

Microtrac™ 4000

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About This Manual

This manual has been prepared to assist you in the operation and maintenance of your Eddyfi Technologies equipment. Correct and prudent operation rests with the operator who must thoroughly understand the operation, maintenance, service and job requirements. The specifications and information in this manual are current at the time of printing.

This product is continually being updated and improved. Therefore, this manual is meant to explain and define the functionality of the product. Furthermore, schematics or pictorials and detailed functionality may differ slightly from what is described in this manual. Eddyfi Technologies reserves the right to change and/or amend these specifications at any time without notice. Customers will be notified of any changes to their equipment.

Information in this manual does not necessarily replace specific regulations, codes, standards, or requirements of others such as government regulations.

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Description

The Microtrac™ 4000 is a small, self-contained tractor module complete with its own electric motor and drive train. They are designed for harsh environments including confined spaces, underwater, radioactive areas, and in some harsh chemical solutions. Microtrac modules may be operated in pairs to make a steerable platform or used in-line to fit in small spaces. Applications include storm and sewer pipe inspection, use with bomb disposal robots, industrial inspection, and custom vehicles for nuclear facility inspection and waste cleanup. Microtracs are made in three varieties: aluminum, brass or stainless steel. The choice of

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track material will depend on its end use. In all versions, the final drive power is delivered through a deep lug rubber track belt in either standard or extended length. As well, the track can be configured for both left-hand and right-hand operation.

Specifications

| | | |
|---------------------|----------------------------|---|
| Motor Options | Standard | 24 VDC / 62:1 |
| | | 124:1 (12825/104) Total |
| | High Torque | 24 VDC / 157:1 |
| | | 314:1 (39366/125) Total |
| Operating Voltage | Embedded | 36 – 70 VDC |
| | Direct Drive | 0 – 24 VDC |
| Operating Current | Embedded | 1.7 A Peak |
| | Direct Drive – Standard | 2.0 A Peak |
| | Direct Drive – High Torque | 1.5 A Peak |
| Maximum Speed | Standard | 9 m/min (30 fpm) |
| | High Torque | 3.5 m/min (11.5 fpm) |
| Pull Rating | | See <i>Basic Load Specifications</i> below |
| Payload | Standard | Up to 13.5 kg (30 lb) |
| | High Torque | Up to 23 kg (50 lb) |
| Operating Temp | | -0 ° – 50 °C (32 ° – 120 °F) 80 °C (175 °F) Maximum Internal |
| Storage Temperature | | -20° – 60 °C (-4 – 140 °F) |
| Duty Cycle | In Water | 100% |
| | In Air | Dependant upon load and heat sinking |
| Communications | Embedded | RS-485 Device Protocol |
| Feedback | Embedded | Temperature, motor current, motor speed |
| Depth Rating | Standard | 150 m (500 ft) (Standard) |

| | | | |
|---------------|-----------------|-----------------|-------------------------------------|
| | Deep Water | | 300 m (1000 ft) (Deep Water) |
| Weight | Standard Length | Aluminum | 1.1 kg (2.3 lb) |
| | | Brass | 2.2 kg (4.9 lb) |
| | | Stainless Steel | 2.1 kg (4.7 lb) |
| Weight | Extended Length | Aluminum | 1.2 kg (2.6 lb) |
| | | Brass | 2.4 kg (5.3 lb) |
| | | Stainless Steel | 2.3 kg (5.1 lb) |
| Lubrication | | | Molykote G-1502 FM Food Safe Grease |
| Motor Encoder | Standard | | 9-Bit Step Direction |
| | Optional | | 10-Bit Quadrature |

Precautions



IMPORTANT: When configuring a 70V system, check to see if the tracks are compatible. Older versions of Microtracs™ 4000 are not 70V compatible. Look for the Wide Input Voltage symbol **W** located on the side plate of the track indicating 70V compatibility.

Certification

The product is built in accordance with:

Machinery Directive 2006/42/EC, and

Electromagnetic Compatibility Directive 2004/108/EC and Directive 2014/30/EU



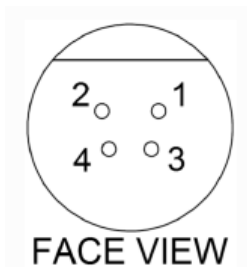
Connector Pin-Out

Standard Tracks

The embedded Microtrac™ 4000 uses a 4-pin Impulse IE-55 connector on the side of the track to connect power and communications. Contact Eddyfi Technologies for details of the RS-485 control protocol.

Note: Pin-out is shown for the Bulkhead Connector on the track.

| Pin | Function |
|-----|----------------|
| 1 | 70 VDC (+) |
| 2 | 70 VDC GND (-) |
| 3 | RS485A (+) |
| 4 | RS485B (-) |

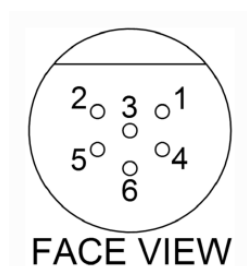


Direct Drive Tracks

The direct drive Microtrac™ 4000 uses a 6-pin Impulse IE-55 connector on the side of the track to connect motor power, encoder power and encoder signals. Contact Eddyfi Technologies for details of the encoder feedback.

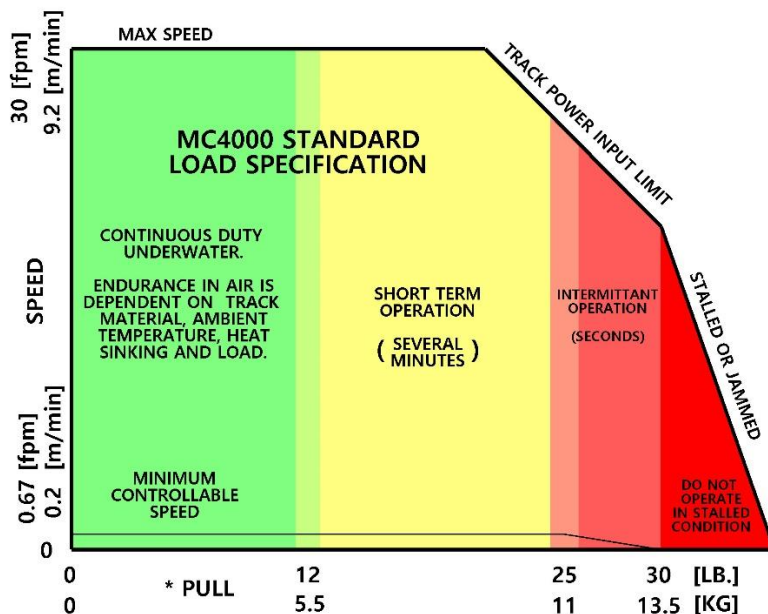
Note: Pin-out is shown for the Bulkhead Connector on the track.

| Pin | Function |
|-----|----------------------|
| 1 | Motor 0 – 24 VDC (+) |
| 2 | Motor GND (-) |
| 3 | Encoder A (+) |
| 4 | Encoder B (-) |
| 5 | Encoder 5 VDC (+) |
| 6 | Encoder GND (-) |

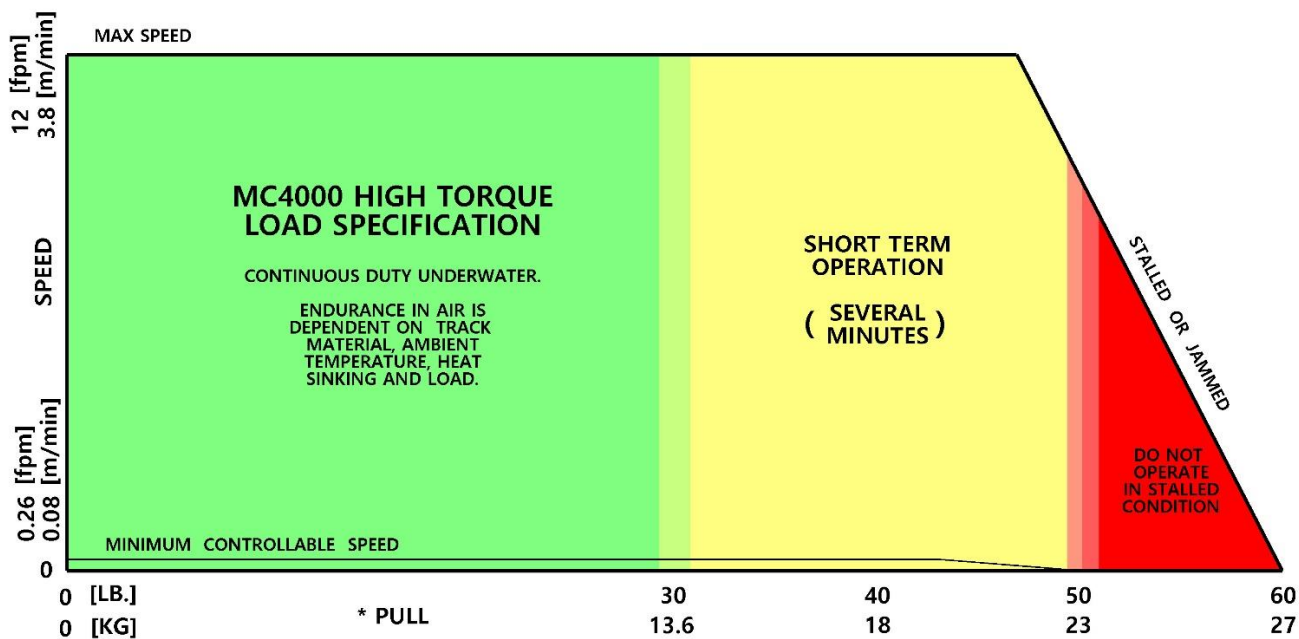


Load and Speed Specifications

Basic Loading Specifications



* Operating with rated 30 lb. payload, driving straight on a level surface.



* Operating with rated 50 lb. payload, driving straight on a level surface using 70-durometer belt.

The above diagram details the speed and loading specifications of the standard and high-torque Microtracs. There are four regions defining performance:

- **Continuous Duty:** Preferred operating region.
- **Short Term Operation:** Operation permitted for several minutes.
- **Intermittent:** Surge loading allowable for a few seconds at a time.
- **Stalled / Jammed Condition:** Automatic limiting is engaged to protect the motor and gearing. Do not operate the track in the stalled or jammed condition.

Influences on Loading

For a typical tracked vehicle there are multiple factors that can increase load and diminish track performance. These include the following and are detailed below:

- Additional Payload
- Inclines
- Effects of Differential Steering (skid steering with parallel tracks)
- Curved Geometry of a pipe
- Elevated Temperature / Poor Heat Sinking / Thermal Shut-Down

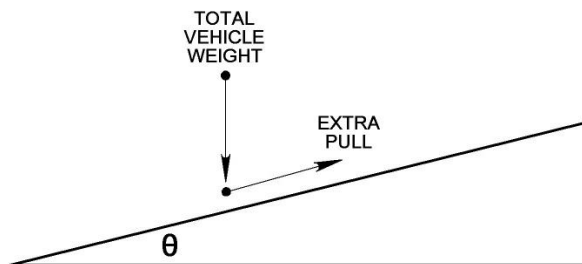
Additional Payload

Additional Payload may be added to the track, but the expected pull performance must be de-rated as per the calculation below. Additional payload also affects differential steering, inclines and curved pipe geometry (see below).

$$\text{Pull Reduction} = 0.25 \times \text{Extra Weight}$$

Inclines

Inclines cause the track to lift the vehicle weight against gravity and increase the track pulling load. Calculate the incline load using the equation below. Magnetic downforce does not affect loading from inclines — only forces from gravity. Note that the constant load from gravity becomes a significant factor on vertical surfaces because the motor is working to resist the load even when the track is stopped.



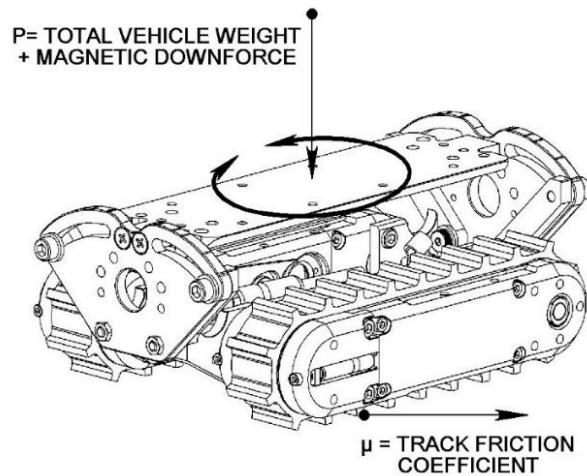
$$\text{EXTRA PULL} = (\text{TOTAL VEHICLE WEIGHT}) \times \sin(\theta)$$

Additional pull required to climb an inclined pipe, pole or rope.

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Differential Steering

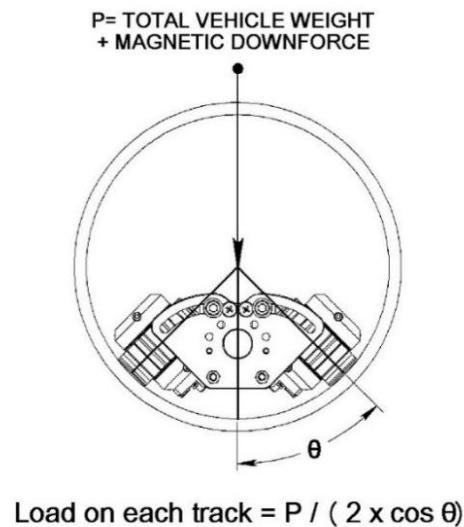
Differential Steering means steering by varying the speed of two tracks such as with a tank or bulldozer. During the steering process the tracks are dragged sideways in addition to forward / backward movement. The sideways movement adds to the total track load and requires extra torque from the motor. The greatest increase in loading occurs during a spot turn; the load being calculated as per the equation below. A typical 13.5 kg (30 lb) magnetic VT100 with 13.5 kg (30 lb) of down-force on a surface with friction coefficient $\mu = 0.5$ will experience an additional 8kg (18 lb) load per track to execute the spot turn. When steering on a vertical surface include only the magnetic down-force for the differential steering load calculation.



Additional Load On Each Track
For Differential Steering = $0.6 \times \mu \times P$

Curved Geometry

Curved Geometry inside a pipe will increase the payload on a track depending on the angle of contact with the pipe. For nearly flat tracks the increase is small. For a contact angle of 60°, the load is doubled. The same calculation is used for a track contacting the outside of a pipe. Include both vehicle weight and magnetic downforce for this calculation.



Elevated Temperature & Thermal Shutdown

'Duty Cycle' refers to the length of time a track can run before overheating, and the following time required to cool down. The duty cycle of the Microtracs™ 4000 depends on:

- Track Material Thermal Conductivity (Aluminum, Brass = Good; Stainless = Poor)
- Ambient Temperature
- Track Load & Speed
- Wet / Dry Operation
- Heat Sinking

A track typically converts about 25% of the electrical input into motive mechanical power with the remainder being converted into waste heat transferred to the environment outside the track. When run continually at maximum power in a warm environment - up to 50 °C (120 °F), the tracks can heat up to the maximum temperature within ½-hour. However, this does not represent normal operation. Typical usage will include much starting and stopping for visual/NDT inspections and moderate loading for most of a pipe run for pulling tether – so reaching the thermal limit of the track is not expected to be a common operational concern. When tracks are bolted to a chassis, it further acts as a heat sink to help cool the tracks.

When a tracks internal temperature reaches 80 °C (175 °F) it will automatically shut down and wait until its internal temperature drops below 70 °C (160 °F) before restarting. If the tracks are operating underwater, such as in a flooded pipe, heat transfer is excellent, and the duty cycle may be considered continuous.



Note: Stainless steel tracks will require special consideration for cooling, as they reach thermal shutdown sooner due to the extremely poor thermal conductivity of the stainless steel itself.

Safety

In order to be able to use this product properly and safely, every user must first read these operating instructions and observe the safety instructions contained therein. Take care of these operating instructions and keep them in a place where they can be accessed by everyone.



CAUTION: Failure to follow these safety instructions may result in injury or equipment damage.



WARNING: High Voltage 36-70 VDC. If the equipment is powered from a source other than an Eddyfi Technologies provided controller, the power supplied to the product must have reinforced isolation from the mains with no reference to earth ground.



CAUTION: Disconnecting the track while the power is on can cause damage to the camera. Disconnect the power source before servicing the product.



CAUTION: High Temperature. Under rated operating conditions this track can become very hot, up to 80 °C (175 °F).



WARNING: Spark Hazard - Under no circumstances should this equipment be used in a potentially explosive atmosphere.

- The Microtrac™ 4000 is an industrial product. All personnel operating or maintaining this equipment must be competently trained.
- There are no user serviceable parts inside. This product may be serviced only by qualified technicians or trained personnel.
- Eddyfi Technologies equipment is used in many varied environments from hot/dry to confined spaces to deep underwater. Such diverse environment risks must be addressed by the operators who are trained to work in such surroundings. As such, the operator is responsible to determine safe site setup and appropriate procedures for deployment, operation and maintenance of the equipment.
- Appropriate personal protective equipment (PPE) must be worn while operating and maintaining the equipment.
- Do not use the product or any component exposed to pressures higher than the rated working pressure.

In addition, observe the following precautions when cleaning or servicing the Microtrac™ 4000

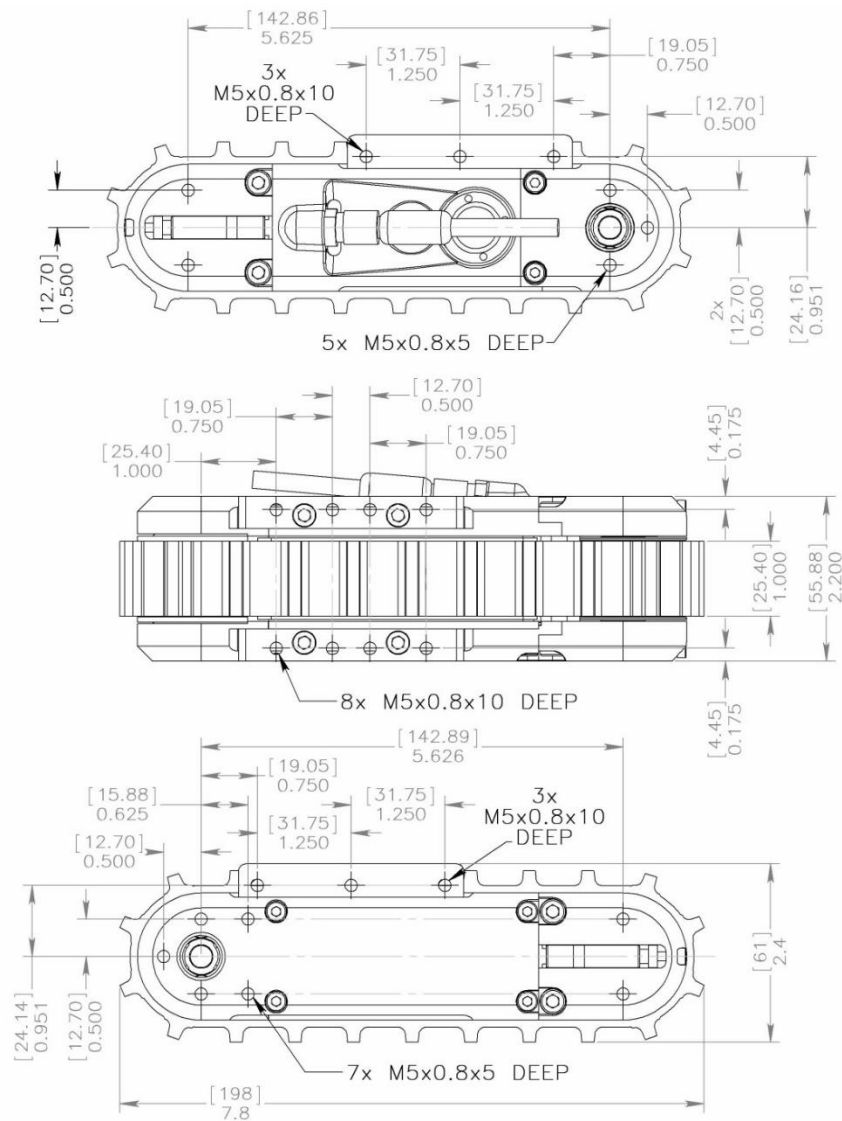
- Do not operate the track with a damaged connector or cable. Inspect connectors and cables regularly for damage.
- Avoid creating a pinching hazard when designing a vehicle based on these tracks.
- Lay the track on its side if you are powering it up on the workbench.
- DC-Controlled tracks (without internal driver) must be protected by current limiting either by fuse or electronically by the power supply. Current limiting and fuses are included standard with system controllers.

Contact the Eddyfi Technologies service department for assistance or service if needed.

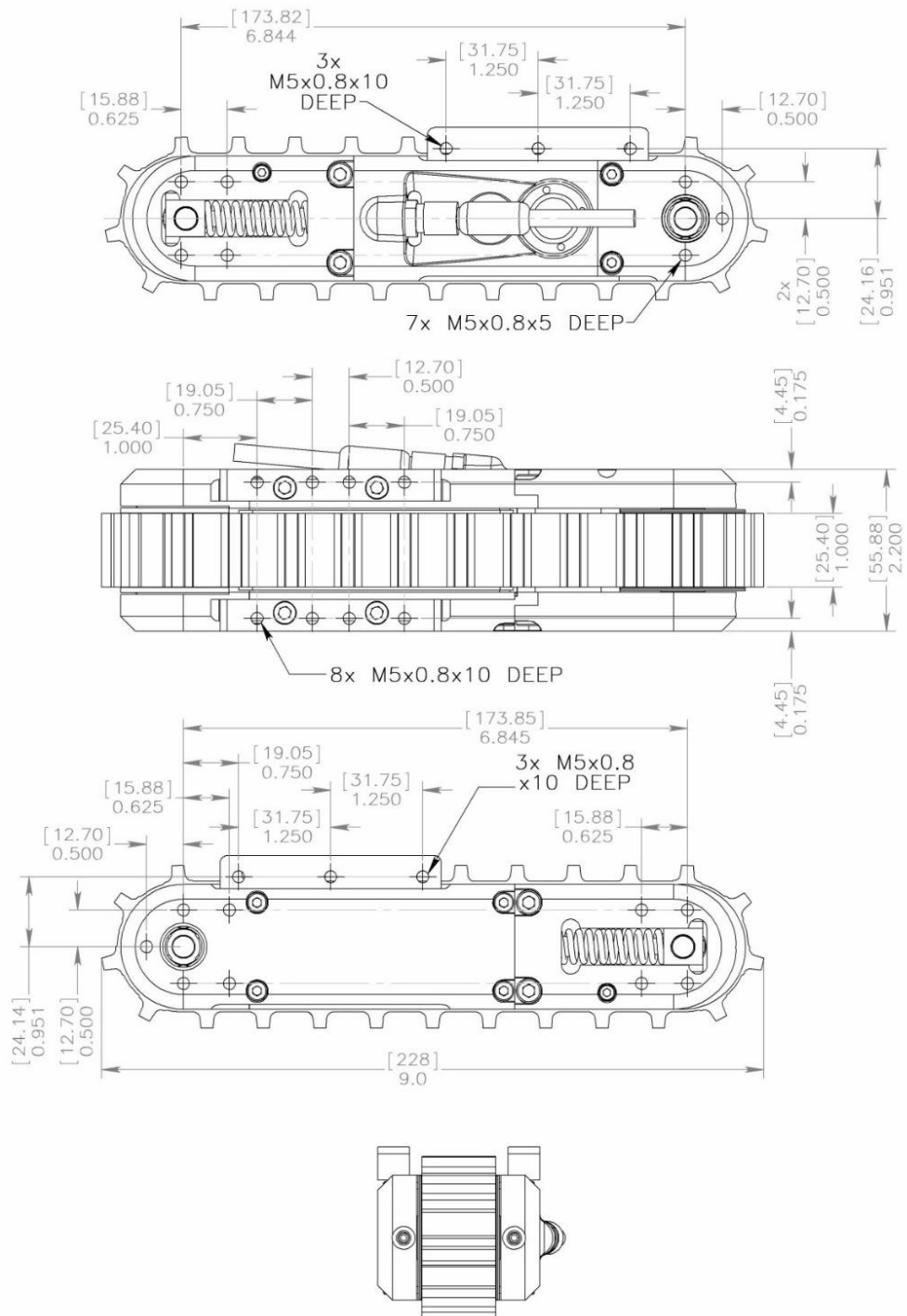
System Setup

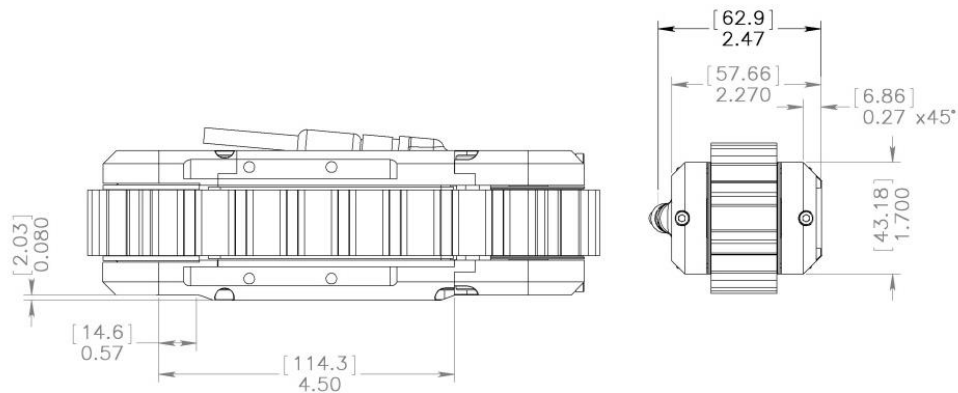
Mounting the Track

Microtracs are provided with a variety of mounting locations on the sides, top and bottom. Use of any three mounting holes is enough to support the rated load. When using the side flange holes, make sure the screws do not protrude beyond the flange and into the track belt. Mounting holes are also provided on the sides of the Microtracs for in-line or chassis sidewall mounting. Note that hole depths can be different depending on the position. All holes are tapped M5. Mounting hole locations are shown below for standard and extended tracks.



MICROTRAC™ 4000 STANDARD

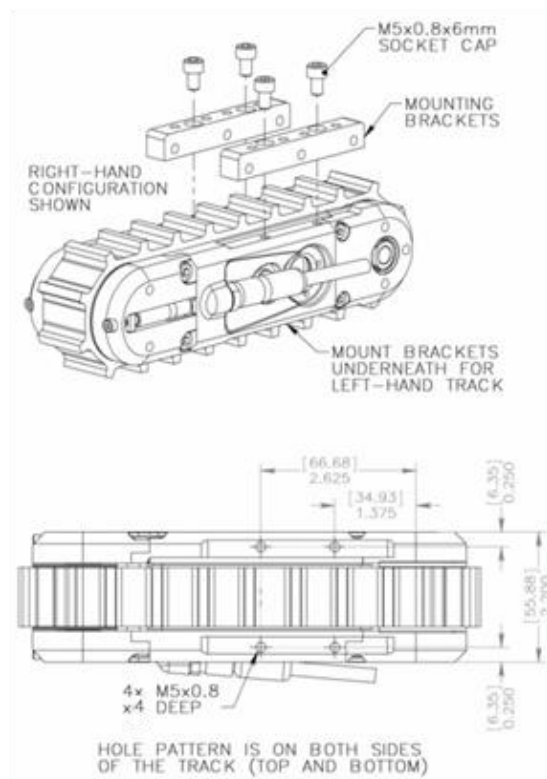

MICROTRAC™ 4000 EXTENDED



MICROTRAC™ 4000 DEEP WATER

Flange Adapter

Flange adapters come standard with the Microtrac™ 4000 for mounting to chassis plates or legacy systems. Tracks can be configured for left or right-hand operation depending on which side the flanges are mounted – top or bottom. Flanges may also be ordered with Imperial threads for non-metric installations.



MICROTRAC FLANGE ADAPTER

Connector Handling

Connectors are an essential part of system reliability. They should be properly maintained and cared for to ensure long life and reliability. It is recommended to follow these steps to help prevent damage and increase the life of connectors.

- Always inspect the end of the connector prior to engaging
- Never plug in a dirty or damaged connector
- Visually align keyways or locating pins prior to engaging the connector
- Always fully engage or tighten the connector
- Secure locking collars finger tight
- Install dummy plugs on unused connectors
- Disconnect by pulling straight, not on an angle
- Do not pull on the cable to disengage the connector
- If lubrication is required, use 3M Silicone spray or equivalent. **DO NOT GREASE**
- Clean connectors with soap and fresh water, rinse out with alcohol and compressed air. Allow connector to dry before using.



IMPORTANT: Never “Hot Plug” any connector, this will result in internal damage to the electronics. Power down the system prior to connecting the inspection system tether.

Note: Never use WD-40 or similar solvent-based fluids on connectors. These will cause the rubber parts of the connector to soften and swell rendering them inoperable.

Belt Installation & Tensioning

Microtrac™ 4000 belt replacement and tensioning has been made easy by a spring tensioning system that automatically aligns and tensions the track belt. Procedures vary between the standard-length, extended-length, manual and spring tensioned tracks as detailed below.

Standard Length Track – Spring Tension System



1. Remove the mounting flange from the label side of the track.
2. Release the belt tension. Notice the tensioning spring is compressed by a captured nut. Turn the tensioning screws *counterclockwise* until all the spring tension is released and both nuts are resting against the housing shoulder. The tensioning screws do not need to be fully removed - leave them in place.



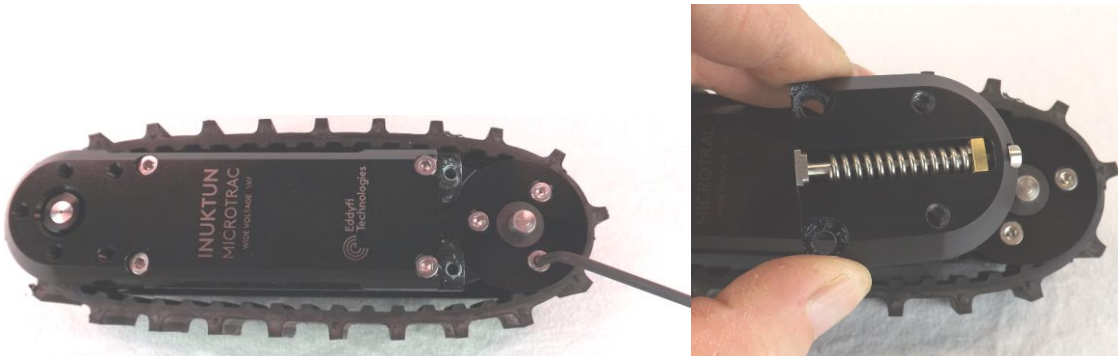
3. Remove the front side plate as shown, exposing the three screws on the front idler wheel. Remove the three screws and the idler wheel flange.



4. The belt can now be lifted from the track. The track is ready for cleaning or installation of a new belt.



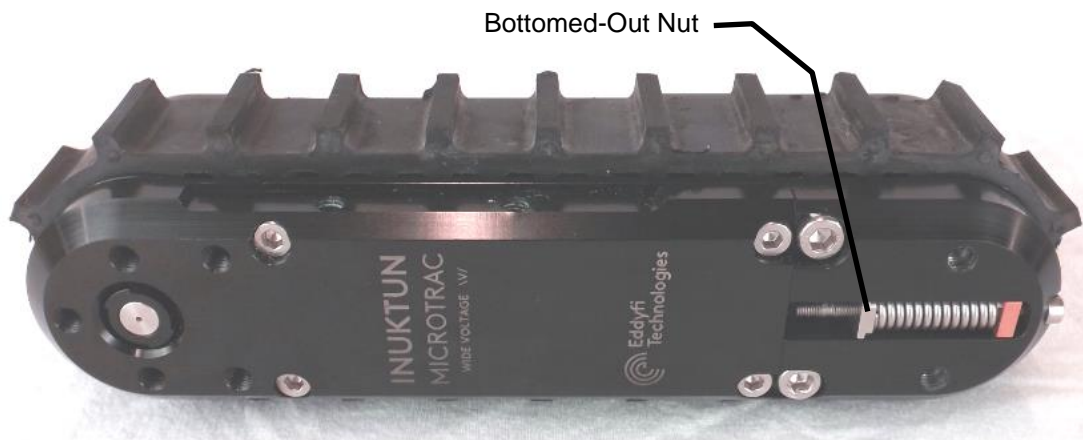
5. When replacing the belt ensure the drive wheel lugs are engaged with the belt before slipping the belt back over the idler wheel.



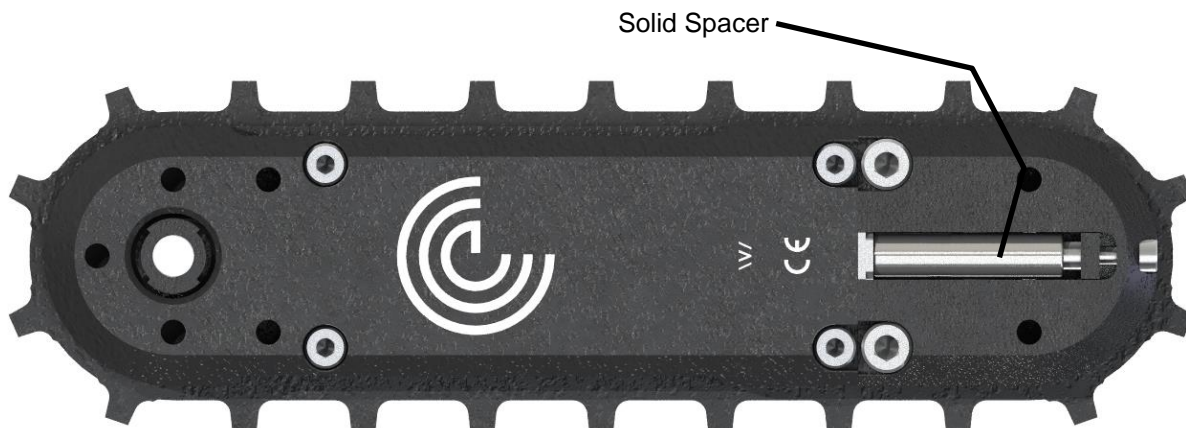
6. Replace the idler wheel flange and side plate.



7. Tension the belt by turning the tensioning screws *clockwise until the captured nuts bottom out in their groove*. They will be in position as shown below. Again – the tensioning screws stay in place.



Standard Length Track– Manual Tension System



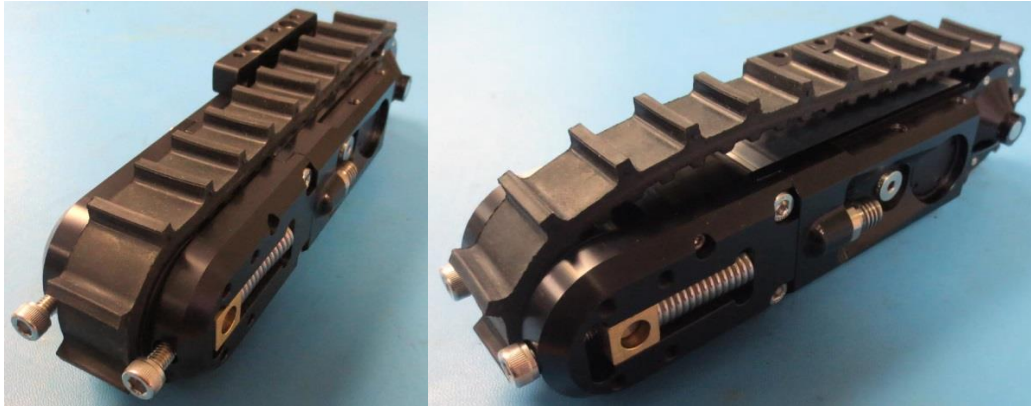
To manually tension the belt:

1. In a manually tensioned standard-length track the tensioning spring is replaced by a solid spacer. Removal and installation of the track belt is the same procedure as outlined above for the spring tension system except the track belt is tensioned manually as per below.
2. To tension the belts, turn the tensioning screws evenly clockwise until the belt has a light tension. The idler wheel will bind if the screws are not turned evenly.
3. Check the belt tension by raising the belt near the center of the track with your thumb. The proper gap is approximately ¼-inch (6mm) between the inside belt teeth and the track skid plate, on both sides of the track.
4. Verify alignment of track belt by running the track forward and reverse at full speed and observing the position of the track belt between the side plates as it turns over the front idler wheel. The belt should appear to run in the center between the flanges.
5. Individually adjust tension screws to fine tune the belt tracking.
6. Re-check the tension after alignment.

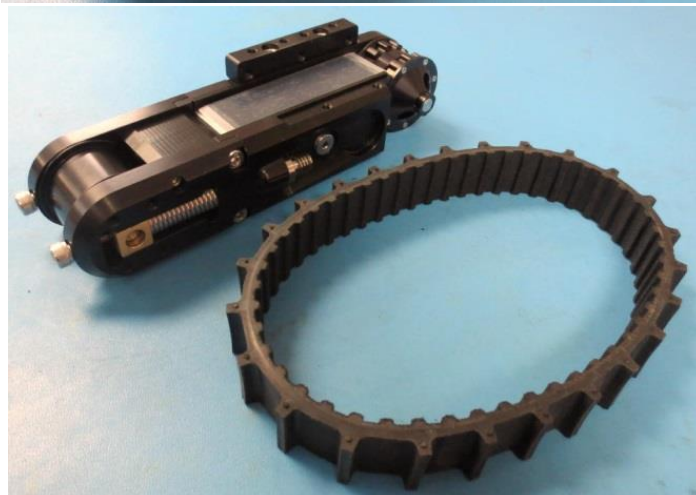
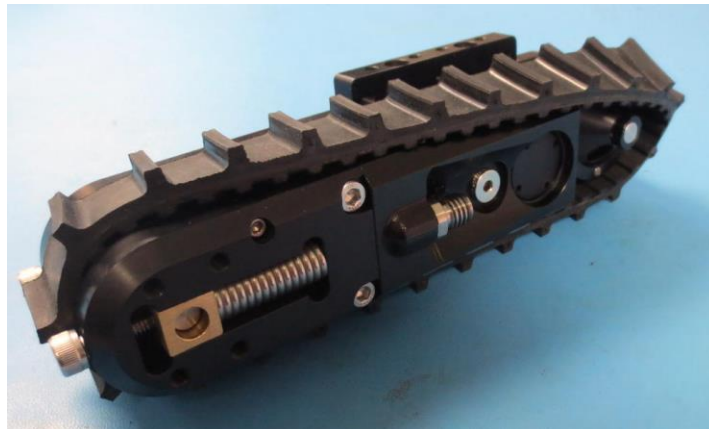
Extended Length Track – Spring Tension System



1. To remove the track belt, remove the drive wheel cover and mounting flange as illustrated above. The opposite mounting flange can remain in place.

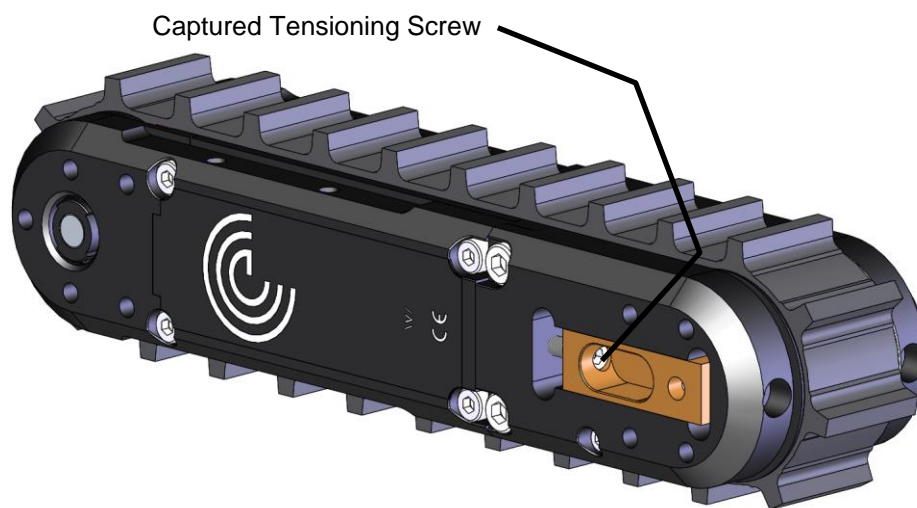


2. Compress the tensioning springs using M6 x 16 or longer jack screws. (The jack screws are fully removed from the track when the belt is replaced.)



3. Pull the belt off the track from the rear wheel first. The track is now ready for cleaning or installation of a new belt.
4. When the belt has been reinstalled on the track, simply remove the jack screws from the track and the springs will automatically tension the belt.

Extended Length Track– Manual Tensioning System



1. When manually tensioned, the extended length track uses a captured screw to hold belt tension in place of the springs.
2. To loosen the belt, turn the screws evenly clockwise. To tension the belt, turn the screws evenly counterclockwise.
3. Removal and installation of the track belt is the same procedure as outlined above for the spring tension system except the tensioning screws are turned fully clockwise to loosen the belt. There are no jack screws. When reinstalling the belt, tensioning is done manually as per below.
4. To tension the belts, turn the tensioning screws evenly *counterclockwise* until the belt has a light tension. The idler wheel will bind if the screws are not turned evenly.
5. Check the belt tension by raising the belt near the center of the track with your thumb. The proper gap is approximately ¼-inch (6mm) between the inside belt teeth and the track skid plate, on both sides of the track.
6. Verify alignment of track belt by running the track forward and reverse at full speed and observing the position of the track belt between the side plates as it turns over the front idler wheel. The belt should appear to run in the center between the flanges.
7. Individually adjust tension screws to fine tune the belt tracking.
8. Re-check the tension after alignment.

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Maintenance

Rinsing and Cleaning

After every mission check to see if the tracks need cleaning. To maintain top performance of the Microtrac™ units, it is important to prevent excessive buildup of dirt under the track belt. A buildup will increase the belt tension, causing the track to lose speed and pulling ability. Ultimately excessive tension may stretch and ruin the track belt.

1. If the tracks have been used in salt water, thoroughly rinse the tracks with fresh water prior to being stored away. Accelerated corrosion will result if the inspection system is not rinsed properly. Pay close attention to rinsing and cleaning the spring and underneath the track belt.
2. Use an open hose or tap at regular water line pressure for rinsing – use a mild detergent and soft brush. Do not pressure wash the equipment – water will be forced into the track at these high pressures.

If it is necessary to apply aggressive cleaning fluids, consult the factory before use. Clean away any dirt, grit or build-up near joints or moving parts. Also clean the drive wheel teeth, wear strip and idler wheels.



CAUTION: Do not use a pressure washer to clean the track. Very high-pressure water can push past seals and flood the components resulting in electrical damage or personal injuries.

Scheduled Maintenance and Servicing

Microtrac crawlers are designed to provide reliable service accompanied by a minimum downtime for maintenance. The frequency of maintenance and/or repairs will be largely dictated by the type of use and the environments the units are subjected to. Eddyfi Technologies recommends the following maintenance procedures in addition to normal equipment operational inspections.

Daily

Daily or before each use of the Microtrac units:

1. *Tracks with Spring Tensioners* - Check that the belt tensioning springs are freely moving. This can be done by pulling up on the edge of the track belt with your thumb – the belt should have a small amount of give. If the springs are bottomed out, the material under the belt must be removed before deployment to avoid damage and to attain best performance.

Tracks with Manual Belt Tensioners – Check that the tensioning screws have not slackened. Belt tension should be firm but manual deflection with normal hand force should be possible. If the belts feel too tight, check for debris or build-up underneath the belts and remove if present. Do not over-tighten belts or performance could be degraded, and damage could occur.

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2. Visually inspect the Microtrac and track belt for damage; if the track belt is torn or stretched it should be replaced.
3. Ensure that all fasteners are in place and secure.

Weekly

1. *Tracks with Spring Tensioners* - In addition to the daily check, examine the condition of the tension springs at least once per week. Worn or corroded springs may weaken and cause low belt tension and idler wheel misalignment.
2. Verify by visual inspection that there are no traces of grease near or on the sides of the drive wheel and the track belt. This would indicate that the grease seals may have been damaged by debris or have become worn by abrasion.
3. If necessary, remove the belt and thoroughly clean the track.

Overhaul

Eddyfi Technologies recommends that the Microtracs™ be thoroughly serviced once a year or after 600 hours of operation. This includes complete disassembly, cleaning and inspection of the Microtrac components with focus on the drivetrain, bearings, output shaft and seals. At this time the track is re-lubricated.

For extended service and maximum reliability of your Microtracs, Eddyfi Technologies offers a factory overhaul. The factory overhaul constitutes an investment by the equipment owner in preventative maintenance. As such, the overhaul should be considered discretionary. In the overhaul, the track unit is completely disassembled. All internal components including the motor, driver, bevel gears, bearings, and seals are inspected and replaced where necessary.

Parts and Repairs

Ordering Parts/Customer Service

Spare and/or replacement parts are available for your product and can be ordered directly from your local office.

When ordering parts always make sure to quote the sales order acknowledgement (SOA) number and/or the serial number of the system component in question.

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Warranty Repairs

Warranty conditions are specified in the Warranty section. Should any conditions of the manufacturer's warranty be breached, the warranty may be considered void. All returned items must be sent prepaid to Eddyfi Technologies at the above address.

Factory Returns to Canada

Some sub-assemblies of your Eddyfi Technologies product are not field-serviceable and may need to return to the factory for repair. Warranty claims must return to the factory for evaluation.

To return an item for evaluation or repair, first contact Eddyfi Technologies at our toll-free number or e-mail address. Eddyfi Technologies will supply a Return Merchandise Authorization (RMA) number with detailed shipping and customs instructions. Items shipped without an RMA number will be held at Eddyfi Technologies until the correct paperwork is completed. If cross-border shipments are not labelled as per the instructions, the items may be held by customs and issued additional fees.

All returned items must be sent prepaid unless other specific arrangements have been made.

When the product or system is being shipped anywhere by courier or shipping company, it must be packaged in the original packaging it was received in. This measure greatly reduces the consequences of rough handling and subsequent shipping damage.

Eddyfi Technologies cannot be held responsible for damages due to improper packaging. Shipping damage may have significant impact on repair turnaround times.

Product/System Drawing Package Availability

Mechanical assembly and electrical wiring diagram drawing packages for your equipment are available in PDF format upon request. Printed copies may also be purchased from Eddyfi Technologies. Contact your local sales contact for more information.

Limited Warranty Policy

Refer the Eddyfi Technologies website for warranty terms for this product.

<https://www.eddyfi.com/en/salesterms>

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