

## BOLT-ON BLADES

### STEEP TAPER ULTRA BIT

For hard, compact soil and gravel



- Center point tooth for easier penetration
- Carbide cutters set in an aggressive angle to get through cobbles
- For ground that is hard to do directional "pushes"
- Chunky carbide hardfacing the entire length of blade for maximum longevity

NOW AVAILABLE WITH THE CHOICE OF DOME OR CONICAL CUTTERS

Steep Taper Ultra Bit					
	4"		5"		6"
Vermeer®	Conical	Dome	Conical	Dome	Conical
6-bolt, 1/2"	1600-13-40-BSU3	1600-13-40-BSUD	1600-13-50-BSU3	1600-13-50-BSUD	
6-bolt, 5/8"			1610-23-50-BSU3	1610-23-50-BSUD	1610-23-60-BSU3
Ditch Witch®					
5-bolt, 12mm	1600-14-40-BSU3	1600-14-40-BSUD			
6-bolt, 16mm	1600-15-40-BSU3	1600-15-40-BSUD	1600-15-50-BSU3	1600-15-50-BSUD	
6-bolt, 20mm					1610-25-60-BSU3

### ULTRA BIT

For hard, compact soil and gravel



- Conical carbide cutter blocks make this an aggressive bit
- Tapered, low-profile, design minimizes torque-stealing drag
- Chunky carbide hardfacing the entire length of blade for maximum longevity

Ultra Bit							
	3"	3.5"	4"	5"	6"	7.5"	9"
Vermeer®							
5-bolt, 1/2"	1600-06-30-BBU3	1600-06-35-BBU3					
6-bolt, 1/2"		1600-13-35-BBU3	1600-13-40-BBU3	1600-13-50-BBU3			
6-bolt, 5/8"					1610-23-60-BBU3		
6-bolt, 3/4"						1612-23-75-BBU3	1612-33-90-BBU3
Ditch Witch®							
5-bolt, 12mm		1600-14-35-BBU3	1600-14-40-BBU3	1600-14-50-BBU3			
6-bolt, 16mm			1600-15-40-BBU3	1600-15-50-BBU3			
6-bolt, 20mm					1610-25-60-BBU3		

### ROCK SAW

For hard, compact soil and gravel



NOW AVAILABLE WITH THE CHOICE OF DOME OR CONICAL CUTTERS

- Aggressive carbide cutters around front of blade facilitate forward and side cutting
- Low profile and contoured back design minimizes torque-stealing drag
- Chunky carbide hardfacing along the entire length of blade reduces wear

Rock Saw				
	4"		5"	
Vermeer®	Conical	Dome	Conical	Dome
6-bolt, 1/2"	1600-13-40-BBX3	1600-13-40-BBXD	1600-13-50-BBX3	1600-13-50-BBXD
6-bolt, 5/8"			1610-23-50-BBX3	1610-23-50-BBXD
Ditch Witch®				
5-bolt, 12mm	1600-14-40-BBX3	1600-14-40-BBXD		
6-bolt, 16mm	1600-15-40-BBX3	1600-15-40-BBXD	1600-15-50-BBX3	1600-15-50-BBXD

### EXCALIBUR

For clay and abrasive soil conditions



- Bullnose design minimizes drag while rotating
- Carbide button bits grind through tough ground conditions
- Strategically placed carbides along side give this blade a long, productive life

Excalibur				
	2.5"	3.5"	4"	5"
Vermeer®				
6-bolt, 1/2"		1600-13-35-BBX	1600-13-40-BBX	1600-13-50-BBX
6-bolt, 5/8"				1612-23-50-BBX
Ditch Witch®				
3-bolt, 10mm	1600-09-25-BBX			
5-bolt, 12mm		1600-14-35-BBX	1600-14-40-BBX	1600-15-50-BBX
6-bolt, 16mm			1600-15-40-BBX	

### BEAR CLAW

For hard, rocky soil conditions



- Hardfacing along all wear edges makes this one long-lasting blade
- Large conical carbide cutters to eat through shale, sandstone and other tough conditions

Bear Claw			
	3.5"	4"	5"
Vermeer®			
6-bolt, 1/2"	1600-13-35-BBBC	1600-13-40-BBBC	1600-13-50-BBBC
Ditch Witch®			
5-bolt, 12mm		1600-14-40-BBBC	
6-bolt, 16mm		1600-15-40-BBBC	1600-15-50-BBBC

### CHUNKY

For sand and sandy loams



- Heat-treated blade that is both economical and durable
- Low-profile, tapered design to minimize torque-stealing drag
- Cutting edges impregnated with carbide chunks resists wear

Chunky					
	2.5"	3.5"	4"	5"	6"
Vermeer®					
6-bolt, 1/2"		1600-13-35-BBVC	1600-13-40-BBVC	1610-13-50-BBVC	
6-bolt, 5/8"				1610-23-50-BBVC	1610-23-60-BBVC
Ditch Witch®					
3-bolt, 10mm	1600-09-25-BBVC				
5-bolt, 12mm		1600-14-35-BBVC	1600-14-40-BBVC		
6-bolt, 16mm			1600-15-40-BBVC	1610-15-50-BBVC	1610-15-60-BBVC

# HARD SOIL BITS

## EAGLE CLAW

For hard, rocky soil conditions



- Unique balanced cutting design improves cutting efficiency
- Aggressive tri-tooth carbide cutting action gets through the hardest conditions
- Smooth running with minimal vibration to drill stem and rig
- Precisely placed carbide buttons to minimize bit body wear
- Quick and easy change out of carbide cutter teeth
- Easily threads on to a side-load or high-flow housing
- Conical steering face for quicker reaction to directional "pushes"
- Different tooth styles to accommodate a wide variety of job conditions

Eagle Claw Hard Soil Bits					
Cut Size	Thread	Part#	Replacement Cutters		
			Aggressive Conical	Dome	Large Conical
3.5"	2" IF Pin	EC-35A1-21M	EC35-C-01	EC35-C-02	
4.25"	2" IF Pin	EC-42A1-21M	EC42-C-01	EC42-C-02	EC42-C-03
4.25"	2 1/8" Reg Pin	EC-42A1-23M	EC42-C-01	EC42-C-02	EC42-C-03
5"	2 1/8" Reg Pin	EC-50A1-23M	EC50-C-01	EC50-C-02	EC50-C-03
5.5"	2 1/8" Reg Pin	EC-55A1-26M	EC55-C-01	EC55-C-02	EC55-C-03
6.5"	2 1/8" Reg Pin	EC-65A1-26M	EC65-C-01	EC65-C-02	EC65-C-03
6.5"	3 1/2" Reg Pin	EC-65A1-28M	EC65-C-01	EC65-C-02	EC65-C-03

## EAGLE EYE

Fits Eagle Claw bit

Eagle Eye	
Eagle Claw Size	Part#
3.5"	EC35-FB42-305
4.25"	EC42-FB50-305
5"	EC50-FB60-310

- The Eagle Eye changes your Eagle Claw into a pullback device
- With the Eagle Eye you'll be ready for direct pull back in a matter of minutes
- Built with button carbides for long wear



## IRON FIST

For cobble conditions



- Contoured design
- Wrench flats for easy removal
- Ideal for drilling in cobble conditions
- Balanced cutters for downhole stability
- Built-in check valve to minimize chance of clogging
- Compact cutters – less likely to hang up on cobbles
- 1/4" recessed water holes to prevent clogging
- Main carbide cutters positioned to allow for "rocking" the bit through rocks

Iron Fist Hard Soil Bits								
Cut Size	Thread	Iron Fist with Conical Cutters	Iron Fist with Dome Cutters	Replacement Cutters				Side Cutters
				Conical-Left	Conical-Right	Dome-Left	Dome-Right	
4"	2" IF Pin	IF-40AC-21M	IF-40DC-21M	IF-40-C-01-L	IF-40-C-01-R	IF-40-C-02-L	IF-40-C-02-R	
5"	2 1/8" Reg Pin	IF-50AC-23M	IF-50DC-23M	IF-50-C-01-L	IF-50-C-01-R	IF-50-C-02-L	IF-50-C-02-R	IF50-C-01-S
6"	2 1/8" Reg Pin	IF-60AC-26M	IF-60DC-26M	IF-60-C-01-L	IF-60-C-01-R	IF-60-C-02-L	IF-60-C-02-R	CC-01X4
6"	3 1/2" Reg Pin	IF-60AC-28M	IF-60DC-28M	IF-60-C-01-L	IF-60-C-01-R	IF-60-C-02-L	IF-60-C-02-R	CC-01X4

## IRON EYE

Fits Iron Fist bit

Iron Eye	
Iron Fist Size	Part#
4"	IF40-FB-304
5"	IF50-FB-304

- Great for cobble conditions.
- The Iron Eye turns your Iron Fist into a great pullback device.
- The Iron Eye features carbide hard facing for longevity
- Add our ValuDUB Swivel for a fast, smooth pullback

