Technical Spec Sheet

The Transporter

The Transporter Quickly Carries Food from the Kitchen to POS

The Transporter is a proven, high performance and reliable food conveying system. The system has been installed in over 500 restaurants globally and provides customers with a cost effective and trouble free way to increase sales and profitability.

Features and Benefits

- Rapidly (within seconds) moves food in an efficient and hygienic manner without any intrusion into a busy workplace
- The system is modular and can be customized to fit any facility or design
- Can be retrofitted into existing restaurants with little or no modification to the existing building.
- Manufactured with lightweight track and cars with no special support structure required
- Has special clips to carry products securely and automatically release them at the unload point.

Utilize your Competitive Advantage

The Transporter provides restaurants with three distinct competitive advantages;

- **Enables Real Estate Accessibility** by allowing the flexible design of layouts for any situation.
- **Enhances Customer Experiences** using street level kiosks or drive thrus to provide fast and convenient service.
- **Extends Business Opportunities** by allowing you to develop restaurants in crowded cities with expensive real estate and limited land.

The Transporter Applications

The Transporter can deliver food from the kitchen to the point of customer service, enabling restaurants with the flexibility to increase their service volume with:

- Additional drive thru lanes
- Street level kiosks or multiple service counters for easier access to customers
- Dining areas that are expanded or relocated to accommodate space requirements
- Kitchens that can be relocated to other floors or basements

How it Works

The Transporter is a continuous loop overhead conveyor system that runs at high speed, designed specifically for carrying food from a load point to a remote unload point in a quick serve restaurant.

The system can be customized to suit the unique requirements of each project and it can be configured to move your product in any direction, horizontally or vertically. The system can move around corners, between floors, around obstructions, over drive though lanes and through walls. The track system is typically suspended under the ceiling, or sometimes can be run in enclosures above the ceiling. Food is carried in bags from a loading point to a delivery point where it is automatically unloaded from the system.

Technical Specs: The Transporter

www.easi-serv.com
Route Design

The Transporter consists of a single continuous aluminum track made up into a closed loop that contains an endless “train” of small wheel cars connected together. The track is normally suspended from the ceiling or wall and can be made to snake through the building from a loading point to an unloading point and back again.

It has small radius for horizontal and vertical bends to allow the route to move through tight spaces. The track can run horizontally in a straight line and around corners; in a straight line on a 45 degree incline; and in a straight line in a vertical direction.

The Transporter can pass over kitchens, over dining rooms, through walls, between floors, and over drive-thru lanes to kiosks.

The significant advantage of the Transporter is that it is not limited to a straight line between two points (like a normal conveyor belt) and it does not take up valuable floor space.

The actual track layout is made up of standard horizontal and vertical corners; and straight sections of track that are cut to length. All the corners and the straight track pieces are then connected together on-site during installation.

The continuous train of lightweight cars in the Transporter System is pulled around by an electric drive system that uses an AC motor with a direct drive sprocket that engages with teeth incorporated into the top of the cars. The Transporter is equipped with a solid state AC control system with logic for automatically stopping the system after the last bag has been unloaded. The variable speed control system also provides smooth acceleration and deceleration of the system to avoid jerky movements.
Operation

The Transporter is an "on-demand" system. In other words, the system only works when there is product that needs to be carried from the load point to the offload point. When the restaurant is busy, the system does not need to complete the delivery of the first load before carrying the second load. The crew person can simply press the "load" button again when the system is still running, which slows the system down for a few seconds to enable the crew person to load the next bag into a product clip. As soon as the bag is loaded, the system accelerates back to full speed and continues to deliver the product. The system will keep running as long as bags are being consecutively loaded onto the system, and will only stop after the last bag is offloaded.

The time to carry a bag from loading to offloading will vary depending on the length of the system and the complexity of the route. The system normally runs at speeds ranging from 5 feet per second to 8 feet per second. Systems that have few corners tend to run at faster speeds than systems that have lots of corners.

Food on the Go

The Transporter carries products in bags that are held on to the system by special Product Clips. The clips are attached to cars in the system and are equally spaced approximately 7 to 10 ft apart (2 to 3m) along the track.

Bags can be easily pushed into the clip. Once in the clip, the bags are held in place very securely. If you try to pull the bag out of the clip actually increases. This design ensures that the bags will not fall out of the clips during transportation.

To release the bag from the clip, a lever arm is activated at the unloading point which releases the clip and the food is placed into the holding tray.
## Transporter Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Country of Manufacture</strong></td>
<td>Canada</td>
</tr>
<tr>
<td><strong>Tracks &amp; Cars</strong></td>
<td></td>
</tr>
<tr>
<td>Track</td>
<td>Aluminum Extrusion, weight 1.5lbs/ft (2.25kg/m)</td>
</tr>
<tr>
<td>Cars</td>
<td>Injection moulded plastic</td>
</tr>
<tr>
<td>Linear run (load to unload)</td>
<td>40ft - 150ft (12.5m - 45m)</td>
</tr>
<tr>
<td>Average number of cars</td>
<td>250 - 900 cars</td>
</tr>
<tr>
<td>Average number of product clips</td>
<td>10 - 30</td>
</tr>
<tr>
<td><strong>Drive system</strong></td>
<td></td>
</tr>
<tr>
<td>Motors</td>
<td>230v AC Gearhead Drive Motor</td>
</tr>
<tr>
<td>Motor speed</td>
<td>110 RPM</td>
</tr>
<tr>
<td>Horsepower</td>
<td>Single 1/4hp motor for systems with less than 350 cars</td>
</tr>
<tr>
<td></td>
<td>Twin 1/4hp motors for systems with more than 350 cars</td>
</tr>
<tr>
<td>Max System speed</td>
<td>8 ft/sec (2.4 m/s)</td>
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<tr>
<td>Control system</td>
<td>Solid state AC motor speed control</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>115/230 Volt single phase 50/60hz</td>
</tr>
<tr>
<td>Maximum load current</td>
<td>3 amp</td>
</tr>
<tr>
<td>Average load current</td>
<td>2 amp</td>
</tr>
<tr>
<td>Overload protection</td>
<td>Current sensing with programmable time delay with manual reset</td>
</tr>
<tr>
<td><strong>Transporter Experience</strong></td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>Over 1,000 kitchen products / hour</td>
</tr>
<tr>
<td>Product Delivery Time</td>
<td>15-20 seconds (depends on system length and configuration)</td>
</tr>
<tr>
<td>Number of Transporter System Installations</td>
<td>Over 500</td>
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<tr>
<td><strong>Warranty</strong></td>
<td></td>
</tr>
<tr>
<td>Warranty Length</td>
<td>2 Years</td>
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### Installation and Maintenance

The system is designed for easy installation, trouble-free operation and minimal maintenance requirements.

- Modular track components ensure quick, trouble-free, onsite installations.
- Track is designed for easy installation and connection without the need for special brackets or welding.
- Cars and wheels are made from a high performance plastic with built-in lubricating properties, which means the system requires no further lubrication during operation or for maintenance.
- Modular design of system ensures that maintenance is simple and repairs can be performed quickly to minimize downtime.
- Regular maintenance requires simple inspections for dirt build-up, car and track wear and tear and motor draw (amperage).

### 2 Year Warranty

The Transporter is covered by Easi-Serv’s 2 Year Limited Warranty which covers all components from the first day of installation.

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**Head Office**

**Sales**

Unit 302, Building D  
6741 Cariboo Road  
Burnaby, B.C.  
Canada V3N 4A3

Tel: +1.604.422.8611  
Fax: +1.604.422.8376  
Toll Free: 1.888.591.0106  
sales@easi-serv.com

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Our accessible, dependable and helpful sales team is available to answer any questions or to provide you a customized quote.

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