

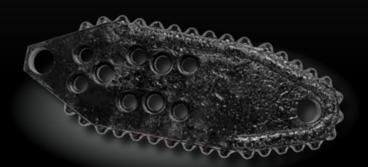
ACE TOOLING BITS APPLICATION GUIDE

ACE™ PREMIUM BIT

The Ace Premium steep taper bit features an aggressive tapered bit front to help penetration rates and offers superior durability, longevity and wearability for high-risk, aggressive ground conditions such as heavy cemented cobble, hard-packed soils and softer shale.

ACE PRO BIT

Our most popular Ace steep taper bit features a semi-aggressive tapered front design for penetration in hard ground conditions — offering even greater longevity and wearability to tackle loam to moderately aggressive cobble, sand and hardpan.



ACE PRO EXTREME BIT

The Vermeer Ace Pro Extreme steep taper bit continues the Ace bit legacy of performance in tough ground conditions. This bit features carbide teeth along both edges for extended wear life. Dome-style teeth absorb the shock of hard ground conditions such as hard-packed soils, cobble, fractured rock and soft rock.



ACE STANDARD BIT

The Ace Standard steep taper bit features a rounded bit face to assist steering performance and offers durability, longevity and wearability for softer ground conditions that are more abrasive, like medium-packed soils and light gravel.

ACE" TOOLING BITS APPLICATION GUIDE



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ARNOR BITS APPLICATIONS GUIDE

ARMOR DIRT BIT

The Vermeer Armor Dirt bit assembly is a modular soft-rock drilling platform that includes a housing and a family of bits. It offers flexibility with many different plate options that match ground conditions such as cobble, soft formations and limestone.

ARMOR GAUNTLET BIT

The Vermeer Armor Gauntlet bit offers exceptional steering capabilities. A replaceable three-tooth design delivers maximum drilling performance in soft to medium rock and caliche up to 10,000 psi (68,947.6 kPA).

ARMOR LANCE BIT

A scoop design gives the Vermeer Armor Lance bit exceptional steering capabilities for enhanced operator control. Carbide buttons and robotically applied hardfacing helps improve bit wear in hard-packed soil, gravel and cobble.

ARMOR LANCE PRO BIT

Featuring domed, plug-style teeth, the Lance Pro bit offers continuous carbide coverage across the front for extended wear life. With a tendency to cut on center, this bit helps bore hard-packed soils, highly abrasive cobble and cemented cobble.

ARMOR SINGLE ROLLER CONE BIT

Abrasion-resistant (A/R) tips are used when processing highly abrasive material. Their flat-face design, infused with tungsten carbide crystals in the casting block, is best suited for applications that contain sand, dirt and other highly abrasive materials. A/R tips can be flipped for extended life.



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		Armor Dirt bit drill bits	Armor Gauntlet drill bits	Armor Lance drill bits	Armor Lance Pro drill bits	Armor Single Roller Cone drill bits	
	2232						
	Hard soil	$\overline{}$		$\overline{}$	$\overline{}$	\forall	
	Cobble				$\overline{\forall}$	$\overline{\forall}$	
rerial	Medium soil		$\overline{\forall}$	$\overline{}$	$\overline{}$	\square	
APPLICATION/MATERIAL	Loam	$\overline{\forall}$		$\overline{\forall}$	$\overline{\forall}$	$\overline{\forall}$	
APPL	Soft rock	$\overline{\forall}$			$\overline{\forall}$	\blacksquare	
	Sandy soil	$\overline{\forall}$		$\overline{\nabla}$	$\overline{\forall}$	$\overline{\forall}$	
	Soft soil		$\overline{\forall}$	$\overline{\forall}$	\blacksquare		
	Available cutting sizes		4.25 in	4.25 in	4.25 in	4.25 in	
s		3.75 in	4.5 in	5 in	5 in	5 in	
BOLT PATTERNS			5.5 in	6.5 in	6.25 in	5.5 in	
T PAT			6.5 in	7.25 in	7.25 in	6.5 in	
	Available bolt patterns	Medium armor	Large armor Large armor direct	Large armor	Large armor Large armor direct	Large armor Large armor direct	
AVAILABLE SIZES			Medium armor Medium armor direct	Medium armor	Medium armor Medium armor direct	Medium armor Medium armor direct	
AVA		Small armor	Small armor Small armor direct			Small armor Small armor direct	





GUUD Helps achieve moderate performance when drilling.



elevated performance when drilling. BEST Helps achieve exceptional performance when drilling. Vermeer Corporation reserves the right to make changes in engineering, design and specifications; add improvements; or discontinue manufacturing at any time without notice or obligation. Equipment shown is for illustrative purposes only and may display optional accessories or components specific to their global region. Please contact your local Vermeer dealer for more information on machine specifications. Vermeer and the Vermeer logo are trademarks of Vermeer Manufacturing Company in the U.S. and/or other countries.

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GLADIATOR BITS APPLICATION GUIDE

GLADIATOR™ CLUB BIT

The Vermeer Gladiator Club bit brings you the power of our oversized carbide buttons, exclusively designed for wear resistance. This versatile series is ideal for cobble and highly abrasive ground conditions.

GLADIATOR MALLET BIT

Steer into the clear with the Gladiator Mallet bit. It features the Gladiatorexclusive bit design with oversized carbide buttons for wear resistance and a flat face to help maximize steering control. It's ideal for cobble and highly abrasive ground conditions.



GLADIATOR SABER BIT

The Gladiator Saber bit features an aggressive tapered design for penetrating hard-packed soil conditions. Includes the Gladiator-standard carbide buttons to help extend wear life while making it ready for highly abrasive ground conditions.



GLADIATOR SPEAR BIT

The Gladiator Spear bit's rugged, pointed design and exclusive oversized carbide buttons help reduce premature wear. It lets you battle compatible ground conditions from loam to cobble and other highly abrasive soil.

GLADIATOR[™] **BITS APPLICATION GUIDE**



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CHEVRON BIT

The Chevron Drill bit is a tough Vermeer original with an Imposing split-faced design. That, paired with its high-quality tungsten carbide inserts, offers cutting relief to effectively penetrate hard-packed ground. This bit is ideal for most conditions, especially packed clay, hardpan and caliche.

SHARK BIT

The Vermeer Shark bit is one of our original designs. It's shark teeth cutting tools supply an aggressive cutting action to work through hard-packed ground conditions.

QUICKSHOT ROTARY BIT

The Vermeer Quickshot rotary bit is designed with optimally positioned conical carbide cutters for maximum performance. Robotically applied carbide hardfacing provides valuable wear resistance in hardpan, caliche and sandstone.

STANDARD HARDFACED BIT

Performance is standard with this bit. It is an economical option for softer soil conditions such as loam, black dirt and sandy loam.



VERMEER CARBIDE POINT BIT

The Vermeer Carbide Point (VCP) bit is shaped for maximum penetration in ground conditions from soft soils to hard-packed clay. First-use carbide buttons help protect the bit face from premature wear.



VERMEER CARBIDE TIP BIT

The Vermeer Carbide Tip (VCT) bit uses first-use carbide buttons to help protect the bit face from premature wear. This versatile bit is ideal for ground conditions ranging from soft soils to hard-packed clay.

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		Chevron bit	Quickshot rotary bit	Shark bit	Standard hardfaced bit	Vermeer Carbide Point bit	Vermeer Carbide tip bit
		40 0					
	18	VER		S			
	Hard soil	$\overline{}$	$\overline{}$	$\overline{}$			$\overline{}$
	Cobble						
ERIAL	Medium soil	$\overline{}$	$\overline{}$		$\overline{}$	$\overline{}$	$\overline{}$
APPLICATION/MATERIAL	Loam				$\overline{\forall}$		$\overline{\forall}$
APPLI	Soft rock	$\overline{\forall}$	\bigtriangledown	$\overline{\forall}$	$\overline{\forall}$	$\overline{\forall}$	$\overline{\forall}$
	Sandy soil						$\overline{\forall}$
	Soft soil	$\overline{\checkmark}$			$\overline{\forall}$		$\overline{}$
	Available cutting sizes			3 in	2.5 in	2.5 in	2.5 in
ß				3.5 in	3 in	3.5 in	3.5 in
CUTTING SIZES		5 in	4 in	4 in	3.5 in	4 in	4 in
				4.5 in	4.5 in	4.5 in	4.5 in
				5 in	5 in	5 in	5 in
				-	6 in	6 in	6 in 8 in
				-	-	-	0

AVAILABLE BOLT PATTERNS







BETTER Helps achieve elevated performance when drilling.



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exceptional performance when drilling.

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