

## REEL TRANSPORT SYSTEM

With the corrugated equipment currently on the market, it is quite common to find factories capable of running up to 300 mpm (1000 fpm). Recently, we have seen many plants with equipment capable of running 300-400 mpm, but their average production speed rarely exceeds 150 mpm (500 fpm)!

Handling short run orders, a market trend, creates a new bottleneck for our customers - managing reel loading and unloading.

The automatic reel transport process starts from a defined point in the customer's warehouse (generally close to the corrugated line). The movement of the reels, controlled by customer's planning system, is achieved through the **TorresCAR**, a delivery mechanism that moves over rails embedded into the floor.

- Small footprint
- No additional safety fencing
- Open floor: clutter reduced

- Reduces cycle time
- Enables production speed of 300 mpm/1000 fpm
- Enables short length production runs



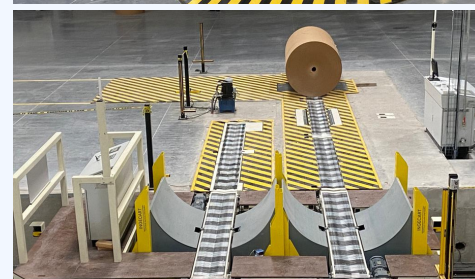
MTorres offers a **Reel Transport System**, where reels can be delivered in **less than 50 seconds**, depending on the factory layout and process. Our system enables customers to achieve much higher average production speeds.



With the Reel Transport System, our customers not only **increase their production speed**, but they also **eliminate forklifts in work areas**, providing greater safety for the entire installation, which is becoming increasingly important.



- No forklift/operator interaction
- Avoids traffic from outside our system
- No uncontrolled personnel traffic



The **Reel Transport System** has **three operational modes**:

### FULLY AUTOMATIC

The operator identifies the reel by reading the label and allows it to be deposited on the delivery route. The TorresCAR knows the destination because of the interface that links the information of the TorresCAR to the customer's programming system.

### SEMI AUTOMATIC

The operator decides the reel's destination. The interface does not need to check on the customer's production planning system.

### MANUAL

Since it is a system mounted at ground level, in case of emergency, power failure or total system failure, it is possible to feed and remove the reels manually with the conventional forklift system.

These operating modes provide added versatility, matching the dynamic production environment found in today's facilities. The Fully Automatic mode provides improved reel management and control over the process with the customer's production planning system, or with an open source such as Microsoft.