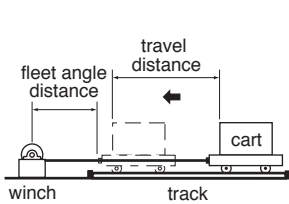


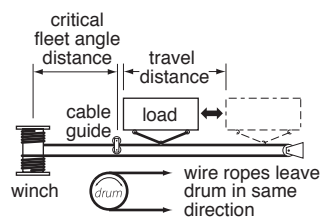
Typical Rigging Layouts for Pulling Applications



Floor Mounted

Pulling Cart on Wheels

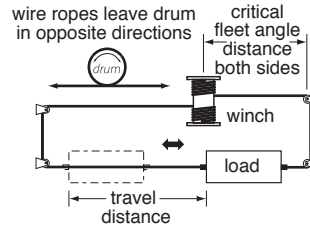
- Cart is pulled in one direction, toward winch.
- Manual clutch allows drum to be disengaged for rapid load hook-up.
- Cart is guided by tracks or rails to maintain fleet angle.



Mounted In-Line

Single Drum Closed Loop

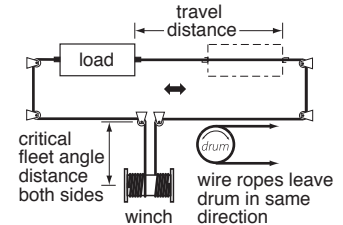
- Cars can be moved in both directions.
- Both ends of the wire rope are anchored to the same drum.
- Spring sheave maintains tension in wire rope.



Mounted Off-Side

Single Drum Closed Loop

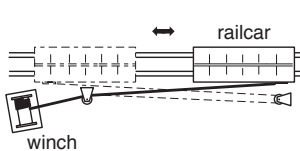
- Cars can be moved in both directions.
- Both ends of the wire rope are anchored to the same drum.
- Spring sheaves maintain tension in wire rope.



Mounted Off-Side

Single Drum Closed Loop

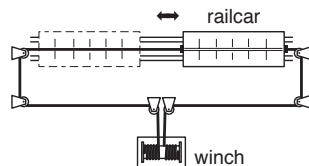
- Cars can be moved in both directions.
- Both ends of the wire rope are anchored to the same drum.
- Spring sheaves maintain tension in wire rope.



Mounted In-Line

Single Line Pulling Rail Cars

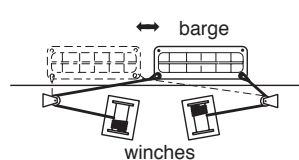
- Rail cars are pulled toward winch, or rope is passed around sheave to reverse direction.
- Manual clutch allows drum to be disengaged for rapid load hook-up.



Mounted Off-Side

Closed Loop Pulling Rail Cars

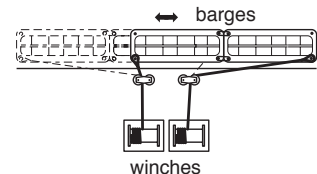
- Cars can be moved in both directions.
- Both ends of the wire rope are anchored to the same drum.
- Spring sheaves maintain tension in wire rope.



Mounted Off-Side

Dual Winch Barge Positioning

- Controls operate each winch individually or both of them together.
- Brake Motors maintain tension in line to limit drift and deliver quick and accurate positioning.



Mounted Off-Side

Dual Winch Barge Positioning

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- Brake Motors maintain tension in line to limit drift and deliver quick and accurate positioning.