MaxLoad®Pro | Cargo Load Planning & Optimization Software
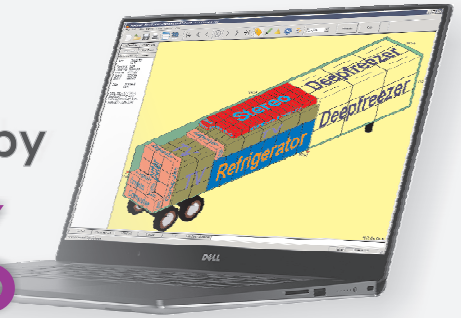
MaxLoad®Pro is a truck and container loading and diagramming software. It helps you optimize, plan, create, edit and print load plans for mixed product shipments. Utilizing the best algorithms, MaxLoad®Pro helps you:

- ❖ Optimize loading space
- ❖ Improve cubic efficiency
- ❖ Cut freight & fuel costs
- ❖ Reduce carbon emissions
- ❖ Cut loading time
- ❖ Minimize product damage
- ❖ Eliminate human loading errors

MaxLoad®Pro Cuts Freight Costs by 8-20%
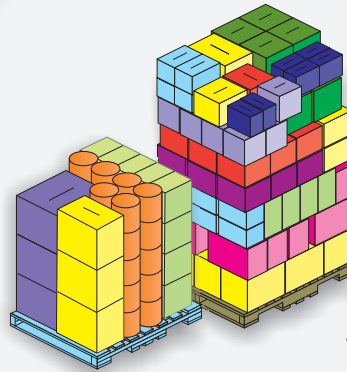
Truck and Container Loading

Calculate how many vehicles are needed for your shipment and how to load them. Support two-stage optimization and generate mixed pallets, unitloads and floor loads inside the same vehicle on the fly.

- ❖ Support trucks, ocean containers, ULDs, railcars, flatbeds and more.
- ❖ Define special vehicles with bays, shelves or corner boxes.
- ❖ Load by priority, stops or priority within stops.
- ❖ Specify ceiling clearance for fork lift operation.
- ❖ Offer different loading algorithms, enforce stacking and load rules.
- ❖ Load SKUs in set or by ratio.
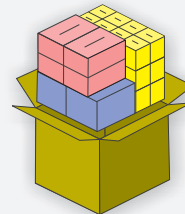- ❖ Support staggered drums and L-shaped SKUs.

Mixed Pallet Loading

Optimally create mixed pallets with stable layers or load by columns. Select one or use multiple pallet styles for the same order. Send placement solutions and pick sequence to palletizing system.
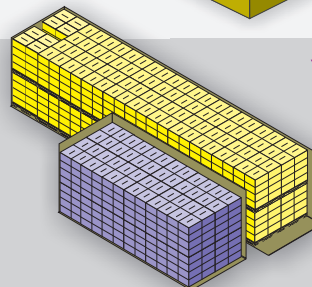
Tote Optimization

From the database, find the best tote or master shipcase for an order of mixed products. Save result as a Tote SKU to load further onto pallets or into vehicles.

Single SKU Loads

Calculate the most efficient way to cube out a truck, container or any transit vehicle. Load SKUs as floor loads or as unitloads.

Some of our MaxLoad®Pro Customers

Automotive & Industrial Goods: General Motors, Toyota, Honda, A.O. Smith, Ingersoll Rand, Goodman Manufacturing, Subzero, Rheem, WestRock, USG, Electrolux, Werner Ladder, Bosch Automotive

Retail & Consumer Goods: Home Depot, Costco, Pepsico, Tyson Foods, Anheuser-Busch, Mattel, J.M. Smuckers, Newell Rubbermaid, HNI, University Loft, Aldi, Staples, Home Retail Group, Berwick Offray LLC

Logistics: Ceva Logistics, DHL, Maersk, Ryder, UPS, J.B. Hunt, Cardinal Logistics, Damco, Penske, Mitsubishi

Powerful   Intelligent
Efficient   Easy to use
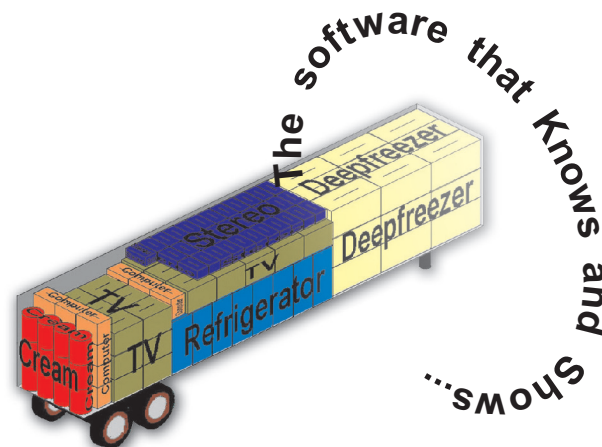
The software that knows and shows...

Load Optimization

❖ Customizable stacking and loading rules.
❖ Multiple stops and delivery priority loading.
❖ Load cylindrical items in cascading or pyramidal groups.
❖ Support L-shape SKUs in bundles and onto pallets.
❖ Automatically convert case quantities into full-pallets.
❖ Create mixed pallets on the fly.
❖ Easy step-by-step instructions for loading.
❖ Costing calculations.

Efficient and Flexible Loading Algorithms

❖ Set SKU load orientation, stack preference, maximum stack height and weight, etc.
❖ Calculate axle weight and center of gravity.
❖ User-defined stack matrix to control relative SKU loading.
❖ Load by stop offs and/or priorities.
❖ Keep orders in same vehicle.
❖ Smart pallet placement to secure more stable loads.
❖ Load SKUs in set ratio.
❖ Smart load rules to fine tune load results.

Extensive Vehicle Type Support

❖ Select from a database of predefined trucks, containers, sea vans, railcars, flat-beds, side bay trucks and ULDs.
❖ Define new vehicles with optional shelves, wheel wells, corner boxes, weight limit and more.

Easy to Use

❖ Import SKUs and pick lists via CSV or XML files.
❖ Support over 10 languages including Italian, Portuguese, French, German, Spanish, Chinese, Japanese and more.
❖ Display values in metric or English systems.
❖ Set default vehicle type, dimensions and unit of measure.
❖ Share load reports via e-mail or PDF files.

Multiple Reports and Printouts

❖ 3D graphical views of load plans, step-by-step loading diagrams and comprehensive summary reports.
❖ Add annotations, graphics, company logo, etc.
❖ Costing calculations provide estimates and quotes.

Configuration & Security

❖ Network/floating or stand-alone license.
❖ Deploy network license over Citrix or use terminal server.
❖ Password access control.
❖ Support multiple database.
❖ Data can be locked to access only but not for modification.

MaxLoad®Pro Knows, Shows & Saves 8-20%

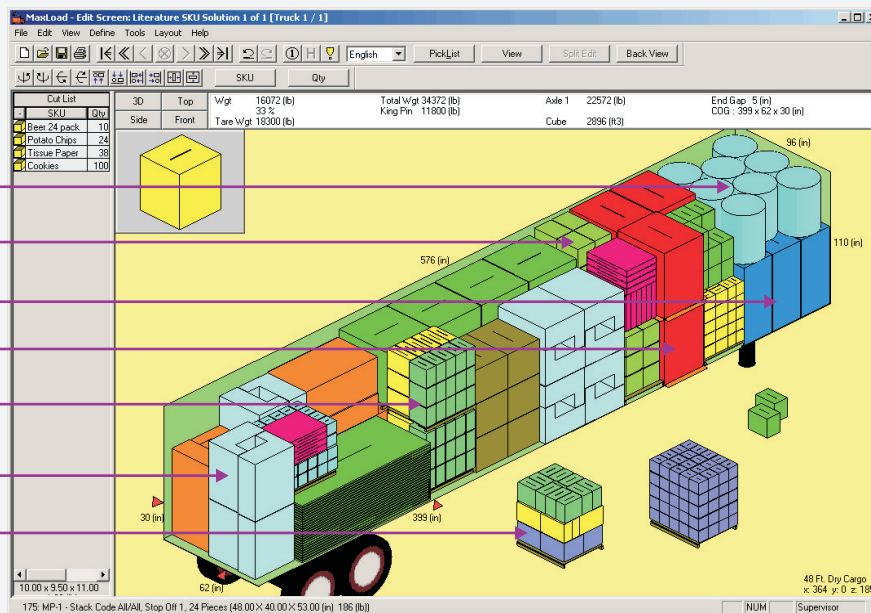**Download 30-day demo for free trial at http://www.topseng.com**

Powerful 3D Graphic Editor

The 3D editor in MaxLoad®Pro allows users to manually create a load from scratch or edit an existing solution to fine-tune custom placements.

❖ Quick buttons to step through placement of each individual item or placement group.
❖ Tool buttons to change SKU orientation.
❖ Weight, cube, king pin and axle weight are updated as SKUs are added to or removed from the vehicle.
❖ Snap, zoom in/out, rotate transit vehicle to view load from different perspectives.
❖ Split view mode provides better visualization of load during edit.
❖ Move SKU directly from one vehicle to another.

Examples of a truck loaded with different mixed items:

- Cylindrical SKU
- Single SKU as unitload
- Single SKUs as floor loads
- Pallet SKU
- Mixed pallet SKU
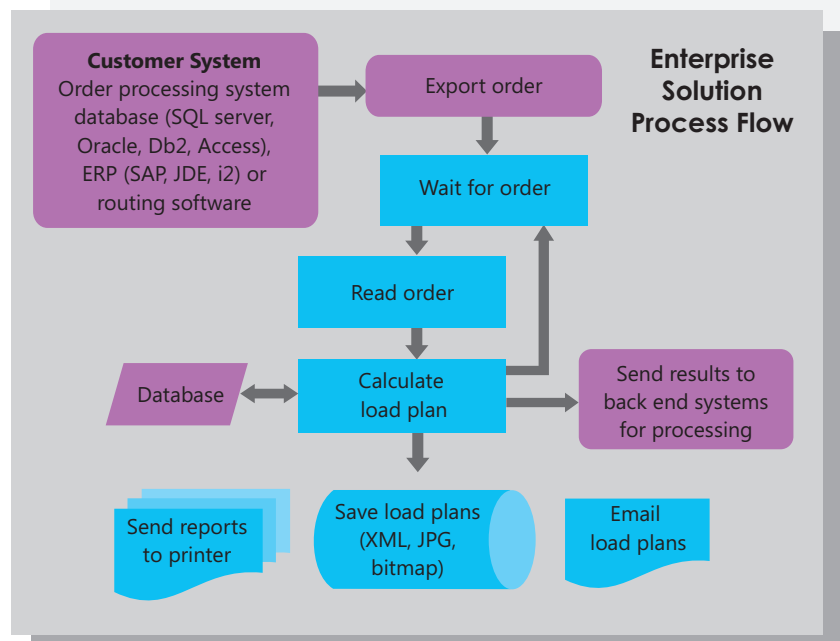- Bundled L-Shape SKU
- Mixed SKUs on pallet

Enterprise Solution Integration

MaxLoad®Pro is available in various configurations and integrates seamless load calculations into any ERP, WMS or routing software.
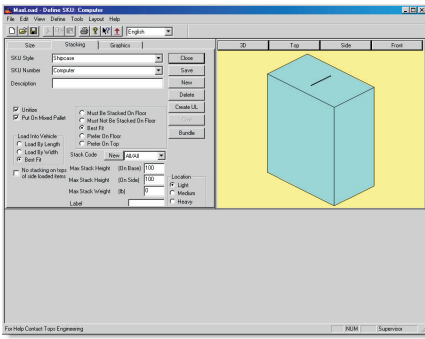
❖ ADO, SQL and Oracle server versions to integrate with existing database servers, allowing automatic updates on SKUs and pick lists.
❖ Black box server version to run in batch mode and automatically retrieve data from order file, process data, calculate loads and export solutions.
❖ Easily integrates with WMS, order entry, AS400, TMS, Oracle, EDI and supply chain systems.
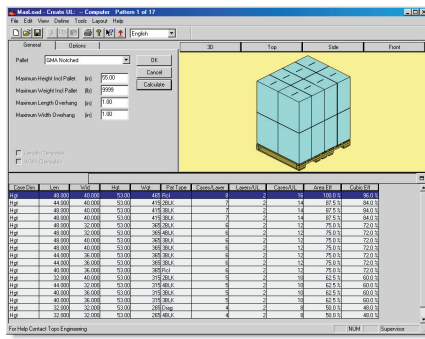
Customized Solutions

Every company and industry has specific needs. TOPS® has over 30 years of experience providing space optimization and loading solutions. We can help your organization create successful supply chain solutions.

Enterprise Solution Process Flow

Customer System — Order processing system database (SQL server, Oracle, Db2, Access), ERP (SAP, JDE, i2) or routing software → Export order → Wait for order → Read order → Calculate load plan ↔ Database; → Send results to back end systems for processing; Send reports to printer; Save load plans (XML, JPG, bitmap); Email load plans
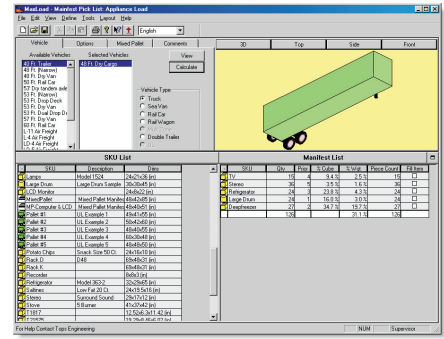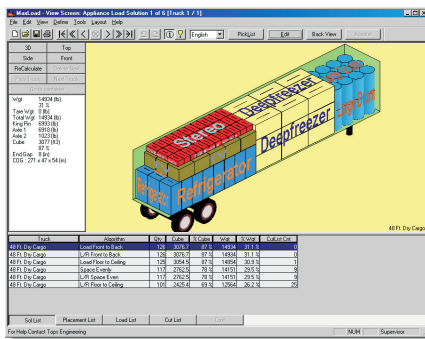
How MaxLoad®Pro Works

❶ **Define SKUs**: Create or import SKUs, define loading orientation and stack rules.
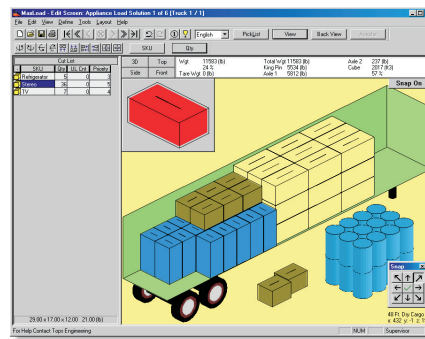

❷ **Define Unitload Pallet Pattern**: Select the desired pallet pattern for SKU unitloads.
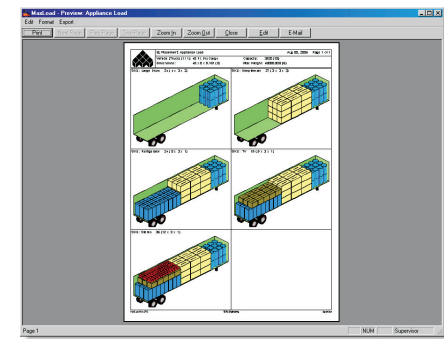

❸ **Create Pick List**: Select or import vehicles, SKUs and quantities. Specify optimization algorithms, stop off, use of mixed pallet, etc.

❹ **Solutions**: View and select the solution which best fits your needs.

❺ **3D Editor**: Add, remove or relocate SKUs within the same or between vehicles.

❻ **Reports**: Step-by-step color-coded load diagrams, summaries, plus other reports can be shared via e-mail in txt, JPG, PDF and XML.

System Requirements

Platform Client	Windows XP, Vista, Windows 7, 8 and 10
Platform Server	Any (only require a network file share)
Processor Client	x86 or x64 (1 GHz or higher)
RAM Required	1 GB or more recommended
Hard Drive Space	500 MB or more
Video Required	1024x768 or higher at 16-bit color or higher
Database	MS Jet/Access
	MS SQL (include SQL Express)
	Oracle (include Oracle Express)
Citrix	Supported
Terminal Server	Supported

Annual Maintenance and Support Plan (MVP)

TOPS® has an expert team to provide outstanding technical support and customer service. The MVP plan includes:

❖ Unlimited assistance on technical and software usage questions
❖ Free software upgrades for the annual subscription
❖ Toll-free access (USA only) during TOPS® office hours
❖ Eight man-hours of software training: on-site*, at TOPS office in Allen, Texas or web based
❖ Access to TOPS® flash-based software tutorial series
❖ Newsletters with the latest news and tips on how to get the most out of your software investment

*Customer to pay for travel & living expenses for TOPS staff to train on-site

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to request a live web demo or free trial.

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