

Automation & Robotics Systems



Hawkeye Pedershaab
Concrete Technologies Worldwide TM

- Reduced costs • Expanded productivity
- Increased quality • Diverse Safety applications

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New thinking.
New technology.
Optimized productivity and quality.

Forward-thinking manufacturers know the benefits of incorporating automation into their factories – increased productivity, quality surpassing human capability, and predictable repeatability. HawkeyePedershaab has a dedicated line of robots specifically engineered to bring those outstanding benefits to the concrete pipe and manhole industries.

HawkeyePedershaab offers a full range of solutions, from fully-integrated, automatic facilities to stand-alone robotic handling modules and everything in between.

System Benefits

Reduced costs. Robotics and automation eliminates much of the operating costs associated with pipe production. Labor necessities are reduced which in turn increases profits.

Expanded productivity With HawkeyePedershaab automation, productivity and output may be increased. Our solutions enable the option of up to 24 hours/day production.

Increased quality. By taking away the human element of production, product consistency is multiplied and overall quality is increased.

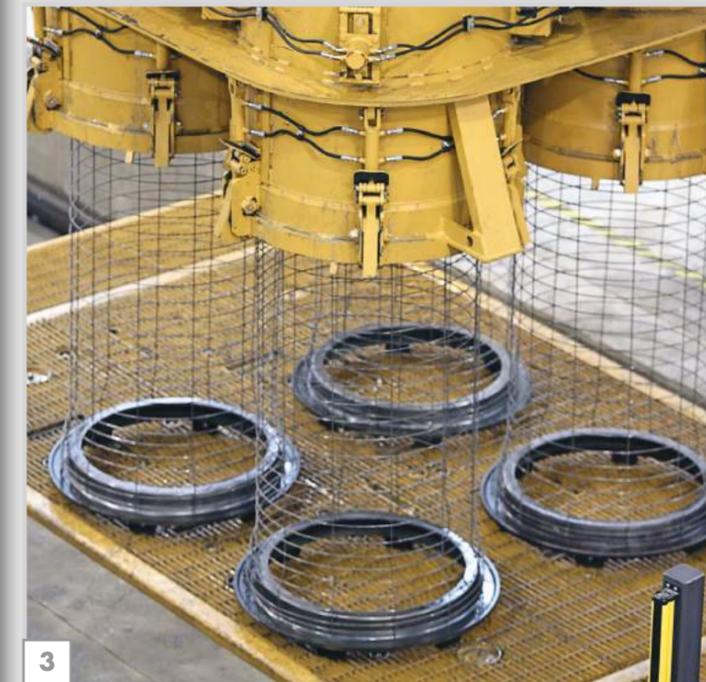
Safety. The use of fewer workers through the implementation of automation lessens the risk of injury and diminishes workers' compensation costs.

Operation

Our robotic solutions are individually tailored to precisely fit the needs and specifications of our users. We have commissioned over 60 fully or semi-automatic factories which are successfully using automation to manufacture products from 250mm (10") to 3000mm (120") in diameter and up to 3m x 3m (10' x 10') box culverts.

Available Robotics

- Demolding cranes and offbearers
- Moving floor systems
- Product handling cranes
- Reinforcement handling systems
- Set ring removal cranes
- Joint ring storage and retrieval handling cranes
- Joint ring removal devices
- Joint ring cleaners
- Joint ring oiling devices
- Pipe tipplers
- Deburring devices
- Spigot measuring devices
- Product labeling devices
- Product testing devices



1. Joint Ring Storage & Removal

A robotic crane automatically selects, transports, and inventories the joint rings.

2. Joint Ring Oiling

Robotic spray oilers automatically adjust to all joint ring sizes and apply the release agent to all concrete surfaces of the joint ring.

3. Reinforcement Handling

Automated reinforcement handling systems move cages into a form loading station without cycle stoppage.



At HawkeyePedershaab we deliver more than machines.

We deliver solutions.

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4. Auto-Offbearing

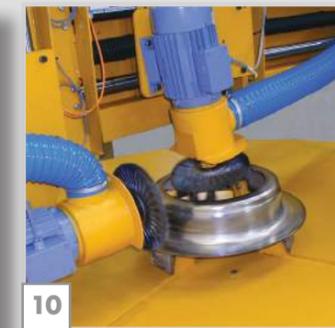
An automatic offbearer transports the mold from the machine, eliminating the need for a crane operator.

5. Auto-Demolding

The automatic offbearer also serves to demold the product for curing.

6. Moving Floor System

Moving floors provide an efficient method of transporting large numbers of product to and from the curing area.



7. Pipe Handling

Our automation includes the option of pipe handling systems to safely deliver products throughout the production process.

8. Set Ring Removal

Robotic manipulators remove the set ring from the pipe or manhole after initial set and return them to the machine for re-use.

9. Manhole Handling

An automatic crane transports and organizes manholes, keeping products undamaged and sustaining production efficiency.

10. Joint Ring Cleaning

Automated joint ring cleaners consistently and fully clean joint rings to ensure smoother, more defined product joint surfaces.

11. Pallet and Header Removal

Quick work is made of removing joint rings from cured pipe. Automating this process reduces injury risks and protects the rings from damage.



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12. Product Testing

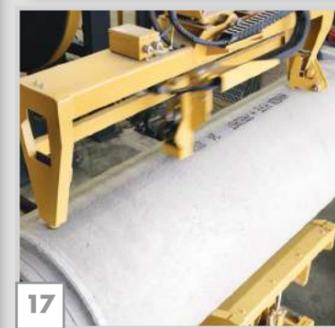
We provide solutions for testing products to ensure the utmost quality. Options include vacuum, hydrostatic, and D-Load testers.

13. Box Tipping

Mechanized box tipping systems safely reposition products for yarding. These automated or mechanized devices save time, protect products, and reduce injury.

14. Spigot and Bell Measuring

Measuring devices automatically take multiple readings along the periphery of the pipe joint, accurate to less than 0.1mm, and store data for quality control and statistical reports.



15. Pipe Tipping

Automatic pipe tippers horizontally position the product carefully and efficiently. We also provide manual pipe tippers for specific needs.

16. Automatic Deburring Devices

Pneumatic-powered crushing cones automatically adjust to different diameters and configurations and remove manufacturing fins for crisp joint surfaces.

17. Product Labeling

Automated devices print a wide range of characters on the inside and/or outside of the products.





The Americas and Asia
506 S. Wapello Street
Mediapolis, Iowa 52637 USA
Phone: +1 (319) 394-3197
Telefax +1 (319) 394-3977

Africa, Australia, Oceania, Europe
Saltumvej 25
9700 Brønderslev – Denmark
Phone: +45 9645 4000
Telefax: +45 9645 4040

info@hawkeyepedershaab.com
www.hawkeyepedershaab.com

