Manufacturing Systems
For Residential, Institutional, Commercial And Industrial Buildings
“Our solutions work because we have all the knowledge we need within our team. We have building system researchers, software developers, CAD designers, engineers, machine control experts, technicians and on-site construction experts. We also have people who are good at listening to customers – we’ve always been driven by market needs, because a solution is only worthwhile if it delivers better productivity and quality to our customers.”

Mark Taylor CEO/Chairman
Why Choose FRAMECAD® Manufacturing Systems?

FRAMECAD® manufacturing systems produce cost-effective, lightweight steel framing components quickly and efficiently, either at the client’s own factory, offsite or through the FRAMECAD® global network. These include framing systems, roofing, flooring, walls and trusses.

FRAMECAD® offers a large range of manufacturing systems varying from single profile, multi profile, and special needs responding to every lightweight steel framing building project.

With more than 25 years of experience, FRAMECAD® has been constantly improving, investing everyday in R&D to develop the latest technology in manufacturing systems. FRAMECAD® technologically advanced manufacturing systems range use our intelligent software to rapidly produce lightweight steel framing.

FRAMECAD® manufacturing systems are made in New Zealand and use quality New Zealand and European componentry from reliable suppliers. To ensure the best customer experience, our customers can have access to FRAMECAD® Care. A global customer support service, which provides technical, software, engineering, and design and manufacturing support.

FRAMECAD® offers a global presence with a growing number of international offices in New Zealand, Australia, Asia, Middle East, USA and Africa, offering the local expertise to serve your market.

Advanced computer aided manufacturing systems for the rapid construction of quality buildings for businesses, residential, governments and communities.
**Choosing the right FRAMECAD® manufacturing system for your requirements**

### Manufacturing Single Profile Systems

<table>
<thead>
<tr>
<th>PROFILE / GAUGE RELATIONSHIP</th>
<th>0.0mm</th>
<th>0.55mm</th>
<th>0.75mm</th>
<th>0.95mm</th>
<th>1.15mm</th>
<th>1.55mm</th>
<th>1.95mm</th>
<th>2.45mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>300mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>250mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>89mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>75mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0mm 0.55mm 0.75mm 0.95mm 1.15mm 1.55mm 1.95mm 2.45mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Manufacturing Multi Profile Systems

<table>
<thead>
<tr>
<th>PROFILE / GAUGE RELATIONSHIP</th>
<th>0.0mm</th>
<th>0.55mm</th>
<th>0.75mm</th>
<th>0.95mm</th>
<th>1.15mm</th>
<th>1.55mm</th>
<th>1.95mm</th>
<th>2.45mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>305mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>250mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>89mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>75mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0mm 0.55mm 0.75mm 0.95mm 1.15mm 1.55mm 1.95mm 2.45mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Manufacturing Systems Per Needs

<table>
<thead>
<tr>
<th>BUILDING HEIGHT</th>
<th>MANUFACTURING SYSTEMS BUILDING SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>G6</td>
<td>Roof Truss Only</td>
</tr>
<tr>
<td>G5</td>
<td>Frame and Truss</td>
</tr>
<tr>
<td>G4</td>
<td>Frame and Truss</td>
</tr>
<tr>
<td>G3</td>
<td>Multi Profile Systems</td>
</tr>
<tr>
<td>G2</td>
<td>Frame and Truss</td>
</tr>
<tr>
<td>G1</td>
<td>Multi Profile Systems</td>
</tr>
<tr>
<td>Floor Level</td>
<td>TM300iT</td>
</tr>
<tr>
<td></td>
<td>F325iT</td>
</tr>
<tr>
<td></td>
<td>F450iT</td>
</tr>
<tr>
<td></td>
<td>TF550H</td>
</tr>
<tr>
<td></td>
<td>ST800iT / ST900iT</td>
</tr>
</tbody>
</table>
Single Profile Manufacturing Systems

FRAMECAD® F325iT

F325iT - Innovation, compact, fast, reliable & versatile manufacturing system

Ideal system for:
- Housing
- Social housing
- Light commercial
- Transportable & modular
- Low rise (less than 3 levels)
- Roof truss system
- Floor truss / Joist system
- Facades

Benefits:
- Increased efficiency & production through advanced auto gauging system
- Faster production & less maintenance costs. Typical production output up to 750 lineal m/h
- Unrivalled versatility with a full range of punching functions that allows an entire building (walls, truss and floors) to be constructed using a single steel profile
- Fully integrated with FRAMECAD® software, and FRAMECAD’s online applications (MyFRAMECAD®), Internet and WiFi capable
- Value engineering, software incorporates light gauge steel building codes and will output calculations as required
- Next generation technology, online remote diagnostic support & specialist machine production data reporting with built in internet connectivity
- Can be included as part of 40ft FRAMECAD® mobile factory
- Autogauging system that automatically adjusts gauge range when required
FRAMExCAD® F450iT

F450iT - Heavy duty, fast, integrated & precision manufacturing system

Ideal system for:
- Heavy residential buildings
- Light industrial buildings
- Heavy high walls
- Heavy trusses
- Heavy flooring
- Short span flooring

Benefits:
- Ideal solution for producing G+2 to G+4 storey construction
- 100% New Zealand designed and built to New Zealand quality standards
- Designed for ease of onsite assembly
- Comprehensive range of FRAMECAD® spare parts (common to F325iT) for ease and speed of maintenance and servicing
- Fully integrated with FRAMECAD® software, and FRAMECAD’s online applications (MyFRAMECAD®), Internet and WiFi capable
- Offers full framing capabilities, with 11 frame and truss tooling punches and an additional spare tool for custom tool on request at time of purchase of manufacturing system
- Framing product is a boxable section, providing easy assembly for heavy building requirements. Specially designed flanges make boxing in heavy gauge material easy
- Can be included as part of 40ft FRAMECAD® mobile factory
- Autogauging system that automatically adjusts gauge range when required
- Patented ‘Quick Access’ dimple punch, which provides increased serviceability and improved general operation
TF550H - Heavy duty, fast, integrated & precision manufacturing system

Ideal system for:
- Low & mid-rise buildings
- Mass housing
- Transportable & modular
- Commercial
- Warehouses / storage
- Cyclonic regions

Benefits:
- Equipped with FRAMECAD®'s online applications (MyFRAMECAD®) and Internet and WiFi capabilities which is designed to deliver greater efficiencies to your business
- Higher production speeds and greater quality product with 14 roll forming stations
- Added functionality and flexibility with the extra length & tooling of the TF machines
- Greater versatility of applications with comprehensive punching operations hydraulics cooling system
- Increased capacity and optimisation with optional strong axis trusses and integrated analysis software
TM300iT - Compact, optimised, high production, roof truss solution

Ideal system for:

- Large scale roof projects
- Integrated with FRAMECAD® build and design solution to existing international standards

Benefits:

- Value engineering, software incorporates light gauge steel building codes and will output calculations as required for environmental considerations such as cyclonic, fire, and seismic
- Reduce overhead costs, requires small factory space, with a very high output delivery
- High volume, typical production output 700m/hr (2,300ft/hr). Up to four (4) times faster production than competitors
- Increase margins by manufacturing trusses up to 30% faster than wood
- As the system is automated, your steel trusses will be consistently accurate to within ±0.5mm every time for quick and easy assembly
- Greater accuracy & increased production speeds with high speed servomotors and controllers
- Optimised material use for roof systems with strong axis orientation profile and specialised punching
Multi-Profile Manufacturing Systems

FRAMECAD® ST800iT

Ideal system for:
- From 1 to 6 storey construction
- Residential
- Light commercial
- Heavy high walls
- Heavy trusses
- Heavy flooring
- Short span floors

Benefits:
- Equipped with FRAMECAD®'s online applications (MyFRAMECAD®) and Internet and WiFi capabilities which is designed to deliver greater efficiencies to your business
- Designed for on-site construction flexibility
- 100% USA designed and built to USA quality standards
- Comprehensive range of common FRAMECAD® spare parts for ease and speed of maintenance and servicing
- Offers full framing capabilities, with 6 frame and truss tooling punches and 4 profile options.
- Flexible building system with four profiles which enable a wide range of construction options
- Can be included as part of 40ft FRAMECAD® mobile factory
**FRAMECAD® ST900iT**

**ST900iT - Multi-profile solution for flooring and framing construction**

**Ideal system for:**
- 1 to 6 storey construction
- Heavy high walls
- Heavy trusses
- Heavy flooring
- Short span flooring

**Benefits:**
- Fully integrated with FRAMECAD®’s world leading engineering and detailing software. Greater value engineering & cost efficiencies with optimised profiles
- Equipped with FRAMECAD®’s online applications (MyFRAMECAD®) and Internet and WiFi capabilities, it is designed to deliver greater efficiencies to your business
- Designed for on-site construction flexibility
- Comprehensive range of common FRAMECAD® spare parts for ease and speed of maintenance and servicing
- Offers full framing and flooring capabilities, with up to 4 profile options and tooling to specifically enable the production of light steel flooring profiles
- Flexible building system with four profiles which enable a wide range of construction options for residential and commercial applications
- Can be included as part of 40ft FRAMECAD® mobile factory
- Heavy duty 3T decoiler

```
FRAMECAD®’s technologically advanced manufacturing solutions produce cost-effective, lightweight steel framing components quickly and efficiently.
```

---

FRAMECAD®’s technologically advanced manufacturing solutions produce cost-effective, lightweight steel framing components quickly and efficiently.
FRAMECAD® ST1000 - ST1200

ST1000-ST1200 - Multi-profile heavy duty & versatile manufacturing solution

Ideal system for:

- Low, mid and high rise buildings
- Mass housing
- Offsite transportable, modular & pods
- Educational buildings and hospitals
- Warehouses / storage
- Large scale partitioning

Benefits:

- Greater flexibility & versatility with multiple profiles from 50mm (2”) to 300mm (12”)
- Reduced labour costs & increased production capacity with advanced, automatic, servo-adjusted roll forming bed, allowing quick & seamless changeover of profile sizes
- High load applications for industrial, commercial and residential segments with heavy duty gauge capacity up to 2mm (14g) TCT thickness
- More up-time with precision auto gauging between coil thickness
- Real time assembly in line with production through automatically adjusting rollers from “C” to “U” (stud to plate)
- Minimise waste & optimise material use through innovative pre-shear and control software
Other Manufacturing Systems

FRAMECAD® FB150i

FB150i - High production, optimised dual profile roof & ceiling battens (Purlins)

Ideal system for:
- Roofing systems for residential and commercial
- Thermal cavities
- Leveling surfaces

Benefits:
- Supports a wide range of external and internal cladding systems such as concrete tiles, steel sheeting, fibre cement, MGO board, and plasterboard
- Greater value engineering & cost efficiencies with optimised profiles
- Greater acceptability, internationally recognised profiles with supporting span tables
- Improved factory output & increased return on investment within a very short time with high speed productivity
- Real time assembly in line with production through automatically adjusting rollers from “C” to “U” (Stud to Plate)
- Better material handling with safety edges and knurling
**FRAMECAD® FL650**

**FL650 - Deep C flooring system, ideal for webbed and C floor joists**

**Ideal system for:**
- Webbed floor Joist, using an 89 or 150mm C profile
- Deep C floor Joist, using a 250 mm or 300mm C profile

**Benefits:**
- High speed production of floor joists
- Accurate production of steel floor joists, pre-punched fixing tabs and service holes
- Suitable for high volume construction of residential and multi-storey buildings
- Output 440 to 1200m/hr
- Gauge 1.2 to 2.0mm
- Standard profile 250mm
- 200mm and 300mm options available
- Less labour required for assembly
- Less screw joints, meaning reduced “squeaks”
- Faster erection time on site
- Less ceiling height (where height is critical), which sometimes results in reduced bridging (bracing)
- No need for blocking between joists at ends. The rim joist takes care of that
- Rim joist provide larger surface area to screw wall cladding
FRAMECAD® Services

Commissioning
All FRAMECAD® manufacturing systems are commissioned on-site by our technicians ensuring our client a perfect start. FRAMECAD® will ensure the client is fully operational and confident to use FRAMECAD® system at the commissioning stage.

Scheduled Equipment Servicing
FRAMECAD® has a global team of highly skilled technicians who service FRAMECAD® equipment. You can choose to have FRAMECAD® technicians service your equipment through one of two ways:

Scheduled Equipment Servicing Contracts. Available in 1 to 5 year plans, this plan means that expert FRAMECAD® technicians come on to your site and carry out our scheduled servicing, when your equipment needs it most.

Fixed Price Equipment Servicing. FRAMECAD® offers one-off fixed price equipment servicing. Your FRAMECAD® technician or FRAMECAD® staff can quote you a fixed price today for your equipment, regardless of its servicing history.

Training Programmes
FRAMECAD® has developed a series of valuable training courses ranging from software, manufacturing, to erecting light steel frame construction projects. FRAMECAD® training can be delivered in-house or on-site depending on your needs.

FRAMECAD® expert technicians come on-site to ensure a high quality commissioning and regular equipment servicing to protect your investment.
FRAMECAD® Mobile Factory

The FRAMECAD® Mobile Factory can easily be fitted with either the FRAMECAD® F325iT, F450iT or FRAMECAD® TM300iT machines.

FRAMECAD® rapid deployment, purpose built mobile factory

Ideal system for:
- Rapid deployment projects
- Projects in remote locations
- On-site construction
- Disaster relief and reconstruction

Benefits:
- Rapid & easy deployment. Typically into production within 4-6 hours from arrival with fully self-contained factory with all functioning components housed within the container
- Optimised material handling & flow with customised layout & designer container
- Dedicated power supply with built-in, self-contained diesel generator
- Ability to transport internationally with ISO certified container
- Safe transport & fast set-up time with machine and decoiler securely mounted
- Reduced noise & better temperature control with insulated walls and roof
- Optimal working environment with air-conditioning (heating & cooling) along with plastic curtains for front and side doors
- Various existing configurations to serve your needs
MyFRAMECAD

MyFRAMECAD is our cloud-based customer portal designed to provide you with tools and applications that enable you to better manage your business and improve your productivity.

Through MyFRAMECAD, you have access to features for account and FRAMECAD® product management, useful design and marketing resources, interactive engineering tools, and around-the-clock technical support through our FRAMECAD® Care platform.

MyFRAMECAD also includes My Production, our production reporting application, that gives you the data and insights to increase your production output, reduce downtime, improve workforce productivity and increase efficiency.

My Production allows you to turn production data into powerful business insights and enables you to optimise your production from anywhere in the world.

At FRAMECAD® we care about our customers and are continuously improving and developing new applications inside MyFRAMECAD based on your requirements and valuable feedback around the world.

We support our customers with online business tools and around-the-clock access to technical expertise.
Your business is about increasing profitability, efficiency and productivity. Our business is about enabling your business.

Behind FRAMECAD®’s leading combination of software, production and building products is a support team that encompasses design, engineering, construction and every aspect of automated manufacturing.

Our team of experts, worldwide leaders in their respective fields, provide you with the knowledge and advice you need for success, as well as the technology required to enable your business.

FRAMECAD® support our customers with a proven training system, consultants and around-the-clock access to technical expertise. Our unique combination of award-winning technology and personal services gives our customers confidence using the FRAMECAD® solution for construction around the world.

FRAMECAD® believes strongly in the principles of continuous improvement and reinvests substantially into on-going research and development. Regular customer interaction is considered an essential component of the development of the FRAMECAD® design and build system and is the basis for improvement projects.

Your business is about increasing profitability, efficiency and productivity. Our business is about enabling your business for success.
This document is current as at March 2016 and supersedes all previous versions.

The material in this document is provided for general information purposes only. Although all reasonable efforts have been made to ensure that the information is current and accurate as at the date of issue, the information provided is selective and may not be complete or suitable for your intended use or jurisdiction. No information in this document constitutes, or shall be relied upon as constituting, the giving of advice of any nature. Nor is any such information to be used as a substitute for specific advice from appropriate independent professional advisors in your jurisdiction regarding your particular facts and circumstances or as a substitute for compliance with the requirements of applicable regulatory authorities or laws. You should not act (or refrain from acting) based upon information provided by FRAMECAD® without independently verifying the original source information and, making your own independent assessment, with the assistance of appropriate independent professional advisors, regarding your particular facts and circumstances. FRAMECAD® makes no representation or warranty, express or implied, as to the accuracy, completeness or suitability for purpose, of any information in this document. To the extent permitted by law, FRAMECAD® accepts no responsibility to the recipient or any other person for any loss, damage, cost or expense (whether direct or indirect) incurred and arising out of or in connection with any use or reliance by any of them on the information in this document including, but not limited to, as a result of any error, omission or misrepresentation in any information or statement in this document. This limitation of liability includes but is not limited to incidental, special or consequential damages, damages for loss of business or other profits. Liability which cannot legally be excluded is limited to the maximum extent possible.

FRAMECAD® Ltd, logos and Trademarks are the property of FRAMECAD Ltd.

Copyright 2016 FRAMECAD® Ltd.

Reproduction of any part of this document is prohibited, except with the prior written consent of FRAMECAD® Ltd.