

Bit Crown Profiles for Forsun Core Bits

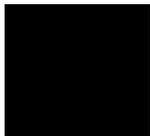
To suit various drilling conditions encountered and meet worldwide customer's requirements, Forsun produces core bits in corresponding crown profiles.

The basic Profiles are as below. Some special profiles may not be available in certain bit sizes due to improper kerf width or matrix hardness of the bit.



W Profile

Standard Profile for most impregnated bits, usually produced in a matrix height over 6mm. It provides good drilling stability and is suitable for various formations.



Flat Profile

It's suitable for various rocks, often used in impregnated casing bits, casing shoes as well as the bits with very hard matrices (e.g. F1, F2).



Cross Profile

It's especially designed for ultra-hard formations, such as granite (hardness 8-9), gneiss, quartzite, limestone, chert etc.



Semi-Round Profile

Impregnated bits with this profile are recommended for use in highly fractured formations with good drilling stability. Surface set bits of this style have a long bit life and the matrix is not easy to be damaged.



Multi-Step Profile

Multi-Step type impregnated bits are suitable for soft to medium hard formations and alternating hard-soft formations. With very good drilling stability, it makes the borehole not liable to deflection and the penetration fast. This profile is also often adopted in thick-kerf surface set core bits, with good drilling stability and fast penetration.