Sheltering the World One Module at a Time
Who is CMT?

Concrete Module Technologies Ltd. of Toledo, Ohio is reshaping the way people all over the world are thinking about residential and commercial construction. In a world that is fraught with natural disasters, CMT has developed a revolutionary technology for building strength and durability into any freestanding structure, while increasing the safety of its inhabitants and the longevity of the structure itself.

The Need

In today’s global climate, people of the world have witnessed earthquakes, tornados, cyclones, hurricanes, typhoons, and tsunamis that have not only claimed the lives of the thousands of inhabitants of these regions, but also the structures in which they live and work. Billions of dollars in damage has been caused and countless hours have been spent during the rebuilding process.

Think about a world where this destruction could be lessened. Now think about a technology that could be harnessed to, not only rebuild stronger than before, but with limited investment in the raw materials. With the media constantly recounting the lives lost in these natural disasters and the mounting dollars spent to rebuild, wouldn’t it be great to report a news story about a way to help those in need of safe and strong places to live and work?

Excited about the possibilities? So were we. If you think that the world could be a better, safer place to live now, just wait until you read more about what we have to offer. Most people are told to think outside the box. We decided to make them a stronger one before they stepped out of it.

1. In the United States, about 40,000 tornadoes have occurred in the last fifty years, causing roughly 25 billion dollars in damages.
2. It is estimated that there are 500,000 detectable earthquakes in the world each year. 100,000 of those can be felt, and 100 of them cause damage.
3. By the year 2030, an additional 3 billion people, about 40 percent of the world’s population, will need access to housing. This translates into a demand for 96,150 new affordable units every day and 4,000 every hour.
4. According to NASA, about 85 hurricanes, typhoons and tropical cyclones occur worldwide each year.

What We Do

CMT has developed a patented technology to provide a concrete module system that has become the backbone for safe and affordable housing and office space anywhere in the world.

Instead of framing the structure with conventional wood studs and joists, we developed a concrete module around which any structure could be finished. Our modules are formed by first placing a reinforced, steel cage into a mold of our unique and patented design. Roughly 3.2 yards of concrete is then poured into and around the mold to create a box-like structure with walls only three inches thick.

When removed from the mold, the steel reinforced and hardened concrete module is 6 ½ tons and is fireproof, insect resistant and ideal for applications in areas prone to natural disasters such as hurricanes, earthquakes, and tornados. Each module provides approximately 100 square feet, or approximately 9 square meters of interior floor space. The module consists of a concrete floor, ceiling, and 2 to 3 sidewalls. Openings for windows, doors, plumbing, heating and cooling ducts, lights, switches and outlets along with all electrical conduit are cast into each module produced.

After being securely extracted from the mold, each module is inspected for any structural or cosmetic inconsistencies before being certified to transport to the build site. Each module is easily transported and complies with legal “over-the-road” size and weight regulations. While structural tolerances in construction are critical, we use our patented forms and molds to insure consistency and strict conformity in each module we produce. Using our technology, architects and builders can now erect cost efficient structures with floor loadings of up to 100 pounds per square foot. Our global design and process now meets the strength-to-weight requirements for stacking and joining of concrete modules for habitation within the US and many foreign countries. Each module can stand alone, or be stacked 10 high to erect many different types of structures within limitless designs.

Once transported to a job site, each module is set into place on a series of piers, crawl space or full basement. Stick framing can then be used to enclose the remaining wall openings and, if needed, be used to complete a pitched roof. Local skilled tradesmen then work to install the remaining components such as exterior wall covering, roofing, interior wall coverings, flooring, light switches, plumbing fixtures, cabinetry and any other final cosmetic finishes. The end result is a residential or commercial structure that anyone would be proud to call their own.

CMT modules can be produced anywhere in the world, in volume and of standard size and weight. As such the cost and quality of each module can be strictly controlled. We are excited about the possibilities and we hope that you are as well. If you are an out-of-the-box thinker like we are, we look forward to talking with you more about strengthening your home or office before stepping out of it.
Many Diverse Uses

The two most important commodities in the world are food and housing. Our revolutionary technology can help provide a suitable home for everyone in the world!

Commercial Applications
- Schools
- Hotels
- Hospitals
- Health Care Clinics
- Food Markets
- Dormitories
- Office Buildings
- Mini-Warehouses
- Utility Vaults
- Storage Facilities
- Retail Outlets
- Correctional Institutions and Jails

Residential Applications
- Third World Housing
- Affordable Housing
- First Time Home Buyer
- Retirement Communities
- Upscale Housing
- Apartment Complexes
- Hostels

These are the building blocks of a truly revolutionary building concept that meets the most basic of human needs now and far into the future.