

Drill With Confidence

A Comprehensive Guide To Selecting the Right Drill Bit



| Formation Hardness | Rock Stratum | Abrasiveness | Bit Matrix Series | | | | | | | | | | |
|--------------------|--|--------------|-------------------|----|----|----|----|----|-----|-----|-----|-----|-----|
| | | | 2# | 4# | 6# | 7# | 8# | 9# | 10# | 11# | 12# | 13# | 14# |
| Soft | Clay, Shale, Very Soft Sandstone, Peat, Argillaceous Rock, Volcanic Rock, Tuff, etc. | High | | | | | | | | | | | |
| | | Medium | | | | | | | | | | | |
| | | Low | | | | | | | | | | | |
| Medium Hard | Limestone, Rhyolite, Andesite, Marble, Hard Sandstone, Limonite, Muscovite, Schist, etc. | High | | | | | | | | | | | |
| | | Medium | | | | | | | | | | | |
| | | Low | | | | | | | | | | | |
| Hard | Basalt, Gneiss, Granodiorite, Hornstone, Pegmatite, Diabase, etc. | High | | | | | | | | | | | |
| | | Medium | | | | | | | | | | | |
| | | Low | | | | | | | | | | | |
| Super Hard | Hard Granite, Breccia, Quartzite, Hard Slate, Rhyolite, etc. | High | | | | | | | | | | | |
| | | Medium | | | | | | | | | | | |
| | | Low | | | | | | | | | | | |

Contact Us Today



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How Can We Help?

Don't waste your money drilling with products run and supplied by a "bit salesman". DRILL WITH APEX to balance your drilling objectives with your economic reality. From our fast and durable core bits to drilling fluids, we'll ensure you get the productive and profitable hole TD you need.

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Shape of Diamond Bit Face

Characteristics and Adaptability

Impregnated Core Drill Bit and Reaming Shell



Semicircle

Suitable for hard rock. Increasing the amount of diamond on the bit face, the drilling efficiency is high



Circular Arc

Suitable for medium-hard rock. The diamond on the bit face is well distributed and can adapt to a little broken and loose formations.



Flat

For impregnated diamond bits. Suitable for all kinds of hardness and abrasive strata.



Bottom Discharge

Suitable for sedimentary rocks, metamorphic rocks and other strata with more powdered ore. High coring rate can be achieved by avoiding excessive erosion of core



Stepped

Suitable for medium-hard rock, broken rock, broken and complete staggered rock. Hole unloading can be prevented



Coned

Suitable for soft to medium-hard rock formations. Faster drilling speed and higher strength.



Serrated

Suitable for hard dense rock formations. The drilling efficiency is high.

| Model | Drill Bit | | Reaming Shell |
|-------|-----------|-----------|---------------|
| | O.D. (mm) | I.D. (mm) | O.D. (mm) |
| BTW | 59.56 | 42.1 | 59.95 |
| NTW | 75.31 | 56.1 | 75.7 |
| HTW | 95.57 | 71.1 | 96.09 |
| A | 47.63 | 26.97 | 48.01 |
| B | 59.56 | 36.4 | 59.95 |
| B3 | 59.56 | 33.53 | 59.95 |
| N | 75.31 | 47.63 | 75.7 |
| N3 | 75.31 | 45.08 | 75.7 |
| N77 | 77.01 | 45.08 | 77.4 |
| H | 95.57 | 63.5 | 96.09 |
| H3 | 95.57 | 61.11 | 96.09 |
| H97 | 97.28 | 63.5 | 97.8 |
| HTT | 97.28 | 61.11 | 97.8 |
| HWL | 97.3 | 61.11 | 97.8 |
| P | 122.05 | 84.96 | 122.65 |
| P3 | 122.05 | 83.06 | 122.65 |