

# 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	4800
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	97-67
Casting Area	cm <sup>2</sup>	7115-10085	6650-9291	8180-11780	9280-13435
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	397.8	397.8	530.4	530.4
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	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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