

MOVING PRODUCTION FORWARD



ABOUT US

Forsell Systems is a Swedish company with nearly 50 years of custom machine building behind it.

WHAT WE DO

We develop and sell machines and systems for prefabricated house production, from carts pulled by hand to fully automatic assembly lines. The products cover different parts of the work in a house factory: moving modules, handling elements, storage, access and finishing.



OUR HISTORY

Arne Forsell founded Bergsbyns Mekaniska Verkstad outside Skellefteå in northern Sweden in 1977, building machines that could not be bought anywhere else. His son Jörgen grew up in the workshop and built his own solutions early on. The company was later renamed Forsell Maskin, and Jörgen took over from his father. Today Jörgen runs the company with his son Linus. More than 250 machine builds have been delivered since 1977.

OUR FOCUS

Over the past decade the focus has been on house factories, and the machines and systems built for them have become a product line of its own. Forsell Systems was founded as a spin-off from Forsell Maskin to develop and sell these products.

CUSTOMERS

Factories using our machines and systems include Lindbäcks, BoKlok and Podcomp in Sweden, Volumetric Building Companies in California, United States, and Eastcut in Nova Scotia, Canada.

PRODUCT CATEGORY

MODULE HANDLING

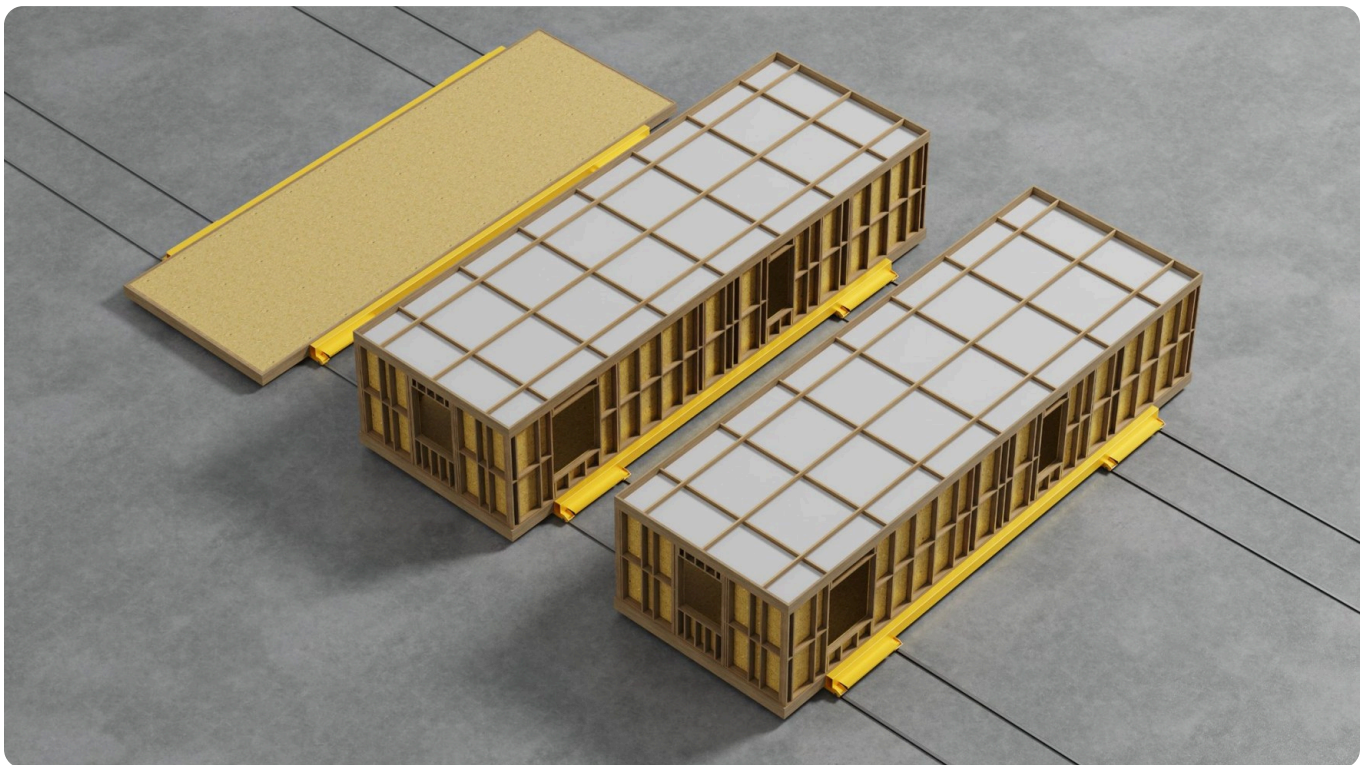
For moving and working with modules in prefabricated house production.

SKATE SYSTEM

A manual, low-cost system for moving house modules forward. Modules move along a floor-mounted rail system on trolleys, pushed manually for a simple operation. Suitable for production where a simple, cost-effective solution is wanted.



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EASY MODULE LIFTING.

The module rests on two floor beams, so it can be lifted straight off the trolleys for transfer or loading.

CONFIGURED FOR YOUR PRODUCTION.

The rails are tailored to your factory layout, and can be built with 90-degree turns.

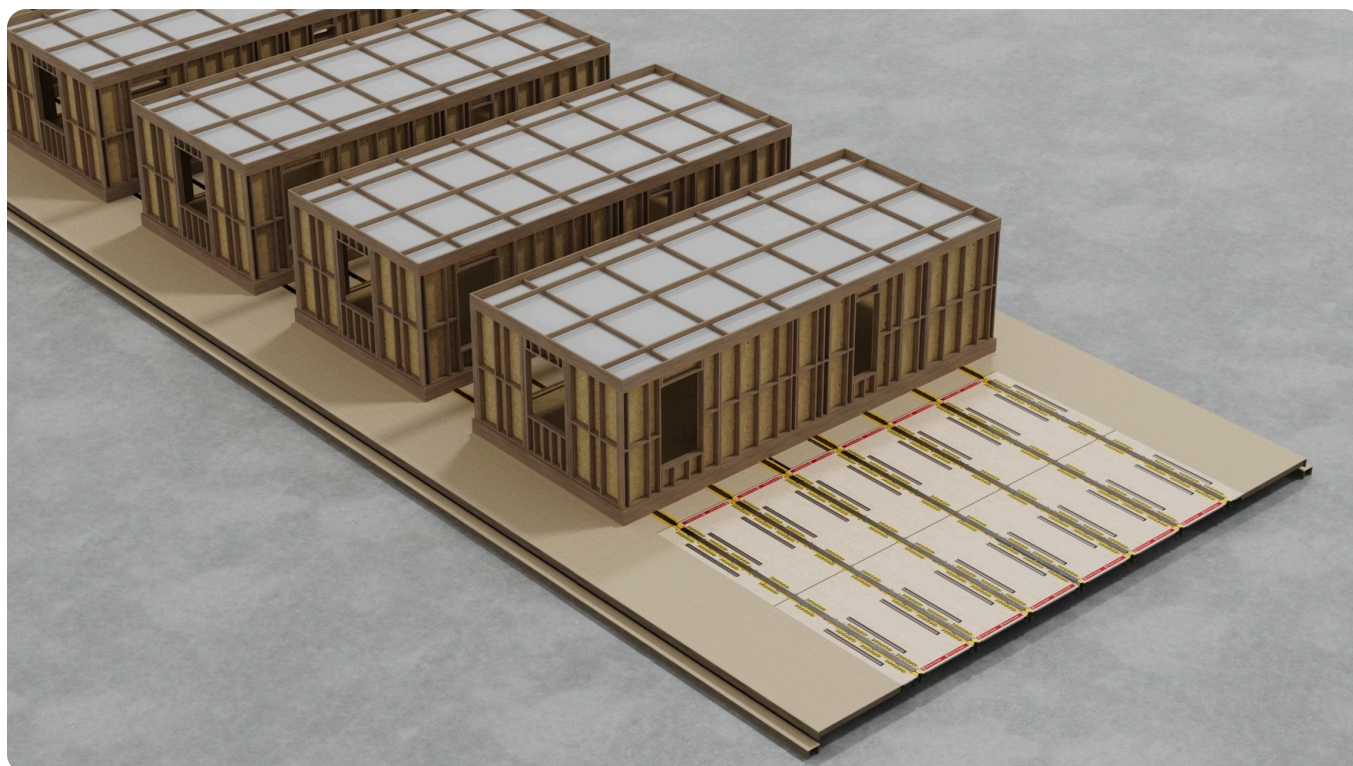


BEAM SYSTEM

An automatic assembly line that moves house modules forward. Beams push all modules simultaneously along the line. Suitable for high-volume production where a higher level of automation is wanted.



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CONFIGURED FOR YOUR PRODUCTION.

The stations, tracks, and layout are all tailored to your modules and volume.

SAFE AND COLLISION-FREE.

All modules move together in a straight linear motion. No risk of collisions or module damage.

TWO VERSIONS

Beam System **SEMI-AUTOMATIC**

Beam pushers drive the beams forward automatically, and the modules standing on them advance together. Beams are returned manually using a forklift.

Beam System Auto **FULLY AUTOMATIC**

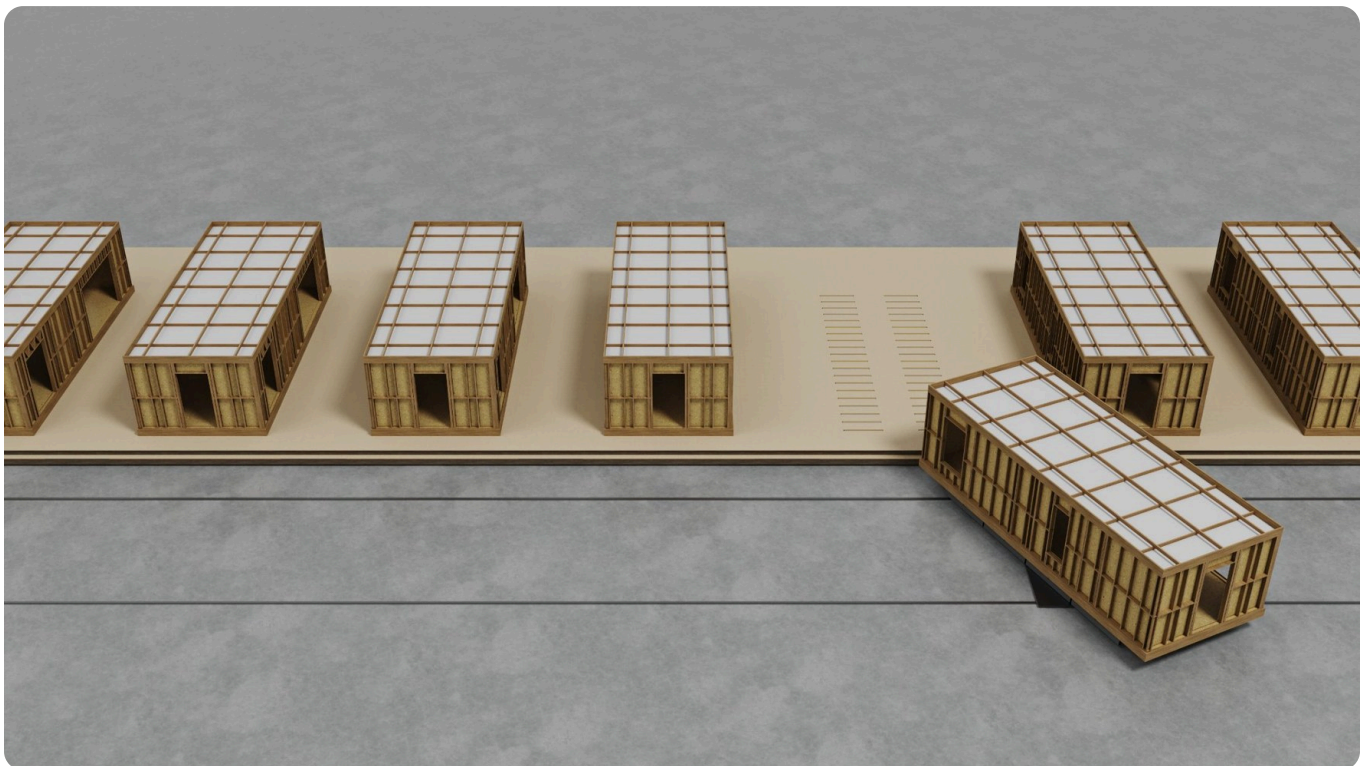
Same system as Beam System, but beam returners bring the beams back automatically, with no manual handling by forklift.

FLEX SYSTEM

A flexible system that handles house modules of varying size and production time. A trolley carries each module to a station, where it can be worked on at its own pace, without holding up production. Suitable for production with a varied product mix, where flexibility is needed.



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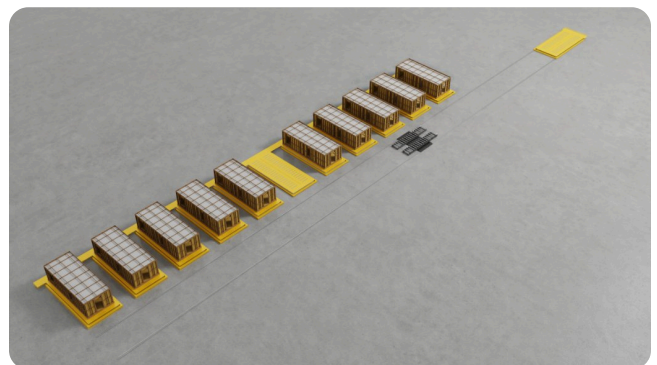


CONFIGURED FOR YOUR PRODUCTION.

The number of stations and the rails are tailored to your factory layout and the modules you build.

OWN STATION FOR EACH MODULE.

Each module is driven into its own station to be worked on, and out again independently of the other modules.



PRODUCT CATEGORY

VERTICAL ACCESS

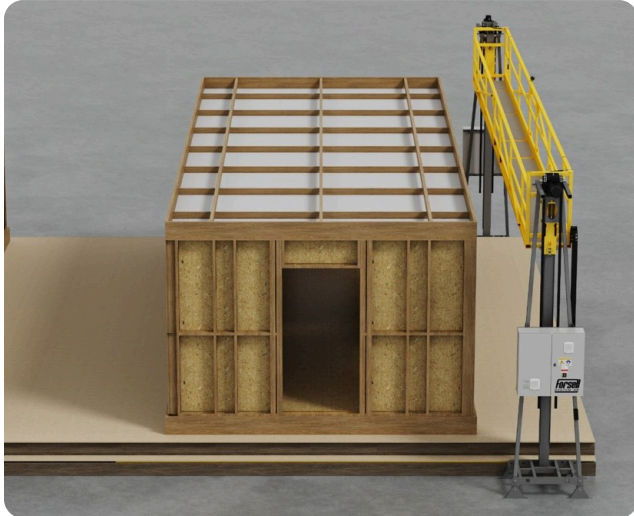
For vertical access in prefabricated house production.

VERTIACCESS

A work platform for safe, ergonomic vertical access. Operator and material are raised to the right working height for different operations in production.



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ROOM FOR PEOPLE AND MATERIAL.

One platform takes both up to the right working height.

ERGONOMIC WORKING HEIGHT.

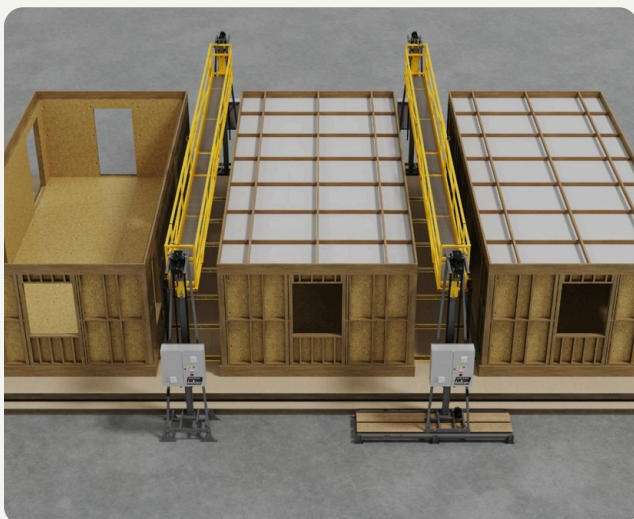
Minimizes repetitive strain and improves operator comfort throughout the work shift.

VERTIACCESS RAIL

An adjustable work platform for safe, ergonomic vertical access on house modules. The platform raises operator and material and can be driven in on a floor rail to reach the right working position on modules of different sizes.



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VERTICAL AND HORIZONTAL ADJUSTMENT.

The system adapts to different module sizes and working positions.

SAFE WORK AT HEIGHT.

A stable work platform reduces the risk of falls and injuries.



PRODUCT CATEGORY

ELEMENT HANDLING

For handling, working and transporting walls, roofs and other elements in prefabricated house production.

VERTITRACK

A modular system for working on elements in a vertical position. Elements stand on carts, and the system also serves as buffer and storage.



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ACCESS FROM BOTH SIDES.

Elements stand vertically, making it easy to work on both sides of the element.

EVERY ELEMENT TYPE AND SIZE.

The same system handles interior walls, exterior walls, and other elements.



VERTITRACK FINISH

A modular system for filling and painting elements in a vertical position. Elements stand on carts and move through a filling station and an enclosed paint booth.



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CONTROLLED PAINTING ENVIRONMENT.

Painting in an enclosed paint booth gives even application and consistent quality on every element.

ONE CONTINUOUS FLOW.

Elements stay on the same carts from filling to painting, with no re-handling between steps.

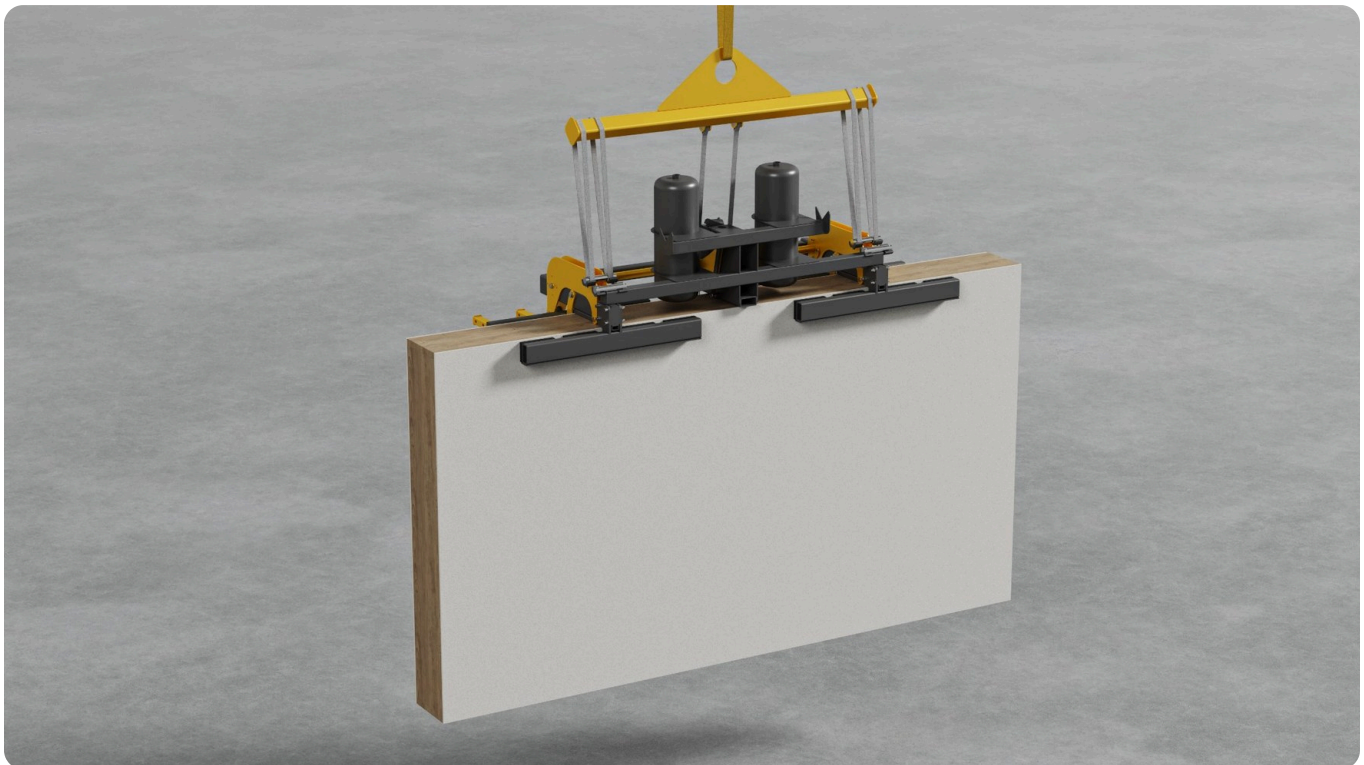


VERTILIFT

A clamping lift yoke that can lift elements from both a lying and a standing position. Handles walls, roofs, and other elements without the need for straps or manual handling.



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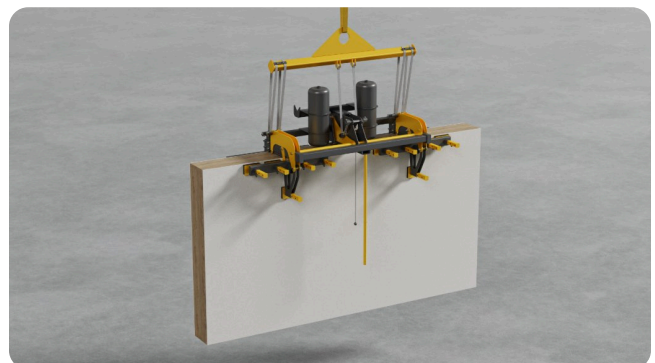


ONE SYSTEM FOR EVERYTHING.

Can be used in the factory, during loading and unloading, and on the construction site.

ADJUSTS TO ELEMENT WIDTH.

The clamp automatically grips elements across a wide range of widths.



VERTISTORE

A vertical storage system for interior and exterior walls. A sorting robot places and retrieves them with full control over the order.



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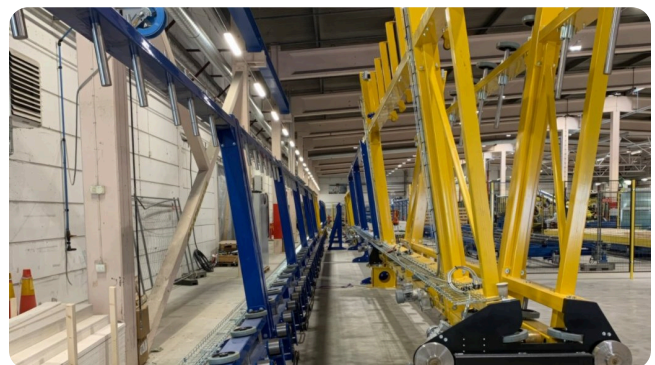


HANDLES ALL WALL TYPES.

Stores interior and exterior walls in the same system, regardless of size.

SPACE EFFICIENT.

Vertical storage saves factory floor space compared to horizontal alternatives.

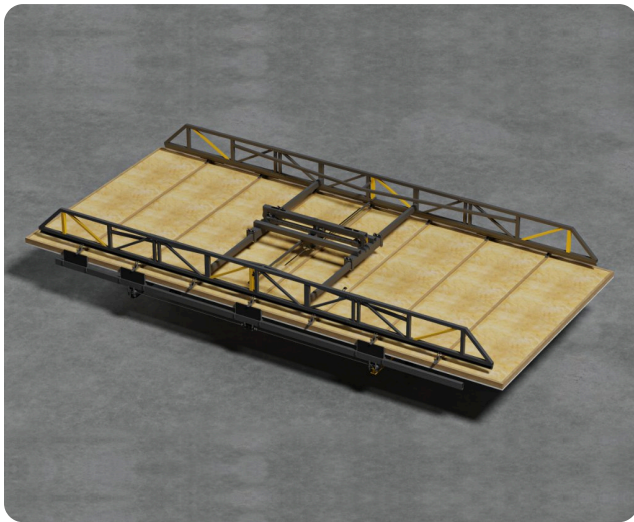


CASSETTE LIFT

A lift yoke that lifts roof and floor cassettes in a lying position during house module assembly. The yoke adjusts to the size of the cassette.



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ADJUSTS TO THE CASSETTE SIZE.

The yoke is adjusted in width to fit different cassettes, and can lift both roofs and floors.

SECURE GRIP.

Support irons are fastened to the cassette and hook onto the yoke, providing a stable and controlled lift.

CASSETTE CART

A cart for transporting roof and floor cassettes. The cart is pulled by hand and adjusts to the size of the cassette.



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ADJUSTS TO THE CASSETTE SIZE.

The cart is adjusted manually to fit different cassettes, and can transport both roofs and floors.

PROTECTS THE UNDERSIDE.

The cassette rests on the support irons and center supports, so the surface never takes any load during transport.



PRODUCT CATEGORY

TILING

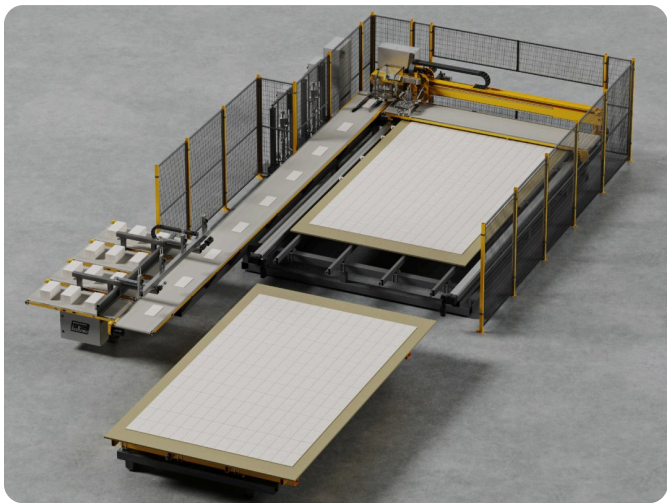
For automatic tiling of walls, floors and other elements
in prefabricated house production.

MODUTILE

An automatic tiling system for applying adhesive and laying tiles on wall, floor, and other elements. Handles various patterns and sizes with high precision. The system replaces slow, manual tiling and delivers consistent quality.



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AUTOMATED TILING.

Increases capacity and delivers consistent quality on every element.

EVERY TILE PLACED RIGHT.

A vision system ensures correct placement.

FLEXIBLE PATTERNS AND SIZES.

The system handles tiles from 100 × 100 to 600 × 600 mm in various patterns.

OPTIONAL DRYING STATION WITH 10 SLOTS.

A separate unit where the elements finish drying ahead of the next step.

CYCLE TIME PER TILE

2.5 sec
100 × 100 mm

3 sec
200 × 200 mm

5 sec
300 × 300 mm

7 sec
400 × 400 mm

9 sec
500 × 500 mm

11 sec
600 × 600 mm



CUSTOMER REFERENCES

SWEDEN

LINDBÄCKS

We have delivered several machines to Lindbäcks, Sweden, both to their old factory in Öjebyn and to their new factory in Haraholmen. Our system for filling and painting ceilings won Lindbäcks' award for best machine investment in the SEK 5–15 million category.

They also bought three of our standard products: a filling and painting line for elements, a lifting yoke for elements, and an adjustable platform for vertical access on house modules.



SWEDEN

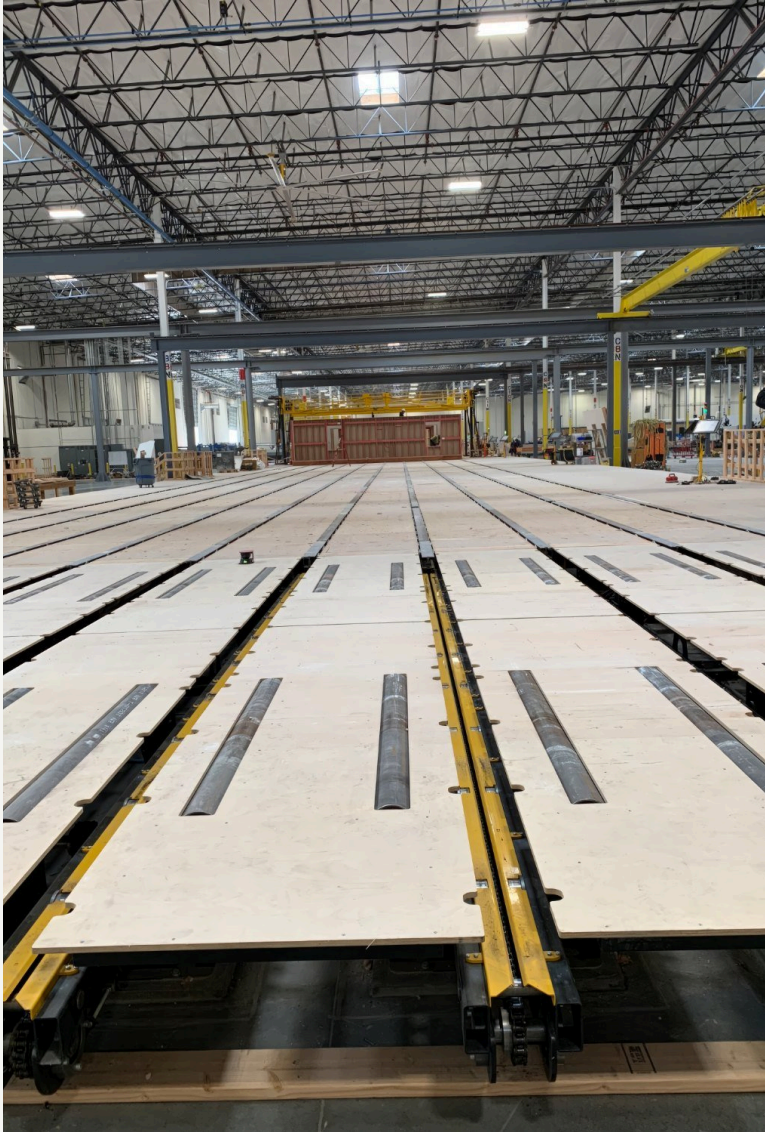
PODCOMP

Podcomp, Sweden, a Lindbäcks subsidiary, makes prefabricated bathroom pods. We have delivered our tiling system to their factory in Piteå. It applies adhesive and lays tiles on walls in a lying position.

UNITED STATES

VOLUMETRIC BUILDING COMPANIES

In 2022 we delivered our fully automatic assembly line to Volumetric Building Companies' factory in Tracy, California. It moves modules through production and took six months from order to delivery. They also bought our adjustable platform for vertical access on house modules.



SWEDEN

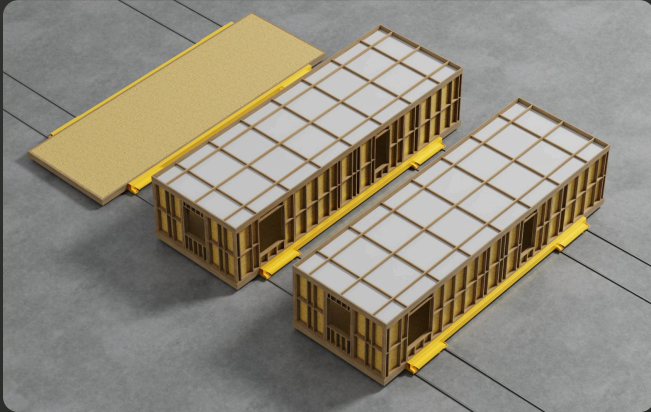
BOKLOK

In 2020 we delivered our fully automatic assembly line to BoKlok's factory in Gullringen, Sweden. It moves modules through production. They also bought three of our standard products: a lifting yoke for elements, a vertical storage system for walls, and an adjustable platform for vertical access on house modules.



LINE OR STATION

3 WAYS TO ASSEMBLE MODULES



LOW AUTOMATION

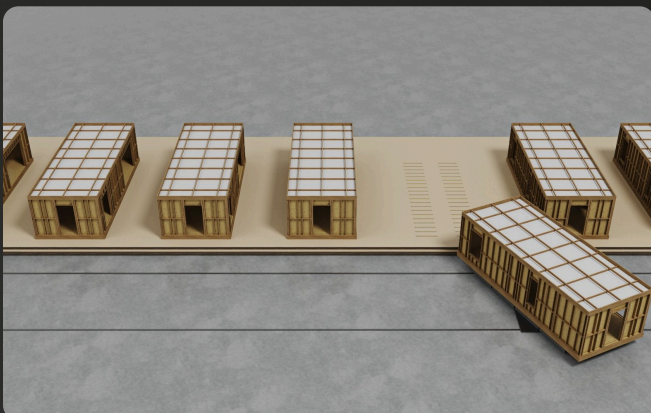
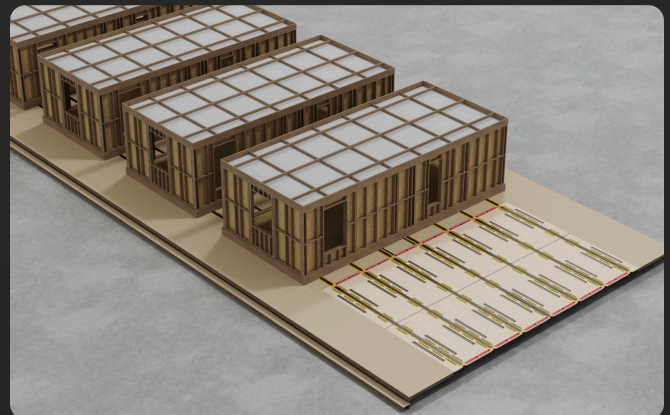
A manual assembly line, where modules are pushed forward by hand.

Suitable for: Production where a simple, cost-effective solution is wanted.

HIGH AUTOMATION

An automated assembly line, where beams push all modules forward at the same time.

Suitable for: High-volume production where a higher level of automation is wanted.



FLEXIBLE

A flexible setup, where each module is completed in one station at its own pace.

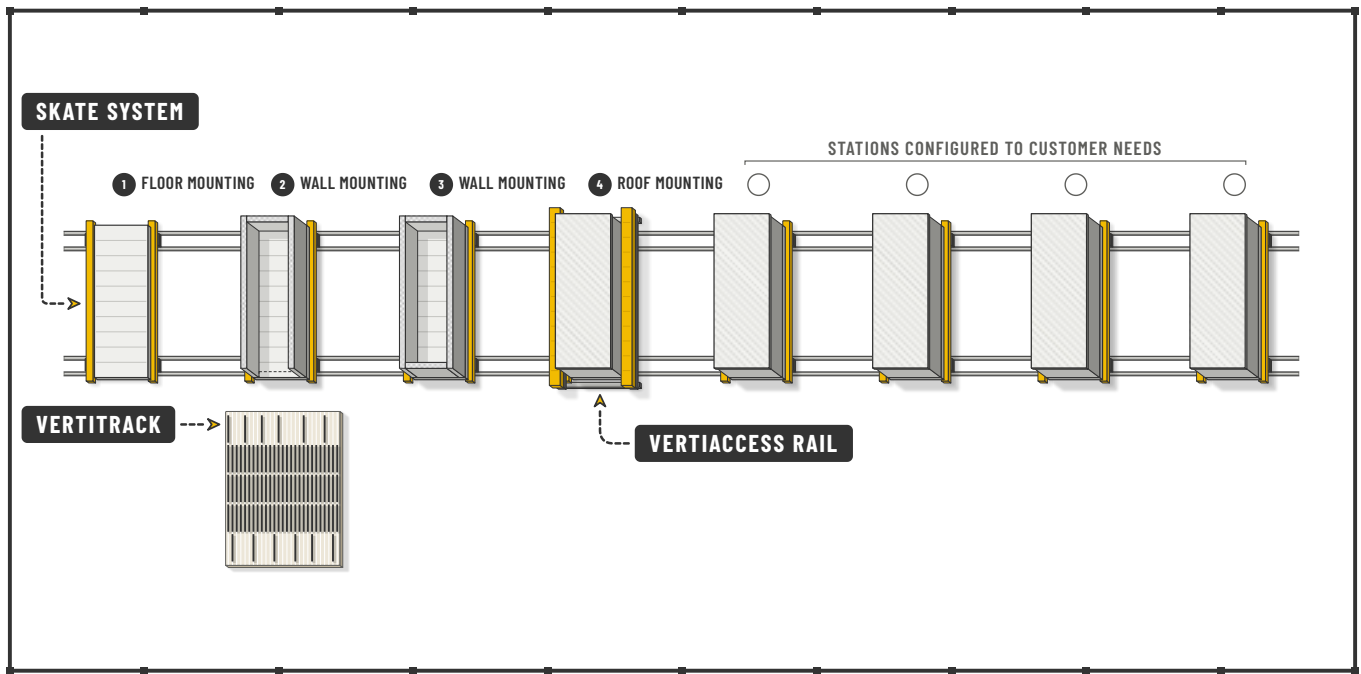
Suitable for: Production with a varied product mix, where flexibility is needed.

LOW AUTOMATION

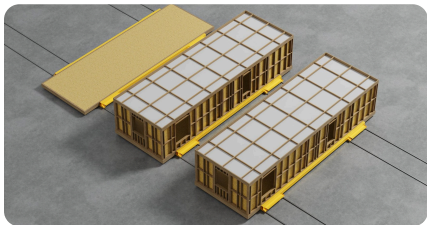
A simple, cost-effective assembly line, where modules are pushed forward by hand.

HOW IT WORKS.

Modules move between stations on trolleys and are pushed forward by hand when the work at each station is done. Walls wait in a buffer beside wall mounting, and adjustable platforms beside the line give vertical access for roof mounting.



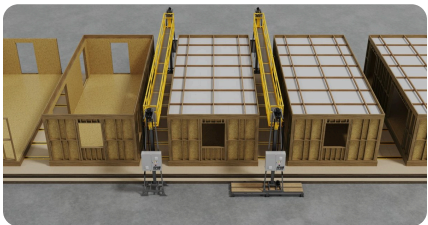
PRODUCTS IN THIS SETUP



SKATE SYSTEM



VERTITRACK



VERTIACCESS RAIL

HIGH AUTOMATION

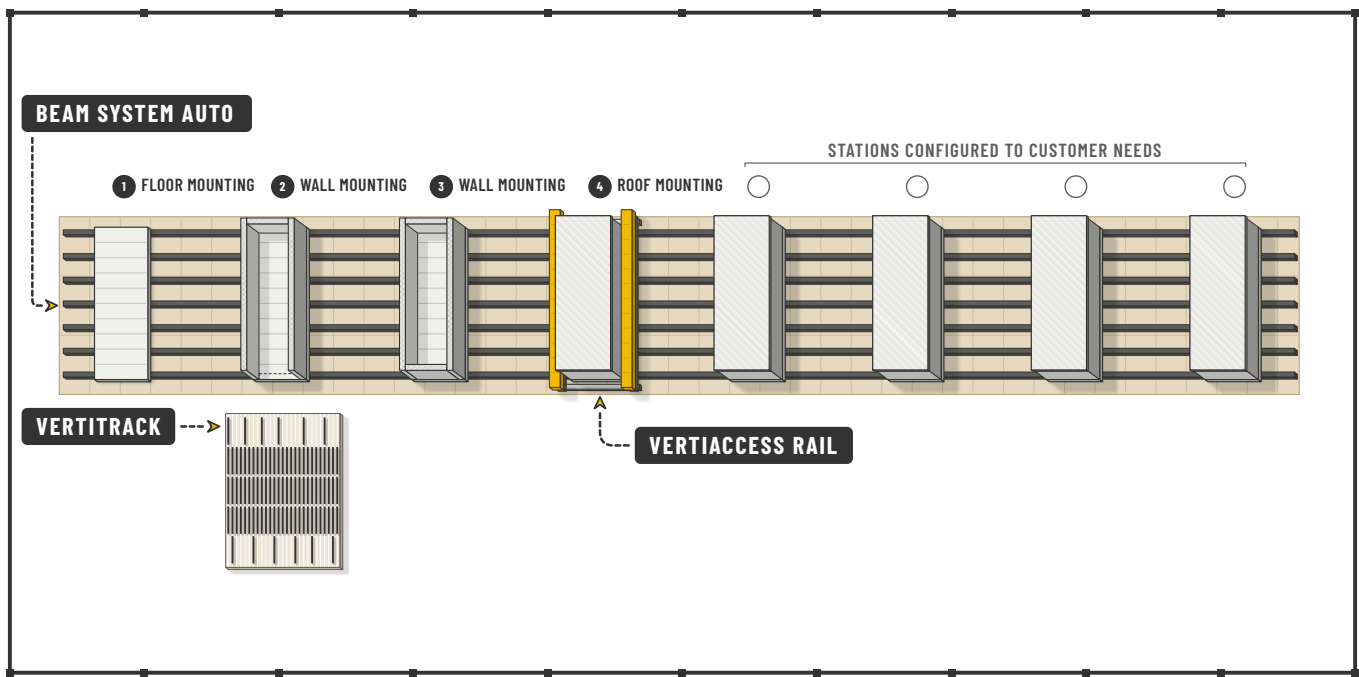
A fully automatic assembly line, where beams push all modules forward at the same time.

HOW IT WORKS.

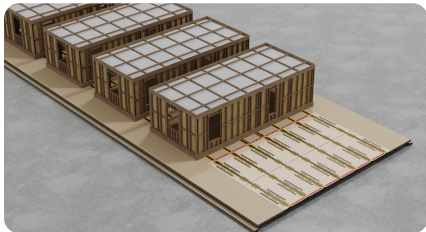
Beams push all modules one station forward at the same time, and are returned beneath the floor. Walls are buffered beside wall mounting, and adjustable platforms beside the line give vertical access for roof mounting.

AN EVEN PACE.

All stations work to the same takt, which suits standardised production with fewer product variations.



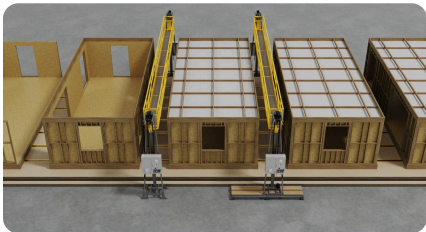
PRODUCTS IN THIS SETUP



BEAM SYSTEM AUTO



VERTITRACK



VERTIACCESS RAIL

FLEXIBLE

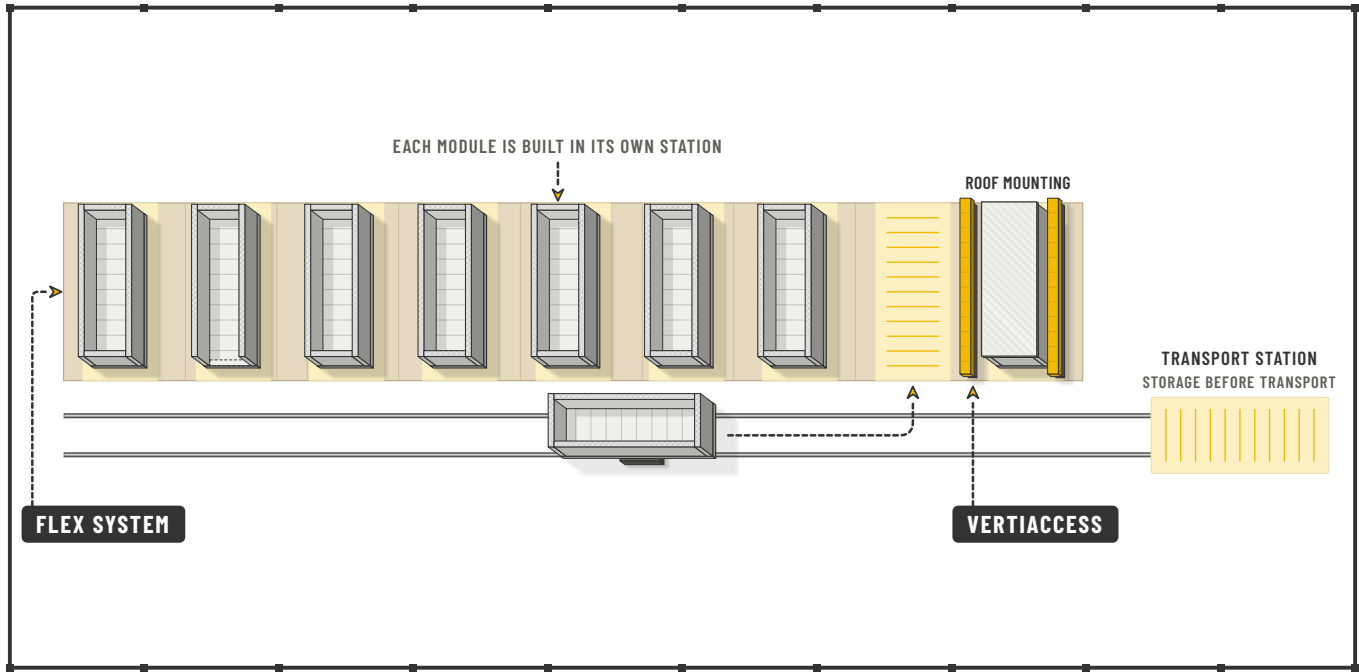
A flexible setup, where each module is completed in one station at its own pace.

HOW IT WORKS.

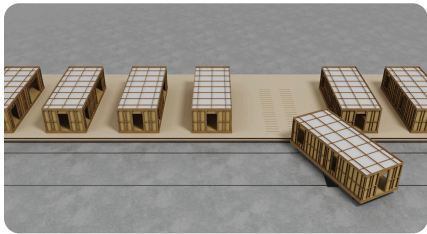
A trolley carries each module to a free station, where it is built at its own pace. Finished modules wait at a transport station at the end of the line.

NO BOTTLENECKS.

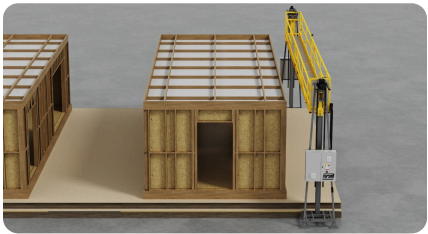
A module that takes longer to build does not hold up the others.



PRODUCTS IN THIS SETUP



FLEX SYSTEM



VERTIACCESS

