# Manual push-pull overhead conveyor

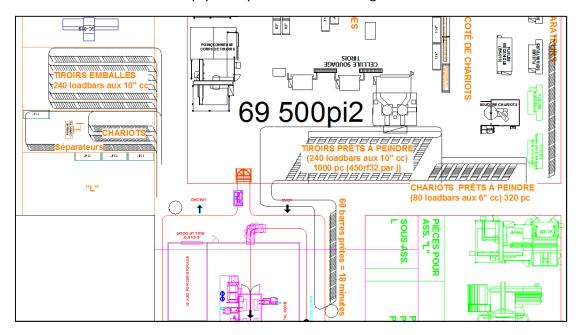
I am currently designing an overhead conveyor to transport and accumulate parts between fabrication and powder coating, and then from powder coating to assembly lines.

# My goals with this request are:

- 1- Find a supplier for manual push-pull trolleys and enclosed track
  - a. Trolleys length evaluated: 6" ideally (6" with bumpers extensions to 10" would be ideal.)
  - b. Capacity required: 300 lbs/trolley
- 2- Gather information on their options
  - a. Stops Switches Anti back-up devices
  - b. Turn sections
  - c. Auto routing from inline to 60° bank
- 3- Gather information on their automation capabilities
  - a. Possible to add automation on some sections: motorize some FIFO banks
  - b. Our goal would be to add automation by phases
- 4- Get budgetary prices for components

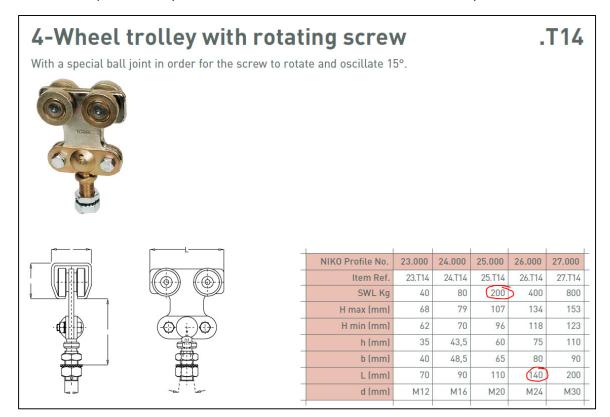
## System information (preliminary)

- 1- 820 loadbars: 420 before powder coating process, 420 after
- 2- 1640 trolleys in system (2000 trolleys for budgetary evaluation)
- 3- 2400 feet of enclosed track
- 4- ±60 diverter switches (from straight to 60°)
- 5- ±60 escapement (merging) switches
- 6- Multiple Horizontal curves (monoplane system)
- 7- ±4 Vertical curves for empty trolley accumulation on higher level.



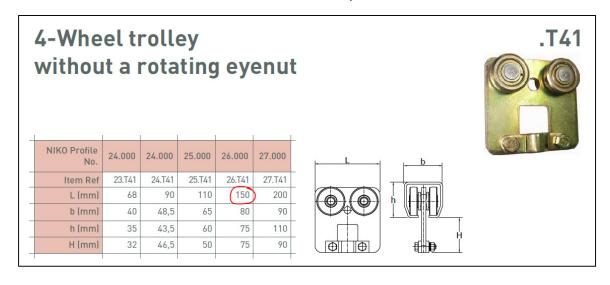
#### Model T14:

- Interesting trolley if the ball joint rotates freely under load
- No bumper for accumulation...
- The #26 profile trolley is 134 inches long (little short) but oversized with 400 kg capacity
- The #24 profile trolley would be better for load but is too short with only 110 mm



## Model T41

- Interesting model because I can put my own bearing for the swivel attachment
- The #26 profile trolley has 150 mm long which is good
- I assume the capacity is the same as trolley T14 (400 kg)?
- I don't have the diameter of the vertical hole for my attachment...???



# Model T48

- Interesting model because of the bumpers to accumulate parts
- The #26 profile trolley has 152 mm long which is good

