The range can be supplied to run cases, tray/shrink, plastic crates/totes or drums. Fibre King Palletisers are in use throughout the world including Europe, China, New Zealand, the Philippines, South Africa, Thailand and Singapore. The first one we manufactured is still in operation after 30 years of hard work!

At Fibre King, we don’t just build machines – we engineer peace of mind. Call us on +61 7 3889 4400 to see how we can help you.
The following information demonstrates the total range and typical applications of Fibre King Palletisers.

Fibre King manufactures two main types of palletisers: mechanical and robotic.

If you are unsure as to which type of palletiser best suits your application, refer to the (FK_SystemComparison.pdf) document available for download from our website. It provides a good comparison of the strengths and weaknesses of the various approaches to palletising.

The entire range features:

**Heavy Duty Construction**
Our palletisers are designed for use in 24 hour per day production environments, for a serviceable life of in excess of 15 years.

**Colour Touchscreen**
With full monitoring of machine status and diagnostics. Internet access enables our engineers to provide exceptional levels of remote support.

**Quiet Operation**
Less than 75dB.

**Clean and Open Design**
With easy operator and maintenance access.

**Robust Guarding**
Electrically interlocked to AS4024.1 or equivalent International Standard. Give your staff the best protection and maximise uptime with quick access for clearing obstructions.

**Reliability and Spare Parts Availability**
Only high end proprietary items are used ensuring reliable performance and immediate availability of spare parts. Festo, SICK, SEW Eurodrive and Nordson are examples, though we are happy to use customers site standards.

24 hours a day, seven days a week, for decades.

The Fibre King Mechanical Range of Palletisers are all high level machines, meaning the cases are fed in at a high level and the pallet is loaded initially at a high level and then indexed lower layer by layer. See figure 1.

**The Mechanical Range Benefits:**

- Small footprint for speed capability.
- Lift and turn case orientation allows for exact 90° rotation and does not require changes when handling a wide range of case sizes.
- With the addition of a servo drive, case labels can always be presented to the outside of the pallet.
- Pallet dispenser uses full length tynes. Most competitors use small supports in each corner which will cause a jam if a board is missing or loose.
- Empty pallets are transported into pallet lift on a sheet metal shuttle which reduces stoppages if boards are hanging down or nails are protruding. Most competitors use conveyors in this area.
- The combination of fork tyne dispenser and sheet metal shuttle reduces the likelihood of obstructions at the bottom of the empty pallet stack, an area where clearing them is very difficult.
- Option for automatic size change of both case size (pattern/layers/datums) and pallets (subject to confirmation).
Within our high level mechanical series there are three main ranges:

**CP20-30 Range**

With Single Row Forming Conveyor
Fibre King normally supplies either an incline conveyor or vertical case elevator (if space is tight).

**CP40-50 Range**

With Dual Row Forming Conveyor
This (typically) halves the number of row pushes to form a layer. Normally Fibre King supplies an incline conveyor and a 1:2 lane channeliser to split the cases.

**Speeds**
The 20/30/40/60 designation reflects the maximum speed the palletiser could achieve on an optimal pattern. On patterns with many turned cases or a low number of cases per layer (such as large meat cases) the maximum speed achievable is lower.

**Materials**
Fibre King can provide the palletisers either in painted mild steel or 304 stainless steel.

**Products**
The majority of our palletisers are running cases, followed by tray/shrink packs.

Within the oil industry we have many round drum palletisers, normally 20L.

For chemical manufacturers we have supplied square/rectangular plastic drum palletisers.

**Standalone Machines**
For single line applications the palletisers are supplied as standalone machines, including empty pallet dispenser (10 pallet capacity) and 2 or 3 full pallet gravity outfeed conveyor. Pattern changes are made via the touchscreen with handwheels to adjust the datum fences. Typical changeover time is 2 minutes.
Options

Across both models there are a number of options:

**Stack heights:** 1650/1950/2550mm including pallet

**Pallet board/slip sheet inserter:** places a pallet board or slip sheet (typically plastic or cardboard) on the pallet before the first layer

**Layer pad inserter:** places a layer pad board (typically plastic or cardboard) in between layers anywhere on the pallet. The use of a layer pad inserter reduces the maximum output of the palletiser

**Automatic size change:** motorised or pneumatic adjustment of datum fences

**Multiple pallet sizes:** palletisers can be designed to suit multiple pallet sizes, change over between pallet sizes involves either change parts or may be able to be automated.

**Half pallet:** for some half pallet applications the palletiser can be configured to palletise two pallets at the same time

**Unitising:** product is stacked onto a pallet board or slip sheet inserter only, no pallet is used. This machine can be also be configured to run either as a palletiser or unitiser

**Two-tiering:** one completed pallet is raised, then a second positioned underneath. The top pallet is lowered and the double stack then discharged.

Modular Systems: the CP20 – CP60 range can be supplied as modular systems utilising common empty and/or full pallet handling systems. Such systems can incorporate a single pallet dispenser and pallet board inserter feeding 2 – 6 palletisers. Full pallets are conveyed on a common full pallet conveyor through a single stretch wrapper to the warehouse or truck loading system.

Modular line using three palletisers in an inline configuration.

Why take a risk? Some of the world’s biggest multi-nationals choose Fibre King.

Variations & Options
The Active 150/225 utilises all of the proven elements that make Fibre King’s mechanical palletiser range so successful, and combines them with the Intralox ARB™ Pallet Layer Former Series 7000.

**Speeds**
It offers speeds of up to 150 cases per minute (dependent on product and pallet pattern) while minimising mechanical changeovers, and improving safety and maintenance requirements. Options to 225 packs per minute available.

**Products**
Handles cases and shrinkwrapped product.

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**Robotic Palletisers**

Building on our 50 plus year history of case and pallet handling systems, we now offer the robotic range of palletisers. Utilising the latest in robot and gripper technology we can deliver a completely integrated solution.

**Standalone Robot:** in its most basic form a single robot with an advanced gripper can be used to unstack empty pallets, place pallet boards and/or slip sheets and palletise cases. This can be done either directly on the floor (for hand trolley/forklift/LGV removal) or onto powered pallet conveyors.

**Modular Systems:** one or more robots can be integrated with a remote pallet dispenser and pallet handling equipment to deliver a large and flexible system.

Typically robots have advantages for multi-line slow speed applications. See the document (FK_SystemComparison.pdf) for a good comparison of the strengths and weaknesses of the various approaches to palletising.

**Benefits**
- Reduction in labour cost
- Reduction in injuries and associated costs
- Improved pallet presentation/reduced product damage
- Removal of human intervention in product sorting
- Ability to operate in poor work environments
“From the enquiry stage right through until final commissioning, Fibre King were a fantastic company to deal with. The equipment went in without a hitch, and all the Fibre King technicians conducted themselves in a courteous and professional manner. They knew the product they were supplying inside and out.”

Damien Rigato
Director, Rigato Farms
The Fibre King Difference

➤ More Uptime
Fibre King machines are designed and manufactured to withstand constant, rigorous use. Changeovers happen quickly and seamlessly; and we build in easy access for maintenance and upgrades. Our remote monitoring, PLC programming and service standards are such that some of the world’s biggest companies choose Fibre King as their preferred supplier.

➤ Lower Overall Cost of Use
Let’s start with strategic design – we make a study of the end use and create a machine that does what it needs to most efficiently, using the best technology available. Our classic Fibre King machines are tailored to your exact requirements, and the beauty is that if your requirements change, the equipment can usually be converted to suit. Less operator intervention is required on a Fibre King machine; your products will be better protected in transit because of our superior quality packs; and all this is backed by faster maintenance and support, plus competitively priced spares.

➤ ‘No Excuses’ Service
We stand by our word, and move heaven and earth to make it happen.

“Equipment failure has a significant impact on all our valued customers. We look for reliable, flexible, serviceable products and equipment from our preferred partners - Fibre King consistently meets our demands.”

Mark Krygger, Orora Group