

## Twist Drill Bits Features & Selection Guide

### Finishes/Coatings/Types



**High Speed Steel (HSS)** - Standard general purpose bits. Polished finish with silver appearance.

#### **BLACK OXIDE™** Drill Bit



**Black Oxide** - High speed steel bits with an added heat treatment that reduces friction between bit and workpiece. Black oxide bits have 50% longer life than standard high speed steel bits. Black appearance.

#### **XTEND™** Bits for Cordless Drills



**XTEND™** - High speed steel bits with a special design for faster drilling. XTEND™ drill bits were developed for use in cordless drills; they enable the user to drill up to 4X more holes per battery charge. XTEND™ drill bits also have an added heat treatment to reduce friction between bit and workpiece.

#### **TITANIUM™** Drill Bit



**Titanium Coated** - High speed steel bits which have been coated with titanium nitride. This special coating gives the bits a very high surface hardness to help penetrate tough materials, makes the bits highly corrosion resistant and significantly reduces friction between bit and workpiece. Titanium coated bits last up to 6X longer than standard high speed steel bits.

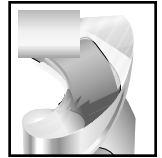
#### **COBALT™** Drill Bit



**Cobalt** - Cobalt bits are a special formulation of high speed steel with cobalt added in to withstand very high drilling temperatures. Cobalt bits are specifically designed for drilling very hard, abrasive materials such as treated stainless steel, titanium and cast iron. Cobalt bits are not designed for general purpose use.

### Point Styles

**118° Point** - Designed primarily for drilling into wood or plastic. Center punch is required for drilling into metal, otherwise bit will "walk" or "skate".



**135° Split Point** - Starts on contact in metal, wood and plastic. Eliminates "walking" or "skating" when drilling into metal. 135° Split Point on all bits above 1/8".



### Selection Guide

Quality Level	Bit Type	Material to Be Drilled	Application/Benefit
<b>Specialty Drilling</b>			
<b>Best</b>	Cobalt 	PH stainless steels (hardness above 35 Rockwell C)	Drilling in high heat applications. Cobalt reduces heat created by drilling in treated stainless steel
<b>Best</b>	Titanium 	Most common stainless steels	General purpose drilling. 6X longer life than standard HSS
<b>General Purpose Drilling</b>			
<b>Best</b>	Titanium 	Carbon steels, alloy steels, wood, composition board, plastic, PVC, drywall	General purpose drilling. 6X longer life than standard HSS
<b>Moderate</b> <i>(Designed for Cordless Drills)</i>	XTEND™ 	Carbon steels, alloy steels, wood, composition board, plastic, PVC, drywall	General purpose drilling. Special design drills faster, giving 4X more holes per charge
<b>Moderate</b>	Black Oxide 	Carbon steels, alloy steels, wood, composition board, plastic, PVC, drywall	General purpose drilling. Triple tempered for 50% longer life than standard high speed steel
<b>Economical</b>	High Speed Steel 	Carbon steels, alloy steels, wood, composition board, plastic, PVC, drywall	General purpose drilling. Precision ground from premium high speed steel