TOPS® Pro is versatile software that allows users to determine the most optimal package design, arrangement and pallet configuration based on product dimensions and packaging requirements. It is also used to calculate product package size, package configuration, stacking strength and truck configuration, as well as to create mixed item trays and mixed-load pallets for club store displays.

**Benefits**

**Savings.** With TOPS® Pro, users can improve the bottom line by reducing packaging, transportation and storage costs by **5-20%**.
- Determine optimal package design and sizing to fit more products into a shipping case.
- Optimize shipping case sizes for less corrugated usage.
- Optimize pallet patterns to allow more products to be stacked and improve load stability.
- Calculate stacking strength to determine the best board grade, cut corrugated cost and minimize damage during transit and storage.
- Reduce transportation costs with optimized cargo loads.
- Improve productivity by decreasing the time and errors in the packaging and loading process.
- Improve communication among all functional groups.

**User Friendly Software**

- **Ease of Use** – Pop-up tool tips and menus provide online help and quick access to commonly-used functions.
- **Rich Graphics** – A real-time 3D graphics engine provides quick and realistic renderings for primary packages, shipcases, pallets and cargo loads. Rotate 3D graphics to get different views of package designs and pallet solutions. Paste-on graphics provide realistic views of the solutions.
- **Email and Export options** – Easily share packaging and load solutions via e-mail. Directly export reports in PDF, JPG and pre-defined Word templates. Easily integrate solutions and data with other systems via XML format.
- **Multiple Language Support** – Support over 10 different languages including Simplified and Traditional Chinese, Japanese, Spanish, French, Italian, Portuguese, German, Dutch and more.
- **Internet Options** – TOPS® Pro is also available on the Internet as TOPSePAC® which allows package design to be done anytime, anywhere, and on any platform by using an Internet browser.

**Why TOPS®?**

TOPS® has been offering packaging design and palletization software since the mid-1980’s. It currently has over 7,500 installation base worldwide, including corporate-wide licenses for major players in the corrugated, food & beverage, technology and pharmaceutical sectors.

TOPS® offers the best customer service and support in the industry. Its financial stability assures support for your software purchase for years to come.

TOPS® owns all of its products source code and allows full custom integration of TOPS® applications into your existing enterprise solutions.
TOPS® Pro Primary Functions

Primary Package Sizing
- Determine the best size and arrangement to package a product.
- Support bottles, milk cartons, bags, tubs, stand-up pouches and blister packs.
- Apply graphics to create realistic packages.
- Create custom shapes with C.A.S.Y. for realistic visualization.
- Simply enter the dimensions and apply graphics - a 3D rendering of the product will come right on the screen within seconds.

Intermediate Package Layout
- Use trays, display case or cartons as intermediate packs.
- Add optional dividers and pads.
- Inverted nesting for tubs and pots.
- Specify quantity and arrangement of primary packs.
- Create custom trays with die cut holes and graphics.

Optimize Shipping Cartons
- Use new, existing cartons or select from a list of stock cartons.
- Specify quantity, arrangement patterns, bulge tolerance, dividers, pads and more.
- Interactively resize cartons with addition or removal of contents or by changing product arrangement.

Pallet Configuration
- Automatically generate different pallet patterns for straight loads.
- Specify overhang and underhang.
- Set limits on pallet load height, layers per pallet and number of cartons per layer.
- Use up to four slave pallets or add a raised platform for shipcases on the pallet for marketing messages.
- Option to restrict unitloads to certain pattern styles.
- Add labels, caps, pads, slip sheets, straps, corner posts or use a secondary pattern.

Vehicle Loading
- Load a single product directly as floor loads or as pallet loads.
- Allow pallet loads and loose-filled items in the same vehicle to maximize cube yield.
- Quickly visualize the best way to maximize floor space and cubic efficiency.
- Choose from an extensive database of trucks, railcars and sea containers or define your own transit vehicle.

Versatile Reporting
- Create reports with different layouts.
- Realistic 3D views of primary pack, shipper, unitload and vehicle.
- Statistics for unitloads and vehicle loads.
- Comparison reports between load solutions or analyses.
- Save reports in XML, JPG, PDF, ASCII formats and more.
- Export reports to Word, Excel or directly as PDF files.
- Send reports via e-mail or share over a network.

The TOPS® Pro Design Process

Control Panel: Define design sequence.
Define Primary Pack: Enter dimensions, weight and optional bundle and bulge.
Define Shipcase Parameters: Use new or existing cartons, specify quantity of primary packs and add optional dividers.
Shipcase Solutions: List of configurations for different patterns.
TOPS® Pro Special Functions

Create A Shape Yourself (C.A.S.Y.)

The C.A.S.Y. module enables users to create realistic primary packs and product trays with paste-on graphics. Users can model solid symmetrical and asymmetrical shapes such as trigger-top bottles, pinch tubes, stand-up pouches and more.

Create Mixed Trays and Mixed Load Pallets for Display

The MixPro™ module in TOPS®Pro allows users to create mixed product trays and mixed product pallet loads. It features a 3D 'virtual' stage where users can easily 'drag and drop' products into a tray or shipcase and then onto a pallet. The versatility of MixPro™ provides an easy and effective way to create great display items for club stores.

Combining Pallet Patterns

TOPS®Pro automatically generates different pallet patterns for straight loads. Users can pick the one that best meets their needs, be it for cubic efficiency, for store displays, for load stability or for inventory keeping. Simply point and click on the pallet pattern editor and TOPS®Pro will automatically change the pattern. Users can also combine two pallet patterns in the same unit load to meet their specific needs.

Eco Savings Report (ESR)

The Eco Savings Report assures you’re creating sustainable packages and shipments in terms of packaging and corrugate cost, wastage, pallet costs and carbon emissions from transit vehicles during transport. Based on reports comparing up to five solutions, users can evaluate and pick the solution that poses the least impact on the environment.

RFID Analysis

The RFID location optimizer helps users find the best shipcase location for RFID tag placement for maximum readability. Users can also specify the shipcase face and position to place tags.

Compression and Stacking Strength Analysis

TOPS®Pro offers a host of mechanical and environment analyses to ensure savings in corrugated costs and minimize damage during transit and storage. It uses the McKee formula along with other factors to calculate stacking strength results based on Edge Crush, Ring Crush, or Kellicut results. Users can enter their own paper and board values as well as filter out values for quick reference. Stacking strength is also available for non-RSC boxes as a relative percentage of RSC strength.

Combined Reports

TOPS®Pro can combine two solutions or two separate analyses to create side-by-side comparison reports. Users can compare unitloads using different pallets or create knock down illustrations alongside erected cartons. The latter serves as a great value added service when sending quotations to corrugated customers.

Share Specifications over Company Network or World Wide Web

TOPS®Pro’s web publisher allows users to convert packaging specifications into web pages for the Internet or a company’s Intranet to share among colleagues and customers.

"TOPS Pro was so much easier to use and quicker than the other software we trialed. The amount of information and variables available were simply head and shoulders ahead of the competition." - Zak Woodward, Warehouse Ancillaries Supervisor, Anker International

"We have increased our capacity in each load by 10-15%. Such savings meant that our investment in the software was paid back within 3-4 months of using the new system (TOPS Pro software). - Gary Hill, Director of Logistics, Avilton Foods Ltd.

We purchased the TOPS software in 2009. The original purpose was to better communicate our carton, case and pallet configurations internally, to our co-packers and our vendors. After working with this system for a little over a year now, the value of this software has far exceeded our original expectations. - Kathy Knowles, Packaging Buyer, Clif Bar & Company
# How to Save Money with TOPS® Pro

**TOPS® Pro Reduces Corrugated Use by Optimizing Shipcase Sizes**

By picking an alternate shipcase for the primary pack, board area is cut down by 17.15% while retaining the same cubic efficiency.

**TOPS® Pro Ships More Products by Optimizing Pallet Pattern**

Improvements made by using a different pallet pattern include:

- One more shipper per layer
- Five more shippers per pallet
- Area efficiency up by 10.45%
- Cubic efficiency up by 10.34%

**TOPS® Pro Saves Shipping Costs with Container Optimization**

TOPS® Pro provides up to 50 different plans for straight loads. An optimal plan can load more shippers with the same resources.

## System Requirements

<table>
<thead>
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<tbody>
<tr>
<td>Network</td>
<td>Any (only need a file server)</td>
</tr>
<tr>
<td>Processor</td>
<td>Pentium 400 MHz or faster</td>
</tr>
<tr>
<td>Hard Drive Space</td>
<td>100 MB minimum</td>
</tr>
<tr>
<td>RAM Required</td>
<td>256 MB, 512 MB recommended</td>
</tr>
<tr>
<td>Video Required</td>
<td>800x600 at 16-bit color or higher</td>
</tr>
<tr>
<td>Compiler</td>
<td>Microsoft Visual C++ 6.0</td>
</tr>
<tr>
<td>Framework</td>
<td>32-bit XVT 5.0 and Microsoft Foundation Classes</td>
</tr>
<tr>
<td>Database Format</td>
<td>32-bit C-Tree / SQL</td>
</tr>
<tr>
<td>Import/Export</td>
<td>Uses ASCII comma delimited text files Compatible with most document management systems, spreadsheets, databases and mainframes. Include Excel, Access, Paradox, AS400 and Unix platforms</td>
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## Software Maintenance and Support

TOPS® has an expert team to provide outstanding technical support and services. The annual support plan includes:

- Unlimited technical assistance.
- Free software upgrades for the one year subscription.
- Toll-free access (USA only) during TOPS® office hours
- One full day of free training set at customer’s convenience or web based training.
- Access to TOPS® flash-based software tutorial series
- Newsletters with the latest news and improvements in TOPS® software and tips on how to get the most out of your software investment

*Travel & living expenses are responsibility of the customer

For more details, call 972-739-8677 or visit our web site at www.topseng.com