



Design & Manufacturing Ltd.

Horizontal Directional Drilling & Cable Installation Tools



HDD Pullback Swivels



Swivels & Connectors



Pulling & Support Grips



Cable Pulling Eyes



Duct Installation & Proofing



Manhole Tools



Cable Pulling Lubricants



Cable Pullers



Duct Rodders



Line Blowing



Overhead Products



ISO Certified



Design & Manufacturing Ltd.

At DCD Design & Manufacturing Ltd., we produce high quality Cable Installation, Directional Drilling, and Overhead Line Stringing Tools. DCD Design is driven by our customers' needs and by our own commitment to service those customers. Every effort is made to provide customers with the product they need, when they need it.

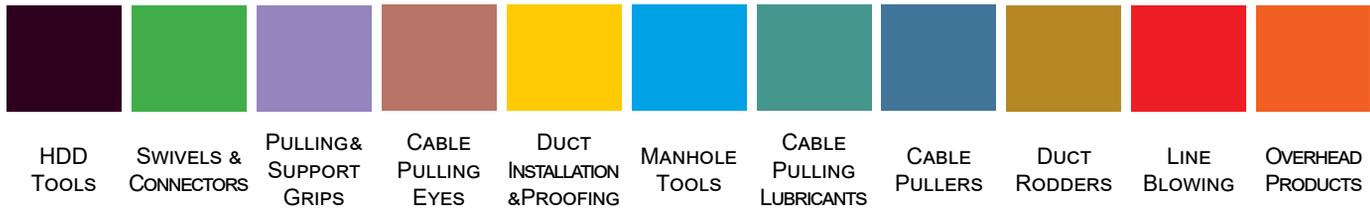
We maintain our inventory levels to satisfy 99% of orders without delay, and 90% of orders are shipped on the same day. From our integrated Sales and Engineering office, we offer the fastest turn-around in the industry to meet your shipping deadlines.

We are constantly working to supply a high-quality product at a competitive price, and to this end all our products are fully tested and come with a six-month guarantee (90 days for horizontal directional drilling products).

On November 10, 2009, we became ISO 9001:2008 certified and this emphasizes our commitment to superior product quality and customer service.

Utilities, contractors, distributors and competitors alike, recognize the high standards set by our customer service and the products we manufacture. Customers realize that help with field problems, the ability to react to a new need and that extra effort required to help GET THE JOB DONE are all part of the DCD commitment.

PRODUCT CATEGORIES



DCD CABLE INSTALLATION TOOLS

This 2016 Catalog combines our Cable Installation and Overhead Tools with our Horizontal Directional Drilling catalog to give our customers a single point of reference for all their utility installation requirements. Overhead, underground, through ductwork or dirt – DCD Design has a tool for your application.

DCD Design has been producing Cable Installation tools since 1986, and we have expanded our selection in recent years to include Manhole Tools, Cable Blowing projectiles, and the revolutionary Tube-Lube 326 Cable Pulling Lubricant.

Our distinctive stainless steel Line Swivels offer the most standard features of any overhead or underground line stringing swivels, and our unique Power-Grips have been applied internationally to off-shore wind turbine cable installations.

The DCD DUB-Swivels and Maxi DUB-Swivels are a benchmark in the Horizontal Directional Drilling industry. We patented the "Harsh Environment Swivel" in 1996, and we've delivered thousands of quality products since then. When a "pullback went smoothly," a DUB-Swivel was there, connecting the drill string to the final product.

And most recently, the Overhead Tools division has brought the Lineman and Eagle Lashers to DCD Design. Since the 1940's, the Neale and Cable Spinning Equipment Company were producing aerial cable lashers for telecom and power applications. DCD Design continues the tradition with the proven Lineman lasher and the advanced Eagle lasher.

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DUB-LITE®

00503 SERIES

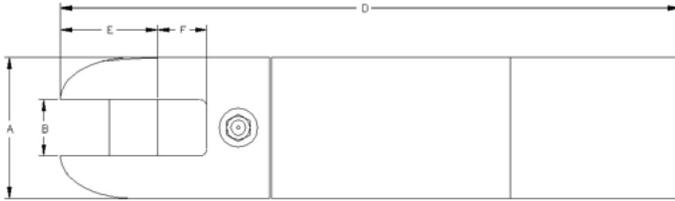
DUB-Lite swivels feature a multiple sealing system which is progressive in design and application. Swivels 00503-X04 to 00503-X15 include a side mounted grease nipple for easy access without having to remove the clevis pin. Greasing should be done after each use.

The DUB-Lite® swivels utilize angular contact bearings for both pullback and pushback functions. All mechanical components are manufactured from high strength alloy steel and are designed to withstand a straight tensile load of at least 3 times the safe working load. The simplicity of this swivel allows field re-building, and a re-build kit comprised of bearings and seals is available.

The DCD Clevis Pin is specifically designed, machined and heat treated to provide the required strength and stability of the clevis. The clevis pins are hardened steel and are available as replacement kits. These clevis pins must not be replaced with simple hexagon bolts.

TYPE 1 - API BOX / CLEVIS

Type 1 swivels offer an API box connection at the leading end and a clevis connection at the trailing end. The rigid connection allows more straight forward pushback, but it also places a greater side load on the swivel.



Part No.	5:1 Safe Working Load	Ultimate Load	Box Thread	A	B	C	D	E	F	Weight
00503-108-21F	15,000 LB	45,000 LB	2" IF API	2-1/2"	1"	7/8"	11-1/8"	1-3/4"	7/8"	10.1 LB



165 Ton Maxi DUB-Swivel in use.

DUB-LITE®

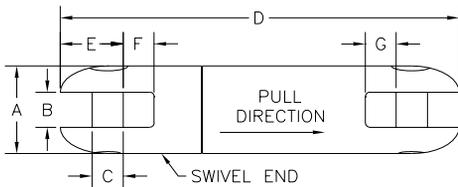
00503 SERIES

TYPE 2 - CLEVIS / CLEVIS

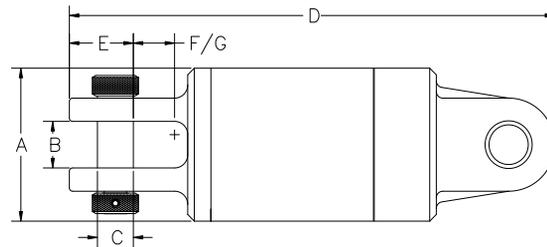
The clevis/clevis style of swivel is the most common type and is the best for distributing side loads applied on the swivel due to its ability to pivot at either end. It does not allow the operator to push back without proper care and attention or the swivel may fold back on itself. Before rotation is re-commenced, the line must be pulled straight or damage may occur to the swivel, as well as potential harm to nearby operators.

DCD recommends that some type of restrictor be used to prevent the swivel from pivoting at the front or reamer end. For swivels 00503-204 to 00503-215, the clevis is deeper at the leading end to allow the fool-proof design of a lug that would prevent more than minimal movement of the swivel away from the axis of rotation and also ensures the swivel is pulled in the right direction.

It is our recommendation to always select a swivel larger than the machine capacity. For more information, see bottom half of page 8.



00503-204 to 00503-215



00503-220 to 00503-245

Part No.	3:1 Safe Working Load	Ultimate Load	A	B	C	D	E	F	G	Weight	Clevis Pin Kits	Re-Build Kits
00503-204	8,500 LB	25,500 LB	2"	3/4"	11/16"	8-3/4"	1-3/8"	5/8"	3/4"	5.0 LB	00035-HEX	00503-K04
00503-205	10,000 LB	30,000 LB	2-1/4"	7/8"	3/4"	9-5/8"	1-1/2"	3/4"	7/8"	7.0 LB	00037-HEX	00503-K05
00503-208	15,000 LB	45,000 LB	2-1/2"	1"	7/8"	11-1/4"	1-3/4"	7/8"	1"	10.1 LB	00040-HEX	00503-K08
00503-210	20,000 LB	60,000 LB	2-1/2"	1"	7/8"	11-7/8"	1-3/4"	7/8"	1"	10.7 LB	00040-HEX	00503-K10
00503-215	30,000 LB	90,000 LB	3"	1-5/16"	1-1/8"	14"	2-1/4"	1-1/8"	1-1/4"	17.3 LB	00045-HEX	00503-K15
00503-220	40,000 LB	120,000 LB	4-3/4"	1-3/4"	1-1/8"	16-1/2"	2-1/16"	1-7/16"	N/A	49.0 LB	00508-015	-
00503-230	60,000 LB	180,000 LB	5-3/4"	1-3/4"	1-3/8"	18-1/4"	2-1/2"	1-7/16"	N/A	76.0 LB	00508-020	-
00503-245	90,000 LB	270,000 LB	6"	1-3/4"	1-3/8"	19-3/8"	2-1/2"	1-7/16"	N/A	88.0 LB	00508-020	-

See our Videos page on our Website for more information!

DUB-Lite is a Registered Trade Mark

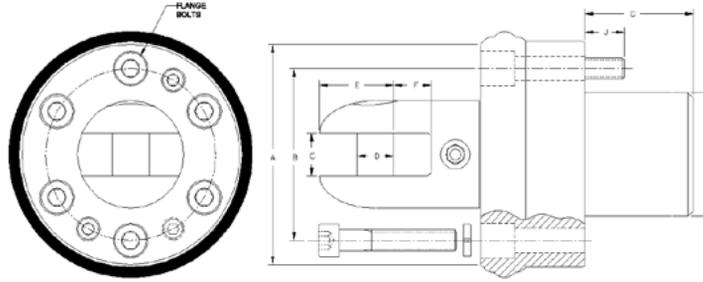


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DUB-LITE®

TYPE 6 - FLANGE / CLEVIS

This style is intended to be mounted internally into a back reamer using a bolt flange. Hard surfacing is applied around the perimeter for extra durability. This type of swivel permits pushback without any fold-back possibility.

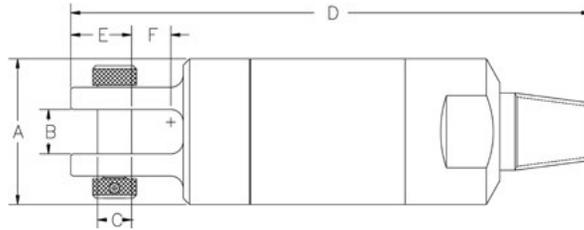


Part No.	3:1 Safe Working Load	Ultimate Load	A	B	C	D	E	F	G	H	J	FLANGE BOLTS	Weight
00503-610	20,000 LB	60,000 LB	5-1/4"	4"	1"	7/8"	1-3/4"	7/8"	2-9/16"	2-7/8"	1"	6 x 1/2" UNC	20.5 LB
00503-615	30,000 LB	90,000 LB	5-1/4"	4"	1-5/16"	1-1/8"	2-1/4"	1-1/8"	3-1/8"	2-7/8"	1"	6 x 1/2" UNC	24.5 LB
00503-620	40,000 LB	120,000 LB	8"	6-7/8"	1-3/4"	1-1/8"	2-1/16"	2"	4"	4-3/4"	1-1/4"	6 x 1/2" UNC	51 LB
00503-630	60,000 LB	180,000 LB	8"	6-7/8"	1-3/4"	1-1/8"	2-1/16"	2"	4-7/8"	5-3/4"	1-1/4"	6 x 1/2" UNC	66 LB

DUB-LITE®

TYPE 7 - CLEVIS / PIN

Type 7 swivels offer a pin connection to the reamer or hole-opener ahead of the swivel. There are several different types and sizes of threaded connections, see the chart for details. The rigid connection allows more straightforward pushback, but it also places a greater side load on the swivel.



Part No.	3:1 Safe Working Load	Ultimate Load	Male Pin Threads	A	B	C	D	E	F	Weight
00503-705-21M	10,000 LB	30,000 LB	2" IF API	2-1/2"	7/8"	3/4"	11-5/16"	1-1/2"	3/4"	9.9 LB
00503-710-21M	20,000 LB	60,000 LB	2" IF API	2-1/2"	1"	7/8"	12-11/16"	1-3/4"	7/8"	12.6 LB
00503-710-23M	20,000 LB	60,000 LB	2-3/8" REG API	3-1/4"	1"	7/8"	13-7/8"	1-3/4"	7/8"	13.0 LB
00503-715-23M	30,000 LB	90,000 LB	2-3/8" REG API	3-1/4"	1-5/16"	1-1/8"	15"	2-1/4"	1-1/8"	20.8 LB
00503-720-23M	40,000 LB	120,000 LB	2-3/8" REG API	4-3/4"	1-3/4"	1-1/8"	17-1/2"	2-1/16"	1-7/16"	55 LB
00503-730-27M	60,000 LB	180,000 LB	2-7/8" IF API	5-3/4"	1-3/4"	1-3/8"	19-9/16"	2-1/2"	1-7/16"	88 LB
00503-745-27M	90,000 LB	270,000 LB	2-7/8" IF API	6"	1-3/4"	1-3/8"	20-3/4"	2-1/2"	1-7/16"	100 LB
00503-715V	30,000 LB	90,000 LB	2.06-8 VERMEER® STARTER ROD	3"	1-5/16"	1-1/8"	15-3/8"	2-1/4"	1-1/8"	19.4 LB

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DUB-IN™

00504 SERIES

This series of built-in swivels is designed to act as a replacement for the original swivel fitted to reamers manufactured by the leading OEMs.

Several OEMs offer reamers with a pocket to mount a bolt flange style swivel; others offer reamers with a female threaded pocket to mount a screw in swivel which is then secured with a hexagon collar. However, swivels are not their leading product, directional drilling machines are. DCD Design & Manufacturing is in the business of designing and building swivels and the products shown on this page all offer substantial improvements over the OEM product.

Features include:

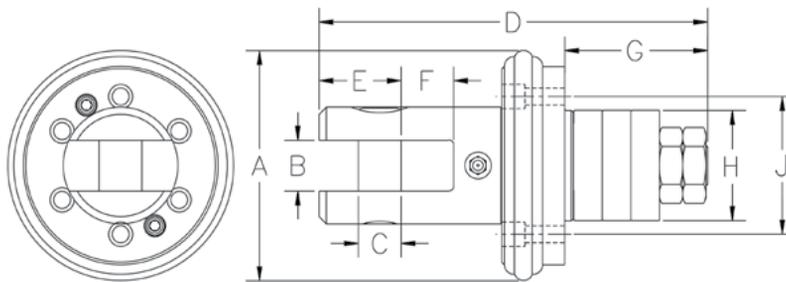
- Multiple-stage sealing system.
- Side mounted grease nipple for thorough greasing.
- Hard weld surround on flange to prevent wear at the head of the securing bolts.
- Angular contact bearings provide durability and excellent axial capacity. They have been maximized within the design of the reamer.
- Clevis connection with high strength, hardened and replaceable clevis pins. No longer a need for shackles to complete the connection.
- Completely self contained unit with jacking screws for easy removal.
- Both types feature a water port with plug.
- No modifications necessary to the reamer - simply use these as replacement parts.



00508-D27
(Fits Ditch Witch® Reamers
368-942, 369-944)



00508-V24
(Fits All Vermeer® Reamers
with Built-In Swivels for D16-D24)



Part No.	3:1 Safe Working Load	Ultimate Load	A	B	C	D	E	F	G	H	J	Flange Bolt	Weight
00504-D27	27,000 LB	81,000 LB	5-7/8"	1-1/4"	1-1/8"	10-1/8"	2-1/8"	1-3/8"	3-7/8"	2.835"	3-17/32"	6x3/8 UNC	17.0 LB
00504-V24	24,000 LB	72,000 LB	6-1/4"	1-5/16"	1-1/8"	10-1/8"	2-1/8"	1-3/8"	2-15/16"	3.500"	4-1/2"	6x1/2 UNC	24.0 LB

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DUB-SWIVEL®

00508 SERIES

These pullback swivels are designed specifically for horizontal directional drilling applications and after 15 years, they have proven capable of the challenge.

When DCD Design patented the "Harsh Environment Swivel" in 1996, it was ahead of its time. The most important feature of the DUB-Swivel® design was the sealing system: multiple stages became progressively finer to exclude sand and other coarse particles that can easily destroy a seal.

DCD DUB-Swivels® start with a gap seal to keep out larger particles, then a mechanical seal with lapped steel rings rotating against each other. This seal was designed for abrasive environments: military tank drivetrains, bulldozers and cement mixers. For the final stage of protection, a lip seal is used directly in front of the bearings.

In addition to the sealing system, these swivels offer an easily accessible lubrication system complete with relief valve. A high-quality grease formulation fills the bearing cavity, providing an immersed physical barrier to the rotating bearing elements. Regular maintenance – topping up the grease in small quantities – will ensure a full charge of clean lubricant is always protecting the bearings. Units are also rebuildable, contact us for your closest service center location.

The bearing arrangement in the DUB-Swivels® is another key to their durability. DUB-Swivels® use back-to-back tapered roller bearings in the smaller sizes up to and including 20 ton capacity. The design life-span of DUB-Swivel® bearings are in excess of 700 hours. This life-span is based on proper usage of the swivel - severe side or shock loads as well as maintenance and care will affect these expectations. Close attention must be paid to the product information sheets that accompany each swivel shipped.

It is our recommendation to always select a swivel larger than the machine capacity. It is usually more cost effective when this is done and, if the product is used carefully, life-span in excess of 3,000 hours have been recorded.

All DUB-Swivel® mechanical components are designed to withstand a straight tensile load of 5 times the safe working limit.

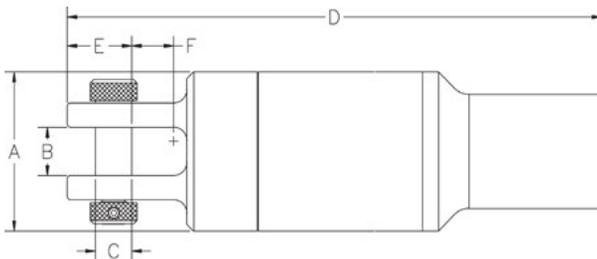
All DUB-Swivels®, 20 ton capacity and larger, are built with individually assigned serial numbers and complete material traceability for every component.

The above features apply to all types of DUB-Swivels®.

DUB-SWIVEL®

TYPE 1 - API Box / CLEVIS

Type 1 swivels offer an API box connection at the leading end and a clevis connection at the trailing end. The rigid connection allows more straight forward pushback, but it also places a greater side load on the swivel.



Part No.	5:1 Safe Working Load	Ultimate Load	Box Thread	A	B	C	D	E	F	Weight	PIN KIT
00508-115C	30,000 LB	150,000 LB	2-3/8" IF API	4-3/4"	1-3/4"	1-1/8"	17-7/8"	2-7/16"	1-9/16"	61 LB	00508-P015
00508-120C	40,000 LB	200,000 LB	2-3/8" IF API	5-3/4"	1-3/4"	1-3/8"	19-3/8"	2-7/16"	1-9/16"	79 LB	00508-P020
00508-120D	40,000 LB	200,000 LB	2-7/8" IF API	5-3/4"	1-3/4"	1-3/8"	19-1/2"	2-7/16"	1-9/16"	90 LB	00508-P020
00508-130D	60,000 LB	300,000 LB	2-7/8" IF API	6"	1-3/4"	1-3/8"	19-1/2"	2-7/16"	1-9/16"	94 LB	00508-P020
00508-130E	60,000 LB	300,000 LB	3-1/2" IF API	6"	1-3/4"	1-3/8"	20"	2-7/16"	1-9/16"	90 LB	00508-P020
00508-140E	80,000 LB	400,000 LB	3-1/2" IF API	6-1/2"	2-1/8"	1-3/4"	24-7/8"	3-1/4"	2"	144 LB	00508-P040
00508-140F	80,000 LB	400,000 LB	4-1/2" IF API	6-1/2"	2-1/8"	1-3/4"	26"	3-1/4"	2"	168 LB	00508-P040
00508-160F	120,000 LB	600,000 LB	4-1/2" IF API	7-1/2"	2-3/4"	2-1/8"	30-7/8"	3-9/16"	2-3/16"	257 LB	00508-P060
00508-180F	160,000 LB	800,000 LB	4-1/2" IF API	9"	3-1/4"	2-1/2"	32-5/8"	4-13/16"	2-13/16"	368 LB	00508-P080

US Patent # 5,529,421
Canadian Patent # 2,109,041
DUB-Swivel is a Registered Trade Mark

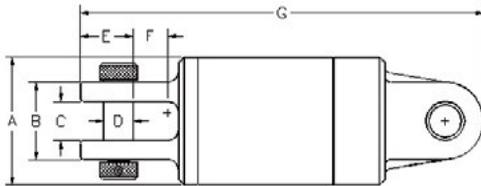


DUB-SWIVEL®

TYPE 2 - CLEVIS / CLEVIS

Type 2 swivels offer a clevis connection at both ends with hardened, lockable clevis pins. This style of swivel is the most common type and is the best for distributing side loads applied on the swivel due to its ability to pivot at either end. It does not allow the operator to push back without proper care and attention or the swivel may fold back on itself. When rotation is recommended, the line must be pulled straight or damage may occur to the clevis ends.

The clevis pins are available as spare parts and must never be replaced with any type of pin not manufactured by DCD Design.

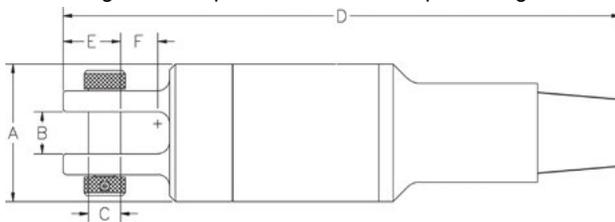


Part No.	5:1 Safe Working Load	Ultimate Load	A	B	C	D	E	F	G	Weight	Clevis Pin Kit
00508-202	5,000 LB	25,000 LB	2"	2"	1"	11/16"	1-3/16"	13/16"	7-1/2"	3.8 LB	00508-002
00508-205	10,000 LB	50,000 LB	3-1/8"	2-1/4"	1-1/4"	3/4"	1-1/4"	1-1/8"	11-1/16"	15 LB	00508-005
00508-210	20,000 LB	100,000 LB	3-3/4"	2-3/4"	1-1/2"	1"	1-5/8"	1-1/16"	13-9/16"	27 LB	00508-010
00508-215	30,000 LB	150,000 LB	4-3/4"	3-1/4"	1-3/4"	1-1/8"	2-1/16"	1-7/16"	17-3/8"	57 LB	00508-015
00508-220	40,000 LB	200,000 LB	5-3/4"	3-1/2"	1-3/4"	1-3/8"	2-1/2"	1-9/16"	18-1/2"	83 LB	00508-020
00508-230	60,000 LB	300,000 LB	6"	3-1/2"	1-3/4"	1-3/8"	2-1/2"	1-9/16"	18-1/2"	85 LB	00508-020
00508-240	80,000 LB	400,000 LB	6-1/2"	4-5/8"	2-1/8"	1-3/4"	3-1/4"	2-1/4"	24-11/16"	150 LB	00508-040
00508-250	100,000 LB	500,000 LB	7-1/2"	5-1/2"	2-3/4"	2-1/8"	3-5/8"	2-5/8"	26-3/8"	230 LB	00508-050
00508-260	120,000 LB	600,000 LB	7-1/2"	5-1/2"	2-3/4"	2-1/8"	3-9/16"	2-1/4"	28-1/2"	250 LB	00508-060
00508-280	160,000 LB	800,000 LB	9"	6"	3-1/4"	2-1/2"	4-13/16"	2-7/8"	33-7/8"	380 LB	00508-080

DUB-SWIVEL®

TYPE 7 - CLEVIS / PIN

Type 7 swivels offer a pin connection to the reamer or hole-opener ahead of the swivel. There are several different types and sizes of threaded connections, see the chart for details. The rigid connection allows more straightforward pushback, but it also places a greater side load on the swivel.



Part No.	5:1 Safe Working Load	Ultimate Load	Male Pin Thread	A	B	C	D	E	F	Weight	PIN KIT
00508-710-23M	20,000 LB	100,000 LB	2-3/8" REG API	3-3/4"	1-1/2"	1"	14-5/8"	1-9/16"	1-1/16"	29 LB	00508-P010
00508-715-23M	30,000 LB	150,000 LB	2-3/8" REG API	4-3/4"	1-3/4"	1-1/8"	17-1/16"	2"	1-9/16"	55 LB	00508-P015
00508-715-27M	30,000 LB	150,000 LB	2-7/8" IF API	4-3/4"	1-3/4"	1-1/8"	17-3/4"	2"	1-9/16"	76 LB	00508-P015
00508-720-27M	40,000 LB	200,000 LB	2-7/8" IF API	5-3/4"	1-3/4"	1-3/8"	19-1/8"	2-7/16"	1-9/16"	84 LB	00508-P020
00508-730-27M	60,000 LB	300,000 LB	2-7/8" IF API	6"	1-3/4"	1-3/8"	19-1/8"	2-7/16"	1-9/16"	87 LB	00508-P020
00508-740-27M	80,000 LB	400,000 LB	2-7/8" IF API	6-1/2"	2-1/8"	1-3/4"	23-11/16"	3-1/4"	2"	142 LB	00508-P040
00508-710V	20,000 LB	100,000 LB	2.06-8STARTERROD	3-3/4"	1-1/2"	1"	16"	1-9/16"	1-1/16"	29 LB	00508-P010
00508-715V	30,000 LB	150,000 LB	2.06-8STARTERROD	4-3/4"	1-3/4"	1-1/8"	18-1/2"	2"	1-9/16"	55 LB	00508-P015

US Patent # 5,529,421
Canadian Patent # 2,109,041
DUB-Swivel is a Registered Trade Mark

DCD

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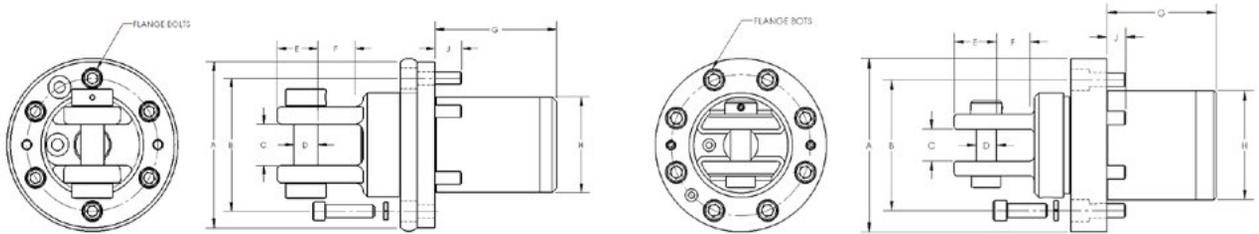
HDD TOOLS



STUB-E-DUB™

TYPE 6 - CLEVIS / FLANGE

Type 6 swivels are specially designed to fit inside custom built reamers. There are several manufacturers making these specific reamers. They have a mounting flange allowing assembly into the reamer and thereby reducing the gap back to the utility being installed. These swivels are totally self contained and greasable.



Part No.	5:1 Safe Working Load	Ultimate Load	A	B	C	D	E	F	G	H	J	Flange Bolts	Weight
00508-605	10,000 LB	50,000 LB	5"	4"	1-1/4"	3/4"	1-1/4"	1"	3-1/2"	2-7/8"	7/8"	6 x 3/8 UNC	14 LB
00508-610	20,000 LB	100,000 LB	6-1/8"	4-7/8"	1-1/2"	1"	1-9/16"	1-1/16"	4-3/16"	3-5/8"	1-1/8"	6 x 1/2 UNC	27 LB
00508-615	30,000 LB	150,000 LB	7-1/4"	5-7/8"	1-3/4"	1-1/8"	2"	1-9/16"	5-1/4"	4-3/8"	1-3/16"	6 x 5/8 UNC	48 LB
00508-620	40,000 LB	200,000 LB	9-1/2"	7-3/4"	1-3/4"	1-3/8"	2-7/16"	1-9/16"	6-1/16"	6"	1-1/16"	8 x 3/4 UNC	94 LB
00508-630	60,000 LB	300,000 LB	9-1/2"	7-3/4"	1-3/4"	1-3/8"	2-7/16"	1-9/16"	6-1/16"	6"	1-1/16"	8 x 3/4 UNC	98 LB
00508-640	80,000 LB	400,000 LB	9-1/2"	7-3/4"	2-1/8"	1-3/8"	3-1/4"	2"	8"	6"	1-1/16"	8 x 3/4 UNC	123 LB
00508-660*	120,000 LB	600,000 LB	10-3/4"	7-3/4"	2-3/4"	2-1/8"	3-9/16"	2-3/16"	9-7/8"	7-3/4"	1-3/8"	6 x 3/4 UNC	198 LB

* Note: Custom order only.

THE LIFESPAN OF A SWIVEL.

At the Safe Working Load and standard conditions, a swivel's bearing will last for 1 million revolutions, for example. At one-half the SWL, it will last significantly longer, 8 million revolutions. Both these calculations presume the swivel and grease are not compromised.

In short, the harder you work a swivel, the shorter the lifespan – and the relationship is not linear! Look at the above comparison: one-half the load leads to eight times the revolutions.

The load on the swivel is one factor. The care and maintenance you provide for the equipment is another major factor.

To last for 8 million revolutions, the swivel and its bearing will need lubrication at regular intervals. Since the frequency of maintenance will directly affect the level of reliability, we recommend lubrication after every pullback to keep the grease in the best possible condition. (And a thorough cleaning besides!)

 Read our Blog for more!



Pin Kits for DUB-LITE®, DUB SWIVEL®, and DUB-IN™

Pin Kit Number	Allen Key Size	Type 1	Type 6	Type 7
00508-P005	00101-156 (5/32")		00508-605	
00508-P010	00101-187 (3/16")		00508-610	
00508-P015	00101-187 (3/16")	00508-115C	00508-615 00508-615	
00508-P020	00101-187 (3/16")	00508-120C	00508-620	00508-720-27M
	00101-187 (3/16")	00508-120D	00508-630	00503-720-23M
	00101-187 (3/16")	00508-130D	00508-620	00508-730-27M
	00101-187 (3/16")	00508-130E		00503-730-23M 00503-745-23M 00503-745-27M
00508-P040	00101-250 (1/4")	00508-140E	00508-640	00508-740-27M
	00101-250 (1/4")	00508-140F		
00508-P060	00101-250 (1/4")	00508-160F	00508-660	
00508-P080	00101-312 (5/16")	00508-180F		
00508-P110	00101-312 (5/16")	00508-1110		
00508-P165	00101-312 (5/16")	00508-1165		
00508-P220	00101-375 (3/8")	00508-1220		
00508-P275	00101-375 (3/8")	00508-1275		
00508-P350	00101-500 (1/2")	00508-1350		
	00101-500 (1/2")	00508-1351		
00508-P500	00101-625 (5/8")	00508-1500		00508-7500
	00101-625 (5/8")	00508-1501		
00508-P700	00101-625 (5/8")	00508-1700		00508-7700

1 Pin per Kit



Pin Kit Number	Allen Key Size	Type 2	Type 6	Type 7	Other
00035-HEX	00101-375 (3/8")	00503-204			
00037-HEX	00101-375 (3/8")	00503-205		00503-705-21M	
00040-HEX	00101-375 (3/8")	00503-208	00503-610	00503-710-21M	
	00101-375 (3/8")	00503-210		00503-710-23M	
00045-HEX	00101-375 (3/8")	00503-215	00503-615	00503-715-21M 00503-715V	00504-D27 00504-V24

2 Pins per Kit



Pin Kit Number	Allen Key Size	DUB-Lite Type 2	DUB Type 2
00508-002	00101-375 (3/8")		00508-202
00508-005	00101-156 (5/32")		00508-205
00508-010	00101-187 (3/16")		00508-210
00508-015	00101-187 (3/16")	00503-220	00508-215
00508-020	00101-187 (3/16")	00503-230	00508-220
	00101-187 (3/16")	00503-245	00508-230
00508-040	00101-250 (1/4")		00508-240
00508-060	00101-250 (1/4")		00508-260
00508-080	00101-312 (5/16")		00508-280 00508-220 00508-230

2 Pins per Kit

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MAXI DUB-SWIVEL®

The most important feature of the Maxi DUB-Swivel® design is the sealing system: multiple stages became progressively finer to exclude sand and other coarse particles that can easily destroy a seal. DCD Maxi DUB-Swivels® start with a gap seal to keep out larger particles, then a mechanical seal with lapped steel rings rotating against each other. This seal was designed for abrasive environments: military tank drivetrains, bulldozers and cement mixers. For the final stage of protection, a lip seal is used directly in front of the bearings.

In addition to the sealing system, these swivels offer an easily accessible lubrication system complete with relief valve. A high quality grease formulation fills the bearing cavity, providing an immersed physical barrier to the rotating bearing elements. Regular maintenance – topping up the grease in small quantities – will ensure a full charge of clean lubricant is always protecting the bearings.

The Maxi DUB-Swivels® use a combination of bearings to provide tensile and side load support. This arrangement was pioneered by DCD Design, proven in service, and more recently, duplicated by our competitors.

The Maxi DUB-Swivel® bearings are designed to provide a life span in excess of 700 hours. This life span is based on proper usage of the swivel – severe side or shock loads as well as maintenance and care will affect these expectations.

All mechanical components are designed to withstand a tensile load of 3-1/2 times the safe working limit typically.

All MAXI DUB-Swivels® are built with individually assigned serial numbers and complete material traceability for every component. Replacement Pins and Seal Kits are available, please see page #10.

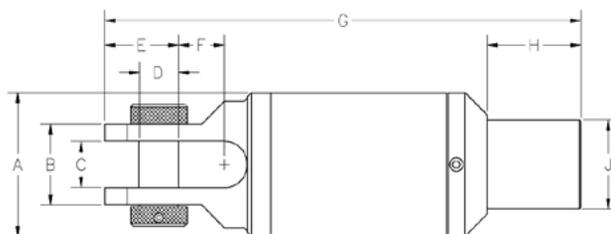
MAXI DUB-SWIVEL®

TYPE 1 - API Box / CLEVIS FOR MAXI RIGS

The increased range of Maxi-Rig swivels is designed to better fit the capacities of the most common rig manufactures.

Type 1 swivels offer an API box connection at the leading end and a clevis connection at the trailing end. The rigid connection allows more straight forward pushback, but it also places a greater side load on the swivel.

This special series is designed with service in mind. The seal cover is removable and all seals can be replaced in the field without need for major disassembly. Factory service can be scheduled to keep the Maxi-DUB Swivel® running smoothly; this preventative maintenance will keep the swivel operating longer.



Part No.	Safe Working Limit	Ultimate Load	Box Thread	A	B	C	D	E	F	G	H	J	Weight
00508-1110*	110 TON	400 TON	4-1/2" IF API	10-3/4"	6"	3-1/4"	2-1/2"	4-3/4"	2-7/8"	35"	7-1/2"	6-5/8"	420 LB
	100 TONNE	360 TONNE		273 MM	152 MM	83 MM	64 MM	121 MM	72 MM	889 MM	190 MM	169 MM	190 KG
00508-1165*	165 TON	600 TON	4-1/2" IF API	10-3/4"	6-1/2"	3-1/2"	3"	5-1/2"	3"	38"	7-1/2"	6-5/8"	570 LB
	150 TONNE	540 TONNE		273 MM	165 MM	89 MM	76 MM	140 MM	76 MM	965 MM	190 MM	169 MM	258 KG
00508-1220*	220 TON	750 TON	6-5/8" REG API	12-1/2"	7"	4"	3-1/2"	6-1/2"	4"	41-7/8"	8-1/4"	7-3/4"	846 LB
	200 TONNE	680 TONNE		318 MM	178 MM	102 MM	89 MM	165 MM	102 MM	1064 MM	209 MM	196 MM	383 KG
00508-1275**	275 TON	1000 TON	6-5/8" FH API	14-1/2"	8-9/16"	4-1/2"	4"	7"	3-1/2"	42-7/16"	8-7/16"	8-1/2"	1500 LB
	250 TONNE	907 TONNE		368 MM	217 MM	114 MM	102 MM	178 MM	89 MM	1078 MM	214 MM	216 MM	681 KG
00508-1350**	350 TON	1250 TON	7-5/8" REG API	16"	9"	5"	4-1/2"	8-1/2"	4-1/2"	50-11/16"	9-1/4"	9-1/4"	1,706 LB
	320 TONNE	1130 TONNE		406 MM	229 MM	127 MM	114 MM	216 MM	114 MM	1287 MM	234 MM	234 MM	774 KG
00508-1351	350 TON	1250 TON	6-5/8" FH API	16"	9"	5"	4-1/2"	8-1/2"	4-1/2"	50-11/16"	8-7/8"	8-1/2"	1,690 LB
	320 TONNE	1130 TONNE		406 MM	229 MM	127 MM	114 MM	216 MM	114 MM	1287 MM	225 MM	216 MM	770 KG
00508-1500**	500 TON	1750 TON	7-5/8" REG API	19-1/2"	10-1/2"	5-1/2"	5-1/2"	9-3/4"	5-1/4"	55-9/16"	9-1/4"	9-1/4"	2,568 LB
	450 TONNE	1580 TONNE		495 MM	267 MM	140 MM	140 MM	248 MM	133 MM	1411 MM	234 MM	234 MM	1,164 KG
00508-1501	500 TON	1750 TON	6-5/8" FH API	19-1/2"	10-1/2"	5-1/2"	5-1/2"	9-3/4"	5-1/4"	55-9/16"	8-7/8"	8-1/2"	2540 LB
	450 TONNE	1580 TONNE		495 MM	257 MM	140 MM	140 MM	248 MM	133 MM	1411 MM	225 MM	216 MM	1,150 KG
00508-1700**	700 TON	2500 TON	7-5/8" REG API	23"	12-1/2"	6-1/2"	6-1/2"	11-1/2"	5-1/2"	65-7/16"	9-1/2"	9-1/4"	4,120 LB
	640 TONNE	2270 TONNE		584 MM	318 MM	165 MM	165 MM	292 MM	140 MM	1663 MM	241 MM	234 MM	1,880 KG

* Note: Also available in 'HP' version rated to 210 psi; made to order.

** Note: Sizes made to order.

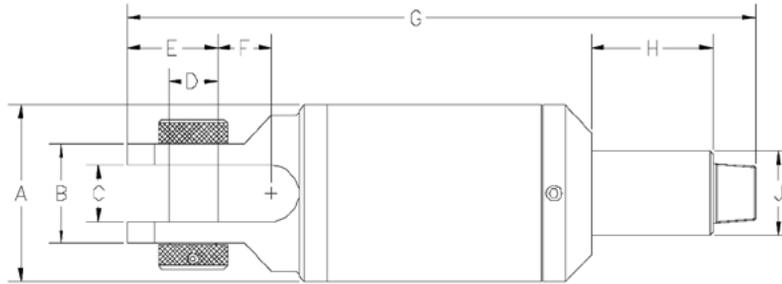
US Patent # 5,529,421
Canadian Patent # 2,109,041
Maxi DUB-Swivel is a Registered Trade Mark



MAXI DUB-SWIVEL®

TYPE 7 - API PIN / CLEVIS FOR MAXI RIGS

Type 7 Maxi-DUB Swivels® with an API pin connection (to the reamer or hole-opener ahead of the swivel) are a special-order option. The specifications are identical to the standard Type 1 Maxi-DUB Swivels®. Custom threads are available; call for more details.



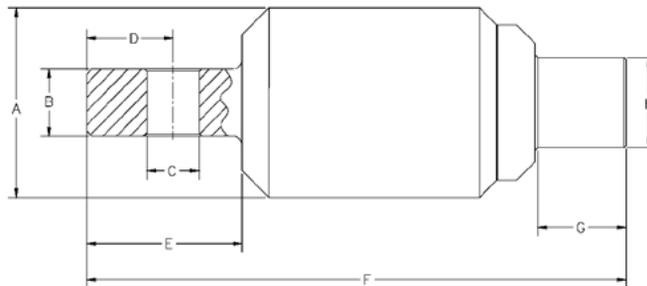
Part No.	Safe Working Limit	Ultimate Load	Pin-Thread	A	B	C	D	E	F	G	H	J	Weight
00508-7500	500 TON	1750 TON	6-5/8"	19-1/2"	10-1/2"	5-1/2"	5-1/2"	9-3/4"	5-1/4"	64-3/4"	12-1/8"	9-1/4"	2,700 LB
	450 TONNE	1580 TONNE	FH API	495 MM	267 MM	140 MM	140 MM	248 MM	133 MM	1645 MM	308 MM	235 MM	1,230 KG
00508-7700	700 TON	2500 TON	6-5/8"	23"	12-1/2"	6-1/2"	6-1/2"	11-1/2"	5-1/2"	72-11/16"	12-1/8"	9-1/4"	4,120 LB
	640 TONNE	2270 TONNE	FH API	584 MM	318 MM	165 MM	165 MM	292 MM	140 MM	1847 MM	308 MM	235 MM	1,880 KG

Note: Made to order.

MAXI DUB-SWIVEL®

TYPE 8 - API BOX / LUG FOR MAXI RIGS

Special applications call for special solutions: Type 8 Maxi-DUB Swivels® have been built to customer specifications to fit shackle connections. Otherwise specifications are identical to the standard Type 1 Maxi-DUB Swivels®, call for more details.



Part No.	Safe Working Limit	Ultimate Load	Box Thread	A	B	C	D	E	F	G	H	Weight
00508-8500	500 TON	1750 TON	7-5/8"	19-1/2"	5-3/4"	5-1/2"	9"	17-7/16"	57-9/16"	9-1/4"	9-1/4"	2,700 LB
	450 TONNE	1580 TONNE	REG API	495 MM	146 MM	140 MM	229 MM	444 MM	1461 MM	234 MM	234 MM	1,230 KG
00508-8501	500 TON	1750 TON	7-5/8"	19-1/2"	6-7/8"	5-7/16"	9"	16-3/16"	56-5/16"	9-1/4"	9-1/4"	2,700 LB
	450 TONNE	1580 TONNE	REG API	495 MM	175 MM	138 MM	229 MM	412 MM	1430 MM	234 MM	234 MM	1,230 KG

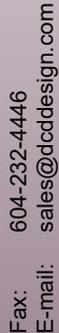
Note: Made to order.

See our Videos page on our Website for more information!

US Patent # 5,529,421
Canadian Patent # 2,109,041
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HDD TOOLS



110T LOCKING MAXI DUB-SWIVEL®

PART No. 00508-1110L

This is a locking version of our regular 110T Maxi DUB-Swivel®. Like other locking swivels, the locking sleeve can be secured in or out of its locked position, allowing free rotation or the transmission of torque up to 27,500 ft-lbs. The unit comes standard with a 4-1/2" IF Box connection on each end.

Part No.	Safe Working Limit	Safe Working Limit, Compression	Ultimate Load, Tension	Torque	Box Thread, Free End	Box Thread, Fixed End	External Pressure Rating	Net Weight
00508-1110L	110 TON 100 TONNE	58 TON 52.6 TONNE	400 TON 360 TONNE	27,500 FT-LBS 37,285 NM	4-1/2" IF API	4-1/2" IF API	25 PSI 0.172 MPA	420 LB 190 KG



220T LOCKING FLOW-THRU MAXI DUB-SWIVEL®

PART No. 00508-1220L

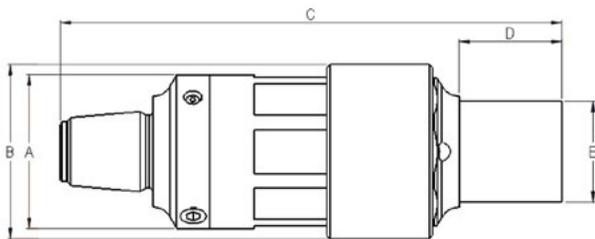
The locking Flow-Thru Swivel is a 220T Maxi DUB-Swivel® specifically intended for coupling with the drill string. It is designed with a 6-5/8" API connection on each end, a locking sleeve, and a clear 3" bore through the center of the swivel. The swivel locking sleeve can be unbolted to allow rotation or bolted to transmit up to 180,000 ft-lbs of torque. The locking sleeve can be engaged or disengaged without removing the swivel from the drill string. The thru-bore will allow the passage of drilling fluid through the swivel at pressures up to 1500 psi.

Part No.	Safe Working Limit	Safe Working Limit, Compression	Ultimate Load, Tension	Torque	Box Thread, Free End	Box Thread, Fixed End	Drilling Fluid Pressure Rating (Max)	External Pressure Rating	Net Weight
00508-1220L	220 TON 200 TONNE	66 TON 59.8 TONNE	750 TON 680 TONNE	180,000 FT-LBS 244,047 NM	5-1/2" FH API	5-1/2" FH API	1500 PSI 10.342 MPA	25 PSI 0.172 MPA	766 LB 348 KG

LOCKING FLOW-THRU DUB-SWIVEL®

PART No. 00508-120DB

This DUB-Swivel has the same 40,000 lb. safe working load as its standard 00508-120D version, but unlike that version, the 00508-120DB has a pin connection at the leading end, a box connection at the trailing end, a locking sleeve, and a 1-1/8" bore through the swivel. The locking sleeve can be secured in or out of position, allowing free rotation or the transfer of torque up to 2,000 ft-lbs and a maximum inner bore fluid pressure of 300 psi to allow the passage of drilling fluid.



Part No.	Safe Working Limit	Ultimate Load	Max Locking Torque	Max Innerbore Fluid Pressure	Box Thread	Pin Thread	A	B	C	D	E	Net Weight
00508-120DB	40,000 LB 178 kN	200,000 LB 890 kN	2,000 FT-LBS	300 PSI	3-1/2" Custom	3-1/2" Custom	5-3/4" 146 MM	6-1/2" 165 MM	18-15/16" 481 MM	3-7/8" 98 MM	3-3/4" 95 MM	96 LB 44 KG

* Note: Also available in 'HP' version rated to 210 psi; made to order.

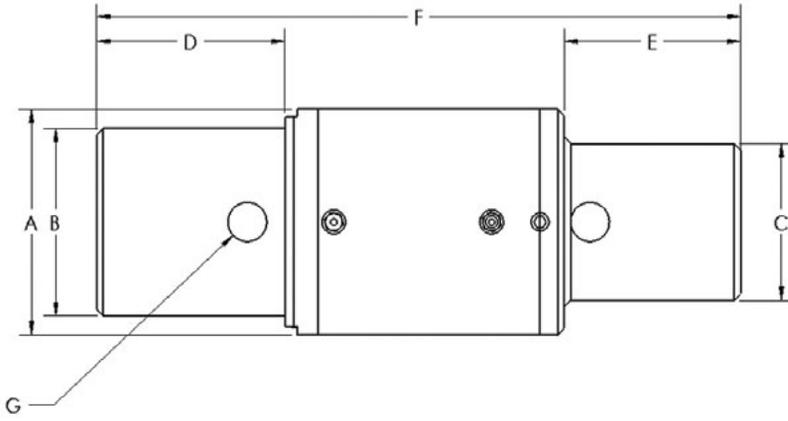
** Note: Sizes made to order.

US Patent # 5,529,421
Canadian Patent # 2,109,041
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DUB-SWIVEL®

TYPE 9 - HEX AUGER BORING

The 00508-940 Type 9 DUB Swivel® is an auger boring swivel, used in the guided auger boring process and installed in compression between the pilot rods and auger casing to prevent the rods from rotating as they enter the pit. The unit has a maximum compression safe working load of 80,000 lbs (5:1), maximum tension of 20,000 lbs, a maximum rotation speed of 90 RPM, and external fluid pressure limit of 1500 PSI. Each end of the swivel is designed with a 3" female hex.



Part No.	Safe Working Limit (Compression)	Ultimate Load (Compression)	Max Rotational Speed	Box Thread	A	B	C	D	E	F	G	Weight
00508-940	80,000 LB 356 kN	400,000 LB 1,779 kN	90 RPM	3-1/2" CUSTOM	6-15/32" 164 MM	5-3/8" 137 MM	4-1/2" 114 MM	5-15/32" 139 MM	5-1/8" 130 MM	18-11/16" 475 MM	1-1/8" 29 MM	96 LB 44 KG



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 E-mail: sales@dcddsgn.com

SWIVEL GREASE

RENOLIT S2TX is a high performance lithium complex grease formulated with highly refined mineral oil and synthetic base stocks. This, along with its state-of-the-art additive system, gives RENOLIT S2TX the utmost in performance and protection of your equipment. RENOLIT S2TX is very resistant to water washout, even in salt water. Its high Timken EP 75 pounds along with high dropping point of 525 degrees F makes it one grease for all applications.

Check for compatibility if using alternate grease types.

Part No.	Description	Size	Weight
90030-001	FUCHS RENOLIT S2TX GREASE	1 x 411 GRAM	1 LB
90030-003	FUCHS RENOLIT S2TX GREASE	120 LB / 54.5 KG DRUM	124 LB
90030-010	FUCHS RENOLIT GREASE CASE	10 x 411 GRAM	10 LB
90030-023	GREASE FITTING NEEDLE FOR 00505 LINE SWIVELS	3" LENGTH	0.05 LB



Grease Fitting Needle
(90030-023)

COMPATABILITY CHART

	Aluminum Complex	Barium Soap	Barium Complex	Bentone (Clay)	Calcium Stearate	Calcium 12 Hydroxy	Calcium Complex	Calcium Sulfonate	Lithium Stearate	Lithium 12 Hydroxy	Polyurea	Silica Gel	Sodium Soap
DCD Lithium Complex	C	B	I	I	C	C	C	C	C	C	I	C	I

I = Incompatible, C = Compatible, B = Borderline

CAN BE USED IN THE FOLLOWING:



DUB-LITE®
00503 Series



LINE SWIVEL
00505/00505A Series



MAXI DUB-SWIVEL®
00508 Series MAXI Rigs



DUB-IN™
00504 Series



DUB-SWIVEL®
00508 Series

See our Videos page on our Website for more information!



CLEVIS PIN

00000 SERIES

All clevis pins are manufactured from heat treated 416 stainless steel to provide superior strength and wear. Hardness is between 37-40 Rc.

The DCD Clevis Pin is a shouldered type of pin rather than a simple straight pin without any head. This design greatly improves the strength of the clevis by not allowing side loads to spread the clevis opening. The clevis and pin are precision machined so that both surfaces contact simultaneously and therefore lock in place when screwed tight. By using the recommended torque, the pin is secured with the corresponding preload, ensuring it won't come loose. Tensile loads are carried by the pin shoulder and transferred to the swivel body, and therefore no tensile load is carried by the thread.

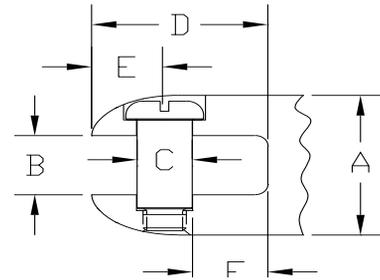
The hardened clevis pin also resists wear much better than conventional clevis pins. During operation there is a constant rubbing between the surface of the clevis pin and the attached item. A hard surface decreases the wear on the pin as well as increasing the strength of the pin.

Finally, the larger diameter of the shoulder will decrease wear on the attached item. If this happened to be a wire rope, for example, a conventional pin would cause that rope to bend in a very tight radius, affecting the life of each strand. The larger DCD pins increase that radius and also increase the life of the wire.

Products 1-1/4" diameter and less are supplied with slotted clevis pins; those greater than 1-1/4" are supplied with hexagon socket clevis pins. This is based on consumer preference. Either slotted or hexagon pins are available for most sizes but must be requested at time of ordering if not standard.

Because the DCD clevis pin is a precision machined product specifically designed to fit the clevis, field substitution with any other pins is not recommended. Doing so may cause serious danger to operators and equipment and will immediately void any warranty or liability for the product.

All clevis pin kits contain 2 pins.



Slotted Part No.	Hexagon Part No.	Hex Key Size	A	B	C	D	E	F	Recommended Torque (ft-lb)	Corresponding Preload
00005-SLT	-	N/A	5/8"	9/32"	3/16"	11/16"	1/4"	11/32"	1.0 ft-lb	366 lb
00010-SLT	00010-HEX	7/32"	7/8"	3/8"	5/16"	31/32"	7/16"	3/8"	2.5 ft-lb	600 lb
00015-SLT	00015-HEX	1/4"	1"	13/32"	3/8"	1-3/32"	1/2"	13/32"	5.4 ft-lb	1,040 lb
00020-SLT	00020-HEX	1/4"	1-1/4"	17/32"	13/32"	1-9/32"	17/32"	9/16"	6.7ft-lb	1,280 lb
00025-SLT	00025-HEX	5/16"	1-3/8"	9/16"	1/2"	1-3/8"	5/8"	1/2"	16.7 ft-lb	2,667 lb
00025-SLT	00025-HEX	5/16"	1-1/2"	19/32"	1/2"	1-9/16"	11/16"	5/8"	16.7 ft-lb	2,667 lb
00030-SLT	00030-HEX	3/8"	1-5/8"	11/16"	5/8"	1-23/32"	3/4"	21/32"	25.0 ft-lb	3,000 lb
00035-SLT	00035-HEX	3/8"	2"	25/32"	11/16"	2-1/16"	15/16"	25/32"	50.0 ft-lb	5,333 lb
-	00037-HEX	3/8"	2-1/4"	7/8"	3/4"	2-3/8"	1-1/8"	3/4"	75.0 ft-lb	7,200 lb
-	00040-HEX	3/8"	2-3/8"	1-1/32"	7/8"	2-25/32"	1-3/16"	1-5/32"	100.0 ft-lb	8,000 lb
-	00045-HEX	3/8"	3"	1-3/16"	1-1/8"	3-5/8"	1-1/2"	1-9/16"	190.0 ft-lb	13,029 lb
-	00050-HEX	1/2"	3-3/4"	1-1/2"	1-1/4"	4-1/4"	1-7/8"	1-3/4"	250.0 ft-lb	15,000 lb

Note: Darker shaded part numbers indicate standard Clevis Pin type supplied in most products.

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LINE SWIVEL 00505/00505A SERIES

DCD Line Swivels are typically constructed with a thrust bearing for tensile load and a radial bearing for bending load. They combine a high safe working load with a compact design. All sizes incorporate an oil seal and are manufactured from high strength stainless steel.

DCD Locking Line Swivels are typically constructed with a bronze thrust bearing for tensile load and a radial bearing for bending load. The bronze bearing will rotate up to a portion of the safe working load before locking. Once past this point, rotation will only occur when pulling tension is relieved.

Sizes 00505-020 and larger are supplied with a grease point for lubrication. This is particularly useful in overhead applications where high speed rotation is possible.

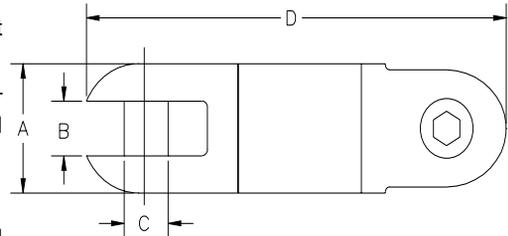
All sizes of both types are pull tested to verify the 3:1 safety factor. Test certificates are available upon request.

Sizes 00505-025 and larger are supplied with hexagon clevis pins. Smaller sizes have slotted clevis pins. A metric 5 kN size 00506-008 with slotted clevis pins is also available. Contact DCD Design for other metric equivalents.

Under no circumstances should alternate clevis pins be used.

Permanent peen marking is now standard on all line swivels and material traceability for all batches produced.

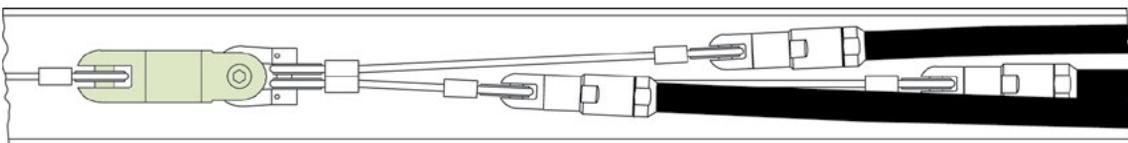
NOTE: Line swivels are not designed to run around bull wheels and severe damage or injury may be incurred if this is done.



Part No.	Locking Part No.	3:1 Safe Working Load	5:1 Safe Working Load	A	B	C	D	Weight	Replacement Clevis Pin
00505-005	-	750 LB	450 LB	5/8"	9/32"	3/16"	2-1/2"	0.12 LB	00005-SLT
00506-008	-	1,124 LB	674 LB	25/32"	9/32"	3/16"	3-1/6"	0.19 LB	00005-SLT
00505-010	00505-010A	2,250 LB	1,350 LB	7/8"	3/8"	5/16"	3-3/8"	0.32 LB	00010-SLT
00505-015	00505-015A	3,500 LB	2,100 LB	1"	13/32"	3/8"	3-7/8"	0.51 LB	00015-SLT
00505-020	00505-020A	5,000 LB	3,000 LB	1-1/4"	17/32"	13/32"	4-3/4"	1.0 LB	00020-SLT
00505-025	00505-025A	7,000 LB	4,200 LB	1-3/8"	9/16"	1/2"	5-1/8"	1.4 LB	00025-HEX
00505-027	00505-027A	9,000 LB	5,400 LB	1-1/2"	19/32"	1/2"	5-5/8"	1.8 LB	00025-HEX
00505-030	00505-030A	10,000 LB	6,000 LB	1-5/8"	11/16"	5/8"	6"	2.1 LB	00030-HEX
00505-035	00505-035A	15,000 LB	9,000 LB	2"	25/32"	11/16"	7"	3.9 LB	00035-HEX
00505-040	-	25,000 LB	15,000 LB	2-3/8"	1-1/32"	7/8"	10-5/16"	8.2 LB	00040-HEX
00505-041*	-	30,000 LB	18,000 LB	2-3/8"	1-1/32"	7/8"	10-5/16"	8.3 LB	00040-HEX
00505-045*	-	50,000 LB	30,000 LB	3"	1-3/16"	1-1/8"	13-3/4"	18 LB	00045-HEX
00505-050*	-	62,500 LB	37,500 LB	3-3/4"	1-1/2"	1-1/4"	15-9/16"	34 LB	00050-HEX

Note: See page 13 for Allen/Hex Key sizes.

* Note: These swivels are made from alloy steel with a black oxide finish; all others are stainless steel.

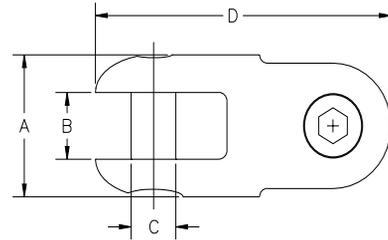


CAN-LINK™ CONNECTOR 00520 SERIES

The 00520 connector is used to connect two items with lugs or wire loop fittings. A common use is to connect a wire mesh grip to the pulling wire. The connectors are manufactured from high strength stainless steel with hardened clevis pins. The two smaller sizes have slotted clevis pins, while the larger sizes have hexagon clevis pins.

For clevis detail and pin replacement, see page 13 (series 00000).

Part No.	3:1 Safe Working Load	A	B	C	D	Weight
00520-010	2,500 LB	7/8"	3/8"	5/16"	2-1/8"	0.17 LB
00520-020	5,000 LB	1-1/4"	17/32"	13/32"	2-7/8"	0.46 LB
00520-027	9,000 LB	1-1/2"	19/32"	1/2"	3-3/8"	0.73 LB
00520-035	15,000 LB	2"	25/32"	11/16"	4-9/16"	2.0 LB
00520-040	25,000 LB	2-13/32"	1"	7/8"	6-7/32"	4.0 LB



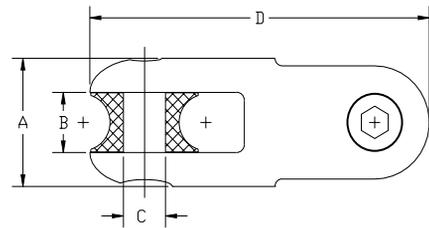
ROPE TO ROPE CONNECTOR 00521 SERIES

This product is used to connect two ropes of up to 7/8" diameter. The entire product, including sheaves, is manufactured from stainless steel.

Replacement sheaves are available by contacting the customer service department. The sheaves run on standard DCD clevis pins which are also available as spares (see series 00000).

This product is available only in the one size since it can also easily be used for smaller rope sizes.

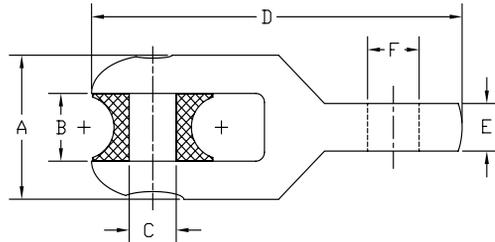
Part No.	3:1 Safe Working Load	Max. Rope Dia.	A	B	C	D	Weight
00521-035	15,000 LB	7/8"	2"	15/16"	11/16"	5-1/2"	2.7 LB
00521-040	25,000 LB	7/8"	2-13/32"	1"	7/8"	6-7/32"	4.5 LB



ROPE TO SWIVEL CONNECTOR 00522 SERIES

This product is used to connect a swivel to pulling rope. The entire product, including sheave, is manufactured from stainless steel.

Replacement sheaves are available by contacting the customer service department. The sheaves run on standard DCD clevis pins which are also available as spares (see series 00000).



Part No.	3:1 Safe Working Load	Max. Rope Dia.	A	B	C	D	E	F	Weight	Fits Line Swivel	
00522-025	7,000 LB	7/8"	2"	15/16"	11/16"	5-5/16"	1/2"	17/32"	2.1 LB	00505-020	
00522-025A				SAME AS ABOVE WITHOUT SHEAVE						1.8 LB	00505-025 00505-027
00522-035	15,000 LB	7/8"	2"	15/16"	11/16"	5-3/8"	21/32"	3/4"	2.3 LB	00505-030	
00522-035A				SAME AS ABOVE WITHOUT SHEAVE						2.0 LB	00505-035
00522-040	25,000 LB	7/8"	2"	15/16"	11/16"	5-3/8"	21/32"	3/4"	3.9 LB		
00522-040A				SAME AS ABOVE WITHOUT SHEAVE						3.6 LB	00505-040

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SWIVELS & CONNECTORS

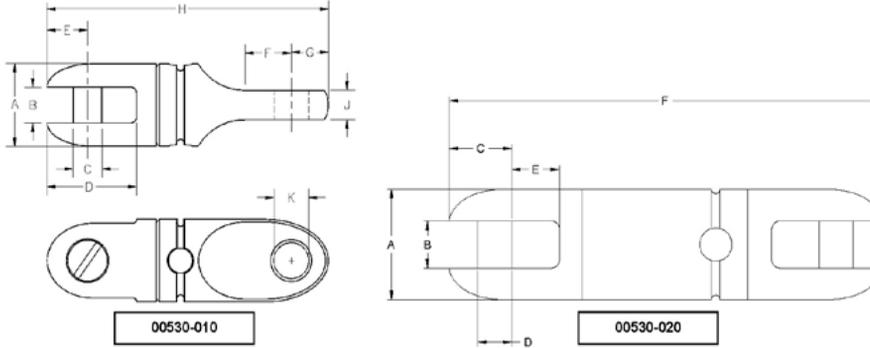


MIN-E-MAX™ BREAKAWAY CONNECTOR

00530 SERIES

The purpose of this product is to protect the utility being installed from overload. Typically, they would be used during the installation of fiber optic cable or very small gas ducting where the connector can be preset to breakaway at a predetermined load, thus protecting the fibers or the duct.

The breakaway pins may be changed to allow the same connector or to be used with a variety of different breakaway pins. Changing a pin takes just seconds.

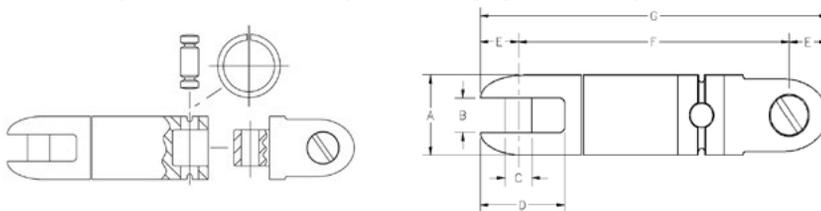


Part No.	A	B	C	D	E	F	G	H	J	K	Use Breakaway Pin Kits in:	Weight
00530-010	7/8"	3/8"	5/16"	31/32"	7/16"	1/2"	1/2"	3-1/8"	1/4"	1/2"	GROUP B	0.25 LB
00530-020	1-1/4"	17/32"	3/4"	13/32"	9/16"	5-1/16"	N/A	N/A	N/A	N/A	GROUP C	1.03 LB

BREAKAWAY SWIVEL

00550 SERIES

This product is similar to our 00530 series Breakaway Connector as it protects the utility being installed from overload with the addition of a built-in swivel. The breakaway pins may be changed to allow the same connector or to be used with a variety of different breakaway pins. Changing a pin takes just seconds.



Part No.	A	B	C	D	E	F	G	Use Breakaway Pin Kits in:	Weight
00550-005	5/8"	9/32"	3/16"	11/16"	1/4"	2-3/4"	3-1/4"	GROUP A	0.17 LB
00550-010	7/8"	3/8"	5/16"	31/32"	7/16"	3-3/16"	4-1/6"	GROUP B	0.42 LB
00550-020	1-1/4"	17/32"	13/32"	1-9/32"	17/32"	4-1/2"	5-9/16"	GROUP C	1.20 LB

BREAKAWAY PIN KITS FOR 00530 & 00550 SERIES PRODUCTS

Metric sizing also available, as requested.

GROUP A

Part No. (10 pins/kit)	Breaking Point (+/- 10%)	Color Code
00555-00125*	125 LB	GREEN
00555-0015*	150 LB	BLACK
00555-002	200 LB	WHITE
00555-0034	340 LB	RED
00555-004	400 LB	YELLOW
00555-0045	450 LB	BLUE
00555-006	600 LB	ORANGE
00555-007	675 LB	BLACK

GROUP B

Part No. (10 pins/kit)	Breaking Point (+/- 10%)	Color Code
00535-002	200 LB	WHITE
00535-004	400 LB	YELLOW
00535-006	600 LB	ORANGE
00535-008	800 LB	GREY
00535-010	1,000 LB	RED

GROUP C

Part No. (5 pins/kit)	Breaking Point (+/- 10%)	Color Code
00555-013	1,370 LB	WHITE
00555-018	1,800 LB	GREEN
00555-020	2,000 LB	BLUE
00555-027	2,700 LB	BLACK
00555-036	3,600 LB	YELLOW
00555-040	4,000 LB	RED

* Note: Sizes made to order.

Canadian Patent # 2,109,849
US Patent # 5,122,007



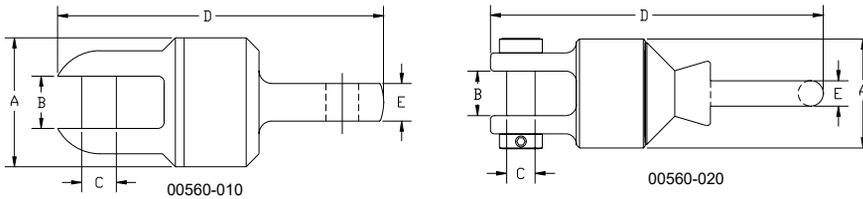
BREAKAWAY CONNECTORS

00560 SERIES

These products are designed to protect polyethylene ducting from overload during installation by directional drilling and are used between the pullback swivel and the duct puller.

The connectors are a three part product, held together by a group of pins. The pins are designed to break in tension at a specific load. The assembly of the connector is completed by using one or more of the breakaway pins. The sum of the values of the pins is the value at which the connector will come apart. If a single 1,000 lb. pin is used, the connector will come apart at 1,000 lbs. If 3 pins of the same value were used, the connector would come apart at 3,000 lbs. Different pin values can be mixed and matched to create a number of different values, all in the same connector. Metric pins are also available. See following pages for pin combinations.

The connectors are available in two sizes. The smaller unit covers values from 750 lbs. up to 12,500 lbs. (300 kg-6,000 kg) and the larger unit covers values from 6,000 lbs. up to 45,000 lbs (3,000 kg-20,000 kg).



Connector Part No.	A	B	C	D	E	Weight	Replacement Clevis Pin Kit
00560-010	2-1/2"	1"	11/16"	6-1/2"	3/4"	4 LB	00035-HEX
00560-020	3-3/4"	1-1/2"	1"	12"	7/8"	15 LB	00508-P010



00560-010 BREAKAWAY PINS

PINS WITH POUND BREAK LOADS				
Pin Kit (5 Pins / Kit)	Break Value (+/- 5%)	Color Code	Max. Torque (ft-lbs)	Preload (lbs)
00565-075	750 LB	YELLOW	2	540
00565-100	1,000 LB	ORANGE	3	720
00565-150	1,500 LB	RED	4	980
00565-200	2,000 LB	BLUE	6	1360
00565-250	2,500 LB	GREEN	7	1700

PINS WITH KILOGRAM BREAK LOADS				
Pin Kit (5 Pins / Kit)	Break Value (+/- 5%)	Color Code	Max. Torque (ft-lbs)	Preload (lbs)
00566-030	300 KG	WHITE	2	440
00566-040	400 KG	BEIGE	3	600
00566-050	500 KG	TURQUOISE	3	740
00566-100	1,000 KG	PURPLE	6	1400
00566-120	1,200 KG	BLACK	7	1640

00560-020 BREAKAWAY PINS

PINS WITH POUND BREAK LOADS				
Pin Kit (5 Pins / Kit)	Break Value (+/- 5%)	Color Code	Max. Torque (ft-lbs)	Preload (lbs)
00565-300	3,000 LB	YELLOW	12	1853
00565-600	6,000 LB	ORANGE	23	3680
00565-700	7,000 LB	RED	26	4160
00565-800	8,000 LB	BLUE	30	4800
00565-900	9,000 LB	GREEN	33	5280

PINS WITH KILOGRAM BREAK LOADS				
Pin Kit (5 Pins / Kit)	Break Value (+/- 5%)	Color Code	Max. Torque (ft-lbs)	Preload (lbs)
00566-200	2,000 KG	WHITE	18	2880
00566-250	2,500 KG	BEIGE	23	3680
00566-300	3,000 KG	TURQUOISE	26	4160
00566-350	3,500 KG	PURPLE	28	4480
00566-400	4,000 KG	BLACK	31	4960

Originally, the DCD breakaway connectors were used by contractors installing gas ducting where it is critical to protect the duct from overload during installation. Many utilities now require the use of a breakaway connector to ensure the final integrity of the ducting.

Use of the breakaway connectors and swivels has expanded over the years to include fiber-optic pulling and line-stringing, and has been incorporated into some innovative marine and vehicular towing applications.

The versatility of this product is its main feature. It can easily be reset from one value to another allowing the same tool to be used for installation of many different duct sizes each requiring different load settings. To reduce fatigue, install the pin to the specified torque. The pin will not experience fatigue when the load is less than the preload value.

Canadian Patent # 2,153,743
US Patent # 5,599,129



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00560-010CONNECTOR
SUGGESTED SET-UP VALUES

The following are suggested ways of arriving at required load values. There are usually several options other than those shown below.

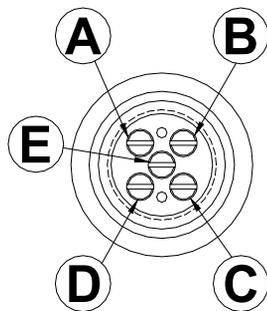
BREAKLOAD - LB

Pin Location (See Location Reference Diagram)					Break Value
A	B	C	D	E	lb.
-	-	-	-	750	750
-	-	-	-	1,000	1,000
-	-	-	-	1,500	1,500
1,000	-	750	-	-	1,750*
-	-	-	-	2,000	2,000
750	-	750	-	750	2,250
750	-	750	-	1,000	2,500
1,000	-	1,000	-	750	2,750
750	750	750	750	-	3,000
750	750	750	1,000	-	3,250
750	1,000	750	1,000	-	3,500
1,500	-	1,500	-	750	3,750
1,000	1,000	1,000	1,000	-	4,000
1,000	750	1,000	750	750	4,250
1,500	-	1,500	-	1,500	4,500
2,000	-	2,000	-	750	4,750
-	2,500	-	2,500	-	5,000
1,500	750	1,500	750	750	5,250
2,000	-	2,000	-	1,500	5,500
1,000	1,500	1,000	1,500	750	5,750
1,500	1,500	1,500	1,500	-	6,000
2,000	750	2,000	750	750	6,250
1,500	750	1,500	750	2,000	6,500
1,500	1,500	1,500	1,500	750	6,750
1,500	2,000	1,500	2,000	-	7,000
2,000	1,000	2,000	1,500	750	7,250*
-	2,500	-	2,500	2,500	7,500
2,000	1,500	2,000	1,500	750	7,750
2,000	2,000	2,000	2,000	-	8,000
2,000	1,500	2,000	1,500	1,500	8,500
1,500	2,000	1,500	2,000	2,000	9,000
2,000	2,000	2,000	2,000	1,500	9,500
2,500	2,500	2,500	2,500	-	10,000
2,500	2,000	2,500	2,000	1,500	10,500
2,500	2,500	2,500	2,500	1,000	11,000
2,500	2,500	2,500	2,500	1,500	11,500
2,500	2,500	2,500	2,500	2,000	12,000
2,500	2,500	2,500	2,500	2,500	12,500

BREAKLOAD - KG

Pin Location (See Location Reference Diagram)					Break Value
A	B	C	D	E	kg.
-	-	-	-	300	300
-	-	-	-	400	400
-	-	-	-	500	500
300	-	300	-	-	600
300	-	400	-	-	700
400	-	400	-	-	800
400	-	500	-	-	900
-	-	-	-	1,000	1,000
400	-	400	-	300	1,100
400	-	400	-	400	1,200
400	-	400	-	500	1,300
500	-	500	-	400	1,400
500	-	500	-	500	1,500
300	-	300	-	1,000	1,600
500	400	500	300	-	1,700
400	-	400	-	1,000	1,800
500	500	500	400	-	1,900
1,000	-	1,000	-	-	2,000
500	400	500	400	300	2,100
500	400	500	400	400	2,200
500	400	500	400	500	2,300
1,200	-	1,200	-	-	2,400
500	500	500	500	500	2,500
1,000	300	1,000	300	-	2,600
1,200	-	1,200	-	300	2,700
1,200	-	1,200	-	400	2,800
1,200	-	1,200	-	500	2,900
1,000	-	1,000	-	1,000	3,000
1,000	400	1,000	400	300	3,100
1,000	400	1,000	400	400	3,200
1,000	400	1,000	400	500	3,300
1,200	-	1,200	-	1,000	3,400
1,200	400	1,200	400	300	3,500
1,200	-	1,200	-	1,200	3,600
1,200	400	1,200	400	500	3,700
1,000	400	1,000	400	1,000	3,800
1,200	500	1,200	500	500	3,900
1,000	1,000	1,000	1,000	-	4,000
1,000	400	1,000	500	1,200	4,100
1,200	400	1,200	400	1,000	4,200
1,000	1,000	1,000	1,000	300	4,300
1,000	1,000	1,000	1,000	400	4,400
1,000	1,000	1,000	1,000	500	4,500
1,200	500	1,200	500	1,200	4,600
1,000	1,200	1,000	1,200	300	4,700
1,200	1,200	1,200	1,200	-	4,800
1,000	1,200	1,000	1,200	500	4,900
1,000	1,000	1,000	1,000	1,000	5,000
1,200	1,200	1,200	1,200	300	5,100
1,200	1,200	1,200	1,200	400	5,200
1,200	1,200	1,200	1,200	500	5,300
1,200	1,000	1,200	1,000	100	5,400
1,200	1,000	1,200	1,000	1,200	5,600
1,200	1,200	1,200	1,200	1,000	5,800
1,200	1,200	1,200	1,200	1,200	6,000

Note: Uneven pin distribution may result in up to 10% higher breaking point.



PIN LOCATION REFERENCE



00560-020CONNECTOR

SUGGESTED SET-UP VALUES

The following tables are suggested ways of arriving at required load values. There are usually several options other than those shown below. The five pin locations are designated as A, B, C, D & E. (See Diagram).

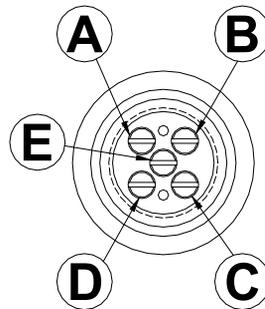
BREAKLOAD - LB

Pin Location (See Location Reference Diagram)					Break Value
A	B	C	D	E	lb.
-	-	-	-	3,000	3,000
6,000	-	6,000	-	-	12,000
3,000	-	3,000	-	7,000	13,000
7,000	-	7,000	-	-	14,000
3,000	-	3,000	-	9,000	15,000
8,000	-	8,000	-	-	16,000
7,000	-	7,000	-	3,000	17,000
9,000	-	9,000	-	-	18,000
8,000	-	8,000	-	3,000	19,000
7,000	-	7,000	-	6,000	20,000
7,000	-	7,000	-	7,000	21,000
7,000	-	7,000	-	8,000	22,000
7,000	-	7,000	-	9,000	23,000
8,000	-	8,000	-	8,000	24,000
8,000	-	8,000	-	9,000	25,000
9,000	-	9,000	-	8,000	26,000
9,000	-	9,000	-	9,000	27,000
7,000	7,000	7,000	7,000	-	28,000
3,000	7,000	3,000	7,000	9,000	29,000
6,000	6,000	6,000	6,000	6,000	30,000
6,000	6,000	6,000	6,000	7,000	31,000
6,000	6,000	6,000	6,000	8,000	32,000
6,000	6,000	6,000	6,000	9,000	33,000
7,000	7,000	7,000	7,000	6,000	34,000
7,000	7,000	7,000	7,000	7,000	35,000
7,000	7,000	7,000	7,000	8,000	36,000
7,000	7,000	7,000	7,000	9,000	37,000
8,000	7,000	8,000	7,000	8,000	38,000
8,000	7,000	8,000	7,000	9,000	39,000
8,000	8,000	8,000	8,000	8,000	40,000
8,000	8,000	8,000	8,000	9,000	41,000
9,000	9,000	9,000	9,000	6,000	42,000
9,000	9,000	9,000	9,000	7,000	43,000
9,000	9,000	9,000	9,000	8,000	44,000
9,000	9,000	9,000	9,000	9,000	45,000

BREAKLOAD - KG

Pin Location (See Location Reference Diagram)					Break Value
A	B	C	D	E	kg.
-	-	-	-	3,000	3,000
3,000	-	3,000	-	-	6,000
2,000	-	2,000	-	2,500	6,500
2,000	-	2,000	-	3,000	7,000
2,000	-	2,000	-	3,500	7,500
4,000	-	4,000	-	-	8,000
3,000	-	3,000	-	2,500	8,500
3,000	-	3,000	-	3,000	9,000
3,000	-	3,000	-	3,500	9,500
3,000	-	3,000	-	4,000	10,000
4,000	-	4,000	-	2,500	10,500
4,000	-	4,000	-	3,000	11,000
4,000	-	4,000	-	3,500	11,500
4,000	-	4,000	-	4,000	12,000
2,500	2,500	2,500	2,500	2,500	12,500
2,500	2,500	2,500	2,500	3,000	13,000
2,500	2,500	2,500	2,500	3,500	13,500
2,500	2,500	2,500	2,500	4,000	14,000
3,000	3,000	3,000	3,000	2,500	14,500
3,000	3,000	3,000	3,000	3,000	15,000
3,000	3,000	3,000	3,000	3,500	15,500
3,000	3,000	3,000	3,000	4,000	16,000
3,000	3,500	3,000	3,500	3,500	16,500
3,500	3,500	3,500	3,500	3,000	17,000
3,500	3,500	3,500	3,500	3,500	17,500
3,500	3,500	3,500	3,500	4,000	18,000
4,000	3,500	4,000	3,500	3,500	18,500
4,000	3,500	4,000	3,500	4,000	19,000
4,000	4,000	4,000	4,000	3,500	19,500
4,000	4,000	4,000	4,000	4,000	20,000

Note: Uneven pin distribution may result in up to 10% higher breaking point.



PIN LOCATION REFERENCE

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 E-mail: sales@dcdesign.com

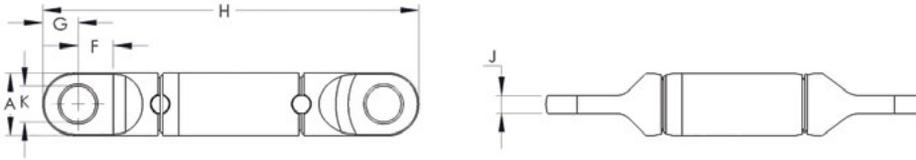


WIRE BREAKAWAY CONNECTOR NEW

00531 SERIES

The wire breakaway connector is our most recent addition to our family of breakaway connectors. This connector uses a wire instead of a pin to achieve the smallest of break loads. The two-piece design ensures you don't lose parts of your connector when separation does occur. The product is manufactured from stainless steel to provide years of service.

Originally designed to pull 1/2" medium density polyethylene or light duty fiber optic cable, our premier set of breakaway wires designed for this connector will break at different load capacities ensuring your product is protected from damage caused by over-pulling. Break loads from 15 to 200 lbs are available. Wire kits are sold in packs of 10.



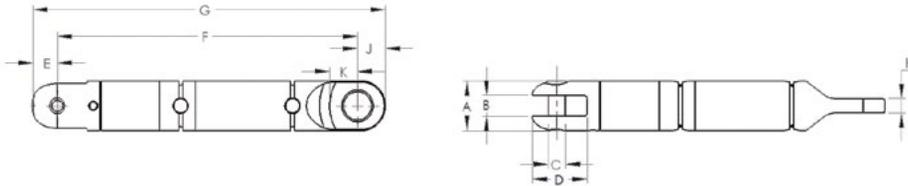
Part No.	A	B	C	D	E	F	G	H	J	K	Use Breakaway Wire Kits in:	Weight
00531-010	7/8"	N/A	N/A	N/A	N/A	1/2"	1/2"	5-1/3"	1/4"	1/2"	GROUP A	0.51 LB



WIRE BREAKAWAY SWIVEL NEW

00551 SERIES

This product is similar to our 00531 series Wire Breakaway Connector as it protects the utility being installed from overload with the addition of a built-in swivel. Changing a wire takes just seconds.



Part No.	A	B	C	D	E	F	G	H	J	K	Use Breakaway Wire Kits in:	Weight
00551-010	7/8"	3/8"	5/16"	31/32"	1/2"	5-3/8"	6-1/16"	1/4"	1/2"	1/2"	GROUP A	0.75 LB



BREAKAWAY WIRE KITS FOR 00531 & 00551 SERIES PRODUCTS

Metric sizing also available, as requested.

GROUP A

Part No. (10 wires/kit)	Breaking Point (+/- 10%)	Color Code
00536-015	15 LB	YELLOW
00536-022	22 LB	ORANGE
00536-040	40 LB	WHITE
00536-050	50 LB	BROWN
00536-065	65 LB	GREEN
00536-080	80 LB	PURPLE

GROUP A (CONT'D)

Part No. (10 wires/kit)	Breaking Point (+/- 10%)	Color Code
00536-100	100 LB	RED
00536-120	120 LB	BLUE
00536-130	130 LB	BEIGE
00536-140	140 LB	TURQUOISE
00536-150	150 LB	BLACK
00536-185	185 LB	PINK
00536-200	200 LB	GREY



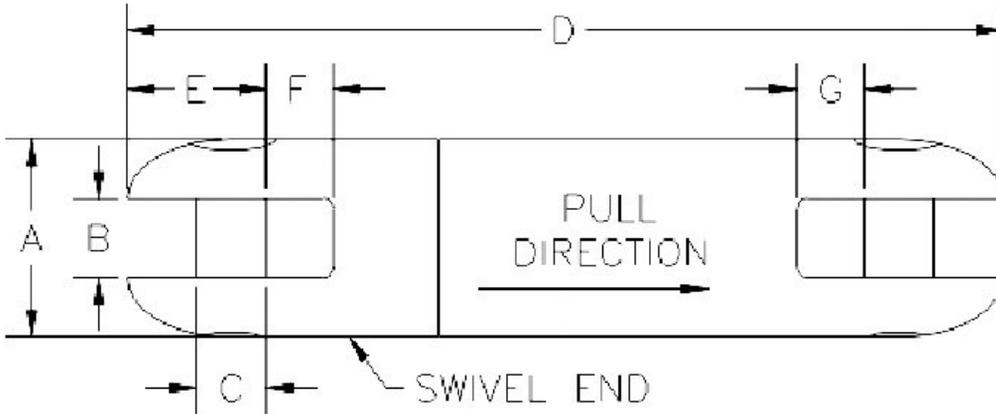
HDD BREAKAWAY SWIVEL

00570-208 SERIES

The HDD Breakaway Swivel is similar to our 00550 Series, but with the larger breakaway values and a more durable design that is suited for HDD practices. The design is inspired by our popular DUB-Lite Swivel product line and is combined with the technology of our Breakaway Connectors.

Saving you space in your pullback assembly, the HDD Breakaway Swivel is only 1.5" longer than the 00503-208 Dub-Lite Swivel, meaning it's 5" shorter than the alternative of using the DUB-Lite and a Breakaway Connector together. It will accept the same range of 00565 and 00566 breakaway pins that we offer, which gives the HDD Breakaway Swivel a break load range from 750 lbs to 12,500 lbs.

Additionally, the product can be used with solid pins, which brings it up to a safe working load of 15,000 lbs, allowing it to function as a standard 00503-208 swivel.



Part No.	Safe Working Limit	Ultimate Load	A	B	C	D	E	F	G	Net Weight	Clevis Pin Kit
00570-208	15,000 LB 67 kN	45,000 LB 200 kN	2-1/2" 64 MM	1" 25 MM	7/8" 22 MM	12-3/16" 309 MM	1-3/4" 44 MM	7/8" 22 MM	1" 25 MM	12.0 LB 5.5 KG	00040-HEX

00570 BREAKAWAY PINS

PINS WITH POUND BREAK LOADS				
Pin Kit (5 Pins / Kit)	Break Value (+/- 5%)	Color Code	Max. Torque (ft-lbs)	Preload (lbs)
00565-075	750 LB	YELLOW	2	540
00565-100	1,000 LB	ORANGE	3	720
00565-150	1,500 LB	RED	4	980
00565-200	2,000 LB	BLUE	6	1360
00565-250	2,500 LB	GREEN	7	1700

PINS WITH KILOGRAM BREAK LOADS				
Pin Kit (5 Pins / Kit)	Break Value (+/- 5%)	Color Code	Max. Torque (ft-lbs)	Preload (lbs)
00566-030	300 KG	WHITE	2	440
00566-040	400 KG	BEIGE	3	600
00566-050	500 KG	TURQUOISE	3	740
00566-100	1,000 KG	PURPLE	6	1400
00566-120	1,200 KG	BLACK	7	1640

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EYE TO EYE/CLEVIS CONNECTORS

00652 / 00653 SERIES

These swivel connectors are used for many applications. The two halves will not rotate under load, but are useful for aligning products. They are forged from carbon steel and galvanized for protection.

Part No.	Part No.	Nominal Size	5:1 Safe Working Load	Weight
00652-037	00653-037	3/8"	2,250 LB	0.70 LB
00652-050	00653-050	1/2"	3,600 LB	1.36 LB
00652-062	00653-062	5/8"	5,200 LB	2.47 LB



CONNECTING SHACKLES

00654 / 00655 SERIES

These shackles provide a low cost, economical means of connecting two products together. Available in two types - one (00654 series) with a bolt, nut and cotter pin for locking, the other (00655 series) with a one piece bolt with a flanged head suitable for wire locking if needed.

Part No.	Part No.	Nominal Size	6:1 Safe Working Load (Tons)	Weight
-	00655-018	3/16"	1/3	0.06 LB
-	00655-025	1/4"	1/2	0.11 LB
00654-031	00655-031	5/16"	3/4	0.18 LB
00654-037	00655-037	3/8"	1	0.31 LB
00654-043	00655-043	7/16"	1-1/2	0.43 LB
00654-050	00655-050	1/2"	2	0.68 LB
00654-062	00655-062	5/8"	3-1/4	1.33 LB
-	00655-075	3/4"	4-3/4	2.22 LB
-	00655-087	7/8"	6-1/2	3.39 LB
-	00655-100	1"	8-1/2	4.92 LB
-	00655-112	1-1/8"	9-1/2	7.63 LB
-	00655-125	1-1/4"	12	10.30 LB
-	00655-137	1-3/8"	13-1/2	13.65 LB
-	00655-150	1-1/2"	17	17.90 LB
-	00655-175	1-3/4"	25	29.29 LB
-	00655-200	2"	35	44.0 LB



CHAIN-LINK CONNECTORS

00656 SERIES

These chain link connectors are useful and easy to insert in any pulling line. They allow easier bending of a pulling eye or other rigid component when going around bends or sheaves.

These high quality products are manufactured with grade 80 steel.

Part No.	Nominal Size	3:1 Safe Working Load	Weight
00656-028	9/32"	4,650 LB	0.29 LB
00656-037	3/8"	9,450 LB	0.77 LB
00656-050	1/2"	16,000 LB	1.59 LB
00656-062	5/8"	24,100 LB	3.13 LB



QUICK LINK CONNECTOR

00660 SERIES

The quick link can be used in a variety of applications to connect a number of our products to each other. They provide low cost, ease of use and no maintenance.

Part No.	Nominal Size	2:1 Safe Working Load	Loop Inside Width	O/A Outside Length	Weight
00660-187	3/16"	660 LB	1/2"	2"	0.05 LB
00660-250	1/4"	880 LB	1/2"	2-3/8"	0.08 LB
00660-312	5/16"	1,760 LB	5/8"	3"	0.17 LB
00660-375	3/8"	2,200 LB	11/16"	3-3/16"	0.23 LB
00660-437	7/16"	2,600 LB	3/4"	3-1/2"	0.31 LB
00660-500	1/2"	3,300 LB	7/8"	4-1/8"	0.51 LB



WIRE ROPE BRIDLE SLING

23000 SERIES

The purpose of this product is to allow multiple pulls at one time by attaching 2, 3 or 4 cables or ducts to the puller. The slings are manufactured from aircraft quality wire rope with thimble eyes for durability (tapered swages are also available). The various "legs" are staggered in length so the individual connections are not interfering with each other. The lead coupler can be easily dismantled to change out a leg or to add another leg.

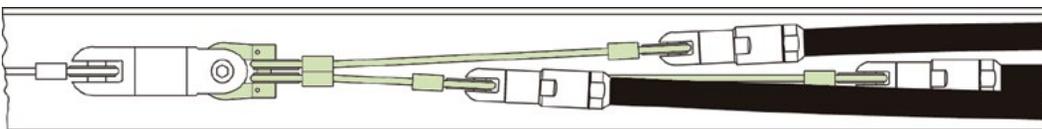
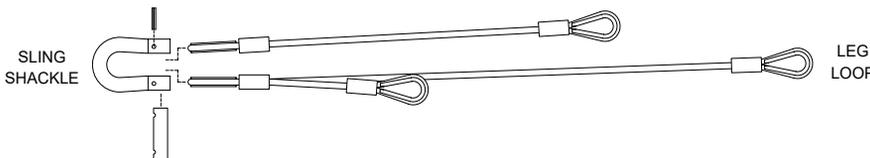
Each leg is marked with load capacity and they have a 3 times safety factor on that rating. The safety factor is based on equal pull on all cables (horizontal pull only). Couplers and wire rope sling legs may be ordered separately. Other sling configurations are available upon request.

Line Swivels (00505 series) are recommended to permit free rotation of the bridle at the legs and coupler. The suggested swivels are sized to suit the load and connection: smaller swivels over the individual thimble eyes, a larger swivel to fit the lead coupler.

Sling Part No.	Wire Dia.	No. of Legs	3:1 Safe Working Load			Swivel Recommendation	
			Leg Capacity	Sling Capacity	Weight	Over Sling Shackle	Over Leg Loop
23125-020	1/8"	2	650 LB	1,300 LB	0.5 LB	00505-020	00505-005
23125-030	1/8"	3	650 LB	1,950 LB	0.6 LB	00505-025	00505-010
23125-040	1/8"	4	650 LB	2,600 LB	0.6 LB	00505-027	00505-015
23250-020	1/4"	2	2,300 LB	4,600 LB	1.2 LB	00505-027	00505-010
23250-030	1/4"	3	2,300 LB	6,900 LB	1.6 LB	00505-030	00505-015
23250-040	1/4"	4	2,300 LB	9,200 LB	2 LB	00505-035	00505-020
23375-020	3/8"	2	4,800 LB	9,600 LB	2.9 LB	00505-035	00505-020
23375-030	3/8"	3	4,800 LB	14,400 LB	3.7 LB	00505-040	00505-025
23375-040	3/8"	4	4,800 LB	19,200 LB	5.9 LB	00505-041	00505-027
23500-020	1/2"	2	6,900 LB	13,800 LB	6.7 LB	00505-045	00505-030
23500-030	1/2"	3	6,900 LB	20,700 LB	8.6 LB	00505-040	00505-030
23500-040	1/2"	4	6,900 LB	27,600 LB	12.7 LB	00505-045	00505-035
						00505-050	



Note: 5 & 6 way available in 1/4" and 3/8" slings upon request.



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SWIVELS & CONNECTORS



DCD PULLING GRIPS



DCD cable grips are hand-woven by experienced trades-people guaranteeing a consistent level of high quality. DCD grips are reverse woven, creating a loop at the end of the grip instead of being soldered or crimped together (see photo inset below of typical grip end).

The looped pulling head is actually a separate wire rope eye which is placed inside the swage sleeve along with the wire mesh strands. The swage sleeve is then crimped forming an extremely effective anchor point for both the looped head and the wire mesh. Testing proves this is never the weakest link of the product. The flexible eye allows cable to be pulled easily through smaller ducting.

The DCD cable grips enclose the cable firmly over the entire length of the mesh. They are made of high tensile steel strands. Depending on the type of grip, the strand comprises 7, 12 or 19 wires. By selecting the most suitable strand, the tension distribution characteristics can be adjusted to suit the requirements.

All DCD grips meet the highest standards in terms of material and workmanship and we are pleased to offer a wide range of grips with different designs and eye arrangements for onsite (or premise), underground or overhead installations.

Some of the grips offered in this catalog have rotating heads which allow the grip to rotate while not under load. DCD also offers the 00501 series swivel, designed specifically for use with flexible eye grips, it is easily interchangeable but it will also not rotate under load.

All capacities indicated are approximate breaking strength. Each user must decide what safety factor they require for each specific operation before selecting which grip to use. Due to metal fatigue and possible in-use damage, quoted values only apply to new grips.

Please refer to the following pages for information on DCD's pulling grips.

Special configurations (double eyes, extra length, etc) may be available as a special factory order. Contact DCD Design with your requirements.

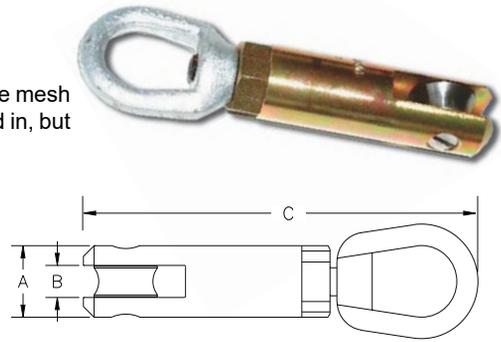
See our Videos page on our Website for more information!



WIRE GRIP SWIVEL 00501 SERIES

These swivels can be used in conjunction with either the 00670 or 00680 wire mesh grips. They will allow the utility being installed to "unwind" as it is being pulled in, but like the rotary heads, these swivels will not rotate under load.

Part No.	Min. Breaking Strength	A	B	C	Weight
00501-010	10,000 LB	1-1/4"	9/16"	7"	1.5 LB
00501-025	25,000 LB	1-5/8"	9/16"	8-5/8"	3.2 LB



00661 SERIES SINGLE WEAVE – SINGLE EYE – LIGHT DUTY

These grips offer a flexible eye with single weave galvanized wire construction for light duty applications, pulling single or grouped cable, where a small profile is needed. A standard kit is also available in a pouch.

Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00661-004	0.15" to 0.24"	6-1/2"	400 LB	0.01 LB
00661-006*	0.25" to 0.37"	6-1/2"	460 LB	0.01 LB
00661-010*	0.38" to 0.49"	7-1/2"	860 LB	0.03 LB
00661-013*	0.50" to 0.62"	9"	1,250 LB	0.06 LB
00661-016*	0.63" to 0.74"	12"	1,790 LB	0.09 LB
00661-019*	0.75" to 0.99"	12"	2,580 LB	0.13 LB
00661-025*	1.00" to 1.24"	12.5"	4,090 LB	0.22 LB
00661-JGK	INCLUDES ALL ABOVE PARTS MARKED WITH *			0.90 LB



00662 / 00664 SERIES NON CONDUCTIVE – SINGLE / DOUBLE WEAVE – SINGLE EYE

These grips are non-metallic and non-conductive – ideal for use in damp conditions or off-shore applications. The high-strength aramid fibers are coated, lightweight and flexible: ideal for installing fiber optic cable or other high-tech cables. Smaller sizes are single weave, larger sizes are double weave.

Part No.	Size Range	Weave	Approx. Mesh Length	Approx. Breaking Strength	Weight
00662-010	0.38" to 0.74"	SINGLE	34"	2,500 LB	0.12 LB
00662-020	0.75" to 1.12"	SINGLE	35"	3,700 LB	0.18 LB
00664-030	1.13" to 1.49"	DOUBLE	35"	9,800 LB	0.22 LB
00664-040	1.50" to 1.99"	DOUBLE	38"	11,800 LB	0.46 LB

00670 / 00671 SERIES DOUBLE WEAVE – SINGLE EYE

These grips offer a flexible eye and double weave galvanized wire construction for regular load pulls. The galvanized steel braid offers durability for underground installations and other more demanding situations.

Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00670-025	0.24" to 0.37"	18"	4,250 LB	0.21 LB
00670-038	0.38" to 0.74"	18"	5,000 LB	0.34 LB
00670-050	0.75" to 1.12"	20"	6,600 LB	0.47 LB
00670-100	1.13" to 1.49"	21"	10,000 LB	0.69 LB
00670-125	1.50" to 1.99"	24"	13,800 LB	1.43 LB
00670-200	2.00" to 2.49"	24"	14,200 LB	1.47 LB
00670-250	2.50" to 2.99"	28"	17,500 LB	1.90 LB
00671-080	3.00" to 3.74"	30"	18,000 LB	2.59 LB
00671-095	3.75" to 4.24"	32"	26,500 LB	3.52 LB

Always read Breaking Strength, safety and technical data information.
The Approx. Mesh Length is measured at an average grip diameter.



00674 / 00675 SERIES**DOUBLE WEAVE – SINGLE EYE – SLACK GRIP – CLOSED MESH**

These grips offer an offset, flexible eye and durable, double-weave galvanized wire construction - for an offset pull arrangement or pulling at the mid-span of the cable. Use this style if the end is available and the grip can be mounted directly onto the cable, leaving the cable end free.

Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00674-010	0.38" to 0.74"	14"	2,500 LB	0.45 LB
00674-020	0.75" to 1.12"	17"	3,000 LB	0.50 LB
00674-030	1.13" to 1.49"	18"	5,000 LB	0.75 LB
00674-040	1.50" to 1.99"	20"	10,000 LB	1.54 LB
00675-050	2.00" to 2.49"	20"	11,000 LB	1.53 LB
00675-065	2.50" to 2.99"	22"	12,000 LB	1.85 LB
00675-080	3.00" to 3.74"	24"	15,000 LB	2.02 LB
00675-095	3.75" to 4.24"	24"	15,000 LB	4.32 LB

00678 / 00679 SERIES**DOUBLE WEAVE – SINGLE EYE – SLACK GRIP – SPLIT MESH (LACE-UP)**

Similar to the 00674/00675 above, these grips offer an offset eye and double weave wire - for offset or mid-span pulls. Use the laced, split-mesh grips if the end of the cable is not available or the grip cannot be mounted over the end fitting.

Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00678-010	0.38" to 0.74"	14"	4,100 LB	0.40 LB
00678-020	0.75" to 1.12"	17"	4,970 LB	0.53 LB
00678-030	1.13" to 1.49"	18"	8,150 LB	0.81 LB
00678-040	1.50" to 1.99"	20"	12,100 LB	1.47 LB
00679-050	2.00" to 2.49"	21"	16,140 LB	1.74 LB
00679-065	2.50" to 2.99"	22"	16,140 LB	2.09 LB
00679-080	3.00" to 3.74"	24"	20,170 LB	2.69 LB
00679-095	3.75" to 4.24"	24"	23,400 LB	2.94 LB

00680 SERIES**DOUBLE WEAVE – SINGLE EYE – SHOULDERS**

These grips offer a flexible eye with shoulders and double weave galvanized wire construction. The shoulders offer added protection to the utility being pulled in as well as protecting the leading wire strands.

Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00680-025	0.25" to 0.49"	18"	4,800 LB	0.25 LB
00680-038	0.50" to 0.74"	18"	5,800 LB	0.38 LB
00680-050	0.75" to 1.12"	24"	6,700 LB	0.61 LB
00680-100	1.13" to 1.49"	24"	10,000 LB	0.87 LB
00680-125	1.50" to 1.99"	24"	16,400 LB	1.31 LB
00680-200	2.00" to 2.49"	24"	18,500 LB	1.76 LB
00680-250	2.50" to 2.99"	36"	24,500 LB	3.32 LB
00680-300	3.00" to 3.74"	36"	24,500 LB	3.33 LB
00680-350	3.75" to 4.24"	48"	31,000 LB	6.56 LB
00680-400	4.25" to 4.99"	48"	31,000 LB	7.64 LB



Always read Breaking Strength, safety and technical data information.
The Approx. Mesh Length is measured at an average grip diameter.



00682 SERIES TRIPLE WEAVE – ROTARY HEAD – SHOULDERS

These grips offer a stainless steel rotary head with color-coded shoulders and triple-weave galvanized wire construction for extra strength. The shoulders help to protect the leading edge of the cable or ducting and this type should be used for heavy duty applications. The stainless steel rotary head may be fitted to a DCD Line Swivel for smooth rotation or linked to a shackle in the pulling string.

Note: The rotating head does not replace the use of a line swivel, series 00505. There are no bearings to allow rotation under load and severe damage may occur to the utility being installed if this product is used without the correct swivel. Select the appropriate swivel and safe working load based on your applied safety factors.

Part No.	Color Code	Size Range	Approx. Mesh Length	A	B	C	D	Approx. Breaking Strength	Weight
00682-006	DARKGREEN	0.25" to 0.49"	28"	7/8"	5/16"	1/2"	2-3/4"	6,500 LB	0.53 LB
00682-012	BROWN	0.50" to 0.74"	33"	1"	1/2"	9/16"	3-7/8"	10,400 LB	1.05 LB
00682-019	LIGHT BLUE	0.75" to 0.99"	41"	1"	1/2"	9/16"	3-7/8"	16,000 LB	1.54 LB
00682-025	GOLD	1.00" to 1.24"	51"	1-3/8"	1/2"	11/16"	5-3/8"	25,400 LB	3.85 LB
00682-032	BLACK	1.25" to 1.49"	60"	1-5/8"	9/16"	7/8"	6-1/8"	31,700 LB	5.27 LB
00682-038	RED	1.50" to 1.99"	75"	1-7/8"	21/32"	1"	7-3/8"	32,000 LB	7.19 LB
00682-048	YELLOW	2.00" to 2.49"	75"	1-7/8"	21/32"	1"	7-3/8"	44,600 LB	9.51 LB



00690 SERIES DOUBLE WEAVE – ROTARY HEAD – SHOULDERS

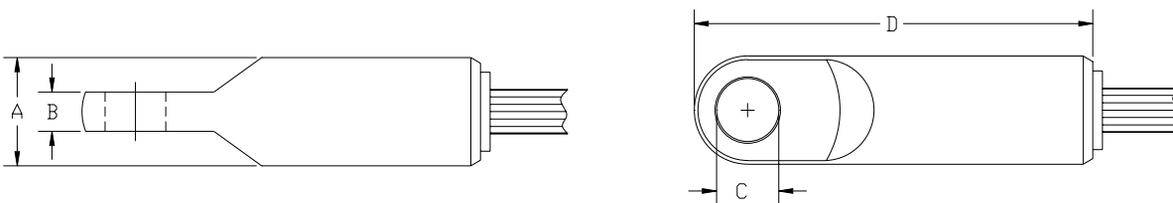
These grips offer a stainless steel rotary head with color-coded shoulders and double-weave galvanized wire construction for durability. The shoulders help to protect the leading edge of the cable or ducting and this type should be used for medium to heavy duty applications. The stainless steel rotary head may be fitted to a DCD Line Swivel for smooth rotation or linked to a shackle in the pulling string.

Note: The rotating head does not replace the use of a line swivel, series 00505. There are no bearings to allow rotation under load and severe damage may occur to the utility being installed if this product is used without the correct swivel. Select the appropriate swivel and safe working load based on your applied safety factors.

Part No.	Size Range	Approx. Mesh Length	A	B	C	D	Approx. Breaking Strength	Weight
00690-038	0.50" to 0.74"	16"	7/8"	5/16"	1/2"	2-3/4"	5,800 LB	0.49 LB
00690-050	0.75" to 1.12"	24"	7/8"	5/16"	1/2"	2-3/4"	6,700 LB	0.72 LB
00690-100	1.13" to 1.49"	33"	1-3/8"	1/2"	11/16"	5-3/8"	13,000 LB	2.31 LB
00690-125	1.50" to 1.99"	36"	1-3/8"	1/2"	11/16"	5-3/8"	16,500 LB	3.00 LB
00690-200	2.00" to 2.49"	36"	1-5/8"	9/16"	7/8"	6-1/8"	21,000 LB	4.27 LB
00690-250	2.50" to 2.99"	38"	1-7/8"	21/32"	1"	7-3/8"	33,000 LB	7.03 LB
00690-300	3.00" to 3.74"	39"	1-7/8"	21/32"	1"	7-3/8"	41,000 LB	7.29 LB
00690-350	3.75" to 4.24"	42"	1-7/8"	21/32"	1"	7-3/8"	48,000 LB	8.55 LB
00690-400	4.25" to 4.99"	58"	1-7/8"	21/32"	1"	7-3/8"	48,000 LB	10.88 LB

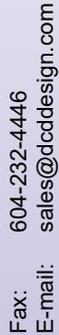


Rotary Head Dimensions



Always read Breaking Strength, safety and technical data information.
The Approx. Mesh Length is measured at an average grip diameter.

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PULLING & SUPPORT GRIPS



00681 SERIES

TRIPLE WEAVE – SINGLE EYE – SHOULDERS

These grips offer a color-coded, flexible eye with shoulders and triple weave galvanized wire construction. The shoulders help to protect the leading edge of the cable or ducting and this type should be used for more demanding, heavy duty applications.

Part No.	Color Code	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00681-006	DARKGREEN	0.25" to 0.49"	28"	6,500 LB	0.41 LB
00681-012	BROWN	0.50" to 0.74"	33"	10,400 LB	0.79 LB
00681-019	LIGHT BLUE	0.75" to 0.99"	41"	16,000 LB	1.47 LB
00681-025	GOLD	1.00" to 1.24"	51"	25,400 LB	3.46 LB
00681-032	BLACK	1.25" to 1.49"	60"	31,700 LB	4.11 LB
00681-038	RED	1.50" to 1.99"	75"	32,000 LB	4.81 LB
00681-048	YELLOW	2.00" to 2.49"	75"	44,600 LB	8.12 LB



00695 SERIES

DUAL WIRE – DOUBLE WEAVE – HIGH STRENGTH – SHOULDERS

These extra high strength grips feature a dual wire, double woven construction. This type of grip should be used for heavy duty applications such as overhead transmission wire. The color-coded grips are particularly suited to bare conductor and synthetic rope applications.

When pulling rope of any kind, it may be difficult to feed the leading end of the rope into the grip and we recommend use of the feed tube shown below.

Part No.	Color Code	Conductor Size Range	Rope Size Range	Approx. Mesh Length	Head Length	Approx. Breaking Strength	Weight
00695-019	BLACK	0.19" to 0.37"	0.25" to 0.65"	24"	10"	6,800 LB	0.61 LB
00695-038	DARKGREEN	0.38" to 0.62"	0.50" to 0.90"	36"	12"	14,500 LB	1.56 LB
00695-063	RED	0.63" to 0.87"	0.75" to 1.10"	48"	13"	21,500 LB	2.53 LB
00695-088	DARK BLUE	0.88" to 1.12"	1.00" to 1.50"	60"	15"	32,000 LB	6.14 LB
00695-113	YELLOW	1.13" to 1.37"	1.25" to 1.70"	76"	18"	48,000 LB	13.06 LB
00695-138	ALUMINUM	1.38" to 1.90"	1.50" to 2.10"	89"	24"	68,000 LB	19.87 LB



00696 SERIES

FEED TUBE FOR 00695 SERIES

When pulling rope, this feed tube can be used to help feed the leading end of the rope into the grip.

Part No.	Rope Size Range	Tube Length	Weight
00696-019	0.25" to 0.65"	28"	0.94 LB
00696-038	0.50" to 0.90"	40"	2.32 LB
00696-063	0.75" to 1.10"	52"	2.71 LB
00696-088	1.00" to 1.50"	67"	5.65 LB
00696-113	1.25" to 1.70"	83"	9.2 LB
00696-138	1.50" to 2.10"	96"	10.28 LB



Always read Breaking Strength, safety and technical data information.
The Approx. Mesh Length is measured at an average grip diameter.



00697 SERIES
DOUBLE WEAVE - OPEN ENDS

These grips are open both ends to butt rope or cable ends together, (ex. for elevator or crane rope replacement), and have a double weave galvanized wire construction. The old cable may be attached to the new one and simply pulled through the blocks.



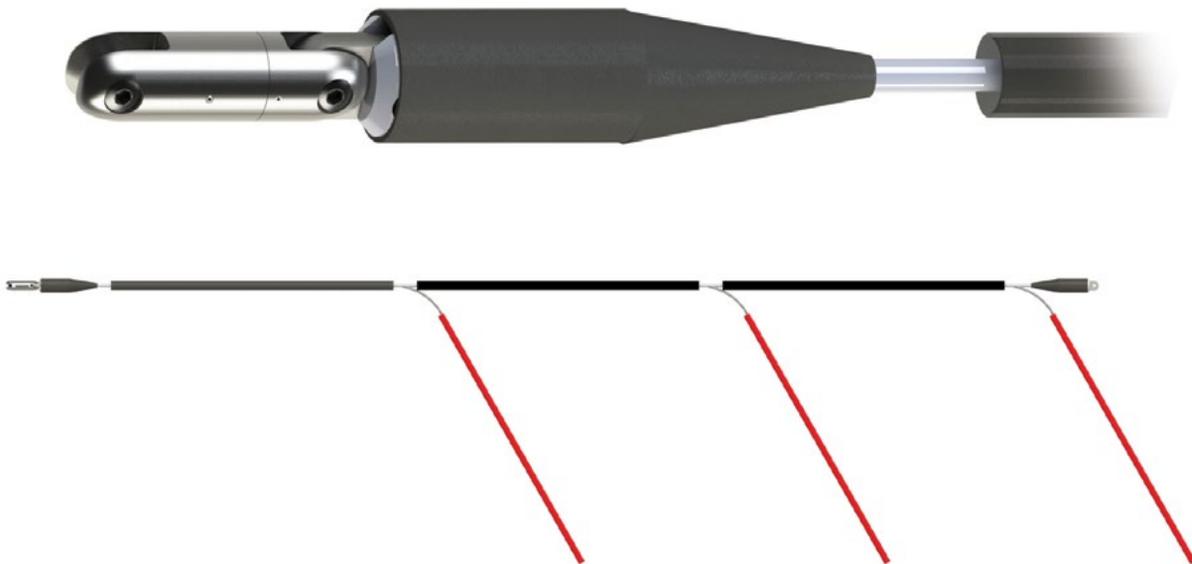
Part No.	Rope Size Range	Mesh Length	Approx. Breaking Strength	Weight
00697-010	0.38" to 0.74"	60"	4100 LB	0.58 LB
00697-020	0.75" to 1.12"	60"	4974 LB	0.83 LB

Always read Breaking Strength, safety and technical data information.
 The Approx. Mesh Length is measured at an average grip diameter.

00698-035
FIBER HEADBOARD

The Fiber Headboard is an anti-torsional device for pulling OPGW cable. It incorporates a 00505-035 series swivel at the lead (pulling line) end, a 00520-035 can-link connector at the tail (OPGW cable) end, and three dangling arms providing the torque stability required to prevent turning.

Part No.	Weight	Approximate Length	5:1 Safe Working Load
00698-035	100LBS	20 FT	8500 LBS



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SUPPORT GRIPS

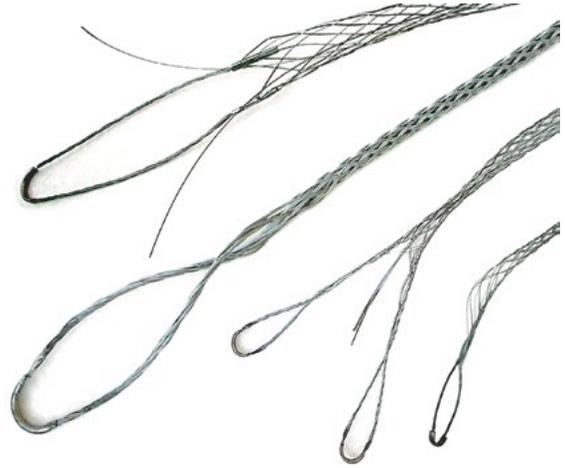
Cable support grips are used for supporting any kind of cable in permanent installations. They can be used in either horizontal or vertical installations to relieve the cable weight from connections and fixtures.

DCD grips are manufactured of durable galvanized steel wire for indoor or under cover installations. For installations exposed to weather, stainless steel versions are available for all types.

DCD offers three basic types of eye: single, double or offset. Each type is available in single weave for light duty applications, double weave for heavy duty applications, or lace-up weave when the cable end is not available for slipping the grip over. See the following pages for details.

Support grips are produced to your demand – particularly in stainless steel - except in some of the most common sizes. (Typically, support grips are ordered in bulk for annual utility supply contracts.) Please allow 4 to 6 weeks for delivery, some exceptions may apply.

Always contact customer service for availability.



SELECTING THE CORRECT GRIP

Grips are designed for a specific range of cable diameter. To select the correct grip for the job you are pulling:

1. Determine the outside cable diameter. Fit as close as possible to the cable diameter, choosing the size smaller when on a boundary.
2. Wherever possible use a closed mesh that assembles over the cable end. Use a split mesh when the cable end is not available.
3. Select the eye style best suited to your requirements.
4. Estimate the tension to be put on the grip, and calculate the working load you require allowing for correct safety factors suitable for the application (3 – 5 times is typical for pulling grips; refer to your local requirements or practices).
5. Taking each of the above into account - look in the size range column of the appropriate grip - and determine the part number best suited to your pull.

00800 SERIES

SINGLE EYE – SINGLE WEAVE – CLOSED MESH

For permanent installations, horizontal or vertical, where the cable end is available for assembly of the support grip.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00800-016	00800-016S	0.15" to 0.24"	4"	350 LB	0.02 LB
00800-024	00800-024S	0.25" to 0.29"	4"	550 LB	0.03 LB
00800-031	00800-031S	0.30" to 0.39"	5"	900 LB	0.04 LB
00800-039	00800-039S	0.40" to 0.49"	5"	900 LB	0.04 LB
00800-051	00800-051S	0.50" to 0.62"	7"	900 LB	0.04 LB
00800-063	00800-063S	0.63" to 0.74"	10"	1,750 LB	0.11 LB
00800-079	00800-079S	0.75" to 0.99"	10"	2,100 LB	0.12 LB
00800-098	00800-098S	1.00" to 1.24"	13"	3,050 LB	0.19 LB
00800-118	00800-118S	1.25" to 1.49"	13"	3,050 LB	0.20 LB
00800-150	00800-150S	1.50" to 1.74"	15"	3,050 LB	0.21 LB
00800-173	00800-173S	1.75" to 1.99"	15"	4,050 LB	0.31 LB
00800-197	00800-197S	2.00" to 2.49"	19"	5,700 LB	0.55 LB
00800-252	00800-252S	2.50" to 2.99"	19"	5,700 LB	1.00 LB
00800-299	00800-299S	3.00" to 3.49"	19"	14,250 LB	1.10 LB
00800-350	00800-350S	3.50" to 3.99"	20"	14,250 LB	1.30 LB



Always read Breaking Strength, safety and technical data information. The Approx. Mesh Length is measured at an average grip diameter.

For Stainless Steel grips, reduce Approx. Breaking Strength by 10%.

00801 SERIES

DOUBLE EYE – SINGLE WEAVE – CLOSED MESH

Fitted with a double eye, for permanent installations where the cable end is available for assembly of the support grip.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00801-051	00801-051S	0.50" to 0.62"	7"	900 LB	0.05 LB
00801-063	00801-063S	0.63" to 0.74"	10"	1,750 LB	0.09 LB
00801-079	00801-079S	0.75" to 0.99"	10"	2,100 LB	0.11 LB
00801-098	00801-098S	1.00" to 1.24"	13"	3,050 LB	0.19 LB
00801-118	00801-118S	1.25" to 1.49"	13"	3,050 LB	0.19 LB
00801-150	00801-150S	1.50" to 1.74"	15"	3,050 LB	0.21 LB
00801-173	00801-173S	1.75" to 1.99"	15"	4,050 LB	0.35 LB
00801-197	00801-197S	2.00" to 2.49"	19"	5,700 LB	0.43 LB
00801-252	00801-252S	2.50" to 2.99"	19"	5,700 LB	1.01 LB
00801-299	00801-299S	3.00" to 3.49"	19"	14,250 LB	1.23 LB
00801-350	00801-350S	3.50" to 3.99"	20"	14,250 LB	1.32 LB

00802 SERIES

OFFSET EYE – SINGLE WEAVE – CLOSED MESH

For permanent installations where the support point is offset and the cable end is available for assembly of the support grip.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00802-051	00802-051S	0.50" to 0.62"	7"	900 LB	0.04 LB
00802-063	00802-063S	0.63" to 0.74"	10"	1,750 LB	0.09 LB
00802-079	00802-079S	0.75" to 0.99"	10"	2,100 LB	0.11 LB
00802-098	00802-098S	1.00" to 1.24"	13"	3,050 LB	0.16 LB
00802-118	00802-118S	1.25" to 1.49"	13"	3,050 LB	0.17 LB
00802-150	00802-150S	1.50" to 1.74"	15"	3,050 LB	0.18 LB
00802-173	00802-173S	1.75" to 1.99"	15"	4,050 LB	0.27 LB
00802-197	00802-197S	2.00" to 2.49"	19"	5,700 LB	1.01 LB
00802-252	00802-252S	2.50" to 2.99"	19"	5,700 LB	1.01 LB
00802-299	00802-299S	3.00" to 3.49"	19"	14,250 LB	1.10 LB
00802-350	00802-350S	3.50" to 3.99"	20"	14,250 LB	1.32 LB

00810 SERIES

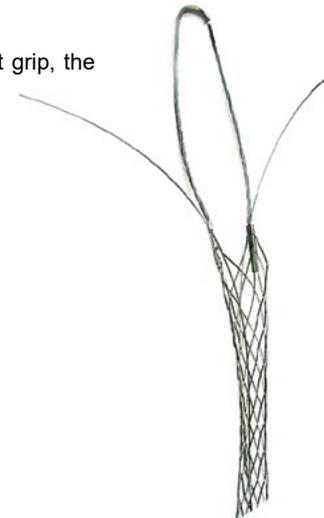
SINGLE EYE – SINGLE WEAVE – SPLIT MESH (LACE UP)

For permanent installations where the cable end is not available for assembly of the support grip, the support grip may be laced over the mid-span.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00810-051	00810-051S	0.50" to 0.62"	5"	900 LB	0.05 LB
00810-063	00810-063S	0.63" to 0.74"	10"	1,750 LB	0.12 LB
00810-079	00810-079S	0.75" to 0.99"	10"	2,100 LB	0.15 LB
00810-098	00810-098S	1.00" to 1.24"	13"	3,050 LB	0.19 LB
00810-118	00810-118S	1.25" to 1.49"	13"	3,050 LB	0.22 LB
00810-150	00810-150S	1.50" to 1.99"	15"	3,050 LB	0.24 LB
00810-197	00810-197S	2.00" to 2.49"	19"	5,700 LB	0.57 LB
00810-252	00810-252S	2.50" to 2.99"	19"	5,700 LB	0.88 LB
00810-299	00810-299S	3.00" to 3.49"	19"	14,250 LB	1.10 LB
00810-350	00810-350S	3.50" to 3.99"	20"	14,250 LB	1.32 LB

Always read Breaking Strength, safety and technical data information.
The Approx. Mesh Length is measured at an average grip diameter.

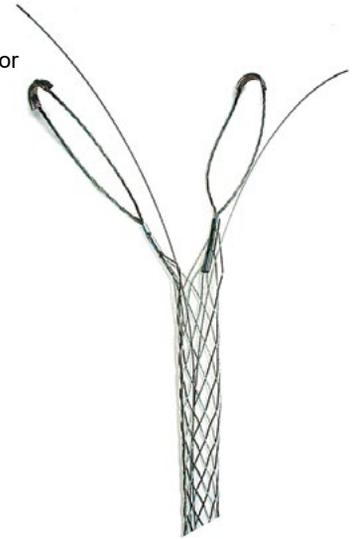
For Stainless Steel grips, reduce Approx. Breaking Strength by 10%.



00811 SERIES**DOUBLE EYE – SINGLE WEAVE – SPLIT MESH (LACE-UP)**

Fitted with a double eye, for permanent installations where the cable end is not available for assembly of the support grip, the support grip may be laced over the mid-span.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00811-051	00811-051S	0.50" to 0.62"	5"	900 LB	0.05 LB
00811-063	00811-063S	0.63" to 0.74"	10"	1,750 LB	0.12 LB
00811-079	00811-079S	0.75" to 0.99"	10"	2,100 LB	0.15 LB
00811-098	00811-098S	1.00" to 1.24"	13"	3,050 LB	0.21 LB
00811-118	00811-118S	1.25" to 1.49"	13"	3,050 LB	0.21 LB
00811-150	00811-150S	1.50" to 1.99"	15"	3,050 LB	0.24 LB
00811-197	00811-197S	2.00" to 2.49"	19"	5,700 LB	0.55 LB
00811-252	00811-252S	2.50" to 2.99"	19"	5,700 LB	0.88 LB
00811-299	00811-299S	3.00" to 3.49"	19"	14,250 LB	1.10 LB
00811-350	00811-350S	3.50" to 3.99"	20"	14,250 LB	1.32 LB

**00812 SERIES****OFFSET EYE – SINGLE WEAVE – SPLIT MESH (LACE-UP)**

For permanent installations where the support point is offset and the cable end is not available for assembly of the support grip, the support grip may be laced over the mid-span.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00812-051	00812-051S	0.50" to 0.62"	5"	900 LB	0.05 LB
00812-063	00812-063S	0.63" to 0.74"	10"	1,750 LB	0.09 LB
00812-079	00812-079S	0.75" to 0.99"	10"	2,100 LB	0.11 LB
00812-098	00812-098S	1.00" to 1.24"	13"	3,050 LB	0.17 LB
00812-118	00812-118S	1.25" to 1.49"	13"	3,050 LB	0.19 LB
00812-150	00812-150S	1.50" to 1.99"	15"	3,050 LB	0.19 LB
00812-197	00812-197S	2.00" to 2.49"	19"	5,700 LB	0.56 LB
00812-252	00812-252S	2.50" to 2.99"	19"	5,700 LB	1.01 LB
00812-299	00812-299S	3.00" to 3.49"	19"	14,250 LB	1.23 LB
00812-350	00812-350S	3.50" to 3.99"	20"	14,250 LB	1.32 LB

**00820 SERIES****SINGLE EYE – DOUBLE WEAVE – CLOSED MESH**

For heavy duty permanent installations where the cable end is available for assembly of the support grip. For heavy duty permanent installations, horizontal or vertical, where the cable end is available for assembly of the support grip.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00820-039	00820-039S	0.38" to 0.74"	25"	5,800 LB	0.42 LB
00820-079	00820-079S	0.75" to 1.12"	25"	6,650 LB	0.60 LB
00820-118	00820-118S	1.13" to 1.49"	30"	10,000 LB	1.11 LB
00820-157	00820-157S	1.50" to 1.99"	34"	13,800 LB	1.50 LB



Always read Breaking Strength, safety and technical data information.
The Approx. Mesh Length is measured at an average grip diameter.

For Stainless Steel grips, reduce Approx. Breaking Strength by 10%.

00821 SERIES**DOUBLE EYE – DOUBLE WEAVE – CLOSED MESH**

Fitted with a double eye, for heavy duty permanent installations where the cable end is available for assembly of the support grip.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00821-079	00821-079S	0.75" to 1.12"	25"	6,650 LB	0.60 LB
00821-118	00821-118S	1.13" to 1.49"	30"	10,000 LB	1.14 LB
00821-150	00821-150S	1.50" to 1.99"	34"	13,800 LB	1.64 LB
00821-197	00821-197S	2.00" to 2.49"	37"	15,000 LB	2.02 LB
00821-256	00821-256S	2.50" to 3.12"	43"	17,500 LB	3.45 LB
00821-315	00821-315S	3.13" to 3.74"	43"	18,000 LB	4.14 LB

**00830 SERIES****SINGLE EYE – DOUBLE WEAVE – SPLIT MESH (LACE-UP)**

For heavy duty permanent installations where the cable end is not available for assembly of the support grip, the support grip may be laced over the mid-span.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00830-079	00830-079S	0.75" to 1.12"	25"	6,650 LB	0.62 LB
00830-118	00830-118S	1.13" to 1.49"	30"	10,000 LB	1.13 LB
00830-150	00830-150S	1.50" to 1.99"	34"	13,800 LB	1.72 LB

**00831 SERIES****DOUBLE EYE – DOUBLE WEAVE – SPLIT MESH (LACE-UP)**

Fitted with a double eye, for heavy duty permanent installations where the cable end is NOT available for assembly of the support grip, the support grip may be laced over the mid-span.

Galvanized Part No.	Stainless Part No.	Size Range	Approx. Mesh Length	Approx. Breaking Strength	Weight
00831-079	00831-079S	0.75" to 1.12"	25"	6,650 LB	0.61 LB
00831-118	00831-118S	1.13" to 1.49"	30"	10,000 LB	1.19 LB
00831-150	00831-150S	1.50" to 1.99"	34"	13,800 LB	1.87 LB
00831-197	00831-197S	2.00" to 2.49"	37"	15,000 LB	2.77 LB
00831-256	00831-256S	2.50" to 3.12"	39"	17,500 LB	3.68 LB
00831-315	00831-315S	3.13" to 3.74"	43"	18,000 LB	4.45 LB



Always read Breaking Strength, safety and technical data information.
The Approx. Mesh Length is measured at an average grip diameter.

For Stainless Steel grips, reduce Approx. Breaking Strength by 10%.

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PULLING & SUPPORT GRIPS

DCD

MULTIPLE CABLE INSTALLATION SELECTION INFORMATION:

Initially determine the type of grip required for the installation. The information on this page will assist you in selecting the correct grip size for installations using multiple cables.

A. When pulling multiple cables of the SAME diameter, refer to Table 1 below to determine the correct grip size.

B. When pulling more than one cable of DIFFERENT diameters measure the circumference of the bundle and refer to Table 2 below to determine the correct grip size.

Once you have determined the equivalent grip size required to fit your bundle, select the appropriate style of grip for your application to obtain the catalog number.

TABLE1: CALCULATING GRIP SIZE FOR MULTIPLE CABLES OF SAME DIAMETER CABLE

Number of Cables in Bundle								Required Grip Dia.
2 Cables Dia. Each	3 Cables Dia. Each	4 Cables Dia. Each	5 Cables Dia. Each	6 or 7 Cables Dia. Each	8 Cables Dia. Each	9 Cables Dia. Each		
0.30"-0.38"	0.25"-0.31"	0.22"-0.27"	0.19"-0.24"	0.17"-0.22"	0.15"-0.19"	0.14"-0.18"	0.50"-0.61"	
0.38"-0.44"	0.31"-0.36"	0.27"-0.31"	0.24"-0.29"	0.22"-0.26"	0.19"-0.23"	0.18"-0.21"	0.62"-0.74"	
0.44"-0.59"	0.36"-0.49"	0.31"-0.42"	0.29"-0.38"	0.26"-0.34"	0.23"-0.31"	0.21"-0.28"	0.75"-0.99"	
0.59"-0.75"	0.49"-0.63"	0.42"-0.54"	0.38"-0.48"	0.34"-0.43"	0.31"-0.39"	0.28"-0.35"	1.00"-1.24"	
0.75"-0.90"	0.63"-0.76"	0.54"-0.65"	0.48"-0.58"	0.43"-0.52"	0.39"-0.46"	0.35"-0.42"	1.25"-1.49"	
0.90"-1.07"	0.76"-0.89"	0.65"-0.77"	0.58"-0.67"	0.52"-0.60"	0.46"-0.54"	0.42"-0.49"	1.50"-1.74"	
1.07"-1.22"	0.89"-1.02"	0.77"-0.88"	0.67"-0.77"	0.60"-0.69"	0.54"-0.62"	0.49"-0.56"	1.75"-1.99"	
1.22"-1.53"	1.02"-1.28"	0.88"-1.10"	0.77"-0.96"	0.69"-0.86"	0.62"-0.77"	0.56"-0.71"	2.00"-2.49"	
1.53"-1.83"	1.28"-1.53"	1.10"-1.32"	0.96"-1.16"	0.86"-1.03"	0.77"-0.93"	0.71"-0.85"	2.50"-2.99"	
1.83"-2.14"	1.53"-1.79"	1.32"-1.54"	1.16"-1.35"	1.03"-1.20"	0.93"-1.08"	0.85"-0.99"	3.00"-3.49"	
2.14"-2.44"	1.79"-2.05"	1.54"-1.76"	1.35"-1.54"	1.20"-1.37"	1.08"-1.24"	0.99"-1.13"	3.50"-3.99"	
2.44"-2.75"	2.05"-2.30"	1.76"-1.98"	1.54"-1.74"	1.37"-1.55"	1.24"-1.39"	1.13"-1.27"	4.00"-4.49"	
2.75"-3.06"	2.30"-2.56"	1.98"-2.20"	1.74"-1.93"	1.55"-1.72"	1.39"-1.55"	1.27"-1.41"	4.50"-4.99"	

TABLE2: CALCULATING GRIP SIZE FOR BUNDLE OF MIXED CABLES

Circumference	Required Grip Dia.	
1.57"-1.95"	39.9-49.5 MM	0.50"-0.61"
1.95"-2.36"	49.5-59.9 MM	0.62"-0.74"
2.36"-3.14"	59.9-79.8 MM	0.75"-0.99"
3.14"-3.93"	79.8-99.8 MM	1.00"-1.24"
3.93"-4.71"	99.8-119.6 MM	1.25"-1.49"
4.71"-5.50"	119.6-139.7 MM	1.50"-1.74"
5.50"-6.28"	139.7-159.5 MM	1.75"-1.99"
6.28"-7.85"	159.5-199.4 MM	2.00"-2.49"
7.85"-9.42"	199.4-239.3 MM	2.50"-2.99"
9.42"-11.00"	239.3-279.4 MM	3.00"-3.49"
11.00"-12.57"	279.4-319.3 MM	3.50"-3.99"
12.57"-14.14"	319.3-359.2 MM	4.00"-4.49"
14.14"-15.71"	359.2-399.0 MM	4.50"-4.99"



POWER CABLE PULLING EYES

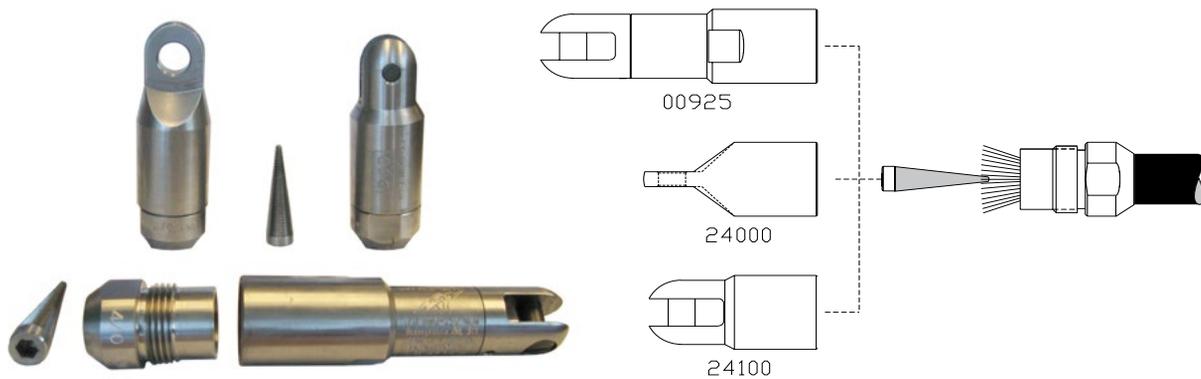
00925 / 24000 / 24100 SERIES

DCD power cable pulling eyes are all designed to offer the shortest possible overall length to help in travel over sheaves or bullwheels and are manufactured from high strength stainless steel.

Three types are offered – the Swivel-Grip™ includes a built in swivel head with load ratings always greater than the cable it is designed to pull. This type of pulling eye is longer than the other types, but is more economical than purchasing a separate swivel. The two Power-Grip™ types do not have a built-in swivel, but are much shorter making bends and sheaves easier to traverse.

Grip is obtained by cutting away the cable jacket, feeding the core through the cone nut and driving the tapered insert into the cable core. The higher the load, the further the insert is drawn into the tapered bore and the firmer the grip becomes. The newly designed cone nuts feature a shortened thread making assembly and removal much quicker.

Thorough testing proves that the grip obtained by this method is better than the strength of the cable itself. It is recommended that these pulling eyes be used only on cables with more than 7 strand conductors. For cables with less than 7 strands use the Mini-Grip™, series 24500.



Custom kits are also available with any of the three types. Shown is a special kit designed for a major mid-west contractor. Their requirement was to pull up to 3 cables of various different sizes. DCD custom designs foam inserts to fit into a metal carrying box or even this large plastic tow-around case. This keeps the products clean and safe and secures them in the box – it is also easy to see if any part is missing.



See our Videos page on our Website for more information!

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00925-KT1 - SIZE RANGE: 1/0 AWG TO 500 MCM

Part No.	Qty	Description	Body Diameter	Max Core Diameter
00926-001	3	Swivel Grip Body 1/0 Awg - 250 MCM	1-1/4"	-
00926-035	3	Swivel Grip Body 350 - 500 MCM	1-7/8"	-
24006-001	3	Threaded Cone Nut 1/0 Awg	-	0.39"
24006-004	3	Threaded Cone Nut 4/0 Awg	-	0.54"
24006-025	3	Threaded Cone Nut 250 MCM	-	0.61"
24006-035	3	Threaded Cone Nut 350 MCM	-	0.71"
24006-050	3	Threaded Cone Nut 500 MCM	-	0.81"
24005-001	6	Tapered Insert 1/0 Awg - 250	-	-
24005-035	6	Tapered Insert 350 - 500 MCM	-	-
00101-250	1	Allen Key 1/4" Long Arm	-	-
00101-375	1	Allen Key 3/8" Long Arm	-	-
93106-015	1	Foam Insert Set	-	-
93100-009	1	Tool Box 19"w X 7"d X 7.5"h	-	-

00925-KT2 - SIZE RANGE: 350 TO 1000 MCM

Part No.	Qty	Description	Body Diameter	Max Core Diameter
00926-035	3	Swivel Grip Body 350 - 500 MCM	1-7/8"	-
24006-035	3	Threaded Cone Nut 350 MCM	-	0.71"
24006-050	3	Threaded Cone Nut 500 MCM	-	0.81"
24005-035	6	Tapered Insert 350 - 500 MCM	-	-
00926-070	3	Swivel Grip Body 700 - 1000 MCM	2-1/8"	-
24006-070	3	Threaded Cone Nut 700 MCM	-	0.97"
24006-075	3	Threaded Cone Nut 750 MCM	-	1.00"
24006-100	3	Threaded Cone Nut 1000 MCM	-	1.15"
24005-070	6	Tapered Insert 700 - 1000 MCM	-	-
00101-250	1	Allen Key 1/4" Long Arm	-	-
00101-375S	1	Allen Key 3/8" Short Arm	-	-
93106-021	1	Foam Insert Set	-	-
93100-012	1	Tool Box 24"w X 8"d X 9"h	-	-

00925-KT3 - SIZE RANGE: 1/0 AWG TO 1000 MCM

Part No.	Qty	Description	Body Diameter	Max Core Diameter
00926-001	3	Swivel Grip Body 1/0 Awg - 250 MCM	1-1/4"	-
24006-001	3	Threaded Cone Nut 1/0 Awg	-	0.39"
24006-002	3	Threaded Cone Nut 2/0 Awg	-	0.44"
24006-003	3	Threaded Cone Nut 3/0 Awg	-	0.50"
24006-004	3	Threaded Cone Nut 4/0 Awg	-	0.54"
24006-025	3	Threaded Cone Nut 250 MCM	-	0.61"
24005-001	15	Tapered Insert 1/0 Awg - 250	-	-
00926-035	3	Swivel Grip Body 350 - 500 MCM	1-7/8"	-
24006-035	3	Threaded Cone Nut 350 MCM	-	0.71"
24006-050	3	Threaded Cone Nut 500 MCM	-	0.81"
24005-035	6	Tapered Insert 350 - 500 MCM	-	-
00926-070	3	Swivel Grip Body 700 - 1000 MCM	2-1/8"	-
24006-070	3	Threaded Cone Nut 700 MCM	-	0.97"
24006-075	3	Threaded Cone Nut 750 MCM	-	1.00"
24006-100	3	Threaded Cone Nut 1000 MCM	-	1.15"
24005-070	9	Tapered Insert 700 - 1000 MCM	-	-
00101-250	1	Allen Key 1/4" Long Arm	-	-
00101-375	1	Allen Key 3/8" Long Arm	-	-
61722-002	1	Chest Unlined	-	-
93106-019	1	Foam Insert Set	-	-



24000-KT1 - SIZE RANGE: 1/0 AWG TO 500 MCM

Part No.	Qty	Description	Body Diameter	Max Core Diameter
24007-001	3	Pulling Eye Body 1/0 Awg - 250 MCM	1-1/4"	-
24007-035	3	Pulling Eye Body 350 - 500 MCM	1-7/8"	-
24006-001	3	Threaded Cone Nut 1/0 Awg	-	0.39"
24006-004	3	Threaded Cone Nut 4/0 Awg	-	0.54"
24006-025	3	Threaded Cone Nut 250 MCM	-	0.61"
24006-035	3	Threaded Cone Nut 350 MCM	-	0.71"
24006-050	3	Threaded Cone Nut 500 MCM	-	0.81"
24005-001	6	Tapered Insert 1/0 Awg - 250	-	-
24005-035	6	Tapered Insert 350 - 500 MCM	-	-
00101-250	1	Allen Key 1/4" Long Arm	-	-
00101-375	1	Allen Key 3/8" Long Arm	-	-
93106-015	1	Foam Insert Set	-	-
93100-009	1	Tool Box 19"w X 7"d X 7.5"h	-	-

24000-KT2 - SIZE RANGE: 350 TO 1000 MCM

Part No.	Qty	Description	Body Diameter	Max Core Diameter
24007-035	3	Pulling Eye Body 350 - 500 MCM	1-7/8"	-
24006-035	3	Threaded Cone Nut 350 MCM	-	0.71"
24006-050	3	Threaded Cone Nut 500 MCM	-	0.81"
24005-035	6	Tapered Insert 350 - 500 MCM	-	-
24007-070	3	Pulling Eye Body 700 - 1000 MCM	2-1/8"	-
24006-070	3	Threaded Cone Nut 700 MCM	-	0.97"
24006-075	3	Threaded Cone Nut 750 MCM	-	1.00"
24006-100	3	Threaded Cone Nut 1000 MCM	-	1.15"
24005-070	6	Tapered Insert 700 - 1000 MCM	-	-
00101-250	1	Allen Key 1/4" Long Arm	-	-
00101-375S	1	Allen Key 3/8" Short Arm	-	-
93106-021	1	Foam Insert Set	-	-
93100-012	1	Tool Box 24"w X 8"d X 9"h	-	-

24000-KT3 - SIZE RANGE: 1/0 AWG TO 1000 MCM

Part No.	Qty	Description	Body Diameter	Max Core Diameter
24007-001	3	Pulling Eye Body 1/0 Awg - 250 MCM	1-1/4"	-
24006-001	3	Threaded Cone Nut 1/0 Awg	-	0.39"
24006-002	3	Threaded Cone Nut 2/0 Awg	-	0.44"
24006-003	3	Threaded Cone Nut 3/0 Awg	-	0.50"
24006-004	3	Threaded Cone Nut 4/0 Awg	-	0.54"
24006-025	3	Threaded Cone Nut 250 MCM	-	0.61"
24005-001	15	Tapered Insert 1/0 Awg - 250	-	-
24007-035	3	Pulling Eye Body 350 - 500 MCM	1-7/8"	-
24006-035	3	Threaded Cone Nut 350 MCM	-	0.71"
24006-050	3	Threaded Cone Nut 500 MCM	-	0.81"
24005-035	6	Tapered Insert 350 - 500 MCM	-	-
24007-070	3	Pulling Eye Body 700 - 1000 MCM	2-1/8"	-
24006-070	3	Threaded Cone Nut 700 MCM	-	0.97"
24006-075	3	Threaded Cone Nut 750 MCM	-	1.00"
24006-100	3	Threaded Cone Nut 1000 MCM	-	1.15"
24005-070	9	Tapered Insert 700 - 1000 MCM	-	-
00101-250	1	Allen Key 1/4" Long Arm	-	-
00101-375	1	Allen Key 3/8" Long Arm	-	-
61722-002	1	Chest Unlined	-	-
93106-019	1	Foam Insert Set	-	-

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CABLE PULLING EYES

DCD



24100-KT1 - SIZE RANGE: 1/0 AWG TO 500 MCM

Part No.	Qty	Description	Body Diameter	Max Core Diameter
24008-001	3	Pulling Eye Body 1/0 Awg - 250 MCM Clevis Style	1-1/4"	-
24008-035	3	Pulling Eye Body 350 - 500 MCM Clevis Style	1-7/8"	-
24006-001	3	Threaded Cone Nut 1/0 Awg	-	0.39"
24006-004	3	Threaded Cone Nut 4/0 Awg	-	0.54"
24006-025	3	Threaded Cone Nut 250 MCM	-	0.61"
24006-035	3	Threaded Cone Nut 350 MCM	-	0.71"
24006-050	3	Threaded Cone Nut 500 MCM	-	0.81"
24005-001	6	Tapered Insert 1/0 Awg - 250	-	-
24005-035	6	Tapered Insert 350 - 500 MCM	-	-
00101-250	1	Allen Key 1/4" Long Arm	-	-
00101-375	1	Allen Key 3/8" Long Arm	-	-
93106-015	1	Foam Insert Set	-	-
93100-009	1	Tool Box 19"w X 7"d X 7.5"h	-	-

24100-KT2 - SIZE RANGE: 350 TO 1000 MCM

Part No.	Qty	Description	Body Diameter	Max Core Diameter
24008-035	3	Pulling Eye Body 350 - 500 MCM Clevis Style	1-7/8"	-
24006-035	3	Threaded Cone Nut 350 MCM	-	0.71"
24006-050	3	Threaded Cone Nut 500 MCM	-	0.81"
24005-035	6	Tapered Insert 350 - 500 MCM	-	-
24008-070	3	Pulling Eye Body 700 - 1000 MCM Clevis Style	2-1/8"	-
24006-070	3	Threaded Cone Nut 700 MCM	-	0.97"
24006-075	3	Threaded Cone Nut 750 MCM	-	1.00"
24006-100	3	Threaded Cone Nut 1000 MCM	-	1.15"
24005-070	6	Tapered Insert 700 - 1000 MCM	-	-
00101-250	1	Allen Key 1/4" Long Arm	-	-
00101-375S	1	Allen Key 3/8" Short Arm	-	-
93106-021	1	Foam Insert Set	-	-
93100-012	1	Tool Box 24"w X 8"d X 9"h	-	-

24100-KT3 - SIZE RANGE: 1/0 AWG TO 1000 MCM

Part No.	Qty	Description	Body Diameter	Max Core Diameter
24008-001	3	Pulling Eye Body 1/0 Awg - 250 MCM Clevis Style	1-1/4"	-
24006-001	3	Threaded Cone Nut 1/0 Awg	-	0.39"
24006-002	3	Threaded Cone Nut 2/0 Awg	-	0.44"
24006-003	3	Threaded Cone Nut 3/0 Awg	-	0.50"
24006-004	3	Threaded Cone Nut 4/0 Awg	-	0.54"
24006-025	3	Threaded Cone Nut 250 MCM	-	0.61"
24005-001	15	Tapered Insert 1/0 Awg - 250	-	-
24008-035	3	Pulling Eye Body 350 - 500 MCM Clevis Style	1-7/8"	-
24006-035	3	Threaded Cone Nut 350 MCM	-	0.71"
24006-050	3	Threaded Cone Nut 500 MCM	-	0.81"
24005-035	6	Tapered Insert 350 - 500 MCM	-	-
24008-070	3	Pulling Eye Body 700 - 1000 MCM Clevis Style	2-1/8"	-
24006-070	3	Threaded Cone Nut 700 MCM	-	0.97"
24006-075	3	Threaded Cone Nut 750 MCM	-	1.00"
24006-100	3	Threaded Cone Nut 1000 MCM	-	1.15"
24005-070	9	Tapered Insert 700 - 1000 MCM	-	-
00101-250	1	Allen Key 1/4" Long Arm	-	-
00101-375	1	Allen Key 3/8" Long Arm	-	-
61722-002	1	Chest Unlined	-	-
93106-019	1	Foam Insert Set	-	-

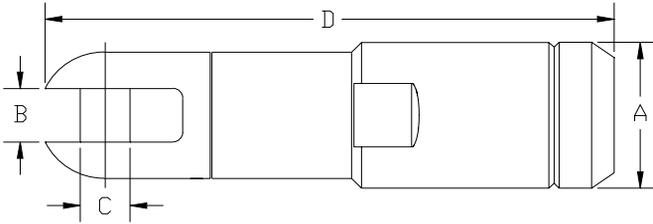


SWIVEL-GRIP™ 00925 SERIES

The Swivel-Grip™ pulling eye is re-usable and has a built in swivel. It is constructed with all the features of the DCD line swivel (00505). The clevis head will attach directly onto a bridle sling or other pulling rope.



Special cone nut sizes for compact cable available on request.



Part No.	Cable Size	Max. Core Dia.	Swivel-Grip Components				Weight	Body	Threaded Cone Nut	Tapered Insert	Fits Bridle Sling
			A	B	C	D					
00925-001	1/0 AWG	0.39" 9.9 MM	1-1/4" 32 MM	13/32" 10.3 MM	3/8" 9.5 MM	5-5/8" 143 MM	1.05 LB 0.47 KG	00926-001	24006-001	24005-001	
00925-002	2/0 AWG	0.44" 11.1 MM	1-1/4" 32 MM	13/32" 10.3 MM	3/8" 9.5 MM	5-5/8" 143 MM	1.03 LB 0.46 KG	00926-001	24006-002	24005-001	
00925-003	3/0 AWG	0.50" 12.7 MM	1-1/4" 32 MM	13/32" 10.3 MM	3/8" 9.5 MM	5-5/8" 143 MM	1.08 LB 0.49 KG	00926-001	24006-003	24005-001	
00925-004	4/0 AWG	0.54" 13.7 MM	1-1/4" 32 MM	13/32" 10.3 MM	3/8" 9.5 MM	5-5/8" 143 MM	0.98 LB 0.44 KG	00926-001	24006-004	24005-001	1/4"
00925-025	250 MCM	0.61" 15.5 MM	1-1/4" 32 MM	13/32" 10.3 MM	3/8" 9.5 MM	5-5/8" 143 MM	0.93 LB 0.42 KG	00926-001	24006-025	24005-001	
00925-030	300 MCM	0.62" 15.7 MM	1-1/4" 32 MM	13/32" 10.3 MM	3/8" 9.5 MM	5-5/8" 143 MM	0.92 LB 0.42 KG	00926-001	24006-030	24005-001	
00925-035C	350 MCM COMPACT	0.65" 16.5 MM	1-7/8" 48 MM	11/16" 17.4 MM	5/8" 15.9 MM	7-1/8" 181 MM	3.34 LB 1.51 KG	00926-035	24006-035C	24005-035	
00925-035	350 MCM	0.71" 18.0 MM	1-7/8" 48 MM	11/16" 17.4 MM	5/8" 15.9 MM	7-1/8" 181 MM	3.3 LB 1.49 KG	00926-035	24006-035	24005-035	1/4" & 3/8"
00925-050	500 MCM	0.81" 20.6 MM	1-7/8" 48 MM	11/16" 17.4 MM	5/8" 15.9 MM	7-1/8" 181 MM	3.2 LB 1.45 KG	00926-035	24006-050	24005-035	
00925-060	600 MCM	0.91" 23.1 MM	1-7/8" 48 MM	11/16" 17.4 MM	5/8" 15.9 MM	7-1/8" 181 MM	3.1 LB 1.41 KG	00926-035	24006-060	24005-035	
00925-070	700 MCM	0.97" 24.6 MM	2-1/8" 54 MM	25/32" 19.8 MM	11/16" 17.4 MM	8" 203 MM	4.7 LB 2.1 KG	00926-070	24006-070	24005-070	
00925-075C	750 MCM COMPACT	0.94" 23.8 MM	2-1/8" 54 MM	25/32" 19.8 MM	11/16" 17.4 MM	8" 203 MM	4.9 LB 2.2 KG	00926-070	24006-075C	24005-070	
00925-075	750 MCM	1.00" 25.4 MM	2-1/8" 54 MM	25/32" 19.8 MM	11/16" 17.4 MM	8" 203 MM	4.7 LB 2.1 KG	00926-070	24006-075	24005-070	3/8" & 1/2"
00925-100C	500 MM ² CUSTOM	1.03" 26.2 MM	2-1/8" 54 MM	25/32" 19.8 MM	11/16" 17.4 MM	8" 203 MM	4.4 LB 2.0 KG	00926-070	24006-100C	24005-070	
00925-100	1000 MCM	1.15" 29.2 MM	2-1/8" 54 MM	25/32" 19.8 MM	11/16" 17.4 MM	8" 203 MM	4.5 LB 2.0 KG	00926-070	24006-100	24005-070	



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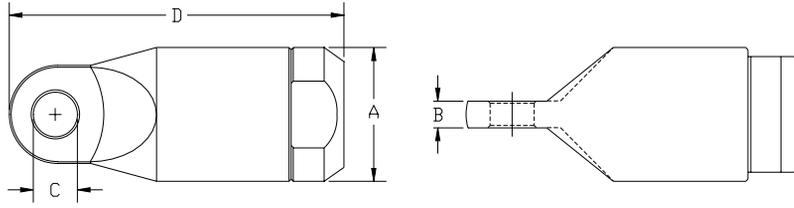
CABLE PULLING EYES



POWER-GRIP™ (LUG) 24000 SERIES

The Power-Grip™ pulling eye is reusable and has a lug style head that will attach directly into a line swivel or other type of connector. All materials are stainless steel. Only 4 body sizes are used to cover the range from 1/0 to 5000 MCM cable.

Note that these pulling eyes should always be used with a line swivel, series 00505.



Part No.	Max. Cable Size	Max. Core Dia.	A	B	C	D	Weight	Swivel-Grip Components			
								Body	Threaded Cone Nut	Tapered Insert	Fits Line Swivels
24000-001	1/0 AWG	0.39" 9.9 MM	1-1/4" 32 MM	11/32" 8.7 MM	1/2" 13 MM	3-7/8" 98 MM	0.70 LB 0.31 KG	24007-001	24006-001	24005-001	
24000-002	2/0 AWG	0.44" 11.1 MM	1-1/4" 32 MM	11/32" 8.7 MM	1/2" 13 MM	3-7/8" 98 MM	0.68 LB 0.30 KG	24007-001	24006-002	24005-001	
24000-003	3/0 AWG	0.50" 12.7 MM	1-1/4" 32 MM	11/32" 8.7 MM	1/2" 13 MM	3-7/8" 98 MM	0.65 LB 0.29 KG	24007-001	24006-003	24005-001	00505-010 to 00505-027
24000-004	4/0 AWG	0.54" 13.7 MM	1-1/4" 32 MM	11/32" 8.7 MM	1/2" 13 MM	3-7/8" 98 MM	0.62 LB 0.28 KG	24007-001	24006-004	24005-001	
24000-025	250 MCM	0.61" 15.5 MM	1-1/4" 32 MM	11/32" 8.7 MM	1/2" 13 MM	3-7/8" 98 MM	0.58 LB 0.26 KG	24007-001	24006-025	24005-001	
24000-030	300 MCM	0.62" 15.7 MM	1-1/4" 32 MM	11/32" 8.7 MM	1/2" 13 MM	3-7/8" 98 MM	0.57 LB 0.26 KG	24007-001	24006-030	24005-001	
24000-035C	350 MCM COMPACT	0.65" 16.5 MM	1-7/8" 48 MM	3/8" 9.5 MM	5/8" 15.9 MM	4-3/4" 120 MM	1.88 LB 0.85 KG	24007-035	24006-035C	24005-035	
24000-035	350 MCM	0.71" 18.0 MM	1-7/8" 48 MM	3/8" 9.5 MM	5/8" 15.9 MM	4-3/4" 120 MM	1.84 LB 0.83 KG	24007-035	24006-035	24005-035	00505-015 to 00505-030
24000-050	500 MCM	0.81" 20.6 MM	1-7/8" 48 MM	3/8" 9.5 MM	5/8" 15.9 MM	4-3/4" 120 MM	1.75 LB 0.79 KG	24007-035	24006-050	24005-035	
24000-060	600 MCM	0.91" 23.1 MM	1-7/8" 48 MM	3/8" 9.5 MM	5/8" 15.9 MM	4-3/4" 120 MM	1.73 LB 0.79 KG	24007-035	24006-060	24005-035	
24000-070	700 MCM	0.97" 24.6 MM	2-1/8" 54 MM	1/2" 13 MM	13/16" 20.5 MM	5-5/8" 142 MM	2.55 LB 1.15 KG	24007-070	24006-070	24005-070	
24000-075C	750 MCM COMPACT	0.94" 23.8 MM	2-1/8" 54 MM	1/2" 13 MM	13/16" 20.5 MM	5-5/8" 142 MM	2.51 LB 1.14 KG	24007-070	24006-075C	24005-070	
24000-075	750 MCM	1.00" 25.4 MM	2-1/8" 54 MM	1/2" 13 MM	13/16" 20.5 MM	5-5/8" 142 MM	2.47 LB 1.12 KG	24007-070	24006-075	24005-070	00505-020 to 00505-035
24000-100C	500 MM ² COMPACT	1.03" 26.2 MM	2-1/8" 54 MM	1/2" 13 MM	13/16" 20.5 MM	5-5/8" 142 MM	2.40 LB 1.09 KG	24007-070	24006-100C	24005-070	
24000-100	1000 MCM	1.15" 29.2 MM	2-1/8" 54 MM	1/2" 13 MM	13/16" 20.5 MM	5-5/8" 142 MM	2.30 LB 1.04 KG	24007-070	24006-100	24005-070	
*24000-125	1250 MCM	1.29" 32.8 MM	2-3/4" 70 MM	3/4" 19 MM	1-1/32" 26 MM	7-15/16" 202 MM	6.37 LB 2.88 KG	24007-125	24006-125	24005-125	
*24000-150	1500 MCM	1.41" 35.8 MM	2-3/4" 70 MM	3/4" 19 MM	1-1/32" 26 MM	7-15/16" 202 MM	6.13 LB 2.78 KG	24007-125	24006-150	24005-125	
*24000-175	1750 MCM	1.53" 38.9 MM	2-3/4" 70 MM	3/4" 19 MM	1-1/32" 26 MM	7-15/16" 202 MM	5.84 LB 2.64 KG	24007-125	24006-175	24005-125	
*24000-200C	45 MM CUSTOM	1.75" 44.5 MM	2-3/4" 70 MM	3/4" 19 MM	1-1/32" 26 MM	7-15/16" 202 MM	5.40 LB 2.45 KG	24007-125	24006-200C	24005-125	00505-035 to 00505-041
*24000-200	2000 MCM	1.63" 41.4 MM	2-3/4" 70 MM	3/4" 19 MM	1-1/32" 26 MM	7-15/16" 202 MM	5.53 LB 2.50 KG	24007-125	24006-200	24005-125	
*24000-300	3000 MCM	1.85" 47.0 MM	2-3/4" 70 MM	3/4" 19 MM	1-1/32" 26 MM	7-15/16" 202 MM	4.33 LB 1.97 KG	24007-125	24006-200	24005-125	
*24000-500	5000 MCM	CONTACT DCD FOR OTHER SIZES UP TO 5000 MCM									

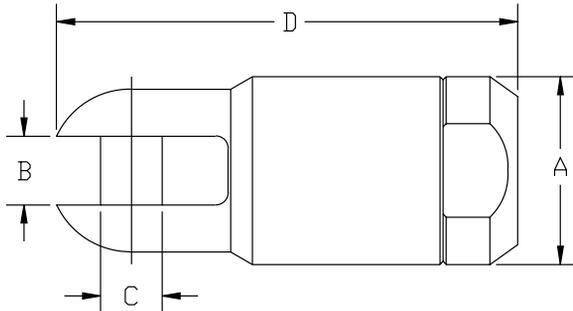
*Note: Larger Power-Grips are machined from alloy steel and plated.



POWER-GRIP™ (CLEVIS) 24100 SERIES

The Power-Grip™ pulling eye is re-usable and has a clevis style head that will attach directly over the looped ends of the bridle slings or other pulling attachments. All materials are stainless steel. Only 4 body sizes are used to cover the range from 1/0 to 2000 MCM cable.

Note that these pulling eyes should always be used with a line swivel, series 00505.



Part No.	Cable Size	Max. Core Dia.	A	B	C	D	Weight	Swivel-Grip Components			Fits Bridle Sling
								Body	Threaded Cone Nut	Tapered Insert	
24100-001	1/0 AWG	0.39" 9.9 MM	1-1/4"	13/32"	3/8"	3-5/8"	0.68 LB 0.30 KG	24008-001	24006-001	24005-001	1/4"
24100-002	2/0 AWG	0.44" 11.1 MM	1-1/4"	13/32"	3/8"	3-5/8"	0.67 LB 0.30 KG	24008-001	24006-002	24005-001	
24100-003	3/0 AWG	0.50" 12.7 MM	1-1/4"	13/32"	3/8"	3-5/8"	0.64 LB 0.29 KG	24008-001	24006-003	24005-001	
24100-004	4/0 AWG	0.54" 13.7 MM	1-1/4"	13/32"	3/8"	3-5/8"	0.61 LB 0.27 KG	24008-001	24006-004	24005-001	
24100-025	250 MCM	0.61" 15.5 MM	1-1/4"	13/32"	3/8"	3-5/8"	0.58 LB 0.26 KG	24008-001	24006-025	24005-001	
24100-030	300 MCM	0.62" 15.7 MM	1-1/4"	13/32"	3/8"	3-5/8"	0.57 LB 0.26 KG	24008-001	24006-030	24005-001	
24100-035C	350 MCM COMPACT	0.65" 16.5 MM	1-7/8"	3/8"	5/8"	4-5/8"	1.94 LB 0.88 KG	24008-035	24006-035C	24005-035	1/4" & 3/8"
24100-035	350 MCM	0.71" 18.0 MM	1-7/8"	3/8"	5/8"	4-5/8"	1.9 LB 0.86 KG	24008-035	24006-035	24005-035	
24100-050	500 MCM	0.81" 20.6 MM	1-7/8"	3/8"	5/8"	4-5/8"	1.8 LB 0.81 KG	24008-035	24006-050	24005-035	
24100-060	600 MCM	0.91" 23.1 MM	1-7/8"	3/8"	5/8"	4-5/8"	1.8 LB 0.82 KG	24008-035	24006-060	24005-035	
24100-070	700 MCM	0.97" 24.6 MM	2-1/8"	25/32"	11/16"	5-1/4"	2.9 LB 1.3 KG	24008-070	24006-070	24005-070	3/8" & 1/2"
24100-075C	750 MCM COMPACT	0.94" 23.8 MM	2-1/8"	25/32"	11/16"	5-1/4"	2.8 LB 1.2 KG	24008-070	24006-075C	24005-070	
24100-075	750 MCM	1.00" 25.4 MM	2-1/8"	25/32"	11/16"	5-1/4"	2.7 LB 1.2 KG	24008-070	24006-075	24005-070	
24100-100C	500 MM ² COMPACT	1.03" 26.2 MM	2-1/8"	25/32"	11/16"	5-1/4"	2.6 LB 1.18 KG	24008-070	24006-100C	24005-070	
24100-100	1000 MCM	1.15" 29.2 MM	2-1/8"	25/32"	11/16"	5-1/4"	2.5 LB 1.1 KG	24008-070	24006-100	24005-070	
*24100-125	1250 MCM	1.29" 32.8 MM	2-3/4"	1"	7/8"	7-1/4"	6.7 LB 3.0 KG	24008-125	24006-125	24005-125	3/8" & 1/2"
*24100-150	1500 MCM	1.41" 35.8 MM	2-3/4"	1"	7/8"	7-1/4"	6.4 LB 2.9 KG	24008-125	24006-150	24005-125	
*24100-175	1750 MCM	1.53" 38.9 MM	2-3/4"	1"	7/8"	7-1/4"	6.2 LB 2.8 KG	24008-125	24006-175	24005-125	
*24100-200C	45 MM CUSTOM	1.75" 44.5 MM	2-3/4"	1"	7/8"	7-1/4"	4.7 LB 2.14 KG	24008-125	24006-200C	24005-125	
*24100-200	2000 MCM	1.63" 41.4 MM	2-3/4"	1"	7/8"	7-1/4"	5.9 LB 2.6 KG	24008-125	24006-200	24005-125	

*Larger Power-Grips are machined from alloy steel and plated.

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CABLE PULLING EYES



MULTIPLEX PUSHING EYE

24200 SERIES

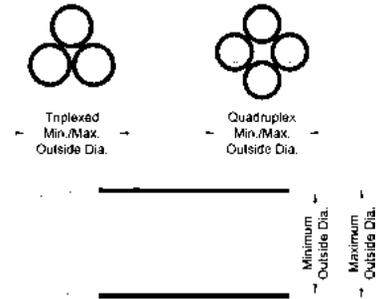
This product is designed to be threaded onto the lead end of a group of either triplex or quadplex cables so that they can be pushed through short lengths of ducting.

The basic pushing eye comes with only the body and a shoulder bolt. There are several different attachments which can be threaded onto the bolt and these must be purchased separately.

These include some of the accessories used with our duct rodders such as the pulling eye, the clevis end and the roller guide as well as a standard eye nut. Any of these can act as a leader for the pushing eye.

Each size of pushing eye can be used to attach to different groups of cable. Because the cables can be in different quantities and diameters, the range for each pushing eye is determined by the diameter around the group of cables. This information is available on the data supplied by the cable manufacturer or it can be measured using the diagram below as a guide.

The 24200-KT1 is a kit comprising one of each size of pushing eye plus one each of the leaders shown in the photograph.



Part No.	Outside Cable Diameter		Weight
	Min.	Max.	
24200-KT1	1.00"	1.59"	2.2 LB
24200-010	1.00"	1.22"	0.63 LB
24200-020	1.22"	1.41"	0.67 LB
24200-030	1.41"	1.59"	0.73 LB

Part No.	Leader Attachments
57150-004	ROLLER GUIDE
57160-004	CLEVIS END
57120-004	PULLING EYE
90024-037	EYE NUT

MULTIPLEX PULLING EYE

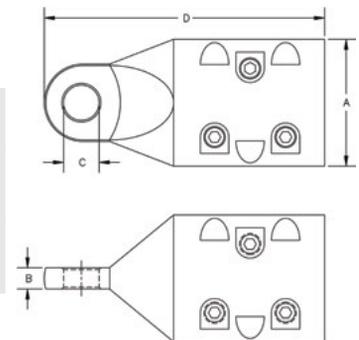
24300 SERIES

This stainless steel product is designed to pull either triplex or quadplex cables.

The 4 holes are sized for the cable conductors and each hole has three setscrews to clamp down on the cable. Each product is also supplied with 3 spare set screws and a hex key.

Care needs to be taken pulling around bends or sheaves because there will be extra heavy load on the cables on the outside of the bend and this may cause them to pull loose from their clamped position in the pulling eye.

Use mainly for short, straight pulls.



Part No.	Max. Cable Size	Max. Core Size	A	B	C	D	Weight	Use with Line Swivel
24300-001	1/0 AWG	0.437"	1-3/4"	3/8"	5/8"	4-15/16"	1.4 LB	00505-015 to 00505-030
24300-004	2/0 AWG	0.593"	2-1/4"	3/8"	5/8"	4-15/16"	2.5 LB	
24300-350	350 MCM	0.750"	2-11/16"	1/2"	13/16"	6"	4.1 LB	00505-020 to 00505-035
24300-500	500 MCM	0.875"	2-7/8"	1/2"	13/16"	6-1/8"	4.5 LB	



MINI-GRIP™

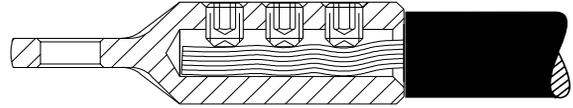
24500 SERIES

The Mini-Grip™ pulling eye is re-usable and has a lug style head that will attach directly into a line swivel or other type of connector. This pulling eye is zinc plated for corrosion and has 3 set screws that clamp directly onto the cable conductor. It is suitable for smaller cables with conductors having 7 strands or less.

Note: These pulling eyes should always be used with a Line Swivel (00505 Series).



For 7 Strand or Less Power Cable				
Part No.	Max Cable Size	Max. Core Dia.	Body Dia.	Weight
24500-343	4 - 3 AWG	0.33"	3/4"	0.30 LB
24500-406	2 - 1/0 AWG	0.39"	7/8"	0.37 LB
24500-562	2/0 - 4/0 AWG	0.55"	1"	0.44 LB



PULLING HARNESS

25000 SERIES

The purpose of this product is to allow single or multiple pulls at one time by attaching 1 or 2 cables to the one pulling harness. The harness legs are manufactured from aircraft quality galvanized wire rope while the connector end is manufactured from stainless steel.

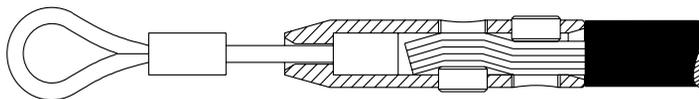
The two leg units are staggered in length so the individual connections are not interfering with each other. The safety factor is based on equal pull on both legs.

The double leg harness is available in long or short configurations and each is supplied with 1 hex key and 4 set screws. The single harness is supplied with 1 hex key and 2 set screws. Both the hex key and the set screws are available separately.

Cable sizes that can be pulled with these harnesses are 2/0 to 4/0 AWG.



Part No.	Description	Wire Dia.	No. of Legs	3:1 Safe Working Load		Weight
				Leg Capacity	Total Capacity	
25000-010	SINGLE LEG	1/4"	1	2,300 LB	2,300 LB	1.00 LB
25000-020	DOUBLELEG-SHORT	1/4"	2	2,300 LB	4,600 LB	1.70 LB
25000-021	DOUBLE LEG - LONG	1/4"	2	2,300 LB	4,600 LB	2.00 LB
90000-166	SET SCREW	-	-	-	-	0.10 LB
00101-375	HEX KEY	-	-	-	-	0.28 LB



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CABLE PULLING EYES



INNERDUCT PULLING EYES

00604 / 00605 / 00615 SERIES

These products are designed to install polyethylene ducting using a screw-in tapered thread to grip the inside diameter of the duct.

The pulling eyes are typically used to install innerduct inside a larger duct. However, the 00604 and 00605 series may also be used for directional drilling applications and because there are no moving parts, they are reliable and maintenance free.

All of these pulling eyes are designed with cutting edges to actually cut a thread in the bore of the ducting as it is being screwed in, much the same way as using a tap to cut a thread in steel. This helps to ensure a reliable grip. Installation typically requires only 7 or 8 full threads of contact to give a grip stronger than the ducting itself.

The pulling eyes are installed quickly and easily and require no special tooling. They are manufactured out of steel and plated for durability and corrosion resistance.

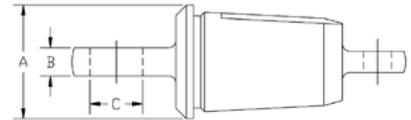


LUG

00604 SERIES

The lug style is recommended when attaching directly to a line swivel or other clevis type connector.

Part No.	Nominal Duct Size	Min. Duct Inside Dia.	Max. Duct Inside Dia.	A	B	C	Weight
00604-050	1/2"	0.47"	0.65"	7/8"	5/16"	7/16"	0.23 LB
00604-075	3/4"	0.72"	0.93"	1-1/8"	11/32"	17/32"	0.51 LB
00604-100	1"	0.94"	1.15"	1-3/8"	11/32"	21/32"	0.79 LB
00604-113*	1-1/4"	1.15"	1.34"	1-1/2"	11/32"	21/32"	1.16 LB
00604-125	1-1/4"	1.26"	1.44"	1-3/4"	11/32"	21/32"	1.40 LB
00604-150	1-1/2"	1.48"	1.66"	2"	1/2"	15/16"	2.03 LB
00604-175	1-3/4"	1.66"	1.81"	2-1/4"	1/2"	15/16"	2.48 LB
00604-200	2"	1.91"	2.08"	2-1/2"	1/2"	15/16"	3.20 LB
00604-010	DRIVING TOOL FOR LUG TYPE PULLERS (WITH 1/2" SQUARE DRIVE)						



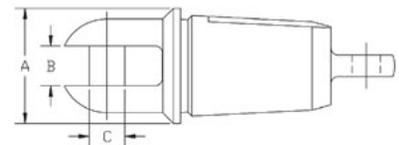
*Telecom

CLEVIS

00605 SERIES

The clevis style pulling eyes are better if attaching to a pulling rope or wire with an eye that can be slotted into the clevis and simply attached with the pin provided.

Part No.	Nominal Duct Size	Min. Duct Inside Dia.	Max. Duct Inside Dia.	A	B	C	Weight
00605-100	1"	0.94"	1.15"	1-3/8"	17/32"	13/32"	0.90 LB
00605-125	1-1/4"	1.26"	1.44"	1-3/4"	17/32"	13/32"	1.48 LB
00605-150	1-1/2"	1.48"	1.66"	2"	11/16"	5/8"	2.20 LB
00605-200	2"	1.91"	2.08"	2-1/2"	11/16"	5/8"	3.35 LB

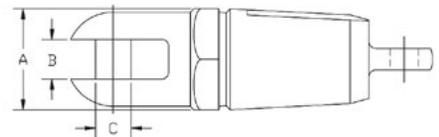


SWIVEL CLEVIS

00615 SERIES

These products are similar to the 00604 and 00605 series, but incorporate a built-in swivel head. They should only be used to install innerduct and are not suitable for use in any kind of directional drilling application.

Part No.	Nominal Duct Size	Min. Duct Inside Dia.	Max. Duct Inside Dia.	A	B	C	Weight
00615-100	1"	0.94"	1.15"	1-1/4"	17/32"	13/32"	0.99 LB
00615-125	1-1/4"	1.26"	1.44"	1-5/8"	17/32"	13/32"	1.57 LB
00615-150	1-1/2"	1.48"	1.66"	1-3/4"	11/16"	5/8"	2.23 LB
00615-200	2"	1.91"	2.08"	2-1/4"	11/16"	5/8"	3.51 LB



VIBRATORY PLOW-GRIPS

00600 SERIES

This product is specifically designed for installation of PVC or PE duct by vibratory plow and is particularly suited to agricultural applications because of its quick installation and removal.

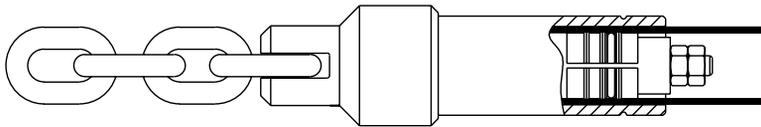
DCD Plow-Grips are comprised of a stainless steel body and a clevis head with 8 links of hardened steel chain attached and hardened stainless steel expanding jaws with teeth that grip the inside of the ducting.

Since there are various outside and inside diameters for ducting, the DCD plow grip now has a single sleeve with a different bore size at each end. Should your ducting not fit at one end, reverse the sleeve and check the other end. The two sleeve sizes will cover 80 lb. and 100 lb. PE duct and Sched. 40 up to SDR 26 PVC duct as well as CSA B137.1 PE duct.

To assemble the Plow-Grip to the ducting, the head is pushed against a spring which contracts the hardened steel jaws. The Plow-Grip can then be sleeved over the ducting. When the head is released, the jaws expand inside the duct and bite into the duct wall. As the pulling load is applied, it increases the bite of the jaws. When the pull is complete, pushing the head down will again contract the jaws allowing the Plow-Grip to be removed from the ducting.



Part No.	Nominal Pipe Size	Min. Duct Inside Dia.	Max. Duct Inside Dia.	Max. Duct Outside Dia.	Weight
00600-075	3/4"	0.82"	0.97"	1.060"	1.56 LB
00600-100	1"	1.05"	1.22"	1.325"	2.24 LB
00600-125	1-1/4"	1.38"	1.54"	1.670"	3.28 LB
00600-200	2"	1.95"	2.23"	2.658"	9.06 LB



The main appeal of this product is the extreme ease of attaching the product to the ducting. This can easily be done in just a few seconds and no tools are required.

Typical vibratory plow action causes a very fine dust or powder to surround the puller, it is recommended that the user periodically dismantle the product for thorough cleaning. A wrench is the only tool required for complete dismantling.

See our Videos page on our Website for more information!

PEST DUCT PULLER

C2012-125 SERIES

The Pest Duct Puller is specifically sized for pulling Dura-Line® HDPE steel armor conduit. The duct puller pulls, seals (tested to over 60 p.s.i.), and prevents the duct from stretching or the layers separating by utilizing the outer body in combination with the expanding jaws. This design also features a full size rear eye nut for back loads.

Duct Puller Part No.	Nominal Duct Dia.	3:1 Safe Working Load	Rear Eye Capacity (SWL)	Inside Duct Diameter				Duct Insertion Depth	Weight
				Decimal		Millimeter			
				Min.	Max.	Min.	Max.		
C2012-125	1-1/4"	3,600 LB	1,000 LB	1.350"	1.600"	34.2	40.6	1.2"	2.2 LB

*Safe Working Load is 3 times 40% of the duct yield strength to protect from creep failure.



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DUCT INSTALLATION & PROOFING

DCD



DUCT PULLERS

00616/00617 SERIES

The 00616/00617 series pullers were designed based on the older 00619 series pullers. After a customer request for a easier to handle puller we created a puller with a steel face plate instead of polyurethane. This design change has been made to satisfy customer request. As with the 00619 series these pullers are designed with a larger expansion range in each unit as compared to the 00620 series.

The puller comes standard with a duct plugger installed and complete with a rear pulling eye. Standard duct sleeves (00625 series) can also be used with this product.

00616 Series Part No.	Nominal Duct Size	Safe Working Load*	Rear Eye Capacity (SWL)	Inside Duct Diameter				Weight	Duct Sleeve Part No.
				Decimal		Millimeter			
				Min.	Max.	Min.	Max.		
00616-125	1-1/4"	2,740 LB	1,100 LB	1.280"	1.610"	32.5	40.9	1.3 LB	00625-125
00616-150	1-1/2"	3,600 LB	1,100 LB	1.437"	1.812"	36.5	46.0	1.5 LB	00625-150
00616-200	2"	5,600 LB	1,300 LB	1.813"	2.188"	46.0	55.6	3.2 LB	00625-200
00616-250	2-1/2"	8,200 LB	1,300 LB	2.188"	2.625"	55.6	66.7	4.5 LB	00625-250
00616-300	3"	12,000 LB	1,300 LB	2.688"	3.125"	68.3	79.4	5.7 LB	00625-300
00616-400	4"	20,000 LB	3,750 LB	3.313"	4.063"	84.1	103.2	14.6 LB	00625-400
00616-500	5"	30,000 LB	3,750 LB	4.250"	5.063"	108.0	128.6	24.5 LB	00625-500
00616-600	6"	42,000 LB	5,100 LB	4.875"	6.187"	123.8	157.1	47.9 LB	00625-600

METRIC

00617 Series Part No.	Nominal Duct Size	Safe Working Load*	Rear Eye Capacity (SWL)	Inside Duct Diameter				Weight	Duct Sleeve Part No.
				Decimal		Millimeter			
				Min.	Max.	Min.	Max.		
00617-040	40 MM	2,460 LB	1,100 LB	1.280"	1.610"	32.5	40.9	1.2 LB	00626-040
00617-050	50 MM	3,850 LB	1,100 LB	1.437"	1.812"	36.5	46.0	1.5 LB	00626-050
00617-063	63 MM	6,100 LB	1,300 LB	1.800"	2.250"	45.7	57.1	3.2 LB	00626-063
00617-075	75 MM	8,650 LB	1,300 LB	2.188"	2.593"	55.6	65.8	4.2 LB	00626-075
00617-090	90 MM	12,500 LB	1,175 LB	2.688"	3.125"	68.3	79.4	5.1 LB	00626-090
00617-110	110 MM	18,600 LB	3,750 LB	3.313"	4.031"	84.1	102.4	13.3 LB	00626-110
00617-125	125 MM	24,000 LB	5,100 LB	3.770"	4.500"	95.7	114.3	15.7 LB	00626-125
00617-140	140 MM	30,200 LB	5,100 LB	4.219"	5.063"	107.2	128.6	19.5 LB	00626-140
00617-160	160 MM	39,400 LB	5,100 LB	4.875"	6.219"	123.8	157.9	41.4 LB	00626-160

DUCT PULLERS

00619 SERIES

The 00619 series Duct Puller are almost identical to the 00616 puller except instead of a face plate made out of steel they have one made out of lighter high wear polyurethane. This puller covers the same expansion ranges as the 00616 series puller and has wider ranges than the 00620 series. Standard duct sleeves (00625 series) can be used with this product.

00619 Series Part No.	Nominal Duct Size	Safe Working Load*	Rear Eye Capacity (SWL)	Inside Duct Diameter				Weight	Duct Sleeve Part No.
				Decimal		Millimeter			
				Min.	Max.	Min.	Max.		
00619-200	2"	5,600 LB	1,300 LB	1.813"	2.188"	46.0	55.6	2.0 LB	00625-200
00619-250	2-1/2"	8,200 LB	1,300 LB	2.188"	2.625"	55.6	66.7	2.6 LB	00625-250
00619-300	3"	12,000 LB	1,300 LB	2.688"	3.125"	68.3	79.4	3.5 LB	00625-300
00619-400	4"	20,000 LB	3,750 LB	3.313"	4.063"	84.1	103.2	8.6 LB	00625-400
00619-500	5"	30,000 LB	3,750 LB	4.250"	5.063"	108.0	128.6	12.3 LB	00625-500
00616-600	6"	42,000 LB	5,100 LB	4.875"	6.187"	123.8	157.1	27.5 LB	00625-600

*Safe Working Load is based on the duct yield strength to protect from creep failure.



DUCT PULLERS

00620/00621 SERIES

These products are designed to grip polyethylene ducting using expanding jaws to grip the inside wall of the duct. This causes the pulling load to be spread around the circumference of the duct and allows a maximum load to be applied without damage to the ducting.

Care should be taken at all times not to exceed the yield value of the ducting since this may cause permanent deformation to the duct as well as loss to the integrity of the polyethylene. On thin wall ducting, it is recommended that an outer duct sleeve be used to prevent the duct stretching during installation. A firmer and more stable grip will also be obtained when this is done. Use of a duct plugger will help to prevent mud and slurry from entering past the puller into the ducting. Duct wall thickness is normally designated by an SDR value. The lower the SDR value, the heavier the wall thickness. These products can be used on SDR 11 through SDR 17 ducting.

When ordering 10" and 12" Duct Pullers, the inside diameter of the duct must be known in order to select the correct duct puller part number. Jaw sets are easily interchangeable in the 10" and 12" size pullers. Alternate jaw sets for different SDR values can be purchased separately.



Part No.	Nominal Duct Size	3:1 Safe Working Load	Rear Eye Capacity (SWL)	Inside Duct Diameter				Duct Sleeve Part No.	Duct Plugger Part No.	Jaw Set Part No.	
				Decimal		Millimeter					
				Min.	Max.	Min.	Max.				
00620-125	1-1/4"	3,750 LB	1,000 LB	1.281"	1.500"	32.5	38.1	1.5 LB	00625-125	00630-125	-
00620-150	1-1/2"	3,750 LB	1,000 LB	1.469"	1.688"	37.3	42.9	1.7 LB	00625-150	00630-150	-
00620-200	2"	6,000 LB	1,500 LB	1.875"	2.125"	47.6	54.0	3.0 LB	00625-200	00630-200	-
00620-250	2-1/2"	6,000 LB	1,500 LB	2.250"	2.500"	57.2	63.5	5.0 LB	00625-250	00630-250	-
00620-300	3"	12,000 LB	2,500 LB	2.750"	3.063"	69.9	77.8	8.5 LB	00625-300	00630-300	-
00620-400	4"	12,000 LB	2,500 LB	3.500"	4.063"	88.9	103.2	15 LB	00625-400	00630-400	-
00620-500	5"	25,500 LB	4,250 LB	4.500"	5.000"	114.3	127.0	32 LB	00625-500	00630-500	-
00620-600	6"	25,500 LB	4,250 LB	5.438"	6.125"	138.1	155.6	48 LB	00625-600	00630-600	-
00620-800	8"	37,000 LB	12,000 LB	6.438"	7.875"	163.5	200.0	88 LB	-	00630-800	-
00620-1009	10" SDR 9	79,000 LB	12,000 LB	7.938"	8.625"	201.6	219.1	135 LB	-	-	00622-1009
00620-1011	10" SDR 11	79,000 LB	12,000 LB	8.375"	9.063"	212.7	230.2	137 LB	-	-	00622-1011
00620-1017	10" SDR 17	79,000 LB	12,000 LB	9.063"	9.750"	230.2	247.7	142 LB	-	-	00622-1017
00620-1209	12" SDR 9	125,000 LB	12,000 LB	9.563"	10.250"	242.9	260.4	190 LB	-	-	00622-1209
00620-1211	12" SDR 11	125,000 LB	12,000 LB	10.063"	10.750"	255.6	273.1	203 LB	-	-	00622-1211
00620-1217	12" SDR 17	125,000 LB	12,000 LB	10.938"	11.563"	277.8	293.7	223 LB	-	-	00622-1217

Note: 00620-1000 & 00620-1200 pullers may be ordered separately, without jaws.

METRIC

These Duct Pullers are the same as the 00620 series but are designed with jaws that allow sizing to metric duct sizes.

Duct Puller Part No.	Nominal Duct Size	3:1 Safe Working Load	Rear Eye Capacity (SWL)	Inside Duct Diameter				Weight	Duct Sleeve Part No.	Duct Plugger Part No.
				Millimeter		Decimal				
				Min.	Max.	Min.	Max.			
00621-040	40 MM	3,750 LB	1,000 LB	32.0	38.0	1.260"	1.496"	1.55 LB	00626-040	00631-040
00621-063	63 MM	6,000 LB	1,500 LB	50.8	57.1	2.000"	2.248"	1.5 LB	00626-063	00631-063
00621-075	75 MM	6,000 LB	1,500 LB	60.3	66.7	2.374"	2.626"	3.0 LB	00626-075	00631-075
00621-090	90 MM	12,000 LB	2,500 LB	73.0	81.0	2.874"	3.189"	5.0 LB	00626-090	00631-090
00621-110	110 MM	12,000 LB	2,500 LB	85.7	100.0	3.374"	3.937"	8.5 LB	00626-110	00631-110
00621-125	125 MM	25,500 LB	4,250 LB	98.8	111.5	3.890"	4.388"	15 LB	00626-125	00631-125
00621-140	140 MM	25,500 LB	4,250 LB	114.0	127.0	4.488"	5.000"	32 LB	00626-140	00631-140
00621-160	160 MM	25,500 LB	4,250 LB	125.4	142.9	4.937"	5.626"	48 LB	00626-160	00631-160
00621-180	180 MM	25,500 LB	4,250 LB	144.5	162.0	5.689"	6.378"	49 LB	-	00631-180
00621-200	200 MM 225 MM	37,000 LB	12,000 LB	163.5	200.0	6.437"	7.874"	135 LB	-	00631-200

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DUCT INSTALLATION & PROOFING

DCD



DUCT PULLERS

00650/00651 SERIES

These products are designed to install polyethylene ducting using expanding jaws to grip the inside diameter of the duct while the outside diameter is prevented from stretching by a permanent outer sleeve on the puller. The outer sleeve also provides a complete seal around the ducting preventing any fluids or contaminants from entering either the duct or the pulling eye.

The pulling head is manufactured from alloy steel and is designed to protect the mechanism from heavy knocks or side loads. It is also fully sealed to prevent any fluid entry.

Care should be taken at all times not to exceed the yield value of the ducting since this may cause permanent deformation to the duct as well as loss to the integrity of the polyethylene.

These duct pullers are installed quickly and easily and require no special tooling. A new tooth profile makes removal much easier than the earlier models.

Duct wall thickness is normally designated by an SDR value. The lower the SDR value, the heavier the wall thickness. These products can be used on SDR 9 through SDR 17 ducting and Schedule 40 pipe.



Part No.	Nominal Duct Size	3:1 Safe Working Load	Rear Eye Capacity (SWL)	Inside Duct Diameter				Outside Duct Diameter		Weight
				Decimal		Millimeter		Decimal	Millimeter	
				Min.	Max.	Min	Max.	Max.	Max.	
00650-125	1-1/4"	3,100 LB	1,000 LB	1.250"	1.500"	31.8	38.1	1.656"	42.1	1.9 LB
00650-150	1-1/2"	3,600 LB	1,000 LB	1.438"	1.688"	36.5	42.9	1.906"	48.4	2.2 LB
00650-200	2"	5,600 LB	1,000 LB	1.813"	2.188"	46.0	55.6	2.375"	60.3	3.9 LB
00650-250	2-1/2"	8,200 LB	1,000 LB	2.188"	2.563"	55.6	65.1	2.875"	73.0	5.6 LB
00650-300	3"	12,200 LB	1,000 LB	2.688"	3.063"	68.3	77.8	3.500"	88.9	7.33 LB
00650-400	4"	20,100 LB	1,500 LB	3.438"	4.250"	87.3	108.0	4.500"	114.3	17.3 LB
00650-500	5"	30,700 LB	1,500 LB	4.313"	5.125"	109.5	130.2	5.563"	141.3	26.5 LB
00650-600	6"	43,600 LB	2,500 LB	5.063"	6.063"	128.6	154.0	6.625"	168.3	48.0 LB

METRIC

These Duct Pullers are the same as the 00650 series but are designed with jaws that allow sizing to metric duct sizes.

Metric Part No.	Nominal Duct Size	3:1 Safe Working Load	Rear Eye Capacity (SWL)	Inside Duct Diameter				Outside Duct Diameter		Weight
				Decimal		Millimeter		Decimal	Millimeter	
				Min.	Max.	Min	Max.	Max.	Max.	
00651-040	40 MM	3,100 LB	1,000 LB	1.280"	1.500"	32.5	38.1	1.575"	40.0	2.1 LB
00651-050	50 MM	3,600 LB	1,000 LB	1.437"	1.736"	36.5	44.1	1.969"	50.0	2.3 LB
00651-063	63 MM	5,600 LB	1,000 LB	2.000"	2.248"	50.8	57.1	2.480"	63.0	4.0 LB
00651-075	75 MM	8,200 LB	1,000 LB	2.374"	2.626"	60.3	66.7	2.953"	75.0	6.0 LB
00651-090	90 MM	12,200 LB	1,000 LB	2.874"	3.189"	73.0	81.0	3.543"	90.0	8.7 LB
00651-110	110 MM	20,100 LB	1,500 LB	3.374"	3.937"	85.7	100.0	4.331"	110.0	17.3 LB
00651-125	125 MM	24,700 LB	1,500 LB	3.890"	4.390"	98.8	111.5	4.921"	125.0	21.2 LB
00651-140	140 MM	30,700 LB	1,500 LB	4.488"	5.000"	114.0	127.0	5.512"	140.0	26.5 LB
00651-160	160 MM	43,600 LB	2,500 LB	4.937"	5.626"	125.4	142.9	6.299"	160.0	57.5 LB

See our Videos page on our Website for more information!

DUCT PULLER REPLACEMENT O-RINGS

90027 SERIES



00616 / 00619 Series

Duct Puller	O-Ring	Qty	Position
00616-125	90027-087	2	JAW
00616-150	90027-118	2	JAW
00616 / 00619-200	90027-138	2	JAW
00616 / 00619-250	90027-175	3	JAW
00616 / 00619-300	90027-213	3	JAW
00616 / 00619-400	90027-287	3	JAW
00616 / 00619-500	90027-3751	3	JAW
00616 / 00619-600	90027-425	3	JAW



00620 Series

Duct Puller	O-Ring	Qty	Position
00620-125	90027-100	2	JAW
00620-150	90027-100	2	JAW
00620-200	90027-175	2	JAW
00620-250	90027-213	3	JAW
00620-300	90027-250	3	JAW
00620-400	90027-250	3	JAW
00620-500	90027-400	4	JAW
00620-600	90027-475	4	JAW
00620-800	90027-5001	3	JAW
00620-1009	90027-6001	3	JAW
00620-1011	90027-6001	3	JAW
00620-1017	90027-6001	3	JAW
00620-1209	90027-7381	5	JAW
00620-1211	90027-7381	5	JAW
00620-1217	90027-7381	5	JAW



00650 Series

Duct Puller	O-Ring	Qty	Position
00650-125	90027-087	2	JAW
	90027-187	1	BODY
	90027-118	2	SHAFT
00650-150	90027-118	2	JAW
	90027-206	1	BODY
	90027-118	2	SHAFT
00650-200	90027-138	2	JAW
	90027-262	1	BODY
	90027-137	2	SHAFT
00650-250	90027-175	3	JAW
	90027-312	1	BODY
	90027-137	2	SHAFT
00650-300	90027-213	3	JAW
	90027-375	1	BODY
	90027-137	2	SHAFT
00650-400	90027-287	3	JAW
	90027-475	1	BODY
	90027-200	2	SHAFT
00650-500	90027-3751	3	JAW
	90027-587	1	BODY
	90027-200	2	SHAFT
00650-600	90027-425	3	JAW
	90027-700	1	BODY
	90027-2501	2	SHAFT

00617 Series

Duct Puller	O-Ring	Qty	Position
00617-040	90027-087	2	JAW
00617-050	90027-118	2	JAW
00617-063	90027-138	2	JAW
00617-075	90027-175	3	JAW
00617-090	90027-213	3	JAW
00617-110	90027-287	3	JAW
00617-125	90027-3751	3	JAW
00617-140	90027-425	3	JAW
00617-160	90027-425	3	JAW

00621 Series

Duct Puller	O-Ring	Qty	Position
00621-040	90027-100	2	JAW
00621-063	90027-175	2	JAW
00621-075	90027-213	3	JAW
00621-090	90027-250	3	JAW
00621-110	90027-250	3	JAW
00621-125	90027-300	4	JAW
00621-140	90027-400	4	JAW
00621-160	90027-413	4	JAW
00621-180	90027-475	4	JAW
00621-200	90027-5001	3	JAW

00651 Series

Duct Puller	O-Ring	Qty	Position
00651-040	90027-087	2	JAW
	90027-1751	1	BODY
	90027-118	2	SHAFT
00651-050	90027-118	2	JAW
	90027-2131	1	BODY
	90027-118	2	SHAFT
00651-063	90027-138	2	JAW
	90027-275	1	BODY
	90027-137	2	SHAFT
00651-075	90027-175	3	JAW
	90027-3251	1	BODY
	90027-137	2	SHAFT
00651-090	90027-213	3	JAW
	90027-387	1	BODY
	90027-137	2	SHAFT
00651-110	90027-287	3	JAW
	90027-462	1	BODY
	90027-200	2	SHAFT
00651-125	90027-325	3	JAW
	90027-525	1	BODY
	90027-200	2	SHAFT
00651-140	90027-3751	3	JAW
	90027-575	1	BODY
	90027-200	2	SHAFT
00651-160	90027-425	3	JAW
	90027-675	1	BODY
	90027-2501	2	SHAFT

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DUCT INSTALLATION & PROOFING



SPIRAL DUCT BRUSH

08000 SERIES

Flat steel bristles spiralled onto heavy duty wire spindle with a pulling eye on one end only. This product will quickly remove grit or light dirt within the duct before installing your cable.

Part No.	Nominal Duct Size	Actual Outside Dia.	Weight
08000-125	1-1/4"	1-1/4"	0.39 LB
08000-150	1-1/2"	1-1/2"	0.41 LB
08000-200	2"	1-7/8"	0.39 LB
08000-250	2-1/2"	2-1/4"	0.67 LB
08000-300	3"	2-3/4"	0.71 LB
08000-350	3-1/2"	3-1/4"	0.75 LB
08000-400	4"	3-5/8"	0.79 LB
08000-500	5"	4-3/8"	0.85 LB
08000-600	6"	5-1/4"	0.92 LB



HEAVY DUTY DUCT BRUSH

08100 SERIES

These heavy duty wire brushes are fitted with a pulling eye on each end so the brush could be pulled back and forth for those extra tough cleaning jobs.

Part No.	Nominal Duct Size	Actual Outside Dia.	Weight
08100-125	1-1/4"	1-1/4"	0.69 LB
08100-150	1-1/2"	1-1/2"	0.74 LB
08100-200	2"	1-7/8"	0.77 LB
08100-250	2-1/2"	2-1/4"	1.21 LB
08100-300	3"	2-3/4"	1.25 LB
08100-350	3-1/2"	3-1/4"	1.39 LB
08100-400	4"	3-5/8"	1.37 LB
08100-500	5"	4-3/8"	1.55 LB
08100-600	6"	5-1/4"	1.82 LB

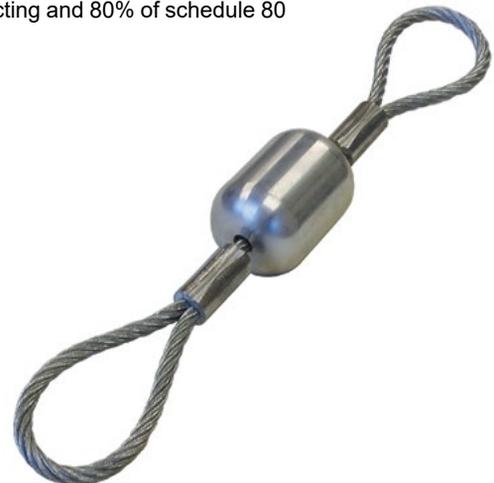


TEST SLUG

08450 SERIES

These Test Slugs are simple aluminum mandrels designed to be pulled through the duct to test for out of roundness. The slug diameters will fill approximately 70% of schedule 40 ducting and 80% of schedule 80 ducting. The ends are rounded for convenient pulling in either direction.

Part No.	Nominal Duct Size	Body Dia.	Body Length	3:1 Safe Working Load	Weight
08450-150	1-1/2"	1.33"	1.68"	2,300 LB	0.4 LB
08450-200	2"	1.73"	2.37"	2,300 LB	0.7 LB
08450-250	2-1/2"	2.06"	2.94"	2,300 LB	1.1 LB
08450-300	3"	2.60"	3.50"	2,300 LB	1.6 LB
08450-350	3-1/2"	2.96"	4.06"	4,800 LB	2.7 LB
08450-400	4"	3.42"	4.81"	4,800 LB	4.1 LB
08450-500	5"	4.30"	5.94"	4,800 LB	7.1 LB
08450-600	6"	5.15"	7.06"	4,800 LB	11.5 LB



STEEL DUCT CHECKER™

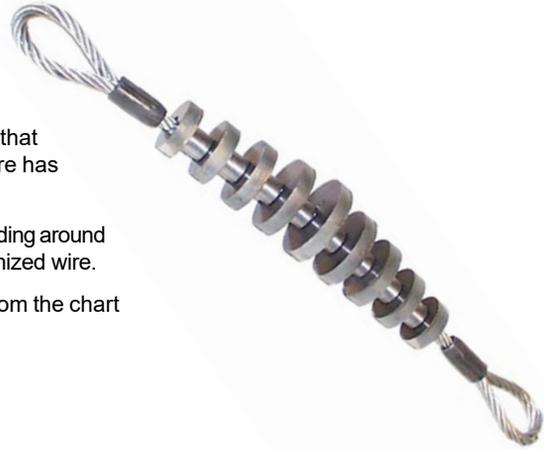
08400 SERIES

Steel Duct Checkers are designed to ensure the duct bore is clear before installing the cable or other utility.

Following initial installation of the ducting, it is often a requirement that certain sized mandrels be pulled through the ducting to ensure that there has been no collapse or obstruction in the duct.

The steel discs are tumbled to ensure no burrs and spacers ensure easy bending around corners. The wire rope running through the mandrel is high quality, galvanized wire.

Check the inside diameter of the ducting before selecting the product from the chart below.



Part No.	Nominal Duct Size	Max. Disc Dia.	3:1 Safe Working Load	Weight
08400-200	2"	1.69"	4,800 LB	3.53 LB
08400-300	3"	2.65"	4,800 LB	5.56 LB
08400-400	4"	3.57"	4,800 LB	10.2 LB
08400-500	5"	4.56"	4,800 LB	17.2 LB
08400-600	6"	5.51"	4,800 LB	25.9 LB
08400-800	8"	7.26"	4,800 LB	45.5 LB

POLY DUCT CHECKER™

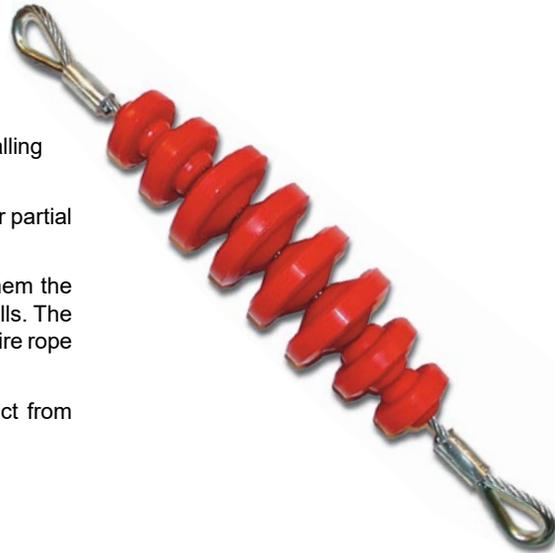
08500 SERIES

Duct Checkers are designed to ensure the duct bore is clear before installing the cable or other utility.

Following initial installation of the ducting, it is often found that debris or partial collapse of the duct will impede installation of the cable.

The discs are manufactured from high density polyurethane giving them the toughness to clear the duct without scraping or scratching the bore walls. The discs are spaced with gaps to allow passage through tight bends. The wire rope running through the mandrel is high quality, galvanized wire.

Check the inside diameter of the ducting before selecting the product from the chart below.



Part No.	Nominal Duct Size	Max. Disc Dia.	3:1 Safe Working Load	Weight
08500-125	1-1/4"	1.19"	1,400 LB	0.42 LB
08500-150	1-1/2"	1.44"	1,400 LB	0.50 LB
08500-200	2"	1.88"	2,300 LB	0.90 LB
08500-250	2-1/2"	2.19"	2,300 LB	1.04 LB
08500-300	3"	2.81"	2,300 LB	1.46 LB
08500-350	3-1/2"	3.25"	4,800 LB	2.57 LB
08500-400	4"	3.75"	4,800 LB	3.45 LB
08500-500	5"	4.69"	4,800 LB	4.71 LB
08500-680	6" SCHED. 80	5.50"	4,800 LB	6.24 LB
08500-640	6" SCHED. 40	5.81"	4,800 LB	7.16 LB
08500-880	8" SCHED. 80	6.86"	4,800 LB	9.30 LB
08500-840	8" SCHED. 40	7.40"	4,800 LB	11.0 LB

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DUCT INSTALLATION & PROOFING

DCD

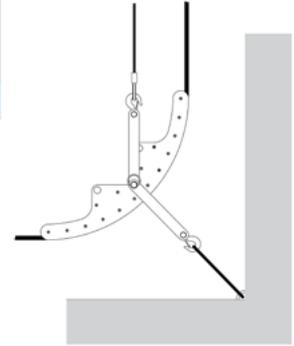
FIBER OPTIC SHEAVES & QUADRANTS

For pulling fiber optic cable, DCD has a special series of sheaves and quadrants that will allow the maximum possible bend radius for the application. All the sheaves are aluminum while the quadrant side plates are 3/16" steel, giving the best combination of light weight and strength.

The F/O Quadrant has 12 rollers set on a 26" radius giving the cable a minimum 26-3/4" inside bend radius.

The one piece F/O Sheave is sized to fit through a 24" manhole and both the sheave and the quadrant can be used in the DCD Manhole Brace.

The hanger arms also separate easily to allow insertion of the sheave or quadrant in the middle of the pull.



F/O Quadrant C/W Single Hanger	Single Hanger Only	F/O Quadrant C/W Double Hanger	Double Hanger Only	Quadrant Only	Sheave Only	Sheave Size W x Dia.
32200-312	32830-301	32220-312	32810-301	32210-312	32900-303	3" x 3"

F/O Sheave C/W Single Hanger	Single Hanger Only	F/O Sheave C/W Double Hanger	Double Hanger Only	F/O Sheave Only	Sheave Size W x Dia.
32000-324	32800-300	32100-324	32810-300	32900-324	3" x 24"

SHEAVE HANGERS

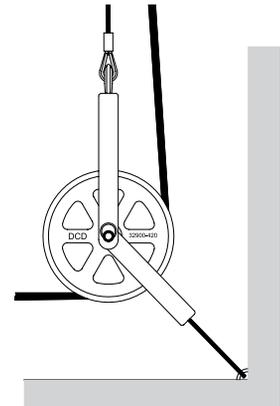
DCD offers single or double hangers to go with their series of cast aluminum sheaves. The single hangers are provided with a safety hook and the double hangers have one hook and one pin through which a rope may be fed or other items attached.

The sheaves are all cast aluminum with machined faces and bores. They are then fitted with high load iron-bronze flanged bushings.

All parts are designed to take 10,000 lbs. line load allowing for a 3:1 safety factor.

One feature of the hangers is the ease with which they are assembled to either a sheave or a quadrant. A simple pin with a handle at one end and a locking pin at the other does the job. It should be noted that the handle at one end of the pin may be used to support the hanger in a horizontal position should that be necessary.

The sheaves and hangers may be purchased as assemblies or individually as shown in the table below.



Sheave C/W Single Hanger	Single Hanger	Sheave C/W Double Hanger	Double Hanger**	Sheave Only	Sheave Size W x Dia.
32000-420	32800-400	32100-420	32810-400	32900-420	4" x 20"
32000-526	32800-500	32100-526	32810-500	32900-526	5" x 26"
32000-611	32800-600	32100-611	32810-600	32900-611	6" x 11"
32000-620F*	32800-600	32100-620F	32810-600	32900-620F	6" x 20"
32000-626	32800-601	32100-626	32810-601	32900-626	6" x 26"
32000-811	32800-800	32100-811	32810-800	32900-811	8" x 11"
32000-811F*	32800-800	32100-811F	32810-800	3290-811F	8" x 11"

* Note: F designates Flat Bottom Sheave.
 ** Note: Double Hangers are supplied with one hook.

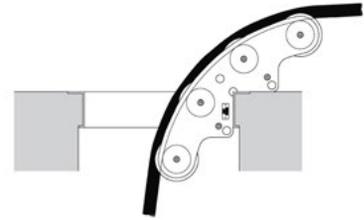
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QUADRANTS & HANGERS

DCD quadrants are designed to withstand up to 10,000 lbs. working line load with a 3:1 safety factor. This means they can be used safely at either the entry end of the installation OR the exit end. The steel side plates along with the high strength bushings on each roller are all designed with strength, safety and weight in mind.

All quadrants have countersunk screws holding the rollers so there are no protrusions from the side plates and the hangers can travel the full arc of the quadrant.



Quadrant C/W Hanger	Quadrant Only	Hanger Only	Sheave Only	Sheave Size W x Dia.	No. of Sheaves	Min. Cable Radius
32200-304	32210-304	32830-300	32900-307	3" x 7"	4	27-7/8"
32200-404	32210-404	32800-400	32900-407	4" x 7"	4	27-7/8"
32200-504	32210-504	32800-500	32900-507	5" x 7"	4	27-7/8"
32200-603	32210-603	32830-600	32900-611	6" x 11"	3	28-3/4"
32200-803	32210-803	32830-800	32900-811	8" x 11"	3	28-3/8"

SHEAVE DATA

All DCD sheaves are cast from 356-T6 aluminum. This is a heat treated material giving over 33,000 lbs of tensile strength making it one of the strongest types of aluminum castings available.

Each sheave is fitted with an iron bronze bushing that take either 1-1/4" or 3/4" diameter shafts. All DCD sheave axles are made from high strength chrome plated shafting. With almost twice the load bearing capability of regular bronze bushings, the DCD sheaves are designed to take the full load at either entry or exit points of the pull.

DCD also offers flat bottom sheaves. The purpose of these sheaves is to allow parallel seating of 3 cables on the sheave – this prevents 'bunching' of the cables which in turn often causes one or more of them to ride up the side of a standard radiused sheave, possibly causing damage to the cable jackets.

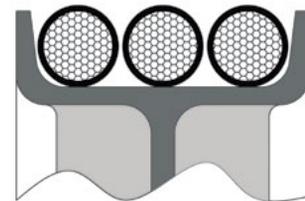


Note: Sheaves are available in Delrin upon request. Contact DCD for more information.

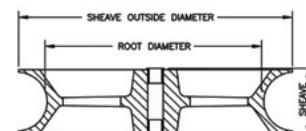
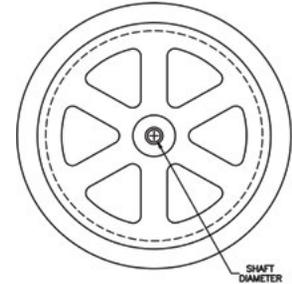
Part No.	Sheave OD	Sheave Width	Max. Cable Dia.	Root Dia.	Shaft Dia.	Weight
32900-202P*	2-3/8"	2-1/4"	1-3/16"	1-1/8"	5/8"	0.2 LB
32900-303	3"	3"	2-1/2"	1-1/2"	3/4"	1.1 LB
32900-307	7"	3-3/8"	3"	3-3/4"	1-1/4"	6 LB
32900-324	23-3/4"	3"	1-3/8"	21-1/4"	1-1/4"	17 LB
32900-407	7"	4"	3-3/4"	3-3/4"	1-1/4"	8 LB
32900-411	11"	4-3/8"	4"	7-1/2"	1-1/4"	15 LB
32900-420	20"	4-3/4"	4"	17"	1-1/4"	31 LB
32900-507	7"	4-3/4"	4-5/8"	3-3/4"	1-1/4"	9 LB
32900-511	11"	5-3/8"	5"	6-1/2"	1-1/4"	18 LB
32900-526	26-5/8"	5-3/8"	4-7/8"	22-1/2"	1-1/4"	49 LB
32900-526F**	26-5/8"	5-3/8"	3 x 1-1/2"	23-1/2"	1-1/4"	51 LB
32900-611	11"	6-3/8"	5-7/8"	5-1/2"	1-1/4"	21 LB
32900-620F**	20-7/8"	6-3/8"	3 x 1-3/4"	17"	1-1/4"	47 LB
32900-626	26-5/8"	6-3/8"	5-7/8"	21"	1-1/4"	65 LB
32900-702	3"	7"	3/4"	1-1/2"	N/A	5 LB
32900-811	11"	8-3/8"	8"	4-3/4"	1-1/4"	27 LB
32900-811F**	11"	8-3/8"	3 x 2-3/8"	6"	1-1/4"	24 LB

* Note: P designates Polyurethane Sheave.

** Note: F designates Flat Bottom Sheave.



Flat Bottom Sheave section shown with 3 cables side by side.



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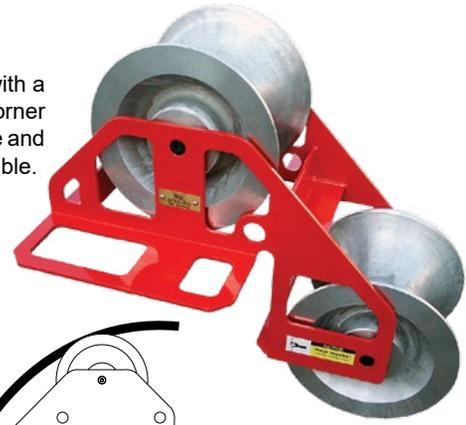
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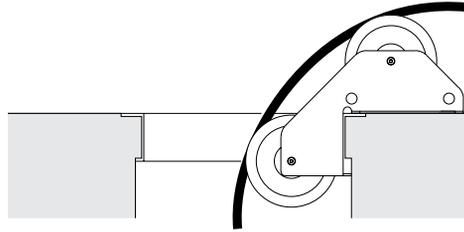
CORNER GUIDES

DCD Corner Guides are designed to withstand a 10,000 lb working line load with a 3:1 safety factor. The sheaves run in high strength iron-bronze bushings. The Corner Guides also have a wide base for stability, a deep lip for hooking into the manhole and two locations for hold down bars and lightening holes added everywhere possible.



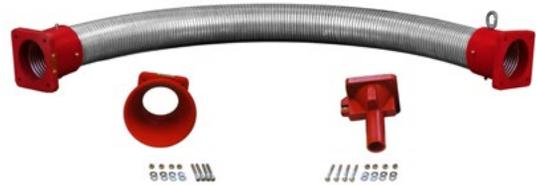
Guide Part No.	Sheave Only	Sheave Size W x Dia.	Weight
32300-400	32900-411	4" x 11"	58.5 LB
32300-500	32900-511	5" x 11"	63.5 LB
32300-600	32900-611	6" x 11"	70.5 LB
32300-800	32900-811	8" x 11"	88.5 LB

Note: Add F to part # for Flat Bottom Sheave.



FLEXIBLE CABLE GUIDES

The DCD Flexible Cable Guide comes in 5 ft or 10 ft lengths. Custom lengths are also available. At each end there is a polyurethane coupling that can be used for attaching two lengths together and for attaching the duct adapter and the cable entry cone.



There are 3 different diameters or sizes of flexible guides. The 4" size has adapters suitable for 2", 3" and 4" duct sizes, the 5" size only fits 5" duct and the larger 6" unit has adapters suitable for 4", 5" and 6" ducting.

Each duct adapter is fitted with a spray nozzle suitable for the DCD TUBE-LUBE® 326. There is one half of a quick-disconnect coupling attached to the nozzle that will direct the lubricant onto the cable as it is fed into the ducting.

Like the end fittings, the duct adapters are made from polyurethane and are also sold separately.

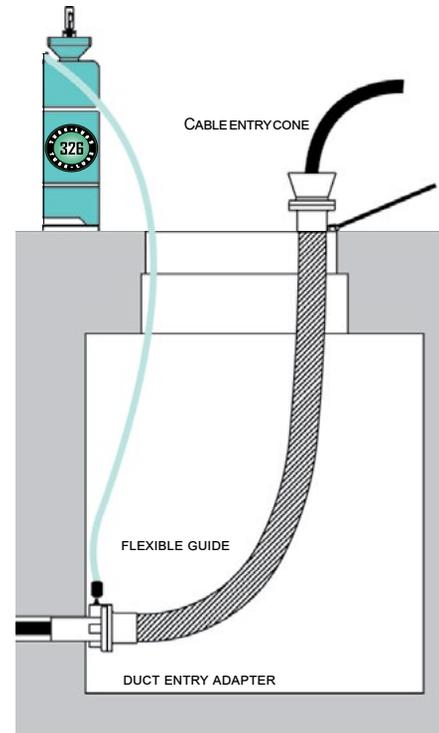
FLEXIBLEGUIDECHART

Flexible Guide Part No.	Dia.	Length	Cable Entry Cone Part No.
32600-405	4"	5'	32610-400
32600-410	4"	10'	32610-400
32600-505	5"	5'	32610-500
32600-510	5"	10'	32610-500
32600-605	6"	5'	32610-600
32600-610	6"	10'	32610-600

Note: Custom lengths available, contact customer service.

DUCTENTRYADAPTER

Duct Entry Part No.	Use with Flexible Guide Dia.	Nominal Duct Size
32620-420	4"	2"
32620-425	4"	2-1/2"
32620-430	4"	3"
32620-440	4"	4"
32620-550	5"	5"
32620-635	6"	3-1/2"
32620-640	6"	4"
32620-650	6"	5"
32620-660	6"	6"



DUCT ENTRY GUIDE

32500 SERIES

The Duct Entry Guide is unique for two reasons.

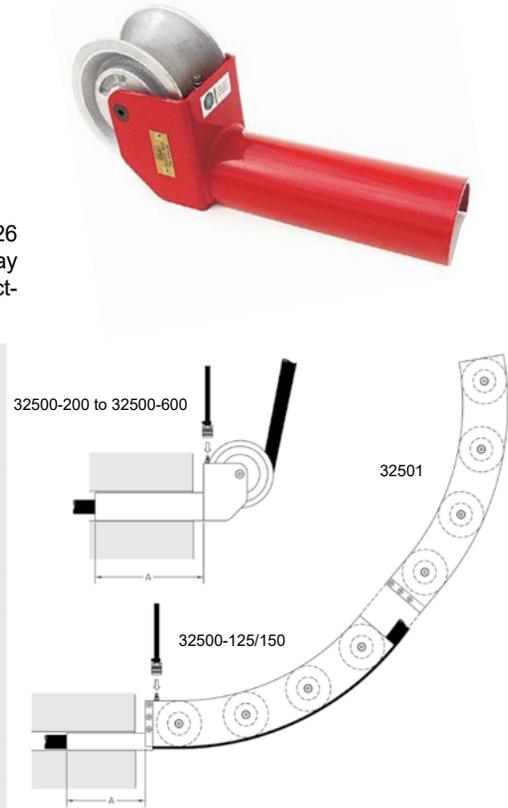
First, it has an extra long tube section that goes inside the duct (See dimension A below) for greater stability.

Second, because of the built-in spray nozzle for the DCD TUBE-LUBE® 326 application, there is one half of a quick-disconnect coupling attached to a spray nozzle that will direct the lubricant right onto the cable as it is fed into the ducting. This is a unique feature for a unique lubricant.

Part No.	Duct Dia.	3:1 Safe Working Load	A	Weight	Spare Sheave
32500-125*	1-1/4"	3,000 LB	7-1/2"	7.4 LB	32900-202P**
32500-150*	1-1/2"	3,000 LB	7-1/2"	7.5 LB	32900-202P**
32501-125*	EXTENSION QUADRANT	3,000 LB	N/A	5.7 LB	32900-202P**
32500-200	2"	3,000 LB	7-1/2"	5.3 LB	32900-303
32500-250	2-1/2"	3,000 LB	7-1/2"	5.7 LB	32900-303
32500-300	3"	6,000 LB	9-1/2"	14.1 LB	32900-307
32500-400	4"	6,000 LB	11-1/2"	19 LB	32900-407
32500-480	4" SCHED 80	6,000 LB	11-1/2"	17 LB	32900-407
32500-500	5"	6,000 LB	13-1/2"	24 LB	32900-507
32500-600	6"	6,000 LB	15-1/2"	44 LB	32900-611

* Note: For use with Fiber Optic Cable only. Extension Quadrant may be used with -125 & -150 only.

** Note: P designates Polyurethane Sheaves.

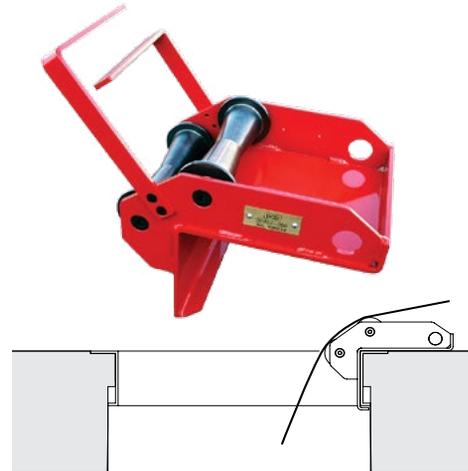


WIRE ROPE GUIDE

32400 SERIES

DCD Wire Rope Guides are designed to withstand over 10,000 lbs. safe working line load. The hardened rollers run on ball bearings at each end for smooth easy rotation and the rollers have a flange at each end to prevent the rope from riding off either side. The product also has an extra deep lip to hook into the manhole.

Part No.	3:1 Safe Working Load	Sheave Width	Sheave Dia.	Weight	Sheave Only
32400-200	10,000 LB	7"	2"	28 LB	32900-702



RIM ROLLER

32450 SERIES

This product is designed to fit over the rim surrounding many electrical installations. While cable is being installed, this product will allow the cable to run over that rim without tearing or damaging the jacket.

Part No.	3:1 Safe Working Load	Sheave Width	Sheave Dia.	Weight	Sheave Only
32450-400	10,000 LB	4"	7"	14.5 LB	32900-407



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MANHOLE TOOLS

DCD

METER BOX PULLER

32460 SERIES

Designed for use by power utilities or contractors who are pulling new residential service lines through conduit. The head of the Meter Box Puller fits snugly in the meter enclosure, while the handle is strapped to the PVC conduit that goes from the ground to the meter box. During the pull, the sheaves in the head make the pull easier, while the handle presses against the PVC conduit helping to keep the conduit and the meter box from pulling out from the wall.

Part No.	3:1 Safe Working Load	Nominal PVC Conduit Dia.	Weight
32460-000	1,250 LB	3" TO 4"	8.1 LB
32460-300	1,250 LB	3"	7.8 LB



CABLE SEPARATORS

32650 / 32655 SERIES

Polyurethane Cable Separators are available in 3 way or 4 way units to suit 4", 5" or 6" ducting. They are designed to fit in the feed-in end of the duct and to align multiplex cable for smoother entry into the duct.

Part No.	Nominal Duct Size	Style	Color Code	Weight
32650-400	4"	3-WAY	RED	1.0 LB
32650-500	5"	3-WAY	RED	1.4 LB
32650-600	6"	3-WAY	RED	1.5 LB
32655-400	4"	4-WAY	BLACK	1.4 LB
32655-500	5"	4-WAY	BLACK	2.0 LB
32655-600	6"	4-WAY	BLACK	2.2 LB



SPLIT ENTRY BELLS

32550 SERIES

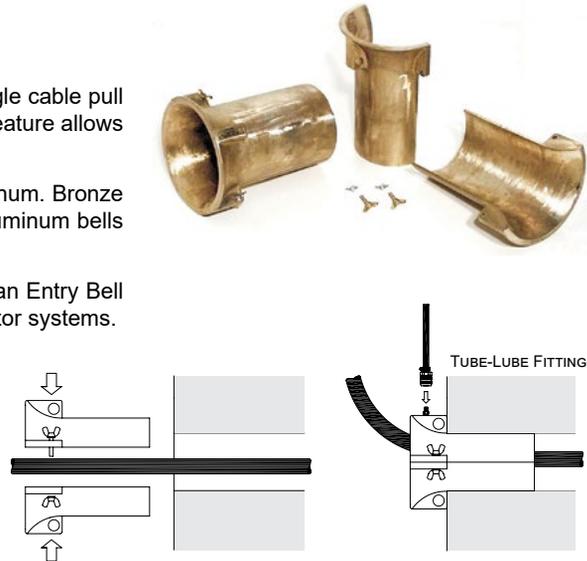
The DCD Split Entry Bell is designed to allow continuation of a single cable pull through a manhole – out one side and into another side. The split feature allows removal of the guide after installation.

Split Bells are available in long wearing bronze or lower cost aluminum. Bronze bell halves are held together with wing nuts and bolts while the aluminum bells use dowel pins and one lug has a 3/4" diameter lifting hole.

By adding an L to the end of the part number, you can also order an Entry Bell complete with a Lube Fitting for the DCD TUBE-LUBE® 326 applicator systems.

Aluminum Bell Part No.	Bronze Bell Part No.	Nominal Duct Dia.	Aluminum Weight	Bronze Weight
32550-200A	32550-200B	2"	2.0 LB	5.7 LB
32550-300A	32550-300B	3"	2.6 LB	7.2 LB
32550-400A	32550-400B	4"	3.3 LB	9.4 LB
32550-450A	32550-450B	4-1/2"	3.5 LB	9.4 LB
32550-500A	32550-500B	5"	4.1 LB	11.5 LB
32550-600A	32550-600B	6"	4.8 LB	13.1 LB

Note: Add "L" to end of part number for lubrication part number.



POLY ENTRY BELL

32510 SERIES

This product is used for guiding the cable into the ducting. The polyurethane material is self lubricating which helps to smooth the passage of cable into the duct.

Part No.	Nominal Duct Dia.	Weight
32510-300	3"	0.9 LB
32510-400	4"	1.4 LB
32510-500	5"	1.7 LB



NYLON CABLE PROTECTOR

32560 SERIES

These products are common to the industry and serve to protect the cable while being fed into the duct. They may be left in place if there is concern about wear between the duct edge and the cable.

The below part number indicates a box of 10 pieces. They are not sold individually.

Part No.	Description	Weight
32560-200	FOR 2" - 2-1/2" DUCT (PACKAGE OF 10 PIECES)	0.70 LB
32560-300	FOR 3" - 6" DUCT (PACKAGE OF 10 PIECES)	1.40 LB



SAFETY LIFTING BAR

32950 SERIES

This product is simply a plain bar that can be used to prevent products such as the corner guides, quadrants or wire rope guides from falling into the manhole. Each of these products has one or two holes through them which allows the safety bar to be positioned and tied back if needed.

This product can also be used by two people to carry heavier products between them.

Part No.	Length	Dia.	Weight
32950-048	48"	1-1/4"	16 LB



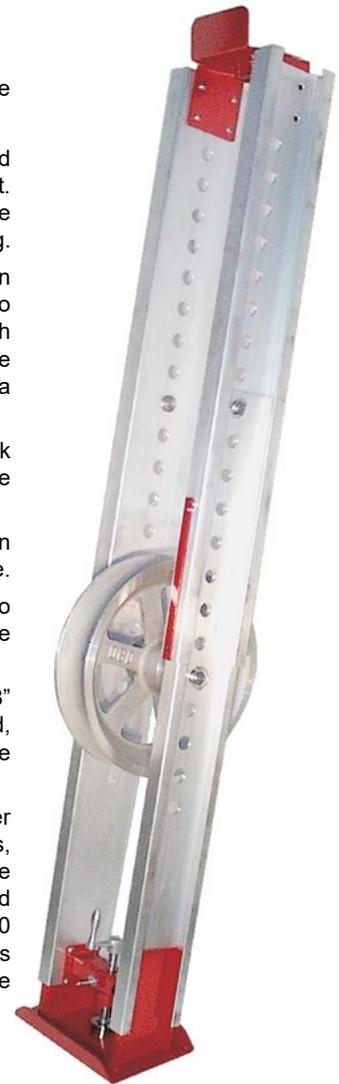
MANHOLE BRACE 32700 SERIES

The DCD Manhole Brace may look like other products on the market, but look again. There are several features which make it stand out from other similar products.

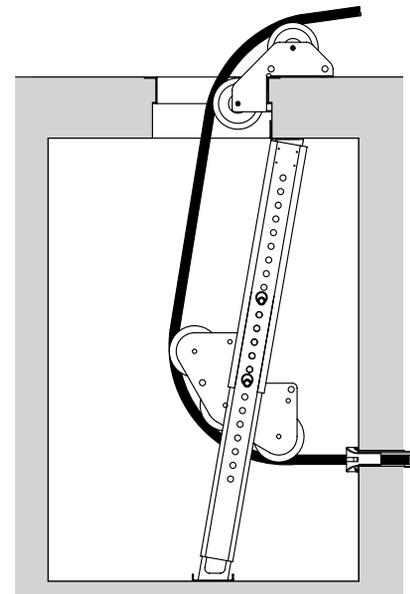
- Pivoting Head** - In many applications the top of the brace cannot jam against a round manhole, instead it may be jammed against a square cutout in the roof of the manhole vault. The DCD Manhole Brace has a pivotable upper head which allows the brace and sheave to be accurately aligned with the duct bank without the need for temporary shoring/bracing.
- Custom Extruded Channels** - The aluminum channels have been custom extruded to an engineered design. Their shape provides the maximum strength-to-weight ratio while also providing a smooth sliding action. The channels have approximately twice the strength as the standard aluminum channels used in similar products, allowing a full 10,000 lb line load to be applied at either entry or exit end of the pull. This load allows in excess of a 2:1 safety factor.
- Fixed Angle** - The brace operates at a fixed angle of 10°. There is an acme screwjack assembly to adjust the height of the brace. This same screw can be used to relieve the pressure on the brace when it is being removed.
- Lifting Bar** - The lifting bar provided allows the user to easily raise the upper extension into its correct position. This bar can be swung out of the way and stored when not in use.
- Locking Pins** - The brace uses separate locking pins for each set of channels. Using two locking pins ensures that they do not interfere with the desired placement of the sheave or quadrant.
- Fixed Width** - This fixed width brace is designed to accept quadrants or sheaves up to 8" wide. Since correct alignment to the duct entrance is now possible with the rotating head, even use of only a 4" wide sheave is no problem inside the 8" available width – the sheave will simply float between the side rails always picking up the most favorable alignment.
- Construction** - Although the side channels are extruded aluminum, the upper and lower assemblies are made out of steel. While increasing the overall weight by a few pounds, the added strength of steel is necessary in order to match the strength of the extruded side channels. The end result is a brace that can operate equally at either end of the pull and one that will match the safe working loads of all other DCD manhole products at 10,000 lbs. The base section is used in all assemblies and comes complete with 2 locking pins and 1 sheave pin. The short, medium or long extension should be ordered to suit the height range requirement.

Locking pins and sheave pins c/w securing pins may be ordered separately.

Note: Replacement of any parts with components other than those supplied by DCD will void the warranty and may cause serious damage to persons or equipment.



Part No.	Description	Height Range	Weight
32700-000	BASE SECTION	N/A	64.5 LB
Plus			
32700-010	SHORT EXTENSION	5'-8'	54.5 LB
32700-020	MEDIUM EXTENSION	7'-10'	72.5 LB
32700-030	LONG EXTENSION	9'-12'	89.0 LB
32700-035	EXTRA LONG EXTENSION	12'-15'	105 LB
Spare			
32700-040	LOCKING PIN KIT (1-1/4" LONG)	N/A	1.0 LB
32700-050	SHEAVE PIN KIT (11" LONG)	N/A	4.0 LB



TUBE-LUBE® 326

35000 SERIES

THE PRODUCT

Benefits include:

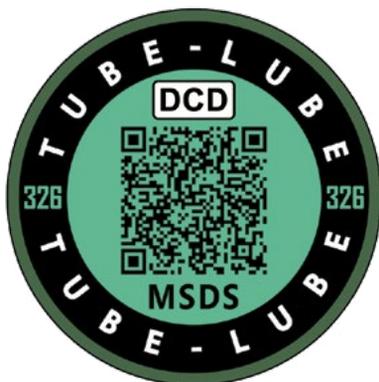
- Excellent lubrication and reduction of friction – field tests show pulling loads can be reduced by over 50% - on par with the other leading brands.
- Proven to reduce the coefficient of friction – tests on PVC duct with polyethylene jacketed cable show this to be 0.13.
- Lower friction means longer cable pulls. Lower viscosity means less drag on the jacket.
- Clean and easy to use – spray what you need where it's needed for less waste.
- Lubricant will flow around the cable when sprayed on, simply leaving a 5 mil coating of lubricant all around the cable jacket eliminating dry spots on the cable and further reducing friction. This also reduces usage by up to 50%.
- Can be used equally well for heavy power cable or CATV cable.
- Suitable for cable blowing. In Europe it is recommended by Lancier, one of the original developers of cable blowing machines and equipment.
- Can be used with several different applicator systems now offered by DCD (see following page).
- Good for winter or summer temperatures (-4°F to 149°F / -20°C to 65°C).
- Minimal evaporation – active ingredients do not dry out after application so cable removal years later is easy. Unfinished applications one day can easily be started up again the next day.
- Non-flammable.
- Contains no silicone oils, yet is compatible with silicone.
- Contains no VOC's (Volatile Organic Compounds).
- Safe, non-toxic and biodegradable.
- Successfully tested to IEEE standards for determining compatibility of pulling lubricants, including Low-Smoke Zero-Halogen (LSZH) jacket and Semi-Conductive materials.
- Successfully tested to ASTM standards for environmental stress cracking of cable jackets, also including Low-Smoke Zero-Halogen (LSZH) jacket.
- Price competitive on a gallon to gallon basis alone – now figure in the much lower usage and there are excellent savings to be gained.

THE PACKAGING

TUBE-LUBE® 326 is available in many different forms including:

- 1 quart spray bottle for smaller premise type applications, sold only as a 12 pack.
- 4 pack of 1 gallon jugs (available in pallets of 44 packs) for larger users who prefer the 1 gallon jugs, (Extra 10% discount on pallet loads).
- Stackable 5 gallon container (available in pallets of 36 containers) for larger users who prefer the 5 gallon containers (Extra 10% discount on pallet loads).
- In large 265 gallon totes, for the very large user who prefers to put the tote on the dock and let the crews fill up as needed. These totes have a spout and shut off valve located at the bottom of the tote and are returnable and can be re-filled, therefore saving even more costs.

Part No.	Description	Weight
35000-002	1 QUART SPRAY BOTTLE - 12 PACK	27 LB
35000-410	1 GALLON JUG - 4 PACK	36 LB
35000-050	5 GALLON CONTAINER	38 LB
35000-055	55 GALLON BARREL	485 LB
35000-265	265GALLONTOTEC/WSPOUTANDSHUT-OFF	2,500 LB



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CABLE PULLING LUBRICANTS

DCD

THE APPLICATORS

The liquid consistency of TUBE-LUBE® 326 (SG = 1.04) minimizes viscous friction which allows for easy application through the use of a spray applicator.

We offer a few different spray applicators, such as:

A manually pressurized Manual Applicator Kit

A manually pressurized spray tank with a pressure gauge allows the user to monitor the amount of lube being sprayed onto the cable via the included hand-held wand, or any of DCD's products fitted with a quick connect spray nozzle. Different pressures allow different volumes. A manual shut-off valve leads to a quick disconnect coupling.

A 20' long clear hose is included with the applicator with quick disconnect couplings at each end. This allows the applicator and operator to remain outside the manhole, while the connection to the duct is up to 20' away.

A battery operated, back pack Power-Spray™ Applicator Kit

This unit holds a little over 4 gallons and can be carried on the operator's back. A 4 speed pump controls the volume of lube applied. The pump is operated by a re-chargeable battery with about 8 hours usage time. The unit comes complete with re-charger and a spare battery. The outlet hose also leads to a quick disconnect coupling.

A 20' long clear hose is included with the applicator with quick disconnect couplings at each end. This allows the applicator and operator to remain outside the manhole, while the connection to the duct is up to 20' away.

Semi-clear tank allows visibility of the lube level.

Part No.	Description	Weight
35100-003	MANUAL APPLICATOR KIT (C/W 20' HOSE ASSEMBLY)	20.0 LB
35100-043	SPRAY WAND REPLACEMENT (MANUAL APPLICATOR)	0.5 LB
35100-002	POWER-SPRAY™ APPLICATOR KIT (C/W 20' HOSE ASSEMBLY, BATTERY & CHARGER)	16.4 LB
35100-040	HOSE ASSEMBLY - 20' LONG (CAN BE USED WITH EITHER SPRAYER)	1.57 LB
35100-050	BATTERY PACK FOR POWER-SPRAY™	6.14 LB
35100-051	BATTERY WALL CHARGER FOR POWER-SPRAY™	0.30 LB
35100-042	SPRAY WAND REPLACEMENT (C/W 6' HOSE)	1.0 LB
35100-052	SPRAY WAND REPLACEMENT (POWER-SPRAY™)	0.5 LB

In both above cases, the exit hose disconnect coupling and 20' long hose can attach to any of several other DCD products.



Duct Entry Guide (32500 series): This product fits right into the duct opening and has a roller that the cable must pass over. The unit is fitted with a spray nozzle that when hooked up, places the lubricant right onto the cable as it passes under the nozzle.

Flexible Guides (32600 series): This product attaches to duct entry adaptors and these parts also have a spray nozzle to apply the lubricant right onto the cable as it enters the duct.

Split Entry Bells (32550 series): This cable entry guide, available in aluminum and bronze, can be removed easily after installation. Also available with a spray nozzle for direct application of the lube right onto the cable.

Finally, a **Manual spray wand** is included with both types of applicator kits so that the hose may be connected to the spray wand and then applied onto the cable drum itself or any other point in the cable travel before entering the duct.



35100-003



35100-002



TUBE-LUBE® 346

35300 SERIES

This product is a gel consistency lubricant that is designed for heavy duty application, such as laying large-section power cables inside plastic or concrete ducts. It is also useful in situations that require very little spillage or mess such as indoor applications.

Available only in 5 gallon pails, TUBE-LUBE® 346 is compatible with all cable jackets and all types of ducting.

The product is a heavy duty gel that should be applied to the cable as it enters the ducting and will stay on the cable throughout the pull.

This product can be used in temperatures between 14 and 120 degrees F.



Part No.	Description	Weight
35300-050	5 GALLON CONTAINER	43.5 LB



MSDS Sheet Available on our Website

TUBE-LUBE® SUMMARY

Although the importance of proper lubrication is known, sometimes it is difficult to figure out which lubricant would best suit the application at hand.

DCD offers two varieties of lubricants, and each is best suited to a particular style of usage.

The below chart will give you some guidance with choosing the right lubricant for your application. If you have any questions or concerns please contact DCD and speak with one of our Sales Reps.

TUBE-LUBE TYPE	APPLICATION		
	INSTALLING CABLES BY PULLING	INSTALLING CABLES BY BLOWING	INSTALLING LARGE SECTION POWER CABLES
	EXCELLENT	GOOD	GOOD
	GOOD	NOT SUITABLE	EXCELLENT

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LUBE SPREADER

00510 SERIES

This product is designed to spread DCD TUBE-LUBE® 346 (or similar) around the walls and along the length of the duct, while also acting as a connector.

The body is constructed out of stainless steel and the polyurethane disc has angular grooves which allow better distribution of lubricant.



How to Order:

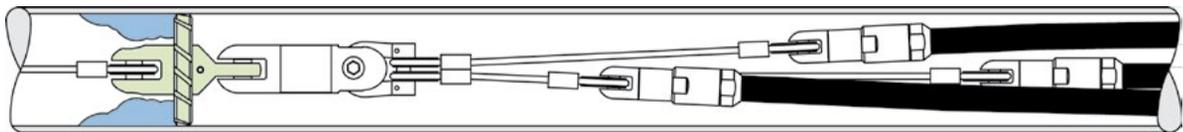
1. Select disc from Table A to fit the internal diameter of conduit to be lubricated.
2. Select connector body from Table B to match selected disc from Table A.

TABLE A: SPREADER DISC

Part No.	Disc Dia.	Weight	Connector Body
00515-100	1-1/16"	0.011 LB	00510-010
00515-125	1-3/16"	0.014 LB	00510-010
00515-150	1-5/16"	0.018 LB	00510-010
00515-175	1-7/16"	0.023 LB	00510-010
00515-200	1-7/8"	0.045 LB	00510-025
00515-250	2-3/16"	0.063 LB	00510-025
00515-300	2-13/16"	0.118 LB	00510-025
00515-350	3-1/4"	0.165 LB	00510-035
00515-400	3-3/4"	0.257 LB	00510-035
00515-500	4-11/16"	0.433 LB	00510-035
00515-680	5-1/2"	0.624 LB	00510-035
00515-640	5-13/16"	0.719 LB	00510-035

TABLE B: CONNECTOR BODY

Part No.	3:1 Safe Working Load	Body Dia.	Overall Length	Weight	Clevis Pin
00510-010	1,500 LB	7/8"	3-3/16"	0.24 LB	00010-SLT
00510-025	4,000 LB	1-3/8"	9-1/6"	0.99 LB	00025-HEX
00510-035	7,200 LB	2"	6-1/2"	2.73 LB	00035-HEX



PORTABLE CABLE PULLERS

41000 SERIES

These lightweight cable pullers are used when you have a job which requires pulling or lifting. DCD pullers are versatile enough that they are used for smaller cable pulling jobs, and lifting transformers.

Our pullers have a variety of anchor options, and are easy to set up and use in environments ranging from urban applications to subzero temperatures in the field. Their interchangeable capstan drums mean you can modify the speed and pulling power to suit your needs, and you can use any length of rope that you choose. With anti-reversing roller clutch bearings standard on every puller, and an operating position away from the line of pull these pullers are powerful, portable, and safe to use for personal or commercial application.

TUF-LUGGER™ LITE

41000-200

With a powerful gas powered engine this puller comes out of the box ready for pulling jobs up to 2200 lbs. Adding snatch blocks can double, triple or quadruple your pulling strength (depending on the arrangement). Lightweight at only 35 lbs, this puller can be carried in and out of remote locations, and with a continuous work cycle and a maximum pulling speed of up to 60 feet per minute it will get the job done quickly and efficiently.

Part Number	41000-200
Application	PULLING
Engine	4-STROKE HONDA GXH-50 cc
Gearbox (Ratio)	ALUMINUM ALLOY (110:1)
Turns at Idle	YES
Max. Pulling Force	2200 LB (ONE LINE)
Speed	
2-1/4" Drum	40'/MIN
3-3/8" Drum	60'/MIN
Installed Capstan Size	2-1/4"
Rope Sizes (Pulling)	3/8" - 5/8"
Dimensions	13" x 14" x 15"
Work Cycle	100% - CONTINUOUS WORK
Weight	35 LB

Note: 6 foot Polyester Sling (42300-206) included.



TUF-LUGGER™ LITE - HIGH SPEED

41000-300

The overall pulling weight that this unit can handle is lower than the regular speed model, but with a larger capstan drum, and a lower gear ratio this unit can pull at speeds of up to 115 ft/min. The other features that you'll find on the regular speed model are still standard on this model, including the gas engine, and continuous work cycle.

Part Number	41000-300
Application	PULLING
Engine	4-STROKE HONDA GXH-50 cc
Gearbox (Ratio)	ALUMINUM ALLOY (53:1)
Turns at Idle	YES
Max. Pulling Force	770 LB (ONE LINE)
Speed	
2-1/4" Drum	75'/MIN
3-3/8" Drum	115'/MIN
Installed Capstan Size	3-3/8"
Rope Sizes (Pulling)	3/8" - 5/8"
Dimensions	13" x 14" x 15"
Work Cycle	100% - CONTINUOUS WORK
Weight	35 LB

Note: 6 foot Polyester Sling (42300-206) included.



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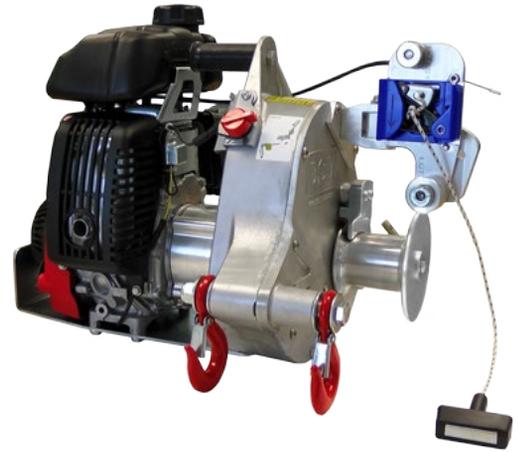
TUF-LUGGER™ LITE LIFTING - GAS

41000-400

This gas powered unit is used for jobs which require pulling and lifting. The capstan drum comes standard with a safety lip to prevent the rope from slipping off the drum during lifting jobs, and a rope grabbing system to prevent slack or rope slippage if the rope is released during a lift. This puller also features a clutch system which does not turn when idling.

Part Number	41000-400	
Application	PULLING AND LIFTING	
Engine	4-STROKE HONDA GXH-50 CC	
Gearbox (Ratio)	ALUMINUM ALLOY (110:1)	
Turns at Idle	No	
Max. Pulling Force	990 LB (WITHOUT BLOCKS)	
Max. Lifting Force	555 LB	
Speed (Pulling)	2-1/4" Drum	40'/MIN
	3-3/8" Drum	60'/MIN
Speed (Lifting)	2-1/4" Drum	40'/MIN
	3-3/8" Drum	60'/MIN
Standard Capstan Size	2-1/4" DRUM (W/ SAFETY LIP)	
Rope Sizes (Pulling)	3/8" - 5/8"	
Rope Sizes (Lifting)	1/2"	
Dimensions	20"x14"x15"	
Work Cycle	100% - CONTINUOUS WORK	
Weight	42 LB	

Note: 6 foot Polyester Sling (42300-206) included.



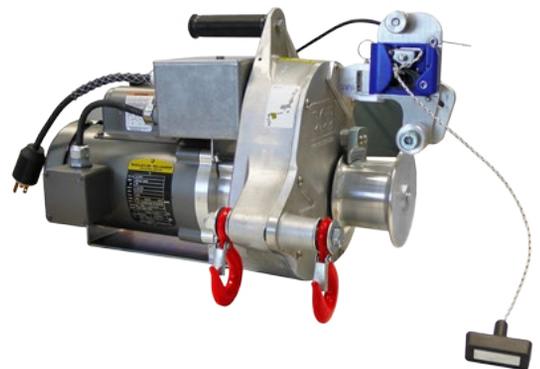
TUF-LUGGER™ LITE LIFTING - ELECTRIC

41000-500

This electric model gives you the option of working in areas where gas motors are prohibited, such as indoors. With a higher pull load than its gas powered counterpart this electric puller makes a powerful addition to the team. It comes standard with the same rope grabbing system as our other lifting unit, so you can feel confident that this machine is just as safe and reliable.

Part Number	41000-500	
Application	PULLING AND LIFTING	
Engine	AC ELECTRIC BALDOR TEFC 60 HZ 115/230 VAC - 1 PH - 3/4 HP	
Turns at Idle	NO IDLE ON ELECTRIC MOTORS	
Gearbox (Ratio)	ALUMINUM ALLOY (110:1)	
Max. Pulling Force	1800 LB (WITHOUT BLOCKS)	
Max. Lifting Force	555 LB	
Speed (Pulling)	2-1/4" Drum	22'/MIN
	3-3/8" Drum	35'/MIN
Speed (Lifting)	2-1/4" Drum	22'/MIN
	3-3/8" Drum	35'/MIN
Standard Capstan Size	2-1/4" DRUM (WITH SAFETY LIP)	
Rope Sizes (Pulling)	3/8" - 5/8"	
Rope Sizes (Lifting)	1/2"	
Dimensions	19"x14"x15"	
Work Cycle	15MIN/HR(TOPREVENTOVERHEATING)	
Weight	53 LB	

Note: 6 foot Polyester Sling (42300-206) included.



TUF-LUGGER LITE ACCESSORIES

42000 SERIES

CAPSTAN DRUMS

The option to change your capstan drum means that the unit's speed and pulling capacity are customizable. Changing to a larger drum means more speed, but less pulling power, and vice versa.

Part No.	Description	Size	Weight
42100-225	CAPSTAN DRUM WITH ROPE GUIDE	2-1/4"	1.5 LB
42100-337	CAPSTAN DRUM WITH ROPE GUIDE	3-3/8"	2.0 LB



CAPSTAN DRUM SAFETY LIPS

These easy to install lips are installed on the outside of the capstan drum to prevent the rope from slipping off the drum during lifting jobs. These are designed for use only with lifting units.

Part No.	Description	Fits Drum Size	Weight
42110-225	SAFETY LIP FOR CAPSTAN DRUM	2-1/4"	0.36 LB
42110-337	SAFETY LIP FOR CAPSTAN DRUM	3-3/8"	0.33 LB



SPARK ARRESTER

This Spark Arrester prevents the engine from ejecting anything flammable, and is mandatory in some areas. It is installed quickly and easily with a #2 Phillips screwdriver.

Part No.	Description	Weight
42120-000	SPARK ARRESTER	0.75 LB



CARRYING CASES

These cases will protect your unit during transport. The 42130-010 case comes with removeable casters, a folding handle, and room for the unit, a rope, and many accessories. The 42130-020 comes with a folding handle, and room for the unit and accessories. The molded case comes with room for the unit, and molded spaces for accessories.



Part No.	Description	Model No.	Outside Dimensions	Inside Dimensions	Weight
42130-010	PADDED WATERPROOF CASE (W/ CASTERS & HANDLE)	41000-200 41000-300	20"x20"x19"	18"x18"x17"	27 LB
42130-020	PADDED WATERPROOF CASE (W/ HANDLE)	41000-400 41000-500	23"x23"x21"	20"x20"x20"	27 LB
42130-030	TRANSPORTCASEWITHMOLDEDSHAPESFORACCESSORIES	41000-200 41000-300	22"x25"x16"	19"x19"x15"	15 LB

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ANCHOR OPTIONS

42200 SERIES

DCD cable pullers require a solid anchor point. These accessories provide a variety of easy to use options for anchoring your unit, and ensuring a safe pull or lift.

SUPPORT PLATE

This Support Plate is used to attach the puller to a vehicle using square tubing and a bent pin, or to a pole or tree using the pole mount. It pivots up to 45 degrees to either side thus allowing the winch to self align with the load during a pull.

Part No.	Description	Weight
42200-010	WINCH SUPPORT PLATE	9 LB



2" SQUARE TUBING

This square tubing fits into a category III hitch receiver on a vehicle, and creates an anchor point for the Support Plate or Vertical Pull Support using the bent pin style attachment.

Part No.	Description	Weight
42200-020	2" SQUARE TUBING	5 LB



TOWING BALL ADAPTER

This easily transportable adapter turns your vehicle into an anchor point for your puller. It fits ball hitches up to 2" in diameter.

Part No.	Description	Weight
42200-030	TOWING BALL ADAPTER	1.5 LB



POLE MOUNT

This system allow the unit to be securely mounted onto a pole or tree. An adapter then provides support for the puller. This anchor is compatible with the Support Plate, and the Vertical Pull Support, and requires one of them to be installed before it can be used as an anchor point.

Part No.	Description	Weight
42200-040	POLE MOUNT WITH ANCHOR STRAP	18 LB



VERTICAL PULL SUPPORT

This support is designed for vertical pulling, and would be useful for pulling electrical cable through a conduit. It can be installed on square tubing and then used with a vehicle's hitch, or it can be installed onto the pole mounted anchor and then used. The pulley provides redirection for the rope so that the main pulling force is in a downward direction.

Part No.	Description	Weight
42200-050	VERTICAL PULL SUPPORT	18 LB



FLOOR MOUNT

The floor mount is designed for anchoring the TUF-Lugger™ Lite to a concrete floor. The most common usage is for pulling wires inside a building. It can also be used outside when no other anchor point is available.

Part No.	Description	Weight
42200-080	FLOOR MOUNT	21 LB



TUF-LUGGER™ LITE METER BOX PULLER KIT 42000-500KT

This kit is designed to install conductor or communications cable through underground conduit to the meter box or the network interface box. The kit comes with 2" and 3" adaptors to allow a direct fit into the conduit and provide a high speed power assisted pull that prevents strain or injury while at the same time increases productivity.

The kit is easily disassembled for transport to and from the work site and for storage. The durable construction of this kit make it strong enough to pull over 2000 lbs. and can be used by a single operator.

Note: For customers that already have the Vertical Pull Support (42200-050), the kit is also sold as separate units.

This is to be used with the Tuf-lugger™ Lite Capstan Puller models: 41000-200, 41000-300, 41000-400 & 41000-500.



42200-060 + 42200-050 = 42000-500KT

Part No.	Qty	Description	Weight
42200-050	1	VERTICAL PULL SUPPORT	15 LB
42200-060	1	METERBOXPULLERWITH2\"&3\"ADAPTORS	26 LB
42000-500KT	1	TUF-LUGGER LITE METER BOX KIT	41 LB

TRIPOD FOR TUF-LUGGER™ LITE METER BOX PULLER KIT

The Tripod for TUF-Lugger™ Lite Meter Box Puller is intended for use with the 42200-060 Meter Box Puller for TUF-Lugger™ Lite, 42200-050 Vertical Pull Support and the 41000 TUF-Lugger™ Lite series of cable pullers. Complete assembly is required as shown prior to use. Rope is intended to allow for an upward pull from a manhole, well, or conduit. Use of the safety cable (included) will ensure a secure and reliable setup for pulling up to 2200 lbs.



42200-070 + 42200-500KT = 42000-600KT

Part No.	Qty	Description	Weight
42200-070	1	TUF-LUGGERLITETRIPODLEGS	28.5 LB
42200-600KT	1	TUF-LUGGER LITE TRIPOD KIT	70 LB

Note: TUF-Lugger Lite sold separately.

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CABLE PULLERS

DCD

SLINGS, ROPES, ROPE BAGS, AND CHOKERS

42300 SERIES

POLYESTER SLING

Polyester Slings are used to attach the unit or a pulley to an anchor. They are non-stretching.

Part No.	Length	Width	Weight	Breaking Point (Style of Anchor)		
				Vertical	Choker	Basket
42300-206	6 FT	2"	1.5 LB	3,200 LB	2,500 LB	6,400 LB
42300-208	8 FT	2"	2.0 LB	3,200 LB	2,500 LB	6,400 LB
42300-210	10 FT	2"	2.0 LB	3,200 LB	2,500 LB	6,400 LB



DOUBLE BRAIDED POLYESTER ROPES

Double Braided Polyester Ropes are perfect for use with the portable capstan puller. Their maximum stretch is 12% when at breaking point.

UNSPliced ROPE ENDS

Part No.	Length	Width	Weight	Breaking Strength
42310-164	164 FT	1/2"	13 LB	7,275 LB
42310-328	328 FT	1/2"	26 LB	7,275 LB
42310-492	492 FT	1/2"	39 LB	7,275 LB
42310-656	656 FT	1/2"	51 LB	7,275 LB
42310-984	984 FT	1/2"	77 LB	7,275 LB
42315-164	164 FT	3/8"	8 LB	4,850 LB
42315-328	328 FT	3/8"	15 LB	4,850 LB
42315-656	656 FT	3/8"	30 LB	4,850 LB



SPLICED ROPE ENDS

Part No.	Length	Width	Weight	Breaking Strength
42310-328S	328 FT	1/2"	27 LB	7,275 LB
42310-656S	656 FT	1/2"	52 LB	7,275 LB
42310-984S	984 FT	1/2"	78 LB	7,275 LB



ROPE BAGS

Rope Bags come in various sizes and are made out of durable nylon fabric.

Part No.	Size	1/2" Rope Capacity	Weight
42320-020	SMALL	164'	1.0 LB
42320-030	MEDIUM (SHOULDER STRAPS)	328'	1.7 LB
42320-040	LARGE	492'	1.8 LB
42320-050	EXTRA LARGE	656'	3.1 LB



CHOKERS

Chokers are used to grip a log or group of logs that are to be pulled. The steel rod is designed to easily slide underneath logs, and can be used with the Skidding Cone (part no. 42500-010) to make moving large logs quick and easy.



Part No.	Description	Dimensions	Maximum Load	Weight
42330-010	HPPE ROPE CHOKER	3/8" X 7'	15,500 LB	1.0 LB
42330-020	CHAIN WITH C-HOOK	1/4" X 7'	12,600 LB	6.0 LB



BLOCKS, PULLEYS, AND HOOKS

42400 SERIES

STAINLESS STEEL BLOCKS

Blocks can be used when you need to alter the rope's direction, or if you're looking to increase your winch's overall pulling power by creating a double, triple, or quadruple rope setup.

Part No.	Description	Diameter	Rope Size		Weight
			Min	Max	
42400-104	SINGLE SWING SIDE SNATCH BLOCK	4"	1/4"	1/2"	2.5 LB
42400-204	DOUBLE SWING SIDE SNATCH BLOCK	4"	1/4"	1/2"	4.0 LB



ALUMINUM SELF-BLOCKING PULLEY

Self-Blocking Pulleys are used during pulls in a rescue situation or a pull up an embankment or incline. It provides a safety backup by allowing the rope to pass only in the direction of the anchor, and locks when there is tension added in the other direction.

Part No.	Description	Diameter	Weight
42410-104	SWING SIDE SELF-BLOCKING PULLEY	2-1/2"	1.5 LB
42410-204	DOUBLE SWING SIDE SELF-BLOCKING PULLEY	2-1/2"	2.0 LB



LOCKING CARABINERS

Locking Carabiners have a multitude of uses. They can be used to quickly and easily attach blocks and pulleys to slings so that they can be anchored, to attach rope to a hook with a grommet if too small for the rope's diameter, or even as a feed guide attached to one's belt to guide rope into a rope bag.

Part No.	Material	Max. Load	Weight
42420-010	STEEL	5,500 LB	0.4 LB
42420-015	STEEL	11,250 LB	0.5 LB
42420-020	STEEL	15,500 LB	0.5 LB



42420-015



42420-020

HOOKS

Multipurpose hooks can be used for a variety of things. If the rope size is too large to fit into the hook's grommet, then attach a carabiner between the hook and the rope and use a bowline knot to attach the carabiner to the rope.

Part No.	Description (Material)	Use	Hook Size	Grommet Size	Maximum Load	Weight
42430-010	GRAB HOOK (ANODISED STEEL)	PULLING	5/16"	5/8"	4,000 LB	0.5 LB
42430-020	SAFETY HOOK (POWDER COATED STEEL)	PULLING/LIFTING	5/16"	11/16"	1,500 LB	0.5 LB
42430-030	GRAB HOOK WITH LATCH & 3 CHAIN LINKS (ZINC PLATED STEEL)	PULLING	5/16"	15/32"	4,000 LB	1.2 LB
42430-040	C-HOOK FOR CHAIN (POWDER COATED STEEL)	PULLING	1/4" - 5/16"	3/8"	12,000 LB	1.0 LB



42430-010



42430-020



42430-030



42430-040

POLYMER SKIDDING CONE

42500-010

This heavy duty skidding cone makes it easy to pull large logs or bunches of smaller logs over obstacles and brush. It is made of polymer plastic and is strong but flexible.

Part No.	Description	Maximum Diameter	Weight
42500-010	SKIDDING CONE FOR LOGS	20"	12 LB



EQUIPMENT RECOMMENDATIONS

Whether you're doing a job lifting a transformer, or you're finishing off a short cable pull you're going to need a few accessories to go with your puller. Below you will find a few recommendations for what accessories would go best for either a lifting or pulling application.

CABLE PULLING



Anchor System

No matter what the job you'll need a way to anchor your puller. See the guide on the next page for information on each anchor option.



TUBE-LUBE® 326

Reducing friction during a cable pull is even easier with the new DCD Tube Lube Spray Applicator. A quick and easy way to apply Tube-Lube 326 during a pull without having to get your hands dirty.



Line Swivels

Swivels prevents the duct or cable that is being pulled from twisting and being damaged. Our swivels are constructed of high strength stainless steel, and are capable of rotation at full working load.

LIFTING JOBS



Anchor System

The Vertical Pull Support is a great option for lifting jobs as the high strength pulley changes the direction of force while saving wear on the unit's front pulley.



Self-Blocking Pulley

Lifting jobs typically require some extra safety precautions to be taken. These pulleys are strong enough to handle roughly 9,000 lb of force, and allow the rope to pass in only one direction.



Non-Stretch Rope

One of the most unpredictable parts about pulling or lifting jobs is the energy stored in a stretched rope. Our rope will stretch only 12% at breaking point which means less stored energy and a safer lift overall.

INCREASING A TUF-LUGGER™ LITE'S PULLING POWER

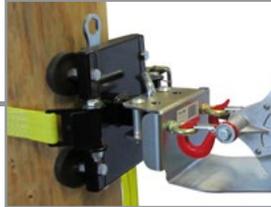
With the proper use of additional pulleys and blocks, ones may increase the pulling capacity up to four times of the cable puller. Visit our website for more details: www.dcdesign.com

B - Read our Blog for more!



ANCHOR OPTIONS FOR THE TUF-LUGGER™ LITE 42200 SERIES

No matter the job you're using the TUF-Lugger™ Lite for there is an anchor that will suit your application. The guide below is to show you the different options available for your anchor options.

	<p>POLYESTER SLING (42300 SERIES)</p> <p>These non-stretch Polyester Slings are used to anchor the puller to a stationary object such as a tree or rock. They can also be used to anchor a Snatch Block or Self-Blocking Pulley.</p>	
	<p>SUPPORT PLATE (42200-010)</p> <p>This Support Plate is used to attach the puller to a vehicle using square tubing and a bent pin or to a pole or tree using the pole mount. It pivots up to 45 degrees to either side, thus allowing the unit to self align with the load during a pull.</p>	
	<p>2" SQUARE TUBING (42200-020)</p> <p>This square tubing fits into a category III hitch received on a vehicle, and creates an anchor point for the Support Plate or Vertical Pull Support using the bent pin style attachment.</p>	
	<p>POLE MOUNT (42200-040)</p> <p>This system allows the puller to be securely mounted onto a pole or tree. The Pole Mount must be used with either the Vertical Pull Support or the Support Plate.</p>	
	<p>VERTICAL PULL SUPPORT (42200-050)</p> <p>This support is designed for vertical pulling and would be used for pulling electrical cable through a conduit or during a transformer lift job. The pulley provides redirection for the rope so that the pulling force is in a downward direction.</p>	
	<p>TOWING BALL ADAPTER (42200-030)</p> <p>This easily transportable adapter turns your vehicle into an anchor point for your winch. It fits hitch balls up to 2" in diameter.</p>	
	<p>FLOOR MOUNT (42200-080)</p> <p>The floor mount is designed for anchoring the TUF-Lugger™ Lite to a concrete floor. The most common usage is for pulling wires inside a building. It can also be used outside when no other anchor point is available.</p>	

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CABLE PULLERS



TUF-LUGGER™



42600-000 SERIES

The DCD TUF-Lugger™ is a cable puller that is designed to accommodate most pulling requirements up to a 5500 lbs load.

The unit is fully assembled and is mounted on four wheels making it portable and easy to move into any pulling location.

The TUF-Lugger™ is driven by a removable TUF-Lugger Lite™, which can also be used for other applications. The frame is fitted with a feed-out sheave, which allows the operator to stand clear of the line of pull. An optional load cell indicator with monitoring software can also be installed.

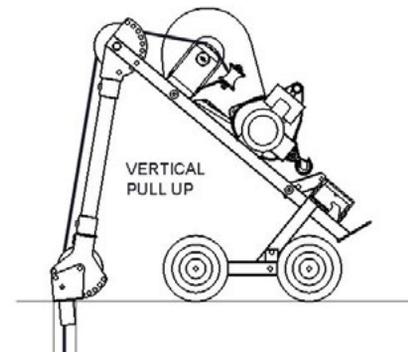
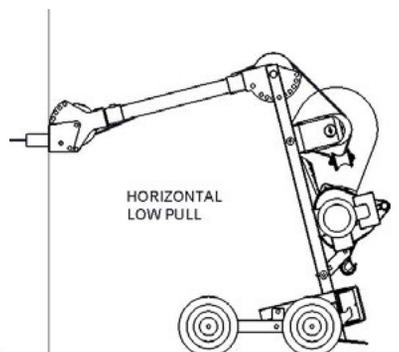
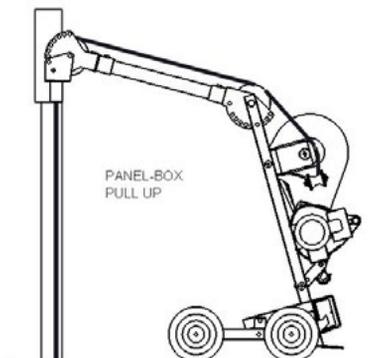
There are two arms which combine to allow access to both overhead and underground ducting.

BASIC SPECIFICATIONS:

- Speed of operation:
5500 lb max – 9.3 ft/min, 15min/hr work cycle
- Power reqmnt. 115V, 10 Amp
- Max height reach 6.5 ft (standard)
- Duct Guides Standard 2", 3", 3-1/2" & 4"
Optional 2-1/2", 5" & 6"

STANDOUT FEATURES:

- Duct guides are open on one side allowing quick and easy removal of pulling rope or cable.
- No field assembly – roll it in – roll it out.
- The boom can be extended from 2 ft up to 14 ft simply by substituting lengths of 2" rigid conduit.
- Universal extension available to access difficult manhole locations.
- Manhole adapter available for pulling from outside the manhole (requires 6" duct guide).
- Floor mounting frame available.
- Deflector sheave positioned to allow the operator to stand out of the pull line and still apply tension to the rope as it leaves the capstan.
- Duct guides can be indexed at 7-1/2 degree increments for greater adjustment.
- Well balanced design allows for easy fold down of unit for pushing or pulling by hand. A minimum amount of force is required to tip the unit onto two wheels for steering or turning in tight areas.
- Optional Load Monitor System (LMS):
 - Bolts directly onto boom arm
 - Uses AA battery power supply and connects wirelessly to an Android device or via Bluetooth to a computer using Windows
 - No separate running line tension meter is required
 - Simple field assembly for load sensor to existing frame
 - Programming provides data recording in CSV format and can be manipulated using Excel
 - Programmable email warnings and load limits



TUF-LUGGER™

42600 SERIES

The basic unit includes a foot-pedal start/stop switch, 4 duct guides to suit 2", 3", 3-1/2" & 4" Sched. 40 Duct and steel Tool Box carrying case.

Part No.	Description	Weight
42600-000	TUF-LUGGER™ CABLE PULLING DEVICE 110 V. 10 AMP	237 LB
42600-001	VOLTAGE CONVERTER 220 V. TO 110 V. 3,000 WATTS	27 LB

Note: This product is not to be used for any purpose other than pulling cable through conduit. A duct guide must always be used in order to lock the unit into position – without this, it is possible or likely that the entire unit will lift off the floor and may cause damage or severe injury.

The basic TUF-Lugger™ has many features not normally found on this type of puller.



Rope Deflector Sheave: In the event that the rope should break the tension in the rope could cause severe injury – with the deflector sheave, the operator may stand well clear of the pulling equipment and in particular, the line of pull.

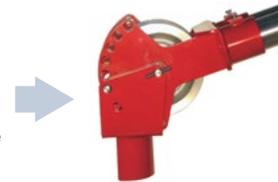
Open sided Duct Guides: These allow insertion or removal from the pull at any time. It should also be noted that the sheave is positioned immediately above the duct guide always ensuring that the rope or cable does not drag along the edge of the duct. The open side also allows positioning of the duct guide right up against a wall or junction box.



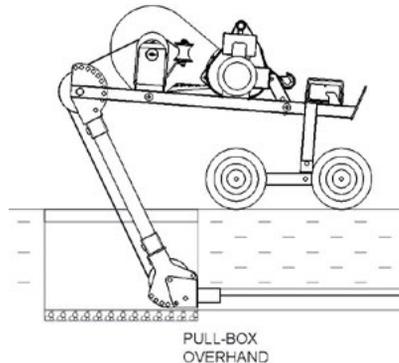
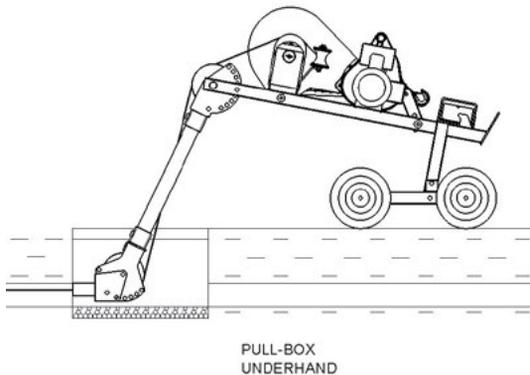
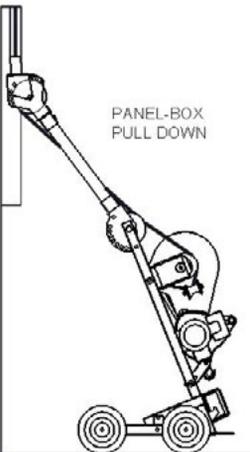
Extendable Arms: The outer beam of the TUF-Lugger™ is made up of 2" schedule 40 aluminum pipe. Contact DCD for extensions to reach up to higher locations or into manholes etc.

Single Speed Simplicity: The DCD puller is powered by the 41000-500 Tuf-lugger lite electric winch. The smooth capstan allows the operator to reduce tension at the rope deflector sheave and slip the rope to reduce pulling speed without shredding the rope. For better slipping and lower loads, fewer wraps around the capstan may be used.

Fine Indexing: The duct guides can be indexed in 7-1/2 degree increments in order to allow better alignment with the duct opening. In addition, there are 2 separate pins that hold the duct guide in position. They are short pins located from either side to allow unimpeded passage of the rope or cable.



All the above features are standard, but there is more – chrome plated shafts and iron-bronze bushings on all sheaves, brass serial number plate on every unit, heavy duty chains on the sprocket drives, powder coated paintwork, stainless steel securing pins at all elbows and more.



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CABLE PULLERS



LOAD MONITOR SYSTEM

40000-250 SERIES

The Load Monitor System is a self-contained package that will accurately determine pulling load within 10%. It features a USB and Bluetooth connection that will work with Windows or an Android App for use with a tablet or phone.

Data can be saved in CSV (comma separated Value) format that can be read or manipulated in Excel. The app includes user defined load limits, email and visual warnings, and a user adjustable calibration factor. The load cell operates on two AA batteries.



BASIC SPECIFICATIONS:

- Pre-programmed 0-2500 lb range for Tuf-lugger lite kit, 0-6500lb range for TUF-Lugger kit
- Downloadable software app from DCD website
- Adjustable calibration factor allows for custom user applications

Part No.	Description	Weight
40000-250	LOAD MONITOR ASSEMBLY	< 1 LB
40000-260	LOADMONITORKITFORTUF-LUGGERLITE	< 1 LB
40000-270	LOAD MONITOR KIT FOR TUF-LUGGER	< 1 LB

Kits include load cell mounting hardware and brackets. Total installation time is less than 15 minutes. The installation can be left installed for transporting, or easily removed for use in another application.

TUF-LUGGER™ MANHOLE ADAPTER

40000-300 SERIES

The Manhole Adapter is designed to straddle the open manhole and provide an anchor point for the TUF-Lugger™.

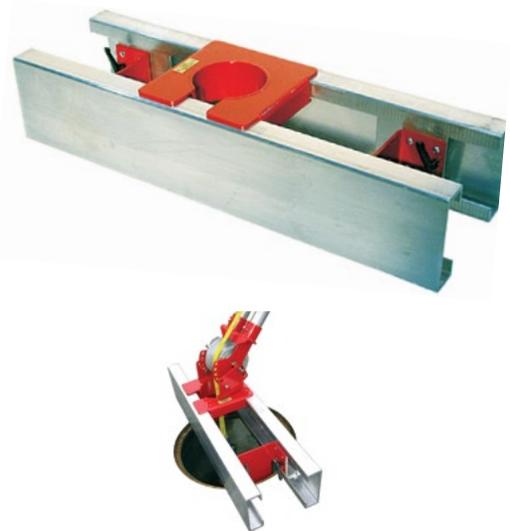
The Manhole Adapter will work with manholes from 18" to 36" and has two tabs that locate inside the manhole for safety. These are easily adjustable without the need for any tools or wrenches.

The "bridge" through which the cable is pulled, slides easily along the length of the adapter allowing easy positioning to match the cable location. In the event of difficulties during the pull, the entire unit can be assembled around or removed from already positioned pull rope or cable.

The unit is mostly aluminum and is lightweight and easy to handle.

A 6" duct guide (40010-600, not included) must be used to locate the TUF-Lugger™ in the Manhole Adapter.

Part No.	Description	Weight
40000-300	MANHOLE ADAPTER	63 LB



FLOOR MOUNTING FRAME

40000-400 SERIES

The Floor Mount Frame is designed to be secured to a concrete floor and provide an anchor point for the Power Pack. The construction is simple and assembly of the Power Pack takes only minutes. Caution must always be exercised to use the correct securing bolts - 5/8" Hilti bolts or equivalent - and to install them as per the manufacturer's recommendations.

Part No.	Description	Weight
40000-400	FLOORMOUNTINGFRAME	19 LB



UNIVERSAL EXTENSION

40000-500 SERIES

The Universal Extension frame is designed to get to those really hard to reach corners and still be able to locate the duct guide squarely into the ducting.

It mounts directly onto the end of the standard TUF-Lugger™ with all the existing hardware that comes with the TUF-Lugger™. The unit has the ability to be rotated 90 degrees in either direction thus giving total flexibility inside a manhole to reach any location. The Universal Extension is provided with short aluminum tubes, but it is likely that they will not be suitable for all applications. It is up to the contractor to obtain 2" pipes of a length to suit any particular application.

The outboard end of the extension is identical to that of the TUF-Lugger™ thus allowing the normal use of the duct guides.

It is possible to assemble more than one of these extensions such that when coupled together, they provide the ability to fully turn a corner.

Care must be taken when assembling this extension because until load is put onto the TUF-Lugger™, the entire unit will be very unstable – once load is applied, all the arms will tighten up under the tension and it will again become stable.

Part No.	Description	Weight
40000-500	UNIVERSAL EXTENSION	43 LB



TUF-LUGGER™ DUCT GUIDES

40010 SERIES

The duct guides are designed to locate inside the ducting and provide an anchor point for the TUF-Lugger™ to pull against. Each TUF-Lugger™ is provided with the duct guides marked with an *. These and all other units are also available individually. Each duct guide has mounting holes for attachment to the last Sheave on the TUF-Lugger™.

The assembly of the duct guide to the TUF-Lugger™ is reversed for upward direction as opposed to downward direction. Each unit also has a pair of holes used for indexing the position of the guide in increments of 7-1/2 degrees. All DCD duct guides are open on one side to allow easy installation or removal without feeding over the cable or pulling rope.

Part No.	Description	Weight
40010-200*	DUCT GUIDE - 2"	5.23 LB
40010-250	DUCT GUIDE - 2-1/2"	5.31 LB
40010-300*	DUCT GUIDE - 3"	5.60 LB
40010-350*	DUCT GUIDE - 3-1/2"	5.94 LB
40010-400*	DUCT GUIDE - 4"	6.28 LB
40010-500	DUCT GUIDE - 5"	8.23 LB
40010-600	DUCT GUIDE - 6"	8.5 LB



* Note: Included with TUF-Lugger™ (42600-000).

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FIBER CABLE PULLER

42700-000

The Fiber Cable puller is a simple, easy to use cable puller that is designed to accommodate industry standard sheaves of 9", 30", or 42" diameter specifically intended for use with fiber optic cables requiring a minimum bend radius. The unit is powered by the TUF-Lugger Lite gas winch (41000-400) or by the TUF-Lugger Lite electric winch (41000-500), providing a gas or electric option as a simpler, lighter, less costly option than a typical hydraulic puller.

Best of all, the Fiber Cable Puller is assembled using the Vertical Pull Support (42200-050) and the TUF-Lugger Lite, which includes the standard capstan. Simply dismount the winch and install the standard capstan and the winch can be used as a stand-alone item, which comes with a 2-1/4" capstan providing a 2200 lb pulling force.

Part No.	Description	Weight
42700-000G	FIBER CABLE PULLER, GAS	204 LB
42700-000E	FIBER CABLE PULLER, ELECTRIC	215 LB
42700-010G	FIBER CABLE PULLER, GAS, WITH HITCH BASE	175 LB
42700-010E	FIBER CABLE PULLER, ELECTRIC, WITH HITCH BASE	186 LB
42700-100	HITCH MOUNT FOR FIBER CABLE PULLER	37 LB
42700-300	FIBER CABLE PULLER BASE - ASSEMBLY	65 LB
40030-090	9" CAPSTAN DRUM	35 LB
40030-300	30" CAPSTAN DRUM	75 LB
40030-400	42" CAPSTAN DRUM	105 LB



*Capstan sheave sold separately.

STANDOUT FEATURES:

- Can be used to pull Bull-Line™ Pull Tape.
- Disassembly with simple tools, all components weigh less than 74lbs.
- Base frame legs are removable for compact storage.
- Base frame legs include adjustable pads for levelling on hard surfaces.
- Frame clearance allows a vertical pull out of a manhole or well.
- Holes in base frame allow frame to be pegged or bolted to the ground.
- Winch can be operated using cable actuated foot pedal, allowing operator both hands to handle rope.
- Vertical pull support (42200-050, included) is compatible with 2" square tubing adapter making unit hitch mountable.

SPECIFICATIONS:

	Gas Version	Electric Version
Engine	HONDA GXH 50cc 4 STROKE	60 Hz: AC ELECTRIC BALDOR TEFC
Power Requirement	N/A	115V; 10 AMP
Work Cycle	CONTINUOUS WORK CYCLE	15 MIN/HR WORK CYCLE
Clutch	CENTRIFUGAL CLUTCH	N/A - DIRECT DRIVE
Capstan Capacity:	Maximum Pulling Force	Maximum Pulling Force
2-1/4" Capstan	2,200 LB (40 FT/MIN)	1,800 LB
9" Capstan	2,933 LB (19 FT/MIN)	2,200 LB
30" Capstan	880 LB (64 FT/MIN)	675 LB
42" Capstan	628 LB (89 FT/MIN)	484 LB
Capstan Speed:	Maximum Speed w/ Drum	Maximum Speed w/ Drum
2-1/4" Capstan	40 FT/MIN	40 FT/MIN
9" Capstan	34 FT/MIN (1960 LB)	19 FT/MIN
30" Capstan	114 FT/MIN (594 LB)	64 FT/MIN
42" Capstan	159 FT/MIN (484 LB)	89 FT/MIN



DUCT RODDER INTRODUCTION

DCD offers one of the most comprehensive range of Duct Rodders available anywhere in the world - from the smallest 1/8" diameter Fish Tapes to the rugged 1/2" Duct Rodders.

THE ROD

DCD rods are manufactured from premium materials formulated to offer the high performance & durability demanded by our customers.

The core of the rod is manufactured by the pultrusion process. This involves impregnating high strength continuous glass fiber filaments with a liquefied resin. The fibers are drawn in to a heated die where the resin matrix is cured, bonding the fibers together and allowing mechanical loads to be transmitted through the matrix and distributed amongst the fibers.

The resulting pultruded rod combines both the high stiffness required to push the rod through long distances of ducting, with the flexibility to handle tight bends without damage. This inner core is then coated with a highly durable, scratch resistant polypropylene sheath which protects the core from mechanical damage.



THE FRAMES

Frames are also a feature of the DCD systems. The four largest sizes incorporate the new EZ-Tip™ feature; a larger footprint for stability; steel brake handles that will last forever; dual rod out-feeding positions and wheels inside the frame width. The two smallest sizes feature reinforced frames with the feedout built into the handle. All frames can be laid down on either side. These are just some of the design features that will make every unit more usable and friendly for the end user.

ROD SELECTION

Which is the right rod diameter for any given application? The rod selection is usually governed by several factors including:

- The size of ducting it is to be pushed through
- The distance the rod is to be pushed
- The number and tightness of bends in the ducting
- If the ducting is already occupied by cable

When being pushed through the duct, any rod will tend to form "sine waves", hitting the wall of the duct at certain intervals. Each time the rod comes in contact with the wall of the duct, it causes friction. The friction will build and eventually prevent the rod from being pushed any further. (Small rod in large duct will make a higher pressure contact with the ducting; the same rod in smaller duct will make less pressure on contact and therefore less friction, so it can be pushed further.) Large rod in small ducting is a good situation, but reduced flexibility of the rod may cause increased friction in the tighter bends.

The chart below is a rough guide as to rod diameter selection, but the above factors should all be taken into consideration before making the final selection.

Rod Dia.	Threaded Connection	Tensile Strength of Rod	Typical Strength of Glued Connection	Typical Strength of Screwed Connection	Minimum Bend Radius	Typical Max. Duct Dia.	Max. Length of Push or Pull
1/8"	#12 UNC	1,125 LB	140 LB	-	2"	1-1/4"	150 FT
3/16"	#12 UNC	2,200 LB	350 LB	-	4"	2"	300 FT
1/4"	5/16" UNC	4,070 LB	800 LB	1,050 LB	7"	2-1/2"	400 FT
5/16"	5/16" UNC	7,700 LB	850 LB	1,100 LB	10"	3"	600 FT
3/8"	3/8" UNC	8,580 LB	1,150 LB	1,150 LB	12"	4"	800 FT
7/16"	3/8" UNC	11,000 LB	1,750 LB	1,200 LB	16"	8"	1,200 FT
1/2"	3/8" UNC	13,000 LB	1,900 LB	1,250 LB	18"	10"	1,000 FT

NOTE! ALL DUCT RODDERS ARE CUSTOM BUILT TO ORDER AND ARE NON-RETURNABLE EXCEPT FOR WARRANTY.

ALL REPLACEMENT RODS WILL BE SHIPPED IN A NEW CAGE FOR EASY REPLACEMENT ON TO THE FRAME. EXTREME CARE MUST BE TAKEN WHEN HANDLING LOOSE FIBER GLASS RODS AS IT STORES CONSIDERABLE ENERGY AND MAY CAUSE SEVERE INJURY.

DCD

FISH ROD

51000 SERIES – 1/8" DIAMETER.

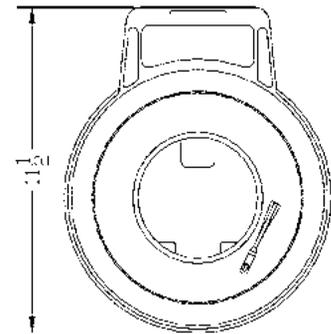
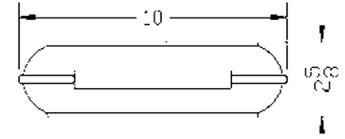
The 1/8" diameter fiberglass rod used in the compact Fish Rod is non-conductive and is designed to push through and pull back through conduits with or without existing cables.

The Fish Rod unit is available in three different rod lengths. The housing has an internal rotating drum to ease feeding the rod in and out and no crank handle is needed. The robust, solid housing has a fixed accessories compartment with a lift-up lid and carrying handle.

The standard Fish Rods include a male rod end and a pulling eye. The deluxe version includes accessories as listed below.



Deluxe 1/8" Rod	Rod Length	Weight	Deluxe Rod Accessories
51000-050	50 FT	1.71 LB	1 FLEX. GUIDE HEAD 2 SPLICE CONNECTORS
51000-100	100 FT	1.99 LB	1 MALE ROD END 1 GLUE 3GM
51000-150	150 FT	2.42 LB	1 ROD GRIPPER



Note: For Standard Rodder units that do not include accessories shown above, add "X" to the part number.

REEL ROD

52000 SERIES – 3/16" DIAMETER

The Reel Rod has a sturdy, powder coated, steel tube frame and features a 16" diameter storage basket. Up to 400 ft. of rod can be stored in this basket. A light adjustable brake prevents the rod from reeling out of the basket under its own tension.

The Reel Rod and the Fish Rod (series 51000) share common screw threads, allowing the use of the same accessories.

The standard Reel Rods include a male rod end and a pulling eye. The deluxe version includes accessories as listed below.

Although the fiberglass rods have very high reliability, improper handling can cause the rod to break. In these instances, repair is simple and can be carried out by any user.



Deluxe 3/16" Rod	Deluxe Detectable	Rod Length	Weight	Replacement Regular Rod	Deluxe Rod Accessories
52000-150	52200-150	150 FT	8 LB	52100-150	2 SPLICE CONNECTORS 1 FLEXIBLE GUIDE HEAD 1 ROLLER GUIDE 1 MALE ROD END 1 GLUE 3GM 1 ROD GRIPPER 1 ACCESSORY POUCH
52000-200	52200-200	200 FT	9 LB	52100-200	
52000-250	52200-250	250 FT	10 LB	52100-250	
52000-300	52200-300	300 FT	10 LB	52100-300	
52000-350	52200-350	350 FT	12 LB	52100-350	
52000-400	52200-400	400 FT	13 LB	52100-400	

Note: For Standard Rodder units that do not include accessories shown above, add "X" to the part number.



EXTREMEDANGER: NEVER USE A DETECTABLE RODDER IN A LIVE ELECTRICAL ENVIRONMENT. ELECTRICAL SHOCK OR DEATH MAY RESULT IF CONDUCTIVE ROD TOUCHES EXPOSED CIRCUIT.

TUF ROD

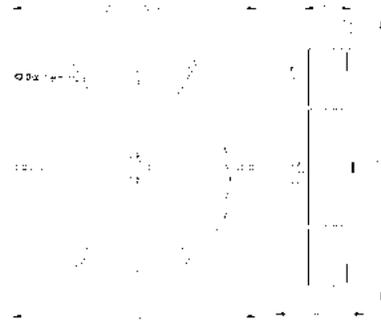
52500 SERIES – 1/4" DIAMETER

This unit is mounted in a convenient frame with carrying handle similar to, but larger than the 3/16" unit and the rod is housed in a 24" diameter storage basket.

The end fittings are the same as those offered with the slightly larger 5/16" rod – all stainless steel and with the unique DCD design allowing the fittings to be attached by either screwing or gluing onto the rod core. Thread sizes for all connections are 5/16" UNC.

Minimum bend radius is 7" and sizes available are from 150 ft up to 500 ft. DCD does not recommend pushing lengths over 500 ft unless in relatively small ducting 2" diameter or smaller.

Standard Rodders come complete with stainless steel swivel rod end, female rod end and a pulling eye, while the deluxe version includes accessories as listed below.



Deluxe 1/4" Rod	Rod Length	Weight	Replacement Rod	Deluxe Rod Accessories
52500-150	150 FT	12 LB	52600-150	
52500-200	200 FT	13 LB	52600-200	1 SPLICE CONNECTOR 1 FLEXIBLE GUIDEHEAD
52500-250	250 FT	14 LB	52600-250	1 ROLLER GUIDE 1 CLEVIS END
52500-300	300 FT	15 LB	52600-300	1 GLUE 3GM 1 ROD GRIPPER
52500-350	350 FT	16 LB	52600-350	1 ACCESSORY POUCH
52500-400	400 FT	17 LB	52600-400	
52500-500	500 FT	19 LB	52600-500	

Note: For Standard Rodder units that do not include accessories shown above, add "X" to the part number.

RUF ROD

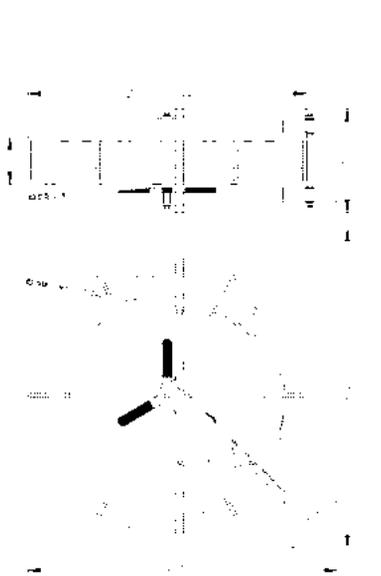
53500 SERIES – 5/16" DIAMETER

The 5/16" RUF Rod is one of the most popular sizes because of its versatility in both small and medium size ducts. It is the smallest of the wheel frames, yet still well under 3 ft. in height or length so easy to store or load onto your truck.

Although DCD only recommends lengths up to 600 ft., the standard cage will hold up to 800 ft. The longer lengths should only be used in smaller ducts (up to 2-1/2" dia) and when there are few bends.

The standard unit includes a female rod end, a swivel rod end and a pulling eye. The deluxe version includes accessories as listed below.

All accessories that attach to the rod can be glued on in the traditional manner or they can be clamped on with set screws or they can be glued and screwed for extra security.



Deluxe 5/16" Rod	Deluxe Detectable	Rod Length	Weight	Replacement Regular Rod	Deluxe Rod Accessories
53500-200	53700-200	200 FT	32 LB	53600-200	
53500-250	53700-250	250 FT	34 LB	53600-250	
53500-300	53700-300	300 FT	36 LB	53600-300	
53500-350	53700-350	350 FT	38 LB	53600-350	1 SPLICE CONNECTOR 1 FLEXIBLE GUIDEHEAD
53500-400	53700-400	400 FT	40 LB	53600-400	1 ROLLER GUIDE 1 CLEVIS END
53500-500	53700-500	500 FT	44 LB	53600-500	1 GLUE 3GM 1 ROD GRIPPER
53500-600	53700-600	600 FT	48 LB	53600-600	1 ACCESSORY POUCH
53500-700	53700-700	700 FT	52 LB	53600-700	
53500-800	53700-800	800 FT	56 LB	53600-800	
53500-900*	53700-900*	900 FT	60 LB	53600-900	
53500-1000*	53700-1000*	1000 FT	64 LB	53600-1000	

* Note: These two sizes are spooled on a 3/8" (54000) frame; see 54000 Specs for frame dimensions.

Note: For Standard Rodder units that do not include accessories shown above, add "X" to the part number.

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DUCT RODDERS & ACCESSORIES

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RUF ROD

54000 SERIES – 3/8" DIAMETER

The 3/8" Ruf Rod features a 34" diameter storage basket which comfortably stores up to 800 ft. of fiberglass rod.

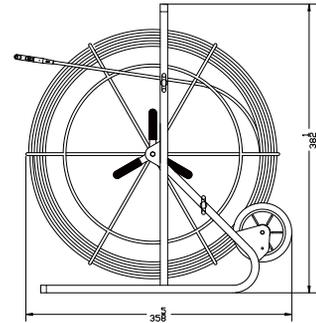
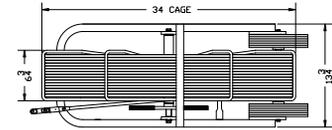
The Standard Ruf Rods include a female rod end, a swivel rod end and a pulling eye. The deluxe version includes accessories as listed below.

All accessories that attach to the rod can be glued on in the traditional manner or can be clamped on with set screws or they can be glued and clamped for extra security.

Deluxe 3/8" Rod	Rod Length	Weight	Replacement Rod	Deluxe Rod Accessories
54000-200	200 FT	49 LB	54100-200	1 SPLICE CONNECTOR 1 FLEXIBLE GUIDE HEAD 1 ROLLER GUIDE 1 CLEVIS END 1 GLUE 3GM 1 ROD GRIPPER 1 ACCESSORY POUCH
54000-300	300 FT	55 LB	54100-300	
54000-400	400 FT	61 LB	54100-400	
54000-500	500 FT	67 LB	54100-500	
54000-600	600 FT	73 LB	54100-600	
54000-700	700 FT	79 LB	54100-700	
54000-800	800 FT	85 LB	54100-800	
54000-900*	900 FT	91 LB	54100-900	
54000-1000*	1000 FT	97 LB	54100-1000	

* Note: These two sizes are spooled on a 7/16" (56000) frame; see 56000 specs for frame dimensions.

Note: For Standard Rodder units that do not include accessories shown above, add "X" to the part number.



RUF ROD

56000 SERIES – 7/16" DIAMETER

The 7/16" Ruf Rod features our largest frame with a 40" diameter storage basket which can hold up to 1500 ft of 7/16" fiberglass rod.

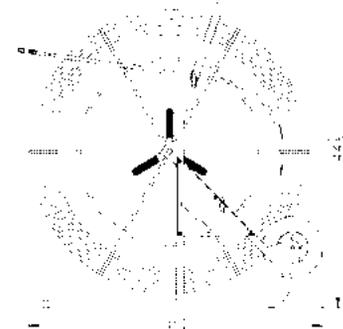
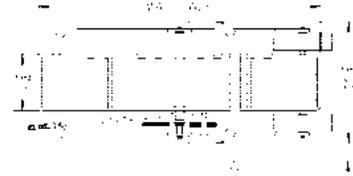
The Standard Ruf Rods include a female rod end, a swivel rod end and a pulling eye. The deluxe version includes accessories as listed below.

All accessories that attach to the rod can be glued on in the traditional manner or can be clamped on with set screws or they can be glued and clamped for extra security.

Deluxe 7/16" Rod	Deluxe Detectable	Rod Length	Weight	Replacement Regular Rod	Deluxe Rod Accessories
56000-400	56200-400	400 FT	84 LB	56100-400	1 SPLICE CONNECTOR 1 FLEXIBLE GUIDE HEAD 1 ROLLER GUIDE 1 CLEVIS END 1 GLUE 3GM 1 ROD GRIPPER 1 ACCESSORY POUCH
56000-500	56200-500	500 FT	94 LB	56100-500	
56000-600	56200-600	600 FT	104 LB	56100-600	
56000-700	56200-700	700 FT	114 LB	56100-700	
56000-800	56200-800	800 FT	124 LB	56100-800	
56000-900	56200-900	900 FT	134 LB	56100-900	
56000-1000	56200-1000	1000 FT	144 LB	56100-1000	
56000-1100	-	1100 FT	154 LB	56100-1100	
56000-1200	-	1200 FT	164 LB	56100-1200	
56000-1300	-	1300 FT	174 LB	56100-1300	
56000-1400*	-	1400 FT	184 LB	56100-1400	
56000-1500*	-	1500 FT	194 LB	56100-1500	

* Note: These lengths require the full capacity of the frame and are difficult to re-wind into the cage without due care and attention as to the layering of the rod.

Note: For Standard Rodder units that do not include accessories shown above, add "X" to the part number.



EXTREMEDANGER: NEVER USE A DETECTABLE RODDER IN A LIVE ELECTRICAL ENVIRONMENT. ELECTRICAL SHOCK OR DEATH MAY RESULT IF CONDUCTIVE ROD TOUCHES EXPOSED CIRCUIT.

RUF ROD

56500 SERIES – 1/2" DIAMETER

The 1/2" Ruf Rod completes the range of DCD Duct Rodders. The storage basket is the same as the for the 7/16" rod at 40" diameter and can store up to 1000 ft. of the 1/2" fiberglass rod.

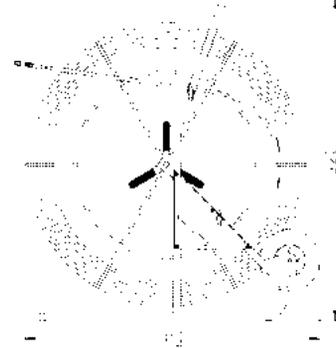
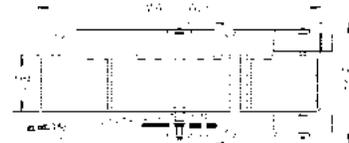
The Standard Ruf Rods include a female rod end, a swivel rod end and a pulling eye. The deluxe version includes accessories as listed below.

All accessories that attach to the rod can be glued on in the traditional manner or can be clamped on with set screws or they can be glued and clamped for extra security.

Deluxe 1/2" Rod	Rod Length	Weight	Replacement Rod	Deluxe Rod Accessories
56500-400	400 FT	96 LB	56600-400	
56500-500	500 FT	109 LB	56600-500	1 SPLICE CONNECTOR
56500-600	600 FT	122 LB	56600-600	1 FLEXIBLE GUIDE HEAD
56500-700	700 FT	135 LB	56600-700	1 ROLLER GUIDE
56500-800	800 FT	149 LB	56600-800	1 CLEVIS END
56500-900*	900 FT	162 LB	56600-900	1 GLUE 3GM
56500-1000*	1000 FT	175 LB	56600-1000	1 ROD GRIPPER
				1 ACCESSORY POUCH

* Note: These lengths require the full capacity of the frame and are difficult to rewind into the cage without due care and attention as to the layering of the rod.

Note: For Standard Rodder units that do not include accessories shown above, add "X" to the part number.



DETECTABLE DUCT RODS

DCD Detectable Duct Rodders are available in 3/16", 5/16" and 7/16" diameter rods. They are available in the same lengths as the regular rodders and are mounted in the same frames. The purpose of the detectable rod is to be able to accurately locate existing ducting underground or to locate the position of a blockage within a duct.

Each DCD detectable duct rod unit is supplied with a terminal box mounted on the frame with male and female banana terminals for external hook up.

It is recommended that a Roller Guide (57150 series) be used in order to better make the connection between the end of the rod and the wall of the ducting. This is necessary in order to complete the circuit back to earth.

Any transmitter can then be hooked up to the terminal box with the second lead from the transmitter going to ground (spike into earth). Once switched on, the signal will be transmitted along the duct rod and a standard locator can then be used to locate the signal source from above ground.

DCD Also offers various stainless steel adapters for attaching a sonde unit to the swivel rod end.

The detectable duct rodders use 20 to 25 gauge copper wire.

Caution should be exercised when ordering long lengths because the signal will diminish with distance traveled.



EXTREMEDANGER: NEVER USE A DETECTABLE RODDER IN A LIVE ELECTRICAL ENVIRONMENT. ELECTRICAL SHOCK OR DEATH MAY RESULT IF CONDUCTIVE ROD TOUCHES EXPOSED CIRCUIT.

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DUCT RODDERS & ACCESSORIES

DCD

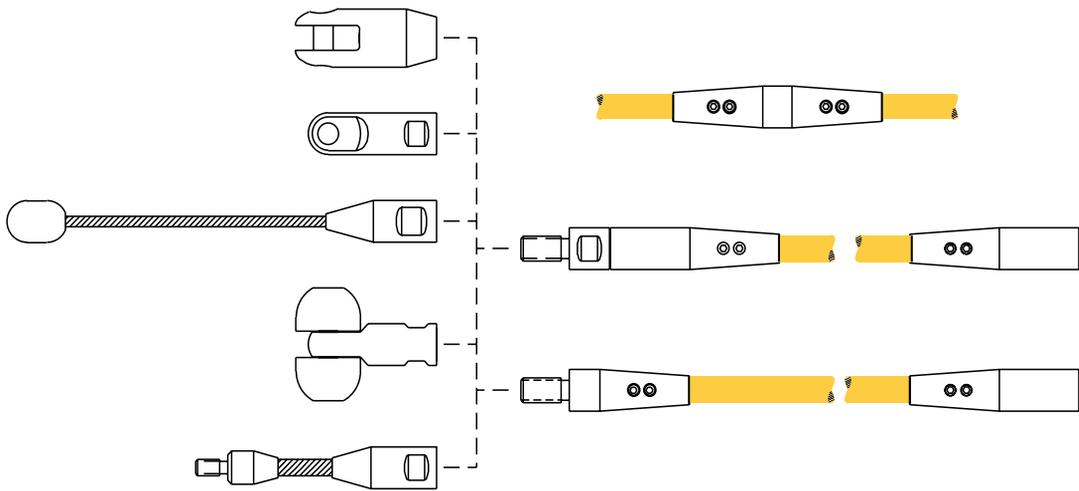


DUCT ROD ACCESSORIES

All Duct Rodders are offered in standard or deluxe packages. Separate accessory kits are available with contents listed in the table below.

The larger 5/16", 3/8", 7/16" and 1/2" Rodders are supplied with stainless steel accessories and all components attaching directly to the rod are designed to be glued on in the traditional manner, or can be attached by means of four clamping set screws, or can be both glued and screwed (the accessories supplied on the product at the factory are attached by screws only - they can be glued by the customer if required).

The obvious advantage of the clamping system is that repairs or product changes can be carried out easily in the field with no time delay to allow the glue to dry. Spare set screws and hexagon keys are also supplied.



See our Videos page on our Website for more information!

ACCESSORY KITS 57000 SERIES

Accessory Kit Part No.	➔	57000-000 1/8"	57000-001 3/16"	57000-003 1/4"	57000-005 5/16"	57000-004 3/8"	57000-006 7/16"	57000-007 1/2"
Duct Rodder Series	➔	51000	52000	52500	53500	54000	56000	56500
Accessory Item	Part No. Series	ACCESSORY ITEMS INCLUDED IN ABOVE KITS.						
Male Rod End	57135	1	1	-	-	-	-	-
Splice Connector	57100	2	2	1	1	1	1	1
Flexible Guide Head	57110	1*	1*	1	1	1	1	1
Roller Guide	57150	-	1	1	1	1	1	1
Clevis End	57160	-	-	1	1	1	1	1
Adhesive - Fiberglass	57170	1	1	1	1	1	1	1
Rod Gripper	57170	1	1	1	1	1	1	1
Accessory Pouch	57170	-	1	1	1	1	1	1

* Note: Refers to 57110-001.



SPLICE CONNECTORS

57100 SERIES

These products are used to repair a break in the rod. Having a solid section in the middle of the rod may cause problems with bending at that point and care should be taken when winding rod with a solid connector. The five larger sizes are stainless steel and can be glued or screwed on, the two smaller sizes are brass and must be glued.

Part No.	For Rod Dia.	Weight
57100-000	1/8"	0.01 LB
57100-001	3/16"	0.01 LB
57100-003	1/4"	0.09 LB
57100-005	5/16"	0.09 LB
57100-004	3/8"	0.14 LB
57100-006	7/16"	0.14 LB
57100-007	1/2"	0.14 LB



FLEXIBLE GUIDE HEADS

57110 SERIES

Flexible Guides are used for leading the rod around tight bends. The two larger sizes are stainless steel, the smaller sizes are brass.

Part No.	For Rod Dia.	Head Dia.	Overall Length	Threaded Connection	Weight
57110-000	1/8" & 3/16"	5/16"	3-1/2"	#12 UNC	0.02 LB
57110-001	1/8" & 3/16"	3/8"	3-1/2"	#12 UNC	0.03 LB
57110-002	1/4" & 5/16"	9/16"	6"	5/16" UNC	0.11 LB
57110-004	3/8", 7/16" & 1/2"	3/4"	12"	3/8" UNC	0.27 LB



PULLING EYES

57120 SERIES

Pulling Eyes are used for tying wire or pull tape to the end of the rod or used as a leader. They screw directly onto the rod end and are supplied with the rodder.

Part No.	For Rod Dia.	Body Dia.	Threaded Connection	Weight
57120-000	1/8" & 3/16"	1/4"	#12 UNC	0.01 LB
57120-001	3/16"	3/8"	#12 UNC	0.02 LB
57120-002	1/4" & 5/16"	1/2"	5/16" UNC	0.05 LB
57120-004	3/8", 7/16" & 1/2"	5/8"	3/8" UNC	0.27 LB



ROD ENDS

57130 / 57135 SERIES

These are used as a means of attaching accessories to the rod. Brass male rod ends are standard on the leading end of the smaller 1/8" and 3/16" rod ders which have no fitting on the back end. The larger rod ders are all fitted with Female ends on the back end of the rod.

Female Rod End	Male Rod End	For Rod Dia.	Body Dia.	Threaded Connection	Weight
-	57135-000	1/8"	1/4"	#12 UNC	0.01 LB
-	57135-001	3/16"	1/4"	#12 UNC	0.01 LB
57130-003	57135-003	1/4"	1/2"	5/16" UNC	0.07 LB
57130-005	57135-005	5/16"	1/2"	5/16" UNC	0.07 LB
57130-004	57135-004	3/8"	5/8"	3/8" UNC	0.13 LB
57130-006	57135-006	7/16"	5/8"	3/8" UNC	0.13 LB
57130-007	57135-007	1/2"	5/8"	3/8" UNC	0.13 LB



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DUCT RODDERS & ACCESSORIES

DCD



SWIVEL CONNECTORS

57140 SERIES

The Swivel Connector allows any attachment to the rod to rotate freely. These have bronze bearings and are supplied as standard on all 1/4" and larger rod ends.

Part No.	For Rod Dia.	Body Dia.	Threaded Connection	Weight
57140-003	1/4"	1/2"	5/16" UNC	0.10 LB
57140-005	5/16"	1/2"	5/16" UNC	0.10 LB
57140-004	3/8"	5/8"	3/8" UNC	0.20 LB
57140-006	7/16"	5/8"	3/8" UNC	0.20 LB
57140-007	1/2"	5/8"	3/8" UNC	0.20 LB



ROLLER GUIDES

57150 SERIES

The Roller Guide is used to push through conduit with cable already in place. The rollers prevent the rod from wedging in under the cable as they rotate on hardened shoulder bolts. The shank attaches directly to the swivel rod end to provide axial rotation. The Roller Guides are recommended for use with the detectable duct rods to make a better electrical connection with the walls of the ducting.

Part No.	For Rod Dia.	Body Dia.	Across Rollers	Threaded Connection	Weight
57150-001	3/16"	3/8"	1-1/16"	#12 UNC	0.05 LB
57150-002	1/4" & 5/16"	1/2"	1-3/16"	5/16" UNC	0.14 LB
57150-004	3/8", 7/16" & 1/2"	5/8"	1-11/16"	3/8" UNC	0.34 LB



CLEVIS ENDS

57160 SERIES

The Clevis allows attachment of pulling ropes etc. without the need of extra shackles.

Part No.	For Rod Dia.	Body Dia.	Threaded Connection	Weight
57160-002	1/4" & 5/16"	5/8"	5/16" UNC	0.08 LB
57160-004	3/8", 7/16" & 1/2"	7/8"	3/8" UNC	0.22 LB



MISCELLANEOUS

Part No.	Description	Weight
57170-006	ROD GRIPPER - FOR ALL ROD SIZES	0.09 LB
57170-008	ADHESIVE - FIBERGLASS (3GM TUBE)	0.01 LB
57170-010	LOCTITEADHESIVE495SUPERBONDER(1OZBOTTLE)	0.06 LB



SONDE CONNECTIONS

57131 / 57170 SERIES

Other sizes may be available upon request.

Part No.	For Rod. Dia.	Body Dia.	Threaded Connection	Type	Weight	
57131-003	1/4"	1/2"	ROD TO M10X1.5 FEMALE	MALE ROD END REPLACEMENT	0.06 LB	
57131-005	5/16"	1/2"	ROD TO M10X1.5 FEMALE		0.06 LB	
57131-004	3/8"	5/8"	ROD TO M10X1.5 FEMALE		0.12 LB	
57131-006	7/16"	5/8"	ROD TO M10X1.5 FEMALE		0.13 LB	
57131-007	1/2"	5/8"	ROD TO M10X1.5 FEMALE		0.13 LB	
57170-001	1/8" & 3/16"	1/2"	#12 UNC FEMALE TO 1/4" UNC MALE	RIGID ADAPTER	0.04 LB	
57170-002	1/4" & 5/16"	1/2"	5/16" FEMALE TO 1/4" UNC MALE		0.04 LB	
57170-004	3/8", 7/16", 1/2"	5/8"	3/8" FEMALE TO 1/4" UNC MALE		0.08 LB	
57170-007	3/8", 7/16", 1/2"	5/8"	3/8" FEMALE TO #12 MALE		0.10 LB	
57170-011	3/8", 7/16", 1/2"	5/8"	3/8" UNC FEMALE TO 3/8" UNC FEMALE		0.10 LB	
57170-014	3/16"	1/2"	#12 UNC FEMALE TO M10X1.5 FEMALE		0.04 LB	
57170-015	1/4" & 5/16"	5/8"	5/16" UNC FEMALE TO 3/8" UNC MALE		0.10 LB	
57170-016	1/4" & 5/16"	5/8"	5/16" UNC FEMALE TO 7/16" UNC MALE		0.10 LB	
57170-003	1/4" & 5/16"	1/2"	5/16" UNC FEMALE TO 1/4" UNC MALE	FLEXIBLE ADAPTER	0.10 LB	
57170-005	3/8", 7/16", 1/2"	5/8"	3/8" UNC FEMALE TO 1/4" UNC MALE		0.13 LB	
57170-009	3/8", 7/16", 1/2"	5/8"	3/8" UNC FEMALE TO 3/8" UNC MALE		0.14 LB	
57170-012	1/4" & 5/16"	1/2"	5/16" UNC FEMALE TO M10X1.5 FEMALE		0.10 LB	
57170-013	3/8", 7/16", 1/2"	5/8"	3/8" UNC FEMALE TO M10X1.5 FEMALE		0.14 LB	
57170-017	3/8", 7/16", 1/2"	5/8"	5/16" UNC FEMALE TO 5/16" UNC MALE		0.14 LB	
57170-018	3/8", 7/16", 1/2"	5/8"	5/16" UNC FEMALE TO 3/8" UNC FEMALE		0.14 LB	

WIRE MESH GRIPS FOR DUCT RODDERS

60000 SERIES

The smaller sized Wire Mesh Grips come with an already attached swivel while the three largest sizes simply have a pulling eye. In both cases they will screw to either the 1/8" or 3/16" diameter Fish Rod ends. Approximate breaking strength for all of these grips is 250 lbs.

They are especially useful for pulling bundles of small wires in premise applications.

Part No.	Size Range	Weight
60000-066	0.16" - 0.24" DIA.	0.01 LB
60000-060	0.24" - 0.35" DIA.	0.02 LB
60000-061	0.35" - 0.47" DIA.	0.03 LB
60000-062	0.47" - 0.59" DIA.	0.03 LB
60000-063	0.59" - 0.75" DIA.	0.06 LB
60000-064	0.75" - 0.98" DIA.	0.10 LB
60000-065	0.98" - 1.20" DIA.	0.16 LB



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DUCT RODDERS & ACCESSORIES

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ROD COUNTER



57180-000

The Rod Counter is made from welded steel and aluminum and is designed to count the fiberglass rod as it's spooled off the Duct Rodder frame. It fits all of our Standard and Detectable rodder frames and works with all our diameter rods, from the small and compact 3/16" diameter Reel Rod to the heavy duty 1/2" diameter Ruf Rod. Smaller rods (3/16" and 1/4") require the S-bar Frame Adapter.

Part No.	Description	Weight	Fits Frames
57180-000	ROD COUNTER (IMPERIAL)	2.0 LBS	5/16" - 1/2"
57180-005	RODCOUNTER(IMPERIAL)WITHFRAMEADAPTER*	2.2 LBS	3/16" - 1/2"
57181-000	ROD COUNTER (METRIC)	2.3 LBS	5/16" - 1/2"
57181-005	RODCOUNTER(METRIC)WITHFRAMEADAPTER*	2.5 LBS	3/16" - 1/2"

* Note: Frame Adapter only fits 3/16" and 1/4" frames.



HAND RODDER

57500 SERIES

DCD Hand Rods are high quality fiberglass with brass end fittings that easily attach together with 3/4" - 10 UNC threads.

Hand Rods are available in 5 or 10 ft lengths.

Part No.	Rod Dia.	Length	Weight
57500-010	5/8"	10'	3.03 LB



FIBER OPTIC CAGE

50500-010

Originally designed for Optical Fiber Cable designed to be installed to the home, this product allows the installer to pull a bundle of cable without its own spool. Its primary advantage is that it's significantly smaller and lighter than other products on the market. Cable can be removed from its original packaging and secured into place on the frame, keeping the cable organized when the product is payed-out. The adjustable arms can be moved by hand, and allow for loading/unloading of a spool and operating the frame without any tools.

Part No.	Bundle I.D.	Bundle O.D.	Bundle Width	Weight
50500-010	6"-18"	21" MAX	5.2" MAX	8.3 LB

An additional handle for cranking the unit (not shown) also makes it very convenient to spool cable, extension cords, rope or hoses back onto the frame for quick jobsite cleanup. The bundle can be left on the frame for storage or zip-tied and removed for convenient bundling.



POWER BLOWER

58400 SERIES

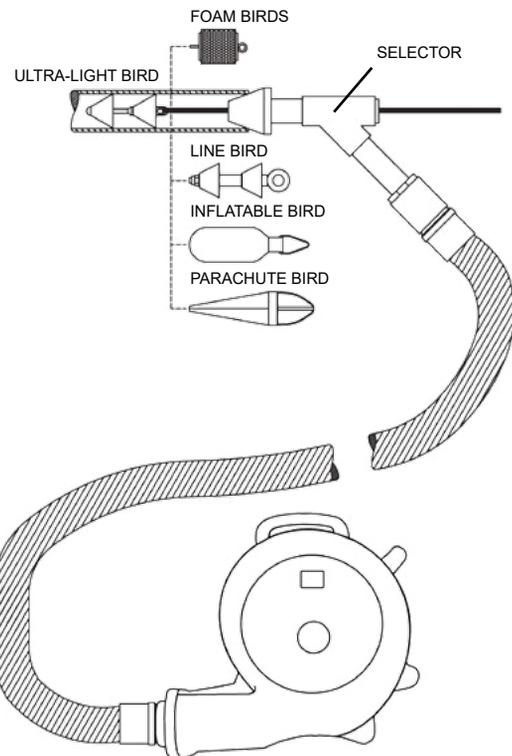
The DCD Power Blower is unique, a portable unit with the maximum pressure available in this class of line blowers: up to 30% higher. While there are several other similar products on the market, the DCD unit offers an excellent list of special features including:

- Acceptable for outdoor use (not in rain).
- Heavy duty industrial three-stage motor with sealed bearings and delivering up to 95 cfm and 5 psi.
- A heavy-duty 2" hose made of crush resistant polyethylene, 15' long, which will stand up in temperatures from -40 to +140 deg F.
- The blowers operate at 110/120VAC and require 15 amp source. A 220V/110V voltage convertor and a plug adapter are also available.

Although other manufacturers have a higher cfm rating, that will only increase the speed of the dart. The higher pressure rating is key because this will allow a dart carrying pull tape or twine to travel further with higher loads, even though it might take a few seconds longer (see below for a full explanation).

DCD also offers a full line of blowing accessories detailed on the following pages, available as kits or individually to build your own toolbox. DCD Line Blowing products feature a range of innovations to suit your application and go farther.

Part No.	Description
58400-000	POWER BLOWER 110V
58400-110	POWERBLOWER/W SEAL-OFFS FOR 1/2" TO 6" DUCT AND HOSE 2" DIA. X 15 FT. LONG. 110V INCLUDES 30 AMP TWIST PLUG.
58400-200	POWERBLOWER-58400-000 WITH VOLTAGE CONVERTER 58400-201
58400-201	VOLTAGE CONVERTER - TO CONVERT 220V POWER TO 110V. THIS ALLOWS THE STANDARD 110V LINE BLOWER TO BE USED IN COUNTRIES WHERE 220V IS STANDARD SUPPLY.
58400-220	POWER BLOWER - 58400-000, VOLTAGE CONVERTER - 58400-201, SEAL OFFS FOR 1/2" TO 6" DUCT AND HOSE 2" DIA. X 15 FT. LONG.
58410-025	2" DIA. X 25 FT. OPTIONAL HOSE



UNDERSTANDING BLOWER PERFORMANCE

The output of a blower is usually specified in terms of (i) its flow rate (cfm), and (ii) its pressure (psi). The flow rate determines how fast the blower can move a projectile, and the pressure determines how much load the projectile can pull and how far it can pull it.

When a blower is running with an unrestricted outlet, it will produce its maximum specified flow rate because there is no resistance against it.

If the blower is attached to a length of empty conduit, the blower has to move all the air in the conduit to push any through. Friction against the conduit wall will resist that movement. As the blower works against this backpressure, its flow rate drops.

Therefore a blower can never produce its maximum advertised flow rate in a practical application due to air friction in the duct.

As the length of conduit increases, friction increases, backpressure increases, and flow rate decreases. At some point, the backpressure will increase to a point at which it equals the maximum pressure that the blower can generate, and the flow rate will be zero.

When a projectile is inserted, it blocks the conduit. As more air is pushed in behind the projectile, the backpressure rises until it exceeds the projectile's drag and it begins to move along the conduit. Therefore the drag creates the backpressure, which, in turn, determines the blower flow rate and ultimately the speed of the projectile.

As the projectile moves down the conduit, the drag force increases because of the weight and friction of the line being pulled is increasing. At some distance, the increasing backpressure equals the maximum pressure that the blower can develop, and the projectile will stall.

Because only blowing pressure can overcome backpressure, a blower with higher blowing pressure capability will ultimately go farther. The DCD Power Blower is designed around a high-pressure motor to go farther. More pressure, more distance.

HOSE & SEAL OFFS

58410 SERIES

The 3 Seal Off sizes are designed to cover all duct sizes from 1/2" to 6". Each of the units will attach directly onto the Seal Off Body which, in turn, attaches onto the Hose Assembly.

The Hose Assembly is made from crush-proof 2" hose and is 15' or 25' in length. At the end where the Seal Off Body attaches, there is a swivel connector allowing the body to be turned in any direction.

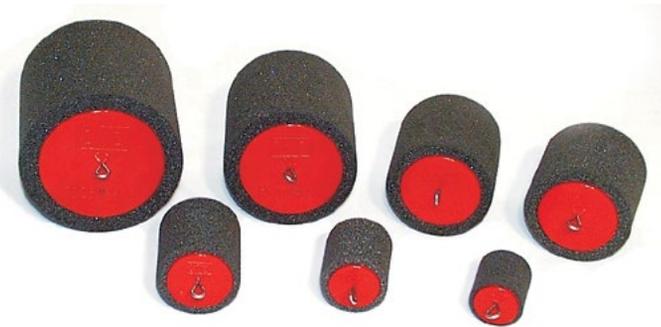


Part No.	Description	Weight
58410-015	HOSE ASSEMBLY - 2" DIA X 15' LONG	7.10 LB
58410-025	HOSE ASSEMBLY - 2" DIA X 25' LONG	10.50 LB
58410-100	CARRYING BAG FOR HOSE	1.93 LB
58420-010*	SEAL OFF ADAPTER - 1/2" TO 1-1/2"	0.36 LB
58420-020*	SEAL OFF ADAPTER - 1-1/2" TO 3"	0.72 LB
58420-030*	SEAL OFF ADAPTER - 2-1/2" TO 6"	2.01 LB
58420-040*	SEAL OFF BODY	1.46 LB
58420-000	KIT-INCLUDESABOVEPARTSMARKED*	4.55 LB

FOAM BIRDS

58230 SERIES

DCD Foam Birds are one of the more common ways to carry pull tapes through empty ducting. The product can also be used to spread lubricant through the duct before pulling cable. Sizes are standard and will fit duct sizes 2" through 6".



Part No.	Nom. Duct Size	Weight
58230-200*	2"	0.06 LB
58230-250*	2-1/2"	0.06 LB
58230-300*	3"	0.09 LB
58230-350	3-1/2"	0.12 LB
58230-400*	4"	0.14 LB
58230-500	5"	0.27 LB
58230-600*	6"	0.39 LB
58230-KT1	KIT-INCLUDESABOVEPARTSMARKED*	2.02 LB

LINE DARTS

58300 SERIES

DCD Line Darts are unique for several reasons. The colour coded cones match the seal kits, series 58200. The edges of the cones are tapered to allow better flexing when required to go around bends etc. The thin edges will also flare out to give better sealing and faster blowing once under pressure. Spare cones are available and replacement is simple.



Part No.	Nom. Duct Size	Color Code	Weight	Spare Cones
58300-100	1"	RED	0.04 LB	58350-100
58300-125	1-1/4"	YELLOW	0.06 LB	58350-125
58300-150	1-1/2"	BLACK	0.07 LB	58350-150
58300-200*	2"	GREEN	0.17 LB	58350-200
58300-250*	2-1/2"	RED	0.18 LB	58350-250
58300-300*	3"	YELLOW	0.27 LB	58350-300
58300-400*	4"	BLUE	0.39 LB	58350-400
58300-500	5"	ORANGE	0.75 LB	58350-500
58300-600*	6"	BLACK	0.94 LB	58350-600
58300-KT1	KIT-INCLUDESABOVEPARTSMARKED*		0.85 LB	



ULTRA LIGHT BIRDS

58320 SERIES

Ultra-Light birds are unique to DCD. They are made out of polyurethane and, as the name implies, are about half the weight of the regular Line Darts.

The cones are very tough yet extremely thin – so thin, in fact, that they can be easily inverted in the event that the dart gets stuck and it is necessary to pull them back out.

Part No.	Nom. Duct Size	Weight
58320-200*	2"	0.04 LB
58320-250*	2-1/2"	0.04 LB
58320-300*	3"	0.08 LB
58320-350	3-1/2"	0.11 LB
58320-400*	4"	0.14 LB
58320-500	5"	0.19 LB
58320-600*	6"	0.34 LB
58320-KT1	INCLUDES ABOVE PARTS MARKED*	1.02 LB



INFLATABLE BIRDS

58330 SERIES

Although many companies offer this Inflatable style of bird, DCD's unit are made of coated nylon, and stitched for greater strength. The purpose of the inflatable is to be able to blow through ducting already containing cable.

Part No.	Nom. Duct Size	Weight
58330-075	3/4" - 1-1/4"	0.01 LB
58330-150	1-1/2" - 2-1/2"	0.03 LB
58330-300	3" - 4"	0.06 LB
58330-500	5" - 6"	0.07 LB
58330-KT1	INCLUDES ALL ABOVE PARTS	0.62 LB



PARACHUTE BIRDS

58335 SERIES

With a large open mouth, these Parachutes are able to grab all the air blown into the duct and will travel faster and further than any other model. They are made out of coated nylon, and can be used in occupied duct.

Part No.	Nom. Duct Size	Color Code	Weight
58335-100	1" - 2"	RED	0.04 LB
58335-200	2" - 3"	BLUE	0.15 LB
58335-300	3" - 4"	BROWN	0.12 LB
58335-400	4" - 6"	GREEN	0.15 LB
58335-KT1	INCLUDES ALL ABOVE PARTS		0.89 LB



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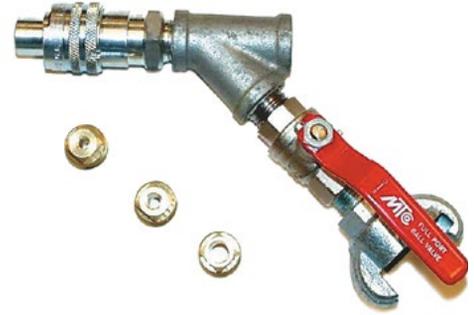


CONTROL VALVE

58000 SERIES

The Control Valve is an integral part of the DCD blowing system. A ball valve allows control of air flow and quick disconnect fittings are attached both ends. Three Rope Guides are included with each Control Valve purchased.

Part No.	Description	Weight
58000-000	CONTROLVALVE/WROPEGUIDES	2.47 LB
58000-188	ROPE GUIDE - 3/16"	0.10 LB
58000-250	ROPE GUIDE - 1/4"	0.10 LB
58000-375	ROPE GUIDE - 3/8"	0.04 LB



The Control Valve Adapter allows connection of the Control Valve to the 58420 Seal Off Adapters.

Part No.	Description	Weight
58000-100	CONTROL VALVE - SEAL OFF ADAPTER	4.0 LB



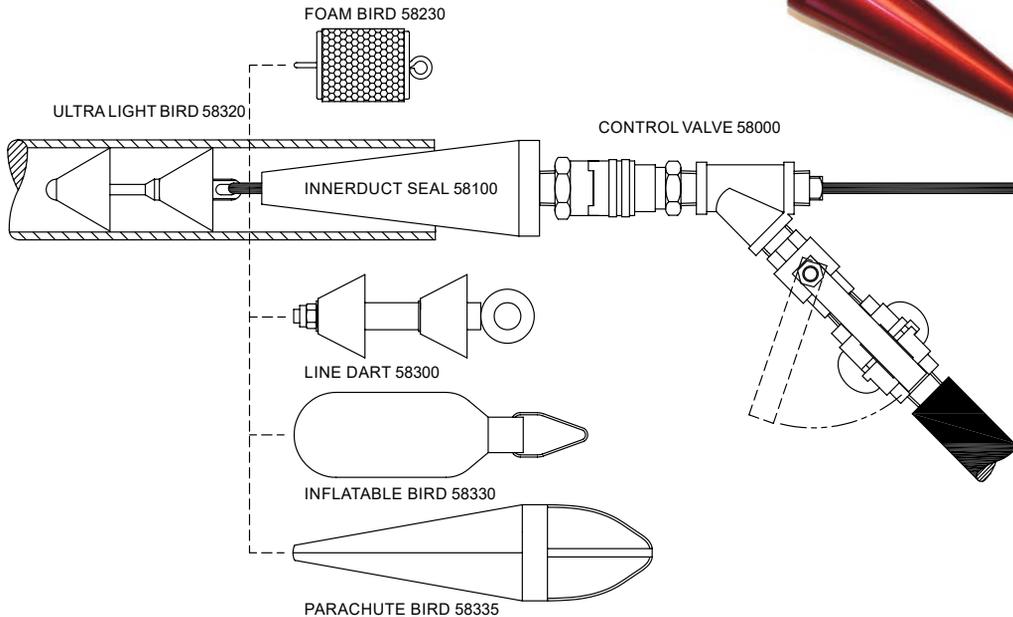
INNERDUCT SEALS

58100 SERIES

DCD offers two types of seals. The Innerduct Seal is a screw-in type that requires one product for each duct size. The second type is a Universal Seal which is a tapered product suitable for all duct sizes from 1" to 2". This is for use on short distance blowing where simply holding the seal against the end of the duct will do the job and save time.

The Kit comprises all four Innerduct Seals plus the Universal Seal. A Control Valve and Rope Guides are also included.

Part No.	Description	Nom. Duct Size	Weight
58100-000	UNIVERSAL SEAL	1" - 2"	1.50 LB
58100-100	INNERDUCT SEAL	1"	1.40 LB
58100-125	INNERDUCT SEAL	1-1/4"	2.20 LB
58100-150	INNERDUCT SEAL	1-1/2"	3.02 LB
58100-200	INNERDUCT SEAL	2"	3.96 LB
58150-000	UNIVERSALKITC/WCONTROLVALVE,4 INNERDUCTSEALS&1UNIVERSALSEAL	1" - 2"	18 LB



DUCT SEALS

58200 SERIES

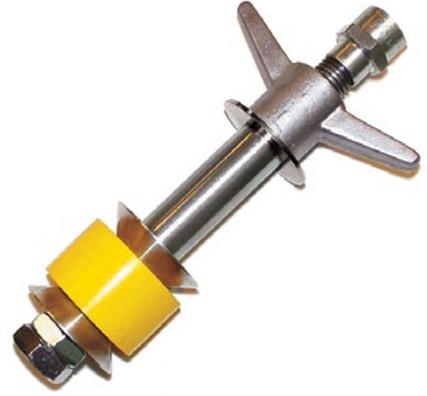
Duct Seals are unique for several reasons. The expandable seals are colour coded for easy recognition. They are made from a specially formulated polyurethane designed to give maximum sealing and expansion properties.

While a single seal is difficult to align properly, a double seal is expensive.

The DCD unit has a single seal, but supports it with an alignment washer. Economical but effective. All seal sizes fit over the same Handle Assembly and changing the size of seal used is a breeze. Just unscrew two nuts, slide off one Seal Kit and slide on the next one.

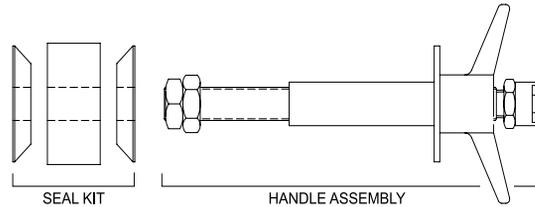
The end of the unit is fitted with a quick release coupling. Each Seal Kit comes complete with the polyurethane seal, two compression washers and one stabilizing washer. Just order the size of seal you need plus one Handle Assembly. Next time, just order the new size of seal you need.

Note: All seals have been tested to at least 15% higher than stated values. The actual pressure attained may depend on the condition of both the duct and the Seal Kit. Care should be taken at all times when working with pressurized systems.



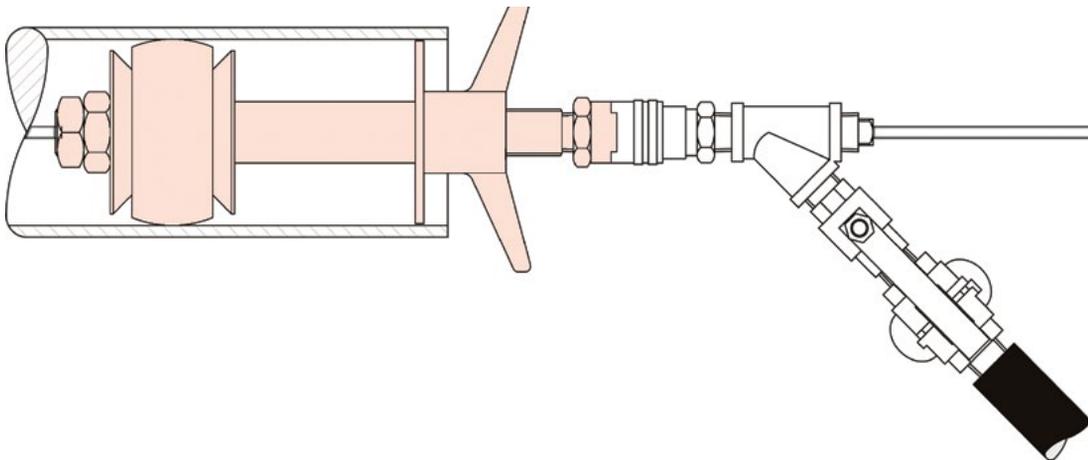
HANDLE ASSEMBLY

Part No.	Weight
58200-000	3.0 LB



APPLICABLE SEAL KIT SIZES

Part No.	Nominal Duct Size	Min Duct Inside Dia.	Max. Duct Inside Dia.	Color Code	*Max. Tested Pressure	Weight
58200-200	2"	1-13/16"	2-5/16"	GREEN	40 PSI.	0.23 LB
58200-250	2-1/2"	2-3/16"	2-3/4"	RED	35 PSI.	0.45 LB
58200-300	3"	2-13/16"	3-3/8"	YELLOW	30 PSI.	0.93 LB
58200-350	3-1/2"	3-1/4"	3-13/16"	WHITE	25 PSI.	1.23 LB
58200-400	4"	3-5/8"	4-1/4"	BLUE	20 PSI.	1.59 LB
58200-500	5"	4-1/2"	5-1/8"	ORANGE	15 PSI.	2.67 LB
58200-600	6"	5-3/8"	6-1/16"	BLACK	10 PSI.	3.81 LB
58200-800	8"	7-5/8"	8"	RED	10 PSI.	9.40 LB



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SPOOL FRAME WITH SUPPORT CONES

58540 SERIES

The DCD Spool Frame is engineered for years of trouble free usage. While DCD offers this product for carrying our Pull Tapes, it can also be used for carrying data and communication cable drums.

It has an easy fold up frame that is convenient for carrying or storage and does not require removing the spool or the 1/2" dia. spool support bar.

After a recent customer request we designed the support cones, which prevents the spool from rocking during use, and provides increased stability for the unit.



Spool Frame with Cones	Spool Frame Only	Cones Only	3:1 Safe Working Load	Capacity	Weight
58540-020	58540-010	58540-015	100 LB	16 1/2" WIDE X 20" DIA.	7.85 LB

TAPES AND TWINE

58500 SERIES

DCD partnered with A-D Technologies (Arnco) in handling a wide range of high performance Bull-Line™ Pull Tape products to expedite cable installation. Choose from woven polyester tape products which are available in a variety of strength and lengths. A single pull tape eliminates the additional labor required for string, rope or winch line combinations. All Bull-Line™ tape is manufactured with the Stiff-Tape™ lubricated coating, resulting in the highest performance pull table available in the industry. Whatever the choice, Bull-Line™ Pull Tapes have continually provided a superior alternative to plastic pull ropes in cable installations through all types of conduit. A-D Technologies Bull-Line™ Pull Tapes meet or exceed all pull line requirements of Bellcore GR-356-CORE. Polyester Bull-Line™ is the most economical pull tape, very strong and durable and the elongation at yield is about 12 to 15%. Detectable tape have a 22 gauge solid copper wire woven into the tape.



Note: Can be pulled with our new Fiber Cable Puller (42700-000).

Part No.	Description	Tensile Strength	Weight
58500-530	PULL TAPE-PRE-LUBRICATED - 1/2" X 3,000 FT	1,250 LB	24.5 LB
58500-630	PULL TAPE PRE-LUBRICATED - 5/8" X 3,000 FT	1,800 LB	32.5 LB
58500-665	PULL TAPE PRE-LUBRICATED - 5/8" X 6,560 FT (2000M)	1,800 LB	78.0 LB
58500-730	PULL TAPE PRE-LUBRICATED - 7/8" X 3,000 FT	2,500 LB	48.5 LB
58500-765*	PULL TAPE PRE-LUBRICATED - 7/8" X 6,560 FT (2000M)	2,500 LB	109 LB
58510-550	DETECTABLE PULL TAPE - 1/2" X 5,000 FT	1,250 LB	54.5 LB
58510-650	DETECTABLE PULL TAPE - 5/8" X 5,000 FT	1,800 LB	70.5 LB
58520-001	MEASURING TAPE - 3/16" X 3,000 FT	160 LB	3.7 LB
58530-001	BLOWING TWINE C/W PAIL & LID - 7,000 FT	180 LB	12.0 LB
58530-002	BLOWING TWINE C/W PAIL & LID - 3,000 FT	400 LB	12.5 LB



* Note: Wood reel standard.

Note: Other sizes available upon request. Wood reels available in pallet quantities only.



OVERHEAD PRODUCTS INTRODUCTION

In 2006, DCD Design took on the Cable Spinning Equipment Company, and began producing the Lineman and Eagle cable lashers. In doing so, DCD took on a long history of quality and innovation.

These lashers were previously manufactured by Cable Spinning Equipment Company, Inc. in New London, MN and before that, in Topeka KS. The original company was founded in the late 1930's by Mr. Dory Neale.

Their history in lashers goes back to their early patents in 1942 when Mr. Neale has the first ever patent on a cable spinner. That was for the one-man spinner shown in the photograph to the right. From those days onward, there have been several other patents and many innovative improvements.



MODEL Q LASHER

61100 SERIES

The Model Q hand-type Lasher is made for short span jobs like splicing or repair, traffic light installation, control cables, aerial inserts for underground construction or any job that would be simpler with a hand-held, variable tension lasher.

The Q Lasher adjusts easily according to how you wrap the wire around the tension rollers and is compatible with either .045" or .061" S-type lashing wire.

The rugged body is of cast aluminum with a removable flange for easy loading. Wire tension rollers are of hardened, tool steel.



Part No.	Max Strand	Max Lash	Wire Size	Spool Size	Overall Dimensions	Weight
61100-000	1/2"	1-15/16" DIA.	.045" - .061"	225 OR 375 FT/COIL	9-1/2" X 5" X 3"	2 LB

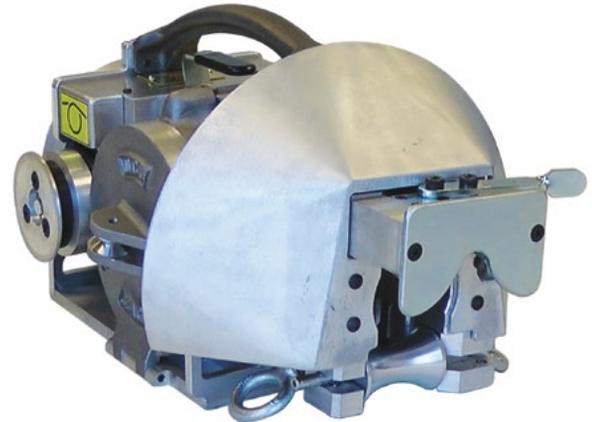
EAGLE LASHER

61700 SERIES

The Eagle Lasher was designed and built to meet the requirements of modern cable lashing jobs. Sized to install CATV or fiber optic cables, it's lightweight, durable and simple. Since its introduction, the design has proven itself on the strand, from the Arctic Circle to Asia Minor.

With a bundle capacity of 2-1/4" or single cable up to 2", the Eagle lasher will single- or double-lash most Last Mile or FTTH installations. Careful material selection and precise CNC machining have trimmed the weight of the machine to just 25lbs - significantly less than other lashers of this size range. The Eagle lasher also now uses a wire quick release trigger, mounted below the handle, for easy, one-hand engagement and release for continuous lashing and quick transfer time around poles.

Like all the DCD lashers, the Eagle does not need traction from the strand; it uses the tension from the lashing wire to drive rotation. This lasher uses industry standard straight-hub wire spools that are loaded into a pair of drop down magazine for added convenience. The lasher will also work with standard stainless lashing or non-metallic lashing wire.



Part No.	Max Strand	Max Lash	Wire Size	Spool Size	Overall Dimensions	Weight
61700-000	3/8"	2-1/4" DIA.	.038" - .045"	1,200 FT/COIL	18" X 18" X 8"	24 LB

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OVERHEAD PRODUCTS

DCD



LINEMAN LASHER

61400 SERIES

The Lineman™ Lasher is the pull type cable lasher for tough jobs, especially in dusty, wet or icy conditions. Use it to lash single or multiple cables up to 3" outside diameter and for single and double overlapping.

You won't get snagged in trees and tight places with the Lineman™ Lasher because of the smooth, tapered cowl. Transfer time around poles is cut by as much as one-third, with the wire quick release trigger mounts below the handle for easy, one-hand engagement and release for continuous lashing.

Versatility means less downtime and smooth operation. A key feature is that the Lineman™ requires no strand traction to drive rotation – this means you can now lash in any weather. The tough, precision drive system needs no adjustment and delivers even lashing action. The strand brake keeps wire tight prevents the lasher from sliding backward when forward motion is halted.

The Lineman™ Lasher holds up to 1200 ft. per coil of 0.045" lashing wire without reloading, and works compatibly with up to 1/2" strands. A flat base ensures the lasher won't roll around in transit, and the ergonomic handle and controls add to total precision performance.



Part No.	Max Strand	Max Lash	Wire Size	Spool Size	Overall Dimensions	Weight
61400-000	1/2"	3" DIA.	.045"	1,200 FT/COIL	19-1/2" X 12" X 12"	38 LB

LASHER ACCESSORIES:

TOW ROPE (3/8" ROPE X 3/4" HOOK)

61439-000

Both the Eagle Lasher and Lineman Lasher come standard with a tow rope. However, a replacement can be ordered if required.

Part No.	Description	Overall Dimensions	Weight
61439-000	TOW ROPE (3/8" ROPE X 3/4" HOOK)	60" LONG	1.0 LB



HALO BRUSH GUARD

Halo Brush Guards are designed to sit at the leading edge of your Lineman or Eagle Lasher, so that branches and other obstacles are pushed out of the way during lashing and are less likely to be caught up in the entrance of the machine. The guards are available in upper and lower models.

Part No.	Description	Overall Dimensions	Weight
61442-000	HALO RING GUARD KIT - LINEMAN	13.7" x 9.25" x 2"	5.6 LB
61773-000	HALO RING GUARD KIT - EAGLE	13.7" x 9.25" x 2"	5.6 LB
61436-000	HALO BRUSH GUARD	9.7" x 4.4" x 2.5"	1.6 LB



OVERLASH ASSEMBLY 61438-000

When overlashing, the strand is already lashed to the cable and is no longer accessible for latching on with the strand lock. The overlash assembly will compensate by adjusting down to the already lashed bundle to provide stability and guide the machine. It mounts to the front of your Lineman or Eagle lasher and can be adjusted down to the existing cable, accommodating a bundle as large as 3" diameter.



Part No.	Description	Overall Dimensions	Weight
61438-000	OVERLASH ASSEMBLY	6.3" x 4.4" x 2.7"	3.3 LB

OVERSIZE STRAND LOCK - LINEMAN / EAGLE ASSEMBLY 61440-SK01 / 61772-000

The oversize strand lock is designed as a replacement to the standard strand lock on your Lineman or Eagle Lasher. This strand lock also locks your unit to the strand and uses the same style rollers to reduce friction.



Part No.	Description	Overall Dimensions	Weight
61440-SK01	OVERSIZESTRANDLOCK-LINEMANASSEMBLY	5.6" x 2.9" x 2.3"	1.2 LB
61772-000	OVERSIZESTRANDLOCK-EAGLEASSEMBLY	5.6" x 2.9" x 2.3"	1.0 LB

REAR GATE KIT- LINEMAN 61400-SK01

The Rear Gate guides and supports the cable exiting the lasher up towards the strand to aid in the lashing process. If the rear gate is damaged, a replacement is available.



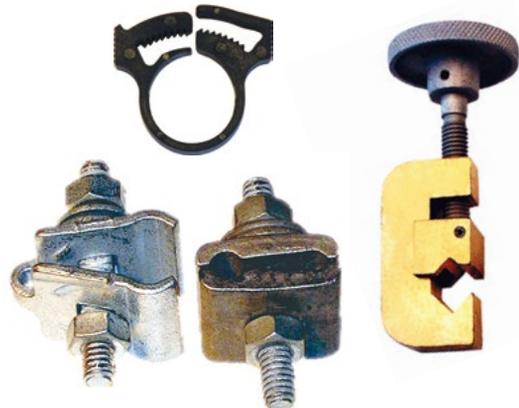
Part No.	Description	Overall Dimensions	Weight
61400-SK01	REAR GATE KIT	5.25" x 5.5 x 2.4"	1.5 LB

LASHING WIRE CLAMPS 61090 / 61091 / 62560 SERIES

DCD Lashing Wire Clamps are available in a range of sizes to suit your strand diameter. Two-piece clamps offer independent jaws; one-piece clamps form the jaws from a single metal plate. Metallic clamps (shown) are furnished with a double ended stud bolt and washers and free running nuts; all galvanized. Non-metallic type clamps are also available but be sure to specify strand diameter.

Temporary Lashing Clamps secure lashing wire to a termination point in mid-span or at a pole. The clamp is machined from solid cold drawn brass with a plated screw to eliminate corrosion if inadvertently left on strand for an extended period.

Part No.	Model	Strand Size	Type	Clamps/ Box	Weight
61090-001	D-901	.250"-.437"	TWO PIECE	100	11 LB
61090-002	E-902	.250"-.375"	ONE PIECE	100	10 LB
61091-228	NM-LC5-1	.228"-.256"	NON-METALLIC	100	0.5 LB
61091-307	NM-LC5-1.5	.307"-.342"	NON-METALLIC	100	0.5 LB
61091-351	NM-LC5-2	.351"-.394"	NON-METALLIC	100	0.5 LB
61091-404	NM-LC5-4	.404"-.452"	NON-METALLIC	100	0.5 LB
61091-449	NM-LC5-6	.449"-.511"	NON-METALLIC	100	0.5 LB
61091-453	NM-LC5-7	.453"-.546"	NON-METALLIC	100	0.5 LB
61091-513	NM-LC5-8	.513"-.586"	NON-METALLIC	100	0.5 LB
62560-000	LC5	.188"-.586"	TEMPORARY	1	0.5 LB



LASHING WIRE

61000, 61010, 61020, 61030, 61040 SERIES

The difference between DCD Lashing Wire and other lashing wires isn't visible to the eye. While all lashing wires may look and feel alike, DCD lashing wire is specially annealed for extra durability where the lash meets the strand.

Wound in continuous coils for easy payout, DCD lashing wires won't come back to haunt you. Instead, the lash holds tight and stays even. DCD gives you 14 choices of size and types: Aluminum, galvanized, various grades of stainless and non-metallic. All come in popular sizes to match any job, and while our sizes and types vary, our quality doesn't.



STRAIGHT HUB: Industry standard coils (5-1/2") to fit the DCD Lineman and Eagle Lashers, and other lashers with drop-down doors.

TAPERED HUB: Standard outside diameter to fit a tapered Cable Spinning Equipment hub (eg, D lashers).

DISPOSABLE METAL REELS: Pre-coiled on 6" aluminum reels, to fit legacy CSE lashers with a 1-1/4" mounting post. (CSE K & Special K lashers).

Q-SIZED: Compact coils (4" diameter) to fit the DCD Model Q Lasher.

NON-METALLIC MATERIAL: Two sizes, one for industry-standard straight hub lashers like the Lineman; a second, high-capacity spool to fit modified DCD lashers. Note: a lasher tension adjustment mechanism is necessary to compensate for the softer aramid strand.

LASHING WIRE SPECIFICATIONS

Lasher	Part No.	Model	Wire Dia.	Material	Coils/Box	Length	Net Box Weight	Total Coil Weight
Straight Hub								
Lineman, Eagle, S, K, & Special K	61010-020	10A-3A	0.061"	316 STAINLESS	6	650 FT	42 LB	7.00 LB
	61010-040	12A-3A	0.091"	GALVANIZED	6	325 FT	45 LB	7.19 LB
	61010-050	13A-3A	0.045"	430 STAINLESS	6	1,200 FT	41 LB	6.56 LB
	61010-070	26A-3A	0.045"	316 STAINLESS	6	1,200 FT	42 LB	6.69 LB
	61010-080	27A-3A	0.045"	302 STAINLESS	6	1,200 FT	42 LB	6.69 LB
Tapered Hub								
	61000-050	13A-1A	0.045"	430 STAINLESS	6	1,200 FT	41 LB	6.56 LB
Disposable Metal Reels								
Legacy K & Special K	61020-010	7AK-1AK	0.091"	ALUMINUM	5	350 FT	19 LB	3.31 LB
	61020-020	10AK-1AK	0.061"	316 STAINLESS	5	750 FT	43 LB	8.34 LB
	61020-030	11AK-1AK	0.061"	430 STAINLESS	5	750 FT	42 LB	8.19 LB
	61020-050	13AK-1AK	0.045"	430 STAINLESS	5	1,400 FT	43 LB	8.31 LB
	61020-060	23ANM-1AK	N/A	NON-METALLIC	5	1,200 FT	11 LB	1.87 LB
Special								
Q	61030-010	10AS-1AS	0.061"	316 STAINLESS	8	225 FT	20 LB	2.30 LB
	61030-020	11AS-1AS	0.061"	430 STAINLESS	8	225 FT	20 LB	2.26 LB
	61030-030	13AS-1AS	0.045"	430 STAINLESS	8	375 FT	18 LB	2.05 LB
Non-Metallic Material								
Straight-Hub & Modified DD	61040-009	-	N/A	NON-METALLIC	6	900 FT	8.5 LB	0.91 LB
	61040-010	23ANM-3A	N/A	NON-METALLIC	6	1,000 FT	9.0 LB	1.01 LB
	61040-020	23ANM-4000	N/A	NON-METALLIC	1	4,000 FT	5.0 LB	4.04 LB



ROLLER CABLE GUIDE

62400 SERIES

The Roller Cable Guide is used to raise large diameter single cables or multiple cables up to the cable lasher when lashing to a supporting strand. When using cable blocks, the Roller Cable Guide can also be fixed in one position on the strand and used to pull cables in to the cable blocks. The Roller Cable Guide is made to be used on bare strand as well as when overlapping over existing cable.

Part No.	Model	Dimensions	Max. Cable Diameter	Weight
62400-000	CB8	15" x 18"	3"	17 LB



CABLE PLACING SHOE

62410 SERIES

The Cable Placing Shoe is a versatile shoe which makes lashing or pulling in cable much easier. When placing a cable in one operation, run the Cable Placing Shoe ahead of the lasher to raise the cable from reel to strand. When pulling the cable, secure the Cable Placing Shoe to first pole and raise cable up over the shoe. The Cable Placing Shoe comes equipped with a locking pin so it can't jump the strand. The Cable Placing Shoe is made of lightweight cast aluminum. The arms and rollers are made of plated steel.

Part No.	Model	Dimensions	Max. Cable Diameter	Weight
62410-000	CS8	4" x 18-1/2" x 18"	3"	9 LB



LITTLE GIANT SLACK PULLER

62500 SERIES

The non-slipping ratchet drive makes the Little Giant Slack Puller easy to use. Top quality metal construction assures longer life. Two-inch cold-rolled steel rollers attach to a 3/4" x 2" hot-rolled steel yoke via a steel shoulder stud. The screw nut is a tough bronze alloy, 2 1/2" long. Two 3/8" steel bolts and a lip overhang attach the nut to the yoke. All steel parts are plated except for the painted yoke. The 62510-000 comes with an attached safety chain.

The Little Giant Junior Slack Puller is a downsized version of our larger slack pullers. The Little Giant Junior Slack Puller 62520-000 prevents damage to the cable jacket and supporting strand on small diameter and self-supporting cables, which could occur if using larger size slack pullers.

Part No.	Model	Handle Type	Dimensions	Weight
62500-000	LG12	RACHET HANDLE	16" x 12"	18 LB
62510-000	LG12M	RACHETHANDLEC/WSAFETYCHAIN	16" x 12"	19 LB
62520-000	LG-JR	SLIP HANDLE	7" x 8-1/2"	3 LB



POWER STRAP

62550 SERIES

The Power Strap is one of DCD Design's most versatile tools in the overhead Range. Constructed of heavy cotton webbing in a cast-aluminum housing, the Power Strap will position or secure mechanical sleeves, hold cable firmly while splicing or to raise large aerial cable to the strand. The Power Strap will fasten items to trucks, hold bundles or secure gas bottles to poles. The Power Strap comes in standard 3-1/2' lengths 2" wide. Each strap is plastic tipped to prevent fraying.

Part No.	Model	Dimensions	Weight
62550-000	CL29	4" x 4" x 4"	2.5 LB



Website: www.dcdesign.com

Toll Free: 1-888-SWIVELS (794-8357)

Tel: 604-232-4445

Fax: 604-232-4446

E-mail: sales@dcdesign.com

OVERHEAD PRODUCTS

DCD



SHIPMENTS TO THE USA	SHIPMENTS TO CANADA	INTERNATIONAL SHIPMENTS
All pricing is FOB Blaine, WA. There is no duties or taxes added to the prices shown.	All pricing is FOB Richmond, BC. Taxes will be added as per your jurisdiction.	All pricing is FOB Richmond, BC. Applicable duties and/or taxes may be added to the prices shown.
Standard DCD shipping policy is that freight will be prepaid and added to the invoice unless otherwise stated on the customer order.	Freight will be prepaid and added to the invoice unless otherwise stated on the customer order.	Freight will be prepaid and added to the invoice unless otherwise stated on the customer order.
Contact DCD for "free freight" policy.		

MINIMUM ORDER	LOSS OR DAMAGE	PRICES
A handling fee of \$25.00 may be added to all orders under \$100 net value.	The carrier is responsible for loss or damage during transit. Any claim should be filed with the delivery transport company.	Prices are subject to change without notice. All orders subject to acceptance at the factory. We reserve the right to invoice prices in effect at time of shipment.

RETURNED MATERIAL INFORMATION

Product returns will only be authorized within 6 months of invoiced date.
All returned product must have a Returned Material Authorization (RMA) number assigned by the factory. For all returns, please fill out the RMA form on our website (www.dcdesign.com/rma-form.php).
All product returns must have freight prepaid. No collect shipments will be accepted.
All returned product is subject to a minimum 25% re-stocking charge. Only product in an "as new" condition will be accepted. If product is damaged or not in original packaging, a higher re-stocking charge may be assessed.
Credit will be issued for product returned again replacement or future orders only - under no circumstances will DCD offer cash refunds.
For product being returned for service or repair, after receiving the product DCD will submit a quotation for the repair work. This must be authorized by the customer prior to the work being commenced.

LIMITED WARRANTY

<p>DCD Design & Manufacturing Ltd. extends the following warranty to the original purchaser of these goods for use, subject to the qualifications indicated: DCD Design & Manufacturing Ltd. warrants to the above party for use that the goods or any component thereof manufactured by DCD Design, will be free from defects in workmanship for a period of 1 year from the date of purchase provided such goods are installed, maintained, and used in accordance with DCD Design & Manufacturing's written instructions.</p> <p>The following is the LIMITED WARRANTY POLICY for DCD DESIGN & MANUFACTURING LTD. (DCD) as it pertains to all Products in this catalog shipped to any market place including USA, Europe or elsewhere unless otherwise specified on any given order.</p> <ol style="list-style-type: none"> DCD warrants only that all Products supplied by them will be free of defects in design, material or workmanship and will conform to DCD's published configurations and specifications therefore. This limited warranty shall be effective for a period of 6 months from the final delivery of the product, either by DCD or a distributor, to the end user for all Cable Installation Products and for a period of 3 months for Directional Drilling Swivels and Duct Pullers. Upon receipt of written notice from the distributor or customer, within the said 6 month period, of any such defect, DCD shall promptly repair or replace the defective product without charge to distributor or customer or, at the sole discretion of DCD, may refund the price paid by the distributor for such defective product, provided it is clearly shown that such defects were caused by poor design, workmanship or materials. It is understood that the environment in which these products are used may be extremely hazardous and damage or excessive wear to the product can be caused by any one of many known or unknown elements. This warranty will not be in effect if an unreasonable amount of damage or wear or careless use of the product is found to be the cause of the defect. All other warranties, either express or implied, for this product including, but not limited to, any implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed. If this product is not free of defects as warranted in paragraph 1 above, your sole and exclusive remedy shall be repair, replacement, or refund as provided in paragraph 3 above. In no event shall DCD or any of its authorized distributors be liable to any distributor or customer or any third party for any damages in excess of the purchase price of the product. This limitation applies to damages of any kind including direct or indirect damages, lost profits, lost savings or other special, consequential or incidental damages whether for breach of contract, tort or otherwise or whether arising out of the use of or inability to use such product even if DCD or an authorized distributor has been advised of the possibility of such damages or of any claim by any other party. The foregoing limitation of liability applies to DCD and all authorized distributors and is required to be, and will be deemed to be, included in any warranty, express or implied, provided by such authorized distributors.



IMPORTANT: All DCD products are designed and manufactured in a manner to satisfy both the design requirements and claimed capacities. At no time should any product be modified, neither should any replacement parts not supplied and approved by DCD Design & Manufacturing Ltd. be used on DCD products. Such instances as using a standard Hexagon Bolt in place of a specially designed Clevis Pin can result in damage to the product and/or to property and may result in severe injury or death to operators or persons near by. In any such instances, the terms of this warranty will be voided and DCD will accept no responsibility for product failure or personal injury.



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