

BLUE DEMON

DIRECTIONAL DRILLING CATALOG



BLUE DEMON COMPANY, INC.



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Directional Drilling – Pilot Bit Selection Chart

Example Part Number – Flat Pilot Bits

Position	1st	2nd	3rd	4th	5th	6&7	8&9
Part No.	D	V	6	B	7	44	ST

Part Description:

Directional Pilot bit, Vermeer, 3/4" thick, bent, 7 hole, 4 1/2" wide, step type carbide bit

Style of Bit (Position 1)	Rig Manufacturer (Position 2)	Thickness of Bit (Position 3)	Straight or Bent (Position 4)	Hole Pattern (# of Holes) (Position 5)	Width of Cut (Position 6&7)
D Directional	V Vermeer™	5 5/8"	S Straight B Bent	3	30 3"
	D Ditch Witch™	6 6/8" (3/4")		4	34 3 1/2"
	C Case™	8 8/8" (1")		5	40 4"
	O Other	125 (1 1/4")		6	44 4 1/2" (4 4/8")
				7	50 5"
				60 6"	

Made in all bolt configurations and sizes for all manufacturers.

Type of Bit (Position 8&9)

SS Steel Bit

SH Square Hardfaced Bit

VHF Vermeer™ Hardfaced Bit

TH Triangle Hardfaced Bit

XTHF Extreme Taper Hardfaced Bit

CF Carbide Finger Bit

ST Step Type Carbide Bit

CT Chevron Type Carbide Bit

TT Tracker Type Carbide Bit

SC Serrated Carbide Bit

CB Conical Carbide Bit

ATHD All Terrain Carbide Bit

XTHD Extreme Taper HD

XTC Extreme Taper Conical

XT01 Extreme Taper with Segments

V1 Small Diameter Carbide Coverage

V2 Regular Carbide Coverage

V3 Complete Carbide Coverage

C3 Cobble Bit

V2 Mini Small V2 with Regular Carbide Coverage



Roller Cone Bits

Available in a sealed bearing or journal bearing bit. Sealed bearing bit requires periodic additions of grease while journal bearing automatically compensates for this.

Available with jets and no center hole. We recommend a medium formation carbide bit.

To order, please contact the factory.



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Directional Drilling – Pilot Bits

SS Steel Bit



Economy bit for compacted soils and clays.

SH Square Hardfaced Bit



Standard carbide hardface enhances life in compacted soils, clays, and cobble.

VHF Vermeer™ Hardfaced Bit



Suitable for cobble, clay, and compacted soils.

TH Triangle Hardfaced Bit



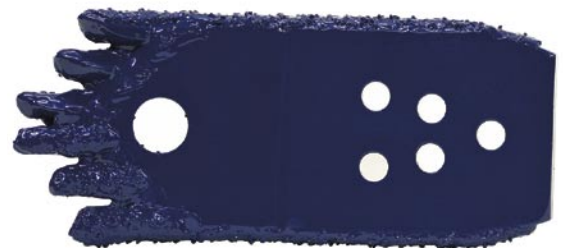
Good in cobble, chunk rock, as well as clay. Steep taper improves penetration and steering.

XTHF Extreme Taper Hardfaced Bit



For compacted soils, light rock, and cobble. Allows for better penetration and steering in these environments.

CF Carbide Impregnated Finger Bit



Carbide hardfaced fingers heat treated for long life and faster penetration in clay, sand, and soil. Fingers peel clay where conventional cutters ball up.



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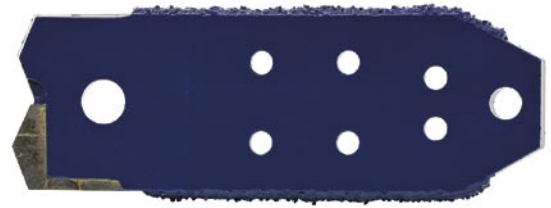
Directional Drilling – Pilot Bits

ST Step Type Bit



Excellent bit for toughness and abrasion resistance in soft formations such as dirt, gravel, and shale.

CT Chevron Type Carbide Bit



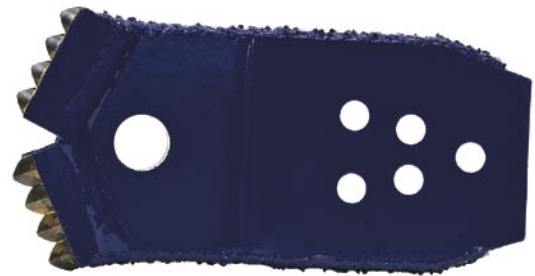
Design for tougher drilling conditions in medium hard formations such as caliche and shale.

TT Tracker Type Carbide Bit



Pilot bit where carbides track each other on opposite sides for maximum penetration and faster cuttings removal in soft and medium formations.

SC Serrated Carbide Bit



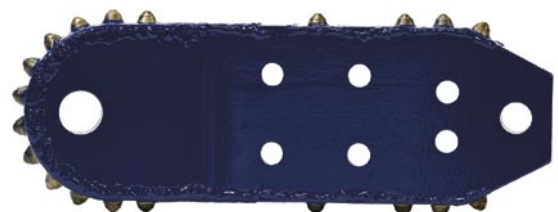
Bit is well suited to clay, sand, soils, and soft rock formations.

CB Conical Carbide Bit



For hard compacted soils and sedimentary rock as well as caliche and sandstone. Uses capped carbide cutters to improve rock fracturing and production.

ATHD All Terrain Carbide Bit



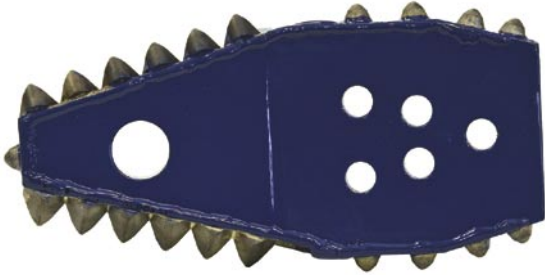
Long lasting, all purpose bit designed for use in a variety of soils, including sandstone, chunk rock, and hard soils. Radius head minimizes drag. Side carbides enhance cutting and extend life.



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Directional Drilling – Pilot Bits

XTHD Extreme Taper HD



This bit is good in hard soils, soft rock, and some medium rock formations. It is designed for better penetration.

XTC Extreme Taper Conical



Designed for drill head to stay on grade and allow for improved steering.

XT01 Extreme Taper with Segments



V shaped taper allows for better penetration and steering. Conical carbides enhance durability in chunk rock and cobble. Special DHF hardfacing extends life over normal chunky carbide hardfacing.

V1 Small Diameter Carbide Coverage



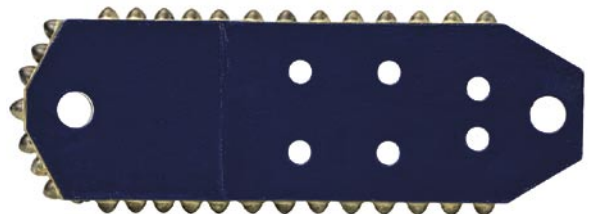
Good product for soft formations like sand, soil or clay. Ideal for conditions that require grade maintenance.

V2 Regular Carbide Coverage



Large ballistic carbides for more difficult cutting conditions than V1.

V3 Complete Carbide Coverage



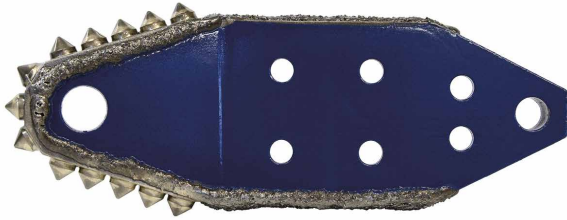
Complete carbide coverage for soft and medium rock conditions.



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Directional Drilling – Pilot Bits

T01



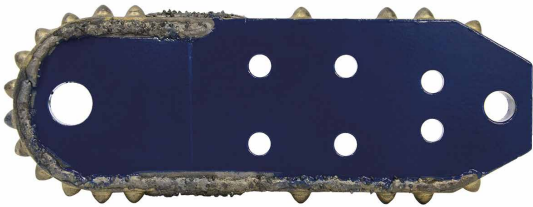
Steep taper bit that utilizes conical carbides for longer wear. Steep taper allows for better penetration but is not recommended for harder formations.

SC01



Similar to our Serrated carbide bit (SC) but uses conical carbides for penetration and wear.

ATHF-B



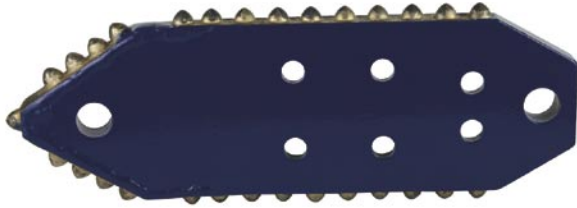
Same as our ATHD except uses slightly larger ballistic carbides and is completely hardfaced along face of bit body.



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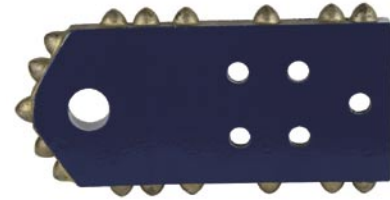
Directional Drilling – Pilot Bits

C3



Designed for cobble with steep taper nose for better penetration and steering and complete carbide coverage for longer life.

V2 Mini



Available in 3 & 3 1/2" diameter with large ballistic carbides for smaller, lower HP machines

Side Wear Protection



Side wear control can be customized.

Standard Carbide Hardface "HF" is used on our hardfaced bits and on many of our bits for side wear.

Special Hardface - "DHF" is a specially formulated smooth hardface that is more durable than our standard hardface.

"HD" bits utilize flat carbide along the side walls of the pilot bit instead of hardfacing to reduce wear.

"CHD" bits utilize conical carbides to reduce wear and enhance cutting action.

Directional Drilling – Reamer Bits

.550 Bits / Block



1



2



3

Part Number

1. R - 550MS
2. BDC - 550CS1
3. R - 550BLK

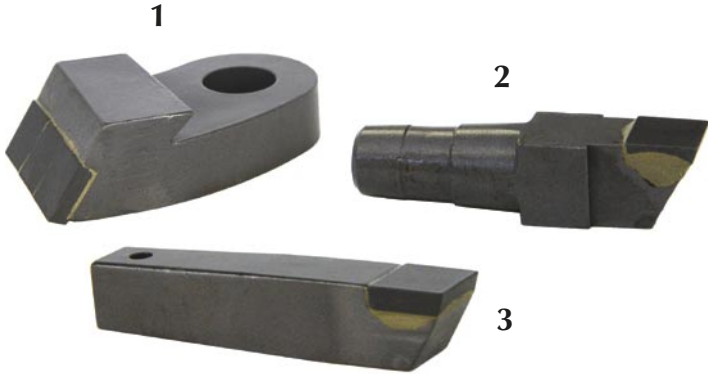
.550 Diameter cap and insert carbide tools along with corresponding block are available.



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Directional Drilling – Reamer Bits

Flat Cutter Bits



Part Number	Carbide
1. BD1	(3) 5/8" Square
2. BD2	(1) 1/2" Square
3. BD3	(1) 5/8" Square

Flat carbide cutter with 1/2" and 5/8" carbides can be used in a variety of cutting conditions.

Undercutter Bits



Part No.	Length	Width	Height	Part No.	Length	Width	Height
1. DD300	2.660	.780	2.219	5. DD1250-50	1.000	.500	1.250
2. DD200	2.360	.740	2.219	6. DD1065-50	.735	.500	1.065
3. DD1500-47	1.435	.720	1.500	7. DD1750-46	1.500	.875	1.750
4. DD1654	1.306	.500	1.800	8. DD1750-47	1.500	.750	1.750

A wide variety of carbide undercutter tools including parts not shown can be welded directly to your backreamer

POXX Bits



Part Number	Carbide OD
1. POXX-01	.638"
2. POXX-24	.638"
3. POXX-23	.945"
4. POXX-56	1.142"

Small cap carbide bits are cut at 45° angle while large cap tool is at 50°. Allows you to weld directly to your backreamer.



BLUE DEMON COMPANY, INC.

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