

# Loading a Single-SKU Manifest

## Introduction

This chapter explains how to load a single-sized case manifest using MaxLoad Pro. The topics outlined in the chapter are as follows:

- ❖ Single-SKU Manifest Pick List Screen
  - Vehicle Tab
  - Options Tab
  - Comments Tab
  - SKU List
  - Manifest List
  
- ❖ Defining a Single-SKU Manifest

# Single-SKU Manifest Pick List Screen

Once you've logged into MaxLoad Pro, the first screen that appears is the Control Center. This screen, described in detail in Chapter 2, The Basics, contains icons representing each of the various types of problems you can solve using MaxLoad Pro. To start a new Single-SKU Manifest, start from the Control Center and follow these instructions:

Click on the New button under the Single SKU icon.

**System Response:** The Single-SKU Manifest Pick List screen appears, as pictured on the next page.

Once the Single-SKU Manifest Pick List screen is displayed, you're ready to begin defining the components of a new manifest. This screen is the basis for collecting data for building a new manifest.

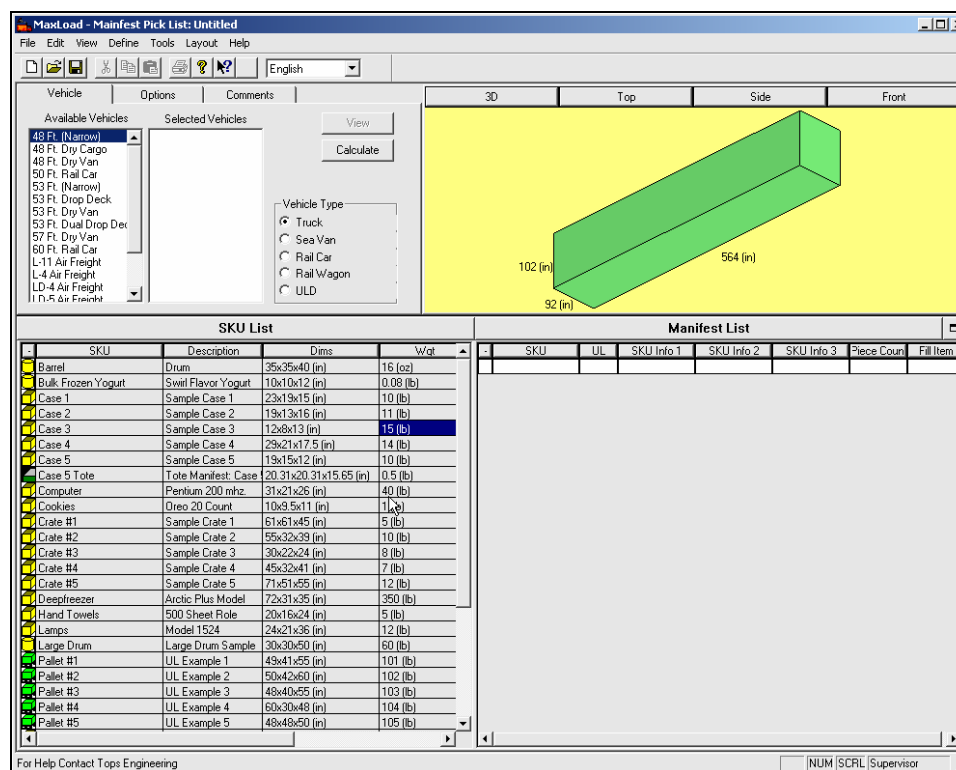


Figure 7.1 Manifest Pick List Screen (Single-SKU)

The Single-SKU Manifest Pick List Screen is comprised of the following components:

- ❖ **Vehicle Tab:** Allows you to select the type of transit vehicle to be used for a manifest.

- ❖ **Options Tab:** Allows you to define the pattern in which the SKU will get loaded in the transit vehicle.
  - ❖ **Comments Tab:** Allows you to enter comments to be displayed on the Single-SKU printouts.
  - ❖ **g.o.d. Window:** Displays a 3-dimensional graphic image of the selected transit vehicle.
  - ❖ **SKU List:** Displays a list of all SKU's (PalletLoads, Shipcases, Drums, Tote SKU's, and Pallet SKU's) available in the SKU database.
  - ❖ **Manifest List:** Displays the single SKU selected to be loaded into the transit vehicle, particular to a manifest. As you select the SKU from the SKU List it automatically appears in the Manifest List.
- Note:** For Truck Manifest, Pallet Manifest, and Tote Manifest the Manifest List can contain more than one SKU.
- ❖ **View Button:** Allows you to view a previously calculated load, without recalculating it. This feature works only if you've previously calculated a load and is used primarily after you've made changes to a load in the Editor screen.
  - ❖ **Calculate Button:** Allows you to calculate a load/manifest.

## Vehicle Tab (Single-SKU Manifest)

The Vehicle tab, pictured below, allows you to select the type of transit container (Truck, Sea Van, Rail Car, etc.) for a manifest.

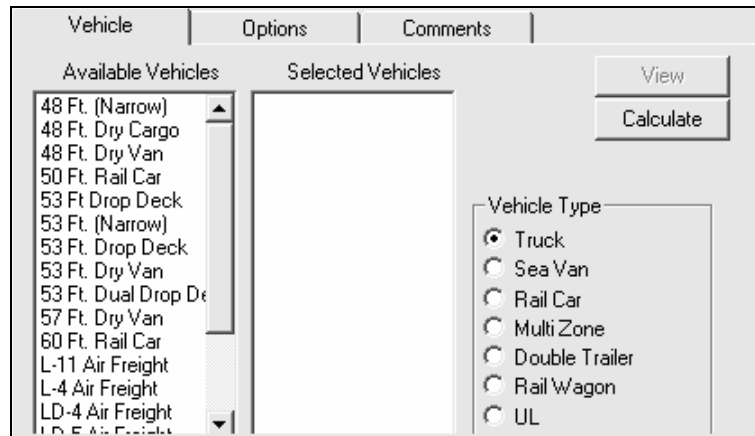


Figure 7.2 Vehicle Tab (Single-SKU)

The Vehicle tab is comprised of the following components:

- ❖ **Vehicle Type:** Displays the various kinds of containers defined in MaxLoad Pro. You can narrow down the list of available vehicles by choosing a Vehicle Type. This action will filter the Available Vehicles list to display only one type of vehicle
- ❖ **Available Vehicles:** Displays a list of all vehicles available in the vehicle database. In order to build a load, you will need to either choose an existing vehicle or define a new one through the Define menu

Double click on a vehicle in Available Vehicles list to move it to the Selected Vehicles list. Also notice that as a vehicle name is highlighted, a representation of that vehicle displays in the g.o.d. (graphical on-line drawing) window.

- ❖ **Selected Vehicles:** Displays the containers selected from the Available Vehicles list, for a particular manifest.

When MaxLoad Pro calculates solutions for a manifest, it uses only the vehicles listed in the Selected Vehicles list. To remove a vehicle from this list, double-click on the vehicle in question, in the Selected Vehicle list. This will remove the vehicle from the Selected Vehicles list and place it back in the Available Vehicles list. A representation of the selected vehicle will appear in the g.o.d. window.

## Options Tab (Single-SKU Manifest)

The Options tab, as pictured below, allows you to further customize your manifest by defining pattern styles for the load.

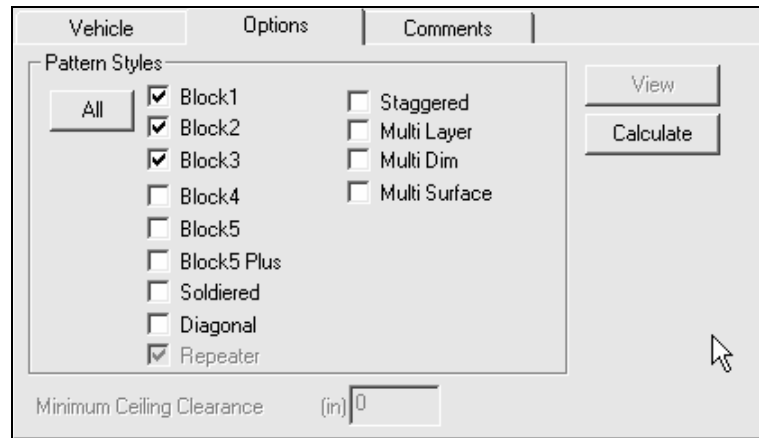


Figure 7.3 Options Tab (Single-SKU)

MaxLoad Pro allows you to analyze a number of pattern styles when loading a SKU into a vehicle. When loading SKU's into a vehicle, MaxLoad Pro will attempt to calculate at least one solution for every pattern style you've chosen. Keep in mind, however, that MaxLoad Pro may not find a solution that utilizes every pallet pattern chosen. This is especially true for some of the less common pattern styles, such as Soldiered, Multi Layer, Multi Dim, etc. The characteristics of the SKU will ultimately determine whether or not a pattern style can be used to develop a solution.

Below are images of two unitloads, displayed in plan view for each pattern type. Each image uses the depth dimension as the vertical dimension.

- ❖ **Block1:** The Block1 pattern is also known as column stack pattern. It is simple pattern with all of the shipcases stacked in the same orientation.

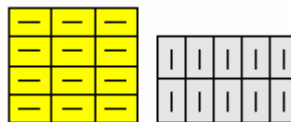


Figure 7.4 Block1 Pattern

- ❖ **Block2:** A bi-block pattern is formed by the shipcases stacked in two different orientations. Also known as an interlock pattern, when used in conjunction with layer rotation.

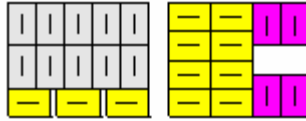


Figure 7.5 Block2 Pattern

- ❖ **Block3:** In a tri-block pattern the SKU blocks are stacked in three different orientations

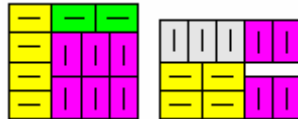


Figure 7.6 Block3 Pattern

- ❖ **Block4:** A Block4 pattern, is made up of four blocks of shipcases that form a pinwheel-like figure

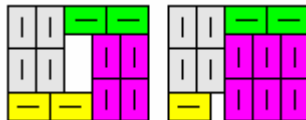


Figure 7.7 Block4 Pattern

- ❖ **Block5:** A penta-block pattern is made up of five blocks of shipcases. Four blocks of shipcases form a pinwheel configuration; the fifth block of shipcase is positioned in the middle.

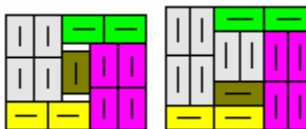


Figure 7.8 Block5 Pattern

- ❖ **Block5 Plus:** The Block5 Plus pattern has another Block5 pattern in the middle of the configuration. Four blocks of shipcases form a pinwheel configuration; a separate 5-block configuration of shipcases is positioned in the middle.



Figure 7.9 Block5 Plus Pattern

- ❖ **Soldiered:** In a Soldiered pattern the cases are spaced apart so that other cases can be turned on their sides and fit into the space.

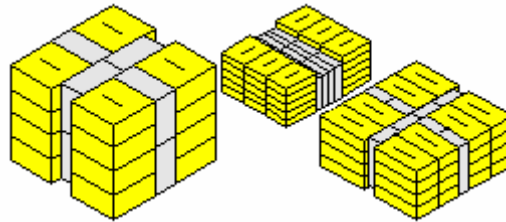


Figure 7.10 Soldiered Pattern

- ❖ **Diagonal:** The diagonal pattern has alternating blocks of shipcases that form a diagonal configuration.

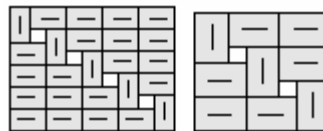


Figure 7.11 Diagonal Pattern

- ❖ **Staggered:** The staggered pattern is used to load round containers onto a pallet. As you can see, the round containers mean the configuration will have a staggered, rather than linear, pattern.

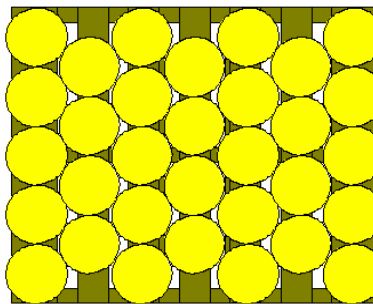


Figure 7.12 Staggered Pattern

- ❖ **Multi Layer:** In the two unitloads pictured on next page, the top layer is lifted to show that different layers have different patterns. With a multi-layer pattern, MaxLoad Pro configures the unitload with the vertical dimension specified by the user, with the exception of the top layer. (The top layer is not affected by stacking strength).

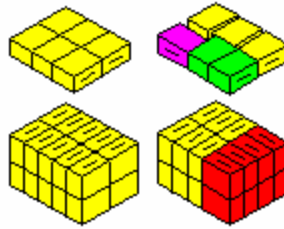


Figure 7.13 Multi Layer Pattern

- ❖ **Multi Dim:** In a Multi Dim pattern, each layer has a different vertical dimension.

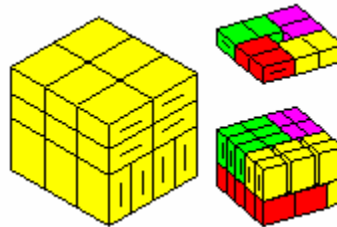


Figure 7.14 Multi Dim Pattern

- ❖ **Multi Surface:** The figure below shows a multi-surface pattern. With this pattern, MaxLoad Pro turns the pallet on its side, loads the pallet, configures the pattern, then turns the pallet upright again. In the figure below, the arrows indicate the side on which MaxLoad Pro loaded the pallet. To use a multi-surface pattern, it's necessary to select at least two dimensions as vertical dimensions. When you use a multi-surface pattern, MaxLoad Pro automatically calculates other multi-patterns

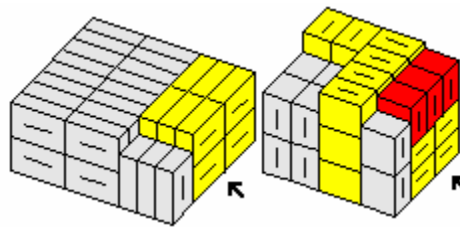
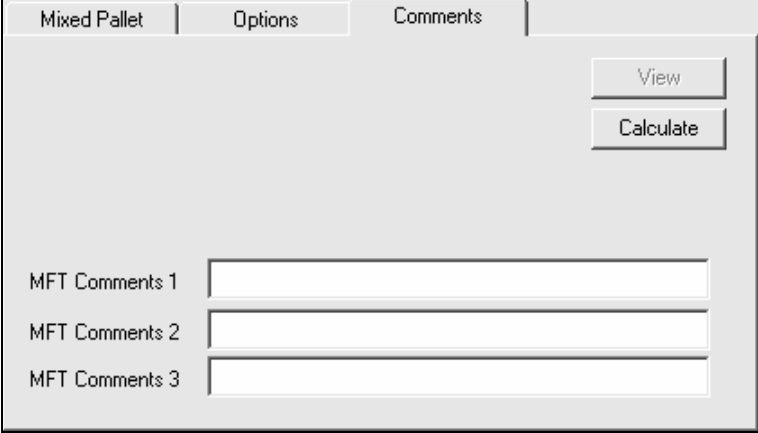


Figure 7.15 Multi Surface Pattern

## Comments Tab (Single-SKU Manifest)

The Comments tab, as pictured below, allows you to enter comments regarding the Single-SKU manifest.



The screenshot shows a software interface with three tabs: 'Mixed Pallet', 'Options', and 'Comments'. The 'Comments' tab is selected. In the top right corner, there are two buttons: 'View' and 'Calculate'. Below these buttons, there are three text input fields labeled 'MFT Comments 1', 'MFT Comments 2', and 'MFT Comments 3'.

Figure 7.16 Comments Tab (Single-SKU)

The Comments tab contains the following fields.

- ❖ **MFT Comments 1:** Enter comments regarding the Single-SKU manifest to appear on Manifest printouts.
- ❖ **MFT Comments 2 & MFT Comments 3:** These are not available for Single SKU Manifest.

## SKU List (Single-SKU Manifest)

The SKU List, displays a list of all SKU's available in the SKU database. For more information, please refer to Chapter 4, Loading a Truck Manifest.

## Manifest List (Single-SKU Manifest)

The Manifest List, displays the single SKU to be loaded into the vehicle. Because this is a Single-SKU load, there will be only one SKU listed here. As you select a SKU from the SKU List, it will automatically appear in the Manifest List. To load unitloads, click in the checkbox under the UL column, MaxLoad will designate the SKU to be loaded as part of a unitload.

For more information, please see Chapter 4, Loading a Truck Manifest.

# Defining a Single-SKU Manifest

To define a Single-SKU Manifest, start from the Control Center and follow these instructions:

1. Under the Single-SKU Manifest box, click the New button.

**System response:** The Manifest Pick List Screen appears

2. Select a vehicle from the list of Available Vehicles by double clicking on the vehicle

**System Response:** The selected vehicle displays in the Selected Vehicles list.

3. Select the SKU to be loaded from the SKU List by double clicking on the SKU.

**System Response:** The selected SKU displays in the Manifest List pane.

4. If everything is correct, click on the Calculate button.

**System Response:** MaxLoad Pro calculates solutions based on your input.