



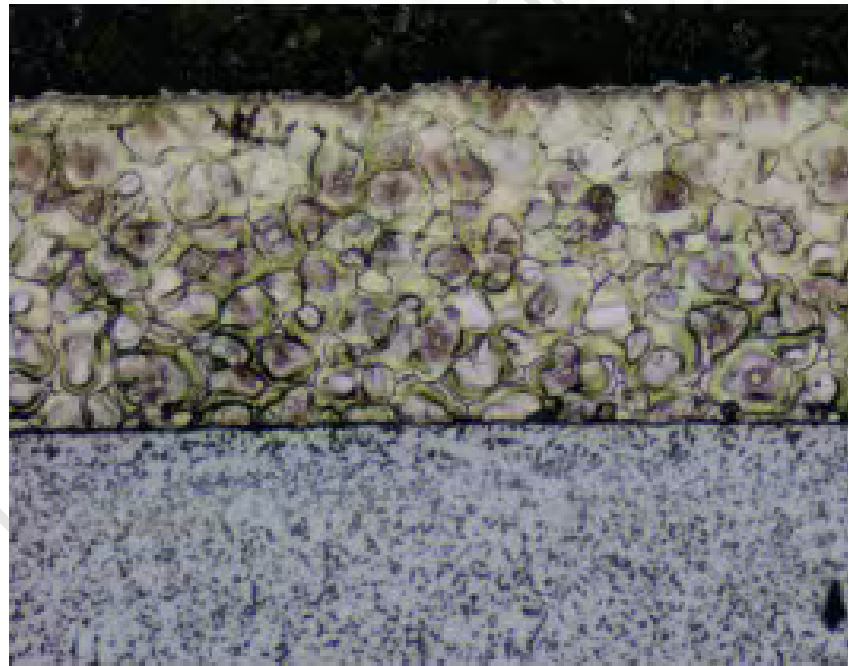
Xinyuewei Foundation Drilling Tools

ROTARY DRILLING CUTTING BITS
CATALOGUE



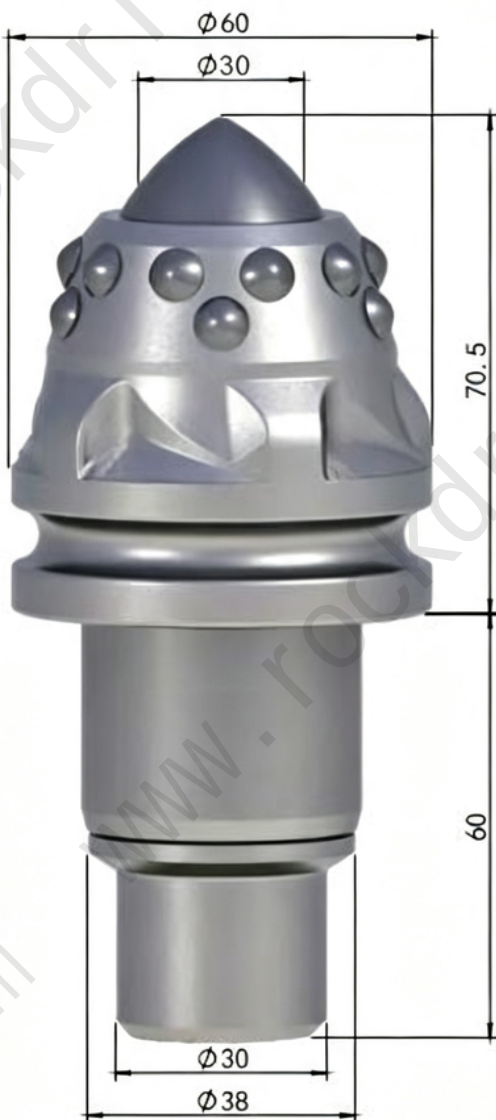
Technical Superiority & Standards

Engineered with extra-coarse WC carbide, FEA stress-optimized geometry, precision heat-treated steel (Grade 3-4 martensite), and high-strength vacuum brazing (shear strength > 300 MPa) to deliver maximum durability under heavy drilling conditions.



Extra-Coarse Grain WC Carbide Tip

Formulated with extra-coarse tungsten carbide (WC) raw materials with optimized grain distribution. The thick cobalt binder layer significantly improves heat dissipation, structural stability, and fatigue crack resistance, delivering superior fracture toughness and high-temperature wear resistance.



60-15K30



55-12K22 (22.5X28)





High-Strength Brazing (Shear Strength > 300 MPa)

Superior brazing seam metallurgy guarantees an ultra-strong bond between the carbide tip and steel body, with average shear strength exceeding 300 MPa to completely eliminate tip detachment.

Advanced heat treatment eliminates undissolved ferrite and banded structures. Meeting the JB9204 metallographic induction-hardening standard, the steel body features a highly refined, uniform Grade 3-4 tempered martensite structure for maximum fatigue resistance.

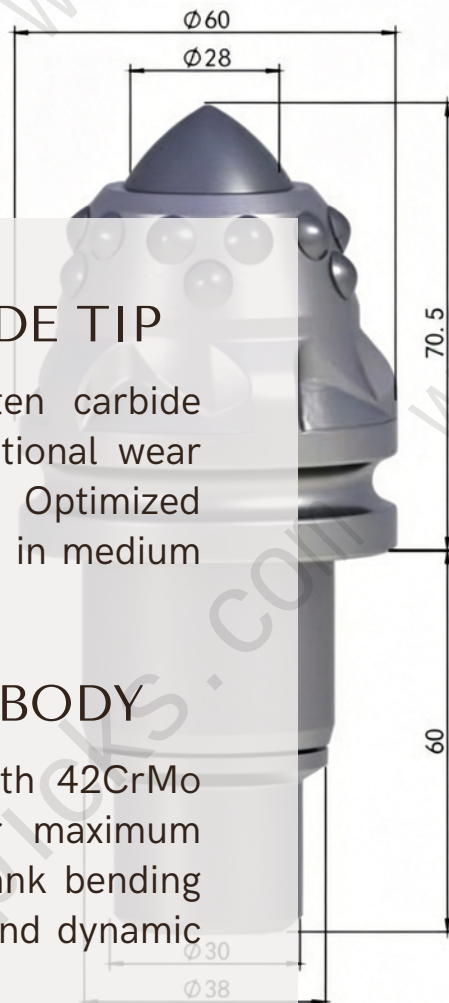


HIGH-DENSITY CARBIDE TIP

Engineered with premium tungsten carbide (WC-Co) inserts to provide exceptional wear resistance and impact toughness. Optimized tip profile ensures fast penetration in medium to hard rock strata.

FORGED ALLOY STEEL BODY

Precision-forged from high-strength 42CrMo alloy steel and heat-treated for maximum structural integrity, preventing shank bending or breakage under heavy torque and dynamic shock.



WEAR-RESISTANT HARDFACING

Features specialized hardfacing overlay on the tooth body. Effectively mitigates body wash and abrasive erosion, extending overall tool life in highly abrasive soil and sandstone formations.



RETAINER RING & SMOOTH ROTATION

Equipped with a high-tension clamping spring for quick installation and reliable sleeve retention. Designed for smooth 360° self-sharpening rotation to maintain uniform cutter wear.



Thank You for Your Trust!

Thank you for reviewing our foundation drilling tools catalogue. We are dedicated to providing high-performance rotary drilling bullet bits, holders, and accessories engineered to conquer the toughest geological conditions worldwide.

Specially optimized for harsh strata across the Middle East—including hard limestone, abrasive sandstone, and gravel—our products feature advanced heat treatment and premium carbide tips to lower your cost-per-meter and minimize rig downtime.

Whether you require standard replacements for Bauer, Soilmec, or Caterpillar rigs, or customized OEM solutions tailored to your project specs, our technical team is ready to deliver fast and reliable support.

Sarah Chen



Sarah Chen

Founder at Rock Drilling Picks Studio | Export Manager for R...



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Fast Response!

- Dedicated technical & sales support for Middle East projects.
- Contact us on WhatsApp for instant quotations, test reports, and sample requests.
- @rockdrillingpicks