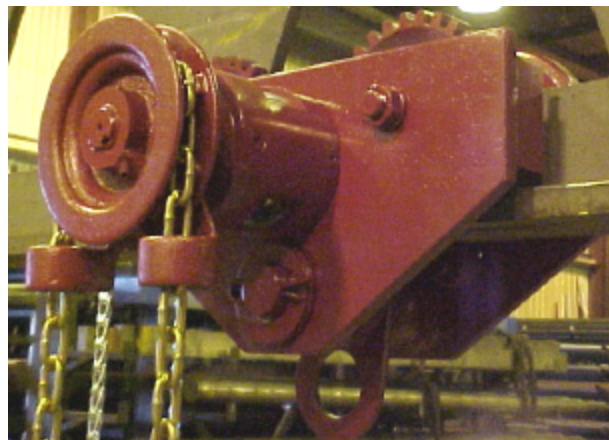


Case Study... Special Trolley

“CHESTER” Develops geared trolley That free wheels on beam!!!



- Hand chain driven
- All of the benefits of a plain trolley
- All in a compact 1 ton capacity

Our customer required this special trolley for use in the aircraft industry.

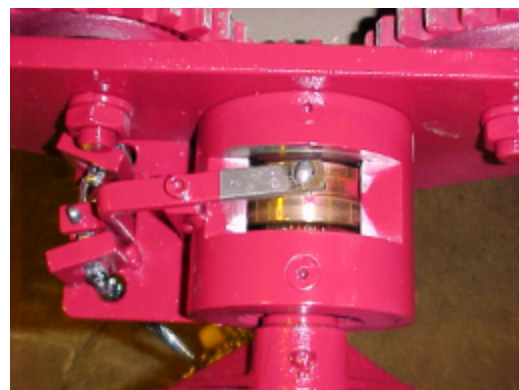
The unit must travel approximately 250 feet in the loaded condition, and return for another load. The request was the return trip is made by pushing the trolley along the beam with the hand wheel disengaged from the trolley drive. With the hand wheel disengaged, the trolley could easily and swiftly be returned to the loading area.

To accomplish this free wheeling condition, the trolley drive shaft was split into 2 pieces. The end of each shaft was splined. A sliding coupling was then manufactured to ride disengaged on one shaft. Sliding the coupling over the second shaft provides a lockup condition to allow the hand wheel to drive the wheels.

A detent ball is used to maintain the selected position of the coupling, preventing unwanted engaging or disengaging.

The trolley mechanism drive runs on a combination of ball bearings and oil impregnated bushings for long service life.

A shift linkage controlled by a hand chain is used to control the position of the coupling. Pulling the chain in either direction allows the drive to be engaged or disengaged. A detent ball is used to maintain the selected position of the coupling, preventing unwanted engaging or disengaging.



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