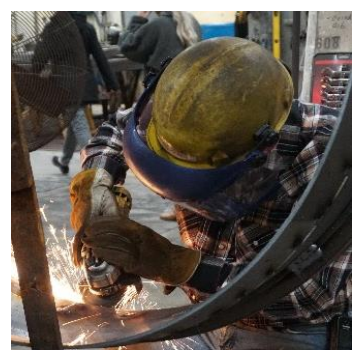




PCI Gulf South Meeting
F. Scott Dull, PE



Who is Afinitas

- We support pipe and precast concrete product production companies with innovative production equipment and automation solutions.
- Company formed by the acquisition of several companies.
 - Spillman
 - New Hampton Metal Fab
 - Hawkeye Pedershaab
 - BFS
 - CAM Products
 - Amifast
- We supply equipment, automation and consumables to the Precast Industry
 - Casting tables, beam and column forms
 - Various forms for underground construction (manhole, boxes, etc.)
 - Dry cast pipe plants
 - Automated wet cast plants (PRIMA)
 - Reinforcement spacers both steel and plastic
 - Various lifters, anchors, inserts, recess formers, shear bars, etc.
 - Partner with Weckenmann in the US



How to overcome current challenges in your precast plant

5 automation solutions for mastering bottlenecks in production and gaining a competitive advantage

July 2022 | Weckenmann Anlagentechnik GmbH & Co. KG

CONSTRUCTING THE FUTURE

WA
WECKENMANN

Agenda

Weckenmann: company presentation

Status quo: today's challenges in concrete precast production

5 automation solutions: how to gain a competitive advantage

Bucket conveyor

Concrete spreader

CPO machine

Helicopter troweling machine

Reinforcement machine / Utility cart

Questions and answers

Weckenmann: with joined forces to individually tailored and efficient solutions

■ **Company data**

Year of foundation: 1957
Location: Southwest of Germany near Stuttgart and Black Forest
Employees: 150
Customers: worldwide

■ **An international technology leader**

Weckenmann is specialist for precast concrete plant technology and is one of the most sought-after partners among precast concrete manufacturers worldwide.

■ **Quality, customer orientation and innovation**

Weckenmann develops innovative ideas for turnkey customer projects, modernizations of machines and existing plants.

■ **All from one source: development, realization, service**

Through extensive technical know-how, Weckenmann offers complete solutions from a single source and accompanies its customers as a realization partner throughout the entire project phase and beyond.

■ **High manufacturing standards in 2 production plants**

For successful project implementation, our customers benefit from our broad product portfolio and our high degree of vertical integration.



f.l.t.r.: Wolfgang Weckenmann (Managing Director),
Thomas Klett (CSO), Martin Schatz (Managing Director)



Weckenmann headquarters in Dormettingen, Germany

CONSTRUCTING THE FUTURE

Status quo: today's challenges in concrete precast production loss in productivity and quality due to underused production capacities

How does the concrete get from the mixing plant to the formwork?

- By fork lifter
- By tucker built
- By crane



Status quo: today's challenges in concrete precast production loss in productivity and quality due to underused production capacities

How does the concrete get from the mixing plant to the formwork?

- By truckmixer

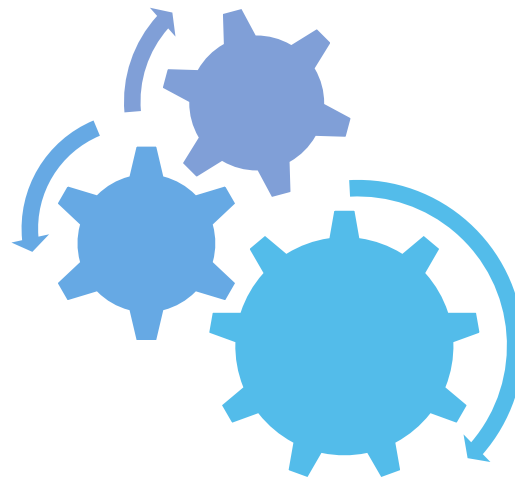


Status quo: today's challenges in concrete precast production loss in productivity and quality due to underused production capacities

- **High dependency on skilled workers**
- **Skills shortage**
- Waiting times / operating stagnations
- Air pollution due to motor exhaust fumes
- Silica exposure
- Accidents
- Consumption of precious crane capacities
- Dirty formwork

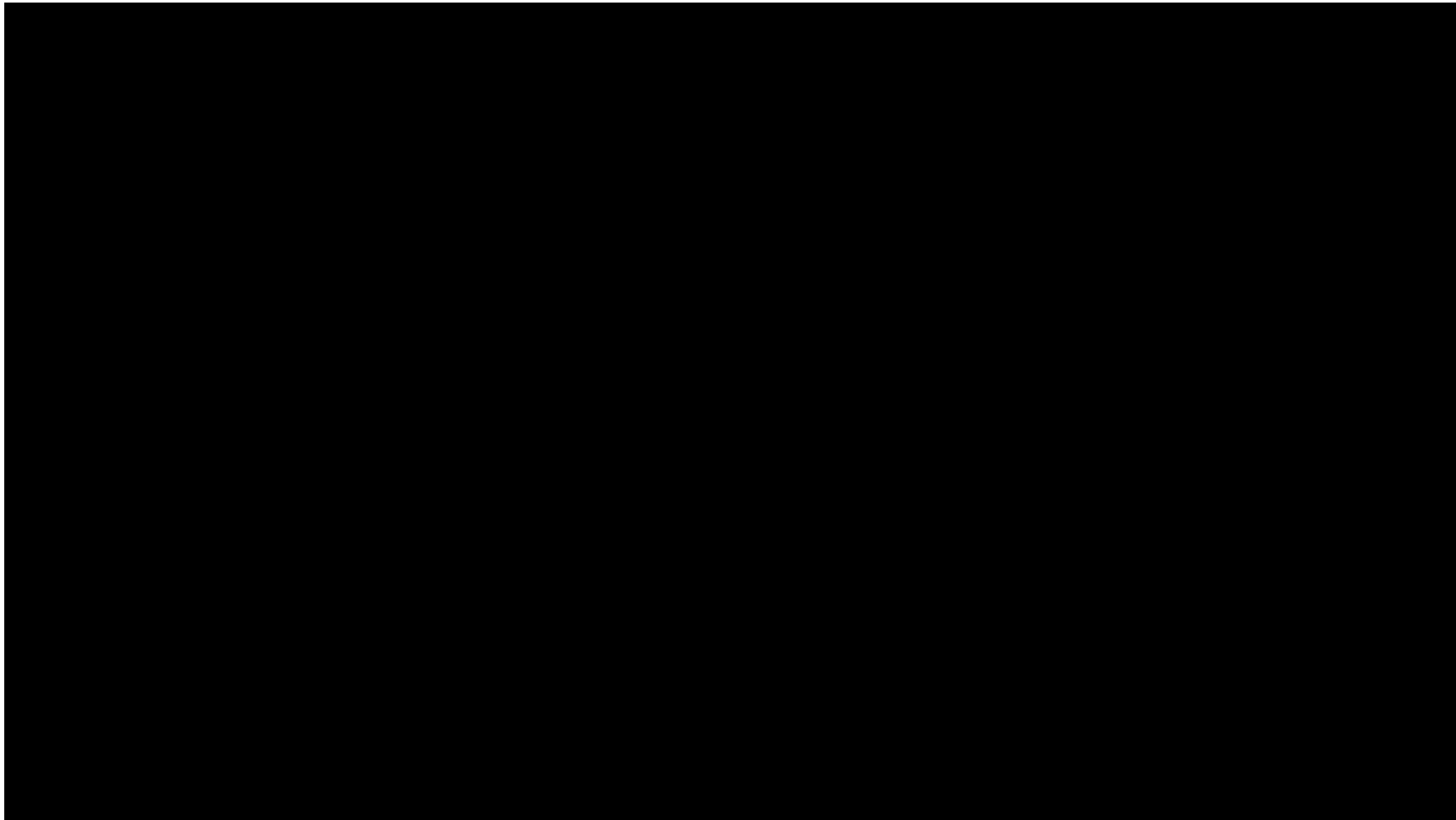
Solutions: increased efficiency and enhanced quality by stepwise automation in precast concrete plants

- Machines and components support the **automation** and **flexibility** in the plant to increase **efficiency** in the production processes
- Individually tailored solutions by Weckenmann for cost-efficient production processes
- Weckenmann as a one-stop service partner accompany you in the planning and conception of the investment to ensure highest productivity



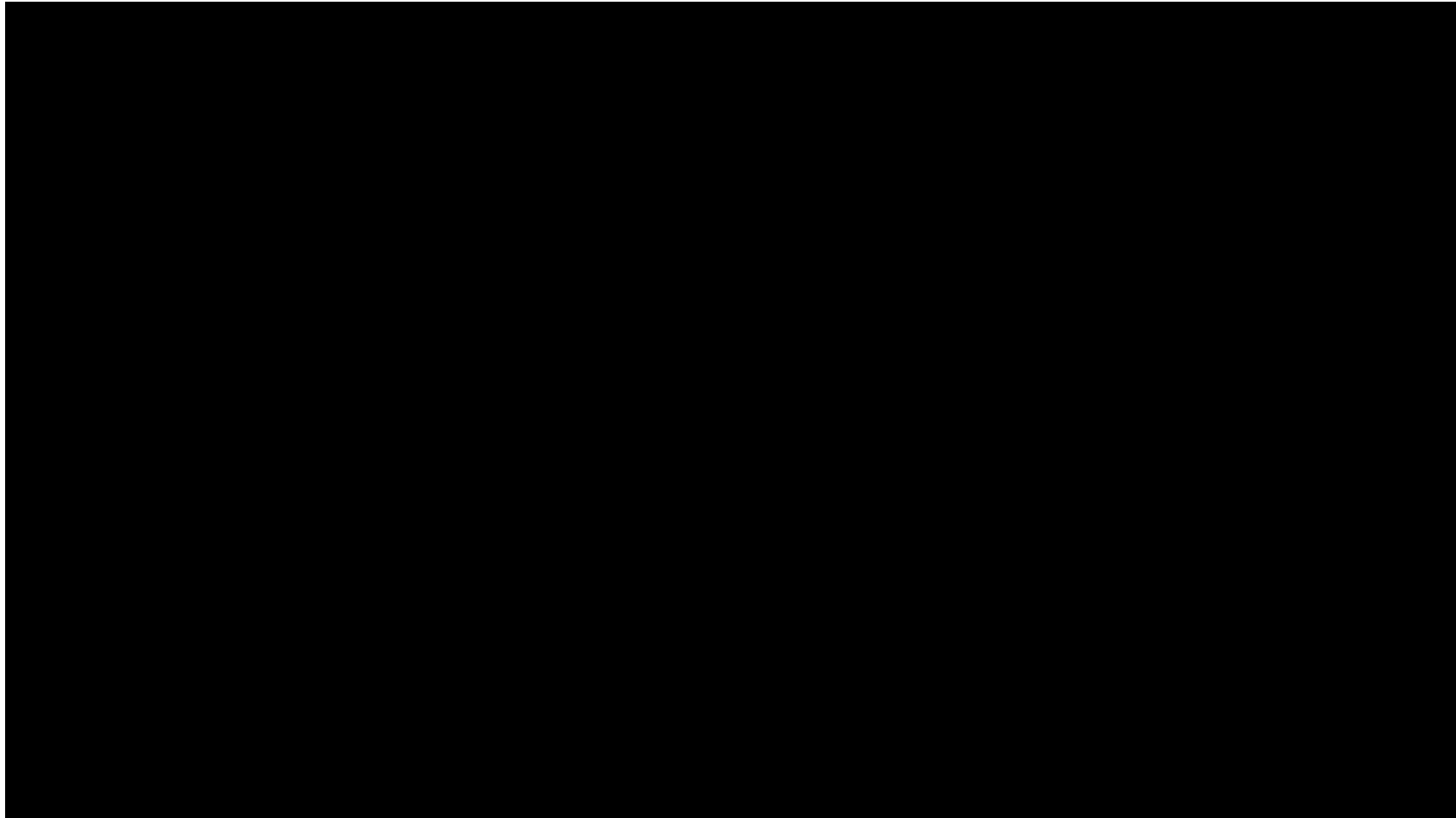
Solution 1: Bucket conveyor

Fully automated transportation from the mixing plant to the factory by bucket conveyor



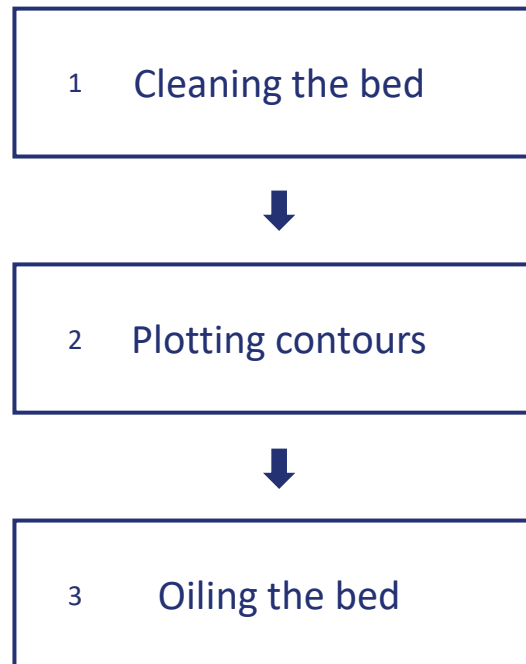
Solution 2: Casting machine

Increase quality and efficiency by spreading concrete into the formwork by a casting machine



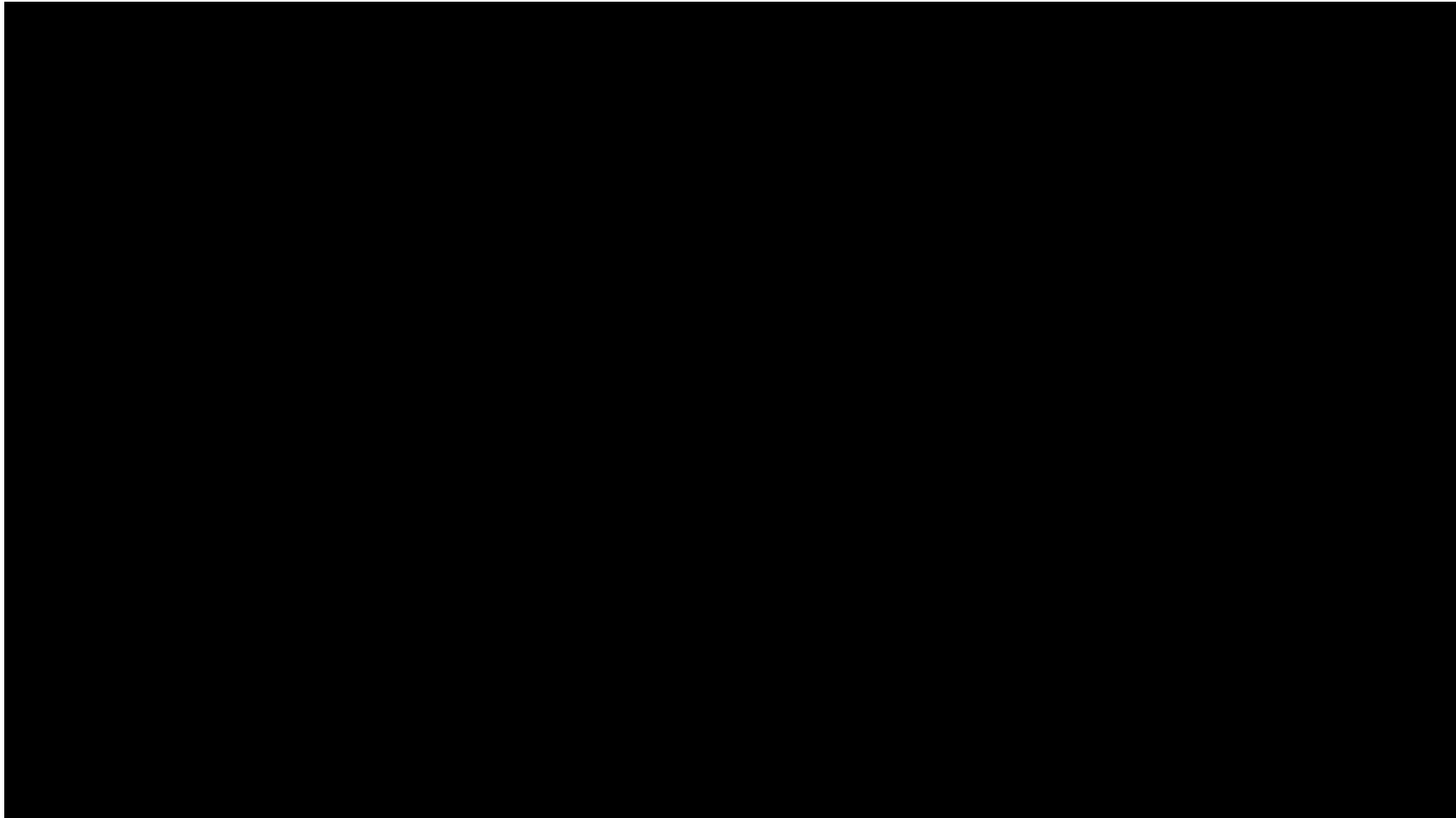
Solution 3: CPO machine

Gain a competitive advantage through optimal preparation of the formwork table in a three step process:

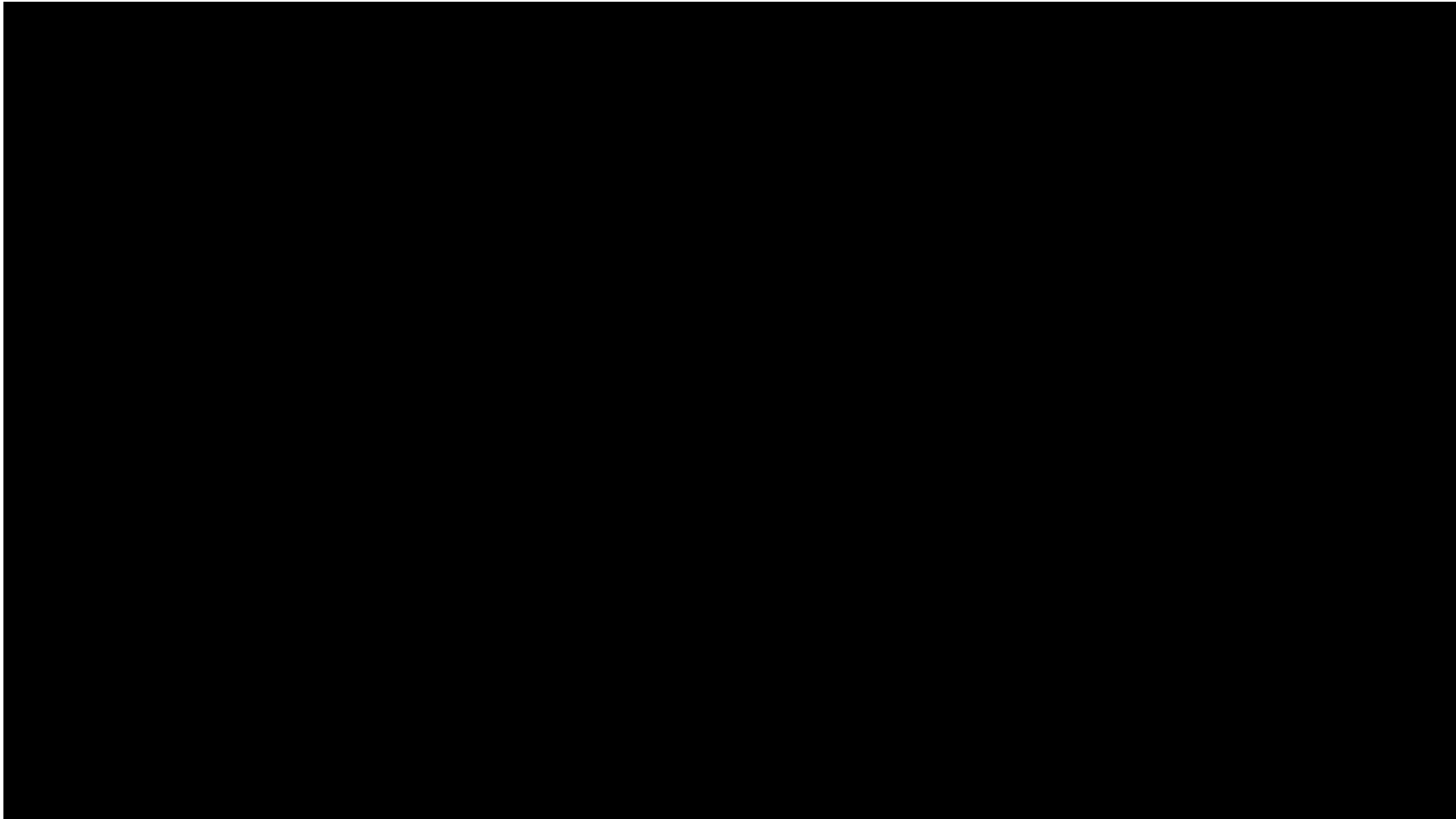


Solution 3: CPO machine

Gain a competitive advantage through optimal preparation of the formwork table in a three step process



Solution 4: Helicopter trowelling and screeder Best results of concrete surfaces with consistently high quality



Solution 5: Reinforcement machine / Utility cart

Gain a competitive advantage with automatic handling of strands and bulkheads

- Lifts the bulkheads up from the bed
- Pulls the strands
- Places the bulkheads on the bed



Gain a competitive advantage by increased level of automation, optimize usage of resources and increase quality during the production process

Advantages:

- Increased automatic operation
- Significant time savings
- Reduced dependency on skilled workers
- High and consistent quality of precast concrete elements
- Best results for concrete surfaces
- Precise pouring of concrete
- Efficient use of capacities
 - Conveying capacity: up to 6cy
 - Casting capacity: up to 3 cy/min
- Reduced soiling of formwork
- Reduced risk of work accidents
- Energy saving
- Less air pollution

Questions and answers

Want to learn more?

Afinitas is the exclusive North American distributor of Weckenmann products.



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Concrete Technologies Worldwide

B/F/S

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PRODUCTS

NEW HAMPTON
Metal Fab

Spillman
Where Concrete Ideas Take Form

The Afinitas family of brands