



Shipment Planning Module

With more than a quarter-of-a-century of industry experience built in, CTI's Shipment Planning module is the most robust, flexible, and complete solution for companies in the packaging industry.

Shipment Planning that Delivers Results

Available as part of the complete CTI suite of manufacturing solutions—or as a standalone module—CTI's Shipment Planning module helps you increase production, improve customer service, and reduce costs—while at the same time reducing your plant's carbon footprint.

Business Benefits

- Increases profits
- Reduces fuel and freight costs
- Increases productivity
- Maximizes trailer utilization
- Increases on-time deliveries
- Improves customer satisfaction
- Provides complete visibility
- Improves dock operations
- Reduces trailer pool and fleet sizes
- Increases driver productivity

Intuitive interface gives schedulers complete visibility of immediate and future shipping requirements

The screenshot displays the CTI Shipment Planning v20.2.1.802 interface. The main window is titled 'Trailer and Orders' and contains a table with the following data:

Trailer ID	Customers	Shipment Status	Trailer Volume (cft)	Zone Code	Loading Area	Sched. Area (MSF)	Sched. Utilization (% By Vol)	Sched. Volume (cft)
SDSouth # 1	San Diego24	Ready	3,267	SDSouth	Bay 3	58.42	26.35	1,150
LAEast # 1	LA21,LA27	Ready	3,267	LAEast	Bay 3	242.30	71.14	2,389
LAEast # 2	LA13,LA20	Ready	3,267	LAEast	Bay 4	75.83	20.86	682
Dana Point # 1	Oceanside41	Ready	3,267	Dana Point	Bay 3	261.87	78.84	2,579
Dana Point # 2	Oceanside41,Oceanside43	Ready	3,267	Dana Point	Bay 3	338.17	78.61	2,568
Dana Point # 3	Oceanside43	Ready	3,267	Dana Point	Bay 3	552.16	68.59	2,241
Laguna Hill # 1	Oceanside18	Ready	3,267	Laguna Hill	Bay 2	218.66	87.88	2,870
Laguna Hill # 2	Oceanside16,Oceanside50,Oceanside9	Ready	3,267	Laguna Hill	Bay 2	97.08	19.66	642
SDNorth # 1	San Diego14, San Diego34, San Diego5	Ready	3,267	SDNorth	Bay 3	229.97	78.80	2,476
SDNorth # 2	San Diego14, San Diego37	Ready	3,267	SDNorth	Bay 3	119.20	61.06	1,995
SDNorth # 3	San Diego17	Ready	3,267	SDNorth	Bay 3	11.78	7.10	232

The 'Trailer Details' window for 'Dana Point # 3' shows:

- Scheduled to load at: 22-Jan-2008 10:33
- Width: 80.00, Sched. Area: 552.16
- Length: 576.00, Sched. Area (C-Flute): 552.16
- Height: 100.00, Sched. Volume: 2241
- Status: Ready
- Volume: 3267, Sched. % (volume): 68.59
- Sched. % (C-Flute): 184.05

The 'Route' window shows a map of California with a route starting from San Clemente and ending at San Marcos. The 'Load' window shows a 3D visualization of a trailer filled with colorful boxes.

State-of-the-art trailer cubing optimizes loads and increases trailer utilization



Features and Functions

CTI's Shipment Planning module is simple to use, yet extremely powerful.

The module works as the front-end of the production scheduling process to determine the best time—from the shipping perspective—that orders should be complete and ready to load.

At the back end of the scheduling process, shipment planning displays or prints the actual loading plan that specifies loading times, locations, sequences, quantities, and the specific locations of orders within each trailer.

CTI Shipment Planning uses a proprietary cubing algorithm to determine optimum use of available trailers/containers—while integration with the Microsoft® MapPoint® Web service facilitates efficient shipment routing, and increases on-time deliveries.

CTI Shipment Planning supports and enhances logistic functions specific to packaging manufacturers:

- Shipment planning and scheduling
- Route planning and optimization
- Load planning and cubing
- Generates pick lists and loading instructions
- Uses live production data to ensure schedule accuracy
- Automated delivery receipt notification
- Exception alerting to inform planners of potential scheduling problems
- Real time reporting

Improves Planning and Increases On-time Delivery

Full integration with the rest of CTI's suite of solutions enables you to react to changing customer demand, and to identify problems before they affect production efficiency. Planners can evaluate "What if?" scenarios and evaluate proposed schedule changes, and the overall impact on production and shipping—prior to making commitments.

Shipment Planning also provides the shipping department with detailed loading plans which specify loading times, trailer locations, loading sequences, order quantities, and the locations of finished goods—reducing shipping errors and increasing on-time deliveries.

Improves Trailer Utilization and Reduces Freight Costs

The proprietary cubing algorithm determines the optimum use of available trailers/containers based upon unitized load/pallet dimensions (volume), weight, inventory, and production schedule—improving trailer utilization.

Combined with optimized route planning, which determines the most efficient delivery schedule and routes, based upon customer-supplied constraints—the solution reduces the number of trailers required and trips made—lowering fuel consumption and reducing other freight related costs.

Integration with Microsoft® MapPoint® allows users to optimize shipping routes—increasing on-time delivery while reducing fuel costs

