

THINK TECH FORWARD

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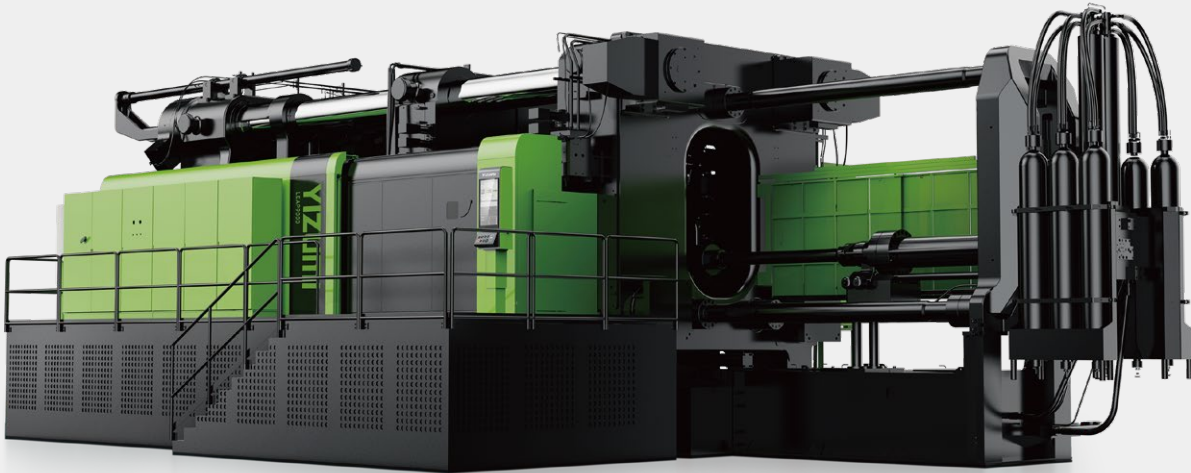
YIZUMI

# LEAP

## 6000T-9000T

LEAP SERIES ULTRA LARGE  
DIE CASTING MACHINE

World class die casting



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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.



# LEAP Series Ultra Large Die Casting Machine

An advanced, high-strength three-platen die casting machine designed by an international engineering team with long-standing die casting machine design experience.

LEAP series die casting machines are successfully utilized in many industries including new energy vehicles, automotive and transportation as well as aerospace, and many other fields. The LEAP technology provides customers with highly cost-effective solutions for ultra-large integrated die castings. In the future, YIZUMI will continue to keep striving for further innovation of our key technologies of ultra-large die casting machines, especially the intelligent integrated control & injection technology, automation and process data management for our die casting solutions, to provide customers with the best return on investment.

## Intelligent Pumping Station and Full Servo Drive

The 210bar system pressure provides strong power for the entire hydraulic system and fully meets the exceedingly high requirements of injection forces required to filling the thin-walled cavities of large integrated structural parts.

Our innovative servo drive with intelligent pump station control is designed to greatly save energy consumption while reducing hydraulic peaks during operation which improves the stability of the entire system.

## Highly Rigid, Efficient, and Stable Clamping System

The general structure of the oversized machine platen was optimized as a whole based on intensive FEA calculations. This significantly improved the distribution of forces on the machine platen. As a result, the work cycles can be accelerated and at the same time the high requirements of a sustainable and stable series production of large structural parts are guaranteed.

## Tool Energy Interfaces

Energy connections for the tools are well arranged, and precise locations may be adjusted to customers' requirements which supports fast tool changes in the casting plant. Besides core pulls and external squeeze pin installations, interfaces include high-vacuum connections as well as jet-cooling, water /oil TCUs. Customer specific energy connections can be considered.

## High-Performance Injection System

A highly integrated modern hydraulic injection unit provides our customers with the highest injection forces and injection velocities up to 12m/s. Customized servo valves controlled by our ORCA control system with the YIZUMI developed genuine Real-Time-Closed-Loop injection ensures top class precision and absolute process reproducibility. The ULM LEAP is the perfect die casting machine to manufacture large sized, thin-walled structural castings for BIW applications.

## MES Solution for Perfect Production Management

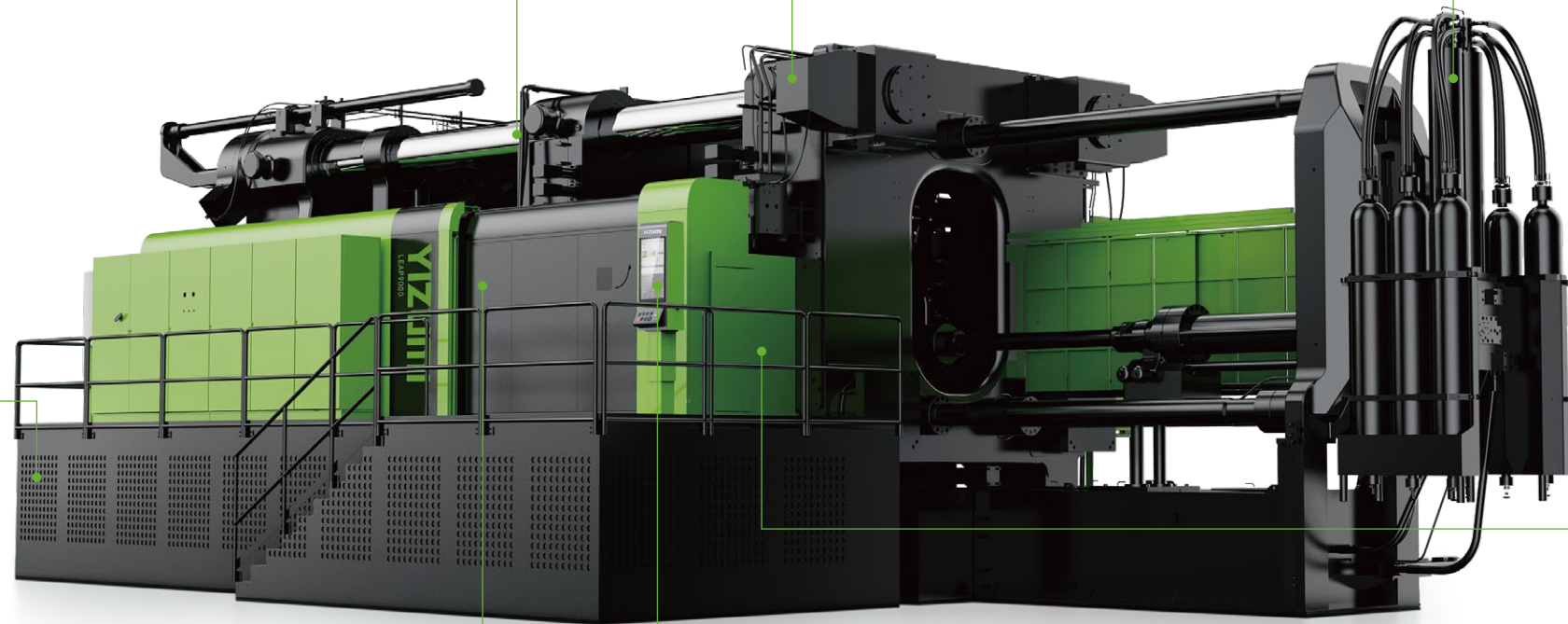
With its in-house solutions Yi-CMS & Yi-MES, YIZUMI offers efficient management of key production & process data and thus enhances productivity of one or multiple casting cells.

## Interfaces for Smart Cell Integration

Standardized signal or bus system interfaces allow flexible and easy cell integration with any peripheral standards used worldwide by customers.

## ORCA-HMI with Full Performance Control

With its well-structured, intuitive graphic supported HMI menu, the YIZUMI ORCA control allows full management of critical production parameters with ease and efficiency. With minimum training needed, this control system reduces complexity for all its users.



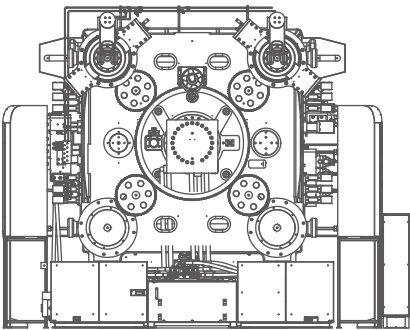
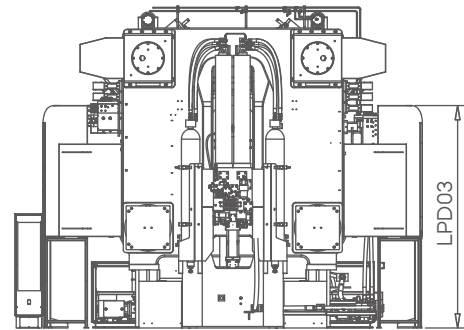
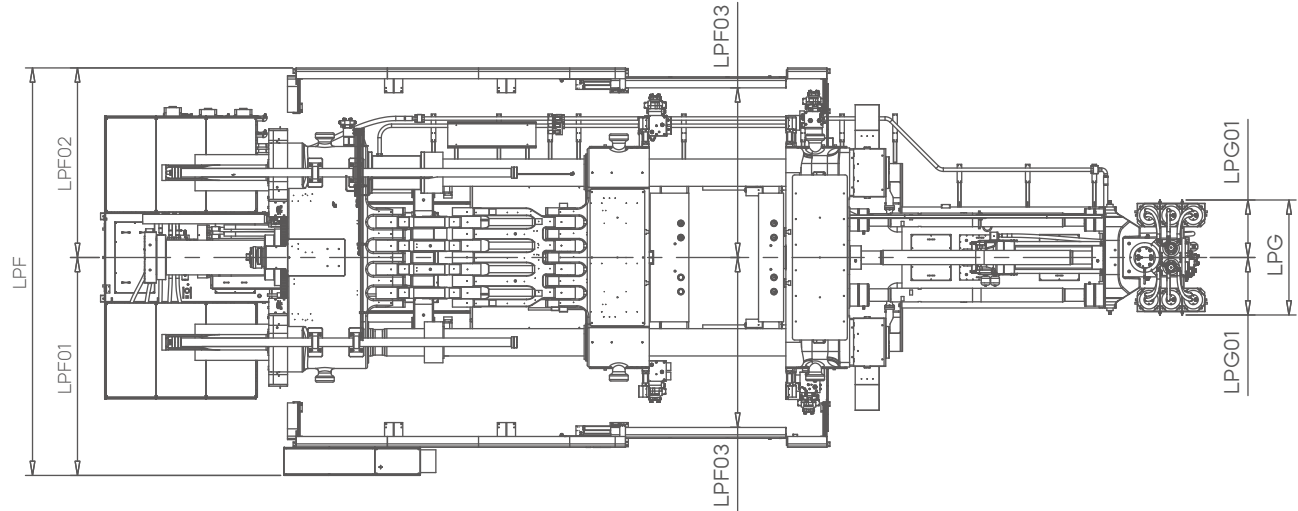
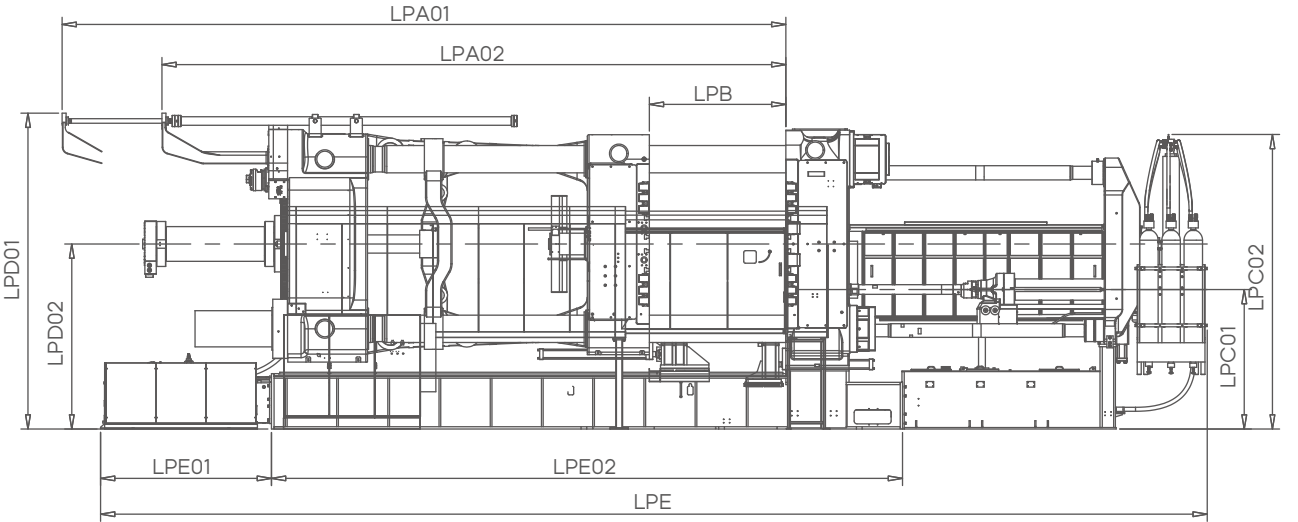
TECHNICAL DATA

| ITEM                               | UNIT | LEAP6000        | LEAP7000        | LEAP8000        | LEAP9000        |
|------------------------------------|------|-----------------|-----------------|-----------------|-----------------|
| CLAMPING UNIT                      |      |                 |                 |                 |                 |
| Die Locking Force                  | kN   | 60000           | 70000           | 80000           | 90000           |
| Die Locking Stroke                 | mm   | 2300            | 2300            | 2600            | 2600            |
| Die Height (Min.-Max.)             | mm   | 1200-2400       | 1200-2400       | 1400-2500       | 1400-2500       |
| Platen Dimensions (H×V)            | mm   | 3600×3600       | 3900×3900       | 4100×4100       | 4100×4100       |
| Tie-Bar Space (H×V)                | mm   | 2300×2300       | 2500×2500       | 2600×2600       | 2600×2600       |
| Ejector Force                      | kN   | 1100            | 1300            | 1300            | 1500            |
| Ejector Stroke                     | mm   | 400             | 400             | 400             | 400             |
| INJECTION UNIT                     |      |                 |                 |                 |                 |
| Shot Force                         | kN   | 4000            | 4000            | 4800            | 4800            |
| Dynamic Shot Force                 | kN   | 1600            | 1600            | 1900            | 2150            |
| Shot Stroke                        | mm   | 1800            | 1800            | 2100            | 2100            |
| Plunger Diameter                   | mm   | 220-260         | 220-260         | 250-300         | 250-300         |
| Injection Weight (Al)              | kg   | 128-180         | 128-180         | 193-278         | 193-278         |
| Casting Pressure (Intensification) | MPa  | 105-75          | 105-75          | 97-67           | 97-67           |
| Casting Area                       | cm²  | 5710-8000       | 6650-9291       | 8180-11780      | 9280-13435      |
| Max. Casting Area (40MPa)          | cm²  | 15000           | 17500           | 20000           | 22500           |
| Shot Position                      | mm   | 0,-700          | 0,-800          | 0,-1000         | 0,-1000         |
| Plunger Following Stroke           | mm   | 900             | 900             | 1000            | 1000            |
| Shot Sleeve Flange Diameter        | mm   | 470             | 470             | 490             | 490             |
| Shot Sleeve Flange Protrusion      | mm   | 40              | 40              | 40              | 40              |
| OTHERS                             |      |                 |                 |                 |                 |
| Working Pressure                   | MPa  | 21              | 21              | 21              | 21              |
| Motor Capacity (SM)                | kW   | 397.8           | 397.8           | 530.4           | 530.4           |
| Hydraulic Oil Tank Capacity        | L    | 7500            | 7500            | 8500            | 8500            |
| Machine Dimensions (L×W×H)         | mm   | 19400×8800×5800 | 19850×8800×5800 | 22200×9200×6100 | 22200×9200×6100 |

\* The data are obtained from YIZUMI's laboratory test, and the final interpretation right belongs to YIZUMI.

DIMENSIONS

| ITEM  | LEAP6000  | LEAP7000  | LEAP8000  | LEAP9000  |
|-------|-----------|-----------|-----------|-----------|
| LPA01 | 16650     | 16800     | 18250     | 18250     |
| LPA02 | 10850     | 11000     | 12150     | 12150     |
| LPB   | 1200-2400 | 1200-2400 | 1400-2500 | 1400-2500 |
| LPC01 | 2550-2950 | 2570-2970 | 2500-3000 | 2500-3000 |
| LPC02 | 5200-5600 | 5150-5550 | 5050-5550 | 5050-5550 |
| LPD01 | 5500      | 5780      | 6025      | 6025      |
| LPD02 | 3250      | 3370      | 3500      | 3500      |
| LPD03 | 3910      | 3910      | 4530      | 4530      |
| LPE   | 19400     | 19850     | 22200     | 22200     |
| LPE01 | 3380      | 3380      | 3620      | 3620      |
| LPE02 | 10080     | 10080     | 11430     | 11430     |
| LPF   | 8800      | 8800      | 9200      | 9200      |
| LPF01 | 4660      | 4660      | 4850      | 4850      |
| LPF02 | 4140      | 4140      | 4350      | 4350      |
| LPF03 | 3050      | 3850      | 4060      | 4060      |
| LPG   | 2000      | 2820      | 2600      | 2600      |
| LPG01 | 1000      | 1410      | 1300      | 1300      |



Remark: Please contact us if you want to know more about other machine models.

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