16  | BTRC1-9/16 | BTRC2-9/16 |
| 5/8"        | 6              | BTR-5/8   | BTRC1-5/8  | BTRC2-5/8  |
| 3/4"        | 6              | BTR-3/4   | BTRC1-3/4  | BTRC2-3/4  |

Round

| Size (mm) | Overall Length | Model No.   |              |              |
|-----------|----------------|-------------|--------------|--------------|
|           |                | M2 HSS      | Cobalt M35   | M42          |
| 2.5       | 50             | BTRM-2.5/50 | BTRC1-2.5/50 | BTRC2-2.5/50 |
| 4         | 80             | BTRM-4/80   | BTRC1-4/80   | BTRC2-4/80   |
| 6         | 100            | BTRM-6/100  | BTRC1-6/100  | BTRC2-6/100  |
| 8         | 100            | BTRM-8/100  | BTRC1-8/100  | BTRC2-8/100  |
| 10        | 150            | BTRM-10/150 | BTRC1-10/150 | BTRC2-10/150 |
| 12        | 200            | BTRM-12/200 | BTRC1-12/200 | BTRC2-12/200 |
| 16        | 100            | BTRM-16/100 | BTRC1-16/100 | BTRC2-16/100 |
| 16        | 200            | BTRM-16/200 | BTRC1-16/200 | BTRC2-16/200 |
| 20        | 100            | BTRM-20/100 | BTRC1-20/100 | BTRC2-20/100 |
| 18        | 150            | BTRM-18/150 | BTRC1-18/150 | BTRC2-18/150 |

## Carbide-Tipped Single-Point Braze Tool Bits

Right Hand Cuts from Right to Left  
Left Hand Cuts from Left to Right

| Code | Grade Chart Applications                         |
|------|--|
| C2   | General-Purpose-Cast Iron & Nonferrous Materials |
| C6   | General-Purpose-Steel                            |

### Style-a Straight Turning Tools

For: General Machining Applications, Turning, Facing, Boring and Chamfering.



### Style-b 15° lead Angle Turning Tools

For: General Application Turning, Facing and Boring where a lead angle may be used



### Style-c



For: General Purpose Grooving, Turning, Facing and Chamfering

### Style-d 80° included Angle



For: Turning, Plunging, Facing, Boring and Chamfering

### Style-e 60° included Angle Threading Tools



For: Threading, V-Grooving, Chamfering, Turning, Facing and Boring

| Tool Style Model No. | Tool Dimensions Square Size | OAL    |
|----------------------|-----------------------------|--------|
| C4C-2                | 1/4"                        | 2"     |
| C4C-6                | 1/4"                        | 2"     |
| C5C-2                | 5/16"                       | 2-1/4" |
| C5C-6                | 5/16"                       | 2-1/4" |
| C6C-2                | 3/8"                        | 2-1/2" |
| C6C-6                | 3/8"                        | 2-1/2" |
| C7C-2                | 7/16"                       | 3"     |
| C7C-6                | 7/16"                       | 3"     |
| C8C-2                | 1/2"                        | 3-1/2" |
| C8C-6                | 1/2"                        | 3-1/2" |
| C10C-2               | 5/8"                        | 4"     |
| C10C-6               | 5/8"                        | 4"     |
| C12C-2               | 3/4"                        | 4-1/2" |
| C12C-6               | 3/4"                        | 4-1/2" |

| Tool Style Model No. | Tool Dimensions Square Size | OAL    |
|----------------------|-----------------------------|--------|
| D4C-2                | 1/4"                        | 2"     |
| D4C-6                | 1/4"                        | 2"     |
| D5C-2                | 5/16"                       | 2-1/4" |
| D5C-6                | 5/16"                       | 2-1/4" |
| D6C-2                | 3/8"                        | 2-1/2" |
| D6C-6                | 3/8"                        | 2-1/2" |
| D7C-2                | 7/16"                       | 3"     |
| D7C-6                | 7/16"                       | 3"     |
| D8C-2                | 1/2"                        | 3-1/2" |
| D8C-6                | 1/2"                        | 3-1/2" |
| D10C-2               | 5/8"                        | 4"     |
| D10C-6               | 5/8"                        | 4"     |
| D12C-2               | 3/4"                        | 4-1/2" |
| D12C-6               | 3/4"                        | 4-1/2" |

| Tool Style Model No. | Tool Dimensions Square Size | OAL    |
|----------------------|-----------------------------|--------|
| E4C-2                | 1/4"                        | 2"     |
| E4C-6                | 1/4"                        | 2"     |
| E5C-2                | 5/16"                       | 2-1/4" |
| E5C-6                | 5/16"                       | 2-1/4" |
| E6C-2                | 3/8"                        | 2-1/2" |
| E6C-6                | 3/8"                        | 2-1/2" |
| E7C-2                | 7/16"                       | 3"     |
| E7C-6                | 7/16"                       | 3"     |
| E8C-2                | 1/2"                        | 3-1/2" |
| E8C-6                | 1/2"                        | 3-1/2" |
| E10C-2               | 5/8"                        | 4"     |
| E10C-6               | 5/8"                        | 4"     |
| E12C-2               | 3/4"                        | 4-1/2" |
| E12C-6               | 3/4"                        | 4-1/2" |