

THINK TECH FORWARD

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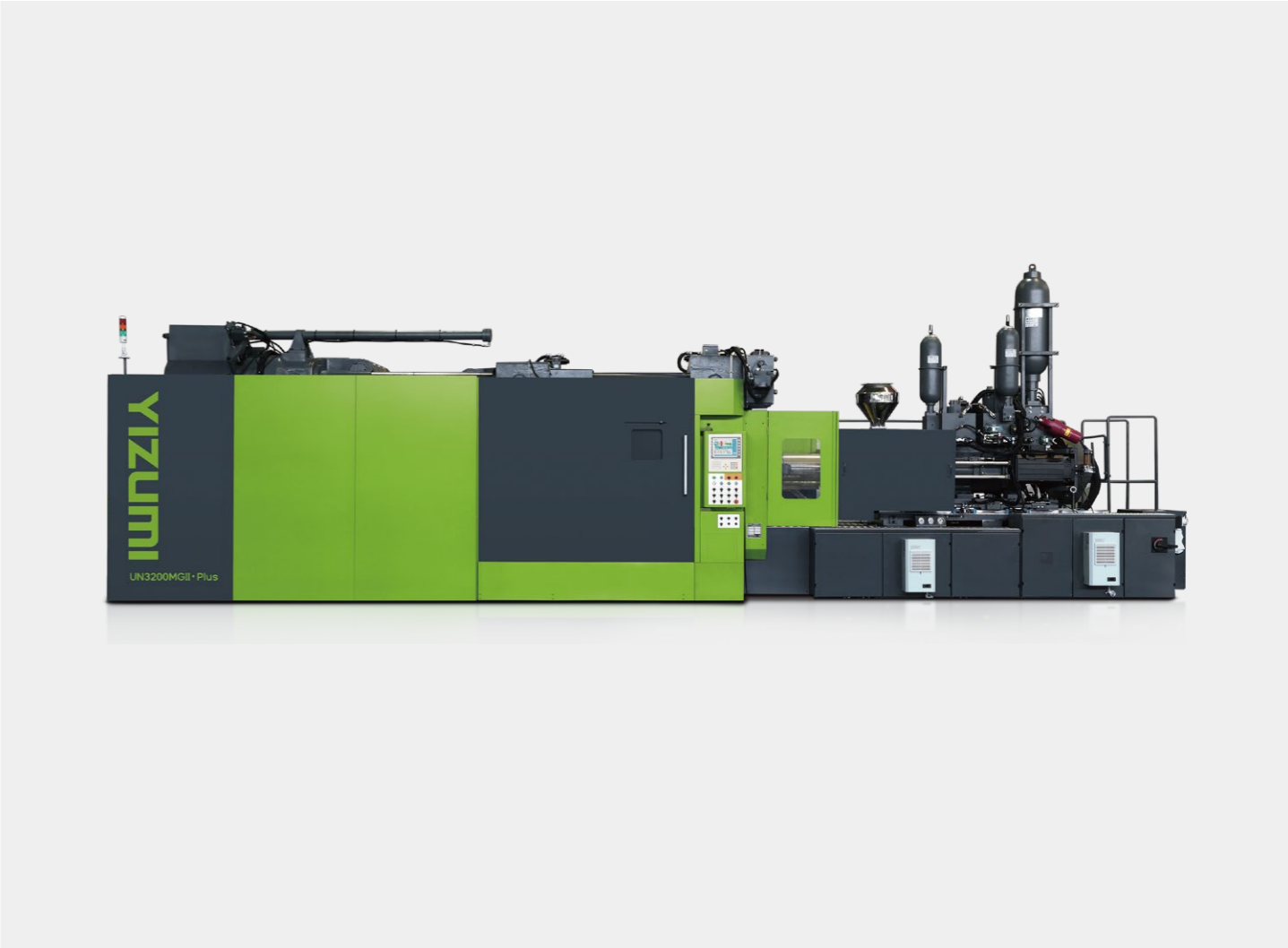
YIZUMI

Designed by YIZUMI, September 2025

MGII•Plus

400T-10000T
Thixomolding Machine

Evolved Mg for Lightweight Future



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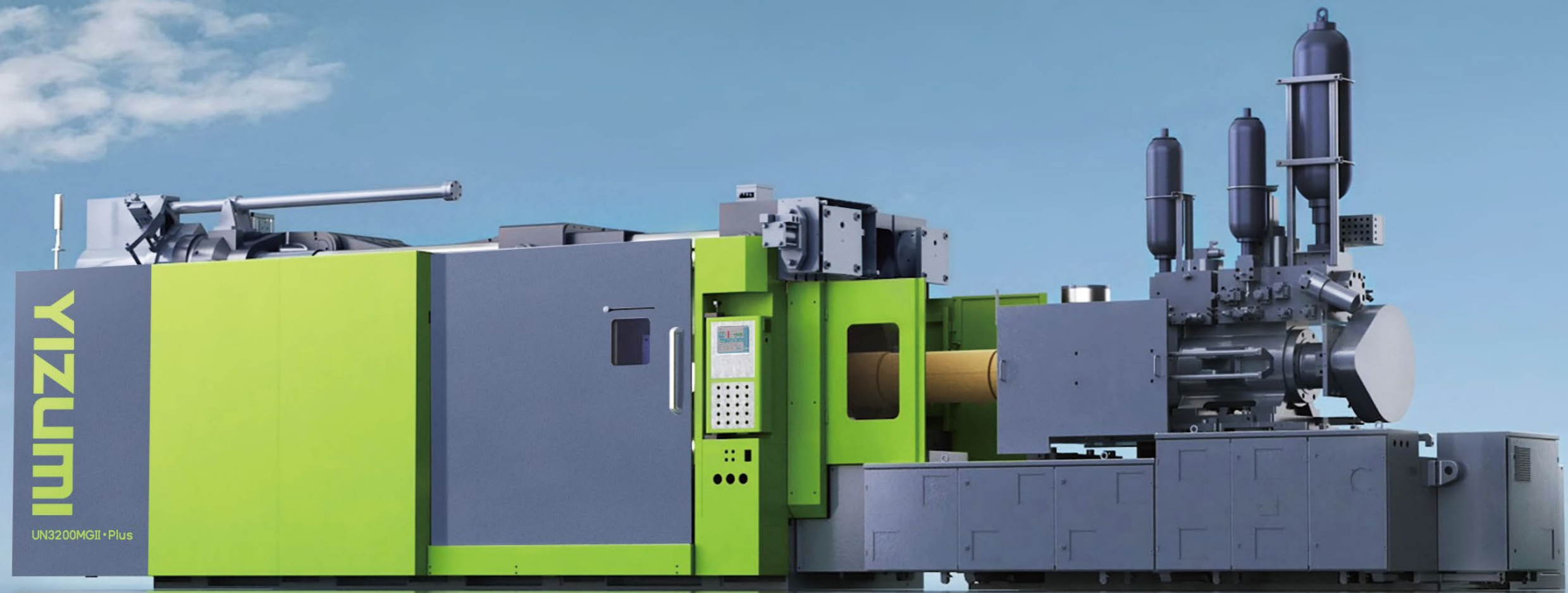
【DISCLAIMER】
[1] YIZUMI reserves the right to modify the product description in the catalogue. Specification might be changed without prior notice.
[2] The picture in the catalogue is for reference only. The real object should be considered as final.
[3] The data in the catalogue is obtained from internal 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

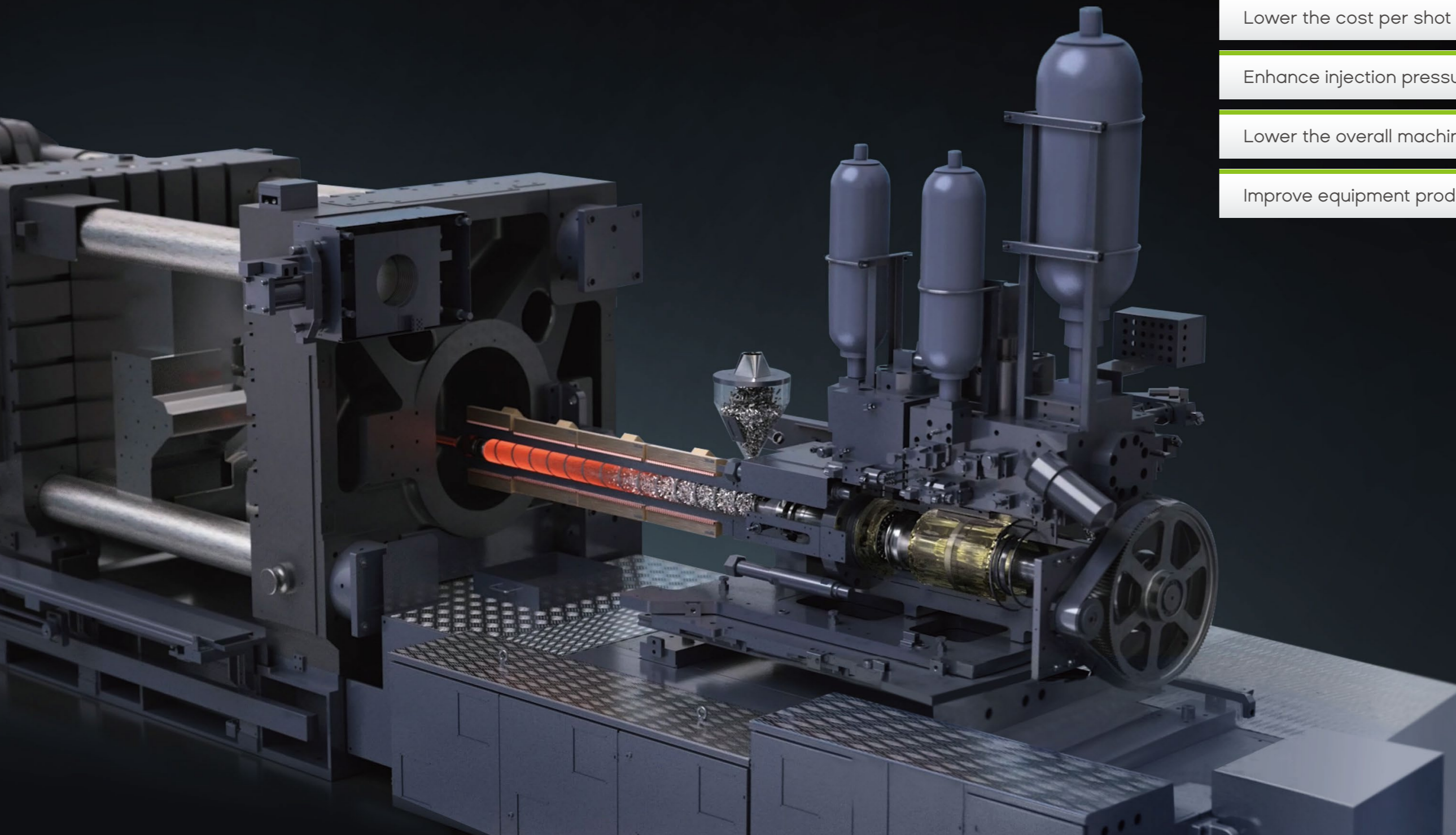
Increase max. effective shot weight

Lower the cost per shot

Enhance injection pressure and clamping force

Lower the overall machine energy consumption

Improve equipment productivity



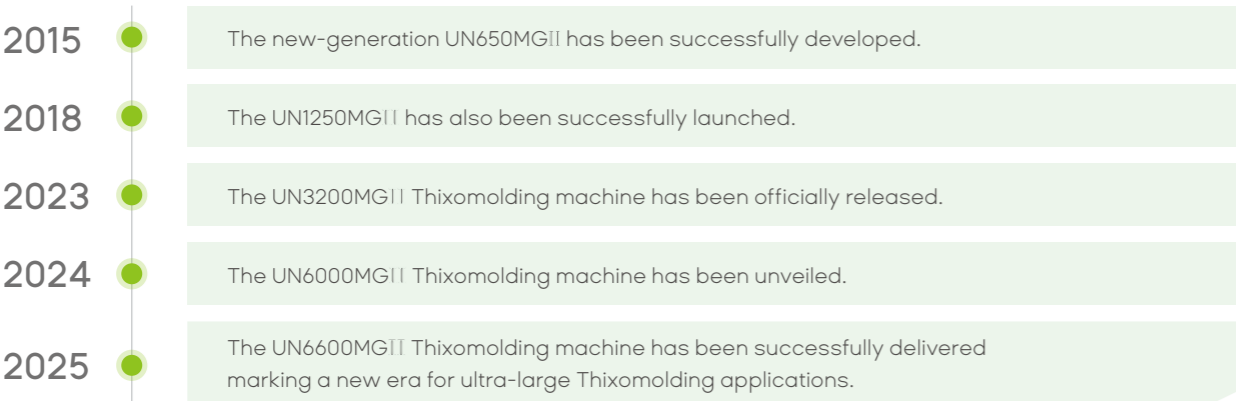
Technology Leadership

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



- » 16 Years of Globalized R&D
- » 10 Years of Mass Production Validation
- » 5 Million Molding Cycles Proven by Global Cases

Mass-Production Validation Period



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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.

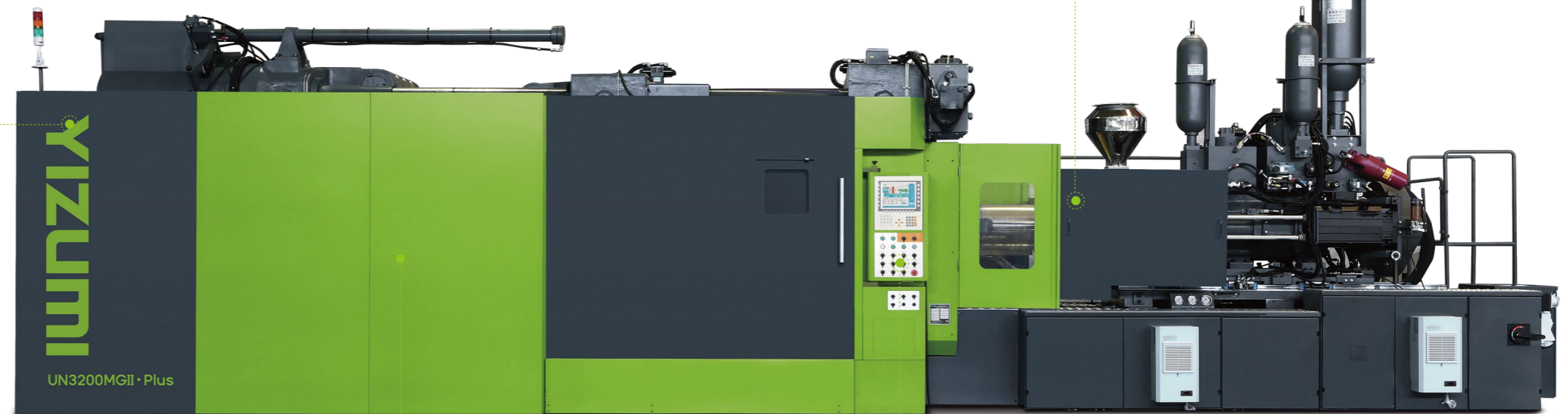
MGII·Plus

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.

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.

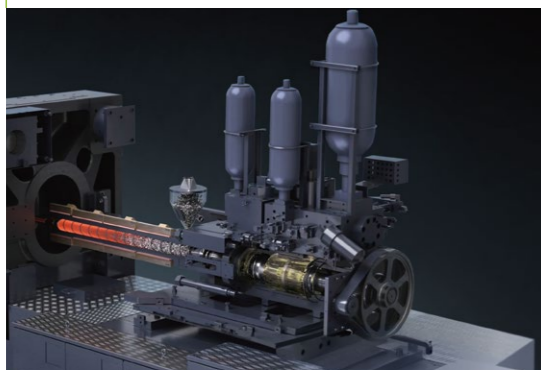
MGII·Plus Series

Thixomolding Machine

Turbo

Turbo High-Speed Injection System

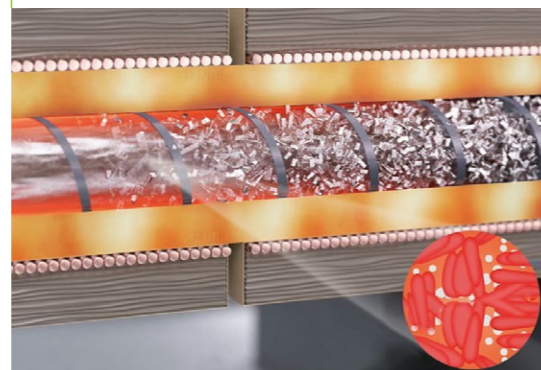
The large-diameter high-speed servo valve controls the oil inlet valve opening with a 12 ms rapid response time. The injection piston acceleration can reach up to 20G, paired with an ultra-large capacity accumulator, delivering powerful and efficient injection performance.



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.

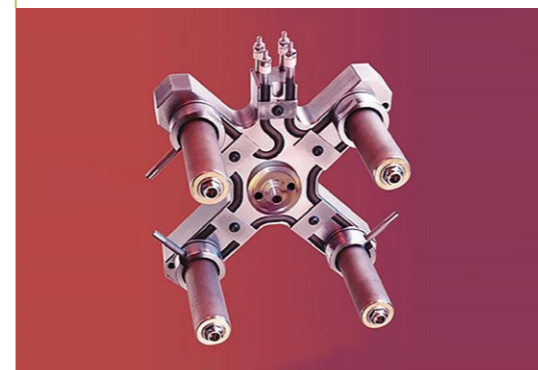


Multi-Hot Runner

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 (Patent No.: 2025050100300960).



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.

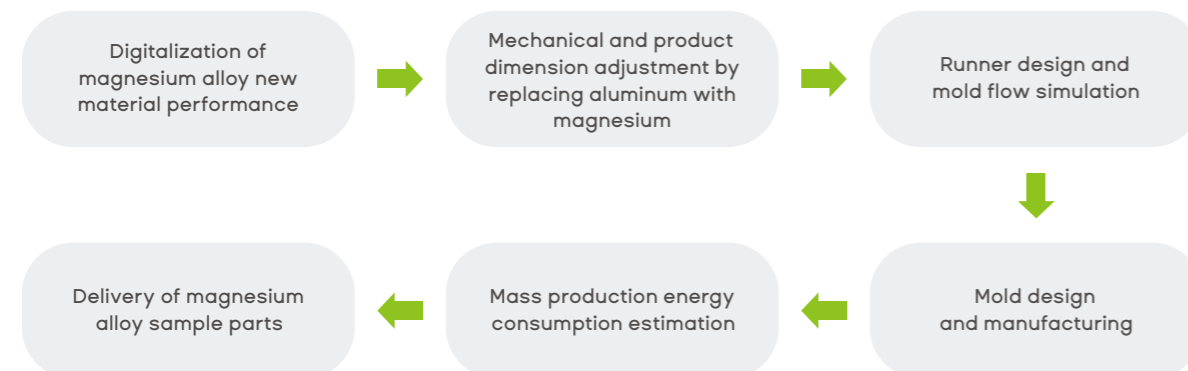


One-Stop Rapid Implementation Service for Magnesium Alloy Product Development

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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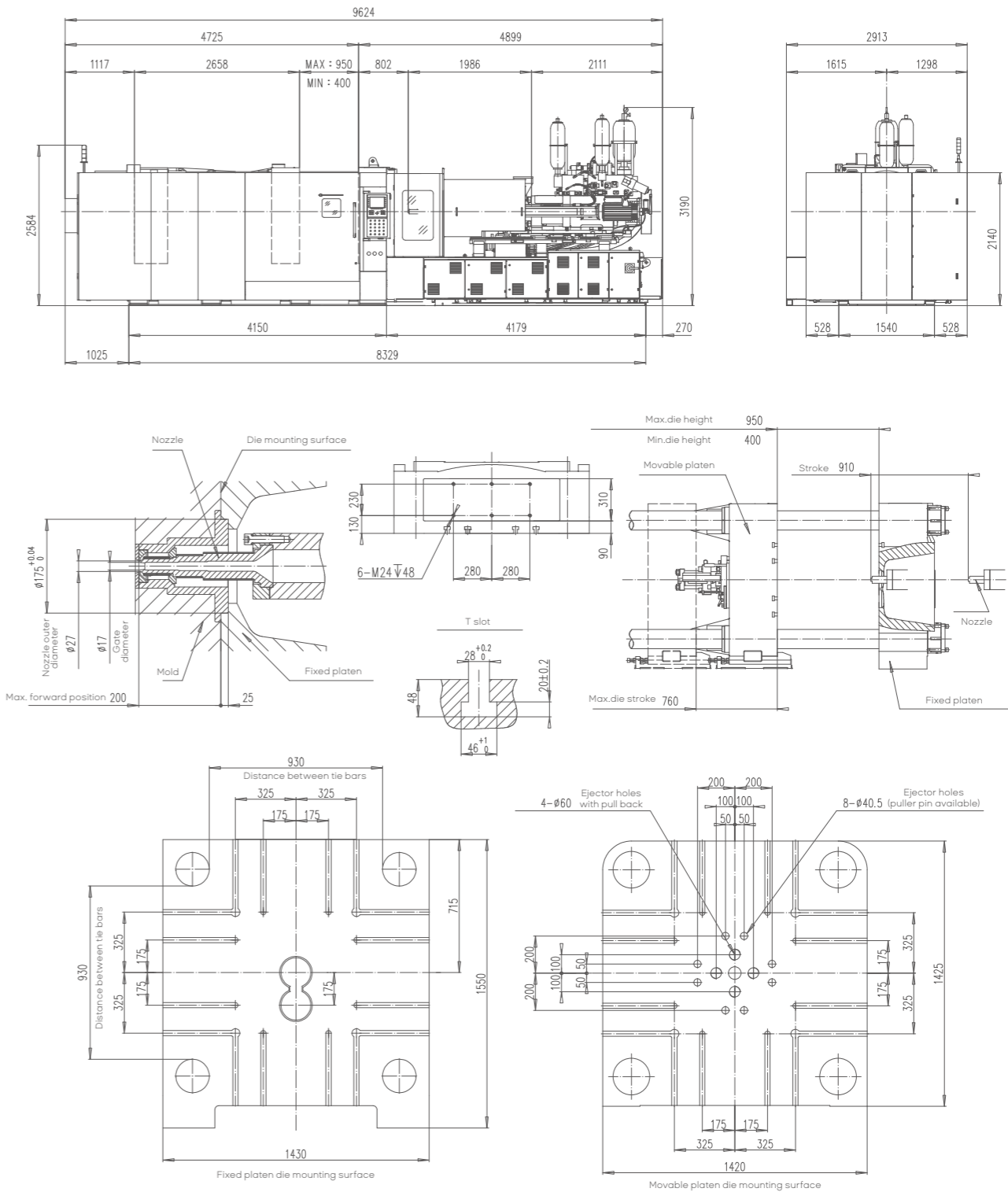
UN750MGII • Plus-D92

Thixomolding Machine

Specifications

Description	UNIT	UN750MGII • Plus
Screw diameter	mm	92
Injection pressure	Mpa	79
Theoretical injection volume	cm³	1662
Theoretical max. shot weight	g	2991.4
Available max. shot weight	g	1600
Theoretical max. injection rate	cm³·s ⁻¹	33251(5m/s)
Screw rotation speed	r·min ⁻¹	10-300
Nozzle size	mm	Φ17
Injection stroke	mm	250
Nozzle protrusion	mm	0-200
Injection position	mm	0,-175
Clamping force	KN	7500
Opening stroke	mm	760
Mold height	mm	400-950
Distance between tie bars (H×V)	mm	930×930
Platen size (H×V)	mm	1430×1430
Locating ring size	mm	Φ175
Mold assembly method		T slot
Ejector force	KN	212
Ejector stroke	mm	125
Pump motor	KW	75
Barrel heater	KW	58.4
Servo motor	KW	42.4
Total power capacity	KW	175.8

Machine & Platen Dimensions



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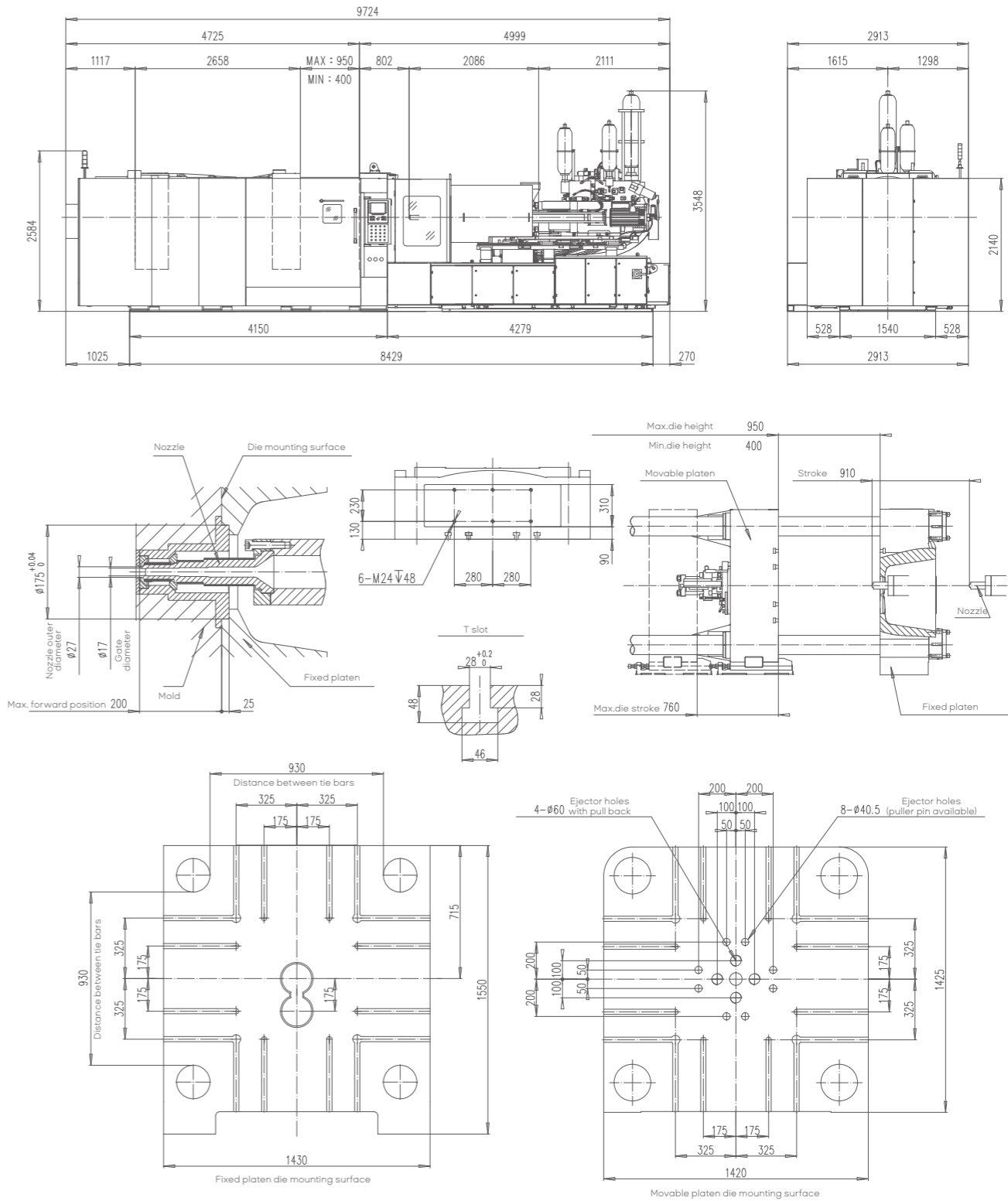
UN850MGII • Plus-D100

Thixomolding Machine

Specifications

Description	UNIT	UN850MGII • Plus
Screw diameter	mm	100
Injection pressure	Mpa	75
Theoretical injection volume	cm ³	1962
Theoretical max. shot weight	g	3534.3
Available max. shot weight	g	2000
Theoretical max. injection rate	cm ³ ·s ⁻¹	35325(5m/s)
Screw rotation speed	r·min ⁻¹	10-300
Nozzle size	mm	Φ20
Injection stroke	mm	250
Nozzle protrusion	mm	0-200
Injection position	mm	0, -175
Clamping force	KN	8500
Opening stroke	mm	760
Mold height	mm	400-950
Distance between tie bars (H×V)	mm	930×930
Platen size (H×V)	mm	1430×1430
Locating ring size	mm	Φ175
Mold assembly method		T slot
Ejector force	KN	212
Ejector stroke	mm	125
Pump motor	KW	75
Barrel heater	KW	58.4
Servo motor	KW	42.4
Total power capacity	KW	175.8

Machine & Platen Dimensions



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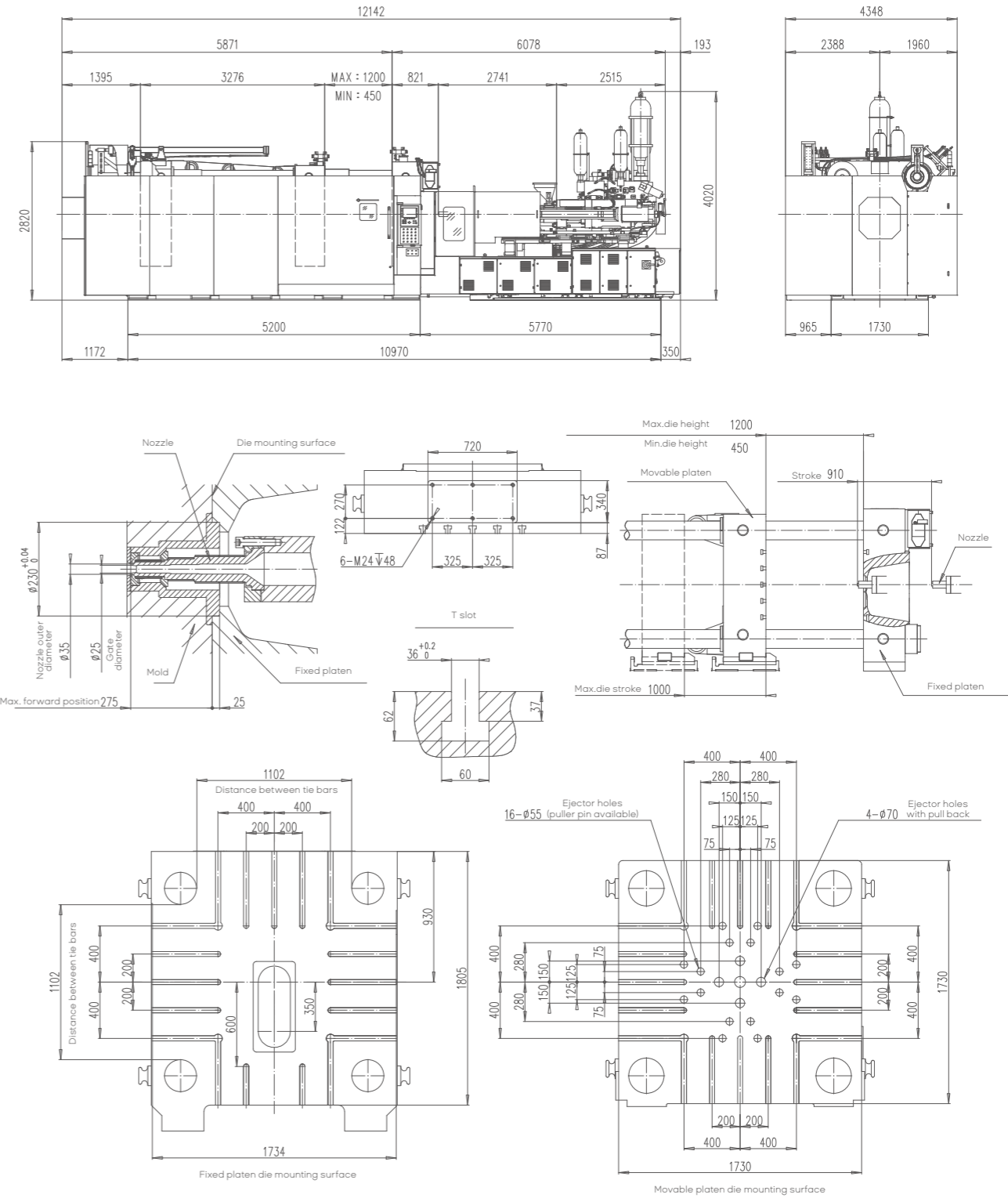
UN1350MGII • Plus-D120

Thixomolding Machine

Specifications

Description	UNIT	UN1350MGII • Plus
Screw diameter	mm	120
Injection pressure	Mpa	76
Theoretical injection volume	cm ³	3958
Theoretical max. shot weight	g	7125
Available max. shot weight	g	3900
Theoretical max. injection rate	cm ³ ·s ⁻¹	56556(5m/s)
Screw rotation speed	r·min ⁻¹	10-166
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	85
Barrel heater	KW	84.4
Servo motor	KW	42.4
Total power capacity	KW	211.8

Machine & Platen Dimensions



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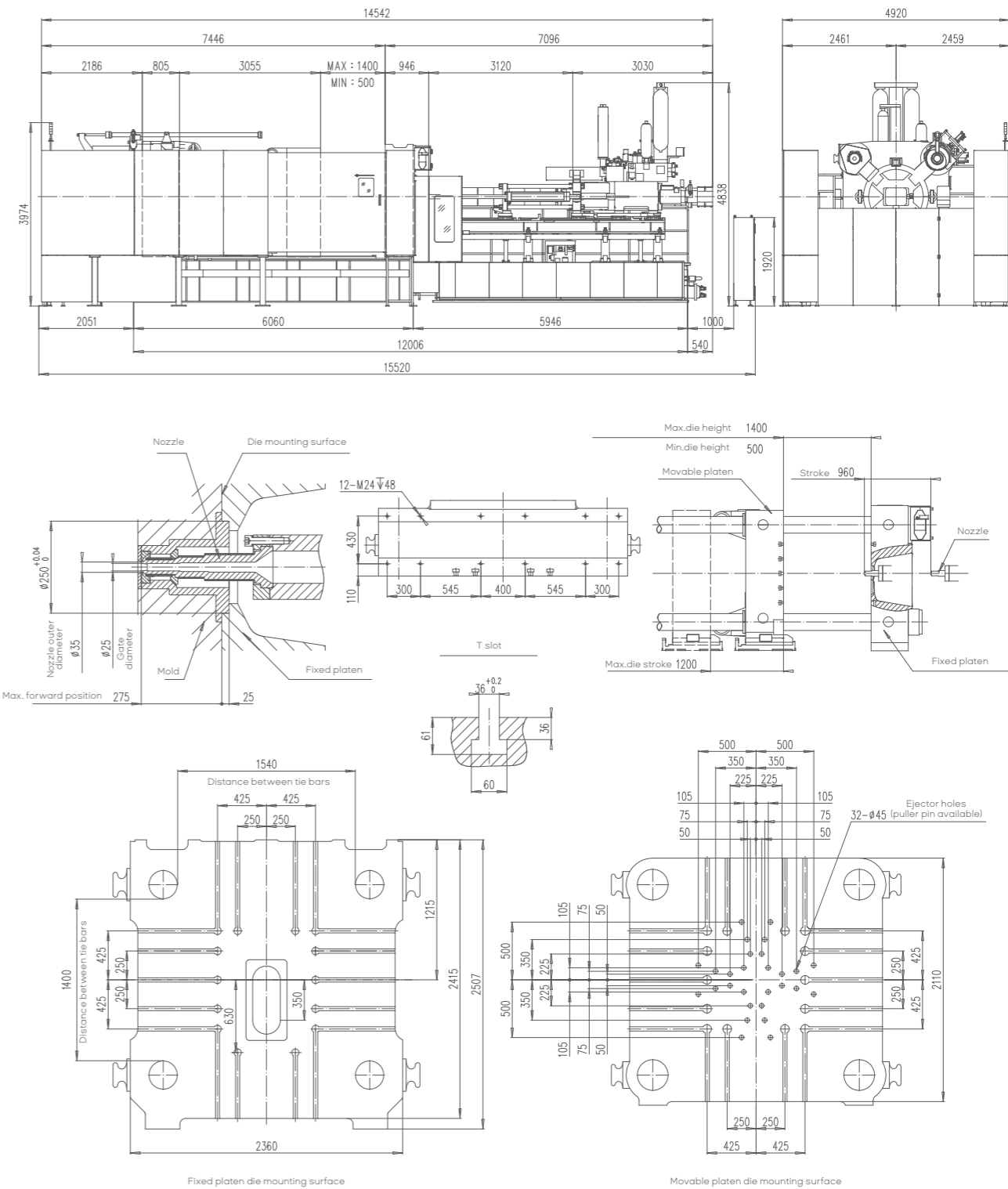
UN1650MGII • Plus-D130

Thixomolding Machine

Specifications

Description	UNIT	UN1650MGII • Plus
Screw diameter	mm	130
Injection pressure	Mpa	100
Theoretical injection volume	cm³	5309
Theoretical max. shot weight	g	9556.7
Available max. shot weight	g	5500
Theoretical max. injection rate	cm³·s ⁻¹	53093(4m/s)
Screw rotation speed	r·min ⁻¹	10-166
Nozzle size	mm	Φ30
Injection stroke	mm	400
Nozzle protrusion	mm	0-275
Injection position	mm	0,-350
Clamping force	KN	17000
Opening stroke	mm	1200
Mold height	mm	500-1400
Distance between tie bars (H×V)	mm	1540×1400
Platen size (H×V)	mm	2340×2040
Locating ring size	mm	Φ250
Mold assembly method		T slot
Ejector force	KN	650
Ejector stroke	mm	250
Pump motor	KW	177.3
Barrel heater	KW	127
Servo motor	KW	42.4
Total power capacity	KW	346.7

Machine & Platen Dimensions



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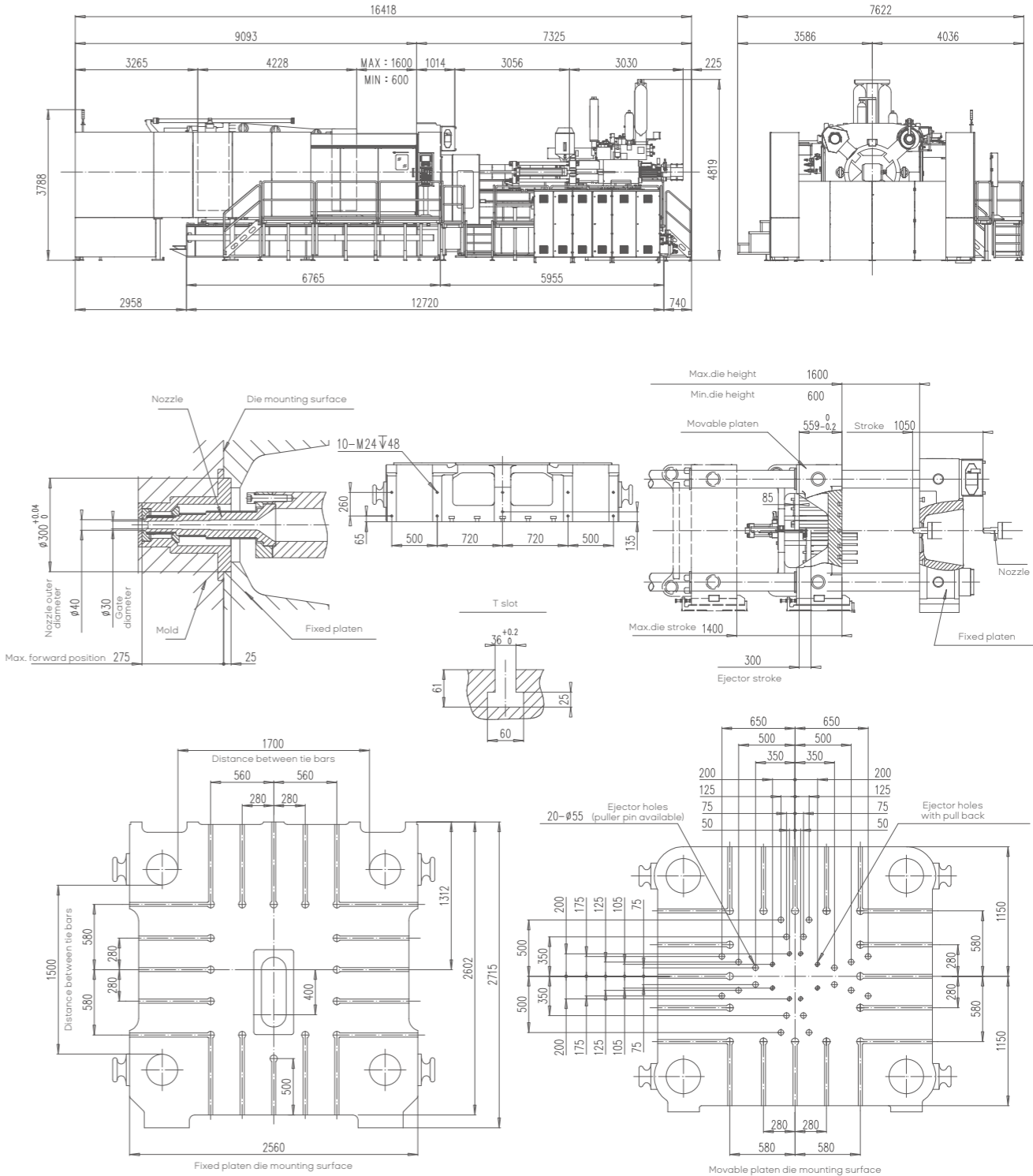
UN2200MGII • Plus-D130

Thixomolding Machine

Specifications

Description	UNIT	UN2200MGII • Plus
Screw diameter	mm	130
Injection pressure	Mpa	100
Theoretical injection volume	cm³	5309
Theoretical max. shot weight	g	9556.7
Available max. shot weight	g	5500
Theoretical max. injection rate	cm³·s ⁻¹	53093(4m/s)
Screw rotation speed	r·min ⁻¹	10-166
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	2540×2340
Locating ring size	mm	Φ300
Mold assembly method		T slot
Ejector force	KN	650
Ejector stroke	mm	300
Pump motor	KW	177.3
Barrel heater	KW	127
Servo motor	KW	42.4
Total power capacity	KW	346.7

Machine & Platen Dimensions



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UN5000MGII • Plus-D200

Thixomolding Machine

Specifications

Description	UNIT	UN5000MGII • Plus
Screw diameter	mm	200
Theoretical injection volume	cm³	15708
Theoretical max. shot weight	g	28274.4
Available max. shot weight	g	18000
Clamping force	KN	50000
Opening stroke	mm	1900
Mold height	mm	1100-2200
Distance between tie bars (H×V)	mm	2200×2000

UN8000MGII • Plus-2×D220

Thixomolding Machine

Specifications

Description	UNIT	UN8000MGII • Plus
Screw diameter	mm	220×2
Theoretical injection volume	cm³	20907×2
Theoretical max. shot weight	g	37633.2×2
Available max. shot weight	g	24000×2
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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UN6600MGII • Plus-2×D200

Thixomolding Machine

Specifications

Description	UNIT	UN6600MGII • Plus
Screw diameter	mm	200×2
Theoretical injection volume	cm³	15708×2
Theoretical max. shot weight	g	28274.4×2
Available max. shot weight	g	18000×2
Clamping force	KN	66000
Opening stroke	mm	2300
Mold height	mm	1200-2400
Distance between tie bars (H×V)	mm	2500×2300

UN10000MGII • Plus-2×D220

Thixomolding Machine

Specifications

Description	UNIT	UN10000MGII • Plus
Screw diameter	mm	220×2
Theoretical injection volume	cm³	20907×2
Theoretical max. shot weight	g	37633.2×2
Available max. shot weight	g	24000×2
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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