

LamaCaster

Multi-Slide Die Casting Machines



LamaCaster Series

Why Choose LamaCaster Die Casting Machines?

Every LamaCaster machine is constructed using the same core principles: excellent design, precision engineering, high-quality build standards, and forward-thinking innovation. Our pneumatic, hydraulic, and electric models are all built around these four essential principles, delivering productivity, casting quality, and cost-effectiveness to our customers.

Key Values

- **Innovation** – Continual improvement of machine designs, control systems, and servo technologies.
- **Productivity** – High output, reduced downtime, and faster ROI.
- **Reliability** – Industrial durability, stable processing, and low maintenance.
- **Sustainability** – Lower energy consumption, reduced emissions, and ESG alignment.

What is ESG?

ESG stands for **Environmental, Social, and Governance** – a widely used framework to evaluate how responsibly and sustainably a company operates.

In manufacturing, it relates to energy efficiency, environmental impact, safety, labour practices, and transparency.

The LamaCaster E65 – and the broader TitusCast range – support ESG goals through clean, efficient, and traceable production.

The LamaCaster Range

The LamaCaster range includes pneumatic, hydraulic, and electric models. Our key values apply to all – each technology delivers them differently.

Common Benefits from All LamaCaster Machines

1. **Proven Multi-Slide System** – Precision multi-slide die casting, ideal for small, complex parts.
2. **High Productivity from Fast-Cycling Multi-Cavity Tooling.**
3. **Durability and Long Life** – Robust construction designed for demanding industrial use.
4. **Repeatable Results at High Volumes** – Stable processing ensures consistent quality at scale.
5. **Optimum Raw Material Use from Split-Line Injection.**

Specific Benefits of the LamaCaster E65 (Electric Model)

1. **All-Electric** – Cleaner, quieter, more efficient operation – no hydraulics or pneumatics.
2. **Up to 66% Lower Energy Use** – Compared to hydraulic models – reducing both footprint and cost.
3. **Up to 67% Higher Productivity** – Faster cycles, shorter changeovers, improved uptime.
4. **Smart Control and Diagnostics** – Digital interface enables predictive maintenance and process optimisation.

LamaCaster Multi-Slide Die Casting Machines

LamaCaster P65

A fast-cycling pneumatic multi-slide die casting machine, ideal for the high-volume production of small components. Combines extremely fast cycle times with multi-cavity tooling for optimal throughput and productivity.

Tool size	65 mm x 65 mm
Clamping force	2 tonnes
Shot weight	60 g
Dry cycle speed	100 cycles/min
Casting speed	55 cycles/min



LamaCaster H65

A powerful and precise multi-slide hydraulic machine for complex parts where casting integrity, thin wall sections, and surface finish are essential.

Tool size	65 mm x 65 mm Option 100 mm x 65 mm
Clamping force	8 tonnes
Shot weight	90 g
Dry cycle speed	60 cycles/min
Casting speed	45 cycles/min



LamaCaster H100

Our largest and most powerful multi-slide die casting machine. Engineered for large structural components where high integrity, precision, and thin wall casting are critical. Ideal for high-performance applications.

Tool size	100 mm x 100 mm
Clamping force	20 tonnes
Shot weight	220 g
Dry cycle speed	45 cycles/min
Casting speed	30 cycles/min



LamaCaster Customised Casting Cells

We engineer fully integrated die casting cells that combine machine, tooling, and automation in one system. These cells can perform casting, over moulding, degating, finishing, and secondary operations in a single workflow – helping customers reduce inventory, transport costs, and delivery times while increasing manufacturing efficiency.



NEW

LamaCaster E65 All-Electric Die Casting

The LamaCaster E65 is an all-electric multi-slide machine. Using the latest servomotor technology and controls, it delivers real energy-saving performance compared with similar pneumatic and hydraulic machines. While reducing process energy inputs, it remains highly productive – fast-cycling, precise, and capable of producing the most demanding parts.

Tool size	65 mm x 65 mm Option 100 mm x 65 mm
Clamping force	4 tonnes
Shot weight	90 g
Dry cycle speed	80 cycles/min
Casting speed	40 cycles/min



LamaCaster P65

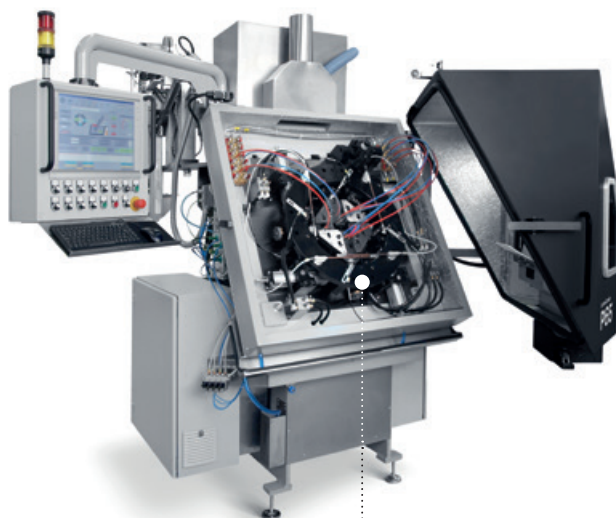
Specification

Tool size	65 mm × 65 mm
Clamping force	2 tonnes Option 3.2 tonnes
Shot weight	Up to 100 g
Dry cycle speed	Up to 100 cycles/min
Casting speed	55 cycles/min

The **LamaCaster P65** is a fast-cycling pneumatic multi-slide die casting machine, ideal for producing small, complex zinc components with maximum efficiency. Designed for high-speed production and repeatable quality, the P65 combines fast dry cycle rates (up to 100 cycles/min) with excellent shot-to-shot consistency.

Its compact design and minimal footprint make it easy to integrate into space-constrained environments. Engineered for durability and simplicity, the P65 offers top productivity with low maintenance – the ideal solution for small, high-volume castings.





Control

- Touchscreen operator interface
- Proprietary software with process visualisation
- Simple operation and fast setup
- Compact footprint, easy integration

Speed

- Fast pneumatic actuation
- Dry cycle speeds up to 100 cycles/min
- Quick tool changeovers



Precision

- Ideal for small, complex zinc parts
- Up to 6 tool slides for high-cavity or complex tooling
- Injection piston diameter 25.4 mm (1")
- Max. injection stroke 30 mm (1.2")
- Max. metal pressure 230 bar (3336 psi)



Power

- Melt pot heater power 15 kW
- Melt rate 80 kg/h (176 lbs/h)
- Melt pot capacity 160 kg (353 lbs)
- Air consumption (max.) 100 m³/h (58.9 cfm)
- Line pressure 8 bar (113 psi)

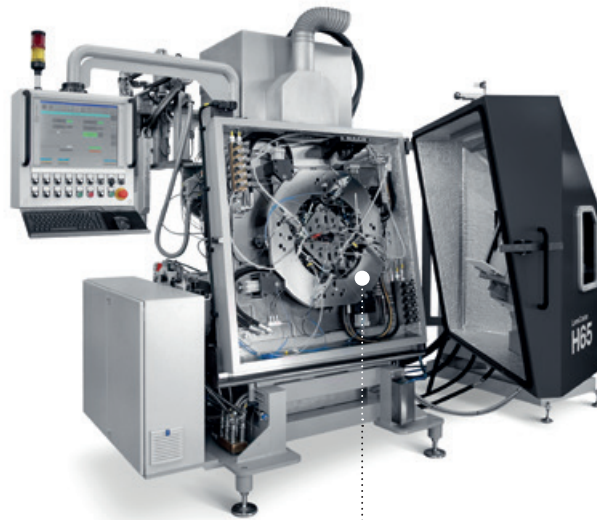
LamaCaster H65

Specification

Tool size	65 mm x 65 mm Option 100 mm x 65 mm
Clamping force	8 tonnes
Shot weight	Up to 150 g
Dry cycle speed	Up to 60 cycles/min
Casting speed	45 cycles/min

A high-performance hydraulic multi-slide machine, designed for applications where precision, structural integrity, and excellent surface finish are essential. The **LamaCaster H65** combines powerful injection with process repeatability – ideal for medium-sized, high-complexity castings.





Control

- Touch screen operator interface
- Proprietary software
- 100 tool programme storage capacity
- Shot monitoring capability
- Start up and bad part rejection system
- Six independently programmable hydraulic functions

Speed

- Fast cycling
- Dry cycle speed >60 cycles/min
- Casting speeds at >40 cycles/min
- Quick tool changeovers (20 min)



Precision

- High integrity castings
- Complex shapes
- Plating quality surface finish
- ± 0.01 mm general tolerance
- ± 0.03 mm roundness across the parting line
- Wall thicknesses to 0.25 mm
- Up to six slides for complex shapes



Power

- 11 kW hydraulic system
- Clamping force of 8 tonnes
- Multi-stroke ejection function on each toggle position
- Max. theoretical shot weight 150 g
- Max. recommended shot weight 90 g
- 130 bar injection

LamaCaster H100

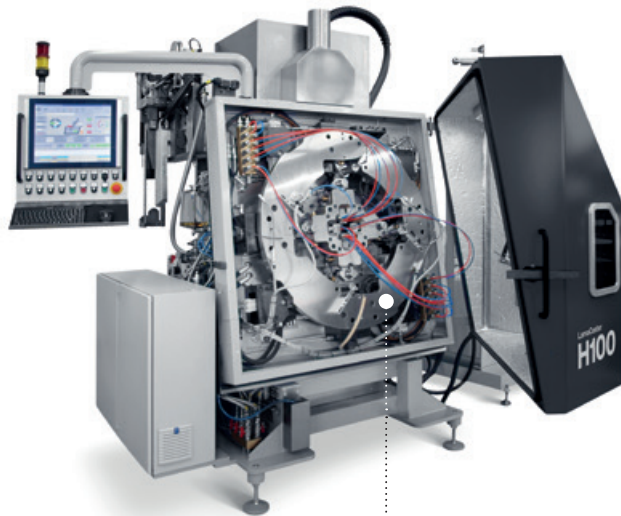
Specification

Tool size	100 mm x 100 mm
Clamping force	20 tonnes
Shot weight	Up to 370 g
Dry cycle speed	Up to 45 cycles/min
Casting speed	30 cycles/min

A robust and highly capable hydraulic multi-slide machine, built for large or complex castings where tight tolerances and superior surface finish are required.

The **LamaCaster H100** delivers all the benefits of multi-slide technology – including speed, efficiency, and reduced material usage – and incorporates upgrades for enhanced control, operator usability, and performance.





Programme

- Max. process control
- Max. operator feedback
- Optimal productivity
- Optimal casting quality
- Complex net shape parts with thin walls (down to 0.25 mm), tight tolerances (± 0.003 mm) and good surface finish

Back plate layout

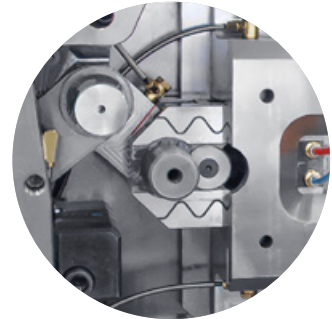
- Easy access
- Faster tool changes (20 min)
- Quicker maintenance
- Operator friendly
- Easy to operate



Hydraulics

Optimised hydraulic configuration

- Greater speed
- Improved injection performance (90% casting yield)
- Shot to shot repeatability
- More responsive
- Quieter



Clamping

- 20 tonnes clamping force
- Fast acting toggle system
- Accurate low pressure close
- Minimal flash on parts
- Dimensional accuracy

NEW

LamaCaster E65

Specification

Tool size	65 mm x 65 mm Option 100 mm x 65 mm
Clamping force	4 tonnes
Shot weight	Up to 150 g
Dry cycle speed	80 cycles/min
Casting speed	40 cycles/min

The **LamaCaster E65** is the latest machine from Titus. It is a fully electric multi-slide die casting machine, engineered for precision, repeatability, and cleaner production. It supports demanding manufacturers seeking to increase productivity while reducing energy use and scrap rates. Designed and built in Europe, the LamaCaster E65 delivers performance without compromise – featuring servo-driven controls, smart diagnostics, and an intuitive interface, all within a compact, modular frame.





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

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.

LamaCaster Die Casting Machine Specification

Item	LamaCaster P65 Mk2				LamaCaster H65 Mk3			
	Metric		US		Metric		US	
	Standard	Option	Standard	Option	Standard	Option	Standard	Option
Slider Movement / Tool								
No. of slides	4	6	4	6	4	6	4	6
Max. stroke (theoretical)	50 mm		1.98"		50 mm		1.98"	
Nominal die size	65 mm x 65 mm		2.56" x 2.56"		65 mm x 65 mm	100 mm x 65mm	2.56" x 2.56"	3.94" x 2.56"
Clamping force	2 tonnes	3.2 tonnes	2.2 tons	3.5 tons	8 tonnes		8.8 tons	
No. of cavities in tool	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Melt Pot								
Heater power	15 kW		15 kW		20 kW		20 kW	
Melt rate	80 kg/h		176 lbs/h		105 kg/h		231 lbs/h	
Melt pot capacity	160 kg		353 lbs		160 kg		353 lbs	
Cooling								
Supply of treated water	3 bar		43.5 psi		3 bar		43.5 psi	
Recommended water temperature	13 to 18 °C		55 to 65 °F		13 to 18 °C		55 to 65 °F	
Pneumatics								
Line pressure (max.)	8 bar	8 bar	113 psi		6 bar		87 psi	
Air consumption (max.)	100 m³/h	100 m³/h	58.9 cfm		25 m³/h		14.7 cfm	
Capacity of air reservoirs	18 l	18 l	4.75 gallons		n/a		n/a	
Dry cycle speed (cycles/min)	100	100	100	100	60		60	
Hydraulics								
Line pressure (max.)	n/a		n/a		110 bar	130 bar	1595 psi	1885 psi
Hydraulic tank capacity	n/a		n/a		150 l		39.6 gal	
Motor power	n/a		n/a		11 kW		14.75 HP	
Injection								
Injection piston diameter	25.4 mm		1"		25.4 mm	40 mm	1"	1.57"
Injection cylinder diameter	1 x 100 mm	2 x100 mm (Tandem)	4"	2 x 4" (Tandem)	63 mm		2.48"	
Max. injection cylinder stroke	30 mm		1.2"		45 mm		1.77"	
Max. shot weight (theoretical)	100 g		3.5 oz		150 g	370 g	5.3 oz	13 oz
Max. recommended shot weight	60 g		2.1 oz		90 g	220 g	3.2 oz	7.8 oz
Max. recommended metal pressure	115 bar	230 bar	1668 psi	3336 psi	350 bar	290 bar	5076 psi	4206 psi
Nozzle								
Heater power	500 W	500 W	500 W	500 W	1100 W		1100 W	
Power Supply								
Voltage	3 x 400V 50Hz		3 x 400V 50Hz		3 x 400V 50Hz		3 x 400V 50Hz	
Nominal power	18 kW		18 kW		35 kW		35 kW	
Nominal current	26 A		26 A		50 A		50 A	
Pre-fuse max.	40 A		40 A		63 A		63 A	
Connection type	TN-S, 3+N+PE		TN-S, 3+N+PE		TN-S, 3+N+PE		TN-S, 3+N+PE	

LamaCaster H100 Mk3				LamaCaster E65 Mk1					
Metric		US		Metric		US			
Standard	Option	Standard	Option	Standard	Option 1	Option 2	Standard	Option 1	Option 2
4	6	4	6	4	6	6	4	6	6
50 mm		1.98"		50 mm			1.98"		
100 mm x 100 mm		3.94" x 3.94"		65 mm x 65mm	100 mm x 65mm	100 mm x 65mm	2.56" x 2.56"	3.94" x 2.56"	3.94" x 2.56"
20 tonnes		22 tons		4 tonnes			4.4 tons		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20 kW		20 kW		20 kW			20 kW		
105 kg/h		231 lbs/h		105 kg/h			231 lbs/h		
160 kg		353 lbs		160 kg			353 lbs		
3 bar		43.5 psi		3 bar			43.5 psi		
13 to 18 °C		55 to 65 °F		13 to 18 °C			55 to 65 °F		
6 bar		87 psi		6 bar			87 psi		
25 m³/h		14.7 cfm		25 m³/h			14.7 cfm		
n/a		n/a		n/a			n/a		
45		45		80			80		
130 bar	110 bar	1885 psi	1595 psi	n/a			n/a		
150 l		39.6 gal		n/a			n/a		
11 kW		14.75 HP		n/a			n/a		
40 mm	25.4 mm	1.57"	1"	25.4 mm	25.4 mm	40 mm	1"	1"	1.57"
63 mm		2.48"		80 mm	100 mm	100 mm	3.15"	3.94"	3.94"
45 mm		1.77"		45 mm			1.77"		
370 g	150 g	13 oz	5.3 oz	150 g	150 g	370 g	5.3 oz	5.3 oz	13 oz
220 g	90 g	7.8 oz	3.2 oz	90 g	90 g	220 g	3.2 oz	3.2 oz	7.8 oz
290 bar	350 bar	4206 psi	5076 psi	210 bar	270 bar	110 bar	3046 psi	3916 psi	1595 psi
1100 W		1100 W		1100 W			1100 W		
3 x 400V 50Hz		3 x 400V 50Hz		3 x 400V 50Hz			3 x 400V 50Hz		
35 kW		35 kW		55 kW			55 kW		
50 A		50 A		85 A			85 A		
63 A		63 A		125 A			125 A		
TN-S, 3+N+PE		TN-S, 3+N+PE		TN-S, 3+N+PE			TN-S, 3+N+PE		

Engineered for Purpose

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



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