

Molten Metals Automation

From Furnace to Final Products

Automation

Lewis Australia delivers automation systems that improve our Clients' product and competitiveness. Using our equipment, our clients set new world standards in Safety, Quality and Productivity.

Lewis Australia is the innovative force behind the creation of the next generation of production technology.

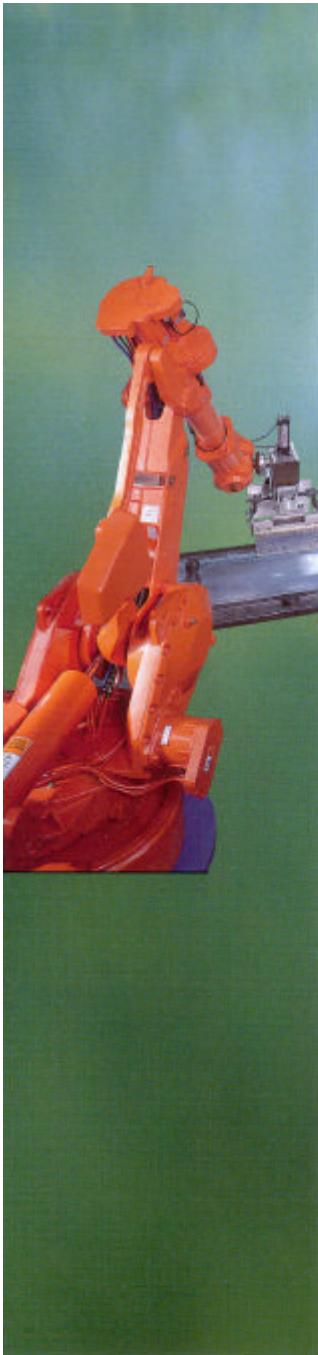
Productivity

The need for higher capacity and reduced operating costs is the tangible driver for an automation project.

Lewis machines have provided major capacity leaps and cost savings. Our block casting machine doubled previous maximum production capacities and halved the operating costs. Our ingot caster provided similar productivity and technological advances.

It is now possible for the full production of a major smelter to be cast on a single machine by one operator per shift.

Have you reached the productivity limit of your existing technology?



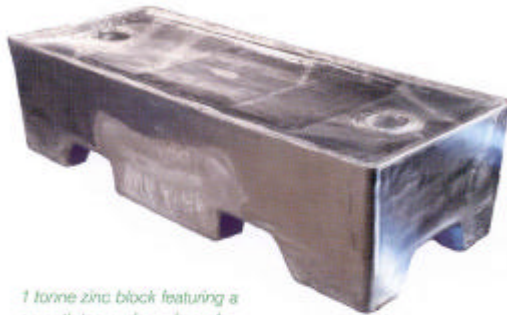
Robotic Dross Skimming of 1 tonne block.

Automatic Ingot Casting Machine. Casting rate is 1440 ingots per hour.



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1 tonne zinc block featuring a smooth top surface, free of cracks and cavities. These blocks are cast automatically.

Quality

Automation provides a consistency of manufacture that is not otherwise possible.

Lewis Australia seeks the world's best process technologies before starting the automation design work. When existing technologies will not meet a client's needs, we undertake development work to provide a new technology. Recent examples include the development of the first Low Dross Pouring system for zinc blocks that reduces dross make by 90% and the first robotic dross removal system for these same blocks.

By applying automation principles to the best available technologies, Lewis' equipment sets the world benchmark for consistent product quality.

Is your product the best in the world?

Safety

Molten metal handling is a hazardous job. Implementing well-designed automation of the production process ensures that operators are not exposed to hazards.

Our clients have achieved significant safety record improvements after commissioning Lewis fully automatic casting machines. Manual efforts are eliminated and operators are removed from close proximity to the molten metal and other hazards.

Are your operators exposed to hazards?



*Automatic 18.2 Tonne Block Casting
Machine requiring one operator.
Output is 27 tonnes per hour.*

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