



*CARSON UNDERGROUND
& STAFF
THANKS YOU FOR THE
OPPORTUNITY TO HELP
YOU SUCCEED!*



www.carsonunderground.com

1-888-427-0379



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Don't forget your batteries!
DBP, DBC, Supercell



ECLIPSE SONDES			
EDF	Lavender	Dual Frequency	40-60 ft
ETP	Black	Standard Range .1% Pitch	50 ft
ES	Green	Short Range .1% Pitch	15 ft
ECP	Black	Cable Transmitter .1% Pitch	100 ft
EDDT		DucTrak™ Extended	80 ft
EDTS		DucTrak™ Transmitter	40 ft

DS		Short Range- 15 FT
DT		Standard Range- 40 FT
DX		Long Range- 70 FT
DFT		Dual Frequency- 70 FT (for use with Mark V)
D4X		DX with Extended Life- 70 FT (4 C-cells)
D4XP		D4X with 0.1% Pitch- 70 FT
DXP		DX with 0.1% Pitch- 70 FT
DCX		Cable Transmitter - 70 FT
DCP		Cable Transmitter with- 70 FT 0.1% Pitch



Mixing mud just right is crucial to a successful job!



BENTONITE DRILLING FLUIDS
Produced from high-grade Wyoming Sodium Bentonite



Produced from high grade Wyoming sodium bentonite, fast and easy mixing. It reduces solids and increases lifting power, removes cuttings, cools and lubricates bit. It also stabilizes bore holes and helps circulation. (50# Water-resistant bags)

PRODUCT	DESCRIPTION	QUANTITY
SUPER GEL-X	200 BBL HIGH YIELD FRESH WATER DRILLING FLUID	1 to 47 Bags Full Pallet (48 Bags)
HYDRAUL-EZ	SPECIAL BLENDED DRILLING FLUID FOR DIRECTIONAL DRILLING	1 to 47 Bags Full Pallet (48 Bags)
INSTA-VIS PLUS	LIQUID POLYMER FOR IMPROVED DRILLING EFFECIENCY	5 Gallon Bucket
SUPER PAC	MULTI-PURPOSE LIQUID POLYMER FOR MINIMIZING FLUID LOSS	5 Gallon Bucket
REL-PAC	GRANULAR POLYMER, FORMS A TIGHT, THIN FILTER CAKE THAT REDUCES FLUID LOSS	2LB Bags 50 LB Pail
SUSPEND IT	DRY BIOPOLYMER, FOR INCREASING SUSPENSION OF DRILL CUTTINGS	2LB Bags 25 LB Pail
DRILL TERGE	LIQUID DETERGENT & WETTING AGENT	5 Gallon Bucket

Other products available upon request!

Ask about Clay Cutter!

We exist to help you get the job done! Carson Underground, Inc. is committed to providing you with a wide selection of quality, cost-effective manufactured products. We are also a leading distributor of the many quality products and supplies you have come to know and trust. If we don't have it we will do our best to find it. Your success is our goal!

At Carson Underground, Inc. we are continuing to improve our service and products to meet your needs. Your trust and opinion are very important to us. Give us a call today and let us know how we are doing and how we can better serve you!

Hi, I'M RIP!
WANT TO MEET MORE OF MY DIRT
EATIN' BUDDIES?
GIVE CARSON UNDERGROUND, INC. A
CALL! COME ON... LET US HELP YOU GET
THE JOB DONE!



Our Warranty: Our goal at Carson Underground, Inc. is 110% satisfaction. We stand behind our manufactured products with a money back guarantee.

If you are not satisfied with the product due to manufactures defect, return it within 30 days of delivery for a full refund . We take pride in our product and workmanship. For this reason, we will work with you until you are satisfied with our product.

Custom Parts Return Policy: There will be a 15% re-stocking fee plus all incurred freight charges for returned parts which are custom made.

End of Day Shipments: All stock items if ordered by 3:30 PM (PST) will ship the same day.

* CableTec is a registered trademark CableTec of Carson City, NV
* Cetco is a trademark of Cetco of Minneapolis, MN
* Condux is a trademark of Condux International, Inc. of Mankato, MN
* Digitrak is a registered trademark of DCI, Inc. of Renton, WA
* Geological Boring is a trademark of Geological Boring, Puyallup, WA
* Ditch Witch, JetTrac and Subsite are registered trademarks of the Charles Machine Works, Perry, OK
* Vermeer and Navigator are registered trademarks of Vermeer Mfg., Co., Pella, IA
* American Augers is a registered trademark of American Augers Inc., West Salem, OH
* Straightline is a registered trademark of Straightline Mfg., Newton, KS
* Wyo-Ben is a registered trademark of Wyo-Ben of Billings, MT



WHO'S WHO

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These numbers are available to you 24 hrs a day.
Messages will be returned as soon as possible.

Office Hours: 7:30 am - 5:00 pm (Pacific Standard Time)

Visit Us: CarsonUnderground.com

5230 HWY 50 E., Carson City, NV 89701-1491

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PIPE ROLLER STANDS



PRS002 - Handles 4" - 24" pipe!

Looking for the right pipe roller stands to fit your job? Carson Underground manufactures a variety of heavy duty to light duty pipe stands. We manufacture a stackable stand for easier transporting to and from the job.



PRS001 - Handles 4" - 14" pipe!

38



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POLY PIPE PRODUCTS



Do you need Poly Rope?



When you are ready to purchase poly pipe, we can get you the size and color you need!



Typical Application



Give us a call when Certa-Lok® is important to your job!



Poly-Cam Pullers
A variety of sizes from 2" - 30"

New!
Certa-Com™ Telecom Raceway System with CertainTeed's proven spline-lock restrained joint system (U.S. Patent Number 6,086,297)

High Strength and Flexibility for Directional Drilling Applications

CertainTeed developed the spline-lock joining system thirty years ago, and has successfully applied this technology in many demanding applications, including mining, irrigation, water well and trenchless water distribution systems. Put this experience to work for you in your next trenchless telecom raceway project.

CertainTeed
Quality made certain. Satisfaction guaranteed.

All the Advantages of the Contractor-Proven Certa-Lok™ PVC Joining System

- Lightweight and easy to handle
- Corrosion resistant
- Engineered joint immediately achieves full strength in all weather conditions
- No solvent cements required

NOW available for the trenchless construction market!

- Eliminates the cost, handling and assembly problems associated with HDPE pipe
- 20' lengths facilitate rapid assembly and minimize right-of-way requirements

NAVIGATOR® REPLACEMENT BILLS

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PLAIN



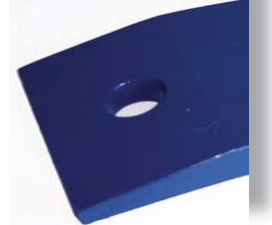
CARBIDE EMBEDDED



GATOR CLAW



BIGFOOT



CARBIDE EMBEDDING



CONICAL CARBIDE



SHARK TOOTH

PART NO.	DESCRIPTION
CUVM10-30-6-3/4"	3" x 3/4" Duckbill
CUVM10-35-6-3/4"	3-1/2" x 3/4" Duckbill
CUVM10-40-6-3/4"	4" x 3/4" Duckbill
CUVM10-45-6-3/4"	4-1/2" x 3/4" Duckbill
CUVM10-50-6-3/4"	5" x 3/4" Duckbill
CUVM10-60-6-3/4"	6" x 3/4" Duckbill
6" & 8" x 1" Duckbill Available for D50/80	

Applications: Soft to Medium Formations of Compacted Soils, Sand, Clay, and Loamy Conditions.

PART NO.	DESCRIPTION
CUVM11-30-6-3/4"	3" x 3/4" Duckbill w/carbide
CUVM11-35-6-3/4"	3 1/2" x 3/4" Duckbill w/carbide
CUVM11-40-6-3/4"	4" x 3/4" Duckbill w/carbide
CUVM11-45-6-3/4"	4 1/2" x 3/4" Duckbill w/carbide
CUVM11-50-6-3/4"	5" x 3/4" Duckbill w/carbide
CUVM11-60-6-3/4"	6" x 3/4" Duckbill w/carbide
6" & 8" x 1" Duckbill w/carbide Available for D50/80	

Applications: Broken Formations, Cobble, Gravel, Glacial Till, Some Shales and Sandstones, Hard Compacted Soils
Option: Steep-Tapered version available to aid in steering and to reduce drag (Gator II)

PART NO.	DESCRIPTION
CUVM13-35-6-3/4"	3 1/2" x 3/4" Gator Claw
CUVM13-40-6-3/4"	4" x 3/4" Gator Claw
CUVM13-45-6-3/4"	4 1/2" x 3/4" Gator Claw
CUVM13-50-6-3/4"	5" x 3/4" Gator Claw
CUVM13-60-6-3/4"	6" x 3/4" Gator Claw
6" & 8" x 1" Gator Claw Available for D50/80	

Applications: Hardpan, Dry Clay, Hard Compacted Soils
Option: Steep-Tapered version available to aid in steering and to reduce drag (The Bigfoot II)

PART NO.	DESCRIPTION
CUVM15-35-6-3/4"	3 1/2" x 3/4" Bigfoot
CUVM15-40-6-3/4"	4" x 3/4" Bigfoot
CUVM15-45-6-3/4"	4 1/2" x 3/4" Bigfoot
CUVM15-50-6-3/4"	5" x 3/4" Bigfoot
CUVM15-60-6-3/4"	6" x 3/4" Bigfoot
6" & 8" x 1" Bigfoot Available for D50/80	

SHCS12-1 (1/2"-13-1") or SHCS58-114 (5/8"-11-1/4") Bolt Set included with initial purchase.
Additional Bolts Sold Separately.



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BIGFOOT II

PART NO.	DESCRIPTION
CUVM27-35-6-3/4"	3-1/2" x 3/4" Bigfoot II
CUVM27-40-6-3/4"	4" x 3/4" Bigfoot II
CUVM27-45-6-3/4"	4-1/2" x 3/4" Bigfoot II
CUVM27-50-6-3/4"	5" x 3/4" Bigfoot II
CUVM27-60-6-3/4"	6" x 3/4" Bigfoot II
6" & 8" x 1" Bigfoot II Available for D50/80	



SHARK TOOTH



ALL TERRAIN

PART NO.	DESCRIPTION
CUVM22-35-6-3/4"	3-1/2" x 3/4" All Terrain
CUVM22-40-6-3/4"	4" x 3/4" All Terrain
CUVM22-45-6-3/4"	4-1/2" x 3/4" All Terrain
CUVM22-50-6-3/4"	5" x 3/4" All Terrain
CUVM22-60-6-3/4"	6" x 3/4" All Terrain



RE-ENFORCED CARBIDE INSERTS



POWER POINT

PART NO.	DESCRIPTION
CUVM19-35-6-3/4"	3-1/2" x 3/4" Power Point
CUVM19-40-6-3/4"	4" x 3/4" Power Point
CUVM19-45-6-3/4"	4-1/2" x 3/4" Power Point
CUVM19-50-6-3/4"	5" x 3/4" Power Point
CUVM19-60-6-3/4"	6" x 3/4" Power Point



BUTTON CARBIDE



MUD PUMPS & PARTS MYERS, APLEX, FMC & KERR

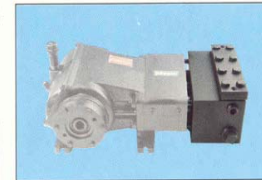
Myers APLEX Reciprocating Bentonite Pumps

EXCLUSIVE FEATURES

Spring Loaded Ball Valves and Hardened Valve Seats



Wear resistant, positive closure, self cleaning. BXM Series have hardened spherical valves, D and DP have flat valves.



Monoblock Liquid End Solid machined head for high strength. D and DP Models have cast ductile iron.



Bentonite Packing Chevron style neutralizes wear.

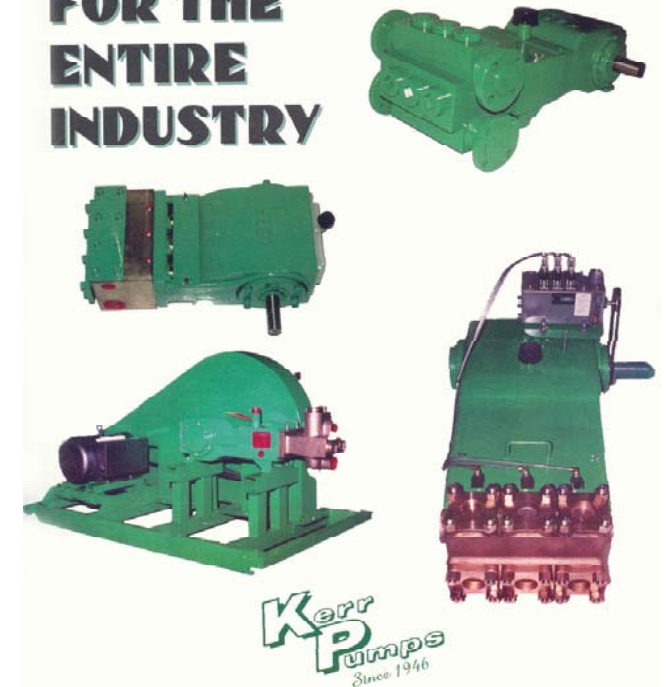


TECH-23 or Tungsten Carbide Plungers Long wearing and shock resistant.

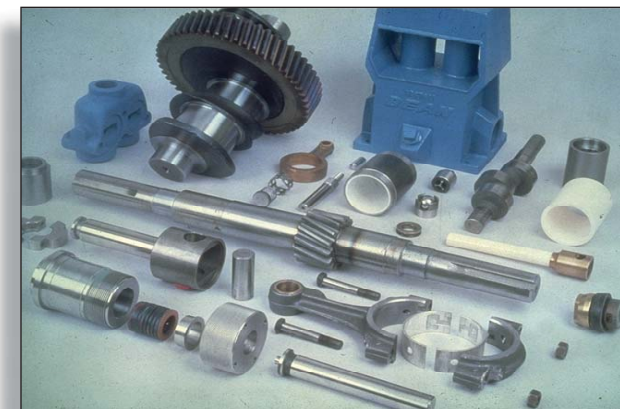


Available Hydraulic Drive Direct mount eliminates drive components.

FOR THE ENTIRE INDUSTRY



Kerr Pumps
Since 1946



Which pump or parts do you need today?



PROOFING MANDRELS & SEAL OFFS



PART NO.	DESCRIPTION
08034316	1-1/4" Innerduct Seal-off
08034317	1-1/2" Innerduct Seal-off
08034318	2" Innerduct Seal-off
08032165	Universal Seal-off Control Valve



PART NO.	DESCRIPTION
MAN1	1" Mandrel, 7/8" OD x 6" Long
MAN114	1-1/4" Mandrel, 1-1/8" OD x 6" Long
MAN112	1-1/2" Mandrel, 1-3/8" OD x 6" Long
MAN2	2" Mandrel, 1-7/8" OD x 6" Long

*Mandrels can be made to custom specifications up to 8".

CUP & CONE DUCT PROJECTILES



DUCT CONE PROJECTILES

SIZE	CATALOG NUMBER	UNIT	QTY PER CASE
1"	2110-010	EA	1
1-1/4" SDR11	2110-011	EA	1
1-1/4"	2110-012	EA	1
1-3/8"	2110-013	EA	1
1-1/2" SDR11	2110-014	EA	1
1-1/2"	2110-015	EA	1
1-7/8"	2110-017	EA	1
2" SDR11	2110-019	EA	1
2"	2110-020	EA	1
2-1/2"	2110-025	EA	1
3"	2110-030	EA	1
4"	2110-040	EA	1
5"	2110-050	EA	1
6"	2110-060	EA	1

Cal Am Manufacturing's "Cal Missile" is the Cadillac of all missile line carriers; Constructed with heavy-duty stainless steel hardware and Polyurethane blow cups, this ultra-tough projectile will perform flawlessly for you time and time again.

Used to pneumatically install pull line into conduit runs, the Cal Missile is fast and efficient, easily blowing through even out-of-round duct with hand blower tools. The Cal Missile features dual fastening rings, one on each end of the projectile and is available with either two or three polyurethane cups, which offer the elasticity of rubber combined with the toughness and durability of metal.

INNER DUCT CUP PROJECTILE

SIZE	CATALOG NUMBER	UNIT	QTY PER CASE
3/4"	2120-007	EA	1
1"	2120-010	EA	1
1-1/8"	2120-011	EA	1
1-1/4"	2120-012	EA	1
1-3/8" SDR11	2120-013	EA	1
1-1/2"	2120-015	EA	1
2"	2120-020	EA	1



NAVIGATOR® REPLACEMENT BILLS

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GRIZZLY CLAW

Ridge-Breaker Style Carbide Teeth with Hard-Facing Applications: Hardpan, Dry Clay, Hard Compacted Soils Option: Steep-Tapered version to aid in steering and to reduce drag. (Grizzly Claw II)

PART NO.	DESCRIPTION
CUVM16-40-6-3/4"	4" x 3/4" Grizzly Claw
CUVM16-50-6-3/4"	5" x 3/4" Grizzly Claw
CUVM16-60-6-3/4"	6" x 3/4" Grizzly Claw
CUVM16-80-6-3/4"	8" x 3/4" Grizzly Claw

6" & 8" x 1" Grizzly Claw Available for D50/80



RIDGE BREAKER



GRIZZLY CLAW II

PART NO.	DESCRIPTION
CUVM18-40-6-3/4"	4" x 3/4" Grizzly Claw II
CUVM18-45-6-3/4"	4-1/2" x 3/4" Grizzly Claw II
CUVM18-50-6-3/4"	5" x 3/4" Grizzly Claw II
CUVM18-60-6-3/4"	6" x 3/4" Grizzly Claw II

6" & 8" x 1" Grizzly Claw II Available for D50/80



RIDGE BREAKER



JETTRAC® REPLACEMENT BILLS

All of our blades are manufactured from 4140 Alloy Steel plate. They have a hole for pullback applications. The blades are bent and heat-treated for maximum performance and durability.



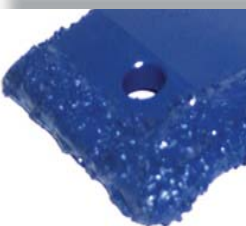
PLAIN

PART NO.	DESCRIPTION
CUDW10-35-5-3/4"	3 1/2" x 3/4" Duckbill
CUDW10-40-5-3/4"	4" x 3/4" Duckbill
CUDW10-45-5-3/4"	4 1/2" x 3/4" Duckbill
CUDW10-50-5-3/4"	5" x 3/4" Duckbill
CUDW10-50-6-3/4"	5" x 3/4" Duckbill (6-Bolt)
CUDW10-60-6-3/4"	6" x 3/4" Duckbill (6-Bolt)



CARBIDE EMBEDDED

Carbide Embedded Hard-Facing Applications: Soft to Medium Formations of Compacted Soils, Sand, Clay, and Loamy Conditions.	
PART NO.	DESCRIPTION
CUDW11-35-5-3/4"	3 1/2" X 3/4" Bent Bill w/carbide
CUDW11-40-5-3/4"	4" x 3/4" Bent Bill w/carbide
CUDW11-45-5-3/4"	4 1/2" x 3/4" Bent Bill w/carbide
CUDW11-50-5-3/4"	5" x 3/4" Bent Bill w/carbide
CUDW11-50-6-3/4"	5" x 3/4" Bent Bill w/carbide (6-Bolt)
CUDW11-60-6-3/4"	6" x 3/4" Bent Bill w/carbide (6-Bolt)



CARBIDE EMBEDDING



GATOR CLAW & GATOR CLAW II

Conical Carbide Style Teeth with Hard-Facing Applications: Broken Formations, Cobble, Gravel, Glacial Till, Some Shales and Sandstones, Hard Compacted Soils Option: Steep-Tapered version to aid in steering and to reduce drag (Gator II)	
PART NO.	DESCRIPTION
CUDW13-35-5-3/4"	3 1/2" x 3/4" Gator Claw
CUDW13-40-5-3/4"	4" x 3/4" Gator Claw
CUDW13-45-5-3/4"	4 1/2" x 3/4" Gator Claw
CUDW13-50-5-3/4"	5" x 3/4" Gator Claw
CUDW13-50-6-3/4"	5" x 3/4" Gator Claw (6-Bolt)
CUDW13-60-6-3/4"	6" x 3/4" Gator Claw (6-Bolt)



CONICAL TEETH



BIGFOOT & BIGFOOT II

Shark-Tooth Style Carbide Teeth with Hard-Facing Applications: Hardpan, Dry Clay, Hard Compacted Soils Option: Steep-Tapered version to aid in steering and to reduce drag (The Bigfoot II)	
PART NO.	DESCRIPTION
CUDW15-35-5-3/4"	3 1/2" x 3/4" Bigfoot
CUDW15-40-5-3/4"	4" x 3/4" Bigfoot
CUDW15-45-5-3/4"	4 1/2" x 3/4" Bigfoot
CUDW15-50-5-3/4"	5" x 3/4" Bigfoot
CUDW15-50-6-3/4"	5" x 3/4" Bigfoot (6-Bolt)
CUDW15-60-6-3/4"	6" x 3/4" Bigfoot (6-Bolt)



SHARK TEETH

All 6-Bolt Bills use: M16-2.0-35(M16-2.0 x 35mm) & 5-Bolt Bills use: M12-1.75-25 (M12-1.75 x 25mm)

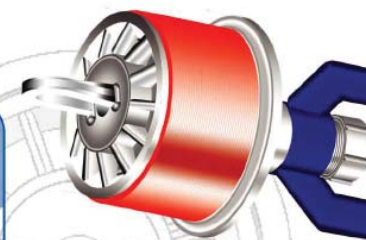


KWIKIE™ CONDUIT & PIPE PLUGS

The Kwikie plug functions by compressing a thermoplastic elastomer seal between two U.V. Ozone and chemically resistant compression plates through the hand-tightening of a loop or wing nut; the compressed seal expanding into full contact with the inside pipe walls thereby providing an effective, permanent, positive seal to your conduit system in seconds. Once in place the Kwikie plug will not move until you decide to remove it.

KWIKIE PLUG WITH WING NUT

SIZE	CATALOG NUMBER	DESCRIPTION	UNIT	QTY PER CASE	CASE DIMENSIONS	CASE WEIGHT (LBS)
2-1/2"	5120-25	Hollow Stem	CS	30	16" x 12" x 8"	11
3"	5120-30	Hollow Stem	CS	30	16" x 12" x 8"	13
3-1/2"	5120-35	Hollow Stem	CS	30	16" x 12" x 12"	15
4"	5120-40	Hollow Stem	CS	30	18" x 12" x 12"	16
4-1/4"	5120-42	Hollow Stem	CS	25	18" x 12" x 12"	17
5"	5120-58	Hollow Stem Schedule 80	CS	20	18" x 12" x 12"	14
6"	5120-60	Hollow Stem	CS	20	20" x 15" x 15"	17



KWIKIE PLUG WITH LOOP NUT

SIZE	CATALOG NUMBER	DESCRIPTION	UNIT	QTY PER CASE	CASE DIMENSIONS	CASE WEIGHT (LBS)
3/4"	5120-07	Solid Stem	CS	50	10" x 8" x 4"	4
1"	5120-10	Solid Stem	CS	50	10" x 8" x 4"	4
1-1/8"	5120-11	Solid Stem	CS	50	10" x 8" x 4"	4
1-1/4"	5120-12	Solid Stem	CS	50	10" x 8" x 4"	4
1-1/2"	5120-15	Solid Stem	CS	50	12" x 8" x 6"	6
2"	5120-20	Solid Stem	CS	50	14" x 10" x 6"	8
2-1/2"	5120-25L	Hollow Stem	CS	30	16" x 12" x 8"	12
3"	5120-30L	Hollow Stem	CS	30	16" x 12" x 12"	14
3-1/2"	5120-35L	Hollow Stem	CS	30	16" x 12" x 12"	15
4"	5120-40L	Hollow Stem	CS	30	18" x 12" x 12"	17
4-1/4"	5120-42L	Hollow Stem	CS	25	18" x 12" x 12"	17
5"	5120-50L	Hollow Stem	CS	20	18" x 12" x 12"	14
5"	5120-58L	Hollow Stem Schedule 80	CS	20	18" x 12" x 12"	15
6"	5120-60L	Hollow Stem	CS	20	20" x 15" x 15"	18





Bridgestone Continuous Rubber Tracks for HDD Drills (Vermeer & Ditch Witch)

Components and Features

- Patented Tread design for a balance of traction, durability and ride comfort
- Patented Tread Bridge for durability
- Edge cut resistance provided by Pro-Edge
- Reinforced Roller Path for extended service life
- Application specific tread patterns available

CRAWLER WIDTH (MM) X NUMBER OF LINKS/LUGS X LENGTH OF PITCH (MM)
 1 2 3 ... (distance between high points) Ex: 250 x 45 x 72

Contact Us for Pricing & Availability based on dimensions needed above.

All of our blades are manufactured from 4140 Alloy Steel plate. They have a hole for pullback applications. The blades are bent and heat-treated for maximum performance and durability.



GRIZZLY

Applications: Hardpan, Dry Clay, Hard Compacted Soils
Option: Steep-Tapered version to aid in steering and to reduce drag. (Grizzly Claw II)

PART NO.	DESCRIPTION
CUDW16-40-5-3/4"	4" x 3/4" Grizzly Claw
CUDW16-45-5-3/4"	4 1/2" x 3/4" Grizzly Claw
CUDW16-50-5-3/4"	5" x 3/4" Grizzly Claw
CUDW16-50-6-3/4"	5" x 3/4" Grizzly Claw (6-Bolt)
CUDW16-60-6-3/4"	6" x 3/4" Grizzly Claw (6-Bolt)



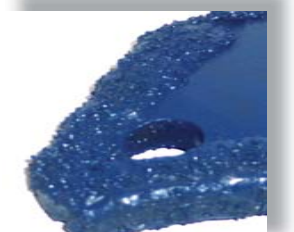
RIDGE BREAKER



STEEP TAPERED

Applications: Compacted Soils, Packed Clay, Gravel, Sand and Clay with Cobbles. Steep-Taper aids steering in difficult soil conditions and to reduce drag.

PART NO.	DESCRIPTION
CUDW12-40-5-3/4"	4" x 3/4" Steep Taper w/carbide
CUDW12-45-5-3/4"	4 1/2" x 3/4" Steep Taper w/carbide
CUDW12-50-5-3/4"	5" x 3/4" Steep Taper w/carbide
CUDW12-50-6-3/4"	5" x 3/4" Steep Taper w/carbide
CUDW12-60-6-3/4"	6" x 3/4" Steep Taper w/carbide

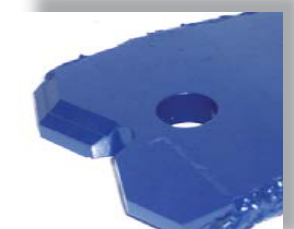


CARBIDE EMBEDDING



CHEVRON BIT

PART NO.	DESCRIPTION
CUDW25-40-5-3/4"	4" x 3/4" Chevron
CUDW25-45-5-3/4"	4 1/2" x 3/4" Chevron
CUDW25-50-5-3/4"	5" x 3/4" Chevron
CUDW25-50-6-3/4"	5" x 3/4" Chevron (6-Bolt)
CUDW25-60-6-3/4"	6" x 3/4" Chevron (6-Bolt)



FINGER BIT

PART NO.	DESCRIPTION
CUDW24-35-5-5/8"	3-1/2" x 5/8" Finger Bit (5-Bolt)
CUDW24-40-5-5/8"	4" x 5/8" Finger Bit (5-Bolt)
BOLTS	
M12-1.75-16	For 3-Bolt Jettrac®
M12-1.75-25	For All 5-Bolt Jettrac®
M16-2.0-35	For All 6-Bolt Jettrac®



TRI-CONE BIT



Are you looking for *New or Used High Quality Tri-cone bits!*
Designed for use with DW2720AT, DW4020AT Directional Drill Machines and Mud Motors.

PART NO	CUT	DESCRIPTION	FORMATION
RCB434N	4-3/4"	2-7/8" API R. Pin	Soft, Med., Hard
RCB514N	5-1/4"	3-1/2" API R. Pin	Soft, Med., Hard
RCB612N	6-1/2"	3-1/2" API R. Pin	Soft, Med., Hard
RCB834N	8-3/4"	4-1/2" API R. Pin	Soft, Med., Hard
RCB978N	9-7/8"	6-5/8" API R. Pin	Soft, Med., Hard

* Re-Run bits available in most sizes. Please call for pricing & availability.

* Larger or special sizes are available.



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GEARENCH®

We supply the tongs you can trust to get the job done safely!

BUKUPTONGS



DRILL PIPE TONGS



PETOL BULL TONGS



CHAIN HOIST



Rugged and Lightweight

- Impact Resistant Stamped Steel Housing-Withstands years of rigorous use.
- Compact Design-Extremely portable and easy to rig
- Longer Chain Life-Through-hardened load chain provides high strength and resists wear.

Easy To Operate

- 360° Rotating Handle-Provides versatile rigging options when in confined space.

PART NO.	LBS.	TONS	LIFT (FT.)	STRANDS OF LOAD CHAIN	MINIMUM DISTANCE BETWEEN HOOKS	HANDLE LENGTH (IN.)	AVERAGE HANDLE EFFORT (LBS.)	NET WEIGHT (LBS.)
LMSB-1500	1,500	3/4	5	1	11-5/8"	9-1/4"	46	13
LMSB-3000	3,000	1 1/2	5	1	14-31/32"	13-3/4"	55	22
LMSB-6000	6,000	3	5	1	16-9/16"	13-3/4"	77	34

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FORGED DRILL ROD

*NAVIGATOR DRILLS	PART NO.	DESCRIPTION	WALL	WEIGHT
D6, D7/11	DRF-V001	1.66" X 6FT	.24	31
D7, D10	DRF-V002	1.66" X 10FT	.24	45
D16/20	DRF-V003	1.90" X 10FT	.24	54
D24, D24/26	DRF-V004	2.06" X 10FT	.270	64
D24/40	DRF-V005	2 3/8" X 10FT	.254	75



FORGED P110 MATERIAL

JT520 & JT920 Inertia Welded drill rod also available. Manufactured using 4140 quenched and tempered tool joints, fused to premium mid-body tubing.

*JETTRAC DRILLS	PART NO.	DESCRIPTION	WALL	WEIGHT
JT520	DRI-DW00	1.25 X 59"	.25	20
JT920	DRI-DW01	1.66 X 116.11"	.24	39
JT1720	DRF-DW04	2.063 X 116.11"	.27	59
JT2720	DRF-DW05	2.375 X 116.11"	.28	78
JT4020	DRF-DW06	2.875" X 177.20"	.362	176
JT7020	DRI-DW07	3.50" X 177.20"	.368	239

Got Thread Protection?

Getting you the quantity you need as quick as possible!



Need Big or Extension Subs? Call Today!



ROCK BITS & HOUSING

PART NO	DESCRIPTION	THREAD
D208	4" Duro Bore 12°	2-3/8" API R. Pin
D271	5" Duro Bore 14°	2-3/8" API R. Pin
D211	6" Duro Bore 11°	2-3/8" API R. Pin
D309	6" Duro Bore 11°	2-7/8" API R. Pin
D206	6" Duro Bore 11°	3-1/2" API R. Pin
D270	8" Duro Bore	3-1/2" API R. Pin
D257	8" Duro Bore	4-1/2" API R. Pin

ALL SOILS BIT



PART NO	DESCRIPTION	THREAD
D303	3.5" Bog Hog 25°	2" IF Pin
D258	4" Bog Hog 25°	2-3/8" API R. Pin
D261	5" Bog Hog 25°	2-3/8" API R. Pin
D269	6" Bog Hog 25°	2-3/8" API R. Pin
D312	6" Bog Hog 25°	2-7/8" API R. Pin
D274	6" Bog Hog 25°	3-1/2" API R. Pin
D353	8" Bog Hog	3-1/2" API R. Pin
D354	8" Bog Hog	4-1/2" API R. Pin

BOG HOG



PART NO	DESCRIPTION	THREAD
D290	3.5" Quick Steer 18°	2" IF Pin
D260	4.5" Quick Steer 18°	2-3/8" API R. Pin
D259	5.5" Quick Steer 18°	2-3/8" API R. Pin
D347	5.5" Quick Steer 18°	2-7/8" API R. Pin
D275	5.5" Quick Steer 18°	3-1/2" API R. Pin
D268	6.5" Quick Steer 18°	2-3/8" API R. Pin
D348	6.5" Quick Steer 18°	2-7/8" API R. Pin
D440	6.5" Quick Steer 18°	3-1/2" API R. Pin
D451	4.5" Quick Steer 18°	2" IF Pin

QUICK STEER



PART NO	DESCRIPTION	THREAD
D175	4" Duro Spade 18°	2-3/8" API R. Pin
D202	5.5" Duro Spade 20°	2-3/8" API R. Pin
D204	5.5" Duro Spade 20°	3-1/2" API R. Pin
D203	6.5" Duro Spade 20°	2-3/8" API R. Pin
D311	6.5" Duro Spade 20°	2-7/8" API R. Pin
D205	6.5" Duro Spade 20°	3-1/2" API R. Pin

DURO SPADE



SINGLE CONE		
PART NO	DESCRIPTION	THREAD
SRC200	3-1/2" Single Cone Bit	2" IF Pin
SRC238	4-3/4" Single Cone Bit	2-3/8" API R. Pin
SRC278	5" Single Cone Bit	2-7/8" API R. Pin
SRC312	5-1/2" Single Cone Bit	3-1/2" API R. Pin



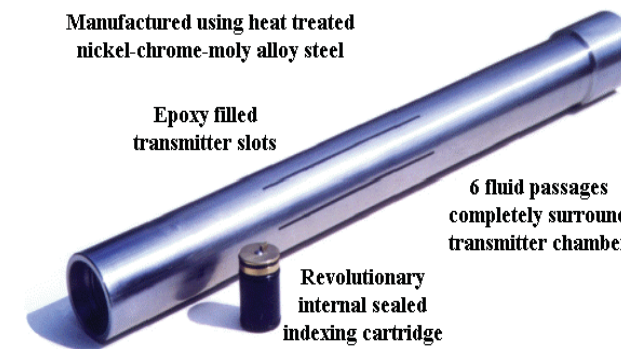
JETTING BIT		
PART NO	DESCRIPTION	THREAD
JB238-VM	3-1/2" Bit Adapter 6-Bolt Navigator®	2-3/8" API R. Pin
JB278-VM	4" Bit Adapter 6-Bolt, 50/100, 80/100	2-7/8" API R. Pin
JB350-VM	4-1/2" Bit Adapter 6-Bolt, 80/100	3-1/2" API R. Pin



REAR LOAD SONDE HOUSING		
PART NO	DESCRIPTION	HOUSING THREADS
D285	3.25" Dia. Housing, 31" Long	2-3/8" API Reg Box (Fwd) 2-3/8" API Reg Box (Rear)
D287	3.63" Dia. Housing, 31" Long	2-3/8" API Reg Box (Fwd) 2-3/8" IF Box (Rear)
D308	4.25" Dia. Housing, 35" Long	2-7/8" API Reg Box (Fwd) 2-7/8" IF Box (Rear)
D315	4.88" Dia. Housing, 35" Long	3-1/2" API Reg Box (Fwd) 3-1/2" IF Box (Rear)
D196	6.38" Dia. Housing, 35" Long	4-1/2" API Reg Box (Fwd) 4-1/2" IF Box (Rear)

Manufactured using heat treated nickel-chrome-moly alloy steel

Epoxy filled transmitter slots



6 fluid passages completely surround transmitter chamber

Revolutionary internal sealed indexing cartridge



RADIUS



The Radius Rock Bit offers several innovative improvements:

- Center Axis Cutting reduces vibration
- Re-enforced Crown
- Recessed Water Ports
- Heat Treated Alloy



PART NO	DESCRIPTION	MACHINE	HOLE SIZE*
RB200	2" IF Pin, Cuts 5" Hole	7k-24k lb Rig	5" - 7"
RB238	2-3/8" API Pin, Cuts 6" Hole	24k-50k lb Rig	6" - 8"
RB278	2-7/8" API Pin, Cuts 7.5" Hole <small>*Hole size is approximate depending on conditions</small>	50k-80k lb Rig	8" - 10"
RB312	3-1/2" API Pin	80K-180K Rig	9" - 11"
RB412	4-1/2" API Pin	80K-180K Rig	9" - 11"

*Hole size approximate is based on conditions!

Radius "Lock and Load" (Patent Pending) Sonde Housings revolutionary design offers both the flow and security of an end-load design with the benefits and access of a side-load housing.



PART NO	DESCRIPTION		MACHINE	OD
	FRONT	REAR		
SHRIF-300	2" IF	3" Radius Pin	7k-24k lb Rig	3"
SHRIF-312	2-3/8" API Reg. Box	3-1/2" Radius Pn	24k-50k lb Rig	3-1/2"
SHRIF-400	2-7/8" API Reg. Box	4" Radius Pin	50k-80k lb Rig	4"

Connects to all machines!

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ROD WIPERS



Available in 9" diameter.
Custom ID to fit any size drill rod!

PART NO.	DESCRIPTION	ROD SIZE	MACHINE
RW-B	Rod Wiper - Blank	For Self Sizing	
RW1	Rod Wiper 1"	1.125 Rod	JT520
RW112	Rod Wiper 1-1/2"	1.66 Rod	JT820, JT920, JT920L, D7/11, D10/15
RW134	Rod Wiper 1-3/4"	1.90 Rod	D16/20, D18/22
RW178	Rod Wiper 1-7/8"	2.06 Rod	JT1720, D18/22, D24A, CASE 6010
RW218	Rod Wiper 2-1/8"	2.375 Rod	JT2720, D24/40, D40/40, CASE 6030
RW238	Rod Wiper 2 3/8"	2.56 Rod	D33/44, D36/50
RW234	Rod Wiper 2-3/4"	2.875 Rod	JT4020, D50/100, DD4
RW314	Rod Wiper 3-1/4"	3.5 Rod	JT7020, D80/100, DD6
RW14-314D	Rod Wiper 3-1/4", 14" Dual Split	3.5 Rod	JT7020, D80/100, DD6, DD8
RW14-434D	Rod Wiper 4-3/4", 14" Dual Split	5" Rod	DD90 & Up

GREASE

It only takes a few minutes to care for those threads!

Clean & grease to increase the life of your product!

There is more than one way to protect those threads!



PART NO.	DESCRIPTION
CPPR14OZ	14 oz Tube Drill Rod Grease
CPPR1GL	1 Gallon Drill Rod Grease
CPPR2GL	2 Gallon Drill Rod Grease
CPPR5GL	5 Gallon Drill Rod Grease
ZN-50	3 1/2 Gl. Zinc Lube Drill Rod Grease
MC62924	Swivel Grease, Calcium 14 oz. Tube
CFR212GL	2 1/2 Gallon Water Based Drilling Lub.
777-1042	Pipe Dope Brush
777-001	Pipe Dope Brush Handle (4' Long)
02500	Tapered Pipe Dope Brush (30" Long)

Clean Up will remove the Kopr Kote from the drill rig until you close!

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WATER SWIVELS

Water swivels are compatible for Ditch Witch® and Vermeer® water swivel rotary motors, with high pressure capabilities of 1500 PSI up to 6000 PSI. They have lubricated packing and bearings for longer life and dependability.



PART NO	DESCRIPTION	FITTING	DW* MACHINE	VM* MACHINE
TD-2	Water Swivel, Re-buildable	3/4" NPT	JT920, JT1720, JT2720	D7/11, D16/20, D24/26, D24/40
TD-4	Water Swivel, Re-buildable	1" NPT	JT4020	D33/44
TD-10	Water Swivel, Re-buildable	1-1/2" NPT		D50/100, D80/100
TD-12	Water Swivel, Re-buildable	1-1/2" NPT	JT7020	D50/100
We stock replacement parts for the heavy duty swivels above! *O'ring adapter kit needed for some Vermeer® Drills.				
9SS8MO	90° Water Swivel	1/2" NPT	JT920	D7/11
9SS12MO	90° Water Swivel	3/4" NPT	JT1720, JT2720	D16/20, D24/40, D33/44
9SS24MP	90° Water Swivel	1-1/2" NPT	JT7020	D50/100, D80/100
Disposable water swivels above. *NPT adapter needed for some Ditch Witch® Drills.				

WEAR BAR



Is it time to replace those worn out wear bars on your Navigator®?

PART NO.	DESCRIPTION
220886	1-3/4" x 14-1/2" Wear Bar
220961	2-1/2" x 14-1/2" Wear Bar
220887	2-3/4" x 14-1/2" Wear Bar
220963	3-1/2" x 14-1/2" Wear Bar
220962	2-1/2" x 18" Wear Bar
220967	4-1/2" x 17-3/4" Wear Bar

— Set for D24/40

— Set for D50/100

Also available in custom sizes!



REAMER COMPACTION CHART

We can help you choose the best reamer for your soil conditions and your machine. We have too many connections to list. Customizing reamers for you is our specialty! What thread do you have? What teeth would you like? Are you using a swivel or a shackle? Let us know which reamer we can build for you today!

PART NO	DESCRIPTION	COMPACTION	ACT CUT SH1654 1-3/4"	ACT CUT SH300 2-1/4"	ACT CUT SH300-250 1-1/4"	ACT CUT C1340-01 3/4"	ACT CUT SH1065-50 1-1/16"	ACT CUT 2860 1-3/8"
FC6	6" Fly Cutter	6-5/8"	N/A	N/A	7-3/8"	N/A	7-5/16"	N/A
FC8	8" Fly Cutter	8-5/8"	N/A	N/A	9-3/8"	1"	9-5/16"	N/A
FC10	10" Fly Cutter	10-3/4"	N/A	N/A	11-1/2"	N/A	N/A	N/A
FC12	12" Fly Cutter	12-3/4"	N/A	N/A	13-1/2"	N/A	N/A	N/A
FC14	14" Fly Cutter	14"	N/A	N/A	14-3/4"	N/A	N/A	N/A
FC16	16" Fly Cutter	16"	N/A	N/A	16-3/4"	N/A	N/A	N/A
FC18	18" Fly Cutter	18"	N/A	N/A	18-3/4"	N/A	N/A	N/A
FC20	20" Fly Cutter	20"	N/A	N/A	20-3/4"	N/A	N/A	N/A
FC22	22" Fly Cutter	22"	N/A	N/A	22-3/4"	N/A	N/A	N/A
FC24	24" Fly Cutter	24"	N/A	N/A	24-3/4"	N/A	N/A	N/A
PR4	4" Packer Reamer	4-1/2"	6-1/4"	N/A	5-3/4"	5-1/4"	5-9/16"	5-7/8"
PR6	6" Packer Reamer	6-5/8"	8-3/8"	N/A	7-1/2"	7-3/8"	7-11/16"	8"
PR8	8" Packer Reamer	8-5/8"	10-3/8"	N/A	9-7/8"	9-3/8"	9-11/16"	10"
PR10	10" Packer Reamer	10-3/4"	N/A	13"	12"	N/A	N/A	12-1/8"
PR12	12" Packer Reamer	12-3/4"	N/A	15"	14"	N/A	N/A	14-1/8"
PR14	14" Packer Reamer	14"	N/A	16-1/4"	15-1/4"	N/A	N/A	15-3/8"
PR16	16" Packer Reamer	16"	N/A	16-1/4"	17-1/4"	N/A	N/A	17-3/8"
PR18	18" Packer Reamer	18"	N/A	20-1/4"	19-1/4"	N/A	N/A	19-3/8"
PR20	20" Packer Reamer	20"	N/A	22-1/4"	21-1/4"	N/A	N/A	21-3/8"
PR24	24" Packer Reamer	24"	N/A	26-1/4"	25-1/4"	N/A	N/A	25-3/8"
WOLV8	8" Wolverine Reamer	8-5/8"	N/A	N/A	9-7/8"	N/A	N/A	10"
WOLV10	10" Wolverine Reamer	10-3/4"	N/A	N/A	12"	N/A	N/A	12-1/8"
WOLV12	12" Wolverine Reamer	12-3/4"	N/A	N/A	14"	N/A	N/A	14-1/8"
WOLV14	14" Wolverine Reamer	14"	N/A	NA	15-1/4"	N/A	N/A	16-1/8"
WOLV16	16" Wolverine Reamer	16"	N/A	N/A	17-1/4"	N/A	N/A	17-1/8"
WOLV18	18" Wolverine Reamer	18"	N/A	N/A	19-1/4"	N/A	N/A	19-1/8"
WOLV20	20" Wolverine Reamer	20"	N/A	N/A	21-1/4"	N/A	N/A	21-1/8"
WOLV22	22" Wolverine Reamer	22"	N/A	N/A	23-1/4"	N/A	N/A	23-1/8"
WOLV24	24" Wolverine Reamer	24"	N/A	N/A	25-1/4"	N/A	N/A	25-1/8"
BADR8	8" Badger Reamer	8-5/8"	9-3/8"	N/A	9-7/8"	N/A	N/A	10"
BADR10	10" Badger Reamer	10-3/4"	11-1/2"	11-7/8"	11"	N/A	N/A	11-1/8"
BADR12	12" Badger Reamer	12-3/4"	13-1/2"	13-7/8"	13"	N/A	N/A	13-1/8"
BADR14	14" Badger Reamer	14"	14-3/4"	15-1/8"	14-1/4"	N/A	N/A	14-3/8"
BADR16	16" Badger Reamer	16"	16-3/4"	17-7/8"	15-1/4"	N/A	N/A	16-3/8"
BADR18	18" Badger Reamer	18"	18-3/4"	19-1/8"	18-1/4"	N/A	N/A	18-3/8"
BADR20	20" Badger Reamer	20"	20-3/4"	21-1/8"	20-1/4"	N/A	N/A	20-3/8"
BADR22	22" Badger Reamer	22"	22-3/4"	23-1/8"	22-1/4"	N/A	N/A	22-3/8"
BADR24	24" Badger Reamer	24"	24-3/4"	25-1/8"	24-1/4"	N/A	N/A	24-3/8"
TR6	6" Turbo Reamer	6-5/8"	N/A	N/A	8-7/8"	N/A	N/A	N/A
TR8	8" Turbo Reamer	8-5/8"	N/A	N/A	10-7/8"	N/A	N/A	N/A
TR10	10" Turbo Reamer	10-3/4"	N/A	N/A	13"	N/A	N/A	N/A
TR12	12" Turbo Reamer	12-3/4"	N/A	N/A	15"	N/A	N/A	N/A
TR14	14" Turbo Reamer	14"	N/A	N/A	16-1/4"	N/A	N/A	N/A
TR16	16" Turbo Reamer	16"	N/A	N/A	18-1/4"	N/A	N/A	N/A
TR18	18" Turbo Reamer	18"	N/A	N/A	20-1/4"	N/A	N/A	N/A



BADGER



DESIGNED FOR USE IN:
HARD PAN & CALICHE

FEATURES INCLUDE:

- New feature with forward jetting action into the cut
- Carbide Teeth
- 1/4" Water Ports
- Hard-Facing throughout body
- Designed to fit: Vermeer®, Ditch Witch®, American Augers®, Straightline®

OPTIONS:

- Carbide Embedding on compaction surface
- With or without nozzles on blades



FLY CUTTER II



DESIGNED FOR USE IN:
DRY PACKED CLAYS,
COMPACTED SOILS

FEATURES INCLUDE:

- Fluid delivered to each wing at cutting edge helps control balling up of reactive soils.
- Packing Ring for Hole Stability.
- Hard-facing on packing ring and wings for durability and long life.
- Designed to fit: Vermeer®, Ditch Witch®, American Augers®, Straightline®

OPTIONS:

- Nozzle Diameter
- Teeth • Packing Ring Length
- Pulling Eye or Thread Connection on Product end of Reamer.

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BREWIS SWIVELS



BREWIS BIG RIG SWIVELS, BOX X CLEVIS

PART NO.	DESCRIPTION
10-044	44 US Ton Big Rig Pullback Swivel, 3-1/2" IF Box x Clevis
10-058	58 US Ton Big Rig Pullback Swivel, 4-1/2" IF Box x Clevis
10-083	83 US Ton Big Rig Pullback Swivel, 4-1/2" IF Box x Clevis
10-110	110 US Ton Big Rig Pullback Swivel, 4-1/2" IF Box x Clevis
10-154	154 US Ton Big Rig Pullback Swivel, 4-1/2" IF Box x Clevis
10-210	210 US Ton Big Rig Pullback Swivel, 5-1/2" Full Hole Box x Clevis
10-265	265 US Ton Big Rig Pullback Swivel, 6-5/8" Full Hole Box x Clevis
10-320	320 US Ton Big Rig Pullback Swivel, 6-5/8" Full Hole Box x Clevis
10-382	382 US Ton Big Rig Pullback Swivel, 6-5/8" Full Hole Box x Clevis
10-550	550 US Ton Big Rig Pullback Swivel, 6-5/8" Full Hole Box x Clevis

BREWIS BIG RIG SWIVELS, CLEVIS X CLEVIS

PART NO.	DESCRIPTION
10-044B	44 US Ton Big Rig Pullback Swivel, Clevis x Clevis
10-058B	58 US Ton Big Rig Pullback Swivel, Clevis x Clevis
10-083B	83 US Ton Big Rig Pullback Swivel, Clevis x Clevis
10-110B	110 US Ton Big Rig Pullback Swivel, Clevis x Clevis
10-154B	154 US Ton Big Rig Pullback Swivel, Clevis x Clevis
10-210B	210 US Ton Big Rig Pullback Swivel, Clevis x Clevis
10-265B	265 US Ton Big Rig Pullback Swivel, Clevis x Clevis
10-320B	320 US Ton Big Rig Pullback Swivel, Clevis x Clevis
10-382B	382 US Ton Big Rig Pullback Swivel, Clevis x Clevis
10-550B	550 US Ton Big Rig Pullback Swivel, Clevis x Clevis



Mini Rig HDD Pullback Swivels

The "MINI RIG" range offers the directional driller a high quality swivel at a competitive price. Using all their big swivel expertise they have engineered a range of compact and durable swivels for the cost conscious.

BREWIS MINI RIG PULLBACK SWIVELS, CLEVIS X CLEVIS

PART NO.	DESCRIPTION
11-010	10 US Ton Mini Rig Pullback Swivel, Clevis x Clevis
11-015	15 US Ton Mini Rig Pullback Swivel, Clevis x Clevis
11-020	20 US Ton Mini Rig Pullback Swivel, Clevis x Clevis
11-030	30 US Ton Mini Rig Pullback Swivel, Clevis x Clevis

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DCD SWIVELS

DUB-LITE® CLEVIS/CLEVIS



DUB-LITE SWIVEL® TYPE 2 CLEVIS/CLEVIS	
PART NO	DESCRIPTION
00503-204	8.5K Dub-Lite Swivel
00503-205	10K Dub-Lite Swivel
00503-208	15K Dub-Lite Swivel
00503-210	20K Dub-Lite Swivel
00503-215	30K Dub-Lite Swivel
00503-220	40K Dub-Lite Swivel
00503-230	60K Dub-Lite Swivel
00503-245	90K Dub-Lite Swivel

DUB-SWIVEL® TYPE 2 CLEVIS/CLEVIS



DUB-SWIVEL® TYPE 2 CLEVIS/CLEVIS	
PART NO	DESCRIPTION
00508-210	20K Dub Swivel
00508-215	30K Dub Swivel
00508-220	40K Dub Swivel
00508-230	60K Dub Swivel
00508-240	80K Dub Swivel
00508-260	120K Dub Swivel

00503-715V
VM QUICK CONNECT



DUB-IN™

PULLERS & INNERDUCT EYES



STANDARD DUCT PULLER 620 SERIES	
PART NO	DESCRIPTION
00620	1-1/4", 1-1/2", 2", 2-1/2" Standard Puller
00620-300	3" Standard Puller
00620-400, 00620-500	4", 5" Standard Puller
00620-600	6" Standard Puller
00620-800	8" Standard Puller



DUCT PULLER 650 SERIES	
PART NO	DESCRIPTION
00650-125	1-1/4" Duct Puller
00650-200	2" Duct Puller
00650-300	3" Duct Puller
00650-400	4" Duct Puller
00650-600	6" Duct Puller



INNERDUCT PULLER - LUG 604 SERIES	
PART NO	DESCRIPTION
00604-075	3/4" Duct Puller, .72 - .93
00604-100	1" Duct Puller, .94 - 1.15
00604-125	1-1/4" Duct Puller, 1.26 - 1.44
00604-150	1-1/2" Duct Puller, 1.48 - 1.66
00604-200	2" Duct Puller, 1.91 - 2.08
00604-010	Tool

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FLY CUTTER



DESIGNED FOR USE IN:
SAND, SOFT SOILS AND COBBLE

FEATURES INCLUDE:

- Ridged design for longevity
- Carbide Teeth
- 1/4" Water Ports
- Hard-Facing throughout body
- Designed to fit: Vermeer®, Ditch Witch®, American Augers®, Straightline®

OPTIONS:

- Carbide Embedding



WINGED CUTTER



DESIGNED FOR USE IN:
SAND, CLAY, LIGHT SHALE
AND CALICHE

FEATURES INCLUDE:

- Ridged design for longevity
- Carbide Teeth
- 1/4" Water Ports
- Hard-Facing throughout body
- Designed to fit: Vermeer®, Ditch Witch®, American Augers®, Straightline®

OPTIONS:

- Jets in Blades

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SOLID FLUTED REAMER



DESIGNED FOR USE IN:
SAND, SOFT SOILS AND
COBBLE



FEATURES INCLUDE:

- Precisely machined solid-body core made from heavy duty abrasion-resistant alloy
- Cuts and packs in the widest variety of ground conditions
- Deeper, wider flutes pump fluids to product and allow for better pressure and flow control
- Cross-over adapters are available to fit nearly all machines
- Size range from 3" up to 12"

OPTIONS:

- Built-in swivel or static lug bolt-on plate

WOLVERINE REAMER

Available
with
Built-in Swivel!



DESIGNED FOR USE IN:
SAND, COBBLE AND HARD-PAN



FEATURES INCLUDE:

- Ridged design for longevity
- Carbide Teeth
- 5/16" or 3/8" Water Ports
- Hard-Facing throughout body
- Designed to fit: Vermeer®, Ditch Witch®, American Augers®, Straightline®

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SAFETY PRODUCTS

Do you want to make your job site safer? As a continuing desire to increase our product line to serve our customers better, we would appreciate your input. Give us a call today and let us know which products will help your crew stay safe!



Rags for your jobsite and shop!



All White Cotton
\$32.25 for 25Lb Box!



PART NO.	DESCRIPTION
203031	Blue Marking Paint
203034	Yellow Marking Paint
203035	Orange Marking Paint
203038	Red Marking Paint
203039	White Marking Paint
1834838	Green Marking Paint
1861838	Pink Marking Paint
1868838	Purple Marking Paint

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SLINGS



Possible varieties - Cable size, # of Legs, and length of legs...

STOCK ITEMS!

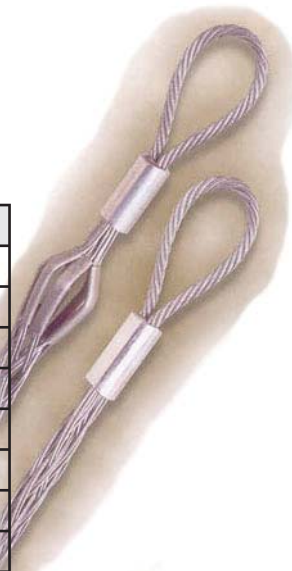
CABLE	# OF LEGS
1/4"	2,3,4
5/16"	2,3,4
3/8"	2,3,4



* ADDITIONAL LEGS ARE AVAILABLE FOR PURCHASE UPON REQUEST.

CABLE GRIPS

TYPE	PART NO.	SIZES
Double Weave	A-DW-24	1/4" - 1-1/4" - 24" L
	AA-DW-18	1/2" - 3/4" - 18" L
	AA-DW-24	1/2" - 3/4" - 24" L
Triple Weave	B-TW-32	1-1/4" - 2"
	C-TW-38	2" - 2-3/4"
	D-TW-46	2-3/4" - 3-1/2"
	E-TW-46	3-1/2" - 4-1/4"
	F-TW-52	4-1/4" - 4-7/8"



SHACKLES



PART NO.	DESCRIPTION
LA03	3/8" Shackle 1-1/2 Ton Painted Carbon
LA04	7/16" Shackle 2 Ton Painted Carbon
LA05	1/2" Shackle 3 Ton Painted Carbon
LA06	5/8" Shackle 4-1/2 Ton Painted Carbon
LA07	3/4" Shackle 6-1/2 Ton Painted Carbon
LA08	7/8" Shackle 8-1/2 Ton Painted Carbon
LA09	1" Shackle 10 Ton Painted Carbon
LA13	1-1/2" Shackle 17 Ton Painted Carbon
LA14	1-3/4" Shackle 25 Ton Painted Carbon
LA15	2" Shackle 35 Ton Painted Carbon

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ARMADILLO REAMER



DESIGNED FOR USE IN:
SANDSTONE, SOFT LIMESTONE,
SHALE, CALICHE, GLACIAL TILL,
COBBLE, GRAVEL, PACKED CLAYS,
AND COMPACTED SOILS



FEATURES INCLUDE:

- Solid Steel design for extreme soil conditions
- 4-6 rows of Carbide Teeth depending on reamer size
- 1/4" up to 5/16" Water Ports
- Hard-Facing throughout body
- Very gradual taper to slowly open up the hole in extreme conditions
- Designed to fit: Vermeer®, Ditch Witch®, American Augers®, Straightline®

OPTIONS:

- Teeth, Length of body, Pulling Eye, Thread connection or Built-in Swivel on product end



TURBO REAMER



DESIGNED FOR USE IN:
CLAY

FEATURES INCLUDE:

- Thick Carbide imbedded in blades for longevity
- Open, fluted design for mixing and chopping action
- 1/4" to 5/16" Water Ports
- Hard-Facing throughout body
- Designed to fit: Vermeer®, Ditch Witch®, American Augers®, Straightline®

OPTIONS:

- Built-in Swivel

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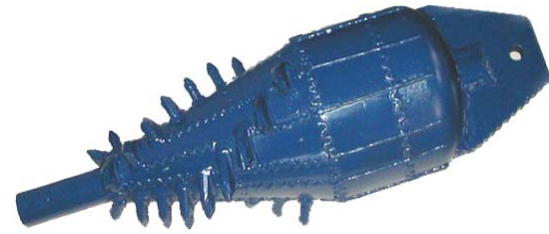


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PACKER REAMER



DESIGNED FOR USE IN:
SAND, SOFT SOILS, COBBLE
AND HARD-PAN

FEATURES INCLUDE:

- Heavy Walled steel design
- Carbide Teeth
- 1/4" up to 5/16" Water Ports
- Hard-Facing throughout body
- Designed to fit: Vermeer®, Ditch Witch®, American Augers®, Straightline®

OPTIONS:

- Customized Extra Long Taper
- Carbide Embedding in place of Hard-Facing

HOLLOW FLUTED REAMER



DESIGNED FOR USE IN:
SAND, LOAMY SAND/CLAY,
COMPACTED SOILS



FEATURES INCLUDE:

- Deeper Flutes than Standard Solid Fluted Reamers for better Circulation.
- Hard-facing throughout Body.
- Light-Weight, Durable Heavy-Walled Steel Design

OPTIONS:

- Nozzles and Nozzle Diameter
- Teeth
- Length of Coned Body (Gradual-tapered body for tough conditions)
- Pulling Eye, Thread Connection, or Built-In Swivel on Product end of Reamer.



PULLERS



Mudtight Gold The Ultimate Duct Puller!

- Excludes bentonite at pressures up to 2400 psi.*
- Accommodates a range of wall thicknesses.
- Minimal outside diameter.
- Patented seal on the inside of the pipe.
- Tensile tested to the yield strength of the pipe.*
- Pressure tight to pipe bursting.* Protects the end of the pipe.
- High tensile drop forged eyebolts.
- Standard rear eye to retain the tail.
- Available from 1" to 12" IPS
- Quick and easy fit.

* Dependent on size and prevailing conditions.

PIPE SIZE	GRIP		SEALS SMALL END	SEALS LARGE END
	MIN.	MAX.	SDR	SDR
1.25"	1.18	1.68	9.33-11.00	13.50-D
1.50"	1.39	1.92	11.00 - 13.50	17.00-D
2"	1.68	2.40	9.33 - 11.00	S40, 17.00, 21.00
2.5"	2.24	2.90	11.00 - 13.50	17.00 - 21.00
3"	2.55	3.52	9.33 - 11.50	13.50 - 21.00
4"	3.31	4.52	9.33 - 11.00	13.50 - 21.00
5"	4.29	5.61	11.00 - 13.50	17.00 - 21.60
6"	5.20	6.69	11.00 - 13.50	17.00 - 26.00

* O' rings expand to more than the Max. dimension but cannot be relied upon to give a pressure tight.

STANDARD PULLERS

PIPE SIZE	MIN.	MAX.	SDR
1.25"	1.24	1.54	SDR9-SHD D
1.50"	1.42	1.65	11 - 17
2"	1.85	2.24	11 - 21
2.50"	2.28	2.76	11 - 21
3"	2.76	3.27	11 - 21
4"	3.54	4.02	11 - 21
5"	4.33	5.16	11 - 21
6"	5.28	6.06	11.5 - 21
8"	6.77	7.68	11 - 17
10"	8.43	9.65	11 - 17
12"	10.00	11.02	11 - 17



Standard Towing Head

THE ORIGINAL EXPANDING TOWING HEAD

- High Tensile Drop Forged Eye Bolts.
- Proven tooth profile for high gripping power.
- Aluminium noses above 4"
- 1 1/4" to 12" IPS Sizes with rear eyes.



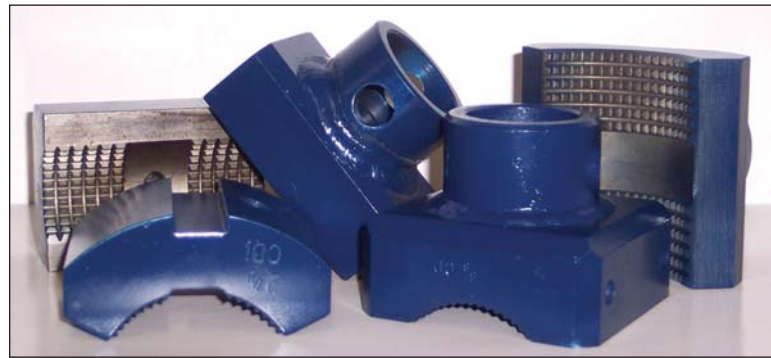
REPLACEMENT JAW BLOCKS & INSERTS



A cost-effective alternative to your break-out system.
Replace the insert for a fraction of the cost.
Save wear on your drill rod and your wallet!

PART NO	DESCRIPTION	REQUIRED INSERTS
70-001	Jaw Block D7/11	7032ST
70-002-C	Jaw Block Cylinder Side D7/11	7032ST
70-003	Jaw Block D24/40, D33/44	7077ST, 7078ST
70-004	Jaw Block D40/40	7077ST
70-005-C	Jaw Block D50/100, D80/100 (3.5 VM)	1601

INSERT NOT LISTED? - GIVE US A CALL!
WE HAVE OTHER INSERTS FOR JT2720 AT (1628), JT7020 (1602), AND AMERICAN AUGER INSERTS DD4 (1592), DD5&DD6 (1593)



PART NO	DESCRIPTION
CU-9874	Jaw Die D7/11
CU-9874C	Jaw Die Cylinder Side D7/11
CU-9875	Jaw Die D16/20
CU9875C	Jaw Die Cylinder Side D16/20
CU-9879	Jaw Die D24/26
CU-9872	Jaw Die D24/40
CU-9872C	Jaw Die D40/40
CU-9871	Jaw Die D50/100-2.875
CU-9870	Jaw Die D50/100-3.5, D80/100
CU-2022	Jaw Die D18/22, D20/22 - 2.06 Rod
CU-2022C	Jaw Die Cylinder Side D18/22, D20/22

Custom Blocks
available upon
request!

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ROLLER CONE REAMER



Rigid Roller Cone Reamers

Designed for your toughest
Rock jobs! They will increase your
production rates and reduce wear
on your drill rigs. We will manufacture
your reamer with new or used bits
and tungsten carbide inserts (TCI)
or Mill Tooth (MT) cutters.

Customized
for your
hardest bores!

DESIGNED FOR USE IN:
ROCK, COBBLE AND CALICHE



FEATURES INCLUDE:

- Ridged design for longevity
- Jetted Water Port
- Carbide teeth in back
- Designed to fit: Vermeer®, Ditch Witch®, American Augers®, Straightline®

OPTIONS:

- Milltooth or TCI; Re-Runs or New
- Barrel on back

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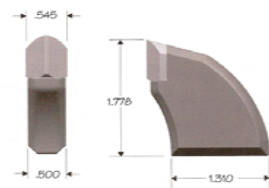


CARBIDE REPLACEMENT TEETH

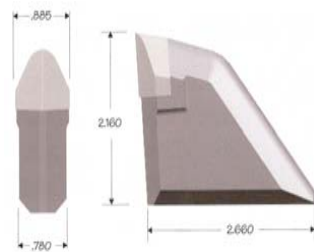
COLLARS & STARTER RODS



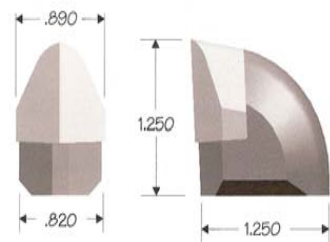
SH1654



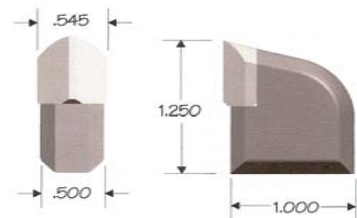
SH300



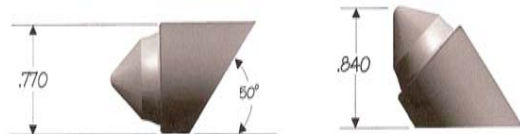
SH300-250



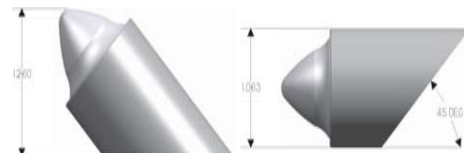
SH1250-50



C1340-01



2860



PART NO.	DESCRIPTION
SH1654	Shark Tooth, 1/2" W x 1-3/4" H x 1-3/4" L
SH300	Large Shark Tooth, 7/8" W x 2-1/4" H
SH300-250	Large Shark Tooth, 7/8" W x 1-1/4" H x 1-1/4" L
SH1065-50	Shark Tooth, 1/2" W x 3/4" H x 1" D
SH1250-50	Shark Tooth 1/2" W x 1-1/4" H x 1" D
CONICAL	
CMM4	Bullet Tooth, 3/4" x 2-1/8"
C23	Bullet Tooth, 1" x 3-5/16"
CF850	Flat Rocket, 27/32" H x 3/4" W
C1340-01	50° Angled, 7/8" H x 3/4" Dia.
2860	45° Angled, 1-1/4" H x 1.06" Dia.
SHANK TEETH	
U7L	1.05" x 3.88" Core Barrel Shark Style
CJ2	3/4" x 4" Core Barrel
604C	1" x 3-7/8"
CB10	1" x 2-9/16"

Other teeth available! Just ask!



OCTAGON COLLARS



PART NO	DESCRIPTION
HC2-4	Hex Collar 2" x 4", D6, D7/11, D10/15
HC2-6P	Hex Collar 2" x 6" D6, D7/11, D10/15
HC2-6H	Hex Collar 2" x 6" Hard-Faced, D6, D7/11, D10/15
HC2-6T	Hex Collar 2" x 6" Hard-Faced w/Teeth D6, D7/11, D10/15
HC212-6P	Hex Collar 2 1/2" x 6" D16/20, D24/26, D24/40
HC212-6H	Hex Collar 2 1/2" x 6" Hard-Faced, D16/20, D24/26, D24/40
HC212-7.5P	Hex Collar 2 1/2" x 7.5" D16/20, D18/22, D20/22, D24, D24/33, D24/40, D33/44, D40/40
HC212-7.5H	Hex Collar 2 1/2" x 7.5" Hard-Faced, D16/20, D18/22, D20/22, D24, D24/33, D24/40, D33/44, D40/40
HC212-7.5T	Hex Collar 2 1/2" x 7.5" Hard-Faced w/ Teeth, D16/20, D18/22, D20/22, D24, D24/33, D24/40, D33/44, D40/40
RAILHEAD® HEX COLLARS	
RH1108	4-1/4" OD x .625" Wall 3" Hex
RH1113	4-1/4" OD x .625" Wall 3" Hex with Carbide Buttons
OCTAGON COLLARS	
OC2	2" x 4" EZ-2 Octagon Collar, Fits JT820, JT920, JT920L
OC2H	2" x 4" (Hard-Faced) EZ-2 Octagon Collar, Fits JT820, JT920, JT920L
OC212	3" x 5" EZ-2 Octagon Collar, Fits JT1720, JT2720
OC212H	3" x 5" (Hard-Faced) EZ-2 Octagon Collar, Fits JT1720, JT2720
OC212T	3" x 5" (Hard-Faced w/Teeth) EZ-2 Octagon Collar, Fits JT1720, JT2720

Carson Underground can supply you with a whole range of Navigator® and Jettrac® replacement Starter Rods. All of these products are precision machined of 4140 alloy, quench and temper hardened to prolong the life of the part on Directional Drills.

PART NO	DESCRIPTION
SR200	2" LP, D6-D7/11, D10/15, 1.66FS Starter Rod
SR250	2 1/8" LP, D16/20, D18/22 1.90FS Starter Rod
SR400	2 1/8" LP, D24, D18/22-2.06, D20/22 2.06FS Starter Rod
SR600	2 1/8" LP, D24/40, D40/40 2-3/8FS Starter Rod Standard
SR600-1	2 1/8" LP, D24/40, D40/40 2-3/8FS Starter Rod 28" S to S
JETTRAC® TO NAVIGATOR®	
SR1720	1720DW Pin x 2-1/8" LP Box, Starter Rod (Quick Connect)
SR2720	2720DW Pin x 2-1/8" LP Box, Starter Rod (Quick Connect)
RAILHEAD®	
RH1233	2720DW Pin x 2-1/2" Ramon Hex, Starter Rod
RH1249	600FS Pin x 2-1/2" Ramon Hex, Starter Rod

STARTER RODS



EXTENSION & TRANSITION SUBS



LONGER ADAPTERS ENABLING YOU TO BRING YOUR TOOLING INTO MACHINE JAWS FOR FASTER, EASIER BREAK-OUTS!

PART NO	DESCRIPTION
CO5PX9B-L	2-3/8" FS Box x 2-3/8" IF Pin
CO19PX9B-L	2-3/8" FS Box x 2-3/8" API Reg Pin
CO17PX10B-L	3-1/2" FS Box x 2-7/8" IF Pin
CO31PX10B-L	3-1/2" FS Box x 3-1/2" IF Pin
CO17PX11B-L	2-7/8" FS Box x 2-7/8" IF Pin
CO31PX11B-L	2-7/8" FS Box x 3-1/2" IF Pin



EZII Quick Disconnect for your Jettrack® Rigs!



DITCH WITCH® EZ CONNECT TRANSITION SUBS

PART NO	DESCRIPTION
CU369-242	JT2720 DW Pin x Box, Transition Sub®, Direct
CU520EZII	JT520 DW Pin x 1.31-6 EZII Pin, EZ-Connect Transition Sub® Coming Soon!
CU920EZII	JT920, JT921 DW Pin x 1.63-6 EZII Pin, EZ-Connect Transition Sub®
CU1220EZIII	JT1220 M1 DW Pin x 1.88-6 EZIII Pin, EZ-Connect Transition Sub® Coming Soon!
CU1720EZII	JT1720 DW Pin x 2.00-6 EZII Pin, EZ-Connect Transition Sub®
CU2020EZII	JT2020 M1 DW Pin x 2.00-6 EZII Pin, EZ-Connect Transition Sub® Coming Soon!
CU2720EZII	JT2720 DW Pin x 2.00-6 EZII Pin, EZ-Connect Transition Sub®
CU2720MIEZII	JT2720 MI DW Pin x 2.25-6 EZII Pin, EZ-Connect Transition Sub®

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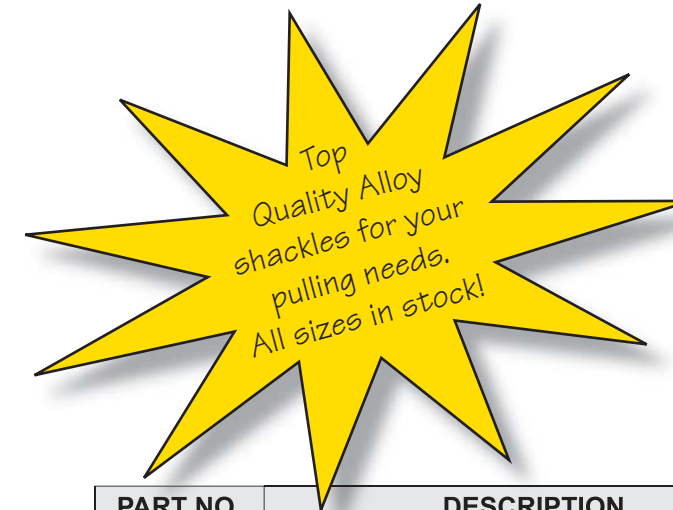


PULLING EYES/ROD RECYCLERS & ALLOY SHACKLES

FOR USE BEHIND REAMERS, TO ATTACH SWIVEL WHEN PULLING DUCT OR TRAILING DRILL ROD. WE BUILD ANY CUSTOM PULLING EYE! ALL WE NEED TO KNOW IS: WHAT BRAND OF SWIVEL ARE YOU USING, AND WHAT THREAD CONNECTION DO YOU NEED? AVAILABLE PIN OR BOX.



PART NO.	DESCRIPTION
PE8.5K	Pulling Eye, 8,500 LB
PE10K	Pulling Eye, 10,000 LB
PE20K	Pulling Eye, 20,000 LB
PE30K	Pulling Eye, 30,000 LB
PE40K	Pulling Eye, 40,000 LB
PE45K	Pulling Eye, 45,000 LB
PE60K	Pulling Eye, 60,000 LB
PE80K	Pulling Eye, 80,000 LB
PE90K	Pulling Eye, 90,000 LB
PE120K	Pulling Eye, 120,000 LB



Top Quality Alloy shackles for your pulling needs. All sizes in stock!

PART NO.	DESCRIPTION
LA03	3/8" Shackle 1-1/2 Ton Painted Carbon
LA04	7/16" Shackle 2 Ton Painted Carbon
LA05	1/2" Shackle 3 Ton Painted Carbon
LA06	5/8" Shackle 4-1/2 Ton Painted Carbon
LA07	3/4" Shackle 6-1/2 Ton Painted Carbon
LA08	7/8" Shackle 8-1/2 Ton Painted Carbon
LA09	1" Shackle 10 Ton Painted Carbon
LA13	1-1/2" Shackle 17 Ton Painted Carbon
LA14	1-3/4" Shackle 25 Ton Painted Carbon
LA15	2" Shackle 35 Ton Painted Carbon



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CROSS-OVERS

All Crossovers are precision machined of 4140 alloy, quench and temper hardened. Crossovers can be threaded with any configuration, either, with or without flat, any length. We stock a complete assortment of sizes.

Too many to list... available American Auger®/ Case®/ Mayhew Jr and many more Vermeer® and JetTrac®



CROSSOVERS / ADAPTERS	
JETTRAC® X API Jettrac® : 2720	NAVIGATOR® X NAVIGATOR®
2-3/8" IF Pin x JT2720 Pin	2-3/8" Vermeer® Box x 1.90" Vermeer® Pin
2-7/8" IF Pin x JT2720 Pin	2-3/8" Vermeer® Box x 2.06" Vermeer® Pin
Jettrac® : 4020	2-3/8" Vermeer® Pin x 2-3/8" Vermeer® Pin
2-7/8" Reg. Box x 4020 Box	2-3/8" Vermeer® Pin x 2-3/8" Vermeer® Box
2-7/8" Reg. Pin x JT4020 Pin	2-3/8" Vermeer® Box x 2-7/8" Vermeer® Pin
2-7/8" IF Pin x JT4020 Pin	2-3/8" Vermeer® Pin x 2-1/8" LP Box
3-1/2" IF Box x JT4020 Box	2-7/8" Vermeer® Pin x 2-3/8" Vermeer® Pin
3-1/2" IF Pin x JT4020 Pin	2-7/8" Vermeer® Box x 2-3/8" Vermeer® Pin
Jettrac® : 7020	3-1/2" Vermeer® Box x 2-3/8" Vermeer® Pin
2-7/8" Reg. Box x JT7020 Box	3-1/2" Vermeer® Box x 2-3/8" Vermeer® Box
2-7/8" Reg. Pin x JT7020 Pin	3-1/2" Vermeer® Box x 2-7/8" Vermeer® Pin
3-1/2" IF Box x JT7020 Box	3-1/2" Vermeer® Box x 2-7/8" Vermeer® Box
3-1/2" IF Pin x JT7020 Pin	3-1/2" Vermeer® Box x 3-1/2" Vermeer® Box
Jettrac® x Jettrac®	3-1/2" Vermeer® Pin x 2-3/8" Vermeer® Box
JT4020 Pin x JT2720 Box	3-1/2" Vermeer® Pin x 2-7/8" Vermeer® Pin
JT4020 Pin x JT2720 Pin	3-1/2" Vermeer® Pin x 2-7/8" Vermeer® Box
JT4020 Pin x JT4020 Pin	3-1/2" Vermeer® Pin x 3-1/2" Vermeer® Pin
Jettrac® x Vermeer®	Vermeer® x API D24/40A / D40/40
2-3/8" Vermeer® Pin x JT1720 Pin	2-1/8" LP Pin x 2-3/8" Reg. Pin
2-1/8" LP Pin x JT2720 Pin	2-3/8" Vermeer® Pin x 2-3/8" IF Pin
2-3/8" Vermeer® Pin x JT2720 Box	2-3/8" Vermeer® Pin x 2-3/8" IF Box
2-3/8" Vermeer® Pin x JT2720 Pin	2-3/8" Vermeer® Pin x 2-7/8" IF Pin
2-3/8" Vermeer® Box x JT2720 Pin	2-3/8" Vermeer® Pin x 2-7/8" Reg. Box
2-3/8" Vermeer® Pin x JT2720 EZ Pin	2-3/8" Vermeer® Pin x 2-7/8" Reg. Pin
2-3/8" Vermeer® Pin x JT4020 Pin	2-3/8" Vermeer® Pin x 3-1/2" IF Box
2-3/8" Vermeer® Box x JT4020 Box	2-3/8" Vermeer® Box x 2-3/8" IF Pin
2-3/8" Vermeer® Pin x JT4020 EZ Pin	2-3/8" Vermeer® Box x 2-3/8" Reg. Pin
2-3/8" Vermeer® Pin x JT4020 EZ Box	2-3/8" Vermeer® Box x 2-7/8" Reg. Box
2-3/8" Vermeer® Box x JT4020 Pin	2-3/8" Vermeer® Box x 2-7/8" IF Pin
2-3/8" Vermeer® Box x JT7020 Pin	2-3/8" Vermeer® Box x 2-7/8" Reg. Pin
2-7/8" Vermeer® Box x JT4020 Pin	2-3/8" Vermeer® Box x 3-1/2" IF Pin
2-7/8" Vermeer® Box x JT7020 Pin	LONG CROSSOVERS
3-1/2" Vermeer® Pin x JT4020 Pin	3-1/2" IF x 800FS
3-1/2" Vermeer® Pin x JT7020 Pin	2-7/8" IF x 800FS
3-1/2" Vermeer® Box x JT4020 Box	2-3/8" IF x 600FS
3-1/2" Vermeer® Box x JT7020 Pin	



DRIVE CHUCKS & SUB-SAVERS

DRIVE CHUCKS

Manufactured using solid, one-piece 4140 material.



PART NO	DESCRIPTION
DC200-1	1.66FS - 6" S to S, *D6, D10/15, D7/11, D14
DC250-1	1.90FS - 7" S to S, *D16/20, D18/22-1.9
DC250-2	1.90FS - 11" S to S, (1 Piece) *D16/20, D18/22-1.9 *Does not require Sub-Saver
DC400-1	2.06FS - 7" S to S, *D24, D18/22-2.06, D20/22
DC400-2	2.06FS - 11" S to S, (1 Piece) *D24, D18/22-2.06, D20/22 *Does not require Sub-Saver
DC600-1	2-3/8FS - 6-1/2" S to S, *D24/40, D40/40
DC600-2	2-3/8FS - 13-1/2" S to S, (1 Piece) *D24/40 *Does not require Sub-Saver
DC800-1	3-1/2FS - 7-1/2" S to S *D50/100-3.5, D80/100
DC800-2	3-1/2FS - 5" S to S, *D50/100-3.5, D80/100
DC900-1	2-7/8FS - 7-1/2" S to S *D50-100-2.875
DC900-2	2-7/8FS - 5" S to S, *D50-100-2.875
JETTRAC®	
DC520	<i>Coming Soon!</i>
DC920	6-1/2" OAL, Drive Chuck
DC1220	<i>Coming Soon!</i>
DC1720	6-1/2" OAL, Drive Chuck
DC2020	<i>Coming Soon!</i>
DC2720	9-7/8" OAL, Drive Chuck
DC4020	9-1/2" OAL, Drive Chuck
DC7020	24-1/2" OAL, Drive Chuck



SUB-SAVERS

All subs are precision machined of 4140 alloy, quench and temper hardened. Designed for prolonging life of Drive Chucks on Directional Drills. *Custom Subs can be built upon request!*



PART NO	DESCRIPTION
SS200-1	Sub-Saver 1.66FS Pin x Box - *D6, D10/15, D7/11, D14 (4") S to S
SS250-1	Sub-Saver 1.90FS Pin x Box - *D16/20, D18/22-1.9 (4") S to S
SS400-1	Sub-Saver 2.06FS Pin x Box - *D24, D18/22-2.06 (4") S to S
SS600-1	Sub-Saver 2-3/8FS Pin x Box - *D24/40 (5-1/2") S to S
SS600-2	Sub-Saver 2-3/8FS Pin x Box - *D24/40, (7") S to S
SS600-4	Sub-Saver 2-3/8FS Pin x Box - *D40/40, (8-3/4") S to S
SS600-5	Sub-Saver 2-3/8FS Pin x Box - *D24/40II, (9-1/2") S to S
SS600-6	Sub-Saver 2-3/8FS Pin x Box - *D24/40II, (13") S to S
SS800-1	Sub-Saver 3-1/2FS Pin x Box - *D50/100-3.5, D80/100 (8") S to S
SS800-2	Sub-Saver 3-1/2FS Pin x Box - *D50/100-3.5, D80/100 (6") S to S
SS900-1	Sub-Saver 2-7/8FS Pin x Box - *D50/100-2.875 (7-1/4") S to S
SS900-2	Sub-Saver 2-7/8FS Pin x Box - *D50/100-2.875 (5-1/4") S to S
SS178	Sub-Saver 1 7/8" AWJ Pin x Box -*UTI 6A
SS2IF	Sub-Saver 2" IF Pin x Box - *DD25, *UTI 12A
SS278IF	Sub-Saver 2-7/8" IF Pin x Box