



Snake Grips Instructions



WARNING Failure to use Lewis Snake Grips as detailed in the supplied user instructions, may result in serious injury or even death.

LSG SNAKE GRIPS

The Lewis **LSG Snake Grips** expands or contracts to grip different or identical cable and/or rope sizes as needed.

INSPECT & USE



ROTATING STANDARD PROFILE



Regular LSG Snakes	Range	WL lbs.	UTS lbs.	*Swing Link	*Eye-Eye Swivel
LSG ¼-½	¼"-½"	1,200	2,400	A - 5/16"	A - 1/4"
LSG ½-1	½"-1"	2,500	5,000	A - 5/16"	A - 1/4"
LSG 1-1½	1"-1½"	3,500	7,000	B - 7/16"	B - 5/16"
LSG 1½-2	1½"-2"	4,000	8,000	C - 9/16"	C - 3/8"
LSG 2-2¾	2"-2¾"	5,000	10,000	C - 9/16"	C - 3/8"
LSG 2¾-3½	2¾"-3½"	5,000	10,000	C - 9/16"	C - 3/8"
LSG 3½-4¼	3½"-4¼"	5,000	10,000	C - 9/16"	C - 3/8"

Special LSG Snakes	Range	WL lbs.	UTS lbs.	*Swing Link	*Eye-Eye Swivel
LSG ¼-1½	¼"-1½"	1,200	2,400	B - 7/16"	B - 5/16"
LSG ½-1½	½"-1½"	2,500	5,000	B - 7/16"	B - 5/16"
LSG ½-2	½"-2"	2,500	5,000	C - 9/16"	C - 3/8"
LSG 1-2	1"-2"	3,500	7,000	C - 9/16"	C - 3/8"
LSG 1½-2½	1½"-2½"	4,000	8,000	C - 9/16"	C - 3/8"

The grips on the Special LSG Snake models are not the same on each side.

Install new cable by using old existing cable as pulling line.
Snake grips are designed to save time stringing up, changing and unstringing because the snake grips do not need special tools.
LSG's swivel and swing link go smoothly through blocks and prevent line twisting.

Always seize the grips' ends by **BANDING AND TAPING**

WARNING

* The Swing Link and Eye-Eye Swivels photo are to the actual size for your reference. When disconnecting and connecting the Swing Links, refer to the tables to make sure using the correct size link to obtain safe operation and to meet the WL & UTS ratings of the LSG grips.

LSG-PSO SNAKE GRIPS HALF

LSG-PSO Snakes	Range	WL lbs.	UTS lbs.
LSG ¼-½-PSO	¼"-½"	1,200	2,400
LSG ½-1-PSO	½"-1"	2,500	5,000
LSG 1-1½-PSO	1"-1½"	3,500	7,000
LSG 1½-2-PSO	1½"-2"	4,000	8,000
LSG 2-2¾-PSO	2"-2¾"	5,000	10,000
LSG 2¾-3½-PSO	2¾"-3½"	5,000	10,000
LSG 3½-4¼-PSO	3½"-4¼"	5,000	10,000

INSPECT & USE



STANDARD PROFILE



You can also order LSG Snake Grips by themselves without the link.
Catalog numbers are the same as LSG snakes with an added **PSO** to the end of the LSG model no.

LSG-X SNAKE GRIPS

The **LSG-X Snake Grips** perform the same function as the standard LSG series. However, the LSG-X grips cannot be taken apart in the middle, it is permanently attached via the **"Swivel Tube"** assembly. The swivel tube gives the snake grip a **lower profile** for pulling in tight spaces.

Rotating Low Profile - This swivel tube assembly has a very low profile heavy-duty friction swivel. This snake is for applications where the two pulling grip elements do not need to be separated. The swivel is greased and has the size range and working load clearly stenciled on the swivel tube assembly.

Always seize the grips' ends by

BANDING AND TAPING

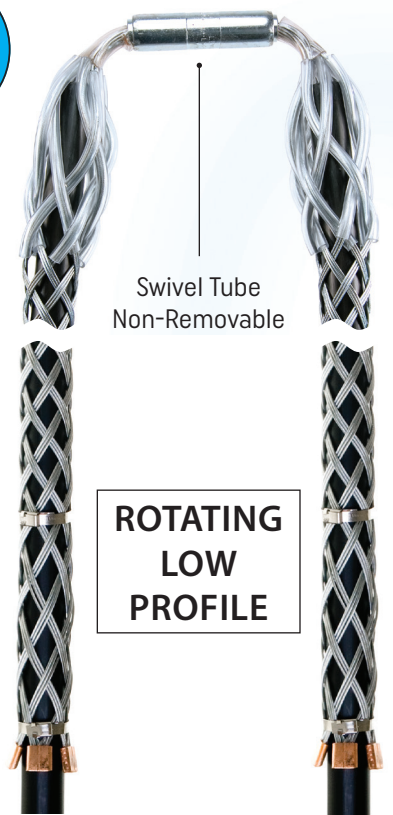
INSPECT & USE



Regular LSGX Snakes	Range	WL lbs.	UTS lbs.
LSGX ¼-½	¼"-½"	1,200	2,400
LSGX ½-1	½"-1"	2,500	5,000
LSGX 1-1½	1"-1½"	3,500	7,000
LSGX 1½-2	1½"-2"	4,000	8,000
LSGX 2-2¾	2"-2¾"	5,000	10,000
LSGX 2¾-3½	2¾"-3½"	5,000	10,000
LSGX 3½-4¼	3½"-4¼"	5,000	10,000

*Special LSGX Snakes	Range	WL lbs.	UTS lbs.
LSGX ¼-1½	¼"-1½"	1,200	2,400
LSGX ½-1½	½"-1½"	2,500	5,000
LSGX ½-2	½"-2"	2,500	5,000
LSGX 1-2	1"-2"	3,500	7,000
LSGX 1½-2½	1½"-2½"	4,000	8,000

*The grips on the Special Size models are not the same on each side.



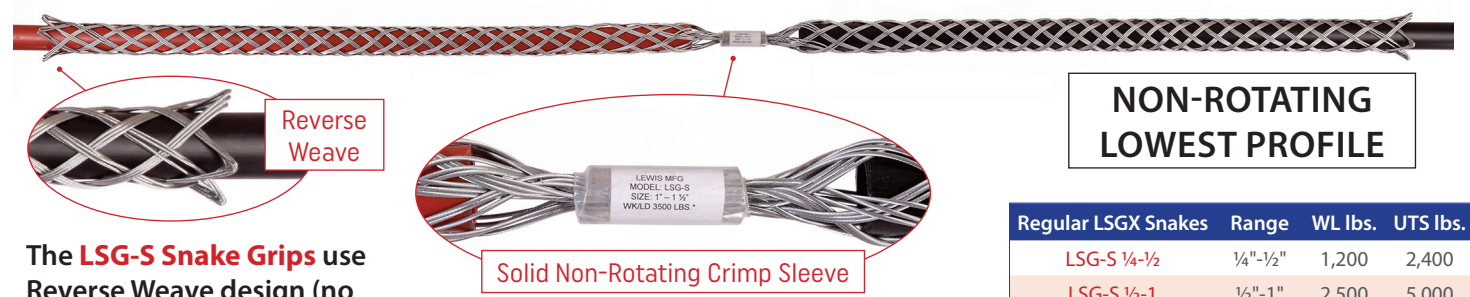
ROTATING LOW PROFILE

LSG-S SNAKE GRIPS

INSPECT & USE



NON-ROTATING LOWEST PROFILE



The **LSG-S Snake Grips** use **Reverse Weave** design (no copper tabs) and have a **Solid Non Rotating crimp sleeve** which makes the grips' two sides non-removable.

These features give this grip the **Lowest Profile** for working in tight spaces. Non-Rotating crimp sleeve prevents the grip from twisting.

Make sure to **BAND AND TAPE** the ends of the grips.

Regular LSGX Snakes	Range	WL lbs.	UTS lbs.
LSG-S ¼-½	¼"-½"	1,200	2,400
LSG-S ½-1	½"-1"	2,500	5,000
LSG-S 1-1½	1"-1½"	3,500	7,000
LSG-S 1½-2	1½"-2"	4,000	8,000
LSG-S 2-2¾	2"-2¾"	5,000	10,000
LSG-S 2¾-3½	2¾"-3½"	5,000	10,000
LSG-S 3½-4¼	3½"-4¼"	5,000	10,000



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LSG-HDFE SNAKE GRIP

GRIPS ONE-TIME USE ONLY

ROTATING STANDARD PROFILE



Assembly Required

SWIVEL INSPECT & USE

LSG-HDFE Snake Grip perform the same function as the standard LSG Snake Grips which is using an existing cable or wire rope to pull a new one on a drilling rig or similar platforms. However the Heavy-Duty LSG-HDFE is designed for a larger wire rope or cable with a range of 1 3/8" to 2" in diameter.

Part No.	Range	Work Load	UTS lbs.	Weave	Mesh
LSG-HDFE	1 3/8" - 2"	9,600 lbs.	28,800 lbs.	Triple	50"

LSG-HDFE Grips are to be used one-time only. Swivel can be used again after a thorough inspection.

Make sure to BAND AND TAPE the ends of the grips.

The HDFE Series Flex Eye is a powerful grip for pulling big conductors and will travel smoothly through pulleys. It is made of the highest quality, flexible aircraft strand steel, integrated with a new flexible eye.

The eye is composed of braided strands (rather than being rigid) to give it maximum flexibility in going around angle pulls or through small openings.

LSG-O SPLICING GRIPS

INSPECT & USE

NON-ROTATING SPLICING ONLY



The Model LSG-O Series is used strictly as a Heavy-Duty Splicing Grip. We offer the LSG-O Models in all size ranges and strengths, too numerous to list.

If you do not see a good match in the table, just give us a call and we will be glad to assist you.

Part No.	Range	Work Load	UTS lbs.	Weave	Mesh
LSG-O-1/4/1/2-24	1/4" - 1/2"	1,200 lbs.	4,400 lbs.	Double	24"
LSG-O-1/2/1-24	1/2" - 1"	2,500 lbs.	7,500 lbs.	Double	24"
LSG-O-1/2/1-36	1/2" - 1"	2,500 lbs.	7,500 lbs.	Double	36"
LSG-O-1/1 1/2-36	1" - 1 1/2"	3,500 lbs.	10,000 lbs.	Triple	36"
LSG-O-1/1 1/2-48	1" - 1 1/2"	3,500 lbs.	10,000 lbs.	Triple	48"

WARNING READ ALL PAGES OF THIS DOCUMENT BEFORE USING ANY LSG MODEL SNAKE GRIPS

SNAKE GRIPS BANDING INSTRUCTIONS ARE LOCATED ON LAST PAGE OF THIS DOCUMENT

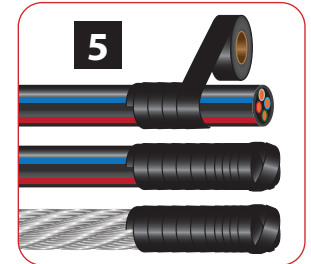
- Safety is always No. 1. Make sure no one is under the line as it is being pulled through the blocks and crown. **DO NOT** stand below or near the drilling line under tension, severe injury or death could occur. **KEEP BACK**
- BAND AND TAPE** — Both ends of the snake grip must be properly banded and taped according to banding instructions that is provided on this document.
- Grips and swivels shown **INSPECT & USE** — Grips and swivels can be used more than one time after thorough inspection before and after each use. If any defects are found the grip or the swivel must be discarded.
- Grips shown **ONE-TIME USE ONLY** — These grips are for One-Time Use Only. After each snake grip is used once, it must be discarded.
- For any questions or comments regarding safe usage of your LSG Snake, please **Call Toll-Free 1-833-646-8480**



SNAKE GRIPS BANDING INSTRUCTIONS

READ & FOLLOW THIS BANDING INSTRUCTIONS BEFORE USING ANY LEWIS LSG GRIPS!

- Safety is always No. 1. **KEEP BACK**, make sure no one is under the line being pulled through the blocks & crown. **DO NOT** stand below or near the drilling line under tension, severe injury or death could occur.
- Be sure that the right size range grips are being used for the line or rope being pulled. For Example, for 1 3/8" cable, use a 1-1 1/2" range grip.
- Inspect the grip for any signs of defect. A grip showing any signs of cable fraying, broken cables or distorted hardware should be immediately removed from service & discarded.
- Make sure the cable is clean and free of grease and oil in the area that will be loaded into the grip. A high grade degreaser and heavy duty disposable towels are recommended.
- Tape the end of the cable or wire rope before inserting into the grip so that the sharp ends of the grip or wire rope do not damage the grips interior mesh.
- When loading the cable into the grip, be certain the cable is inserted all the way into the grip until the grip is fully loaded into the area below the pulling eye of the grip.
- Do Not Band or Tape the head (eye side) of the grips. This increase the diameter of the head unnecessarily and could create restriction points.



- Once the snake is loaded properly, **BAND AND TAPE** the tail end of the grips using a **BAND-IT**® brand banding tool & electric tape. **NOTE:** Use a BAND-IT® tool and bands and tape over the bands. Taping alone is not reliable and can be a safety hazard especially in overhead high tension pulling applications.

TOOLS

Select Band Width for OD of Loaded Grip
1/4" wide for Overall Dia. of 7/8" or less
Use BAND-IT Tool J02069 (photo)
1/2" Wide for OD of 1" or more
Use BAND-IT Tool C00169

Use proper Banding Tool for the band width size selected.
Model J02069 banding steps shown here.

A BAND-IT Tool J02069
B BAND-IT Tool C00169

B Wrap band around grip. Thread band through buckle, insert into nose of tool and feed through slot in winding mandrel.

C Turn the built-in ratchet on the winding mandrel to tighten down the band.

E Use the cutting lever to cut the band and remove the tool.

F Use a hammer to flatten down the remaining tail and secure by tapping down the ears.

D When the band is tight, flip the BAND-IT tool over the buckle.

G On each grip double band the grip's end 4 to 6 inches apart.

H Finally use Electric Tape to tape over the bands on each grip to create a smoother, snag-resistant surface. **DO NOT USE DUCT TAPE!**

- ONE-TIME USE ONLY** grips should be discarded after each use. For **MULTI-USE** grips and swivels aka **INSPECT & USE**, after each use remove the snake grip, inspect, clean & store it in a dry and protected location so that the snake grip is not exposed to harsh environments such as offshore drilling platforms or other salty, corrosive environments.
- For any questions or comments regarding the safe usage of your LSG Snake Grips, please **Call Toll-Free 1-833-646-8480**