BI-CENTER

Increase your WellBore Diameter Without the Risk

Designed to enlarge the wellbore by 15 to 25 percent larger than the pass through wellbore in all types of formations.

Applications

• Vertical, Directional, Horizontal, and Tangent wells.
• For soft to hard formation drilling.
• For all rotary, directional motor, and point the bit RSS applications.

Features / Benefits

• Designed to reduce the risks associated with hole openers or under reamers.
• Matrix or steel body designs for abrasive or maximum ROP applications.
• One piece design shortens and strengthens the bit for better directional control.
• Pilot bit and reamer body are balanced as one cutting structure that minimizes cutter and casing damage while drilling out.
A bi-center bit is not symmetrical and its unique application will cause problems inside casing. When drilling out from casing, the bit rotates on the casing centerline and not on the bit centerline. This off-center rotation will cause damage to the cutters located on the pilot bit. The damage is due to backward rotation of cutters located between the bit centerline and casing centerline. Varel has repositioned those cutters to eliminate the damage. As the bits transition to formation the cutters begin to rotate normally about the bit centerline and cut formation.