

LamaCaster E65

Electric Die Casting Machine



The LamaCaster E65

All-electric die casting machine built for
performance, quality, and sustainability

LamaCaster E65



The **LamaCaster E65** is the latest addition to Titus' range of die casting machines. It is an electric, multi-slide model designed for high precision and reliability. It is engineered for **performance, quality, and quieter workplace environment.** It supports demanding customers looking to increase productivity while lowering energy use and scrap rates.

Designed and built in Europe, the LamaCaster E65 delivers performance without compromise – with servo-driven control, smart diagnostics, and an intuitive interface, all within a compact, modular format.

Specification

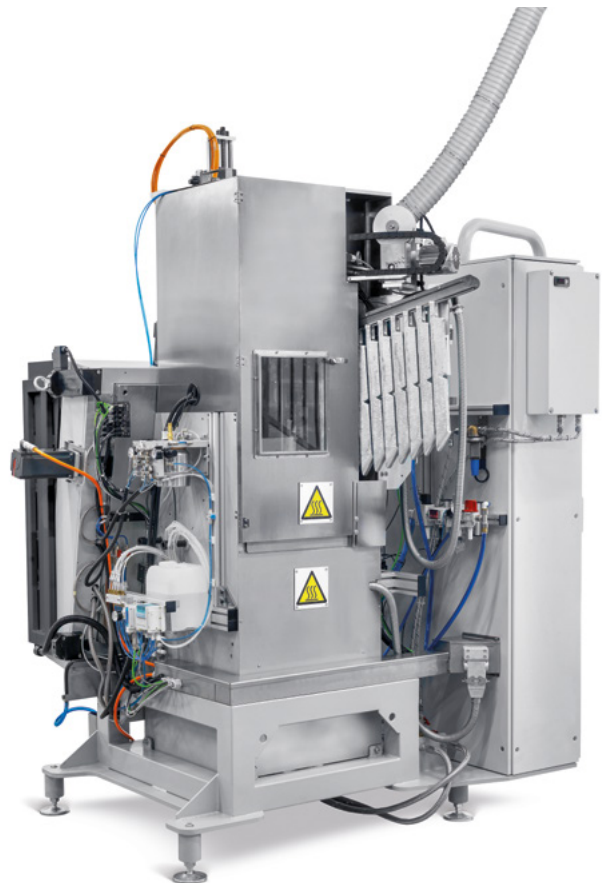
Tool size	65 mm × 65 mm Option 100 mm × 65 mm
Clamping force	4 tonnes
Max. recommended shot weight	90 g
Max. shot weight	150 g
Dry cycle speed	80 cycles/min
Drive system	Fully electric, servo-driven
Max. injection metal pressure	210 bar
Noise level	Approx. 70–75 dB(A)

Performance and Sustainability Gains

Proven Results with the LamaCaster E65

- Up to **66% lower energy consumption** thanks to all-electric actuation
- Up to **67% increase in productivity** in high-volume, precision applications
- Up to **35 tonnes of CO₂ savings per year per machine**
- Over **€3,000 in reduced maintenance costs annually**
- Noticeably **quieter operation** – 10–15 dB(A) lower than hydraulic/pneumatic machines

The LamaCaster E65 is engineered to meet the growing demand for **energy efficiency, process reliability, and reduced environmental impact** – with no compromise on precision or performance. This means consistent, reliable results – achieved through high-performance technology, stable processing, and precision in every cycle.



Precision

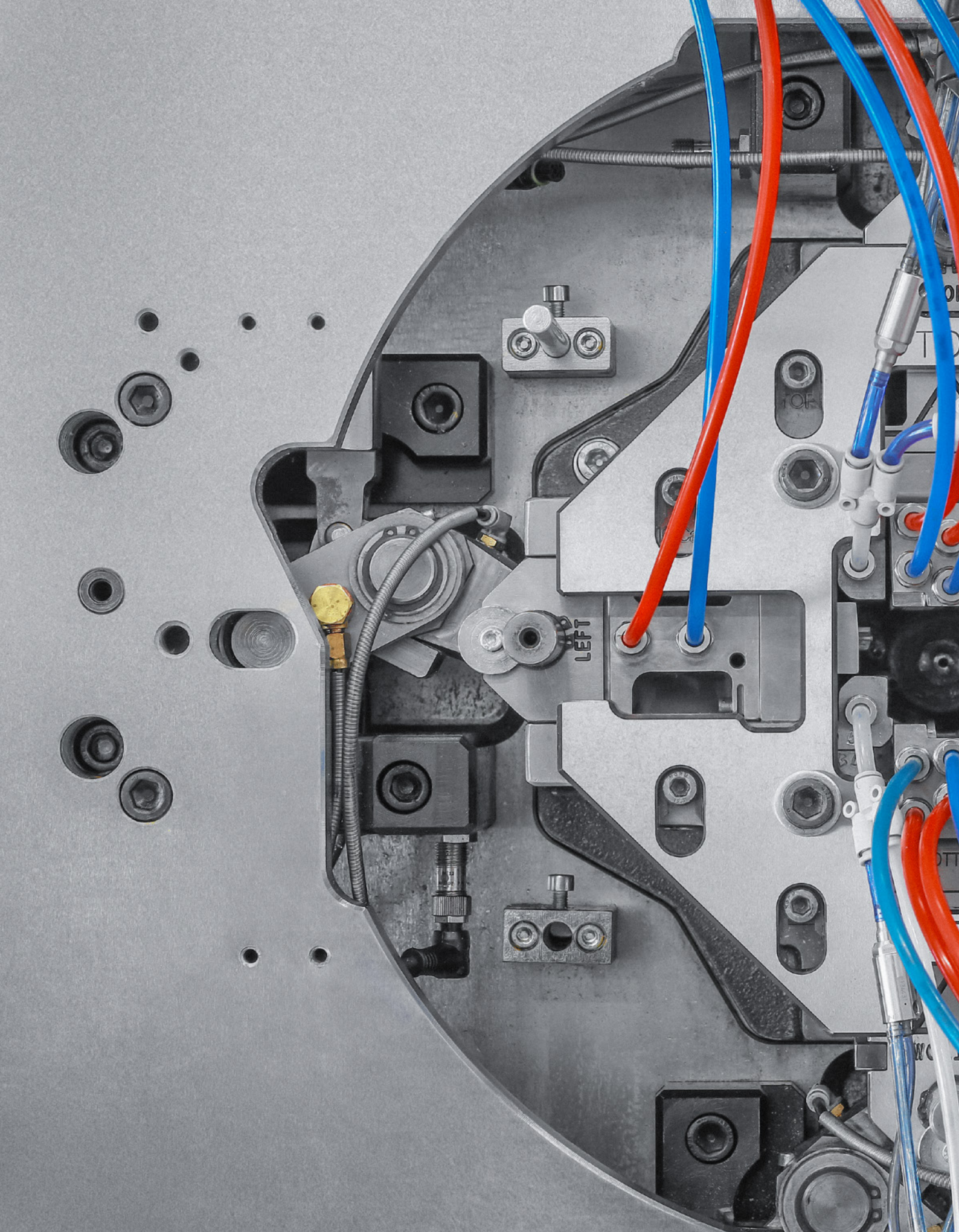
- Robust machine frame, backplate and toggle ring give high machine rigidity
- The rigid machine platform is ideal for precise tool set-ups and operation
- Micro-level control over all machine movements through servomotors/actuators
- Live cycle-to-cycle feed back to the operator enabling monitoring in real time
- Complete control over the injection stroke enabling creation of ideal fill conditions

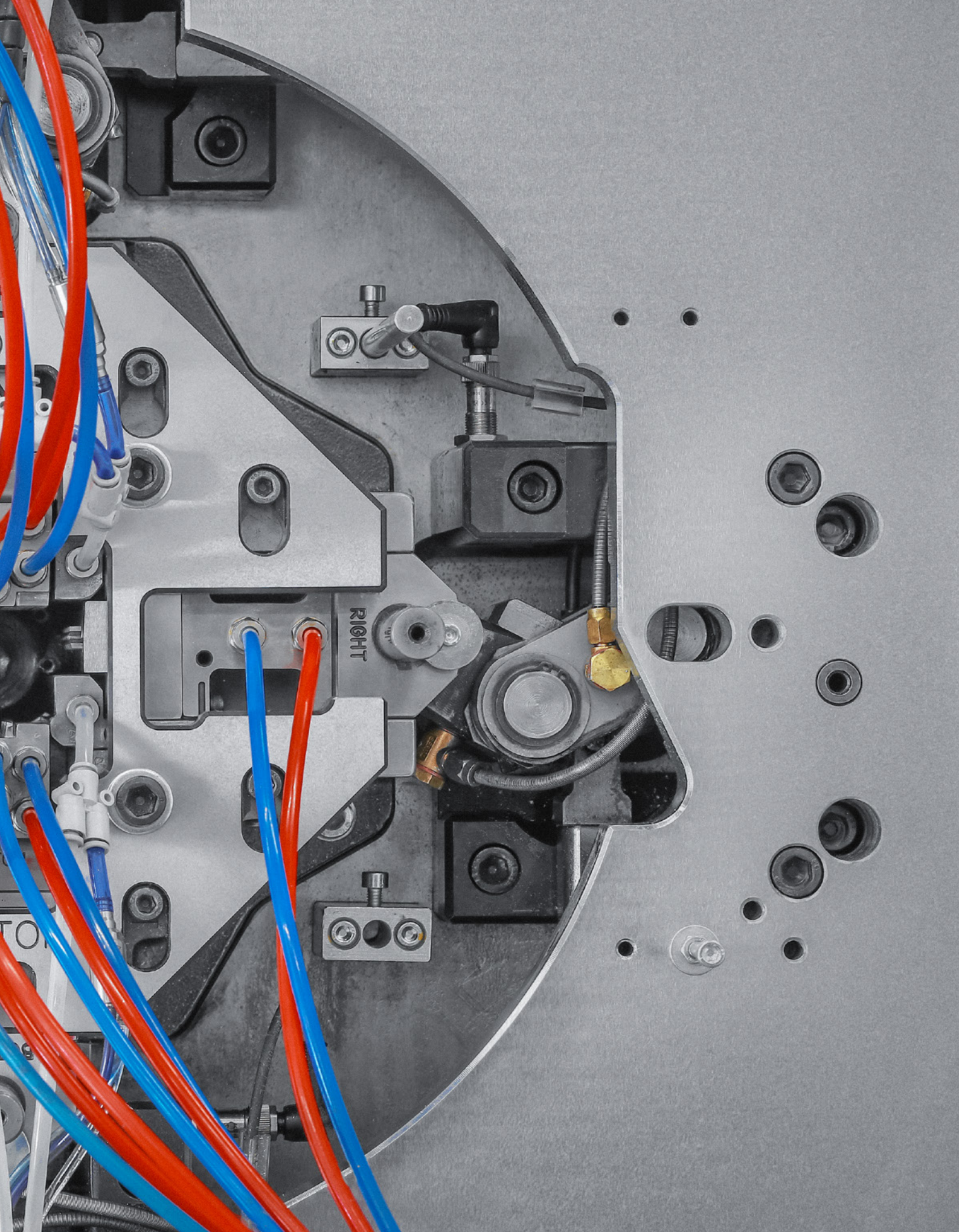
Reduced Costs

- Significantly reduced costs of process energy inputs
- High productivity from fast-cycling multi-cavity tools
- Excellent machine reliability gives high rates of machine uptime
- Very reliable. Fewer breakdowns and expenditure on spares
- High uptime gives good machine staffing ratios and reduced labour costs

The LamaCaster E65 is ideal for

- Precision electronic components
- Automotive parts
- Appliance components
- Any application requiring high output, dimensional repeatability, and low reject rates





LamaCaster E65

Unique Features



Control

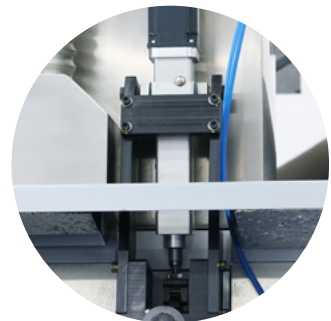
Completely new programme developed to optimise servo drives and enhance operator experience

- Live process control of all major machine functions
- Real-time operator feedback and shot monitoring
- Smart diagnostics
- Optimised productivity
- Intuitive touch-screen interface



Speed

- Dry cycle speed **up to 80 cycles/min**
- Capable of running large multi-cavity tooling
- Minimal downtime and maximum uptime
- Reliable and consistent performance
- **OEE above 90% is achievable**



Precision

- Servomotors and controls provide micro-level accuracy across all functions
- Complex parts up to 150 g
- Shot-monitoring function controls injection parameters
- Integrated sensors and real-time feedback across all key functions
- Self-diagnostics for predictive maintenance
- Consistent, repeatable performance

Power

- Rigid backplate, frame, and ring-toggle system – 4-tonne clamp force
- Four servomotor/actuator toggle assemblies
- Easy operator access
- Fast tool changes
- Automatic set-up function
- Clamping pressure controlled at micro levels via servo controls
- 15 kW melt pot with 80 kg/hr melt rate

Ready for the Future

The LamaCaster E65 supports the transition to more connected and efficient manufacturing while contributing to a quieter workplace environment. Featuring digital-ready controls and a flexible design, it integrates seamlessly into smart factory strategies without requiring full automation.

- Remote diagnostics
- AI-ready platform (preconfigured interface)
- Supports ESG* goals through efficiency and traceability

*Environmental, Social and Governance

Key Features and Benefits



All-Electric Design

- **Feature:** All machine movements are servo-actuated
- **Advantage:** Cleaner, more efficient operation
- **Benefit:** Lower energy use, reduced maintenance, high machine output



Fast Changeovers

- **Feature:** Machine controls are designed for automatic repeat tool setup
- **Advantage:** Reduced downtime
- **Benefit:** Up to 30% faster tool changes



High Process Stability

- **Feature:** Repeatable injection and tool movements
- **Advantage:** Tighter process control
- **Benefit:** Lower scrap rates and consistent part quality



Smart Monitoring and Diagnostics

- **Feature:** Integrated sensors and real-time feedback
- **Advantage:** Predictive maintenance and easier troubleshooting
- **Benefit:** Higher uptime and reduced risk of unplanned stops



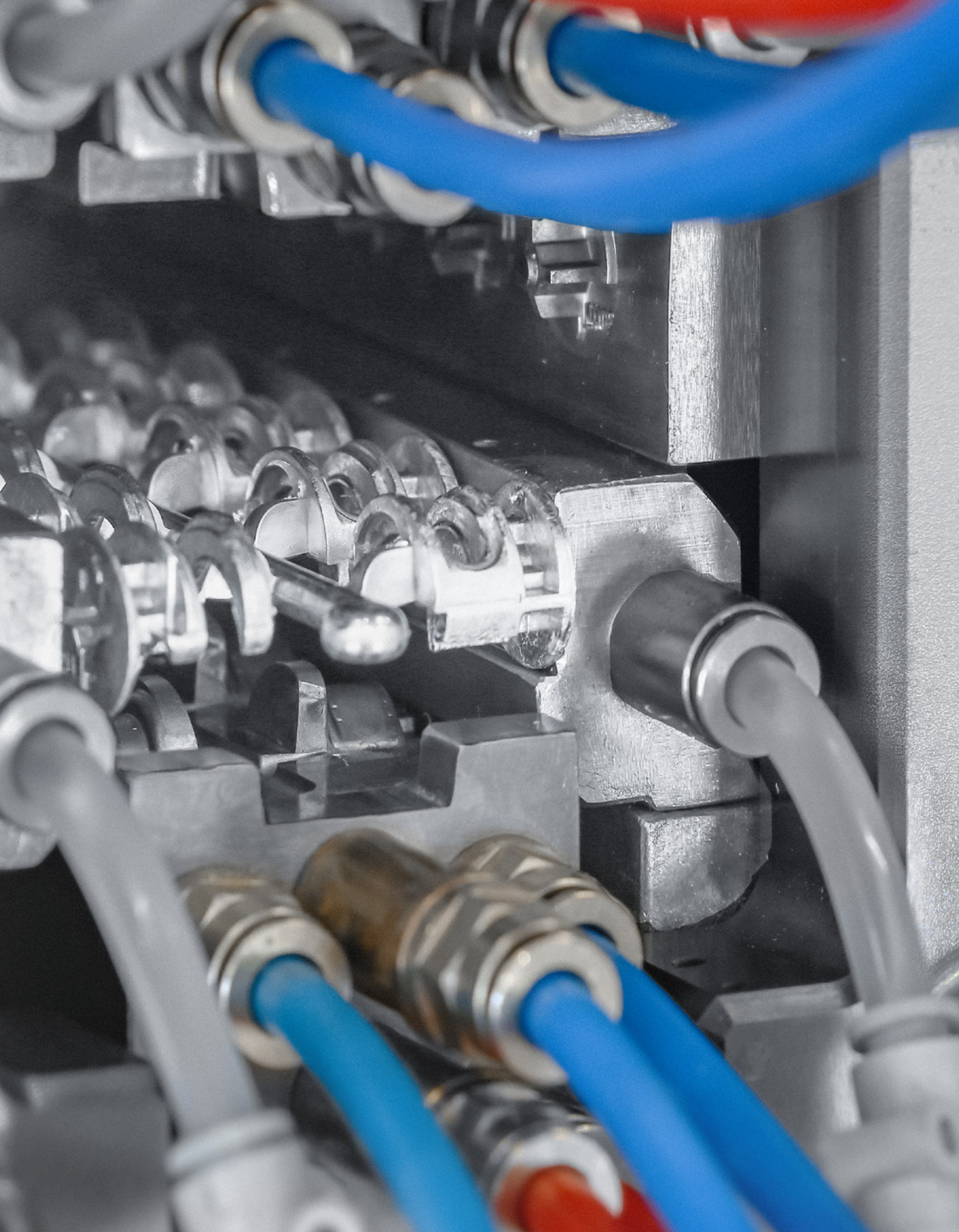
Precision Casting for Complex Parts

- **Feature:** High-speed injection with micro-level accuracy
- **Advantage:** Optimised for complex geometries and thin walls
- **Benefit:** Excellent fill and surface finish

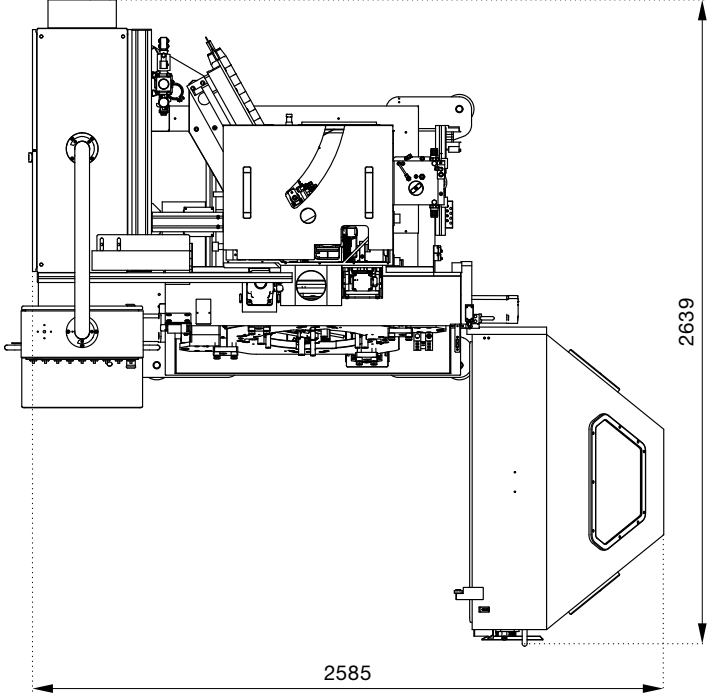
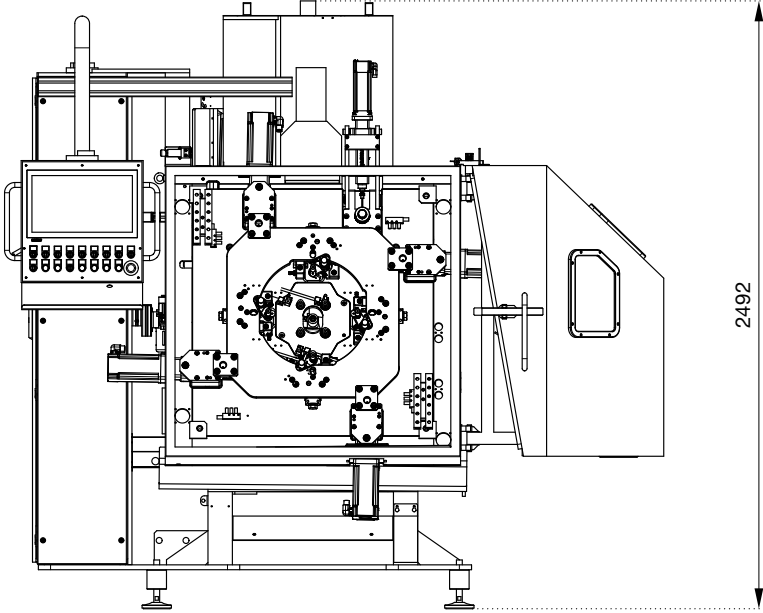


Health and Safety

- **Feature:** Machine movements driven by servomotors and actuators
- **Advantage:** Quieter machines with no oil or air leaks
- **Benefit:** Cleaner, quieter working environment for employees



Machine Layout – Open Configuration



Machine Specification

LamaCaster E65 Mk1						
Item	Metric			US		
	Standard	Option 1	Option 2	Standard	Option 1	Option 2
Slider Movement / Tool						
No. of slides	4	6	6	4	6	6
Max. stroke (theoretical)	50 mm			1.98"		
Nominal die size	65 mm x 65mm	100 mm x 65mm	100 mm x 65mm	2.56" x 2.56"	2.56" x 2.56"	2.56" x 2.56"
Clamping force	4 tonnes			4.4 tonnes		
No. of cavities in tool	n/a	n/a	n/a	n/a	n/a	n/a
Melt Pot						
Heater power	20 kW			20 kW		
Melt rate	105 kg/h			231 lbs/h		
Melt pot capacity	160 kg			353 lbs		
Cooling						
Supply of treated water	3 bar			43.5 psi		
Recommended water temperature	13 to 18 °C			55 to 65 °F		
Pneumatics						
Line pressure (max.)	6 bar			87 psi		
Air consumption (max.)	25 m³/h			14.7 cfm		
Capacity of air reservoirs	n/a			n/a		
Dry cycle speed (cycles/min)	80			80		
Hydraulics						
Line pressure (max.)	n/a			n/a		
Hydraulic tank capacity	n/a			n/a		
Motor power	n/a			n/a		
Injection						
Injection piston diameter	25.4 mm	25.4 mm	40 mm	1"	1"	1.57"
Injection cylinder diameter	80 mm	100 mm	100 mm	3.15"	3.94"	3.94"
Max. injection cylinder stroke	45 mm			1.77"		
Max. shot weight (theoretical)	150 g	150 g	370 g	5.3 oz	5.3 oz	13 oz
Max. recommended shot weight	90 g	90 g	220 g	3.2 oz	3.2 oz	7.8 oz
Max. recommended metal pressure	210 bar	270 bar	110 bar	3046 psi	3916 psi	1595 psi
Nozzle						
Heater power	1100 W			1100 W		
Power Supply						
Voltage	3 x 400V 50Hz			3 x 400V 50Hz		
Nominal power	55 kW			55 kW		
Nominal current	85 A			85 A		
Pre-fuse max.	125 A			125 A		
Connection type	TN-S, 3+N+PE			TN-S, 3+N+PE		

Service and Support

We provide our customers with global after-sales service across our entire product range. Our qualified, factory-trained staff deliver all the technical support our customers may require.

Whatever machine you choose, our customer service team is here to support you.



Machine Projects

Supported by our highly experienced engineering team – from selecting the most suitable machine and tooling solution, through delivery and commissioning, to ongoing after-sales service and support.



Training

We provide comprehensive training across all machine types to ensure your staff fully understand the equipment and can optimise your production process.



Spare Parts

We maintain a comprehensive stock of spare parts in Europe, with additional inventories of commonly used parts available in the USA and Asia.



Breakdown Support

We offer online breakdown assistance from Slovenia. Our technicians can identify most faults remotely and guide you through the repair process. Where required, our service engineers are available for on-site intervention.



Servicing

We recommend and provide annual on-site servicing to ensure that all machines remain in optimum condition and continue to perform at the highest level.

Engineered for Purpose

Titus is committed to providing its customers with products and services that improve their competitiveness, while reducing manufacturing and assembly costs.



TitusCast

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