

# Automated Crane Systems



*Automatic Casting Machine featuring servo controlled crane.*

## Double the Production with Half the Labour

Lewis Australia's automation systems have again set new world standards in Productivity, Safety and Quality.

At a Canadian zinc producer, a Lewis Gantry Robot Crane has doubled the production rate of one tonne zinc blocks and halved the operating labour.

## Accuracy and Control

Lewis Australia's gantry crane carries moulds filled with molten metal in the world's fastest, fully automatic, Zinc Block Casting Machine. Advanced servo control minimises cycle time and provides precise acceleration and deceleration, critical to the process.

The fully automatic gantry robot crane has a positional accuracy of +/- 1mm in 30 metres of travel and is the enabling technology for the casting machine. Its high speed and accuracy contributes to the exceptional casting performance. The integrated PLC and SCADA system controls the gantry crane and associated equipment, to automate the entire process of casting blocks.

*Simulation of cable winding system with overhead crane.*



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Australia

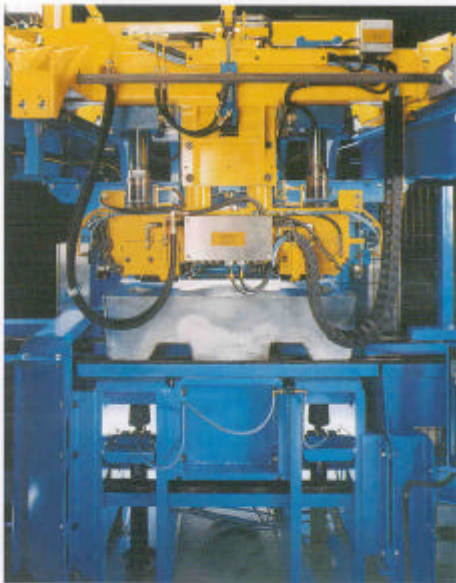
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### Upgrade Existing Equipment and Process

Using the latest proven technology, manually controlled processes and existing cranes can be upgraded to fully automatic operation, improving productivity, process control, product tracking, product quality and operator safety. Lewis Australia's automation skills give you the opportunity to rethink your production processes and achieve new benchmarks.



*Automatic lead ingot gantry transfer and doubling station.*



*Automatic zinc block demoulding and transfer device.*

### Our Experience

Other examples of Lewis materials handling systems include:

- Automatic zinc block demoulding and transfer device.
- Automatic gantry transfer and doubling for ingots.
- V6 engine transfer station.
- Aluminium cell anode handling system.
- Automotive boot lid, front end and body frame transfer facilities.

Lewis has 30 years experience in automated materials handling, covering a wide variety of industries, in Australia and overseas. We work with you to change the paradigm.

Enquire today how our engineering services can identify automation alternatives and their benefits.

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