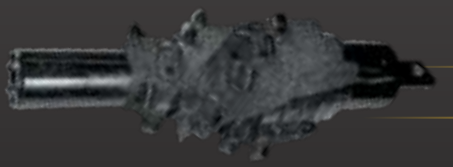
Vermeer

REAMERS APPLICATION GUIDE

FLUTED REAMER

Our fluted reamers get the job done with a robust through-shaft design and heat-treated, cast-alloy steel for durability. To help reduce the amount of resistance-causing spoil buildup, a built-in swivel minimizes the distance to the product pipe. Vermeer fluted reamers include robotically applied carbide mesh grit hardfacing for longevity. This reamer features a cast-alloy steel body for added strength and durability, with sizes ranging from 4 in to 48 in (10.2 cm to 121.9 cm). And they're available with rotary or shark teeth to create an aggressive cutting action. Ideal for rugged ground conditions ranging from **hard pan and soft rock to cobble.**



T-REX REAMER

Take a bite out of tough conditions. Ruggedly constructed with work-hardened, high-alloy steel, this reamer incorporates a unique, steep, rear-tapered design for ease of pushback when needed. Optional built-in swivel or through-shaft designs are available. High-wear areas are covered with a resilient carbide mesh grit hardfacing. Equipped with oversized shark teeth tooling for aggressive, yet smooth, cutting action, the T-Rex reamer is ready for **cobble, chunk rock and soft rock.** Sizes range from 8 in to 32 in (20.3 cm to 81.3 cm).

MIX MASTER™ HD REAMER

Vermeer Mix Master™ HD (MXHD) reamers are the ideal tooling for **sandy loam, sticky clay and other reactive ground conditions**. These mixing reamers can tackle both utility and pipeline applications with a range of cut diameters from 6 in to 36 in (15.2 cm to 91.4 cm).

DIAMOND WING CUTTER REAMER

Efficient and effective, the diamond wing cutter features a dual-tapered, open-bodied design to maintain mixing action, which helps allow reduced pullback and rotational forces required from the drill rig. Sizes range from 10 in to 24 in (25.4 cm to 61 cm).

SUPREAMER REAMER

Take on big jobs with the Supreamer reamer's exceptional mixing action — made possible by its open-bodied design and ruggedly large paddles. Includes front- and rear-facing oversized carbide shark or rotary teeth tooling for aggressive cutting action and ease of pushback when needed. Sizes range from 8 in to 60 in (20.3 cm to 152.4 cm).

BARREL REAMER

Vermeer barrel reamers give you steady bore hole stabilization in **sandy soil loam, soft soil and medium soil.** They also include front and rear fluid nozzles to help increase spoil displacement. And they're designed with C20 pockets and replaceable C21HD rotary teeth to dish out durable cutting performance. Plus, you'll get heavy performance without hefty weight. In fact, they're designed with a unique internal baffle system that limits the amount of drilling fluid mass — decreasing overall tool weight to help protect structural integrity. Sizes range from 8 in to 50 in (20.3 cm to 127 cm).

HELICAL PLUS REAMER

This Vermeer-original design helps you tame **sandy loam and clay.** The secret to its success is a helical bar design with shark teeth tooling and rear-facing paddles. It all adds up to more efficient cutting and mixing action. Sizes range from 6 in to 36 in (15.2 cm to 91.4 cm).

FLY CUTTER REAMER

This robust flat-face reamer is designed for higher-powered HDD rigs. You can count on the Vermeer fly cutter in a variety of ground conditions, including **sandy soil loam and soft, medium, and hard soil,** with its changeable carbide fluid nozzles that help optimize flow (including front and rear fluid nozzles to help increase spoil displacement). Also designed with C20 pockets and replaceable C21HD rotary teeth to supply you with durable cutting performance. Sizes range from 10 in to 60 in (25.4 cm to 152.4 cm).

MPHD™ REAMER

The Vermeer MPHD™ reamer brings the best of both worlds to the jobsite with elongated arm bars on the front for thorough mixing and a barrel shape near the rear connection for packing. The fluid bars are integrated with cutters and directionally orientated to help prevent hole washout. The cutter bars line the entirety of the reamer, minimizing weak points and making this reamer push-pull capable. This reamer is ideal for sandy loam, clay and other semi non-self-supporting conditions.

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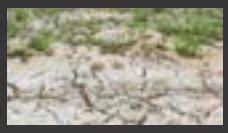
SOIL CONDITION	VERMEER REAMERS								
	Fluted reamer	T-Rex reamer	Mix Master™ HD reamer	Diamond wing cutter reamer	Supreamer reamer	Barrel reamer	Helical Plus reamer	Fly cutter reamer	MPHD™ reamer
Sandy									
Clay/ loam									
Dry/ compacted									
Cobble/broken formation									
Soft rock									

SOIL CONDITION:

Sandy – Sand, sandy loam, any soil where sand is a major component

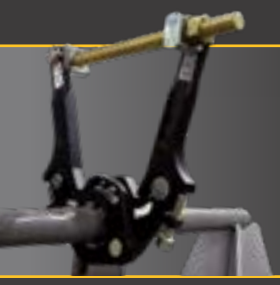
Clay/loam – Clay, loam, silt, soft to medium soils that have some moisture



Dry/compacted – Hard pan, any dry clay, any compacted soil

Cobble/broken formation – Cobble, gravel, glacial till, chunk rock, any non-consistent type of rock

Soft rock – Sand stone, shale, soft limestone, caliche, some coral between 1,000 psi-4,500 psi (6.9 MPa-31 MPa)



VERMEER PBD11500 BREAKOUT TONGS

Whether making up or breaking out exit pit-side tooling, the Vermeer PBD11500 breakout tongs should be something you carry with you every day to handle torqued direct connections up to 3.75 in (9.5 cm) OD. Unlike some competitive systems that can require a second set of hands, the PBD11500 features a tensioning design for ease of installation.

For more information on the product and how to purchase, contact your local Vermeer dealer.

BORESTORE®
HDD TOOLING AND ACCESSORIES WAREHOUSE

NOT RECOMMENDED
Not recommended for the listed soil condition.

GOOD
Helps to achieve conducive results within listed soil condition.

BETTER
Helps to achieve efficient productivity within listed soil condition.

BEST
Helps to achieve maximum viability within listed soil condition.