

THINK TECH FORWARD

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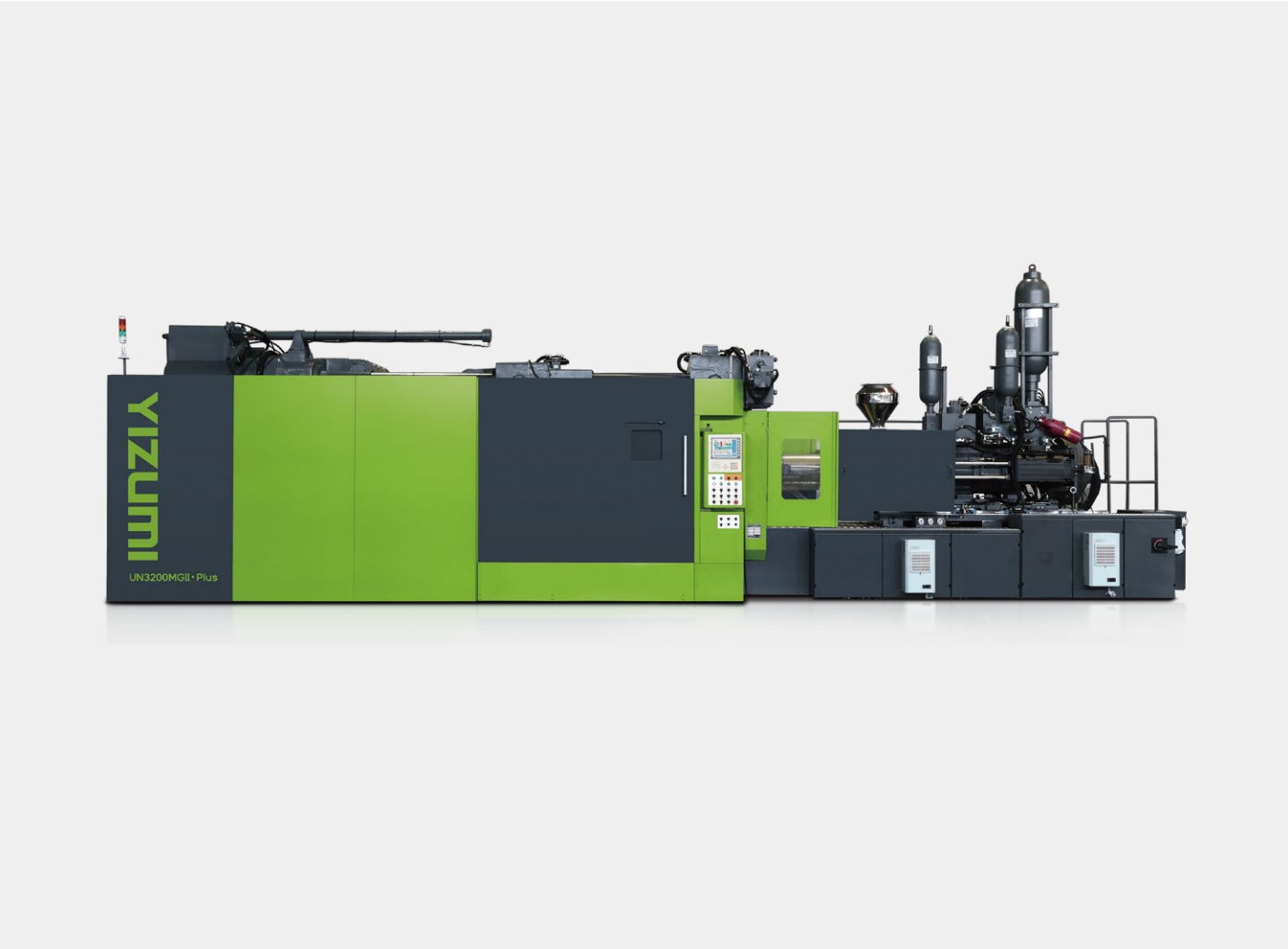
Designed by YIZUMI, July 2026

YIZUMI

MGII•Plus

400T-10000T
Thixomolding Machine

Evolved Mg for Lightweight Future



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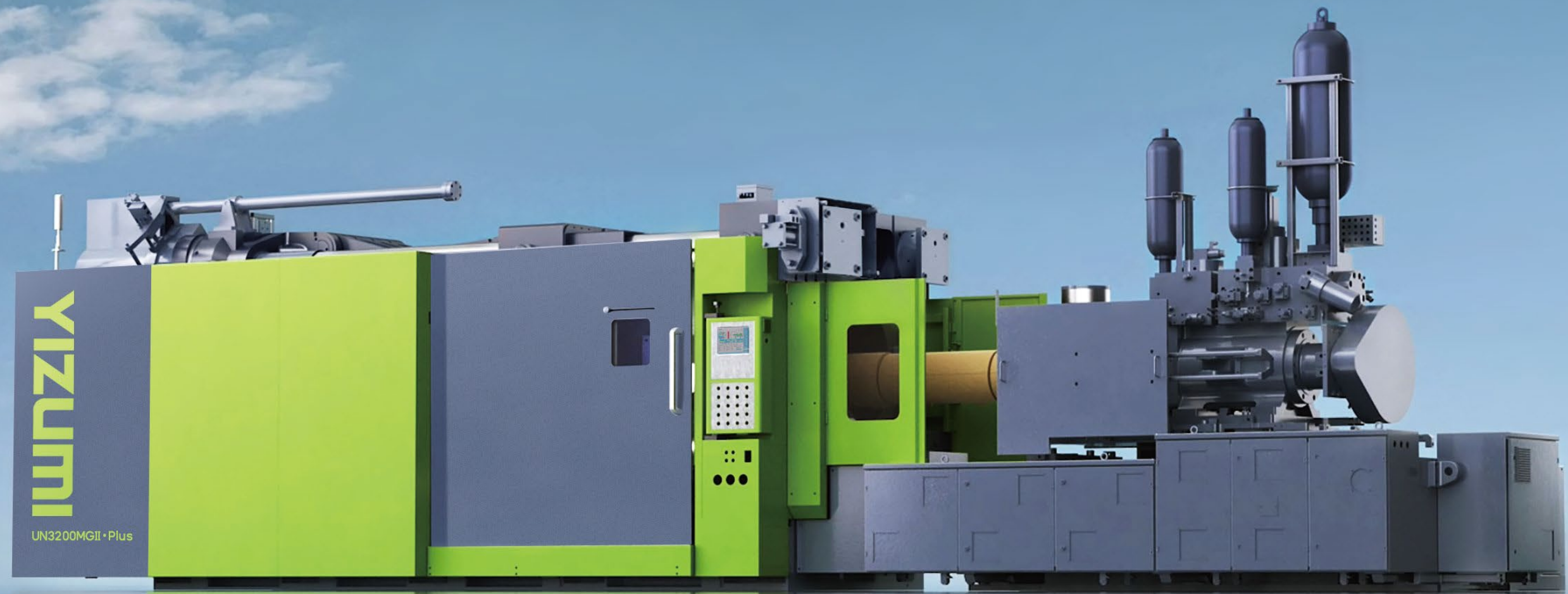
【DISCLAIMER】
[1] YIZUMI reserves the right to modify the product description in the catalogue. Specification might be changed without prior notice.
[2] The picture in the catalogue is for reference only. The real object should be considered as final.
[3] The data in the catalogue is obtained from internal testing in YIZUMI laboratory.
Please refer to the actual machine for the final data. YIZUMI reserves the right of final interpretation upon disputes and ambiguities.



Suitable for Large, Thin-Wall, and Thick-Wall Magnesium Alloy Components

Specializing in the efficient mass production of large, thin-wall, and thick-wall magnesium alloy parts, we offer one-stop lightweighting solutions for the automotive, 3C electronics, sports equipment and tools, low-altitude economy, and humanoid robotics. Our goal is to drive large-scale application and industrial upgrading of magnesium alloy.

MGII•Plus



MGII•Plus Series

Committed to becoming
the global leader
in Thixomolding

» THINK TECH FORWARD

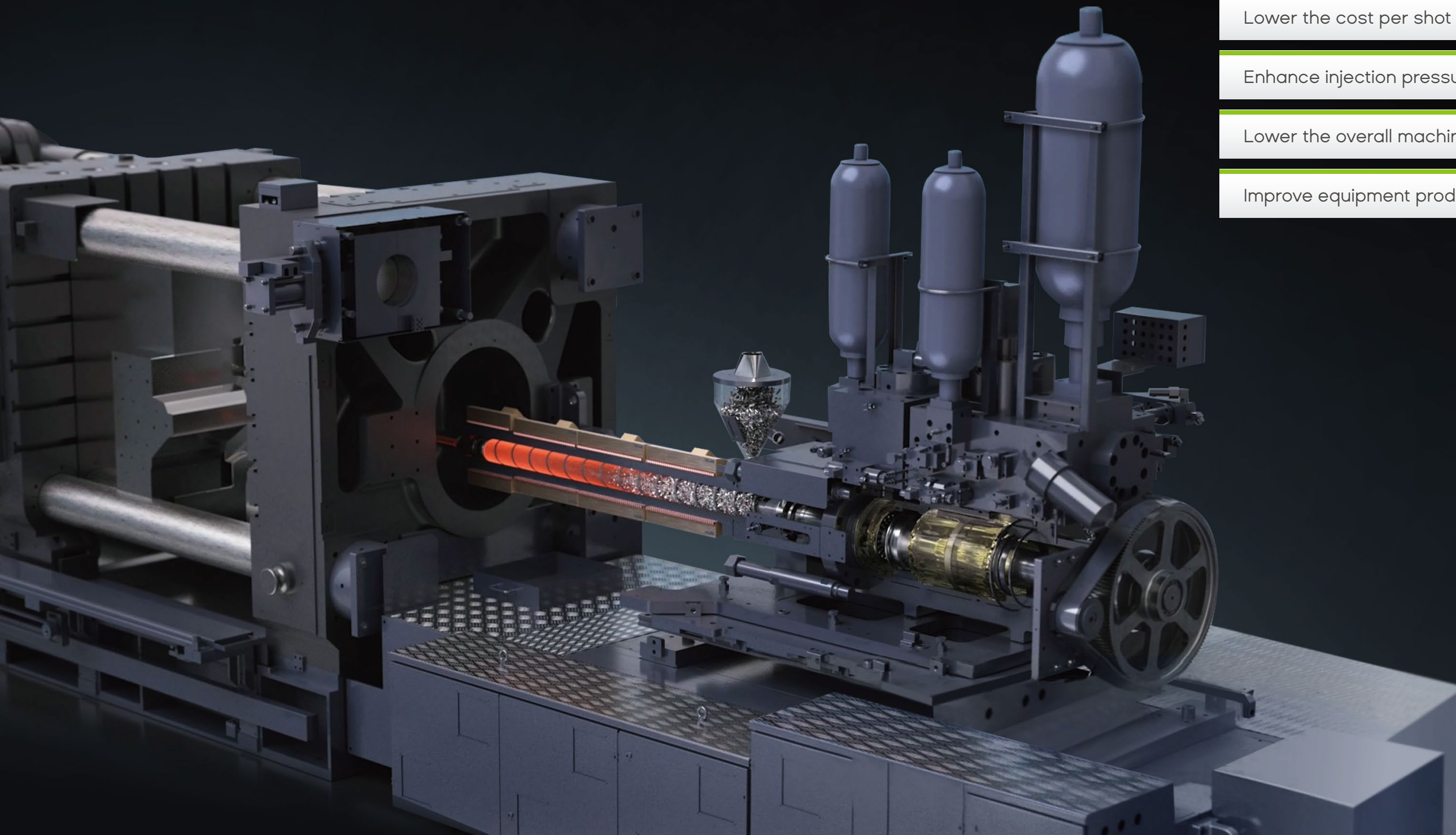
Increase max. effective shot weight

Lower the cost per shot

Enhance injection pressure and clamping force

Lower the overall machine energy consumption

Improve equipment productivity



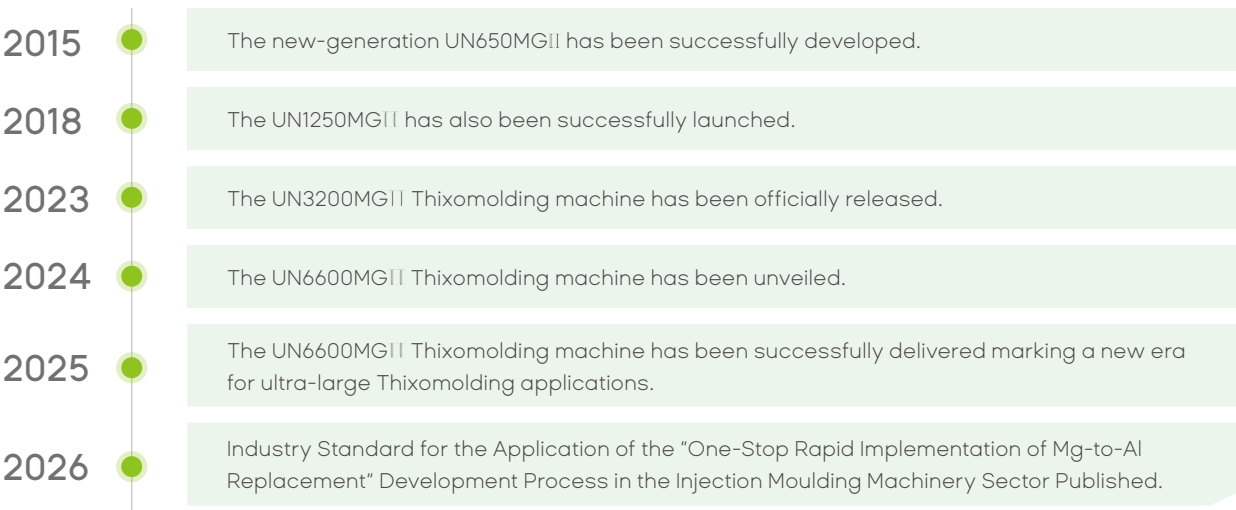
Technology Leadership

Breaking: From 0 to 1 in China
Rebuilding: Rise of Chinese Standards
Leading: Global New Benchmark for Thixomolding Technology



Tonnage Evolution

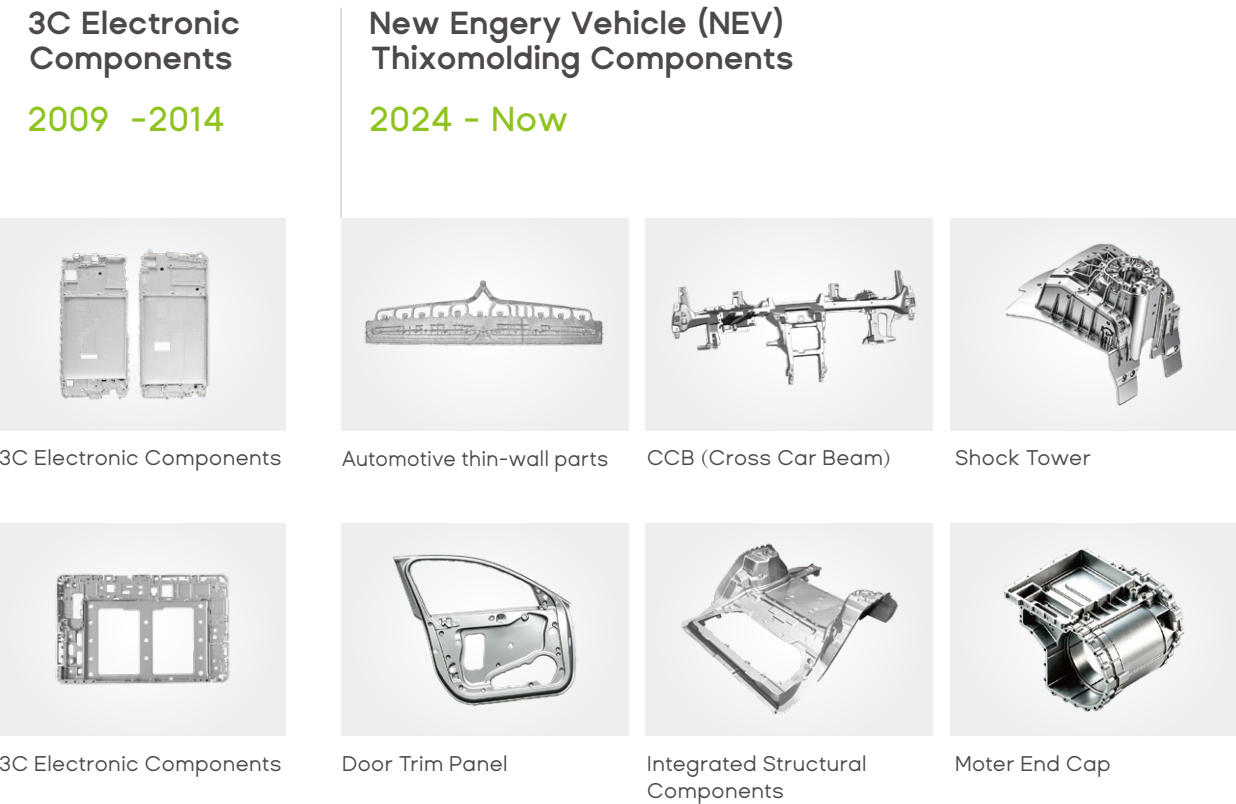
650T → 1250T → 3200T → 6600T → 10000T



» 17 Years of Globalized R&D

» 11 Years of Mass Production Validation

Mass-Production Validation Period



*Data were obtained under specific test conditions; actual performance may vary.
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Evolved Mg for Lightweight Future

YIZUMI's thixomolding machine integrates stability, safety, agility, and intelligence to enable the efficient, safe, and precise molding of complex magnesium alloy components. Combining high strength with lightweight characteristics, it empowers lightweight transformation across a wide range of industries, including automotive, 3C electronics, sports equipment and tools, low-altitude economy, and humanoid robotics.

MGII·Plus

Agility

With a high-speed servo valve and large-diameter accumulator, the system delivers ultra-fast response. The optimized hydraulic system, combined with a multi-directional moving injection unit, enables the equipment to be "big and agile", significantly enhancing production efficiency and dynamic performance.

Stability

The screw and barrel unit is made of European-standard special steel, offering excellent high-temperature and wear resistance. It is equipped with an infrared heating system and an intelligent temperature control system with a precision of $\pm 1^\circ\text{C}$, capable of withstanding temperatures up to 630°C . The servo-driven screw is equipped with internationally renowned hydraulic components, ensuring smooth motion, wide mold adaptability, and durability that exceeds industry standards.



Safety

The magnesium melt sealing system features a newly designed structure that eliminates the need for retraction during mass production and prevents leakage. It incorporates multiple monitoring and a closed-loop temperature control system to significantly enhance operational safety.

Intelligence

A high-performance industrial control controller enables precise, synchronized multi-zone control. Equipped with an intelligent monitoring system, it displays real-time injection curves and regulates temperature, meeting the demands of digitalized and intelligent manufacturing.

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Four Key Technologies

YIZUMI's Thixomolding machine achieves world-class performance in four key areas: clamping force, injection capability, melt supply capacity, and precision control. It is equipped with four core technologies — the Turbo high-speed injection system, Eco energy-efficient melting technology, Multi-Hot Runner system, and the Thixo-Core intelligent control center — enabling it to meet the demanding Thixomolding casting requirements of large structural, thin-wall, and thick-wall magnesium alloy components.

This solution supports automotive lightweighting, delivering high-precision and high-efficiency production, and accelerating the large-scale application of magnesium alloy.

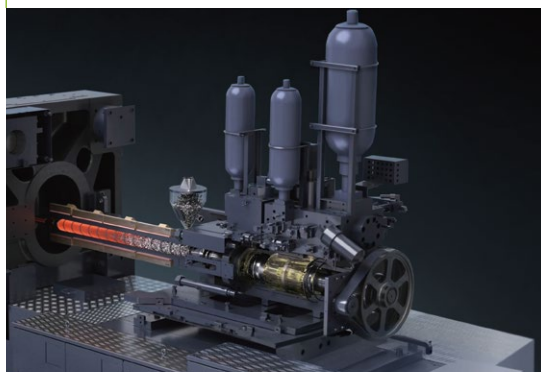
MGII·Plus Series

Thixomolding Machine

Turbo

Turbo High-Speed Injection System

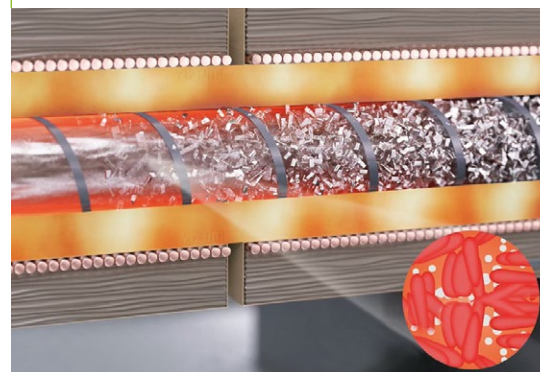
The large-diameter high-speed servo valve controls the oil inlet valve opening with a 12 ms rapid response time. The injection piston acceleration can reach up to 20G, paired with an ultra-large capacity accumulator, delivering powerful and efficient injection performance.



Eco

Eco Energy-Efficient Melting Technology

Utilizing European-standard special steel (resistant up to 630 °C) combined with infrared heating technology and high-torque servo drive, this technology achieves highly efficient and energy-saving melting with an extended service life.

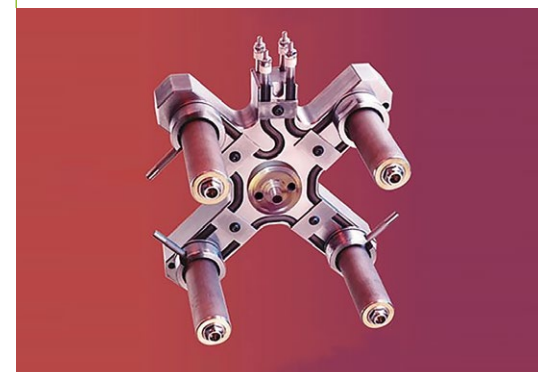


Multi-Hot Runner

Multi-Hot Runner Technology

Enables precise and multiple melt deliveries, uniform temperature and pressure distribution within the mold cavities, reducing casting waste by 30% and eliminating part deformation.

*This technology is patented as a multi-gating system
(Chinese Patent No. ZL202010692439.0)



Thixo-Core

Intelligent Control Technology

Equipped with a high-performance controller, the system achieves ± 0.1 mm precision control and real-time process monitoring. Its modular design and intelligent connectivity enable a fully digital solution for the entire YIZUMI Thixomolding process.



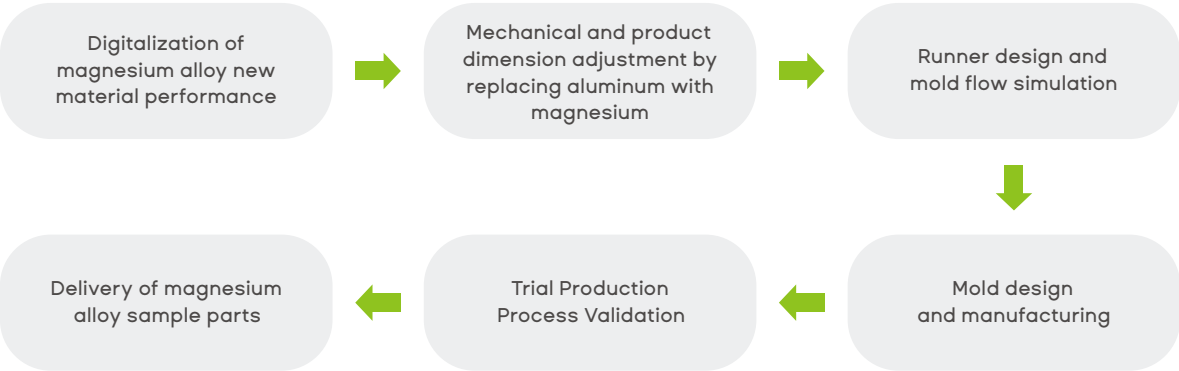
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One-Stop Rapid Implementation Service for Magnesium Alloy Product Development

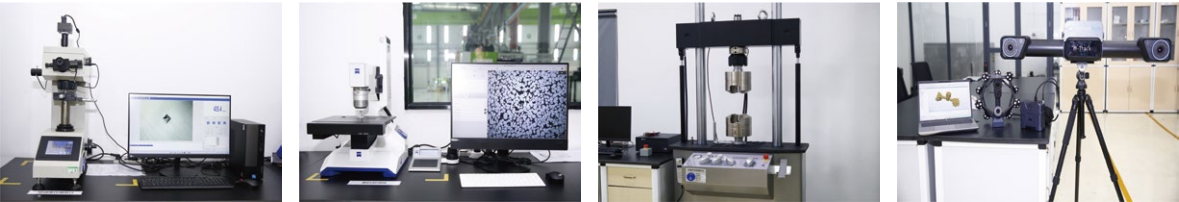
From Concept to Delivery

YIZUMI provides a one-stop rapid implementation service for magnesium alloy product development. The service covers the entire process—from Thixomolding sample preparation, material property testing and data validation, product modeling and 3D optimization, mechanical and process simulation, mold design and manufacturing, to trial casting and sample parts delivery.

By offering an integrated solution that combines equipment with material, design, and manufacturing expertise, YIZUMI helps reduce development risks and ensures the rapid and high-quality production of magnesium alloy structural components.



The material laboratory operates in accordance with CNAS standards, establishing a quality management system that meets international standards, providing scientific and accurate test results, and offering testing services for equipment and component research & development as well as customer product development.



Yi+ “Thixomolding On-Site Steward Service”

Full Lifecycle Safeguard for
Thixomolding Mass Production

YIZUMI’s original “Thixomolding On-Site Steward Service” provides comprehensive, hands-on support throughout the entire process. Acting as a technical steward, it accompanies the project from start to finish, ensuring customers achieve “zero-barrier” rapid mass production.



Exclusive Steward Service Package

1.

On-site hands-on support
Technical support from trial casting and machine setup to process optimization.
2.

Practical training system
Hands-on teaching of equipment operation and key process know-how.
3.

Remote expert support
Real-time connection with YIZUMI experts for instant technical issue resolution.
4.

Standardized delivery kit
A comprehensive package featuring trial casting reports, parameter libraries, and process white papers — enabling a standardized, scalable mass production model.

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UN400MGII • Plus-D60/D68

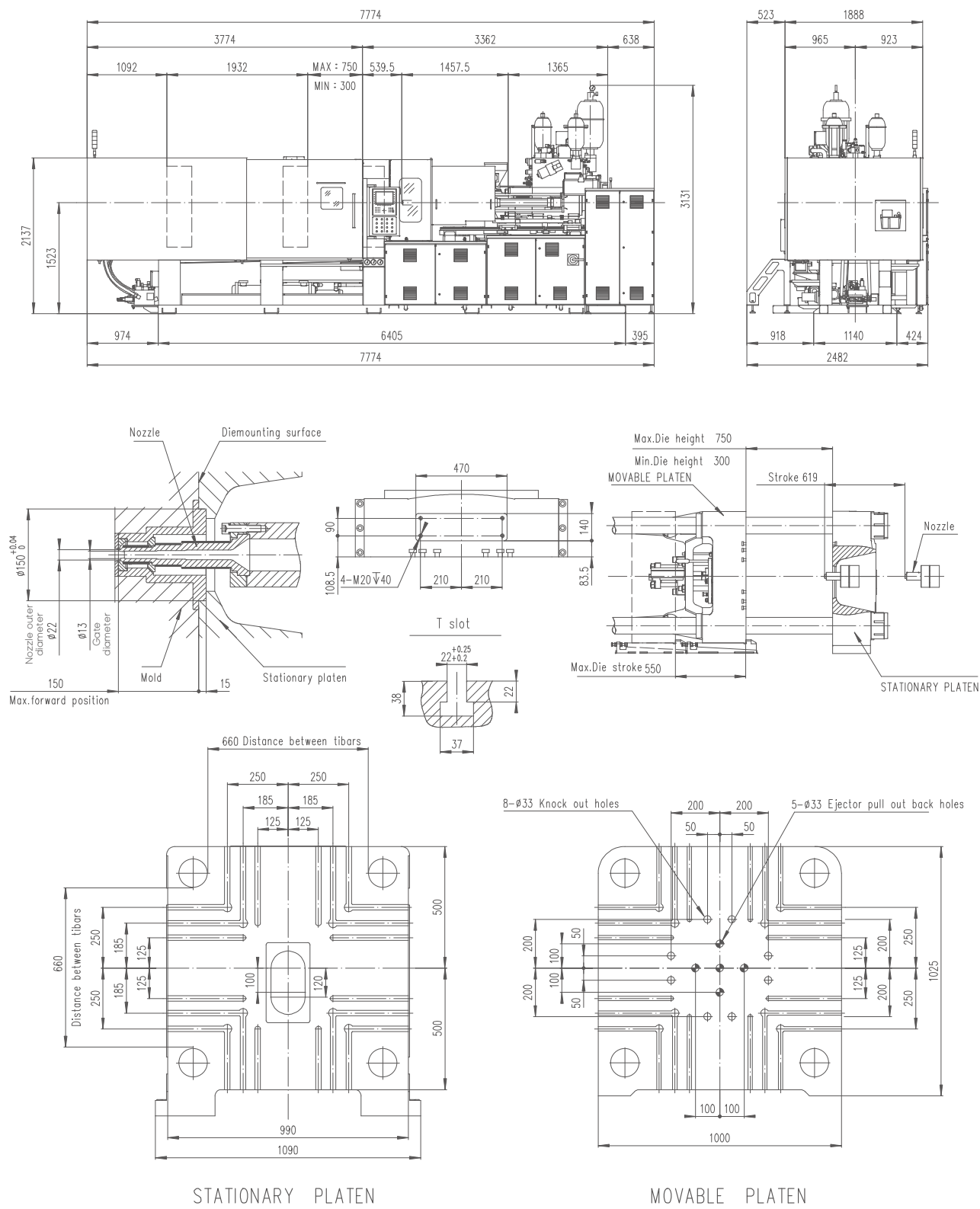
Thixomolding Machine

Specifications

Description	UNIT	UN400MGII • Plus	
Screw diameter	mm	60	68
Injection pressure	Mpa	117.7	91.6
Theoretical injection volume	cm³	424	544
Theoretical max. shot weight	g	763.2	979.2
Theoretical max. injection rate	cm³·s ⁻¹	14133 (5m/s)	18149 (5m/s)
Screw rotation speed	r·min ⁻¹	10-250	
Nozzle size	mm	Φ13	
Injection stroke	mm	150	
Nozzle protrusion	mm	0-150	
Injection position	mm	0 , -100 , -120	
Clamping force	KN	4000	
Opening stroke	mm	550	
Mold height	mm	300-750	
Distance between tie bars (H×V)	mm	660×660	
Platen size (H×V)	mm	1000×1000	
Locating ring size	mm	Φ150	
Mold assembly method		T slot	
Ejector force	KN	167	
Ejector stroke	mm	80	
Pump motor	KW	55.7	
Barrel heater	KW	31.8	
Servo motor	KW	22	
Total power capacity	KW	109.5	

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Machine & Platen Dimensions



UN950MGII • Plus-D110

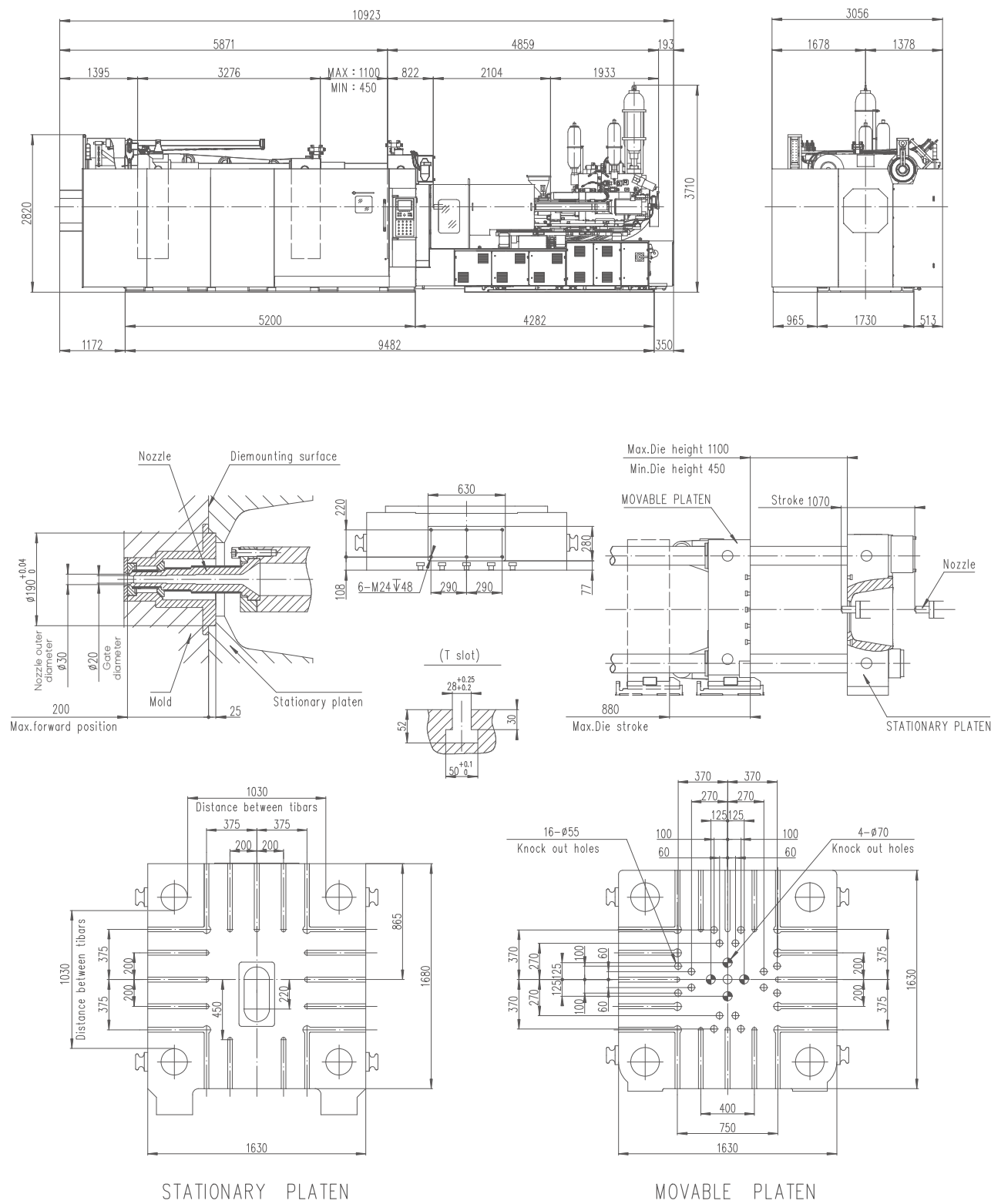
Thixomolding Machine

Specifications

Description	UNIT	UN950MGII • Plus
Screw diameter	mm	110
Injection pressure	Mpa	74
Theoretical injection volume	cm³	2851
Theoretical max. shot weight	g	5131.8
Theoretical max. injection rate	cm³·s ⁻¹	42750 (5m/s)
Screw rotation speed	r·min ⁻¹	10-120
Nozzle size	mm	Φ20
Injection stroke	mm	300
Nozzle protrusion	mm	0-200
Injection position	mm	0,-220
Clamping force	KN	9500
Opening stroke	mm	880
Mold height	mm	450-1100
Distance between tie bars (H×V)	mm	1030×1030
Platen size (H×V)	mm	1630×1630
Locating ring size	mm	Φ190
Mold assembly method		T slot
Ejector force	KN	500
Ejector stroke	mm	200
Pump motor	KW	98.6
Barrel heater	KW	86.9
Servo motor	KW	31.4
Total power capacity	KW	227.9

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Machine & Platen Dimensions



UN1350MGII • Plus-D120

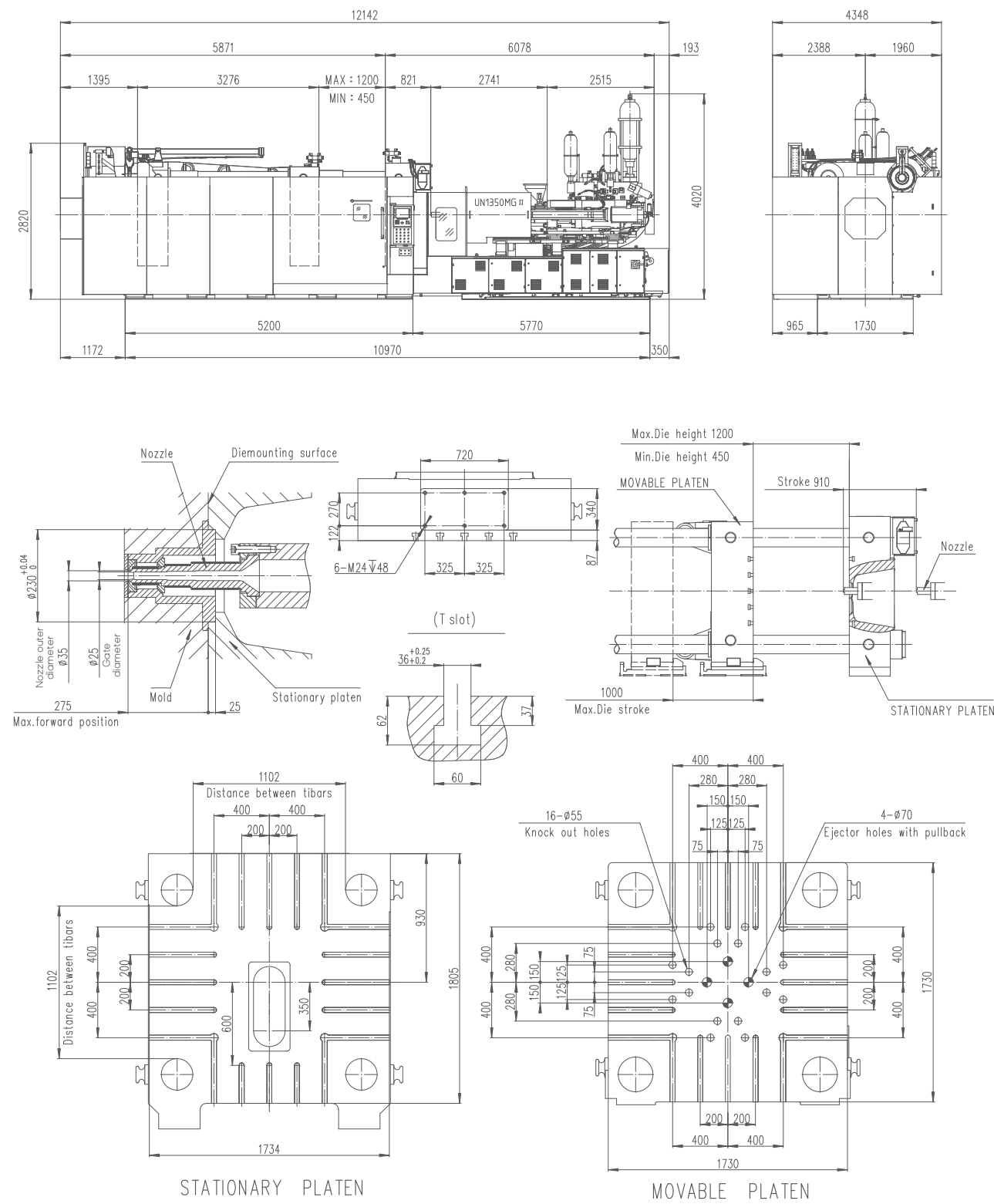
Thixomolding Machine

Specifications

Description	UNIT	UN1350MGII • Plus
Screw diameter	mm	120
Injection pressure	Mpa	76
Theoretical injection volume	cm³	3958
Theoretical max. shot weight	g	7125
Theoretical max. injection rate	cm³·s ⁻¹	56556 (5m/s)
Screw rotation speed	r·min ⁻¹	10-120
Nozzle size	mm	Φ25
Injection stroke	mm	350
Nozzle protrusion	mm	0-275
Injection position	mm	0,-350
Clamping force	KN	13500
Opening stroke	mm	1000
Mold height	mm	450-1200
Distance between tie bars (H×V)	mm	1100×1100
Platen size (H×V)	mm	1730×1730
Locating ring size	mm	Φ230
Mold assembly method		T slot
Ejector force	KN	565
Ejector stroke	mm	200
Pump motor	KW	98.6
Barrel heater	KW	102.7
Servo motor	KW	42.4
Total power capacity	KW	243.7

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Machine & Platen Dimensions



UN2200MGII • Plus-D150

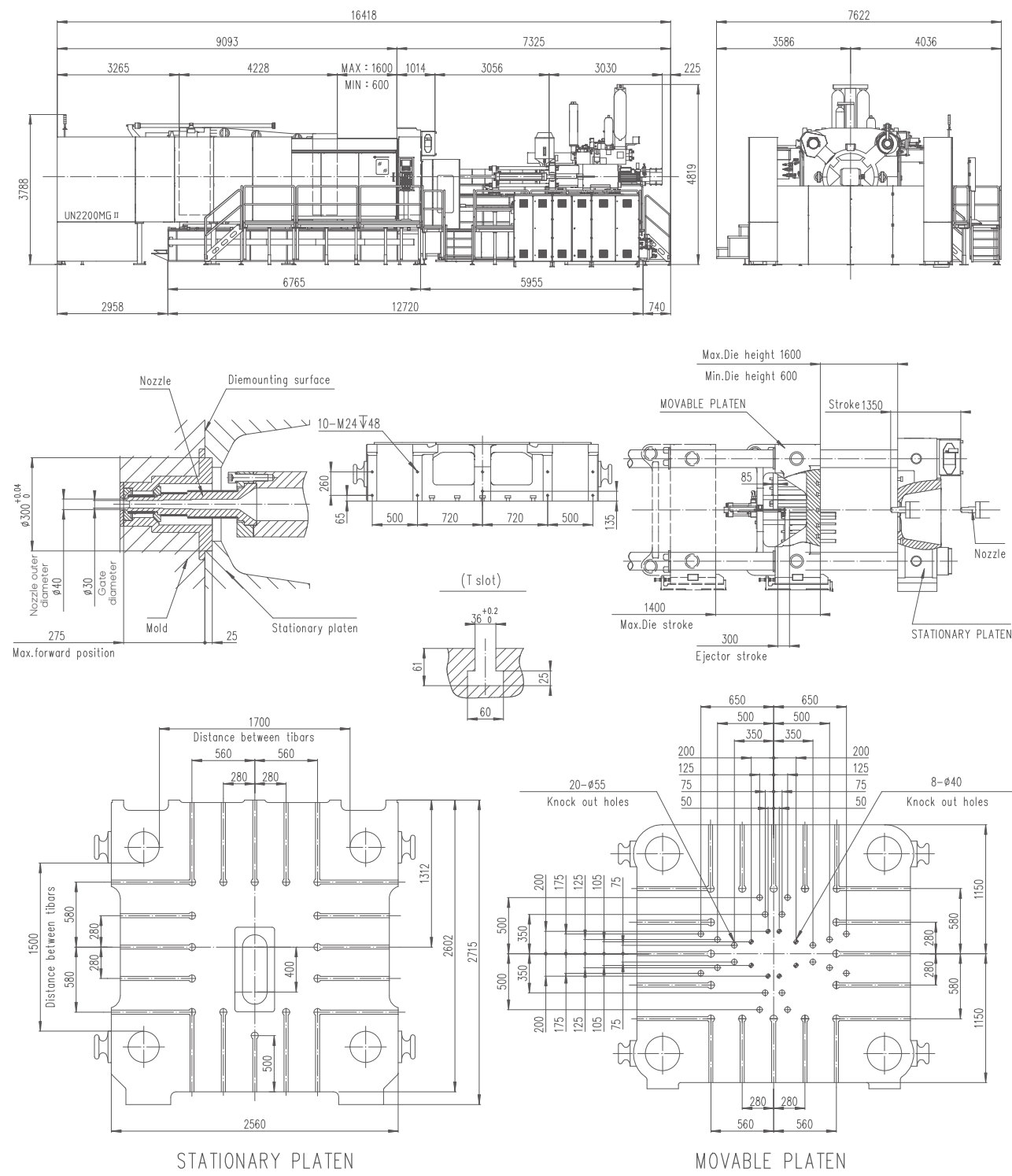
Thixomolding Machine

Specifications

Description	UNIT	UN2200MGII • Plus
Screw diameter	mm	150
Injection pressure	Mpa	100
Theoretical injection volume	cm³	7068
Theoretical max. shot weight	g	12722.4
Theoretical max. injection rate	cm³·s ⁻¹	79521 (4.5m/s)
Screw rotation speed	r·min ⁻¹	10-94
Nozzle size	mm	Φ30
Injection stroke	mm	400
Nozzle protrusion	mm	0-275
Injection position	mm	0,-400
Clamping force	KN	22000
Opening stroke	mm	1400
Mold height	mm	600-1600
Distance between tie bars (H×V)	mm	1700×1500
Platen size (H×V)	mm	2440×2300
Locating ring size	mm	Φ300
Mold assembly method		T slot
Ejector force	KN	650
Ejector stroke	mm	300
Pump motor	KW	177
Barrel heater	KW	276.2
Servo motor	KW	57.3
Total power capacity	KW	510.5

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Machine & Platen Dimensions



UN5000MGII • Plus-D200/230

Thixomolding Machine

Specifications

Description	UNIT	UN5000MGII • Plus	
Screw diameter	mm	200	230
Theoretical injection volume	cm³	15708	22851
Theoretical max. shot weight	g	28274.4	41130
Clamping force	KN	50000	
Opening stroke	mm	1900	
Mold height	mm	1100-2200	
Distance between tie bars (H×V)	mm	1950×1950	

UN8000MGII • Plus-2×D230

Thixomolding Machine

Specifications

Description	UNIT	UN8000MGII • Plus
Screw diameter	mm	230×2
Theoretical injection volume	cm³	22851×2
Theoretical max. shot weight	g	41130×2
Clamping force	KN	80000
Opening stroke	mm	2600
Mold height	mm	1400-2500
Distance between tie bars (H×V)	mm	2600×2600

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UN7000MGII • Plus-2×D230

Thixomolding Machine

Specifications

Description	UNIT	UN7000MGII • Plus	
Screw diameter	mm	200×2	230×2
Theoretical injection volume	cm³	15708×2	22851×2
Theoretical max. shot weight	g	28274.4×2	41130×2
Clamping force	KN	70000	
Opening stroke	mm	2300	
Mold height	mm	1200-2400	
Distance between tie bars (H×V)	mm	2500×2500	

UN10000MGII • Plus-2×D230

Thixomolding Machine

Specifications

Description	UNIT	UN10000MGII • Plus
Screw diameter	mm	230×2
Theoretical injection volume	cm³	22851×2
Theoretical max. shot weight	g	41130×2
Clamping force	KN	100000
Opening stroke	mm	2600
Mold height	mm	1600-2600
Distance between tie bars (H×V)	mm	2700×2700

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