

THINK TECH FORWARD

Designed by Yizumi, July 2023

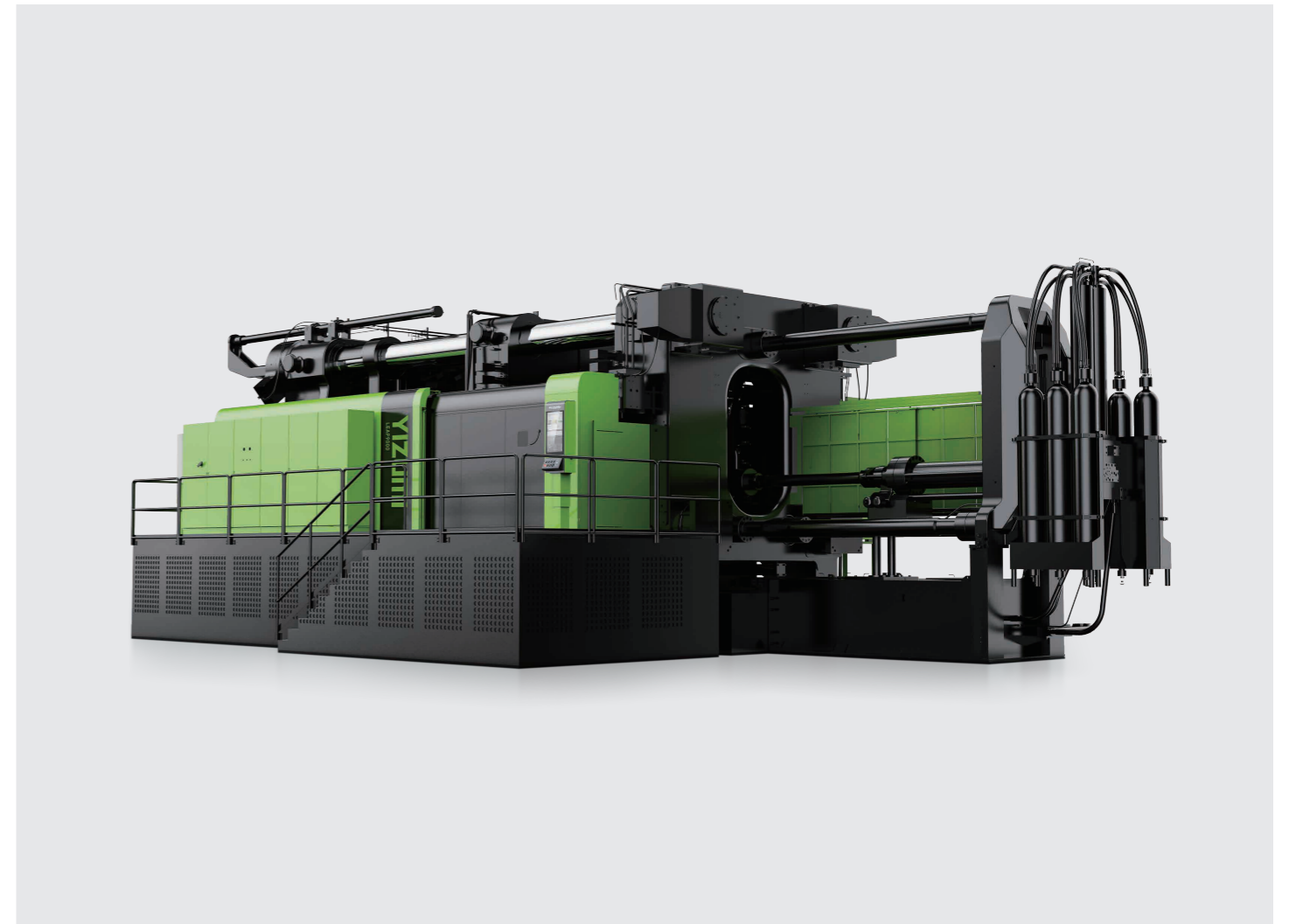
**YIZUMI**

**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 machine can be applied to new energy vehicles, transportation facilities, aerospace, and other fields, providing a more cost-effective ultra-large integrated die casting solution for customers. In the future, Yizumi will continue to keep striving the key technologies of ultra-large die casting machines, especially the intelligent integrated control technology and injection technology of die casting solutions, to provide customers with the best return on investment.

## Highly rigid, efficient, and stable clamping system

The scientific FEA is used to optimize the structure of the super-large platen, and the force of the platen is more uniform and reasonable, to realize shorter working cycle and meet the needs of long-term production of super-large integrated structural parts.

## Modular energy board

Modular vacuum, mold temperature controller, jet cooling, and water-cooled pipeline interfaces are reserved for ultra-large integrated structural parts molds to simplify the complex pipeline connections.

## High-performance injection system

Up to 12 m/s injection speeds ensures high dynamic filling of large, thin-walled parts. The combination of the intelligent ORCA control system and the high response injection control servo valve ensures excellent injection control performance. The injection position meets the requirements of ultra-large molds.

## Intelligent pumping station and full servo drive

The 210bar system pressure provides strong power for the entire hydraulic system, fully meets the cavities filling needs of large integrated structural parts, while the full servo drive and intelligent pump station control can greatly save energy consumption, reduce the hydraulic peak fluctuation during operation, and improve the stability of the entire system.

## Interfaces for Smart Cell Integration

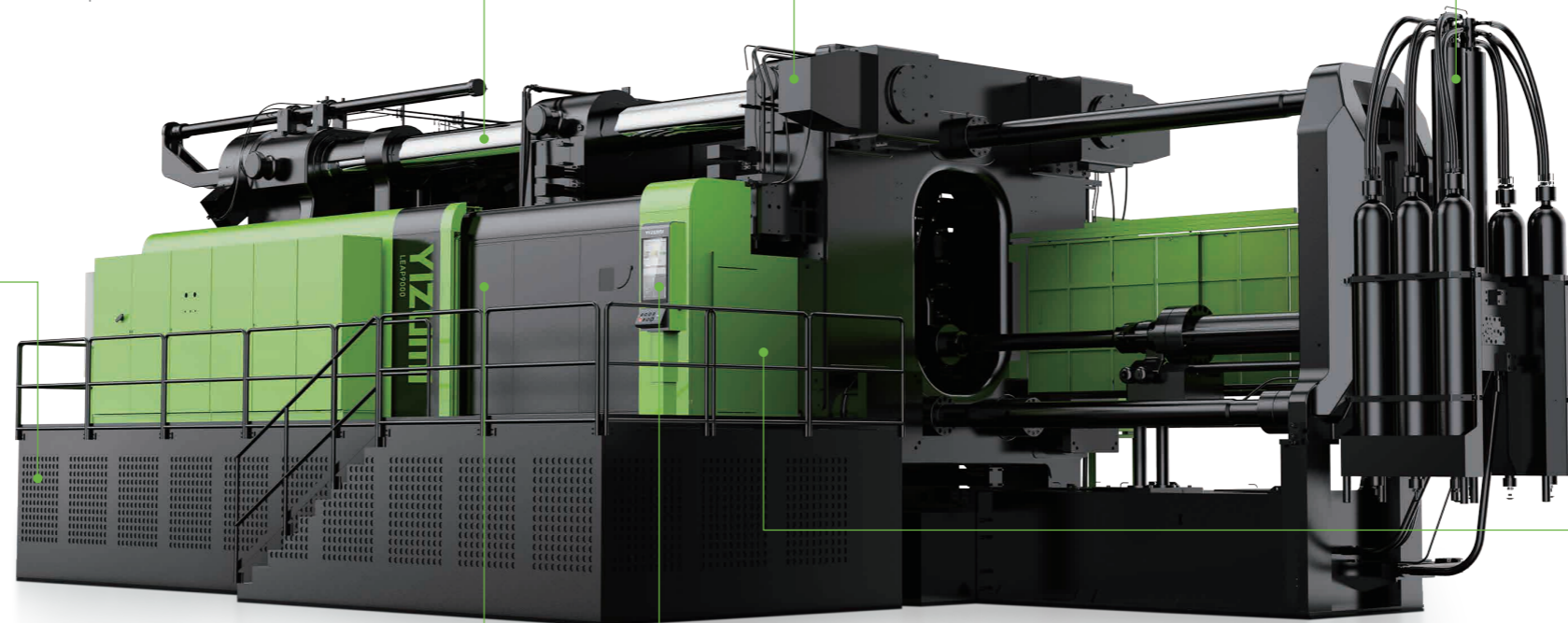
Standardized signal or bus system interfaces allow flexible and easy cell integration with any peripheral standards used worldwide by customers.

## ORCA-HMI with Full Performance Control

With its 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.

## 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.



# LEAP

# TECHNICAL DATA

| ITEM                              | UNIT            | LEAP6000        | LEAP7000        | LEAP8000        | LEAP9000        |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>CLAMPING UNIT</b>              |                 |                 |                 |                 |                 |
| 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 Dimension (HXV)            | mm              | 3600X3600       | 3900X3900       | 4100X4100       | 4100X4100       |
| Tie-Bar Space (HXV)               | mm              | 2300X2300       | 2500X2500       | 2600X2600       | 2600X2600       |
| Ejector force                     | kN              | 1100            | 1100            | 1300            | 1500            |
| Ejector stroke                    | mm              | 400             | 400             | 400             | 400             |
| <b>INJECTION UNIT</b>             |                 |                 |                 |                 |                 |
| Shot Force                        | kN              | 2920            | 4000            | 4800            | 5340            |
| Dynamic Shot Force                | kN              | 1235            | 1600            | 1900            | 2150            |
| Shot Stroke                       | mm              | 1700            | 1800            | 2100            | 2100            |
| Plunger Diameter                  | mm              | 210-250         | 220-260         | 250-300         | 250-300         |
| Injection Weight (Al)             | kg              | 110-156         | 128-180         | 193-278         | 193-278         |
| Casting Pressure(Intensification) | MPa             | 84-59           | 105-75          | 97-67           | 108-75          |
| Casting Area                      | cm <sup>2</sup> | 7115-10085      | 6650-9291       | 8180-11780      | 8270-11900      |
| Casting Area Max.(40MPa)          | cm <sup>2</sup> | 15000           | 17500           | 20000           | 22500           |
| Shot Position                     | mm              | -300, -700      | -400, -800      | -450, -900      | -500, -1000     |
| Plunger Following Stroke          | mm              | 800             | 900             | 1000            | 1000            |
| Shot Sleeve Flange Diameter       | mm              | 470             | 470             | 490             | 490             |
| Shot Sleeve Flange Protrusion     | mm              | 40              | 40              | 40              | 40              |
| <b>OTHERS</b>                     |                 |                 |                 |                 |                 |
| Working Pressure                  | MPa             | 21              | 21              | 21              | 21              |
| Motor Capacity (SM)               | kW              | 396             | 396             | 396             | 396             |
| Hydraulic Oil Tank Capacity       | L               | 7500            | 7500            | 8500            | 8500            |
| Machine Dimension(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.

# DIMENSION

| 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   | 8280      | 8280      | 8700      | 8700      |
| LPG01 | 1000      | 1410      | 1300      | 1300      |

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

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