

GEMTORTM

... when your life is on the lineTM

OWNER'S MANUAL

**Installation, Operating, Inspection and Maintenance Instructions
Sentry Man-Rated Personnel and Material Winch**

**Model #'s: MRW-50
MRW-50S
MRW-100
MRW-100S**



⚠ Warning

You must read and fully understand all instructions, or have all instructions explained to you, before attempting to use this device. Equipment must not be installed, operated or inspected by anyone who does not understand this Owner's Manual. Failure to observe these instructions could result in serious injury or death. Careless or improper use of this equipment can result in serious injury or death. Training and instruction review should be repeated at regular intervals. If you have any questions regarding these instructions or need additional copies, call Gemtor toll free at 800-405-9048.

**IMPORTANT: THESE INSTRUCTIONS SHOULD BE KEPT
WITH THE DEVICE AT ALL TIMES.**



Gemtor, Inc. • One Johnson Avenue • Matawan, NJ 07747
Phone: 732-583-6200 • 800-405-9048 • Fax: 732-290-9391
Web: www.gemtor.com • Email: sales.info@gemtor.com



IMPORTANT INFORMATION:

Purchased from (Distributor): _____

Address: _____

City: _____ **State** _____ **Zip** _____

Purchase Date: _____

Model Number: _____

Serial Number: _____

Property of:

Keep this information for future reference.

IMPORTANT: Return registration card immediately

DESCRIPTION:

The Gemtor Sentry MRW-50/MRW-100 is a man-rated Personnel and Material winch which incorporates a friction brake system and a fully independent centrifugal brake system. The Sentry provides the ability to perform a rescue operation in OSHA defined Confined Space, i.e. manholes, tanks, vats, etc.

Care should be taken to insure that all equipment will be clear of electrical hazards and that proper ventilation has been provided in the work area before the worker descends into the confined space. It is recommended that the worker wear a full-body harness that complies with OSHA, so that an injured worker can be winched up and retrieved through an opening without having another person enter the confined work space.

Personnel using the Sentry System and personnel that may be required to perform a rescue operation must be instructed in the correct use of the system. All operators must read and understand all instructions pertaining to the use of the Sentry System and must be trained in its proper use.

SPECIFICATIONS:

	MRW-50	MRW-50S	MRW-100	MRW-100S
Maximum Work Load	300 lbs.	300 lbs.	300 lbs.	300 lbs.
Cable Length	50'	50'	100'	100'
Cable Diameter	3/16"	3/16"	3/16"	3/16"
Lifeline Breaking Strength				
Galvanized	4200 lbs.	N/A	4200 lbs.	N/A
Stainless Steel	N/A	3700 lbs.	N/A	3700 lbs.
Technora	N/A	5600 lbs.	N/A	5600 lbs.
Weight	35 lbs.	35 lbs.	40 lbs.	40 lbs.

TRAINING:

From OSHA 1910.146 (see The Federal Register for the full text)

(g) Training.

(1) The employer shall provide training so that all employees whose work is regulated by this section acquire the understanding, knowledge, and skills necessary for the safe performance of the duties assigned under this section.

(2) Training shall be provided to each affected employee:

(i) Before the employee is first assigned duties under this section;

(ii) Before there is a change in assigned duties;

(iii) Whenever there is a change in permit space operations that presents a hazard about which an employee has not previously been trained;

(iv) Whenever the employer has reason to believe either that there are deviations from the permit space entry procedures required by paragraph (d)(3) of this section or that there are inadequacies in the employee's knowledge or use of these procedures.

(3) The training shall establish employee proficiency in the duties required by this section and shall introduce new or revised procedures, as necessary, for compliance with this section.

(4) The employer shall certify that the training required by paragraphs (g)(1) through (g)(3) of this section has been accomplished. The certification shall contain each employee's name, the signatures or initials of the trainers, and the dates of training. The certification shall be available for inspection by employees and their authorized representatives.

INSTALLATION:

Mounting to Tripod:

The Sentry device is furnished with a mounting bracket and locking pins for attachment to a Gemtor tripod. The device can be mounted to any leg of the tripod; position the device on the tripod leg and align the holes in the mounting bracket with the holes in the tripod leg. Secure device with locking pins. Check that pin bearings are completely through bracket and are fully extended. Insert locking clips in holes at end of locking pins. Extend cable out of housing, open pulley by sliding sides in opposite directions, place cable over pulley sheave and close pulley. Attach pulley to snaphook on the head of the tripod. Attach locking swivel snaphook to back D-ring of appropriate full-body harness or shoulder D-rings using a Y-lanyard.

Mounting to Quadpod or Davit:

The Sentry device is furnished with a mounting bracket and locking pins for attachment to a Gemtor Quadpod or Davit. The device can be mounted to either of the mounting positions on the quadpod/davit boom; position the device on the boom's mounting block and align the mounting holes on the bracket and block. Secure device with locking pins. Check that pin bearings are completely through bracket and are fully extended. Insert locking clips in holes at end of locking pins. Extend cable out of housing, remove cable retaining pin at end of boom, place cable over pulley sheave and reinsert pin. Attach locking swivel snaphook to back D-ring of appropriate full-body harness or shoulder D-rings using a Y-lanyard.

INSPECTION:

Before each use, inspect the entire unit for any indication of damage, wear or malfunction to include, but not limited to, worn cable or damaged locking snaphook. Remove from service immediately if the unit is damaged, has been subjected to a fall, does not pass inspection or if the unit has not been inspected by the Gemtor factory within the last 12 months.

DO NOT attempt to adjust, repair or modify Sentry winches; for prompt repair, reconditioning or re-certification, return the unit to Gemtor, Inc., prepaid.

Inspect work area:

Inspect and clear the vicinity around the work area of debris and other materials that could cause injuries or interfere with the operation of the device.

Check cable:

Crank all cable out of housing and slowly crank back into the housing. While the cable is retracting, check for cuts, kinks, broken strands, excessive wear, foreign substances or other damage.

Inspect snaphooks and connecting hardware:

Snaphooks and connecting hardware shall not be distorted or have any sharp edges, burrs, cracks, worn parts or corrosion. The snaphook keeper spring shall provide tension to close the keeper in the locked position.

OPERATING INSTRUCTIONS:

1. Unscrew the crank handle from the housing and slide it outward.
2. The Handle has multiple positions, The shortest position requires more force but allows for faster retrieval, the longer positions require less force but may require more time to retrieve the worker. To switch between positions, unscrew the wing nut in the center of the handle, move the handle to the desired position and reinstall the wing nut.
3. While maintaining outward tension on the cable, rotate the winch handle clockwise to crank the cable back into the housing. (Raising)
4. To extend the cable for lowering, crank counterclockwise. When cranking the cable out, a minimum of 75 pounds must be on the cable. (Lowering)



Short Position



Long Position

CAUTION: Do not crank all of the cable back into the housing or through the pulley. This will cause excessive tension on the cable and may cause equipment damage or personal injury. Should there be excessive tension, attach a minimum weight of 75 pounds to the cable and crank the handle counterclockwise until the pressure is released. When the job is completed, screw the winch handle into the bracket, remove the device from the tripod and store/transport device in its carrying bag.

IF YOU HAVE ANY QUESTIONS CONCERNING THE CORRECT USAGE OF THIS OR ANY GEMTOR PRODUCT, DO NOT USE, CALL (TOLL FREE) 1-800-405-9048

WARNINGS:

The MRW is a retrieval and lowering device, **NOT FOR FALL PROTECTION**. An independent fall protection system must be used if the worker is exposed to a fall hazard.

- **DO NOT USE IF:**
 - The device appears to be damaged.
 - The cable is worn or partially cut.
 - The locking snaphook does not function properly.
 - The unit has been subjected to a fall.
 - The winch does not function correctly.
 - The unit has not inspected by the factory within the last 12 months
- **DO NOT** attempt to adjust, repair or modify Sentry Winches; for prompt repair or reconditioning, return the unit to Gemtor, Inc., prepaid.
- **DO NOT** use steel cable near electrical lines or equipment.
- **DO NOT** attach more that one worker to the device.
- **DO NOT** use for lifting or towing except as described.
- **DO NOT** use as a work positioning device.
- **NEVER** clamp off or stand on cable nor allow cable to become slack during use.
- **NEVER** allow cable to cross under or wrap around the legs, arms, neck or torso of the user or other workers. **Never use this device for raising or lowering of a worker without an independent fall protection system.**

CAUTION: Do not crank all of the cable back into the housing or through the pulley. This will cause excessive tension on the cable and may cause equipment damage or personal injury. Should there be excessive tension, attach a minimum weight of 75 pounds to the cable and crank the handle counterclockwise until the pressure is released. When the job is completed, screw the winch handle into the bracket, remove the device from the tripod and store/transport device in its carrying bag.

Equipment must be inspected before each use; if bent, damaged or if parts have been substituted **DO NOT USE**. Return to Gemtor for reconditioning or repair.

IMPORTANT: This device should be returned to our facilities on an annual basis for physical inspection and re-certification or whenever damaged subjected to fall arrest forces (impact loaded). Only original Gemtor replacement parts are approved for use in this device.

Do not try to adjust, repair or modify Gemtor retrieval winches; for prompt service, please contact: Gemtor, Inc., One Johnson Avenue, Matawan, NJ 07747, tel. 732-583-6200

