



Operations and Instruction Manual

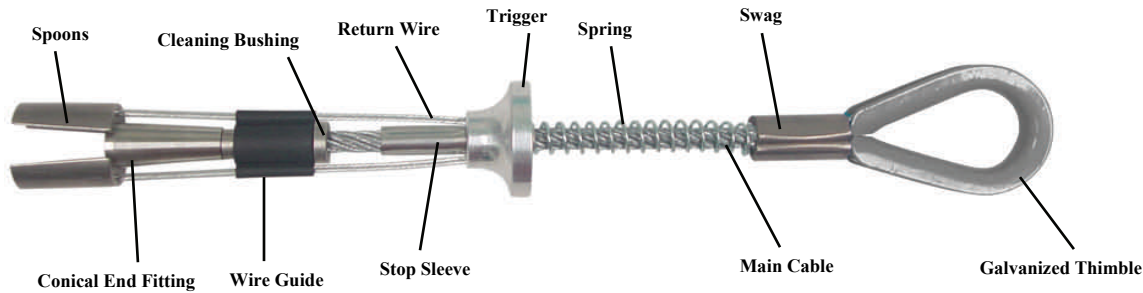
Multi-Use Miller Grip Anchorage - Model #499

Portable Anchorage Connector

2,000 lbs / 8.8 KN Safe Working Load

Made in the USA

1" Multi-use Miller Grip Anchorage



IMPORTANT!!

Users should be familiar with pertinent regulations governing this equipment. All individuals who use this product must be correctly instructed on how to use this device.

Miller's 10,000 lb Multi-Use Miller Grip can be used in either concrete or rock substrate. DO NOT use in steel, wood or any other substrate.

This product is to used in concrete or rock substrate only.

Miller Grips can be placed in:

- * Horizontal surfaces
- * Vertical surfaces
- * Overhead / ceiling surfaces

1. Follow all manufacturer's instructions.
2. Use only locking snap hooks or locking carabineers.
3. Always inspect your units prior to use.
4. Use the proper method of coupling to anchorage.
5. Patch all holes with concrete when job is complete.
6. Pregnant women and minors must not use this product.
7. Designed safe working load is 2,000 lbs (8.8 KN).

WARNING!!

All persons using this equipment must read and understand all instructions. Failure to do so may result in serious injury or death. All persons using this equipment must know the weight or load being applied to this unit.

DO NOT use this Product - Model #499 for fall protection.
Use for lifting, hoisting or scaffold tie back only.

IMPORTANT!!!

**Do not drill a hole closer than 10" from any corner.
The concrete substrate must be at least 20" wide and 10" thick.**

Inspection:

1. Make sure unit is straight and operates smoothly.
2. Make sure trigger stop is not bent or damaged.
3. Make sure cables are not kinked, frayed or damaged.
4. Make sure metal components are not damaged.
5. Make sure metal spoons and conical end fitting operate smoothly and no metal burrs have occurred.
6. When reusing a previously drilled hole, always inspect the hole carefully.

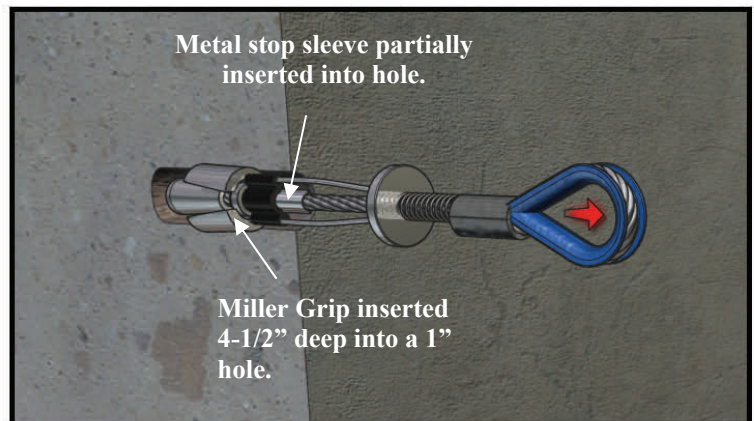
Storage and Cleaning:

1. Blow off unit after each use with compressed air.
2. Store in clean dry environment.
3. Store in secure locked area.
4. Store and put away at the end of each day's work.
5. Do not pile any objects on top of unit during storage.
6. Keep unit free of grease, oils and dirt.
7. Never lend your unit to other workers.

Disposal:

1. Dispose of unit if cable becomes kinked or bent.
2. Dispose of unit if trigger stop is bent or damaged.
3. Dispose of unit if trigger action is rough or sticky.
4. Dispose of unit if return wire becomes bent or frayed.
5. Proper disposal requires the unit's spoons be cut off the return wires and thrown away.

It is important that you drill your Miller Grip hole to the manufacturer's required depth and hole structure. All holes must be 1" in diameter and drilled at least 4-1/2" into the substrate and the bored hole walls must be straight and parallel. NOTE: The bored hole must be of uniform diameter and free of peaks and valleys on the inner wall surfaces. Only use quality industrial grade rotary hammers and rotary hammer drill bits. **NEVER USE A BENT DRILL BIT!!**



**Only use industrial grade rotary hammer drills and drill bits.
DO NOT USE masonry drill bits**

- Drill a 1" diameter hole at least 4-1/2" deep.
- Use recommended drill type and size.
- Blow hole clean with compressed air.
- Drill hole straight into substrate.
- When reusing a previously drilled hole always inspect the hole carefully.
- Insert unit 4-1/2 inches deep into hole.
- Set the unit with a slight tug on the anchor loop.
- The stop sleeve must always be partially inserted into the hole.
- Always inspect a previously drilled hole for deformation. Drill another proper hole if needed.
- Inspect the unit for damage each time you use it. If damage has occurred, dispose of unit.
- Never lend your unit to other workers.
- Never rely on a unit placed by unqualified workers.
- Remove your unit at the end of each day.
- Never leave a unit inserted in a hole overnight.
- Never drill hole closer than 10" to any edge or corner.

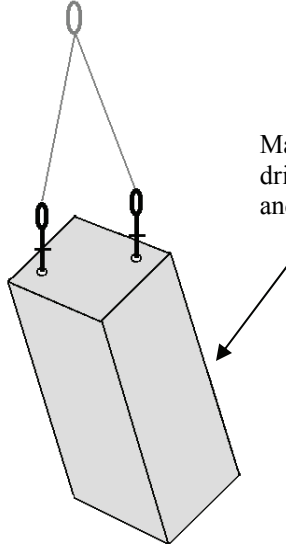
**Drill a straight 1" diameter hole
4 -1/2 " deep into your substrate.
This image is a Makita rotary hammer
drill that uses industrial grade SDS bits..**



This illustrated drawing shows a concrete block being lifted by 2 - Model #499 10,000 lb Multi-Use Miller Grips.

Dimensions and weight of the concrete block
(30" x 30" wide and 36" long - 25.5 cubic feet)
(3,825 lbs)

NOTE: By using 2 Miller Grips, each unit will be holding 1,912 lbs. It is the end user responsibility to know the proper techniques for all lifting or hoisting applications.



Make sure your holes are drilled 10" from the end and 10" each other.

Lifting Requirements

This product has a safe working load of 2,000 lbs. It is the end users responsibility to know the weight of the object being lifted or supported. You must also know how to stabilize your object with the correct locations of your anchor points as well as using multiple units with an object. This unit is used for light lifting, hoisting and anchor points for scaffolding and staging.

- 2,000 lb safe working load.
- 10,000 lb maximum breaking strength.
- Do not use in uncured concrete.
- Always inspect your unit prior to use.
- Always dispose of unit if Thimble becomes bent or damaged.
- Keep hole 10" from an edge.
- Substrate must be at least 10" thick
- Use multiple units to stabilize object if needed.
- Hole must be drilled properly.
- Never stand under an object being lifted.

CONCRETE WEIGHT SCALE

1 cubic foot of concrete weights approximately (140 lbs - 150 lbs)

When placing a Miller Grip, Place your thumb inside the anchor loop and your first two fingers around the trigger. Retract the trigger until the spring bottoms out. With your other hand, pinch the two spoons between your thumb and index finger. IMPORTANT; Make sure the cleaning bushing is not wedged between the two spoons. Hold the trigger fully retracted while inserting the unit into bottom of the hole. DO NOT force the unit into the hole. Insert the unit slowly and gently.

Main Cable	7x 19 Galvanized Cable	Return Wire	1x19 Galvanized Cable
Rotary Swage	304 Stainless Steel	Trigger	6061 T6 Aluminum
Spoons	304 Stainless Steel	Spring	Zinc Coated Spring Steel
Cleaning Bushing	304 Stainless Steel	Swage	Zinc Coated Copper
Stop Sleeve	304 Stainless Steel	Thimble	Color Coded Green

If a Miller Grip becomes stuck, insert a flathead screwdriver into the hole until the tip rests on the cleaning bushing. Give a LIGHT, blunt hit with your palm or a hammer. DO NOT strike the screwdriver hard or it can damage the cleaning bushing

