

## New Design for an Old Industry

Enhanced, patented cardboard crating technology

### Technology

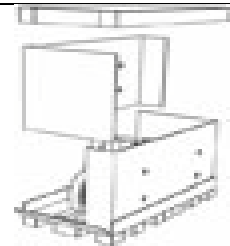
We would like to bring to your attention a new design for an old industry. Shipping and crating has been made easier and less expensive for domestic and international shipments. For your international shipments, no longer is there a worry about increased wood restrictions and crate quarantines.

The basic new design provides cushioning and great vibration dampening and arrives knocked down - ready to setup in just minutes. You save on labour and cost of weight sensitive freight, with our typical crate weighing about 40% of a wooden crate.

Our crates ship efficiently for customers located throughout the country. We provide cushioning and specialty applications where needed. Our crate saves right to the end of its life by greatly reducing disposal costs to \$0.00 when utilizing our all fibre design.

All of our crates are easily reusable, easily knocked down flat, and shipped back for reuse.

### J Crate Design™



The “J Crate” design is the heart of this new simple concept. Viewing the sidewall from the top will reveal a “J” shape that interlocks with another identical “J” shape as its opposing sidewall. Both “J” walls make up four sides of the crate, creating superior strength while maintaining a speed of packing and unpacking.

These “J’s” also interlock with the “Kickplate”.

### Kickplate Design™



The “Kickplate” is the floor and/or ceiling of the crate that provides a couple of services:

Firstly, it increases the floor-loading capability. We make the “Kickplate” in the Cross-Core fashion, which stiffens the crate floor.

Secondly, it forms a channel around the perimeter for the J walls to fit into.

This inhibits side impacts from being able to move the walls inward.

This is particularly useful for long crates.

## Spiralfoot Design™



Our newest patented technology is the "Spiral Foot Design". It utilizes two small pieces of plywood to enable the crate to be nailed to the spiral foot.

The spiral foot is nailed to the plywood rail.

What does this provide? For the first time this new designed Corrugated crate is LTL (less than truckload) ship-able.

The spiral design provides a number of benefits for crating your machinery, etc. It provides the durability needed to ship machinery worldwide.

It naturally provides a level of cushioning and vibration protection that Wood cannot.

Need more Cushioning? The Double-Dura Cushion Foot provides an inexpensive alternative to the die-cut glued foam that is typically placed within a crate.

## W Fold™



An additional simple additional patented technology is the "W Fold". It allows the sidewalls to fit inside the crate for shipping. We do this for our "J Crates" or where a reusable crate is required for ease of return. The sidewall merely has additional scores that allow the sidewalls to be folded up and placed inside the crate.

This is only necessary when the height is longer than the width.



We ship crates knockdown for destinations across the country.

We can ship up to 9 crates per stack, which makes shipping cost effective.

We provide solutions for even the most delicate equipment. Our crating reduces vibration and cushions your product in many instances without any enhancements. If needed, we engineer cushioning materials into the six sides of the crate for quick loading and unloading. Ramps are available as well.

A special crating design concept has already been approved by the US Department of Defence (DoD). The latest addition for review is the Defence Container 48x40x18" and 24. Other sizes are available. The DoD crate has a rated top loading strength of 22,710 pounds. The military specification for this crate is to have an 8 times service factor, so that it can place 4,000 pounds on top of the crate for stacking.

J Crate Design™, Kickplate Design™, Spiralfoot Design™, W Fold™, Crossscore Design™ are registered Trademarks of WoodFree Crating Systems.

Worldwide patents are pending.

