

TIER 1 ENGINEERING & CONSTRUCTION GROUP LTD

T1-SERIES JUMP FORM

A modular jump-form system for high-rise concrete cores

A fully modular, reusable jump-form platform engineered from the ground up for safe, efficient high-rise core construction. Built on a lineage of predecessor deployments across the UK, UAE, Canada and Australia — redesigned for modern towers.

90–98%

REUSABLE COMPONENTS

5 + 20 kPa

GENERAL + LOCAL LOADING

120 mm

SLIMLINE SHUTTERS

4

COUNTRIES OF PREDECESSOR

THE SYSTEM

ONE ENGINEERED PACKAGE.

The T1-Series integrates modular formwork, working decks and perimeter protection into a single reusable platform for concrete-core construction. Every component is a standard catalogue item with fixed connection details – any core geometry is built from the same set of interchangeable parts. **90–98% of a typical system redeploys directly to the next project.**

01 · MODULAR

MODULAR BY DESIGN

Standard components fit any core geometry. 90–98% reusable catalogue parts. Bespoke adaptation only where unique conditions demand it.

02 · SAFETY

ZERO OPEN EDGES

Full perimeter cladding, integrated guardrails, stairs and mid-level decks. No secondary scaffold, no external edge protection required.

03 · LOADING

DESIGN FLEXIBILITY

5 kPa general + 20 kPa+ local stacking zones. Geometry adjusts for cranes, CPBs, rebar cages, MEP modules, pre-loaded stairs, cast-in nodes.

04 · SHUTTERS

SLIMLINE 120 MM SHUTTERS

Proprietary 4-bolt moment connections – no strongbacks. Full roller retraction with integrated walk-through shutter doors. No ducking.

05 · ACCESS

OPEN-PLAN CELLS

Space-frame braced columns replace conventional bracing – structure, vertical ladder access and mid-level decks combined. Full access to the formed face.

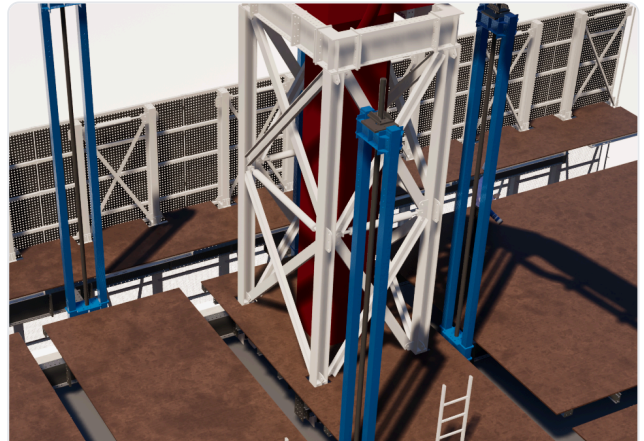
06 · DEPLOYMENT

RAPID DEPLOYMENT

Off-site pre-assembly of decks and sub-assemblies with just-in-time delivery. Shutter changes and wall-thickness adjustment without structural reconfiguration.



Open-plan cells with full access to the formed concrete face



Top deck – hatches, placing boom, integrated cladding



PREDECESSOR SYSTEM IN SERVICE — TORONTO

BEYOND THE FRAME

ADDITIONAL OPPORTUNITIES THE PLATFORM UNLOCKS.

The T1-Series is a jump form first. But the same engineered flexibility that makes the system modular and reusable also makes the platform capable of carrying more than formwork. Each of the below is an **optional extension** — designed in if the project wants them, out of the way if it doesn't.

01 · MEP

MEP INTEGRATION

Pre-fab module staging, cast-in nodes, riser preparation. Configurable deck hatches and side-loading platforms let MEP first-fix track the core climb instead of waiting for it.

02 · Lifts

JUMP-LIFT INTEGRATION

Jump-lift cell designed into the platform, climbing with the core. Personnel and materials landed at deck level — no dead zone between the top hoist and the working face.

03 · Crane

FRAME-MOUNTED CRANE

Top-deck loading (20 kPa+ local) engineered to carry frame-mounted cranes and concrete placing booms — an extra hook at the top of the tower, independent of the main crane.

04 · Verticals

VERTICALS & SCREENS

Sized to form the full floor plate of RC verticals — core, columns and shear walls — in a single climbing cycle. Protection screens hang from the frame, closing the edge to the floors below so façade installation can follow the climb.

DESIGNED IN, NOT BOLTED ON

Most jump forms can't carry the loads or accept the modules that these extensions require — so the conversation never happens. The T1-Series is engineered to allow it **by default**, so the project can use as much or as little of the platform's capability as it wants.

WORKING TOGETHER

A FLEXIBLE WAY TO ENGAGE.

Every project has its own starting point. Tier 1 engages on whatever footing suits the scheme, the supply chain, and the assets already in play – not from a fixed catalogue of options. A short technical discussion is the fastest way to find the right fit.

DESIGN & DELIVER THE FULL SYSTEM

End-to-end – concept through detailed design, procurement, fabrication oversight, site commissioning and ongoing support. The cleanest path where no existing platform is in play.

INCORPORATE YOUR EXISTING ASSETS

Already hold jump-form material? Tier 1 audits your yard and engineers the new platform to reuse as much existing steel as is economically viable – modular where it fits, bespoke where it needs to, new only where gaps remain.

DEVELOP YOUR OWN MODULAR PLATFORM

For formwork suppliers and in-house capability builders – work alongside your team to develop a platform-style modular jump form to the same engineering discipline as the T1-Series, tuned to your market and manufacturing base.

START THE CONVERSATION

Detailed technical documentation and the full IP Pack Overview are available under NDA. For early discussions, a short call or meeting is usually the quickest way to see whether there's a fit.

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