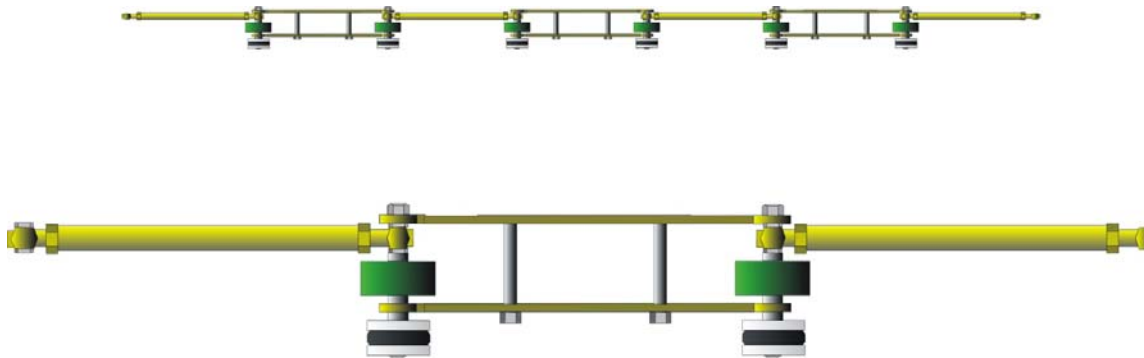


## Gorilla Chain



### Gorilla Chain:

Mantissa's Gorilla Chain is the ideal solution when retrofitting an older tilt-tray sortation system. Our experience has shown that chain stretch is the leading cause of package tracking irregularities and missorts. Now, with the Gorilla Chain, the problem of chain stretch is no longer an issue.

The Gorilla Chain is a modular unit consisting of drive links and adjusting links. The drive links provide the forward motion of the sorter carriages while the adjusting links allow the Gorilla Chain to be used on both mono-planar and bi-planar sortation systems. Using sealed bearings and Teflon rod ends, the Gorilla Chain is nearly maintenance free. Mantissa's Gorilla Chain is easily retrofittable on legacy tilt tray sortation systems (Logan Co., IDAB, Speaker Sortation, Kosan).

### How It Works:

The Gorilla Chain works in conjunction with Mantissa's Spiral Drive to move a tilt-tray sorter's carriages around the sorter track. The drive link has two horizontal guide wheels and two or four drive wheels. The drive wheels provide the forward motion of the sorter by engaging the flutes of the Spiral Drive unit. As the worm gear spins, the drive wheels enter the Spiral Drive unit where the flutes of the worm gear gently contact the drive wheels. The drive wheels roll along the face of the flutes pulling the chain through the drive unit. The horizontal guide wheels ride along the inside walls of the sorter track keeping the sorter carriages in the center of the sorter track and preventing the chain from contacting the track walls.

The adjuster links provide a flexible connection between the drive links. This is accomplished by the use of Teflon rod ends which allows the Gorilla Chain to be used on both mono-planar and bi-planar systems. The adjuster link also provides a way to vary the tray centers to precisely match the sorter specifications.

Carriages are connected to the drive links using shear bolts. Mantissa designed this connection to provide a shear point to release a carriage that may have become caught and unable to move. By allowing the bolt to shear and release the carriage, catastrophic damage to the sorter and carriages can be minimized.

## Gorilla Chain

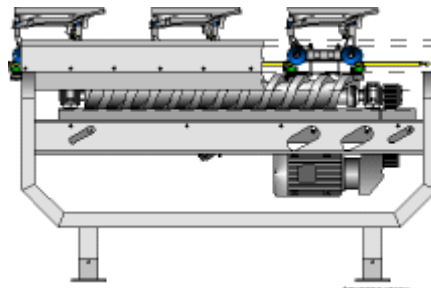
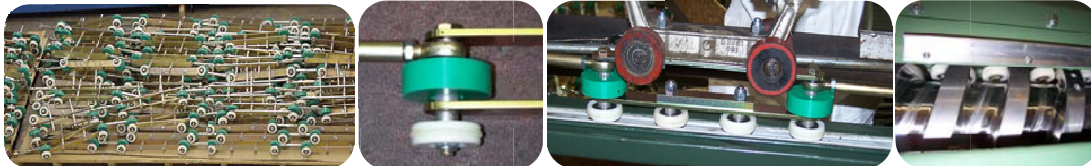
### Benefits:

- Retrofittable on legacy tilt tray sortation systems (Logan Co., IDAB, Speaker Sortation, Kosan)
- Works on both mono-planar and bi-planar systems
- Wheels have sealed ABEC 1 precision, lubed for life bearings
- No lubrication required (no mess, reduces fire hazard)
- No routine take-up required
- Low Maintenance
- Smooth quiet operation

### Applications:

- Retail Distribution and Mail Order Distribution Warehouses
- Postal Facilities (i.e. USPS)
- Parcel Handling Systems
- Newspaper and Mailroom Distribution Systems
- Manufacturing Facilities

PITCH OF FLUTES	POSSIBLE TRAY CENTERS
8" .20 m	24", 28", 32", 36", 44", 48" .61 m, .71 m, .81 m, .91 m, 1.12 m, 1.22m
9" .23 m	22½", 27", 31½" .57 m, .68 m, .80 m
10" .25 m	25", 30", 35", 40", 45" .63 m, .76 m, .89 m, 1.02 m, 1.14 m



Sortation *Simplified*™