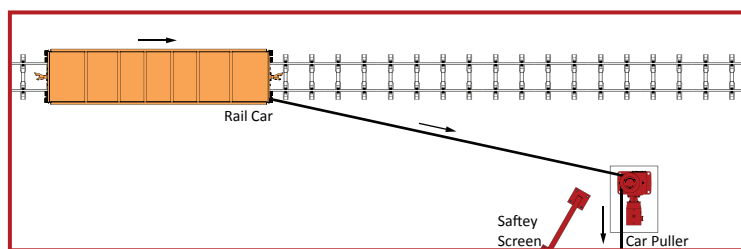
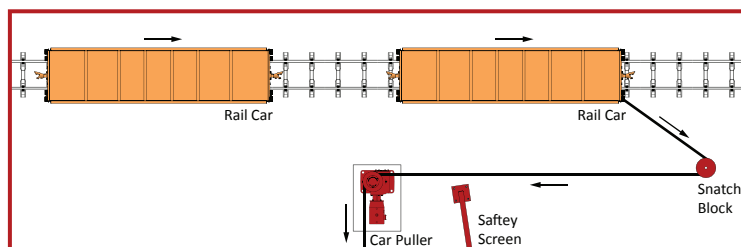


CAPSTAN CARPULLER LAYOUTS



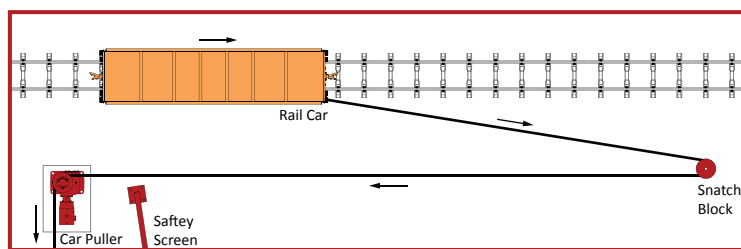
ONE-WAY CAR MOVEMENT

Car can only be pulled to *car puller*, not beyond, nor can car be pulled back to original position.



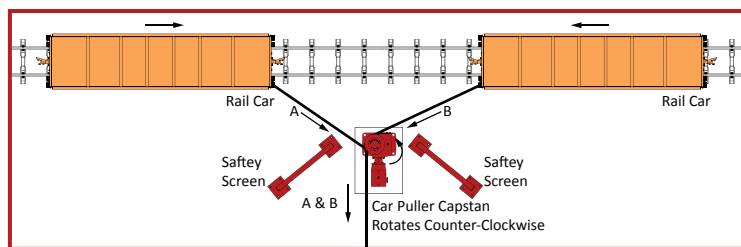
ONE-WAY OR TWO-WAY CAR MOVEMENT

This layout permits one continuous movement in either direction using only a snatch block. Rope length needed here is twice the distance between car puller and sheave.



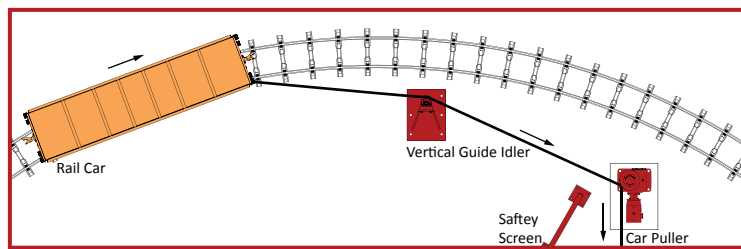
ONE-WAY OR TWO-WAY CAR MOVEMENT

This layout is a good option when more than one freight car has to be moved to a loading point, and then moved forward to permit the next car to be brought up. Snatch Block must be located at extremities of car travel for two-way action.



ONE-WAY MOVEMENT TOWARDS CENTRALLY-LOCATED CAR PULLER

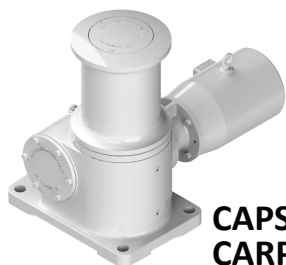
Hooking point on rope can be brought to within 15 feet of capstan from either direction. The movement illustrated does not require a reversing starter. Note which side of the capstan spool the rope comes off (See A & B references in drawing). Adding a snatch block would permit the worker to return the car to its starting point, provided the rope is sufficient in length.



ONE-WAY CAR MOVEMENT ON CURVED TRACK

One or more Vertical Guide Idlers permit pulling around curves. Idlers keep the rope as much in-line with curved track as possible to reduce loss of pulling power due to extreme angles. Idlers are also used to route rope around obstructions in its path.

PRODUCTS SHOWN ABOVE



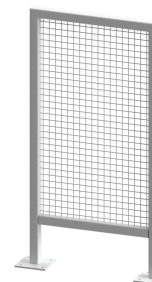
**CAPSTAN
CARPULLER**



**SNATCH
BLOCK**



**VERTICAL
GUIDE IDLER**



**SAFETY
SCREEN**

Product details and specifications are subject to change without notice. This catalog and all its contents is for informational purposes only. Every train yard will vary, please contact for assistance. 314-965-3339