

# Pallet Patterns

## Introduction

MaxLoad Pro allows you to define new pallets with a specific pallet pattern. This appendix describes the pattern styles you can use with MaxLoad Pro.

Note that the first seven pattern styles – 1-block, 2-block, 3-block, 4-block, 5-block, 5-block plus and diagonal – allow you to choose a vertical dimension for the shipcases and use that vertical dimension throughout the arrangement.

The figures presented with these seven patterns each use the depth dimension as the vertical dimension. For each pattern, two unitloads are displayed in plan view for enhanced clarity.

## 1-Block Pattern

The 1-block, column stack pattern is pictured below.

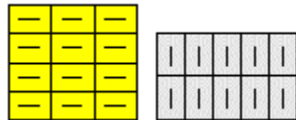


Figure 14.1 1-Block Pattern

This is a simple pattern with one block of shipcases.

## 2-Block Pattern

The 2-block pattern, also known as an interlock or bi-block configuration, is pictured below.

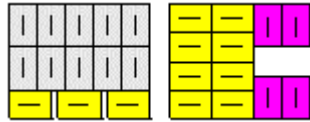


Figure 14.2 2-Block Pattern

The two unitloads above show this 2-block pattern of shipcases.

## 3-Block Pattern

The 3-block, or tri-block, pattern is pictured below.

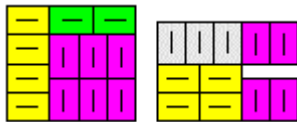


Figure 14.3 3-Block Pattern

The two unitloads above show this 3-block pattern of shipcases.

## 4-Block Pattern

The 4-block, pinwheel pattern is pictured below.

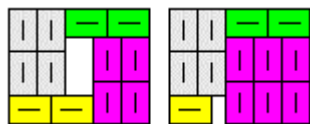


Figure 14.4 4-Block Pattern

In the two unitloads above, this pattern is made up of four blocks of shipcases that form a pinwheel-like figure.

## 5-Block Pattern

The 5-block, or penta-block, pattern is pictured below.

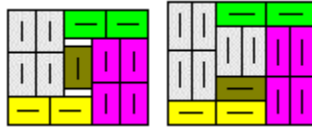


Figure 14.5 5-Block Pattern

In the two unitloads above, this 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.

## 5-Block Plus Pattern

The 5-block, or penta-block, pattern is pictured below. Notice that this 5-block pattern has another 5-block pattern in the middle of the configuration.

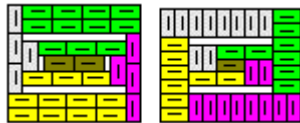


Figure 14.6 5-Block Plus Pattern

In the two unitloads above, this pattern is made up of five blocks of shipcases. Four blocks of shipcases form a pinwheel configuration; a separate 5-block configuration of shipcases is positioned in the middle.

# Diagonal Pattern

The diagonal pattern is pictured below.

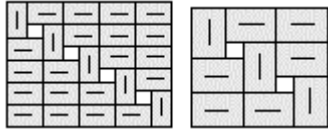


Figure 14.7 Diagonal Pattern

In the two unitloads above, this pattern has alternating blocks of shipcases that form a diagonal configuration.

# Multi-Layer Pattern

The multi-layer pattern is pictured below.

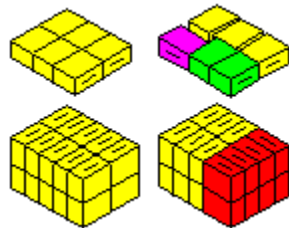


Figure 14.8 Multi-Layer Pattern

In the two unitloads above, 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 you specified, with the exception of the top layer. (The top layer is not affected by stacking strength).

## Multi-Dimension Pattern

The multi-dimension pattern is pictured below.

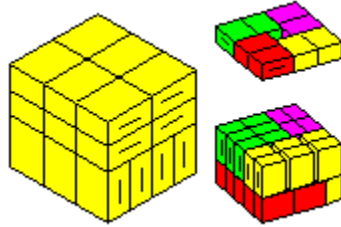


Figure 14.9 Multi-Dimension Pattern

In the two unitloads above, each layer has a different vertical dimension.

## Multi-Surface Pattern

The figure below shows a multi-surface pattern.

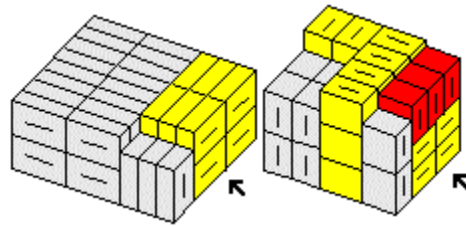


Figure 14.10 Multi-Surface Pattern

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 above, 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.

# Repeater Pattern

The repeater pattern is pictured below.

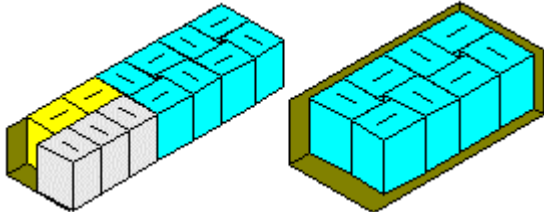


Figure 14.11 Repeater Pattern

The figure above shows two vehicle configurations. With the repeater pattern, you'll fill the vehicle with the pinwheel pattern on the right, then fill the rest of the vehicle space with other patterns, if possible. This pattern is available only if you're loading pallets onto a vehicle.

# Soldiered Pattern

The soldiered pattern is pictured below.

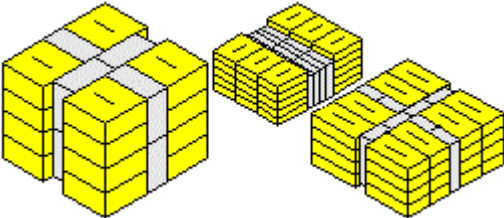


Figure 14.12 Soldiered Pattern

In the two unitloads above, the cases are spaced apart so that other cases can be turned on their sides and fit into the space.

# Staggered Pattern

The staggered pattern is pictured below.

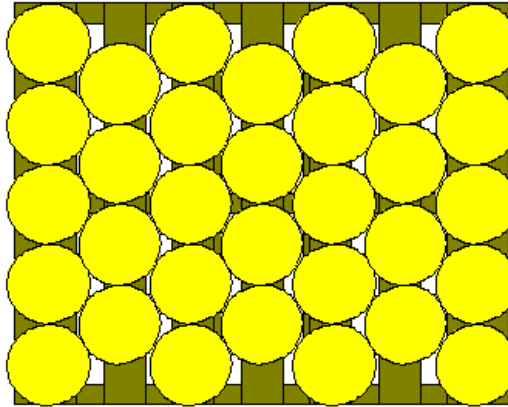


Figure 14.13 Staggered Pattern

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.

