



RAILHEAD
UNDERGROUND PRODUCTS, LLC



Product Catalog
Version 01012016

888-313-7455

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5,931,240 5,934,391 6,209,660

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LIMITED WARRANTY

Subject to the terms and conditions hereof, **Railhead Underground Products, LLC. (Railhead)** warrants all products furnished by **Railhead** to be free of defects in material and workmanship at the time of shipment for a period of 30 days from the date of sale to a commercial user.

Railhead will not be responsible for any damage resulting to or caused by reason of installation, improper storage, unauthorized service or alteration of its products, neglect or abuse, or use of the product in a manner inconsistent with its design. The commercial user is responsible for all maintenance services consisting of cleaning and lubrication of equipment, replacing expendable parts, and performing maintenance checks. Any modifications or alterations of **Railhead** products from their original form such as the application of hard surfacing, welding and/or machining, will make any warranty consideration null and void. Such modifications or alterations could be in violation of **Railhead's** U.S. Patents. All ground engaging items are not eligible for warranty consideration unless failure is due to manufacturers' defects. This includes, but not limited to, sonde housing assemblies, lead rods, hex collars, bits and reamers.

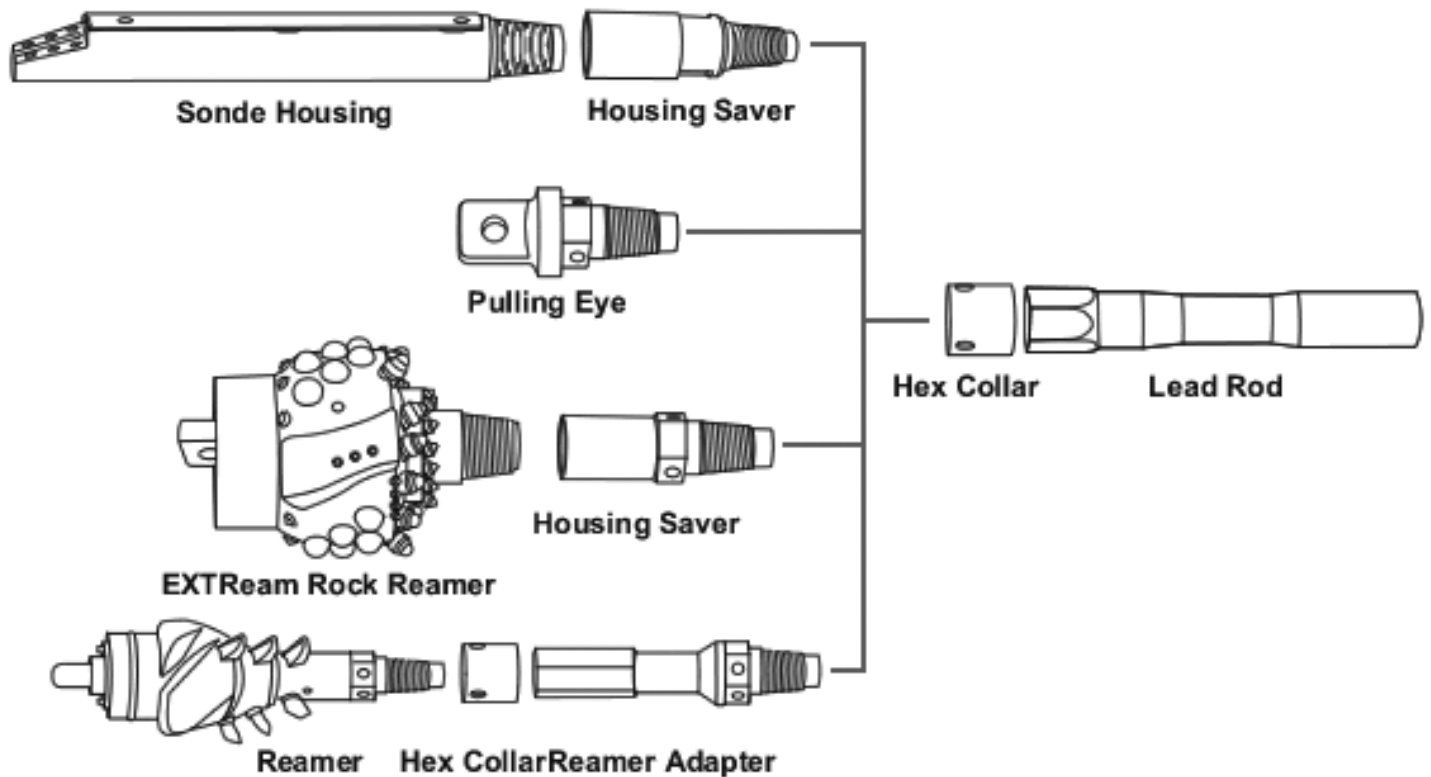
Claims of defects in material and workmanship shall be made in writing to **Railhead** within 10 days of discovery of defect. **Railhead** may either send a service representative or have the product returned to the factory at Buyer's expense for inspection. Upon notification of defect, **Railhead** will issue a "Return Material Authorization (RMA)" number to the Buyer. The RMA number must be clearly marked on the outside of the box on any product returned to our plant. If the product is determined by **Railhead** to be defective in material or workmanship, the product will be replaced or repaired at the option of **Railhead** free of charges except authorized transportation.

The remedies of Buyer set forth herein are exclusive and are in lieu of all other remedies. The liability of **Railhead** whether in contract, tort, under warranty, or otherwise, shall not extend beyond its option to repair or replace, at its option, any product or part found by **Railhead** to be defective in material or workmanship. **Railhead** shall not be liable for cost of installation and/or removal.

Railhead makes no other representations or warranties, expressed or implied, and specifically excludes the implied warranties of merchantability and fitness for a particular use. **Railhead** will not be liable for incidental or consequential damages resulting from a breach of the written warranty or any warranty implied by law.

Except as expressly provided by **Railhead** in writing, **Railhead** products are intended for ultimate purchase by commercial users and for operation by persons trained and experienced in the use and maintenance of earth boring equipment and not for consumer use. **Railhead** warranties do not extend to, and no dealer is authorized to extend **Railhead** warranties to any consumer.

Railhead Quick Connect System



Connection Options

The following lists the different types of connection methods. You need a housing saver to fit a Basic Rotolock Connection. All connection methods may not be available to every machine type.

Direct Connect - This method of connection attaches directly to the drill rod of the machine, without the use of any type of lead rods or hex collars.

Manufacturer's Easy Connect - This method of connection attaches using the manufacturer's easy connect (i.e. pin to pin adapters or manufacturer's starter rods).

Railhead Quick Connect System - This method of connection includes a Railhead lead rod, hex collar, and reamer adapter. The Railhead system allows the tooling to be installed or removed with only 1-1/2 rotations. This allows for quick connection and disconnection of both drill heads and reamers.

End-Load Sonde Housing Adapter - This method of connection attaches an Incredibit to a screw-on adapter for end-load sonde housings with API Regular threads and IF threads.

General Instructions

Drilling

Drilling in Rock - The most important factor in a successful bore is patience. When drilling in harder formations it is important not to force the Incredibit, but let it drill at its own pace. Apply steady pressure. Too much pressure will burn the bit. Start with 500 pounds of forward thrust and move up as needed based on the conditions of the bore site. Rotational torque may also start at 500 pounds. It is seldom necessary to use more than 1,500 pounds of thrust. Slow rotation also gives the Incredibit more time to work. Simply allow the Incredibit to work while maintaining enough pressure to accomplish the job.

Drilling in Soft Conditions - The drilling technique used in soft conditions is similar to a flat bill bit.

Steering

Steering in Rock - The best method for steering in rock is to push into the rock and cut over to create a relief, pull back, rotate, and do it again. If you want to go to 12 o'clock with a standard Incredibit, you would normally push in at 10 and rotate to 2. With an aggressive Incredibit, you would push in at 9 and rotate to 1. After creating a relief, pull back and start drilling slowly into the relief. The Incredibit patented drill bit with concave steering channel will follow the point of least resistance.

Steering in Soft Conditions - Steering in soft conditions is similar to a flat bill bit - turn and push. However, since the Incredibit steers faster than other bits, you may only need to push half as far as you would with a flat bill bit to get the same result. New users should locate often to prevent over steering in soft conditions.

Assembly

Install the O-ring at the back of the Incredibit. Install the bolts, hand tight, in each of the bolt holes of the Incredibit. Tighten the bolts to the proper foot pounds using a torque wrench, according to the instructions included with your Incredibit or on the label at the back of the Incredibit.

INCRIDIBIT TORQUE GUIDE					
SIZE	2-3/4"	3"	3-1/2"	4-1/8"	5"
TORQUE	65 FT LBS	65 FT LBS	120 FT LBS	165 FT LBS	250 FT LBS

Reducing Wear

A major cause of wear on an Incredibit is insufficient or improper drilling mud. Mud is used to a) seal the hole, b) suspend the cuttings, and c) flush the cuttings out of the hole. If all the cuttings are not removed from the hole, all down hole tooling will wear prematurely. Never drill with plain water, or just water and polymer. When drilling in soft conditions, be careful not to outrun the mud.

The Incredibit needs volume not high pressure. Pressure greater than 500 psi or dirty mud from a mud recovery system will wash out the water ports of the Incredibit. The following chart shows the minimum volume of mud required to flush the cuttings from the hole for each size Incredibit.

Incredibit size	2-3/4"	3"	3-1/2"	4-1/8"	5"
Average hole diameter created	4-1/2"	5-1/2"	6-1/2"	9"	11"
Gallons of cuttings created per foot	0.83	1.23	1.73	3.31	4.94
Min. gallons of mud per foot to clean hole	2.48	3.70	5.17	9.91	15.2

Railhead Replacement Parts

Railhead offers an Exchange Program second to none for all Incredibits and Incredibit Housings. Simply call your dealer for details and we will have new bit, housing or both shipped today so you can be back to work tomorrow.

Incredibit Starter Kits

Part #	Description
5061	KIT 1503 Starter Kit
5062	KIT 1526/1528 Starter Kits
5064	KIT 1554/1555 Starter Kits
5065	KIT 1561/1562 Starter Kits
5066	KIT 1565 Starter Kit
5067	KIT 1581 Starter Kit

Incredibit Repair Kits

Part #	Description
5116	2 3/4" Rock Bit Repair Kit
5117	3" Rock Bit Repair Kit
5118	3 1/2" Rock Bit Repair Kit
5119	4 1/8" Rock Bit Repair Kit
5120	5" Rock Bit Repair Kit

Replacement O-Rings

Part #	Description
5201	O-Ring 2" x 3/32" 3" Sonde Housing
5202	O-Ring 1-3/8" x 1/8" 2.75"SH & Drive Chuck
5203	O-Ring 1-3/8"ID x 3/32"
5204	O-Ring for Reamer Shaft
5206	O-Ring 11/16" x 3/32" 2.75"ST Rock Bit
5207	O-Ring 1-3/8"x 3/16" 2"RAMON Lead Rod
5208	O-Ring 3/4"x 1/8" 2.75"& 3"Rock Bits
5209	O-Ring 1" x 1/8" 3.5"& 4-1/8"Rock Bits
5210	O-Ring 1.25id x .210/Ditch Witch
5211	O-Ring 1.1 x .279/digitrak Sondes
5212	Rubber Sonde Bumper .12 x .81 Round
5213	1-1/8"ODx7/8"ID O-ring 5"bit

Replacement Carbide Buttons

Part #	Description
5003	BP Carbide button 1/2" x 7/8" deep
5004	BP Carbide button .443 x.533 Two Angle
5007	BP Carbide button .443 x.343 Two Angle
5008	BP Carbide button .7830 x.573 Two Angle
5009	BP Carbide button .7830 x.993 Two Angle
5010	Large Carbide Button 1.400 x1.400



Socket Head Cap Screws - Reamer Nozzles

Part #	Description
5301	Button Cap Screw 10-24 x 3/8" SondeBlk
5302	Flat Washer #10 for Sonde blocks
5304	Blank Reamer Nozzle 1/4" x 18 NPT PP
5308	9/64" Reamer Nozzle 1/4"NPT
5309	5/32" Reamer Nozzle 1/4"NPT
5310	SHCS 3/8"16 x 1/2" Pellet Wtr Nozzle
5311	SHCS 3/8"16 x 3/4" Pellet Housing Door
5313	SHCS 3/8"16x1.25" Pellet 2.75 & 3" RBit
5314	SHCS 1/2"13 x 5/8" Pellet Hex Collar/SH
5316	SHCS 1/2"13 x 1.25" Pellet 3.5"Bit1 "DBk
5317	SHCS 12mm-1.75mm x 1" (3230 SH)
5318	SHCS 16mm-2mm x 1-1/4" (3260 SH)
5321	SHCS 3/8"16x3/8" 2&2.5"Hex Collar
5342	SHCS 14mm-2mm x 35mm 4-1/8"RockBit
5344	SHCS 3/4" 10 x 2" Pellet 5"Rock Bit
5347	SHCS 20mm-2.5mm x 40mm - Large DW
5514	BP Slide Hammer - Tool Only
5515	RP Puller/Driver - 5021 Points
5516	Point Puller for 12" Reamer
5520	RP Puller/Driver - 5022/5026 Teeth
5525	RP Puller/Driver - 5020/5023 Points
5526	1/8" Allen wrench for sonde blocks
5534	5/32" Allen Wrench for Sonde Block

Rock Points (Picks)

Part #	Description
5013	RP for 2-3/4" Rock Bit-General
5019	Rock Point for 3" rock bit, hard condition
5020	RP for 4-1/8" Std Rock Bit-General
5021	Rock Point for 3" rock bit, general condition
5023	RP for 4-1/8" Std Rock Bit-Hard
5024	RP for 4-1/8" 17/17 Rock Bit-General
5026	RP for 3-1/2 & 3-3/4" Rock Bit-Hard
5029	RP for 4-1/8" 17/17 Rock Bit-Hard
5030	RP 1555/1554 - EXTream Teeth w/Round Point
5031	RP1526/1528 - EXTream Teeth w/Round Point
5032	RP for 5" Rock Bit - Standard/8185 9" DirectBore
5033	RP For 13" Direct Bore I Bits



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Rock Tooling - Railhead Incredibit

Railhead Incredibit is engineered to drill through tough rocky conditions. The patented product allows it to out steer every other tool on the market, typically making corrections in half the time required by other imitators and conventional tooling. The design allows smaller machines that had been previously unsuccessful to complete tough condition bores.

Railhead Incredibit bores in a manner different than any other tool. By drilling in a random elliptical pattern, Railhead creates an annular space larger than the tooling. This reduces wear, increases flow and allows for faster corrections.

New designed door with thicker hold down tabs and a rounded top to increase the service life and added protection for your transmitter.

The hole created when drilling with the Railhead Incredibit is larger than other tools used. The table below indicates the average size holes based on the tooling size.

INCREDIBIT	1503	1526/1528	1554/1555	1562/1565	1581
Incredibit size	2-3/4"	3"	3-1/2"	4-1/8"	5"
Average hole diameter created	4-1/2"	5-1/2"	6-1/2"	9"	11"
Gallons of cuttings created per foot	0.83	1.23	1.73	3.31	4.94

Available in 2-3/4", 3", 3-1/2", 4-1/8" and 5" sizes, fits drills from 7,000# to 140,000#



INCREDIBIT HOUSING	1800	1810	1830	1860	1850	1880
Incredibit	1503	1503	1526/1528	1554/1555	1562/1565	1581
Bit Bolts	5313	5313	5313	5316	5342	5344
Lid Bolts	5311	5311	5311	5311	5311	5311
Nozzle Bolts	5310	5310	5310	5310	5310	N/A
O-Ring	5208	5208	5208	5209	5209	5213

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Rock Tooling - Railhead Incredibit Housing

Railhead Housings and Rock Bits incorporate the patented 'Stress Relief Structure' with the "key and keyway" design to take much of the side stress off the bolts. This reduces tool loss due to bolts breaking. The newly designed rounded door incorporates another patent with the "Door Hold Down Tabs". Simply drop the door in place, slide it back and install the bolts in front of the door. Housings require a Housing Saver which connects to the drill rod or quick connect system being utilized

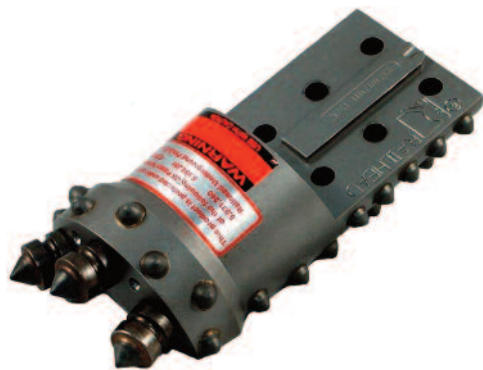
Incredibit Sonde Housings



Part #	Description
1800	SH 2-3/4" Non-Subsite Sonde Housing
1810	SH 2-3/4" Subsite 86B/BH Specific Sonde Housing
1830	SH 3-1/8" OD Sonde Housing
1850	SH 4-1/8" OD Sonde Housing
1860	SH 3-5/8" OD Sonde Housing
1880	SH 5" OD Sonde Housing

Incredibit Rock Bits

Part #	Description
1503	RB 2-3/4" Standard (1800/1810)
1526	RB 3" Standard (1830)
1528	RB 3" Aggressive (1830)
1554	RB 3-1/2" Standard (1860/1760)
1555	RB 3-3/4" Aggressive (1860/1760)
1562	RB 4-1/8" Standard (1850/1750/1751/1754)
1565	RB 4-1/8" Aggressive (1850/1750/1751/1754)
1581	RB 5" Standard (1880/1780/1782)



"Having recently observed a directional drill operating with a Railhead housing and Incredibit, I must say after 30 years of trenching and horizontal boring to install communication lines, this is the most efficient method of dealing with rock that I have seen. I was even more surprised to see how well the same bit also worked in normal soil."

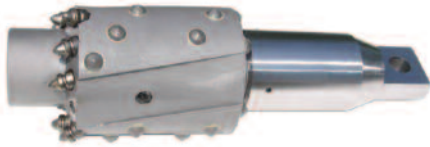
—Dick Myers, R E Myers Trenching, Kansas City, KS

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EXTReam Reamers

Part # Description

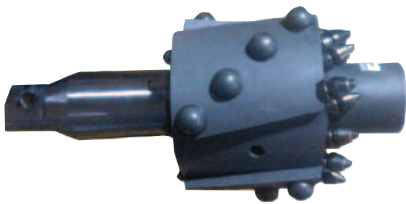


6" Reamer

- 1330 6" EXTReam (2-3/8 API Box)
 - 1340 8" EXTReam (2-3/8 API Box)
 - 1345 10" EXTReam (2-7/8 API Box)
 - 1350 12" EXTReam (3-1/2" Rotolock) *
 - 1360 12" EXTReam (4-1/8" Rotolock) *
 - 1370 16" EXTReam (4-1/8" Rotolock) *
- * Requires Housing Saver



8" Reamer



10" Reamer



16" Reamer



12" Reamer

EXTReam Reamers require housing savers or adapter to cross over between the drill pipe or lead rod to the reamer. Refer to the drill specific pages to determine the correct connection. EXTReam Reamers come standard with a complete set of teeth, jets, plugs, and puller/driver.

Pullers/ Drivers

- 5515 Rock Point Puller/ Driver (1526 & 1528 Rock Bits, 8" Reamers)
- 5516 Reamer Rock Point Puller (12" Reamers)
- 5520 Rock Point Puller/ Driver (1554 & 1555 Rock Bits, 16" Reamers)
- 5525 Rock Point Puller/ Driver (1562, & 1565 Rock Bits)



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DirectBore Tooling

The **DirectBore** is for those jobs that do not require a Railhead Incredibit. Made from the finest alloys available, the DirectBore housing is available in sizes to fit 15,000 up to 80,000 pound drills. The box end on the housing allows the DirectBore Rock Bits to be screwed in without the use of any shims or pins. The Sonde Blocks can be clocked to align the sonde inside the housing. This is easily changed should the bit become over-torqued on the housing. The housings incorporate many features found in Railhead housing. Tri-lok doors reduce twisting of the housing and keep your electronics in place.

Housings require a Housing Saver which connects to the drill rod or quick connect system being utilized.

Part # Description

DirectBore Rock Bits

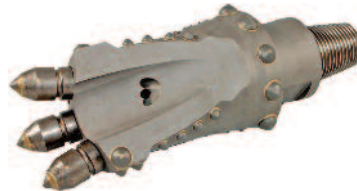
8130	2" IF Pin DirectBore I
8145	2-3/8" API Pin Standard DirectBore I
8148	2-3/8" API Pin Aggressive DirectBore I
8150	2-7/8" API Pin DirectBore I



2" IF Pin DirectBore Bit



2 3/8" API Pin Standard DirectBore 1



2 7/8" API Pin DirectBore 1

DirectBore Sonde Housings

8460	3 5/8" SH 2-3/8" API Box Sonde Housing * Designed for 24,000 to 40,000 # machines
8430	3 1/8" SH 2" IF Box Sonde Housing * Used with 12,000 to 20,000 # machines
8450	4" SH 4-1/8" Rotolock 2-7/8" API Box



2 3/8" API Box Sonde Housing

Sonde Blocks

4748	Subsite 86 (B or BH) (for 8460) Clockable
4747	Digitrak (for 8460) Clockable
4749	Subsite 86 BV2

* Refer to Drill Specific pages for connection options

DIRECT BORE HOUSING	8430	8450	8460
Direct Bore Bit	8130 (2"IF)	8150 (2-7/8 API)	8145/8148 (2- 3/8 API)
Rock Teeth Hard Condition	5026	5023	5026
Rock Teeth Cobble	5030	5020 (general)	5030
Housing Lid Bolt	5311	5311	5311

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Dirt Tooling - RAM Housings

Railhead RAM Housings for dirt tooling incorporate the use of sonde blocks and water nozzles. All Housings are adaptable to a variety of drills and connections by use of the Housing Savers, which are the same as those used on our rock tooling. Call a dealer near you for details.



7 Hole Bolt Pattern



5 Hole Bolt Pattern



6 Hole Bolt Pattern

RAM HOUSINGS	3100	3120	3160	3200	3230	3260
Bolt Pattern	7 Hole	7 Hole	7 Hole	5 Hole	5 Hole	6 Hole
Bit Bolt	5316	5316	5316	5317	5317	5318
Water Nozzle Bolt	5310	5310	5310	5310	5310	5310
Housing Lid Bolt	5311	5311	5311	5311	5311	5311

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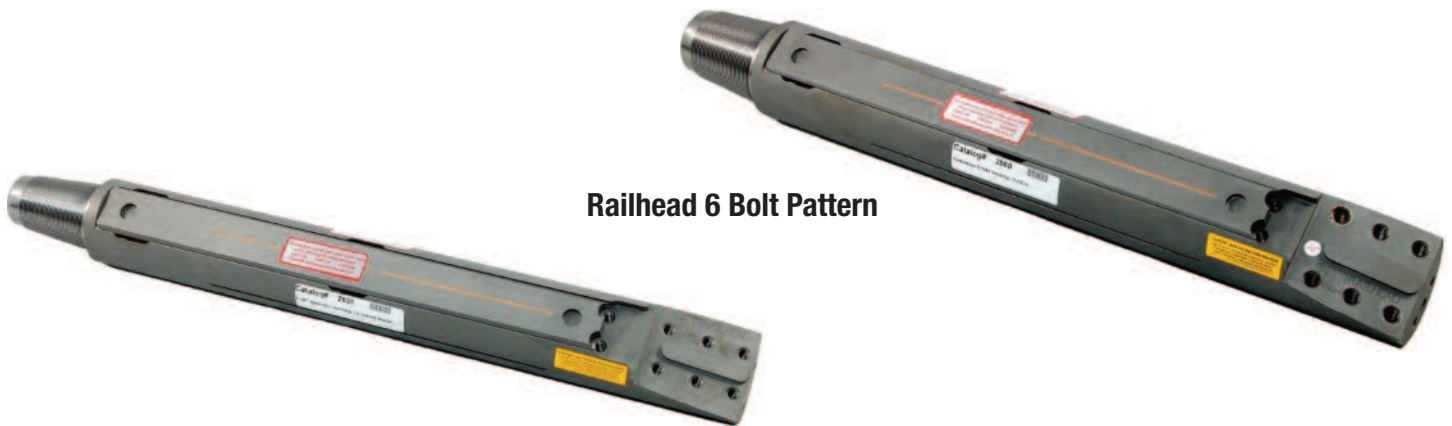
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Railhead Dirt Tooling - Endurance Housings

Railhead Endurance Housings incorporate the patented Stress Relief Structure with the key and keyway design to take much of the side stress off the bolts. This greatly reduces tool loss due to bolts breaking. The newly designed rounded door incorporates another patent with the Door Hold Down Tabs. Simply drop the door in place, slide it back and install the bolts in front of the door.

Railhead Endurance Housings

Part #	Description
2830	SH 3" Endurance 3" Rotolock
2860	SH 3-1/2" Endurance Housing



Railhead 6 Bolt Pattern

ENDURANCE HOUSINGS	2830	2860
Bolt Pattern	Railhead 6 Bolt	Railhead 6 Bolt
Bit Bolt	5313	5316
Water Nozzle Bolt	5310	5310
Housing Lid Bolt	5311	5311

Railhead Endurance Paddle Bits

Endurance Paddle Bits incorporate the patented Stress Relief Structure with the key and keyway design to take much of the side stress of the bolts. These bits fit our Endurance Housings found on page 6. Available in sizes from 3-1/2" to 6" wide. Call a dealer near you for details.

Part # Description

Railhead Bolt Pattern

2210H	DB 3-1/2" Sharp Shooter w/Pulling Hole (2-3/4" or 3" Housings)
2213H	DB 3-1/2" Iron Claw w/Pulling Hole (2-3/4" or 3" Housings)
2215H	DB 3-1/2" Button Bit w/Pulling Hole (2-3/4" or 3" Housings)
2220H	DB 4" Sharp Shooter w/Pulling Hole (2-3/4" or 3" Housings)
2223H	DB 4" Iron Claw w/Pulling Hole (2-3/4" or 3" Housings)
2225H	DB 4" Button Bit w/Pulling Hole (2-3/4" or 3" Housings)
2230H	DB 4" Sharp Shooter w/Pulling Hole (3-1/2" Housings)
2233H	DB 4" Iron Claw w/Pulling Hole (3-1/2" Housings)
2235H	DB 4" Button Bit w/Pulling Hole (3-1/2" Housings)
2240H	DB 5" Sharp Shooter w/Pulling Hole (3-1/2" Housings)
2243H	DB 5" Iron Claw w/Pulling Hole (3-1/2" Housings)
2245H	DB 5" Button Bit w/Pulling Hole (3-1/2" Housings)
2247	DB 5" Steep Taper Roughneck (3-1/2" Housings)
2250H	DB 5" Sharp Shooter w/Pulling Hole (4-1/8" Housings)
2253H	DB 5" Iron Claw w/Pulling Hole (4-1/8" Housings)
2255H	DB 5" Button Bit w/Pulling Hole (4-1/8" Housings)
2260H	DB 6" Sharp Shooter w/Pulling Hole (4-1/8" Housings)
2263H	DB 6" Iron Claw w/Pulling Hole (4-1/8" Housings)
2265H	DB 6" Button Bit w/Pulling Hole (4-1/8" Housings)



Iron Claw



Sharp Shooter



Button Bit



Steep Taper Roughneck Bit

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Railhead RAM Paddle Bits

Part # Description

5 & 6 Hole Bolt Pattern



Claw Bit



Cutter Bit



Rough Neck Bit



Spike Point Bit

7340	RAM 4" Spike Point Bit (12mm DW 4 Bolt Pattern)
7350	RAM 3-1/2" Claw Bit (12mm DW 5 Bolt Pattern)
7351	RAM 3-1/2" Taper Bit (12mm DW 5 Bolt Pattern)
7352	RAM 3-1/2" Cutter Bit (12mm DW 5 Bolt Pattern)
7353	RAM 3-1/2" Spike Point Bit (12mm DW 5 Bolt Pattern)
7354	RAM 3-1/2" Button Bit (12mm DW 5 Bolt Pattern)
7356	RAM 3.5" Steep Taper Roughneck 5 Bolt DW
7374	RAM 4" Steep Taper Roughneck 5 Bolt DW
7375	RAM 4" Claw Bit (12mm DW 5 Bolt Pattern)
7376	RAM 4" Taper Bit (12mm DW 5 Bolt Pattern)
7377	RAM 4" Cutter Bit (12mm DW 5 Bolt Pattern)
7378	RAM 4" Spike Point Bit (12mm DW 5 Bolt Pattern)
7379	RAM 4" Button Bit (12mm DW 5 Bolt Pattern)
7384	RAM 5" Steep Taper Roughneck 5 Bolt DW
7400	RAM 4" Claw Bit (16mm DW 6 Bolt Pattern)
7401	RAM 4" Taper Bit (16mm DW 6 Bolt Pattern)
7402	RAM 4" Cutter Bit (16mm DW 6 Bolt Pattern)
7403	RAM 4" Spike Point Bit (16mm DW 6 Bolt Pattern)
7404	RAM 4" Button Bit (16mm DW 6 Bolt Pattern)
7423	RAM 5" Steep Taper Roughneck 6 Bolt DW
7425	RAM 5" Claw Bit (16mm DW 6 Bolt Pattern)
7426	RAM 5" Taper Bit (16mm DW 6 Bolt Pattern)
7427	RAM 5" Cutter Bit (16mm DW 6 Bolt Pattern)
7428	RAM 5" Spike Point Bit (16mm DW 6 Bolt Pattern)
7429	RAM 5" Button Bit (16mm DW 6 Bolt Pattern)
7443	RAM 6" Steep Taper Roughneck 6 Bolt DW 20 mm
7450	RAM 3-1/2" Claw Bit (1/2" VM 7 Bolt Pattern)
7451	RAM 3-1/2" Taper Bit (1/2" VM 7 Bolt Pattern)
7452	RAM 3-1/2" Cutter Bit (1/2" VM 7 Bolt Pattern)
7453	RAM 3-1/2" Spike Point Bit (1/2" VM 7 Bolt Pattern)
7454	RAM 3-1/2" Button Bit (1/2" VM 7 Bolt Pattern)
7475	RAM 4" Claw Bit (1/2" VM 7 Bolt Pattern)
7476	RAM 4" Taper Bit (1/2" VM 7 Bolt Pattern)
7477	RAM 4" Cutter Bit (1/2" VM 7 Bolt Pattern)
7478	RAM 4" Spike Point Bit (1/2" VM 7 Bolt Pattern)
7479	RAM 4" Button Bit (1/2" VM 7 Bolt Pattern)
7500	RAM 5" Claw Bit (1/2" VM 7 Bolt Pattern)
7501	RAM 5" Taper Bit (1/2" VM 7 Bolt Pattern)
7502	RAM 5" Cutter Bit (1/2" VM 7 Bolt Pattern)
7503	RAM 5" Spike Point Bit (1/2" VM 7 Bolt Pattern)
7504	RAM 5" Button Bit (1/2" VM 7 Bolt Pattern)
7507	RAM 5" Steep Taper Roughneck 7 Bolt VM

Railhead Water Nozzles and Sonde Blocks

Water Nozzle Blocks



Part

2150
2157
2158
2160

Description

Water Nozzle – Blank
Water Nozzle Assembly – 2-hole .096 Orifice
Water Nozzle Assembly – 1-hole .250 Orifice
Water Nozzle Single - .250 Orifice for 1850 SH



Sonde Blocks

Part

4701
4704
4716
4735
4736
4737
4747
4748
4749

Description

Blue End Rubber Subsite 86 B2B
SB (Set) 1860/1850 Subsite 86
SB (Set) 1800 Digitrak
SB (Set) 1860/1850 Digitrak
SB (Set) 1860/1850 RadioDetect
SB (Set) 1860/1850 McLaughlin
SB (Set) Digitrak for 84xx Housings
SB (Set) Subsite for 84xx Housings
SB (Kit) Subsite BV2 / DW 850



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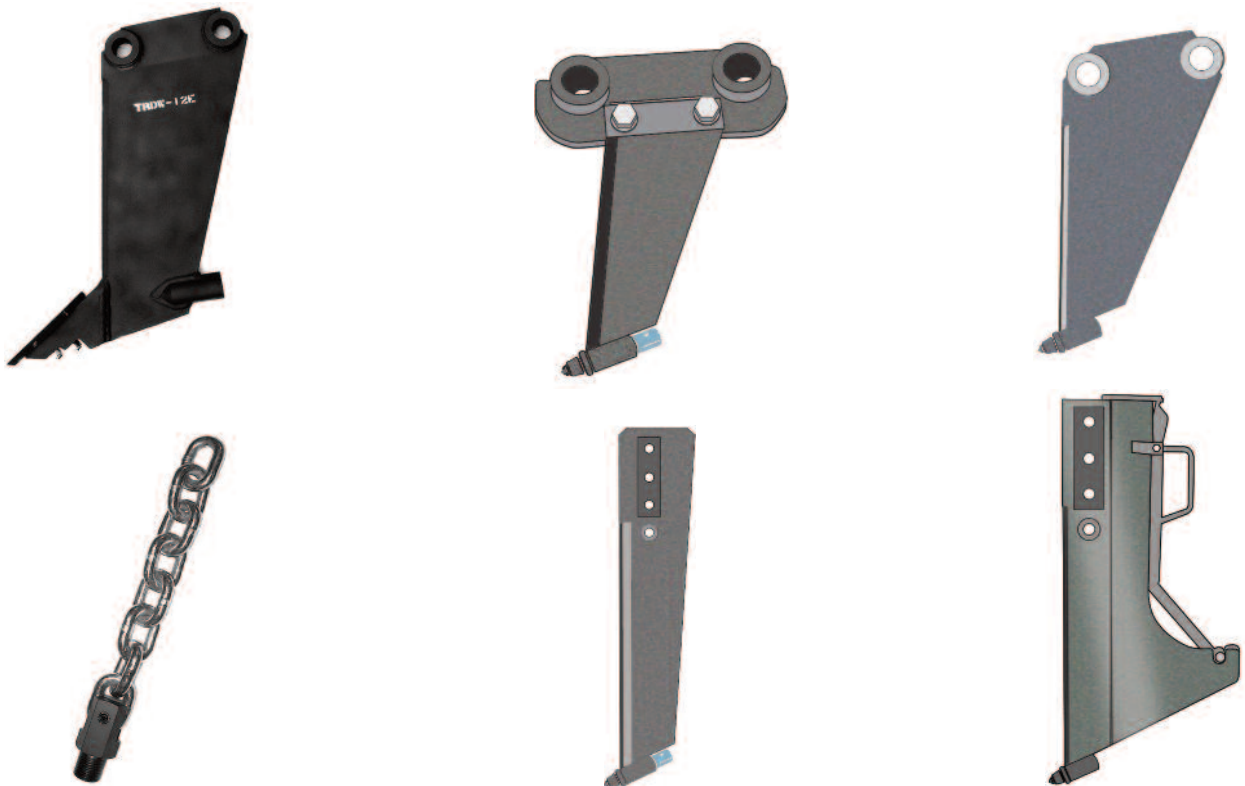
Bore Pro

Railhead offers a complete line of plow blades and compaction tooling for all makes and models of plows. Check out the BorePro pages on our website at www.railhead.com. Custom styles and special requirements are available. All products are manufactured in the U.S.A. and are usually available to ship within one to two business days.

Compaction Boring Tools for all major manufacturers.



Plow and Chute Blades to fit all major manufacturers.



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Drive Chucks and Sub-Savers

We are now providing Drive Chucks for many HDD rigs. Machined to the precise and exacting standards you expect. Machined using the finest Chrome-Moly steel. Call us today for a dealer near you.

Drive Chucks - Sub Savers



Part

11400
11401
11404
11402
11412
11413
11414
11415
11416
11417
11425
11426
11427
11428
11429
11430
11431

Description

1.41 Box-DW Flange 920-920L
1.69 Box-DW Flange 1720
JT2020 Drive Chuck
1.94 Box-DW Flange 2720
1.66 FS Pin-Vm 7/11
1.66 FS Pin-Vm 10/15
2.06 FS Pin-Vm 20/22-24/26
2-3/8 FS Pin-Vm 24/40
2-7/8 FS Pin-Vm 50/100-80/100
3-1/2 FS Pin-Vm 50/100-80/100
1.66 FS Pin X Box Vm Sub Saver
1.90 FS Pin x Box Vm Sub Saver
2.06 FS Pin x Box Vm Sub Saver
2-3/8 FS Pin x Box Vm 7.5 Sub Saver
2-3/8 FS Pin X Box Vm 9.5 Sub Saver
2-7/8 FS Pin X Box Vm Sub Saver
3-1/2 FS Pin x Box Vm Sub Saver

Sub-Savers are CNC manufactured from 163,000 PSI Tensile Strength Chrome-Moly steel to insure long lasting, durable quality and precision fit.



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Tool Adapters

Part #	Description		
1403	1TA 2.5" RAMON Pin 2-7/8" IF Pin	14041	2" I.F. Pin X 2.375 API REG. Pin
1404	1TA 2.5" RAMON Pin 3.27 FldMiser Pin	14045	2-3/8" API Pin X 2.875 API REG. Box
1405	1TA 2.5" RAMON Pin 2-1/8" VermLP Pin	14046	2-3/8" API Pin X 2.875 API REG. Pin
1406	2TA 2.5" RAMON Pin-2-3/8" Case Pin	14047	2-3/8" API Pin X 3.500 API REG. Box
1409	2TA 2.5" RAMON Pin-2.06" Fldmsr Pin	14048	2-3/8" API Pin X 3.500 API REG. Pin
1410	1TA 2.5" RAMON Pin 2-3/8" MayhewJr Pi	14049	2-3/8" API Pin X 2.375 API IF Box
1411	1TA 2.5" RAMON Pin 2-3/8" API Pin	14050	2-3/8" API Pin X 2.375 API IF Pin
1413	2TA 2.5" RAMON Pin 2-1/8" VermLP Box	14051	2-3/8" API Pin X 2.875 API IF Box
1414	2TA 2.5" RAMON Pin 2"UNJ Box	14052	2-3/8" API Pin X 2.875 API IF Pin
1426	1TA 2" UNJ Pin - Ver LP Box	14056	2-7/8" I.F. Pin X 2.375 API IF Box
1428	1TA 2" RAMON Pin - 2-3/8" API Pin	14057	2-7/8" I.F. Pin X 2.375 API IF Pin
1429	1TA 2" RAMON Pin - 2" IF Pin	14058	2-7/8" I.F. Pin X 2.875 API IF Box
1430	1TA 2" RAMON Pin - 2-1/8" LP Box	14059	2-7/8" I.F. Pin X 2.875 API IF Pin
1431	1TA 2-3/8 API Pin - 2.06 FS1 Box	14060	2-7/8" I.F. Pin X 3.500 API IF Box
1434	TA 2-3/8 API Pin X 1-5/8 LPT Pin	14061	2-7/8" I.F. Pin X 3.500 API IF Pin
1435	1TA 2-3/8"API Pin 2-1/8" Verm LP Pin	14065	3-1/2" I.F. Pin X 2.375 API IF Box
1437	1TA 2.5" RAMON Pin 2.52" FldMisr Pin	14066	3-1/2" I.F. Pin X 2.375 API IF Pin
1439	1TA 2-3/8"API Pin 1.63 DW EZ2 Box	14067	3-1/2" I.F. Pin X 2.875 API IF Box
1440	1TA 2-3/8"API Pin 1.88 DW EZ2 Box	14068	3-1/2" I.F. Pin X 2.875 API IF Pin
1441	1TA 2-3/8"API Pin 2.0 DW EZ2 Box	14069	3-1/2" I.F. Pin X 3.500 API IF Box
1442	1TA 2-3/8"API Pin 2.25 DW EZ2 Box	14070	3-1/2" I.F. Pin X 3.500 API IF Pin
1443	1TA 2.5" RAMON Pin 2.59" FldMsr Pin	14074	2" I.F. Pin X EZ 2 Box JT 920/920L
1444	TA 2-3/8 API Pin X 2.25 EZIII Box	14075	2" I.F. Pin X EZ 3 Box JT 1220 M1
1448	1TA 2.5" RAMON Pin 2.59 FldMisr Box	14076	2" I.F. Pin X EZ 2 Box JT 1720, JT 1720 M1, JT 2020 M1, JT 2720
1449	1TA 2.5" RAMON Pin 2-3/8" Astec Pin	14077	2" I.F. Pin X EZ 2 Box JT 2720 M1
1450	1TA 2.5" RAMON Pin 2-3/8" PAC DS Pin	14078	2" I.F. Pin X EZ 3 Box JT 3020 M1
1453	1TA 2-7/8"API Pin 2.63 DW EZ2 Box	14082	2" I.F. Pin X JT 820, 920/1/2 Direct Connect DW Pin
1454	TA 2-7/8" API Pin X 2-1/8 LPT Pin	14083	2" I.F. Pin X JT 1220 M1 Direct Connect DW Pin
1460	TA 2-7/8" API Pin X 2-7/8 FSI Box	14084	2" I.F. Pin X JT 1720, JT 1720 M1 Direct Connect DW Pin
1461	TA 2-7/8" API Pin X 3-1/2 FSI Box	14085	2" I.F. Pin X JT 2720, JT 2020 M1 Direct Connect DW Pin
1462	TA 3-1/2" API Pin X 3-1/2 FSI Box	14086	2" I.F. Pin X JT 2720 M1, JT 3020 M1 Direct Connect DW Pin
14014	2-3/8" API Pin X 1.66" FST 1 #200 Box for D6 x 6 thru D10 x 15	14095	2-3/8" API Pin X EZ 2 Box JT 4020 M1, EZ 2
14015	2-3/8" API Pin X 1.90" FST 1 #250 Box for D16 x 20 thru D20x22	14099	2-3/8" API Pin X JT 1720, JT 1720 M1 Direct Connect DW Pin
14017	2-3/8" API Pin X 2.375" FST 1 #600 Box for D24x40 thru D24x40 II	14100	2-3/8" API Pin X JT 2720, JT 2020 M1 Direct Connect DW Pin
14018	2-3/8" API Pin X 2.375" FST 1 #650 Box for D33x44 thru D40x40	14101	2-3/8" API Pin X JT 2720 M1, JT 3020 M1 Direct Connect DW Pin
14019	2-3/8" API Pin X 2.625" FST 1 #700 Box for D36x50 II	14102	2-3/8" API Pin X JT 4020 Direct Connect DW Pin
14020	2-3/8" API Pin X 2.875" FST 1 #900 Box for D50 x100, D50x100A	14103	2-3/8" API Pin X JT 4020 M1 Direct Connect DW Pin
14021	2-3/8" API Pin X 3.50" FST 1 #800 Box for D50x100A thru D80x100 II	14107	2-7/8" I.F. Pin X EZ 2 Box JT 1720, JT 1720 M1, JT 2020 M1, JT 2720
14025	2-7/8" I.F. Pin X 2.375" FST 1 #600 Box for D24 x 40 thru D24 x 40 II	14108	2-7/8" I.F. Pin X EZ 2 Box JT 2720 M1
14026	2-7/8" I.F. Pin X 2.375" FST 1 #650 Box for D33x44 thru D40x40	14109	2-7/8" I.F. Pin X EZ 3 Box JT 3020 M1
14027	2-7/8" I.F. Pin X 2.625" FST 1 #700 Box for D36 x 50 II	14110	2-7/8" I.F. Pin X EZ 2 Box JT 4020 M1
14028	2-7/8" I.F. Pin X 2.875" FST 1 #900 Box for D50 x 100, D50 x 100A	14114	2-7/8" I.F. Pin X JT 2720 M1, JT 3020 M1 Direct Connect DW Pin
14029	2-7/8" I.F. Pin X 3.50" FST 1 #800 Box for D50 x 100A thru D80 x 100 II	14115	2-7/8" I.F. Pin X JT 4020 Direct Connect DW Pin
14030	2-7/8" I.F. Pin X 3.50" FST 1 #1000 Box for D100 x 120 II	14116	2-7/8" I.F. Pin X JT 4020 M1 Direct Connect DW Pin
14034	3-1/2" I.F. Pin X 3.50" FST 1 #800 Box for D50 x 100A thru D80x100 II		
14035	3-1/2" I.F. Pin X 3.50" FST 1 #1000 Box for D100x120 II		
14040	2" I.F. Pin X 2.375 API REG. Box		



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Duct Pullers and Slings

Duct Pullers - Carrots



Part #	Description
10364	Duct Puller 0.72"-0.93" w/ Rear Lug
10365	Duct Puller 1" w/ Rear Lug
10366	Duct Puller 1"SDR21 w/ Rear Lug
10367	Duct Puller 1.25" w/ Rear Lug
10368	Duct Puller 1.5" w/ Rear Lug
10369	Duct Puller 2" w/ Rear Lug
10370	Duct Puller 1.75" w/ Rear Lug



Expandable Duct Pullers



Part #	Description
11240	2" Expand Duct Puller With Sleeve
11242	2" Expand Duct Puller W/O Sleeve
11244	4" Expand Duct Puller With Sleeve
11247	4" Expand Duct Puller W/O Sleeve



Wire Rope Pulling Slings

Part #	Description
10378	Sling 2 Leg 1/4" 4K Work Load
10379	Sling 3 Leg 1/4" 6.5K Work Load
10380	Sling 4 Leg 1/4" 6.5K Work Load
10381	Sling 5 Leg 1/4" 6.5K Work Load
10382	Sling 6 Leg 1/4" 6.5K Work Load
10383	Sling 2 Leg 3/8" 9.5K Work Load
10384	Sling 3 Leg 3/8" 9.5K Work Load
10385	Sling 4 Leg 3/8" 13K Work Load
10386	Sling 5 Leg 3/8" 13K Work Load
10387	Sling 6 Leg 3/8" 13K Work Load
10388	Sling 2 Leg 1/2" 13K Work Load
10389	Sling 3 Leg 1/2" 13K Work Load
10390	Sling 4 Leg 1/2" 17K Work Load
10391	Sling 5 Leg 1/2" 17K Work Load
10392	Sling 6 Leg 1/2" 17K Work Load



Swivels and Pulling Eyes

The Extreme Duty Pullers are specifically designed to swivel under high tension loads in the harsh environment of Directional Boring. They are manufactured using high strength, quenched and tempered, Chrome-Moly steel.

The Extreme Duty Swivels are fitted with side-mounted grease fittings for easy lubrication and a multiple sealing system to retain the lubricant and repel external contaminants. They also contain bi-directional bearings allowing them to be pulled from either end without any loss of pullback rating.

The 60K and 90K Extreme Duty Swivels come standard with a locking pin to prohibit the loss of the clevis pin. This is accomplished with the use of a hex pin on the shoulder side of the clevis pin that locks into a built-in groove. No more worries about tearing up the threads of the pin and no exposed head or nut to catch and snag.

Sealed Bearing Pullback Swivels

Part #	Description
10908	Pullback Swivel Grease - 14oz Cartridge
10909	Roller Bearing Swivel - 8.5K WorkLoad
10910	Roller Bearing Swivel - 10K WorkLoad
10911	Roller Bearing Swivel - 8.5K-Bolt On
10912	Roller Bearing Swivel - 12K WorkLoad
10914	Roller Bearing Swivel - 15K WorkLoad
10916	Roller Bearing Swivel - 22K WorkLoad
10918	Roller Bearing Swivel - 32K WorkLoad
10919	Roller Bearing Swivel - 44K WorkLoad
10920	Roller Bearing Swivel - 60K WorkLoad
10922	Roller Bearing Swivel - 90K Clvs/Box
10923	Roller Bearing Swivel - 90K Clvs/Clvs
10924	Roller Bearing Swivel-120K WorkLoad



Direct Connect Reamer Swivels

Part #	Description
6274	2.75" Shaft / 2" I.F. Box 12,000# Swivel
6275	2.75" Shaft / 2" I.F. Box 22,000# Swivel
6276	2.75" Shaft / 2" I.F. Box 32,000# Swivel
6277	2.75" Shaft / 2" I.F. Box 44,000# Swivel
6278	3.25" Shaft / 2-3/8" API Box 22,000# Swivel
6279	3.25" Shaft / 2-3/8" API Box 32,000# Swivel
6280	3.25" Shaft / 2-3/8" API Box 44,000# Swivel
6281	4.25" Shaft / 2-7/8" API Box 60,000# Swivel
6282	4.25" Shaft / 2-7/8" API Box 90,000# Swivel
6283	4.75" Shaft / 3-1/2" API Box 60,000# Swivel
6284	4.75" Shaft / 3-1/2" API Box 90,000# Swivel
6285	4.75" Shaft / 3-1/2" API Box 120,000# Swivel



Pulling Eyes

Part #	Description
3002	Pulling Eye Sub - 2" RAMON Pin
3003	Pulling Eye Sub - 2 1/2" RAMON Pin
3004	Pulling Eye Sub - 2" UNJ Pin
3005	Pulling Eye Sub DW 1.63 EZ II Box
3007	Pulling Eye Sub DW 2.00 EZ II Box
3008	Pulling Eye Sub - 1-5/8" Verm LP Pin
3009	Pulling Eye Sub - 2-1/8" LP Pin
3010	2-3/8" API Pin X 25 Ton Pulling Eye
3011	2" I.F. Pin X 12 Ton Pulling Eye
3012	2-3/8" API Pin X 12 Ton Pulling Eye



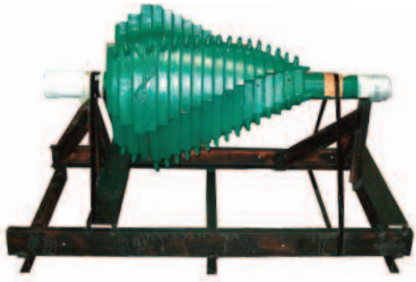
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RAM Reamers

Ram Reamers come with a 2" IF, 2-3/8", 2-7/8", or 3-1/2" API box front and back and will accept any API crossover, Pulling Eye, or Direct Connect Swivel. All Reamers are manufactured with a one piece machined HT 4140 shaft. *No tubing is used in these reamers.*

** Additional sizes and configurations of Ram Reamers available upon request.



Stacked Plate Reamers

available in 16" to 36" diameter

These stacked plate reamers feature a slow taper design and deep spiral fluting for smooth cutting and maximum mixing action. They are available with a built-in 15K, 25K or 50K swivel, drawbar, pin or box rear connection. Specify the number of rows of teeth for your soil conditions. The stacked plate reamers can be built as a bi-directional or push reamer if required.

Solid Body Fluted Reamers

available in 4 1/2" to 14" diameter

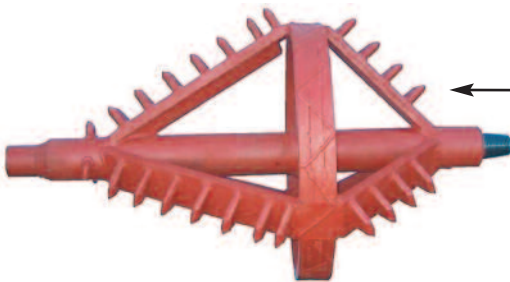
Machined from solid alloy steel bars, and heat treated for Strength and durability, these solid body reamers are Available with built-in 15K, 25K or 50K swivel, drawbar or pin. The API box fronts will accept any API pin crossover to your thread. Available with carbide shark's teeth or conical teeth.



Wing Reamers

available in 10" to 36" diameter

Fabricated from heat treated alloy steel for strength and durability, These Winged reamers are available with a built-in 15K, 25K or 50K swivel or drawbar, pin or box rear connection. All sizes include a packing wheel to stabilize the reamer.



RAM Reamers

Made from heat treated alloy steel for strength and durability, the Clay reamers feature an aggressive cutting action coupled with a superior mixing action for those sandy loam and clay bores. Reamers have API REG box fronts and are available with built-in swivel, drawbar, pin or box rear connection. The API REG box fronts will accept any API pin crossover needed to attach to your drill.



Clay Reamers
available in 6" to 36" diameter

Taper Wing Fly Cutter Reamer
available in 10" to 36" diameter
3 wing standard
Additional wings available upon request



Groundhawg Reamer
available in 6" to 24.5" diameter

Sand Shark Reamer
available in 6" to 36" diameter



Tapered Barrel and Straight Barrel Reamers

Tapered available in 6" to 32" diameter
Barrel available in 12.8 to 48" diameter



Tapered barrel reamers feature shark teeth carbide cutters in a spiral pattern, and a "packer" barrel rear for stability. Our barrel reamer design features rows of fixed conical carbide cutters on the reamer's face that permit the reamer to cut slightly larger than its outside diameter to allow slurry to flow past the tool. Other features include: 1) diameter compaction, 2) carbide hardfacing on critical wear areas, including the front of cutters, for long life, 3) replaceable fluid jets, and 4) clean-out plug. Both Barrel Reamers may also be used as a centering reamer and pulled in tandem.



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Railhead RAMON Quick Connect Tooling

The **Railhead Quick Connect** system is the finest of its kind in the market. You can attach and remove your drill head or reamer in less than 2 turns. Also, we have never experienced a pin breakage problem. These facts make our system the fastest and strongest quick connect system available.

Ramon Lead Rods

Part #	Description
1206	1LR 2.5" RAMON Box 2-3/8" Mayhew Box
1214	2LR 2.5" RAMON Box 2-5/8" QD-65 Box
1233	2LR 2.5" RAMON Box 2.06 FM Pin
1237	2LR 2.5" RAMON Box 2-3/8" Case Box
1240	1 LR 2-1/2" RAMON Box X 2.52 Fluid Miser Pin
1241	1LR 2.5" RAMON Box 2-3/8" FS BoxShort
1251	1LR 2" RAMON Box 1.66 FST Box



1252	1LR 2" RAMON Box 1.90 FST Box
1253	1LR 2" RAMON Box 2.06 FST Box
1254	1LR 2" RAMON Box 2-1/16" Case BM Box
1255	1LR 2" RAMON Box 2-3/8" H1SW1 FS Box
1258	1LR 2" RAMON Box 2.06 FluidMiser Pin
1259	1LR 2.5" RAMON Box 2-3/8" FSII Box
1263	2LR 2.5" RAMON Box DW 2.11 Mach1 Pin
1266	1LR 2" RAMON Box 1.66 Astec Box
1267	1LR 2" RAMON Box 2.06 Astec Box
1269	1LR 2.5" RAMON Box 2-3/8" Frstck Box
1270	1LR 2.5" RAMON Box 2-3/8" Astec Box
1271	1LR 2.5" RAMON Box 2-3/8" PAC DS Box
1272	1LR 2.5" RAMON Box T1-650-10 FS1 Box
1273	1LR 2.5" RAMON Box T1-700-15 FS1 Box



Ramon Hex Collars

Part #	Description
1107	HC 3.50" OD x.50"wall x 2-1/2" hex 3 hole
1108	HC 4.25" OD x.625"wall x 3" hex
1113	HC 4.25" OD 3" Hex ID w/Hard Surface
1114	HC 3.5" OD 2.5" Hex ID w/Hard Surface



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Manufacturers Easy Connect Tooling

Ditch Witch Transition Rods

Part #	Description
12020	Starter Rod JT920 Standard DW
12021	Starter Rod JT1220M1 Standard DW
12022	Starter Rod JT1720 Standard DW
12023	Starter Rod JT2720 Standard DW
12024	Starter Rod JT2020M1 Standard DW
12025	Starter Rod JT3020 Mach I DW
12026	Starter Rod JT4020M1 Standard DW



Ditch Witch Collars

Part #	Description
11316	2" Stnd DW EZ2 JT920, 920L, 921, 922
11317	2" HF DW EZ2 JT920, 920L, 921,922
11318	2.25" Stnd DW EZ3 JT1220 M1 Collar
11319	2.25" HF DW EZ3 JT1220 M1 Collar
1136	2.5" Stnd DWEZ2 JT1720M,2020M,JT2720
1115	2.5" HF DWEZ2 JT1720M1,2020M1,JT2720
11322	2.75" Stnd DW EZ2 JT2720 M1 Collar
11323	2.75" HF DW EZ2 JT2720 M1 Collar
11324	2.75" Stnd DWEZ3 27 & 30AT, 3020 M1 EZ2
11325	2.75" HF DWEZ3 27 & 30AT, 3020 M1 EZ2
11326	3" Stnd DW EZ2 4020M1 2720AT, 3020AT
11327	3" HF DW EZ2 4020M1, 2720AT, 3020AT



Vermeer Starter Rods

Part #	Description
1219	Starter Rod 24 x 40 Standard Verm
1235	1LR - Long - 1.90 FST / 3" SH
12010	Starter Rod 7 x 11 - 1.66 FS1 Verm
12011	Starter Rod 16x 20-18 & 20 x 22 1.90FS1
12012	Starter Rod 16 x 20-18 & 20 x 22 2.06FS1
12014	Fits Vermeer 24 x 40, 40x40 - FST 1 #600 x QF #400***
12018	Fits Vermeer 36 x50 - FST 1 #650 x 2.125 LP
12019	Fits Vermeer 36 x 50 - FST 1 #700 x 2.125 LP



Vermeer Collars

Part #	Description
1116	2.5" Hardfaced Vermeer Hex Collar
1126	2.5" Standard Vermeer Hex Collar
11310	2" Standard Vermeer Hex Collar
11311	2" Hardfaced Vermeer Hex Collar

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Housing Savers

Housing Savers are used with all Railhead Housings to greatly reduce your repair costs. Rather than replacing the entire housing, you simply replace the housings saver. If you do not see your connection or have questions about what you need, please call us and our friendly staff will steer you in the right direction.

Housing Savers for 2-3/4" Housings

Part #	Description
4301	1-5/8" Verm LP Pin X 2-3/4" Rotolock box
4303	DW EZ2 2.00 Box JT920 X 2-3/4" Rotolock Box
4304	1.66 FST Box X 2-3/4" Rotolock Box
4308	1.41" Fluid Miser Pin X 2-3/4" Rotolock Box
4414	2-1/8 Verm LP Pin X 2-3/4" Rotolock Box
4415	DW EZ2 1.63 Box X 2-3/4" Rotolock Box
4416	2.06 Fluid Miser Box X 2-3/4" Rotolock Box
4417	DW EZ2 1.88 Box JT1220M1 X 2 3/4" Rotolock Box
4422	1.66 Actec Box X 2-3/4" Rotolock Box
4424	2" RAMON Pin X 2-3/4" Rotolock Box
4437	QF300 Pin 2-3/4" Rotolock Box

Housing Savers for 3-1/8" Housings

Part #	Description
4305	2-1/8" Verm LP Pin X 3" Rotolock Box
4354	2.06" FST Box X 3" Rotolock Box
4355	1.90" FST Box X 3" Rotolock Box
4356	2" UNJ Pin X 3" Rotolock Box
4364	2.06" FluidMiser Box X 3" Rotolock Box
4382	DW EZ1 2.00 Pin JT1720 (M1) X 3" Rotolock Box
4390	2-3/8" Reg API Box X 3" Rotolock Box
4394	DW EZ2 1.63 Box JT920 (L) X 3" Rotolock Box
4395	DW EZ2 2.00 Box JT1720 (M1) X 3" Rotolock Box
4409	2" RAMON Pin X 3" Rotolock Box
4410	1-5/8" Verm LP Pin X 3" Rotolock Box
4412	1.66 FST Box X 3" Rotolock Box
4418	DW EZ2 1.88 Box JT1220M1 X 3" Rotolock Box
4436	QF400 Pin X 3" Rotolock Box
9023	3" Rotolock Box x Blank - 24" OAL



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Housing Savers

Housing Savers for 3-5/8" Housings

Part # Description

4309	2-1/2" RAMON Pin X 3.5" Rotolock Box
4314	2.52" FluidMiser Pin X 3.5" Rotolock Box
4351	2-3/8" Mayhew Jr Box X 3.5" Rotolock Box
4352	2-3/8" FST Box X 3.5" Rotolock Box
4357	2.06" FluidMiser Box X 3.5" Rotolock Box
4358	2-1/8" Verm LP Pin X 3.5" Rotolock Box
4359	2.52" FluidMiser Box X 3.5" Rotolock Box
4373	2.06" FluidMiser Pin X 3.5" Rotolock Box
4391	2-3/8" Reg API Box X 3.5" Rotolock Box
4393	Special-Verm Part/SPLCK X 3.5" Rotolock Box
4396	DW EZ2 2.00 Box JT2720 X 3.5" Rotolock Box
4397	DW EZ2 2.25 Box JT2720M1 X 3.5" Rotolock Box
4398	DW EZ2 2.63 Box JT4020(M1) 3.5" SH
4399	DW EZ1 2.00 Pin JT2720 X 3.5" Rotolock Box
4421	2-3/8" Astec Box X 3.5" Rotolock Box
4427	DW EZ3 2.25 Box JT25, JT2720M1, JT30 X 3.5" Rotolock Box

Part # Description

4374	2-7/8" Firstck Box X 3.5" Rotolock Box
4375	3-1/2" Firstck Box X 3.5" Rotolock Box
4376	3.27" Fld Misr Box X 3.5" Rotolock Box
4377	2-7/8" IF Box X 3.5" Rotolock Box
4378	2" UNJ Pin X 3.5" Rotolock Box
4379	2.59 Fluid Miser Box X 3.5" Rotolock Box
4388	2.59 Fluid Miser Pin X 3.5" Rotolock Box
4389	2-1/2" BSW Pin X 3.5" Rotolock Box
4429	2-3/8" FS2-HIWS2 Box X 3.5" Rotolock Box
4431	2-5/8" FS1-700-15' Box X 3.5" Rotolock Box
4433	2.11 FluidMiser Pin X 3.5" Rotolock Box
4435	QF400 Pin X 3.5" Rotolock Box
4438	QF460 Pin X 3.5" Rotolock Box
4452	2-3/8" FS box long X 3.5" Rotolock Box
9024	3-1/2" Rotolock Box x Blank-28" OAL



Housing Savers for 4-1/8" Housings

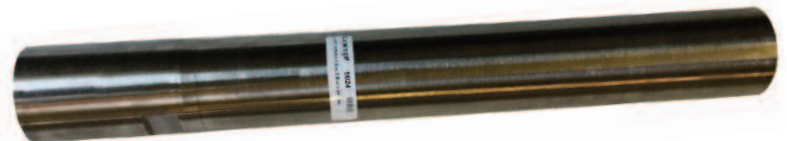
Part # Description

4306	2-1/2" RAMON Pin X 4.125" Rotolock Box
4307	3-1/2" FST Box X 4.125" Rotolock Box
4310	2-7/8" FST Box X 4.125" Rotolock Box
4311	2-7/8" IF Box X 4.125" Rotolock Box
4363	3.27" FluidMiser Box X 4.125" Rotolock Box
4411	2-3/8" IF Box X 4.125" Rotolock Box
4426	3.5 FS 1-1000 X 4.125" Rotolock Box
4430	DW EZ2 2.63 Box X 4.125" Rotolock Box
4434	3-1/2" FS2-HIWS2 X 4.125" Rotolock Box

Housing Savers for 5" Housings

Part # Description

4380	2-7/8" FST Box X 5" Rotolock Box
4381	3-1/2" FST Box X 5" Rotolock Box
4383	2-7/8" IF Box X 5" Rotolock Box
4384	3-1/2" IF Box X 5" Rotolock Box
4385	2-7/8" Reg API Box X 5" Rotolock Box
4386	3-1/2" Reg API Box X 5" Rotolock Box
4387	3.27 Fluid Miser Box X 5" Rotolock Box
4419	2-7/8" IF DBLSHLDR Box X 5" Rotolock Box
4428	Verm 3.5 FS I-1000 X 5" Rotolock Box
4432	3-1/2" FS2-HIWS2 Box X 5" Rotolock Box



24" and 28" long housing savers are available by special order to facilitate a direct connect housing to the drill rod on 3-1/8" and 3-5/8" Railhead housings. Specify the connection to be built into the long housing saver.

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	Part #	Description
Incredibit		
	1503	2-3/4" Standard Incredibit
Incredibit Sonde Housing		
	1800	2-3/4" Incredibit Sonde Housing (2-3/4" Rotolock) * Requires Housing Saver * Requires Sonde Block Set (DD1215 may run optional 3" tooling - See DD 2024 information)
RAM Sonde Housings		
	3100	2-3/4" Vermeer 7-Hole Bolt Pattern (2-3/4" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
	3200	2-3/4" Ditch Witch 5-Hole Bolt Pattern (2-3/4" Rotolock) *3200 Sonde Housing is Subsite specific (No Sonde blocks needed) * Requires Housing Saver * Requires Water Nozzle
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Housing Saver		
	4304	1.66 Firestick Box (DD1 Direct Connect) (2-3/4" Rotolock)
	4409	2" RAMON Pin Housing saver (Railhead Quick Connect)
	4422	1.66 Astec Box Housing saver (DD1215 Direct Connect)
Lead Rod		
	1266	1.66 Astec Box to 2" RAMON Box
Replacement Teeth, Bolts & O-Rings		
	5013	Hard Condition, Dual Conical Tip (1503) (Bucket 100)
	5208	O-Ring, Water Port (1503) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1503) (Bag 50)
	5316	Bolts, Socket Cap Bolt (3100) (Bag 50)
	5317	Bolts, Socket Cap Bolt (3200) (Bag 50)
Sonde Blocks		
	4716	Digitrak
	4721	Radiodetection
	4726	McLaughlin



Incredibit Housing and Bit

	Part #	Description
Incredibit	1526	3" Standard Incredibit
	1528	3" Aggressive Incredibit
Incredibit Sonde Housing	1830	3" Incredibit Sonde Housing (3" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
DirectBore Bit	8130	4" DirectBore I - 2" API Pin
DirectBore Housing	8430	3-1/8"SH 3" Rotolock -2" IF Box
Endurance & RAM Sonde Housings	2830	3" Railhead 6-Hole Bolt Pattern (3" Rotolock)
	3120	3" Vermeer 7-Hole Bolt Pattern (3" Rotolock)
	3230	3" Ditch Witch 6-Hole Bolt Pattern (3" Rotolock)
		* Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Housing Saver	4409	2" RAMON Housing Saver
Lead Rod	1267	2.0 Astec box to 2" RAMON Box
Water Nozzles	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Replacement Teeth, Bolts & O-Rings	5019	Hard Condition, Dual Conical Tip (1526/1528/8130) (Bucket 100)
	5021	General Condition, Conical Tip (1526/1528/8130) (Bucket 100)
	5031	Cobble/Extreme Condition, Ball Tip (1526/1528/8130) (Bucket 100)
	5208	O-Ring, Water Port (1526/1528) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1526/1528) (Bag 50)
	5316	Bolts, Socket Cap Bolt (3100) (Bag 50)
	5317	Bolts, Socket Cap Bolt (3230) (Bag 50)
Sonde Blocks	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2
Endurance Bit to Sonde Housing Key	2201	Key for 2210 & 2220 Series Endurance Bits * Recommended for use with Paddle Bits.

Part # Description

Incredibit

1554	3-1/2" Standard Incredibit
1555	3-3/4" Aggressive Incredibit

Incredibit Sonde Housing

1860	3-1/2" Incredibit Sonde Housing (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
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DirectBore Bit

8145	4-1/2" Standard DirectBore I - 2-3/8" API Pin
8148	4-3/4" Aggressive DirectBore I - 2-3/8" API Pin

DirectBore Housing

8460	3-5/8" SH 3-1/2" Rotolock 2-3/8" API Box
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Endurance & RAM Sonde Housings

2860	3-1/2" Railhead 6-Hole Bolt Pattern (3-1/2" Rotolock)
3160	3-1/2" Vermeer 7-Hole Bolt Pattern (3-1/2" Rotolock)
3260	3-1/2" Ditch Witch 6-Hole Bolt Pattern (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle

Housing Saver

4309	2-1/2" RAMON Pin - 3" Hex (Railhead Quick Connect) (3-1/2" Rotolock)
4351	2-3/8" Mayhew Jr Box (Direct Connect) (3-1/2" Rotolock)
4421	2-3/8" Astec Box (DD3238 Direct Connect) (3-1/2" Rotolock)

Railhead Quick Connect

1206	Lead Rod, 2-3/8" Mayhew Jr Box to 2-1/2" RAMON Box (DD3/DD4)
1270	Lead Rod, 2-3/8" Astec Box to 2-1/2" RAMON Box (DD 3238)
1410	Tool Adapter, 2-1/2" RAMON Pin to 2-3/8" Mayhew Jr Pin
1108	HC 4.25" OD x .625" wall x 3" hex
1113	3" ID Carbide Rubble/Hard Surface Hex Collar



16" Reamer

Part # Description

Water Nozzles

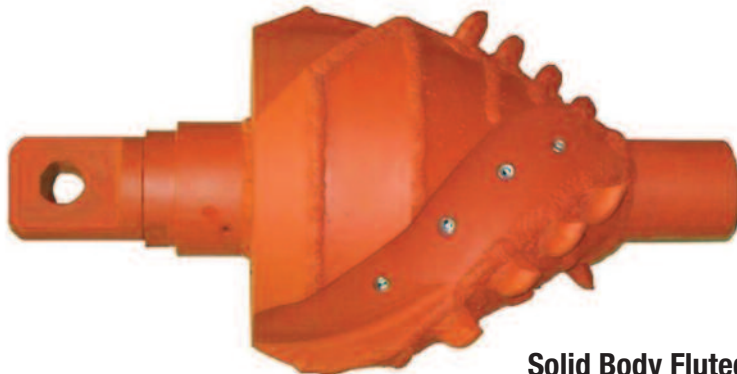
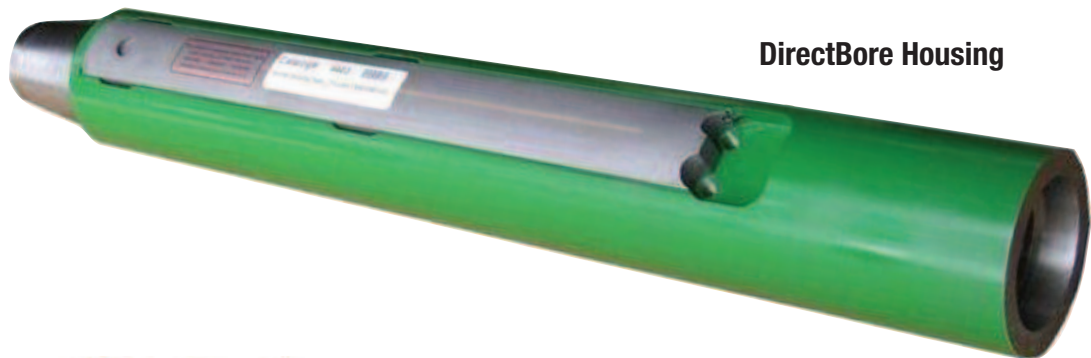
2157	2 - Hole Nozzle .069 Orifice
2158	1 - Hole Nozzle .250 Orifice

**Replacement Rock Points,
Bolts and O-Rings**

5026	Hard Condition, Dual Conical Tip (1554/1555/8145/8148) (Bucket 50)
5022	General Condition, Conical Tip (1554/1555/8145/8148) (Bucket 100)
5030	Cobble/Extreme Condition, Ball Tip (1554/1555/8145/8148) (Bucket 50)
5209	O-Ring, Water Port (1554/1555) (Bag 50)
5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
5314	Bolts, Socket Cap Bolt (Hex Collar) (Bag 50)
5316	Bolts, Socket Cap Bolt (1554/1555) (Bag 50)
5318	Bolts, Socket Cap Bolt (3260) (Bag 50)

Sonde Blocks

4704	Subsite 86 (B or BH)
4735	Digitrak
4736	Radiodetection
4737	McLaughlin
4749	Subsite 86 BV2



American Augers • DD6/DD8

Part # Description

Incredibit

1562	4-1/8" Standard Incredibit
1565	4-1/8" Aggressive Incredibit
1581	5" Standard Incredibit

Incredibit Sonde Housing

1850	4-1/8" Incredibit Sonde Housing (4-1/8" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
1880	5" Incredibit Sonde Housing (5" Rotolock) * Requires Housing Saver * Requires Sonde Block Set

DirectBore Bit

8150	5" DirectBore 1 2-7/8" API Box
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DirectBore Housing

8450	4" SH 4-1/8" Rotolock 2-7/8" API Box
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Housing Saver

4-1/8"	4311	2-7/8" IF Box (Direct Connect) (4-1/8" Rotolock)
5"	4383	2-7/8" IF Box (Direct Connect) (5" Rotolock)

Replacement Rock Points, Bolts and O-Rings

5020	General Condition, Conical Tip (1562) (Bucket 25)
5023	Hard Condition, Dual Conical Tip (1562) (Bucket 25)
5024	General Condition, Conical Tip (1565) (Bucket 25)
5029	Hard Condition, Dual Conical Tip (1565) (Bucket 25)
5032	General Condition Conical Tip (1581) (Bucket 12)
5209	O-Ring, Water Port O-Ring (1562/1565) (Bag 50)
5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
5342	Bolts, Socket Cap Bolt (1562/1565) (Bag 50)
5213	O-Ring, Water Port (1581) (Bag 50)
5344	Bolts, Socket Cap Bolt (1581) (Bag 50)

Sonde Blocks

4704	Subsite 86 (B or BH)
4749	Subsite 86 BV2
4735	Digitrak
4736	Radiodetection
4737	McLaughlin

American Augers • DD10/DD140

	Part #	Description
Incredibit	1581	5" Standard Incredibit
Incredibit Sonde Housing	1880	5" Incredibit Sonde Housing (5" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
Housing Saver	4384	3-1/2" IF Box (Direct Connect) (5" Rotolock)
Replacement Rock Points, Bolts and O-Rings	5032	General Condition Conical Tip (1581) (Bucket 12)
	5213	O-Ring, Water Port (1581) (Bag 50)
	5344	Bolts, Socket Cap Bolt (1581) (Bag 50)
Sonde Blocks	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2

Being an HDD contractor for the last 14 years in New England, ground conditions has its challenges. The geological conditions change frequently, many times in the same bore path alignment. The Incredibit, with its ability to drill in various tough ground conditions is one of the tools that have made us successful in the industry. With its ability to withstand the abrasive conditions, Railhead aids in keeping the cost down to our customers. From our small rig to our large rigs, Railhead has got us through some tough bores.

— Tod Cote, Vice President, ECI Directional Drilling, South Burlington VT 05407

	Part #	Description
Incredibit		
	1526	3" Standard Incredibit
	1528	3" Aggressive Incredibit
Incredibit Sonde Housing		
	1830	3" Incredibit Sonde Housing (3" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
DirectBore Bit		
	8130	4" DirectBore I - 2" IF Pin
DirectBore Housing		
	8430	3-1/8"SH 3" Rotolock -2" IF Box
Endurance & RAM Sonde Housings		
	2830	3" Railhead 6-Hole Bolt Pattern (3" Rotolock)
	3120	3" Vermeer 7-Hole Bolt Pattern (3" Rotolock)
	3230	3" Ditch Witch 6-Hole Bolt Pattern (3" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Housing Saver		
	4356	2" UNJ Pin - 2-1/2" Hex (Railhead Connection) (3" Rotolock)
	4409	HS 2" RAMON Pin - 3" Rotolock
Railhead Connection		
	1107	2-1/2" ID Standard Hex Collar
	1250	Lead Rod, 2-1/16" Case Box to 2" UNJ/UNC Box
	1254	1LR 2"RAMON Box 2-1/16" Case BM Box
Replacement Rock Points, Bolts & O-Rings		
	5019	Hard Condition, Dual Conical Tip (1526/1528/8130) (Bucket 100)
	5021	General Condition, Conical Tip (1526/1528/8130) (Bucket 100)
	5031	Cobble/Extreme Condition, Ball Tip (1526/1528/8130) (Bucket 100)
	5208	O-Ring, Water Port (1526/1528) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1526/1528) (Bag 50)
	5314	Bolts, Socket Cap Bolt (Hex Collar) (Bag 50)
	5316	Bolts, Socket Cap Bolt (3120) (Bag 50)
	5317	Bolts, Socket Cap Bolt (3230) (Bag 50)
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Sonde Blocks		
	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2

	Part #	Description
Incredibit		
	1554	3-1/2" Standard Incredibit
	1555	3-1/2" Aggressive Incredibit
Incredibit Sonde Housing		
	1860	3-1/2" Incredibit Sonde Housing (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
DirectBore Bit		
	8145	4-1/2" Standard DirectBore I - 2-3/8" API Pin
	8148	4-3/4" Aggressive DirectBore I - 2-3/8" API Pin
DirectBore Housing		
	8460	3-5/8" SH3-1/2" Rotolock 2-3/8" API Box
Endurance & RAM Sonde Housings		
	2860	3-1/2" Railhead 6-Hole Bolt Pattern (3-1/2" Rotolock)
	3160	3-1/2" Vermeer 7-Hole Bolt Pattern (3-1/2" Rotolock)
	3260	3-1/2" Ditch Witch 6-Hole Bolt Pattern (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Railhead Quick Connect		
	1237	Lead Rod, 2-3/8" Case Box to 2-1/2" RAMON Box
	1414	Tool Adapter, 2-1/2" RAMON Pin to 2" UNJ Box
	1108	HC 4.25" OD x .625" wall x 3" hex
	1113	3" ID Carbide Rubble/Hard Surface Hex Collar
Housing Saver		
	4309	2-1/2" RAMON Pin - 3" Hex (Railhead Quick Connect) (3-1/2" Rotolock)
	4389	2-1/2" Case BSW Pin (Manufacturer's Easy Connect) (3-1/2" Rotolock)
Replacement Teeth, Bolts & O-Rings		
	5026	Hard Condition, Dual Conical Tip (1554/1555/8145/8148) (Bucket 100)
	5022	General Condition, Conical Tip (1554/1555/8145/8148) (Bucket 100)
	5030	Cobble/Extreme Condition, Ball Tip (1554/1555/8145/8148) (Bucket 100)
	5209	O-Ring, Water Port (1554/1555) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5316	Bolts, Socket Cap Bolt (1554/1555) (Bag 50)
	5318	Bolts, Socket Cap Bolt (3260) (Bag 50)
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Sonde Blocks		
	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2

	Part #	Description
Incredibit	1503	2-3/4" Standard, Medium Rock & Cobble
Incredibit Sonde Housing	1800	2-3/4" Incredibit Sonde Housing (2-3/4" Rotolock)
	1810	2-3/4" Incredibit Sonde Housing (2-3/4" Rotolock) *1810 Incredibit Housing is Subsite specific (no sonde blocks needed) * Requires Housing Saver
RAM Sonde Housing	3200	2-3/4" Ditch Witch 5-Hole Bolt Pattern (2-3/4" Rotolock) Sonde Housing is Subsite specific (no sonde blocks needed) * Requires Housing Saver * Requires Water Nozzle
	3230	SH 3" DW 5 Bolt 3" Rotolock (JT1220M1) * Requires Sonde Blocks
Water Nozzles	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Endurance Bit to Incredibit Sonde Housing Key	2201	Key for 2210 & 2220 Series Endurance Bits * Recommended for use with Paddle Bits.
Housing Saver	4303	HS DW EZ2 2.00 Box JT920 2-3/4" SH
	4308	1.41" DW Fld Miser Pin (2-3/4" Rotolock) (Direct Connect)
	4364	HS 2.06" FluidMiser Box (1830/3230)
	4409	HS 2" RAMON Pin - 3" Rotolock
	4415	1.63" DW EZ II Box (2-3/4" Rotolock) * Requires Ditch Witch Transition sub #400-067
	4416	2.06" DW Fld Miser Box (2-3/4" Rotolock) * Requires Ditch Witch Transition sub #400-005
	4417	1.88" DW EZ II Box (2-3/4" Rotolock) (1220 M1) * Requires Ditch Witch Transition sub #400-917
	4418	HS DW EZ2 1.88 Box JT1220M1 3"SH
OEM Quick Connect	11317	2" HF DW EZ2 JT920,920L,921,922
	11318	2.25" Stnd DW EZ3 JT1220 M1 Collar
	11319	2.25" HF DW EZ3 JT1220 M1 Collar
	12020	Starter Rod JT920 Standard DW
	12021	Starter Rod JT1220M1 Standard DW
	11316	2" Stnd DW EZ2 JT920,920L,921,922
Railhead Quick Connect	1107	HC 3.50"ODx.50"wallx2-1/2"hex3hole
	1114	HC 3.5"OD 2.5"Hex ID w/Hard Surface
	1258	1LR 2"RAMON Box 2.06 FluidMiser Pin
Replacement Teeth, Bolts & O-Rings	5013	Hard Condition, Dual Conical Tip (1503) (Bucket 100)
	5208	O-Ring, Water Port (1503) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1503) (Bag 50)
	5316	Bolts, Socket Cap Bolt (3100) (Bag 50)
	5317	Bolts, Socket Cap Bolt (3200) (Bag 50)
Sonde Blocks	4716	Digitrak
	4704	Subsite 86 (B or BH)

	Part #	Description
Incredibit	1526	3" Standard Incredibit
	1528	3" Aggressive Incredibit
Incredibit Sonde Housing	1830	3" Incredibit Sonde Housing (3" Rotolock) * Requires Housing Saver
DirectBore Bit	8130	4" DirectBore I - 2" IF Pin
DirectBore Housing	8430	3-1/8" SH 3" Rotolock - 2" IF Box
RAM Sonde Housing	2830	3" Railhead 6-Hole Bolt Pattern (3" Rotolock)
	3230	3" Ditch Witch 5-Hole Bolt Pattern (3" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Water Nozzles	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Housing Saver	4364	2.06" DW Fld Miser Box (3" Rotolock) * Requires Ditch Witch Pin to Pin Adapter#368-264
	4395	2.0" DW EZ II Box (3" Rotolock) * Requires Ditch Witch Transition sub #369-998
	4409	HS 2" RAMON Pin - 3" Rotolock
	4418	1.88" DW EZ II Box (3" Rotolock for 1220) * Requires Ditch Witch Transition sub #400-917
OEM Quick Connect	12022	Transition Sub JT1720 Standard DW
	12023	Transition Sub JT2720 Standard DW
	12024	Transition Sub JT2020M1 Standard DW
	RH260010040	Transition Sub Fits JT2720M1 - 1/2" x 13 x 3/4" Bolt - EZ 2
Railhead Quick Connect	1107	HC 3.50"ODx.50"wallx2-1/2"hex3hole
	1114	HC 3.5"OD 2.5"Hex ID w/Hard Surface
	1258	1LR 2"RAMON Box 2.06 FluidMiser Pin
Replacement Teeth, Bolts & O-Rings	5019	Hard Condition, Dual Conical Tip (1526/1528/8130) (Bucket 100)
	5021	General Condition, Conical Tip (1526/1528/8130) (Bucket 100)
	5031	Cobble/Extreme Condition, Ball Tip (1526/1528/8130) (Bucket 100)
	5208	O-Ring, Water Port (1526/1528) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1526/1528) (Bag 50)
	5316	Bolts, Socket Cap Bolt (3120) (Bag 50)
	5317	Bolts, Socket Cap Bolt (3230) (Bag 50)
Sonde Blocks	4704	Subsite 86 (B or BH)
	4749	Subsite 86 BV2
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin

	Part #	Description	
Incredibit	1554	3-1/2" Standard Incredibit	
	1555	3-1/2" Aggressive Incredibit	
Incredibit Sonde Housing	1860	3-1/2" Incredibit Sonde Housing (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle	
DirectBore Bit	8145	4-1/2" Standard DirectBore I - 2-3/8" API Pin	
	8148	4-3/4" Aggressive DirectBore I - 2-3/8" API Pin	
DirectBore Housing	8460	3-5/8" SH 3-1/2" Rotolock 2-3/8" API Box	
Endurance Sonde Housing	2860	3-1/2" Railhead 6-Hole Bolt Pattern (3-1/2" Rotolock)	
	3260	3-1/2" Ditch Witch 6-Hole Bolt Pattern (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle	
Railhead Quick Connect	JT	1233	Lead Rod, 2.06 Fluid Miser Pin to 2-1/2" RAMON Box
	AT Dirt Pipe	1240	Lead Rod, 2.52 Fluid Miser Pin to 2-1/2" RAMON Box
		1263	2LR 2.5 RAMON Box DW 2.11 Mach1 Pin
		1265	2LR 2.5" RAMON Box DW 2.11 Mach1 Pin (Direct To Lead Pipe)
	JT	1409	Tool Adapter, 2-1/2" RAMON Pin to 2.06 Fluid Miser Pin
	M1 & AT	1443	Tool Adapter, 2-1/2" RAMON Pin to 2.59 Fluid Miser Pin
		1108	HC 4.25" OD x. 625" wall x 3" hex
		1113	Hex Collar, 4" OD 5/8" with Carbide Rubble/Hard Surface
		3003	Pulling Eye, 2-1/2" RAMON Pin
Housing Saver		4309	2-1/2" RAMON Pin - 3" Hex (Railhead Quick Connect) (3-1/2" Rotolock) * On AT use Lead Rod #1240, goes direct to lead pipe
	JT	4357	2.06" Fluid Miser Box (JT2720 Direct Connect) (3-1/2" Rotolock) * Will need Ditch Witch Pin to Pin Adapter # 368-261
	JT	4396	2.00 EZ 2 Box (JT2720 Mfg Easy Connect) (3-1/2" Rotolock) * Will need Ditch Witch Transition Sub #400-134
	M1	4397	2.25 EZ 2 Box (JT2720 M1 Mfg Easy Connect) (3-1/2" Rotolock) * Will need Ditch Witch Transition Sub #369-812
	M1/AT	4379	2.59" Fluid Miser Box (JT2720 M1 / AT Direct Connect) (3-1/2" Rotolock) * M1 will need Ditch Witch Transition Sub #400-231 * AT will need Ditch Witch Transition Sub #369-410 or #400-057
	AT	4314	2.52" Fluid Miser Pin (JT2720AT Dirt Pipe Direct Connect) (3-1/2" Rotolock) * Does not use transition sub, goes direct to lead pipe
	JT	4373	2.06" Fluid Miser Pin (2720 Direct Connect) (3-1/2" Rotolock)
	M1	4427	2.25" EZ3 Box (JT 3020M1 Mfg Easy Connect)
		4433	HS 2.11 FluidMiser Pin 3-1/2" Housing
	OEM Quick Connect		12023
		12024	Starter Rod JT2020M1 Standard DW
		12025	Starter Rod JT3020 Mach I DW
		11320	2.5" Stnd DWEZ2 JT1720M,2020M,JT2720
		11321	2.5" Stnd DWEZ2 JT1720M,2020M,JT2720
		11322	2.75" Stnd DW EZ2 JT2720 M1 Colla11323
		11324	2.75" Stnd DWEZ3 27&30AT,3020 M1 EZ2
		11325	2.75" HF DWEZ3 27&30AT,3020 M1 EZ2
		11326	3" Stnd DW EZ2 4020M1,2720AT,3020AT
		11327	3" HF DW EZ2 4020M1,2720AT,3020AT

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Part # Description

**Replacement Teeth,
Bolts & O-Rings**

5026	Hard Condition, Dual Conical Tip (1554/1555/8145/8148) (Bucket 100)
5022	General Condition, Conical Tip (1554/1555/8145/8148) (Bucket 100)
5030	Cobble/Extreme Condition, Ball Tip (1554/1555/8145/8148) (Bucket 100)
5209	O-Ring, Water Port (1554/1555) (Bag 50)
5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
5316	Bolts, Socket Cap Bolt (1554/1555) (Bag 50)
5318	Bolts, Socket Cap Bolt (3260) (Bag 50)

Sonde Blocks

4704	Subsite 86 (B or BH)
4749	Subsite 86 BV2
4735	Digitrak
4736	Radiodetection
4737	McLaughlin

Water Nozzles

2157	2 Holes, .069 Orifice
2158	1 Hole, .250 Orifice

**Endurance Bit to Incredibit
Sonde Housing Key**

2202	Key for 2230 & 2240 Series Endurance Bits * Recommended for use with Paddle Bits.
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“Since 1996 Enterprise Trenchless Technologies Inc. has incorporated Railhead products in our directional drill fleet for the harsh conditions we face in the Northeast regions. We’ve had exceptional success drilling some of the most difficult conditions found on the globe with heavy cobble, boulders and in some instances short segments of granite ledge. The Railhead product has stood the test in these conditions and held up better than any other product we’ve used in the market today. E.T.T.I. utilizes Railhead bits and tooling on machines as small as 16,000 lbs. up to our 80,000 lb. unit which we use exclusively Railhead 4” and 5” sonde housings. Currently we are ready to test the down hole (EXTReam) reamer line of Railhead product for equally challenging ground conditions and expect the same reliability and success. I would confidently recommend the full line of Railhead products that we’ve had success with for over 16 years to any company looking to partner with an industry leader and competent support.”

—Scott W Kelly, President, Enterprise Trenchless Technologies Inc.

	Part #	Description	
Incredibit	1554	3-1/2" Standard Incredibit	
	1555	3-1/2" Aggressive Incredibit	
	1562	4-1/8" Standard Incredibit	
	1565	4-1/8" Aggressive Incredibit	
Incredibit Sonde Housing	1860	3-1/2" Incredibit Sonde Housing (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set	
	1850	4-1/8" Incredibit Sonde Housing (4-1/8" Rotolock) * Requires Housing Saver * Requires Sonde Block Set	
DirectBore Bit	8150	5" DirectBore 1-2 7/8" API Pin	
	8145	4-1/2" Standard DirectBore I - 2-3/8" API Pin	
	8148	4-3/4" Aggressive DirectBore I - 2-3/8" API Pin	
DirectBore Housing	8450	4" SH 4-1/8" Rotolock 2-7/8" API Box	
	8460	3-5/8" SH 3-1/2" Rotolock 2-3/8" API Box	
Endurance Sonde Housing	2860	3-1/2" Railhead 6-Hole Bolt Pattern (3-1/2" Rotolock)	
	3260	3-1/2" Ditch Witch 6-Hole Bolt Pattern (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle	
Railhead Quick Connect	JT	1240	Lead Rod, 2.52 Fluid Miser Pin to 2-1/2" RAMON Box Old
	JT	1437	Tool Adapter, 2-1/2" RAMON Pin to 2.52 Fluid Miser Pin
	JT/M1	1443	Tool Adapter, 2-1/2" RAMON Pin to 2.59 Fluid Miser Pin
		1108	HC 4.25" OD x. 625" wall x 3" hex
		1113	Hex Collar, 4" OD 5/8" with Carbide Rubble/Hard Surface
		3003	Pulling Eye, 2-1/2" RAMON Pin
Housing Saver	3-1/2" JT	4309	2-1/2" RAMON Pin - 3" Hex (Railhead Quick Connect) (4-1/8" Rotolock)
	JT	4314	2.52 Fluid Miser Pin (Direct Connect) (3-1/2" Rotolock)
	JT	4359	2.52 Fluid Miser Box (Direct Connect) (3-1/2" Rotolock) * Will need Ditch Witch Pin to Pin Adapter # 369-001
	JT/M1	4398	2.63 EZ 2 Box (Mfg Easy Connect) (3-1/2" Rotolock) * Will need Ditch Witch Transition Sub #400-09
	JT/M1	4379	2.59 Fluid Miser Box (Direct Connect) (3-1/2" Rotolock) *JT will need Ditch Witch Transition Sub #400-700 *M1 will need Ditch Witch Transition Sub #400-575
	4-1/8" JT	4306	2-1/2" RAMON Pin - 3" Hex (Railhead Quick Connect) (4-1/8" Rotolock)
		4363	3.27 Fluid Miser Box (Direct Connect) (4-1/8" Rotolock) * Will need Ditch Witch Pin to Box Adapter # 400-576
Housing Saver		11326	3" Stnd DW EZ2 4020M1,2720AT,3020AT
		11327	3" HF DW EZ2 4020M1,2720AT,3020AT
		12026	Transition Rod JT4020M1 Standard DW

Part # Description**Replacement Teeth,
Bolts & O-Rings**

5026	Hard Condition, Dual Conical Tip (1554/1555) (Bucket 50)
5022	General Condition, Conical Tip (1554/1555) (Bucket 50)
5030	Cobble/Extreme Condition, Ball Tip (1554/1555) (Bucket 50)
5020	General Condition, Conical Tip (1562) (Bucket 25)
5023	Hard Condition, Dual Conical Tip (1562) (Bucket 25)
5024	General Condition, Conical Tip (1565) (Bucket 25)
5029	Hard Condition, Dual Conical Tip (1565) (Bucket 25)
5209	O-Ring, Water Port (1554/1555) (Bag 50)
5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
5316	Bolts, Socket Cap Bolt (1554/1555) (Bag 50)
5318	Bolts, Socket Cap Bolt (3260) (Bag 50)
5209	O-Ring, Water Port O-Ring (1562/1565) (Bag 50)
5342	Bolts, Socket Cap Bolt for (1562/1565) (Bag 50)

Sonde Blocks

4704	Subsite 86 (B or BH)
4749	Subsite 86 BV2
4735	Digitrak
4736	Radiodetection
4737	McLaughlin

**Endurance Bit to
Incredibit Sonde
Housing Key**

2202	Key for 2230 & 2240 Series Endurance Bits * Recommended for use with Paddle Bits.
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Water Nozzles

2157	2 Holes, .069 Orifice
2158	1 Hole, .250 Orifice * Required for use with Paddle Bits.

Part # Description

Incredibit

1562	4-1/8" Standard Incredibit
1565	4-1/8" Aggressive Incredibit
1581	5" Standard Incredibit

Incredibit Sonde Housing

1850	4-1/8" Incredibit Sonde Housing (4-1/8" Rotolock)
1880	5" Incredibit Sonde Housing (5" Rotolock) * Requires Housing Saver * Requires Sonde Block Set

DirectBore Bit

8150	5" DirectBore 1-2 7/8" API Pin
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DirectBore Housing

8450	4" SH 4-1/8" Rotolock 2-7/8" API Box
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Housing Saver

4363	3.27 Fluid Miser Box (Direct Connect) (4-1/8" Rotolock) * Will need Ditch Witch Pin to Pin Adapter # 368-742 - OR - * Will need Ditch Witch Transition Sub # 369-222 - OR - * Will need Ditch Witch EZ 2 Connect Adapter # 368-813
4387	3.27" Fluid Miser Box (Direct Connect) (5" Rotolock) * Will need Ditch Witch Pin to Pin Adapter # 368-742 - OR - * Will need Ditch Witch Transition Sub # 369-222 - OR - * Will need Ditch Witch EZ 2 Connect Adapter # 368-813

Replacement Teeth, Bolts & O-Rings

5020	RP for 4-1/8" Std Rock Bit-General (1562/8150) (Bucket 25)
5023	RP for 4-1/8" Std Rock Bit-Hard (1562/8150) (Bucket 25)
5024	General Condition, Conical Tip (1565) (Bucket 25)
5029	Hard Condition, Dual Conical Tip (1565) (Bucket 25)
5032	General Condition Conical Tip (1581) (Bucket 12)
5209	O-Ring, Water Port O-Ring (1562/1565) (Bag 50)
5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
5213	O-Ring, Water Port O-Ring (1581) (Bag 50)
5342	Bolts, Socket Cap Bolt (1562/1565) (Bag 50)
5344	Bolts, Socket Cap Bolt (1580) (Bag 50)

Part # Description

Sonde Blocks

4704	Subsite 86 (B or BH)
4749	Subsite 86 BV2
4735	Digitrak
4736	Radiodetection
4737	McLaughlin

Water Nozzles

2160	1 Hole, .250 Orifice
	* Required for use with Paddle Bits.

Endurance Bit to Incredibit Sonde Housing Key

2203	Key for 2250 & 2260 Series Endurance Bits
	* Recommended for use with Paddle Bits.



16" EXTReam Reamer

“Harrow Directional Drilling uses Railhead EXTReam Reamer to cut solid rock”. Steve Harrow, Harrow Directional Drilling used an air hammer on his Case 6030 to complete a pilot bore across a road for a sewer connection. Normally Steve would use a hole opener with TRI cone roller cone bits or his hammer to increase the size of the hole. Steve said that a hole opener would take about one hour to cut ten feet at the best. The EXTReam reamer cut ten feet in less than ten minutes. He was also impressed with the condition of the hole when the ream was finished. “I was so impressed with the performance of the reamer that I intend to purchase a 10” EXTReam and 16” EXTReam reamer in the near future.”

—Steve Harrow, Harrow Directional Drilling,
Kingston, ON

	Part #	Description
Incredibit		
	1526	3" Standard Incredibit
	1528	3" Aggressive Incredibit
Incredibit Sonde Housing		
	1830	3" Incredibit Sonde Housing (3" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
DirectBore Bit		
	8130	4" DirectBore I - 2" API Pin
DirectBore Housing		
	8430	3-1/8"SH 3" Rotolock - 2" IF Box
Endurance & RAM Sonde Housings		
	2830	3" Railhead 6-Hole Bolt Pattern (3" Rotolock)
	3120	3" Vermeer 7-Hole Bolt Pattern (3" Rotolock)
	3230	3" Ditch Witch 6-Hole Bolt Pattern (3" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Railhead Quick Connect		
	1253	1LR 2" RAMON Box 2.06 Firestick Box
	1107	HC 3-1/2" OD x.50" wall x 2-1/2" hex 3 hole
	1114	HC 3-1/2" OD 2 1/2" Hex ID w/Hard Surface
Housing Saver		
	4409	2" RAMON Housing Saver
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Replacement Teeth, Bolts & O-Rings		
	5019	Hard Condition, Dual Conical Tip (1526/1528/8130) (Bucket 100)
	5021	General Condition, Conical Tip (1526/1528/8130) (Bucket 100)
	5031	Cobble/Extreme Condition, Ball Tip (1526/1528/8130) (Bucket 100)
	5208	O-Ring, Water Port(1526/1528) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1526/1528) (Bag 50)
	5316	Bolts, Socket Cap Bolt (3100) (Bag 50)
	5317	Bolts, Socket Cap Bolt (3230) (Bag 50)
Sonde Blocks		
	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2
Endurance Bit to Incredibit Sonde Housing Key		
	2201	Key for 2210 & 2220 Series Endurance Bits * Recommended for use with Paddle Bits.

	Part #	Description
Incredibit		
	1554	3-1/2" Rock Bit - Standard
	1555	3-3/4" Rock Bit - Aggressive
Incredibit Sonde Housing		
	1860	3-1/2" SH 3-1/2" Rotolock * Requires Housing Saver * Requires Sonde Block Set
DirectBore Bit		
	8145	4 1/2" Standard DirectBore I - 2-3/8"API Pin
	8148	4-3/4" Aggressive DirectBore I - 2-3/8"API Pin
DirectBore Housing		
	8460	3-5/8" SH 3-1/2" Rotolock 2-3/8" API Box
Endurance & RAM Sonde Housings		
	2860	3-1/2" Railhead 6-Hole Bolt Pattern (3-1/2" Rotolock)
	3160	3-1/2" Vermeer 7-Hole Bolt Pattern (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Housing Saver		
	4309	HS 2-1/2" RAMON Pin (1860/2860)
Railhead Quick Connect		
	1259	1LR 2.5" RAMON Box 2-3/8" FSII Box
	1108	HC 4.25" OD x .625" wall x 3" hex
	1113	Hex Collar, 4" OD 5/8" with Carbide Rubble/Hard Surface
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Replacement Teeth, Bolts & O-Rings		
	5026	Hard Condition, Dual Conical Tip (1554/1555/8145/8148) (Bucket 100)
	5022	General Condition, Conical Tip (1554/1555/8145/8148) (Bucket 100)
	5030	Cobble/Extreme Condition, Ball Tip (1554/1555/8145/8148) (Bucket 100)
	5209	O-Ring, Water Port(1554/1555) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5316	Bolts, Socket Cap Bolt (1554/1555,3160) (Bag 50)
Sonde Blocks		
	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2
Endurance Bit to Incredibit Sonde Housing Key		
	2202	Key for 2230 & 2240 Series Endurance Bits (for 1860 Housing) * Recommended for use with Paddle Bits.

	Part #	Description
Incredibit		
	1503	2-3/4" Rock Bit - Standard
Incredibit Sonde Housing		
	1800	SH 2-3/4" Rock" No Subsite 2 -3/4" Rotolock * Requires Housing Saver * Requires Sonde Block Set
Endurance & RAM Sonde Housings		
	3100	SH 2-3/4" Vermeer 7 Bolt 2-3/4" Rotolock * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Railhead Quick Connect		
	1251	1LR 2" RAMON Box 1.66 Firestick Box
	1107	HC 3-1/2" OD x.50" wall x 2-1/2" hex 3 hole
	1114	HC 3-1/2" OD 2.5" Hex ID w/Hard Surface
Housing Saver		
	4409	2" RAMON Housing Saver
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Replacement Teeth, Bolts & O-Rings		
	5013	Hard Condition, Dual Conical Tip (Bucket 100)
	5208	O-Ring, Water Port(1526/1528) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1526/1528) (Bag 50)
Sonde Blocks		
	4716	Digitrak
	4721	Radiodetection
	4726	McLaughlin
Endurance Bit to Incredibit Sonde Housing Key		
	2201	Key for 2210 & 2220 Series Endurance Bits * Recommended for use with Paddle Bits.

	Part #	Description
Incredibit		
	1526	3" Standard Incredibit
	1528	3" Aggressive Incredibit
Incredibit Sonde Housing		
	1830	3 1/8" Incredibit Sonde Housing (3" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
DirectBore Bit		
	8130	4" DirectBore I - 2" API Pin
DirectBore Housing		
	8430	3-1/8"SH 3" Rotolock -2" IF Box
Endurance & RAM Sonde Housings		
	2830	3" Railhead 6-Hole Bolt Pattern (3" Rotolock)
	3120	3" Vermeer 7-Hole Bolt Pattern (3" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Railhead Quick Connect		
	1253	1LR 2" RAMON Box 2.06 Firestick Box
	1107	HC 3.50" OD x .50" wall x 2-1/2" hex 3 hole
	1114	HC 3.5"OD 2.5" Hex ID w/Hard Surface
Housing Saver		
	4409	2" RAMON Housing Saver
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Replacement Teeth, Bolts & O-Rings		
	5019	Hard Condition, Dual Conical Tip (1526/1528/8130) (Bucket 100)
	5021	General Condition, Conical Tip (1526/1528/8130) (Bucket 100)
	5031	Cobble/Extreme Condition, Ball Tip (1526/1528/8130) (Bucket 100)
	5208	O-Ring, Water Port(1526/1528) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1526/1528) (Bag 50)
	5316	Bolts, Socket Cap Bolt (3100) (Bag 50)
Sonde Blocks		
	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2
Endurance Bit to Incredibit Sonde Housing Key		
	2201	Key for 2210 & 2220 Series Endurance Bits * Recommended for use with Paddle Bits.

	Part #	Description
Incredibit		
	1554	3-1/2" Standard Incredibit
	1555	3-1/2" Aggressive Incredibit
Incredibit Sonde Housing		
	1860	3-1/2" SH 3-1/2" Rotolock * Requires Housing Saver * Requires Sonde Block Set
DirectBore Bit		
	8145	4-1/2" Standard DirectBore I - 2-3/8" API Pin
	8148	4-3/4" Aggressive DirectBore I - 2-3/8" API Pin
DirectBore Housing		
	8460	3-5/8" SH3-1/2" Rotolock 2-3/8" API Box
Endurance & RAM Sonde Housings		
	2860	SH 3-1/2" Endurance Housing 3-1/2 Rotolock
	3160	SH 3-1/2" Vermeer 7 Bolt 3-1/2" Rotolock * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Railhead Quick Connect		
	1269	1LR 2.5" RAMON Box 2-3/8" Firestick Box
	1108	HC 4.25" OD x .625" wall x 3" hex
	1113	HC 4.25" OD 3" Hex ID w/Hard Surface
Housing Saver		
	4309	HS 2-1/2" RAMON Pin (1860/2860)
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Replacement Teeth, Bolts & O-Rings		
	5026	Hard Condition, Dual Conical Tip (1554/1555/8145/8148) (Bucket 100)
	5022	General Condition, Conical Tip (1554/1555/8145/8148) (Bucket 100)
	5030	Cobble/Extreme Condition, Ball Tip (1554/1555/8145/8148) (Bucket 100)
	5209	O-Ring, Water Port (1554/1555) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5316	Bolts, Socket Cap Bolt (3100) (Bag 50)
Sonde Blocks		
	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2
Endurance Bit to - Incredibit Sonde Housing Key		
	2202	Key for 2230 & 2240 Series Endurance Bits * Recommended for use with Paddle Bits.

	Part #	Description
Incredibit		
	1554	3-1/2" Standard Incredibit
	1555	3-1/2" Aggressive Incredibit
Incredibit Sonde Housing		
	1860	3-1/2" SH 3-1/2" Rotolock * Requires Housing Saver * Requires Sonde Block Set
DirectBore Bit		
	8145	4-1/2" Standard DirectBore I - 2-3/8" API Pin
	8148	4-3/4" Aggressive DirectBore I - 2-3/8" API Pin
DirectBore Housing		
	8460	3-5/8" SH3-1/2" Rotolock 2-3/8" API Box
Endurance & RAM Sonde Housings		
	2860	SH 3-1/2" Endurance Housing 3-1/2" Rotolock
	3160	SH 3-1/2" Vermeer 7 Bolt 3-1/2" Rotolock * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Railhead Quick Connect		
	1272	1LR 2.5" RAMON Box T1-650-10 FS1 Box
	1108	HC 4.25" OD x .625" wall x 3" hex
	1113	HC 4.25"OD 3" Hex ID w/Hard Surface
Housing Saver		
	4309	HS 2-1/2" RAMON Pin (1860/2860)
	4431	HS 2-5/8" FS1-700-15' Box 3-1/2"SH
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Replacement Teeth, Bolts & O-Rings		
	5026	Hard Condition, Dual Conical Tip (1554/1555/8145/8148) (Bucket 100)
	5022	General Condition, Conical Tip (1554/1555/8145/8148) (Bucket 100)
	5030	Cobble/Extreme Condition, Ball Tip (1554/1555/8145/8148) (Bucket 100)
	5209	O-Ring, Water Port (1554/1555) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5316	Bolts, Socket Cap Bolt (1860/2860/3160) (Bag 50)
Sonde Blocks		
	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2
Endurance Bit to Incredibit Sonde Housing Key		
	2202	Key for 2230 & 2240 Series Endurance Bits * Recommended for use with Paddle Bits.

	Part #	Description
Incredibit		
	1503	2-3/4" Standard, Medium Rock & Cobble
Incredibit Sonde Housing		
	1800	2-3/4" Incredibit Sonde Housing (2-3/4" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
RAM Sonde Housing		
	3100	2-3/4" Vermeer 7-Hole Bolt Pattern (2-3/4" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Water Nozzle		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Endurance Bit to Incredibit Sonde Housing Key		
	2201	Key for 2210 & 2240 Series Endurance Bits * Recommended for use with Paddle Bits.
Housing Saver		
	4301	1-5/8" Vermeer Low Profile Pin (2-3/4" Rotolock)
	4304	1.66" Vermeer Firestick I Box (2-3/4" Rotolock)
	4424	HS 2" RAMON Pin - 2-3/4" Rotolock
	4437	HS QF300 Pin 2-3/4" Rotolock Box
OEM Quick Connect		
	11310	2" Standard Vermeer Hex Collar
	11311	2" Hardfaced Vermeer Hex Collar
	12010	Starter Rod 7x11 - 1.66 FS1 Verm
Railhead Quick Connect		
	1251	1LR 2"RAMON Box 1.66 FST Box
	1107	HC 3.50"ODx.50"wallx2-1/2"hex3hole
	1114	HC 3.5"OD 2.5"Hex ID w/Hard Surface
Replacement Teeth, Bolts & O-Rings		
	5013	Hard Condition, Dual Conical Tip (Bucket 100)
	5208	O-Ring, Water Port O-Ring (1503) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1503) (Bag 50)
Sonde Blocks		
	4716	Digitrak
	4721	Radiodetection
	4726	McLaughlin
	4749	Subsite 86 BV2

	Part #	Description
Incredibit	1526	3" Standard Incredibit
	1528	3" Aggressive Incredibit
Incredibit Sonde Housing	1830	3 1/8" Incredibit Sonde Housing (3" Rotolock) * Requires Housing Saver
DirectBore Bit	8130	4" DirectBore I - 2" API Pin
	8430	3-1/8" SH 3" Rotolock - 2" IF Box
RAM Sonde Housing	2830	3" Railhead 6-Hole Bolt Pattern (3" Rotolock)
	3120	3" Vermeer 7-Hole Bolt Pattern (3" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Water Nozzles	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice
Endurance Bit to Incredibit Sonde Housing Key	2201	Key for 2210 & 2220 Series Endurance Bits * Recommended for use with Paddle Bits.
Housing Saver	4305	HS 2-1/8" Vermeer LP Pin (3" Rotolock)
	4354	HS 2.06" Firestick I Box (3" Rotolock)
	4355	HS 1.9" Firestick I Box (3" Rotolock)
	4409	HS 2" RAMON Pin - 3" Rotolock
	4410	HS 1-5/8" Vermeer LP Pin (3" Rotolock)
	4436	HS QF400 Pin 3" Rotolock Box
OEM Quick Connect	1116	2.5" Hardfaced Vermeer Hex Collar
	1126	2.5" Standard Vermeer Hex Collar
	12011	Starter Rod 16x20-18&20x22 1.90FS1
	12012	Starter Rod 16x20-18&20x22 2.06FS1
Railhead Quick Connect	1107	HC 3.50"ODx.50"wallx2-1/2"hex3hole
	1108	HC 4.25"ODx.625"wallx3"hex
	1113	HC 4.25"OD 3"Hex ID w/Hard Surface
	1114	HC 3.5"OD 2.5"Hex ID w/Hard Surface
	1252	1LR 2"RAMON Box 1.90 FST Box
	1253	1LR 2"RAMON Box 2.06 FST Box
Replacement Teeth, Bolts & O-Rings	5019	Hard Condition, Dual Conical Tip (1526/1528/8130) (Bucket 100)
	5021	General Condition, Conical Tip (1526/1528/8130) (Bucket 100)
	5031	Cobble/Extreme Condition, Ball Tip (1526/1528/8130) (Bucket 100)
	5208	O-Ring, Water Port (1526/1528) (Bag 50)
	5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
	5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
	5313	Bolts, Socket Cap Bolt (1526/1528) (Bag 50)
	5316	Bolts, Socket Cap Bolt (3120) (Bag 50)
5317	Bolts, Socket Cap Bolt (3230) (Bag 50)	
Sonde Blocks	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2

	Part #	Description
Incredibit		
	1554	3-1/2" Standard Incredibit
	1555	3-1/2" Aggressive Incredibit
Incredibit Sonde Housing		
	1860	3-1/2" Incredibit Sonde Housing (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
DirectBore Bit		
	8145	4-1/2" Standard DirectBore I - 2-3/8" API Pin
	8148	4-3/4" Aggressive DirectBore I - 2-3/8" API Pin
DirectBore Housing		
	8460	3-5/8" SH 3-1/2" Rotolock 2-3/8" API Box
Endurance Sonde Housing		
	2860	3-1/2" Railhead 6-Hole Bolt Pattern (3-1/2" Rotolock)
	3160	3-1/2" Vermeer 7-Hole Bolt Pattern (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
Railhead Quick Connect		
	1269	Lead Rod, 2-3/8" Firestick I Box to 2-1/2" RAMON Box
	1259	Lead Rod, Vermeer Part 33 x 44 Box to 2-1/2" RAMON Box
	1413	Tool Adapter, 2-1/2" RAMON Pin to 2-1/8" Vermeer LP Box
	1108	HC 4.25" OD x. 625" wall x 3" hex
	1113	Hex Collar, 4" OD 5/8" with Carbide Rubble/Hard Surface
	3003	Pulling Eye, 2-1/2" RAMON Pin
Housing Saver		
	4309	2-1/2" RAMON Pin - 3" Hex (Railhead Quick Connect) (3-1/2" Rotolock)
	4352	2-3/8" Firestick I Box (Direct Connect) (3-1/2" Rotolock)
	4358	2-1/8" Vermeer LP Pin - 3" Hex (Mfg Easy Connect) (3-1/2" Rotolock)
OEM Quick Connect		
	1219	Starter Rod 24x40 Standard Verm
	12014	Fits Vermeer 24x40, 40x40 - FST 1 #600 x QF #400
	1116	2.5" Hardfaced Vermeer Hex Collar
	1126	2.5" Standard Vermeer Hex Collar
Water Nozzles		
	2157	2 - Hole Nozzle .069 Orifice
	2158	1 - Hole Nozzle .250 Orifice

Part # Description

**Endurance Bit to Incredibit
Sonde Housing Key**

2202 Key for 2230 & 2240 Series Endurance Bits
* Recommended for use with Paddle Bits.

**Replacement Teeth,
Bolts & O-Rings**

5026 Hard Condition, Dual Conical Tip (1554/1555/8145/8148)
(Bucket 100)
5022 General Condition, Conical Tip (1554/1555/8145/8148)
(Bucket 100)
5030 Cobble/Extreme Condition, Ball Tip (1554/1555/8145/8148)
(Bucket 50)
5209 O-Ring, Water Port (1554/1555) (Bag 50)
5310 Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
5311 Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
5316 Bolts, Socket Cap Bolt (1554/1555) (Bag 50)
5318 Bolts, Socket Cap Bolt (3260) (Bag 50)

Sonde Blocks

4704 Subsite 86 (B or BH)
4735 Digitrak
4736 Radiodetection
4737 McLaughlin
4749 Subsite 86 BV2



DirectBore Housing



DirectBore Bit

	Part #	Description
Incredibit		
	1554	3-1/2" Standard Incredibit
	1555	3-1/2" Aggressive Incredibit
	1562	4-1/8" Standard Incredibit
	1565	4-1/8" Aggressive Incredibit
Incredibit Sonde Housing		
	1860	3-1/2" Incredibit Sonde Housing (3-1/2" Rotolock)
	1850	4-1/8" Incredibit Sonde Housing (4-1/8" Rotolock) * Requires Housing Saver * Requires Sonde Block Set
DirectBore Bit		
	8150	4" SH 4-1/8" Rotolock 2-7/8" API Box
	8145	4-1/2" Standard DirectBore I - 2-3/8" API Pin
	8148	4-3/4" Aggressive DirectBore I - 2-3/8" API Pin
DirectBore Housing		
	8450	4" SH 4-1/8" Rotolock 2-7/8" API Box
	8460	3-5/8" SH 3-1/2" Rotolock 2-3/8" API Box
Endurance Sonde Housing		
	2860	3-1/2" Railhead 6-Hole Bolt Pattern (3-1/2" Rotolock)
	3160	3-1/2" Vermeer 7-Hole Bolt Pattern (3-1/2" Rotolock) * Requires Housing Saver * Requires Sonde Block Set * Requires Water Nozzle
OEM Quick Connect		
	12018	Fits Vermeer 36x50 - FST 1 #650 x 2.125 LP
	12019	Fits Vermeer 36x50 - FST 1 #700 x 2.125 LP
Railhead Quick Connect		
	1272	Lead Rod, 2-1/2" RAMON Box to T1-650-10 FS1 Box
	1273	Lead Rod, 2-1/2" RAMON Box to T1-700-15 FS1 Box
	1259	Lead Rod, Vermeer Part 33x44 Box to 2-1/2" RAMON Box
	1413	Tool Adapter, 2-1/2" RAMON Pin to 2-1/8" Vermeer LP Box
	1108	Hex Collar, 4" OD 5/8" Wall Boring Collar
	1113	Hex Collar, 4" OD 5/8" with Carbide Rubble/Hard Surface
	3003	Pulling Eye, 2-1/2" RAMON Pin
Sonde Blocks		
	4704	Subsite 86 (B or BH)
	4735	Digitrak
	4736	Radiodetection
	4737	McLaughlin
	4749	Subsite 86 BV2
Housing Saver		
	4309	2-1/2" RAMON Pin - 3" Hex (Railhead Quick Connect) (3-1/2" Rotolock)
	4352	2-3/8" Firestick I Box (Direct Connect) (3-1/2" Rotolock)
	4358	2-1/8" Vermeer LP Pin - 3" Hex (Mfg Easy Connect) (3-1/2" Rotolock)
	4306	2-1/2" RAMON Pin - 3" Hex (Railhead Quick Connect) (4-1/8" Rotolock)
	4431	HS 2-5/8" FS1-700-15' Box 3-1/2" SH
	4438	HS QF460 Pin 3-1/2" Rotolock Box

Part # Description

Water Nozzles

2160	1 - Hole Nozzle .250 Orifice (for 1850 Housing)
2157	2 - Hole Nozzle .069 Orifice (for 1860 Housing)
2158	1 - Hole Nozzle .250 Orifice (for 1860 Housing)

* Recommended for use with Paddle Bits.

**Endurance Bit to Incredibit
Sonde Housing Key**

2203	Key for 2250 & 2260 Series Endurance Bits (for 1850 Housing)
2202	Key for 2230 & 2240 Series Endurance Bits (for 1860 Housing)

* Recommended for use with Paddle Bits.

**Replacement Rock Points,
Bolts and O-Rings**

5020	RP for 4-1/8" Std Rock Bit-General (1562/8150) (Bucket 25)
5023	RP for 4-1/8" Std Rock Bit-Hard (1562/8150) (Bucket 25)
5026	Hard Condition, Dual Conical Tip (1554/1555/8145/8148) (Bucket 50)
5022	General Condition, Conical Tip (1554/1555/8145/8148) (Bucket 50)
5030	Cobble/Extreme Condition, Ball Tip (1554/1555/8145/8148) (Bucket 50)
5020	General Condition, Conical Tip (1562) (Bucket 25)
5023	Hard Condition, Dual Conical Tip (1562) (Bucket 25)
5024	General Condition, Conical Tip (1565) (Bucket 25)
5029	Hard Condition, Dual Conical Tip (1565) (Bucket 25)
5209	O-Ring, Water Port (1554/1555) (Bag 50)
5310	Bolts, Socket Cap Bolt (Water Nozzle) (Bag 50)
5311	Bolts, Socket Cap Bolt (Housing Door) (Bag 50)
5316	Bolts, Socket Cap Bolt (1554/1555) (Bag 50)
5318	Bolts, Socket Cap Bolt (3260) (Bag 50)
5209	O-Ring, Water Port O-Ring (1562/1565) (Bag 50)
5342	Bolts, Socket Cap Bolt (1562/1565) (Bag 50)



Rock Points

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Part # Description

Incredibit

1581	5" Standard Incredibit
1562	4-1/8" Standard Incredibit
1565	4-1/8" Aggressive Incredibit

Incredibit Sonde Housing

1880	5" Incredibit Sonde Housing (5" Rotolock)
1850	4-1/8" Incredibit Sonde Housing (4-1/8" Rotolock) * Requires Housing Saver * Requires Sonde Block Set

DirectBore Bit

8150	5" DirectBore 1-2 7/8" API Pin
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DirectBore Housing

8450	4" SH 4-1/8" Rotolock 2-7/8" API Box
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Housing Saver

D50x100	4380	2-7/8" Firestick I Box (Direct Connect) (5" Rotolock)
D80 & D100	4381	3-1/2" Firestick I Box (Direct Connect) (5" Rotolock)
D80 & D100	4307	3-1/2" Firestick I Box (Direct Connect) (4-1/8" Rotolock)
D50x100	4310	2-7/8" Firestick I Box (Direct Connect) (4-1/8" Rotolock)
	4426	HS 3.5 FS 1-1000 Box 4-1/8 Rotolock Box
	4428	HS 3.5 FS I-1000 5" SH
	4432	HS 3-1/2" FS2-HIWS2 Box 5" SH
	4434	HS 3-1/2" FS2-HIWS2 Box 4-1/8" SH

Replacement Teeth, Bolts & O-Rings

5032	General Condition Conical Tip (1581) (Bucket 12)
5020	RP for 4-1/8" Std Rock Bit-General (1562/8150) (Bucket 25)
5023	RP for 4-1/8" Std Rock Bit-Hard (1562/8150) (Bucket 25)
5024	General Condition, Conical Tip (1565) (Bucket 25)
5029	Hard Condition, Dual Conical Tip (1565) (Bucket 25)
5213	O-Ring, Water Port O-Ring (1581) (Bag 50)
5344	Bolts, Socket Cap Bolt (1581) (Bag 50)
5209	O-Ring, Water Port O-Ring (1562/1565) (Bag 50)
5342	Bolts, Socket Cap Bolt (1562/1565) (Bag 50)

Sonde Blocks

4704	Subsite 86 (B or BH)
4735	Digitrak
4736	Radiodetection
4737	McLaughlin
4749	Subsite 86 BV2

Water Nozzles

2160	1 Hole Nozzle .250 Orifice (for 1850 & 1880 Housing) * Required for use with Paddle Bits.
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Endurance Bit to Incredibit Sonde Housing Key

2203	Key for 2250 & 2260 Series Endurance Bits (for 1850) * Recommended for use with Paddle Bits.
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