Tru-lift
The self lifting, core forming system from Forming Concepts Inc
Introduction

Tru-lift is the new self lifting, core forming system from Forming Concepts. Robust and efficient, Tru-lift has been designed for speed, forming up to 16’ - 6” in a single lift. Designed to minimize construction cycle times and maximize safety, Tru-lift’s fully boarded top platform is designed to carry the concrete boom and any additional materials required, ensuring everything is on hand as it is needed - important when forming at higher floors.

At Forming Concepts, we work with our customers to ensure we minimize cycle times, and as such can provide the option of pre-assembled panels upon delivery to site to minimize on site set up times. The service we provide is the result of over 60 years experience, so when you deal with Forming Concepts, you talk to people who understand the working environment, technical difficulties and challenges you face.

Features & Benefits

Complete system raised during the lifting cycle, maximizing system effectiveness.

All sizes of core walls can be accommodated, maximizing the versatility of the system.

Controlled lifting of equipment through use of hydraulics, eliminating crane time and maximizing safety.

Fully boarded working platforms create a safe working area.

Minimal number of components ensures quick & easy erection, maximizing construction cycle times.

Unique stripping corners allow the quick and easy release of wall formwork.

Trailing platforms allow remedial work to previous pours, maximizing efficiency.

Concrete placement from top working platform via ply hatches in the upper deck, maximizing safe working practices.

Reusable tapered tie system eliminating the use of sacrificial hardware, minimizing hardware costs.

External panels supported off overhead steel beams, easily retracted, providing safe access for panel cleaning & rebar placement.

Easy connection points for climbing system from inserts cast into the previous pour, speed for setting up next pour.
Lifted Position
With the form fully extended to its subsequent pour position, wall support brackets are bolted to inserts cast in with the previous pour transferring the weight of the formwork system to the wall support brackets.

Setting Position
Bolts securing the cylinder brackets to the wall are removed and cylinder & bracket retracted and bolted to inserts cast in with previous pour. Internal forms are cleaned and reset into position. External forms can be cleaned whilst retracted and steel fixing taking place.

Pouring Position
External forms are rolled back into pouring position. Ties and external yokes are installed and the concrete is placed through hinged hatches on the top platform.
Tru-lift Safety Features

Tru-lift has a range of both inbuilt and additional optional safety features to ensure the highest levels of safety are maintained at all times, including:

- Handrails
- Perimeter Screen
- Enclosed Ladders
- Inbuilt Stair Access
- Working Platforms

1. Handrails
   Full perimeter handrails to upper and lower platforms as well as internal hanging platforms for areas not fully covered.

2. Perimeter Screen
   Optional use of reinforced PVC sheeting, strong and puncture resistant, variable translucence allows 25 - 30% of natural light through, UV stabilized, welded loops at regular spacings for securing to the perimeter framework, fully printable and ideally suited for advertising, full enclosure providing the utmost in safety.

3. Ladders
   Full ladder access between platforms ensuring accessibility at all times during the various cycles.

4. Inbuilt Stair Access
   Optional using a modular stair access tower system supported off the internal platform allowing accessible egress/ingress from desired floor level below the self climbing system.

5. Working Platforms
   GTX Beams using Plywood as decking allows safe level working environment minimizing trip hazards and fully covering working areas.
Internal Form Hanger Bracket
Adjustable form support bracket head and clamp plates are bolted into wall support frame facilitating the connection to the overhead primary beam.

Trolley
Trolley designed to roll along lower flange of the overhead beam supporting the external form using fast threaded rod for vertical adjustment attached to brackets bolted to tru-beams.

Corner Yoke
External corners are easily tied between yoke blocks and bolted to horizontal channel walers using fast threaded rod.

Corner Pin
Corner Pin used to “strip” internal form by driving through offset holes and reversed for “reset”.

Internal Corner
Rigid, flexible and strippable corners are used depending on the core profile; however, where possible flexible internal corners are used in conjunction with corner pins eliminating the need to dismantle forms minimizing labour time between cycles.

Components

Outer Corner Assembly

Inner Corner Assembly
Jack Bracket
Supports and houses the hydraulic cylinder. Jack Brackets are bolted into inserts cast in with the previous pour and designed to support the formwork system during the lifting sequence. Brackets remain fixed to the hydraulic cylinder during retracation and relocation to the subsequent lift.

Wall Bracket
Brackets are bolted into inserts cast in with the previous pour and connected into the wall support frame supporting the formwork system once in the lifted position. Threaded bar forming part of the support system allows finite adjustment for leveling the form if necessary.

Walkway Bracket
External hanging walkway bracket is bolted to the overhead beam system, designed to hang below the bottom of the formwork system to facilitate in retracting forms, steel reinforcement fixing and cleaning of the forms. Walkway Brackets are designed to be used in conjunction with GTX Beams and plywood sheeting creating a level and hazard free working platform.

Internal Trailing Platform
Internal platforms are designed to be support from overhead steel work and can be decked out to cover the entire opening or allowing sufficient room to access ties, stripping corners and hydraulics.

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Wall Mounted Jack Bracket
Brackets are bolted into inserts cast in with the previous pour and designed to support the formwork system during the lifting sequence. Brackets remain fixed to the hydraulic cylinder during retracation and relocation to the subsequent lift.
Our policy is one of continuous improvement and we reserve the right to change, alter or modify any detail, design, weight, dimension or code without prior notice being given.

Tru-lift - Issued August 2009

The arrangements of equipment shown in photographs may have been assembled by others and therefore not reflect current best working practices or legislation requirements.