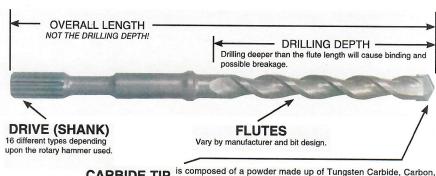
TECHNICAL INFORMATION

CARBIDE MASONRY TOOLS

A.N.S.I. B212.15-1994 AMERICAN NATIONAL STANDARDS INSTITUTE CARBIDE-TIPPED-DRILL **TOLERANCES**

Developed to insure maximum holding power of concrete anchors by matching drill tolerances to anchor dimensions. Using a drill which is worn or out of tolerance can drastically reduce an anchor's performance

NOMINAL DRILL TOLERANCE DIAMETER BAND		NOMINAL DRILL TOLERANCE DIAMETER BAND		
3/16"	.206"198"	11/16"	.723"	713"
1/4"	.268"260"	3/4"	.787"	775"
5/16"	.335"327"	7/8"	.917"	905"
3/8"	.398"390"	1"	1.042"	- 1.030"
7/16"	.468"458"	1 1/8"	1.175"	- 1.160"
1/2"	.530"520"	1 1/4"	1.300"	- 1.285"
9/16"	.592"582"	1 3/8"	1.425"	- 1.410"
5/8"	.660"650"	1 1/2"	1.550"	- 1.535"



CARBIDE TIP

Cobalt and other metals which, under heat and pressure, are formed into a bit tip. Since there are only a few manufacturers of

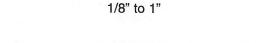
carbide, it is primarily the process and quality control of brazing the tip to the drill body which differentiate bit longevity and quality. The brazing material, such as silver-copper alloy, must allow for the difference in expansion and contraction between the carbide tip and the steel body, as well maintain shock-resistance.

PARTICIPATION OF THE PROPERTY OF THE PARTICIPATION 1/8" to 1"

Fast Spiral Rotary: Generally used in rotary drilling. Speed range 450-700 RPM to 1/2" diameter, 350-500 RPM from 5/8" and up. Rotary bits do not break up the concrete, but actually grind it under operator pressure.



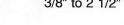
Rotary/Percussion: Generally used in lightweight, mechanical, vibrating hammers. Speed range 1300-3500 RPM, at up to 50,000 blows per minute. The impacting action created by the hammer fractures the concrete into tiny granules.





3/8" to 1 1/2"







up to 5"

Rotary Hammer: Used in electro-pneumatic rotary hammers. Speed range 400-1000 RPM at up to 4500 blows per minute. SDS+ is currently the most popular shank type for holes up to 5/8". Spline and SDS-max for holes 3/4" and larger.

Rebar Cutter: Used to cut holes through embedded steel reinforcing bar. It is used to prevent damage to the hammer bit, which occurs if the hammer bit is used after rebar is encountered. Must only be used on the rotary-only setting on the drill motor.

Core Bit: The most effective way of drilling a large hole since you are only cutting the circumference. Both rotary and hammer types are available. Rotary core bits require a great deal of pressure and are suitable for very brittle or thin materials. Hammer core bits offer speed and economy only if rebar is not encountered.



California Proposition 65

WARNING: This product can expose you to chemicals including cobalt which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov



Proposition 65 Warning

You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm.

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