

## 11 degree tapered cross bit for rock drilling tools

Tapered cross bits deliver better drilling performance than tapered chisel bits because the number of tungsten carbide tips on cross bits is doubled, meaning the carbide tips on the bit face are arranged in a "cross" pattern.

### Key Features:

1. This tapered cross bit is forged from 45CrNiMoV alloy steel and Tungsten Carbide, specifically designed for rock drilling applications, providing a longer service life under various demanding drilling conditions.
2. Designed with flushing holes to efficiently discharge cuttings, waste fluid, and air bubbles, preventing jamming.
3. 7 degree taper angle for a tight fit with taper rods, ensuring efficient operation.
4. H22 or H25 taper rods are recommended.
5. This tapered cross bit is suitable for small hole drilling applications.
6. Tungsten carbide toughness: The bit incorporates the toughness of tungsten carbide to handle high-intensity drilling tasks, while maintaining the wear resistance and heat insulation properties of the steel body.



### **Technical Specifications**

- Bit diameter: 34 mm, 35 mm, 36 mm, 38 mm, 40 mm, 42 mm, 45 mm, and 50 mm available
- Tungsten carbide inserts: 12×8 mm and 16×10 mm available
- Taper: 7 degree, 11 degree, and 12 degree available
- Weight: 0.3 kg to 0.6 kg

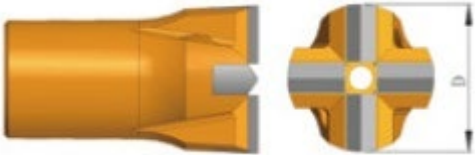
### **Recommendations for Use**

1. Ensure the taper bore of the bit and the taper of the rod are clean, and both are 7 degree taper.
2. Ensure sufficient flushing water and air pressure to remove cuttings, waste fluid, and air bubbles, and to cool the bit.
3. Allow the bit to cool naturally. Do not quench it in cold water to prevent thermal cracking.
4. To ensure normal service life, the tapered bit must be well matched with the taper rod, and the taper angle of the bit must be the same as that of the taper rod.
5. The effective insertion depth of the taper rod into the taper hole of the tapered bit should be over 25 mm, and the rod head must not touch the bottom of the taper hole of the bit; otherwise, the bit may loosen or even be lost during operation.

### Main Applications

The tapered cross bit is suitable for hard rock blasting drilling in mining, quarrying, and tunneling.

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| Taper bit、 Insert   | D  |         | Insert H x T | Taper    | Order number   | Weight kg |
|---|----|---------|--------------|----------|----------------|-----------|
|   | mm | inch    |              |          |                |           |
| Cross<br> | 34 | 1 11/32 | 12 x 8 mm    | 7 degree | B128-3412-2710 | 0.3       |
|   | 36 | 1 13/32 | 12 x 8 mm    |          | B128-3612-2710 | 0.4       |
|   | 38 | 1 1/2   | 12 x 8 mm    |          | B128-3812-2710 | 0.4       |
|   | 40 | 1 9/16  | 12 x 8 mm    |          | B128-4012-2710 | 0.5       |

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|-------------------|----|---------|--------------|-----------|----------------|-----------|
|                   | mm | inch    |              |           |                |           |
|                   | 42 | 1 5/8   | 12 x 8 mm    |           | B128-4212-2710 | 0.5       |
|                   | 45 | 1 3/4   | 12 x 8 mm    |           | B128-4512-5710 | 0.5       |
|                   | 50 | 1 31/32 | 16 x 10 mm   |           | B128-5016-5710 | 0.6       |
|                   | 32 | 1 1/4   | 12 x 8 mm    | 12 degree | B128-3212-2210 | 0.3       |
|                   | 35 | 1 3/8   | 12 x 8 mm    |           | B128-3512-2210 | 0.3       |

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|-------------------|----|--------|--------------|-----------|----------------|-----------|
|                   | mm | inch   |              |           |                |           |
|                   | 38 | 1 1/2  | 12 x 8 mm    |           | B128-3812-2210 | 0.4       |
|                   | 40 | 1 9/16 | 12 x 8 mm    |           | B128-4012-2210 | 0.5       |
|                   | 38 | 1 1/2  | 12 x 8 mm    | 11 degree | B128-3812-2110 | 0.4       |
|                   | 40 | 1 9/16 | 12 x 8 mm    |           | B128-4012-2110 | 0.5       |