

INSTALLATION INSTRUCTIONS

PowerTrak for On-Edge Applicaton





POWERTRAK INSTALLATION INSTRUCTIONS
Application for On-Edge Operation

1. Inspect the Packing Slip and verify the identity and quantity of items received with the Sales Order Acknowledgement.
2. Remove the Powertrak Drag Chain (Trak) from the shipping container/crate. Customer order specifications would determine method of shipping and handling employed.
3. Position the Trak sections at the staging or final installation site per the enclosed General Arrangement/Dimensional drawings indentified with a part number derived from the Gleason Reel Sales Order number appearing on the Acknowledgement. The drawing should indicate proper orientation and mounting dimensions.
4. The Trak sections will be setting on-edge (ie: sidechains above and below the carrier compartment) supported by rollers or plastic glide discs. Check to be certain all sections will pivot in the proper direction. The smaller size Traks will not be stable setting on-edge in short sections and may necessitate laying them on the floor with the flexing direction upwards.
5. Splice the Trak sections together with the pivot/connection fasteners supplied. The Trak joints will assemble like a tongue-and-groove arrangement with the link plates having kidney-shaped slots clevised between the outermost link plates and plastic friction discs between their surfaces. Refer to other sidechain joints to insure proper component arrangement. Installing the center pivot fastener position first on each sidechain is recommended. Then pivot the trak slightly in the proper direction and install the remaining outer connecting fasteners. Seating torque recommendations are shown on the Parts List (Assembly Dwg).
6. Install the cables/hoses as required; for two or more layers, install the layer nearest the floor first, working upward. The mounting brackets at the fixed and movable ends may be secured at this time to stabilize the Trak and facilitate cable/hose installation (refer to step #8). Smaller size Traks and certain carrier styles will require installation of the cables/ hoses while laying on the floor for best stability. After installation is complete, The Trak is positioned flexed so that half the length is resting above the lower half

(end mounting brackets aligned) and then manually tipped on-edge with the glide discs or rollers on the floor. The Trak should be handled at 15Ft (5M) increments to prevent any damage.

7. The cables/hoses must be fed through the entire length of Trak when carrier options are welded channel or solid machined bar. These will require the end connectors or fittings to pass through the compartment opening or attached after the cables/hoses are installed in the Trak. Heavy Duty Traks and long travel applications will usually have bolted carrier components for easy access to the compartment. Cables/hoses are easily set into their corresponding compartments to permit the end connectors/fittings to be attached prior to installation. Special carrier styles may include plastic or metal sleeves/rollers which are retained on rods/shafts when installed. Take care not to lose or damage these sleeves and other carrier components during installation of the cables/hoses. Check to be certain sufficient length of cable/hose is extended beyond the ends of the Trak for connection to a junction box, manifold, etc. Seating torque recommendations are shown on the Parts List (Assembly Dwg).
8. The cables/hoses must not be twisted and free of kinks or knots. Multiple conductor cables with internal twists, kinks, or soldered/mechanical splices may lead to premature failure. A good quality, highly flexible cable/hose is recommended for dynamic flexing applications in Powertrak Drag Chains. Application of a cable/hose jacket lubricant will reduce friction and improve wear rate during Trak operation; consult your cable/hose supplier for recommendations. Trak carrier styles using plastic or metal sleeves/rollers to support cables/hoses will not require a jacket lubricant.
9. Secure the fixed and movable end mounting brackets with SAE Grade 5 (ISO Cl.8.8) fasteners having an appropriate finish for the application environment. Stainless steel fastener material shall conform to ASTM F593 cold worked (ISO Cl.70).
10. The cables/hoses must be adjusted to prevent kinking and premature wear. They must lay within the Trak carrier compartment, particularly through the Trak loop (curve) section, in a relaxed condition and follow a straight path from the moving end to the fixed end. Do not pull cables/hoses tightly against the carriers through the Trak loop; allow clearance all around.
11. Secure all cables/hoses at both ends of the Trak, adjacent to the mounting brackets, to prevent any relative movement. This will prevent development of conductor tension or knotting

(bunching) during Trak operation.

12. Complete all cable/hose terminations at the fixed and movable ends of the Trak.

!!! WARNING !!!
Electrical Shock Hazard!
Disconnect Power Supply!

13. Reconnect the power supply after completion and inspection of all cable/hose terminations. Operate the machine and Powertrak Drag Chain slowly throughout the entire travel stroke. The Trak must be parallel with the travel motion of the machine. A continuous metal guide/support tray is required beneath all areas of Trak movement. Refer to the General Arrangement drawings and Sales Order Acknowledgement for specifications and system requirements.
14. Visually observe Trak operation for abnormal movement indicating tight or binding pivot joints, obstructions within the guide/support tray and cable/hose tension or knotting. These problems must be corrected to assure reliability and longevity for the entire Powertrak system.
15. Please contact your nearest Gleason Reel representative for any problems or questions.



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