



CONTINENTAL

Drilling Tools & Supplies

IADC Codes make it easier for drillers to describe what kind of rock bit they are looking for to the supplier. Continental Supply follows the IADC bit classification system in which the first three digits classify the bit according to the formation it is designed to drill and the bearing/seal design used.

First Digit:

1, 2, and 3 designate STEEL TOOTH BITS with 1 for soft, 2 for medium and 3 for hard formations.

4, 5, 6, 7 and 8 designate TUNGSTEN CARBIDE INSERT BITS for varying formation hardness with 4 being the softest and 8 the hardest.

Second Digit:

1, 2, 3 and 4 are further breakdown of formation with 1 being the softest and 4 the hardest.

Third Digit:

This digit will classify the bit according to bearing/seal type - [see information on different bearing types](#) - and special gauge wear protection as follows:

1. Standard open bearing roller bit
2. Standard open bearing roller bit, air-cooled
3. Standard open bearing roller bit with gauge protection which is defined as carbide inserts in the heel of the cone
4. Sealed roller bearing bit
5. Sealed roller bearing bit with gauge protection
6. Journal sealed bearing bit
7. Journal sealed bearing bit with gauge protection

Fourth Digit:

The following letter codes are used in the fourth digit position to indicate additional features:

- A. Air Application
- R. Reinforced Welds
- C. Center Jet
- S. Standard Steel Tooth
- D. Deviation Control
- X. Chisel Insert
- E. Extended Jet
- Y. Conical Insert
- G. Extra Gage Protection
- Z. Other Insert Shape
- J. Jet Deflection

Bearing Types:

There are primarily four (4) types of bearing designs used in tricone drilling bits:

1.) STANDARD OPEN BEARING ROLLER BIT: On these bits the cones will spin freely. This type of bit has a front row of ball bearings and a back row of roller bearings.



2.) STANDARD OPEN BEARING ROLLER BIT FOR AIR DRILLING: Cones are similar to #1, but have air injection directly to the cones to cool the bearings. Air flows into the cone through the passage ways inside the pin. (Not for mud applications)

3.) SEALED BEARING ROLLERS BITS These bits have an O-Ring seal with a grease reservoir for bearing cooling. The seals act as a barrier against mud and cuttings to protect the bearings

4.) JOURNAL BEARING ROLLER BITS These bits are strictly oil/grease cooled with nose bearings, O-Ring seal and a race for maximum performance.



Continental Supply, Co.
700 B Santa Anita Dr.
Woodland, CA 95776
800-464-9156
(530) 669-7966 fax

alanbroadus@continentalsupply.net

Continental Supply, Co.
12020 Woodruff Ave
Unit F
Downey, CA 90241
800-794-3737
(562) 803-1454 fax

billmatcaroff@continentalsupply.net



CONTINENTAL

Drilling Tools & Supplies

Drag Bits, Blade Bits, Spade Bits, Reverse Circulation Bits

Designed for faster penetration in softer unconsolidated formations.

We supply a variety of drag bits for your soft, medium and hard formation drilling needs. Drag bits are the perfect solutions for mud, sand, sticky clay, and drilling out concrete and grout. They can be used to drill any type of hole and also a more economical solution for seismic drilling.

Please give us a call toll-free at **our Woodland, CA or Downey, CA Locations** for a quote on your needs. We can supply any size from 7/8" wide to 48" wide. We can provide a custom design to improve your annular velocity in the borehole.

Chevron Bit



Chevron bits are designed for medium to hard formation and are used in areas that contain a lot of rock and also in the oilfield for drilling out concrete casings and plugs.

Step Bit



Step bits are the most common type of drag bit used in the world today. They are primarily designed for soft to medium formations