

THINK TECH FORWARD

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YIZUMI

LEAP

380T-5000T

LEAP SERIES DIE CASTING MACHINE

World class die casting



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[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.



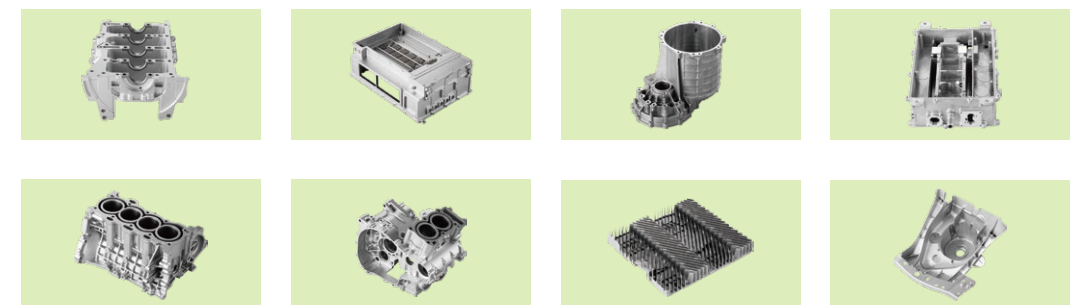
THINK TECH FORWARD

LEAP

PRODUCT DETAILS

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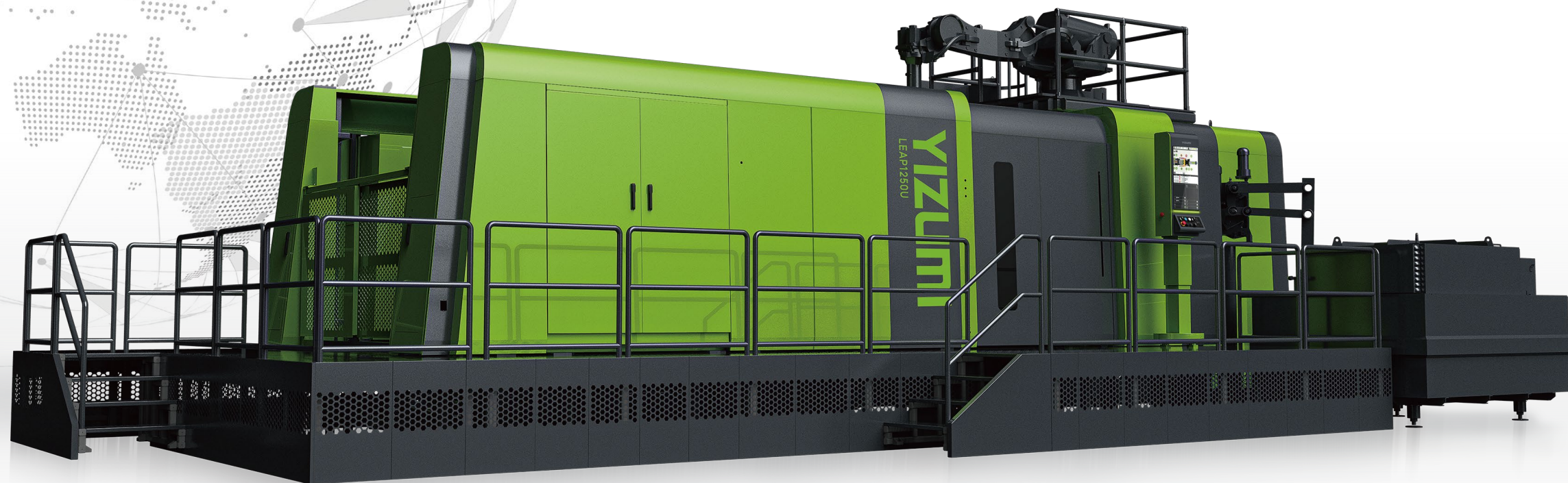
YIZUMI LEAP is the result of connecting advanced international engineering expertise with YIZUMI's experienced R&D team. This state of the art technology provides our customers with highest casting precision and top of the line reproducibility. LEAP Technology, with its innovative hydraulic and high performing control system with intuitive HMI, ensures maximum casting process control to achieve highest production efficiency.





WORLD CLASS DIE CASTING

LEAP SERIES
DIE CASTING MACHINE



User-Friendly

Intuitive ORCA-HMI
by YIZUMI

Highly Efficient

10 % faster &
highly repeatable

Precise & Repeatable

Yi-Cast
Self-learning real-time control

Energy-Saving

Up to 40 %
with innovative hydraulic

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VISION 2025

BEST RETURN ON INVESTMENT
FOR OUR CUSTOMERS

To be the industry's best cost-effective
solution provider with leading technology

Integrated Die Casting Solutions

At YIZUMI we understand the great importance of a fully integrated and efficient die casting cell. Therefore we designed the LEAP die casting machine in a way that our specialists can flexibly integrate a die casting manufacturing cell with customer's preferences in mind and ensure you receive a die casting solution from YIZUMI which provides you with the best OEE in your production.

Competent Support

Our customers can rely on YIZUMI after sales support in every market world wide. We commit ourselves to providing a top class support to our customer in areas of technical support and spare parts availability.

YIZUMI tops it off with quality training on technical equipment and casting process either at its HQ in China or on customer's site.

We also go the extra mile, supporting our customers to optimize their die-casting process onsite at their factories.

State-of-the-Art Die Casting Technology

We are committed to providing leading technology to our customers worldwide. Based on our 12000 die casting machines currently operating in the market, our collaboration with top class engineering experts from Europe has enabled us to create the LEAP die casting system - providing true State of the Art Technology to you.

User-Friendly

Intuitive ORCA-HMI
by YIZUMI

Highly Efficient

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highly repeatable

Energy-Saving

Up to 40 % with
innovative hydraulic

LEAP

Precise & Repeatable

Yi-Cast self-learning
real-time control

THE ROAD TO LEAP

In recent years, in keeping with the general trend of energy conservation and emission reduction, the global demand for new energy vehicles has ushered in rapid growth. The die-casting industry is facing a new round of transformation and upgrading in which new energy vehicles put forward higher requirements for die-casting technology and complex thin-walled die-casting parts.

To address this challenge, from smart cell integration, die design and casting process optimization, we benchmark the key performance of the machine against the international advanced level. Through the improvement of equipment availability, process repeatability, and precision, customers will achieve higher OEE.

To bring competitive value to customers, YIZUMI decided that a holistic approach would be the key to this revolutionary leap.

"An innovation as significant as the LEAP die casting machine can not be done by single individuals. Rather, such innovations are a result of our collaboration with interdisciplinary experts and customers."

— Stefan Fritsche

YIZUMI CSO for Die Casting & Metal Forming

The Power of Connection

"Deep connection" is the driving force behind YIZUMI's technological leadership. To create a new generation of revolutionary products, YIZUMI is committed to connecting advanced European die-casting technology with YIZUMI capabilities. The China-Europe technology-platform we built introduces European die-casting experts to overcome technical challenges together with our experienced R&D team. At the same time, we cultivate the core technical capabilities of our Chinese engineers, from knowledge transfer to active creation.



The YIZUMI-Customer Collaboration

At the beginning of product development, we actively applied our IPD (Integrated Product Development) method, with its market-orientation and focus on customer needs & requirements. We learned to understand the pain-points of customers' employees in their diverse roles in actual production and use of die casting equipment. Through several years of in-depth observation and research, we obtained first-hand feedback, which helped LEAP products to achieve a leap in key performance.

To generate more possibilities for the product, we have also connected European partners with rich industry experience, merging internal and external die-casting expertise to create a technical team with international perspectives for the benefit of our customers.

"This time we established a fantastic product with great energy efficiency and top of the line injection performance and repeatability for the YIZUMI brand. I am really proud of our work and the whole team and of our international collaboration."

— Daniel

Chief expert of injection system In YIZUMI LEAP Project

CONNECTING WITH GLOBAL ADVANCED DIE CASTING TECHNOLOGY

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

LEAP's advanced, real time closed loop injection provides highest international level of casting performance resulting in highest OEE.

The system is complemented by a highly innovative and energy saving hydraulic drive-group as well as a state-of-the-art HMI featuring highly intuitive programming. World Class Technology at fair prices.

Industry 4.0 Ready

Continuous improvement is based on accurate and timely feedback of a large variety of production and casting process data. With the LEAP die casting system, YIZUMI offers its customers an advanced platform able to smartly manage and improve machine utilization and process quality based on data management of all relevant parameters influencing the casting process.

Maintenance friendly – Safety First in Overall Design

Designed with safety in mind, control cabinets and machine enclosures allow best maintenance access for highly efficient operations.

YIZUMI 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.

Energy Saving, Innovative Drive Group

Digital constant pump or high dynamic servo pump, YIZUMI offers energy efficient drive groups offering precise hydraulic movements, high protection of hydraulic components with a long service life and an energy consumption of **up to 40%** below conventional systems.

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.

Rigid and Fast-Moving Clamping System

Re-designed for performance, our toggle system provides fast and accurate die movements. Increased stability of the platen reduces flash build up while maintaining an attractive tie bar spacing.

YIZUMI Flexible Energy Board

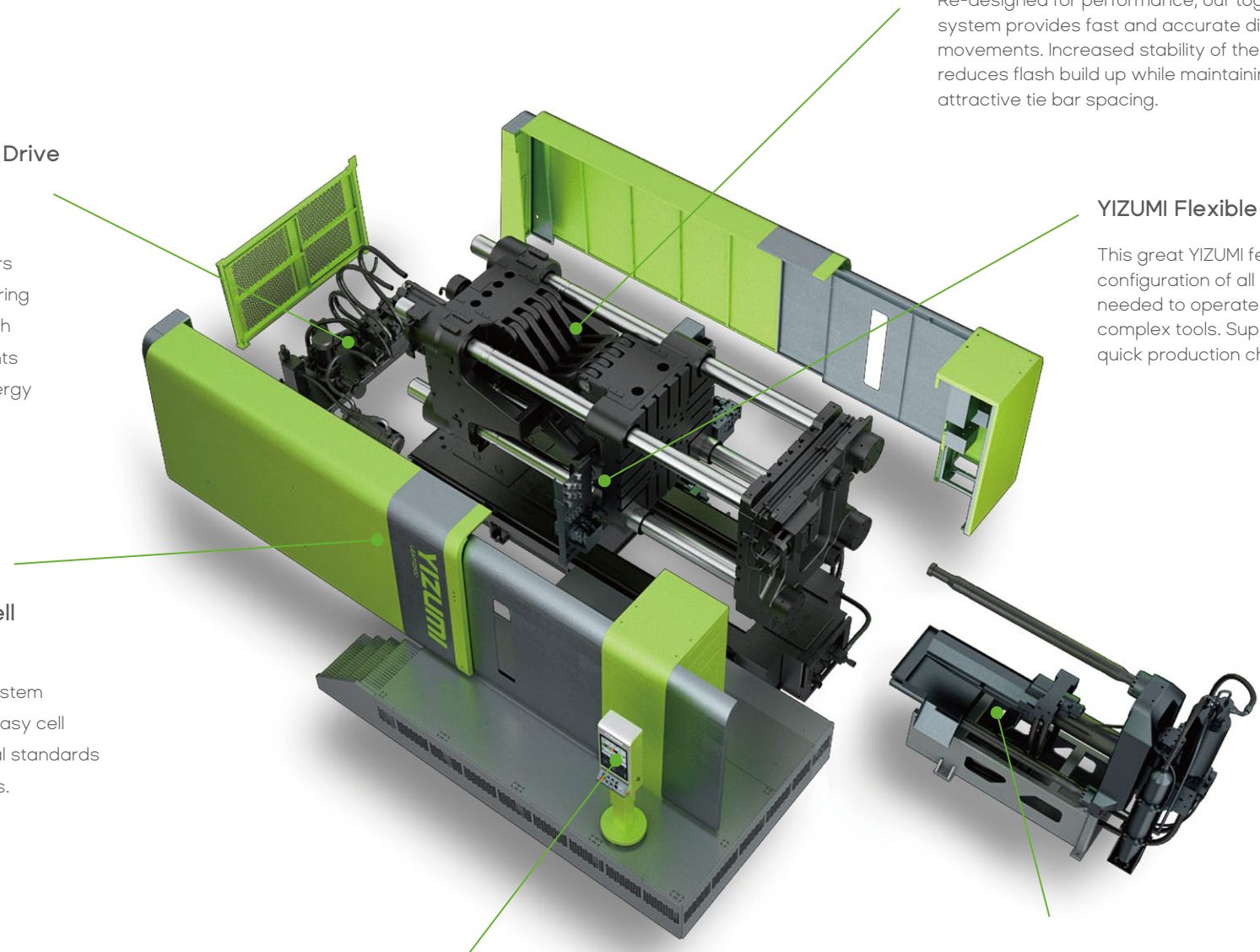
This great YIZUMI feature allows flexible configuration of all energy connections needed to operate even the most complex tools. Supports also safe and quick production changes.

YIZUMI 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.

YIZUMI Yi-Cast Injection Unit – Quality with Every Shot

Making use of the most advanced technology for its real time closed loop shot control, YIZUMI LEAP provides its users with highest precision and repeatability for every shot.



SMART CONTROL SYSTEM

YIZUMI ORCA Control System

YIZUMI Die Casting Machine Smart Control System is the result of close cooperation between YIZUMI and European experts. It provides customers with an advanced digital platform that can be managed based on data of all relevant die casting process parameters to improve efficiency of machine use and process quality.

The ORCA control system features an industrial computer IPC and a large HD multi-touch screen HMI with intuitive interactive graphic program menus. Support and guiding functions such as comprehensive alarm messages, multi-function injection curve display as well as preventive maintenance references and casting technology information ensure highest operational efficiency.

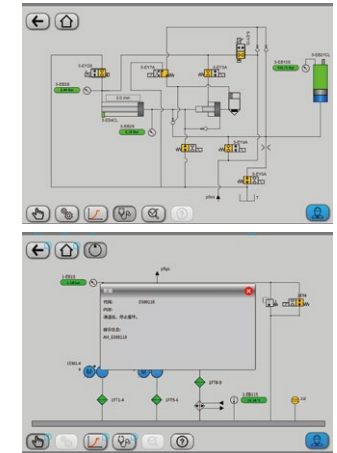
In line with the future development, the intelligent control system comes with AI attributes. Functionality simulating mobile phone operation allows for ease of use to manage process parameters and system programming with highest efficiency and a minimum of training.

Comprehensive Statistical Process Control (SPC) functions ensure transparent quality management of any casting production with a focus to achieve highest Overall Equipment Efficiency (OEE)



Fully Digital Control

With its easy-to-understand and intuitive graphical HMI, the ORCA control system provides maximum flexibility in managing the casting process.



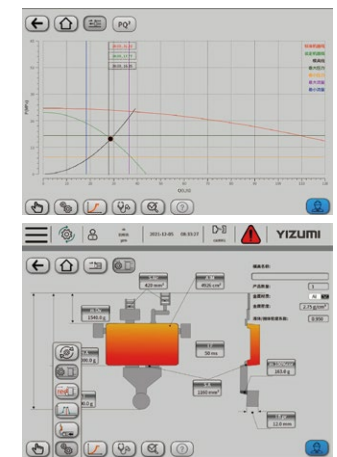
Alarm and Trouble-Shooting System

The ORCA control system has a well-documented alarm system built in to provide operational guidance and rapid troubleshooting to customers.



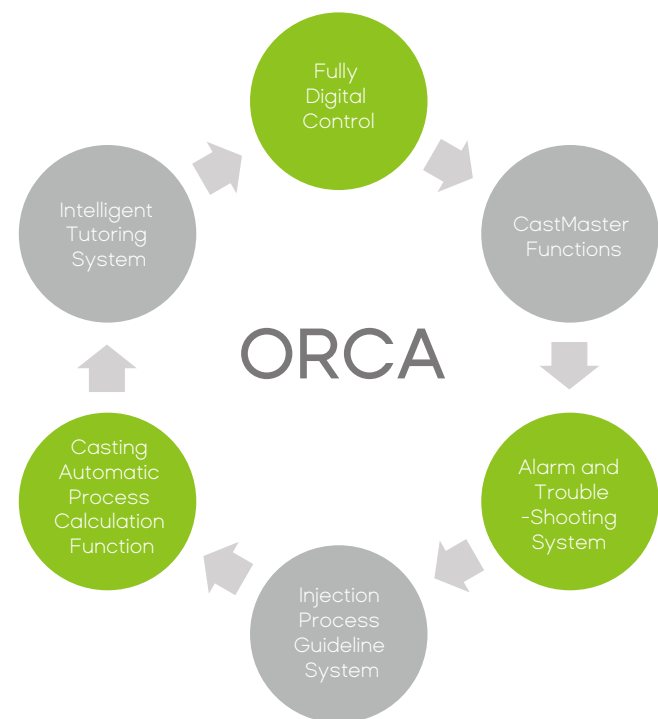
Professional Application Tool

The ORCA control system features various professional and smart application tools allowing users to program and manage the casting process with ease and highest transparency.



CastMaster Functions

The ORCA control system features a "built-in experts' system" which can guide customers with valuable technology information in the die-casting process.



KEY FEATURES



YIZUMI LEAP Injection Unit –Quality with Every Shot

This is innovation by YIZUMI. A powerful combination of state-of-the-art casting injection control performance at fair prices. Developed by YIZUMI with an international team of highly experienced engineers, our LEAP system offers highest casting performance. Finely adjusted algorithms which have been developed in-house combined with a high-performance control system, high speed pilot valves and special purpose servo valves offer you a world class injection performance.

The YIZUMI real time closed loop control system detects any process deviation and immediately adjusts the injection process. **This greatly enhances your process repeatability and your casting quality consistency. Breaking of the injection speed at the end of cavity filling reduces flash and increases productivity and die life.**

YIZUMI ORCA Control System & Performance HMI

A top of the line control system designed by YIZUMI.

The result of a close collaboration between YIZUMI and renowned European specialists, the YIZUMI ORCA enhances casting process management in every aspect. Intuitive and easy to understand graphical screens save programming time and reduce extensive training needs. The HMI menu conveniently offers easy access for operators, process engineers, maintenance teams as well as quality managers alike.

The user interface with its large touch screen provides direct access to programming functions, alarm messages as well as the multifunctional shot curve display.

Tolerance bands set for critical process parameters and SPC data management make quality management easy to ensure highest OEE for you.

Enhanced YIZUMI Locking End

Energy consumption
up to
40%
reduction

10%
faster
closing & opening times

A new fully re-engineered toggle system for extended service life and higher platen rigidity.

10% faster closing and opening times are achieved in combination with the innovative YIZUMI hydraulic drive system. The proven servo motors, a technology which has been in use for years at YIZUMI, reduce up to 40% energy consumption.

Easy programming of speeds, automatic die-height & locking force as well as precise die-position-stops add to the overall efficiency.

Flexible energy boards allow easy adjustments and customization of all energy & functional connections between the DCM and the die casting tool.

Performance Focused Machine Design

The result of a close cooperation between the YIZUMI design team and a professional design outfit provides our customers with a new YIZUMI die casting machine design focused on efficient & safe operation in your die casting plants.

Safety first and foremost. Our new design protects your personnel by keeping energy lines and moving parts away, while allowing open access to your operations and maintenance teams in a perfect balance between safety and efficiency.

PERIPHERAL DEVICES

Die Spraying Solution



Tube Spraying General Spraying Micro Spray

Mold Constant Temp. Solution



Die Temperature
Controller



Jet Cooling

Overflow Removal Solution



Customized
Contour Hammer

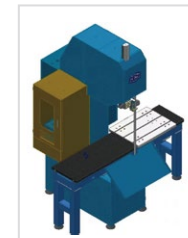


Pneumatic
knockoff hammer

Casting Cooling Solution



De-Gating Solution



Sawing machine



Trimming press



Breaker

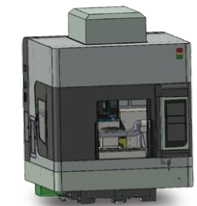
Vacuum System



Exhaust Hood Solution



Product Deburring Solution



Product Traceability Solution Encoder/Code Marking



RESEARCH CENTER FOR DIE CASTING AND METAL MOLDING

YIZUMI Research Center for Die Casting and Metal Molding

YIZUMI has established Research Center for Die Casting and Metal Molding featuring a well equipped with LEAP, NEXT² cold chamber machines, Mg Thixomolding, Al Rheocasting machine cells, covering 840-4400T. The cells are equipped with an aluminum alloy dosing furnace incl. melt treatment with porous plugs, a high vacuum unit, a full set of mold thermoregulator unit (jet cooling, die temperature controller e.g.) and a whole set of robot automation unit. This infrastructure allows YIZUMI Research Center for Die Casting and Metal Molding to meet the production demands of various large castings as well as structural castings.

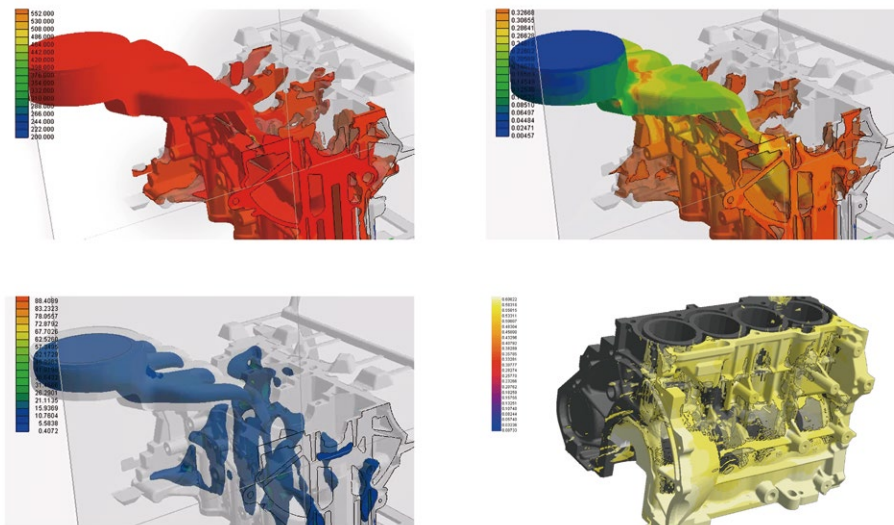
YIZUMI has created a real customer production environment, and can explore together with customers the core requirements of the die-casting process. Our aim is to provide a better and more satisfying equipment experience. YIZUMI is working towards becoming the most cost-effective solution provider in the die-casting field.



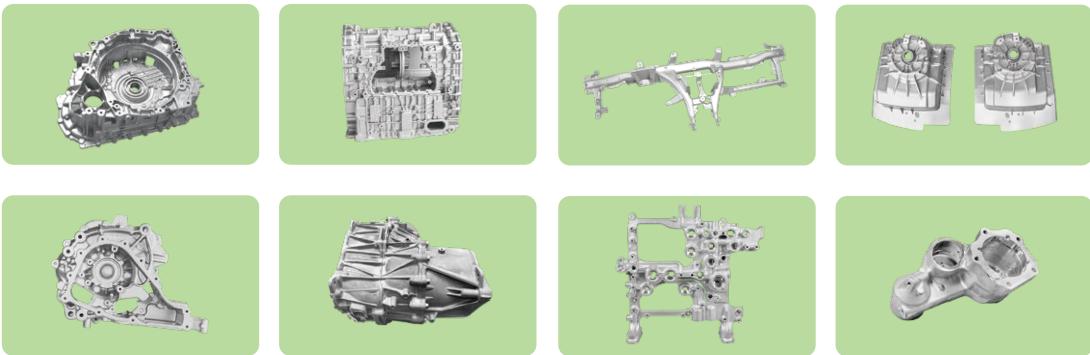
YIZUMI teams are familiar with die casting processes and have built up professional knowledge in structural parts.

Our die-casting solutions provide customers with customized die design support and on-site process optimization. From general castings to thick walled, pressure tight parts, medium wall thickness parts with mechanical stress requirements, and thin wall parts with high surface requirements, etc., we can guarantee stable and consistent quality and realize traceability of the whole production.

Mold Flow and Process Analysis



YIZUMI Production Examples



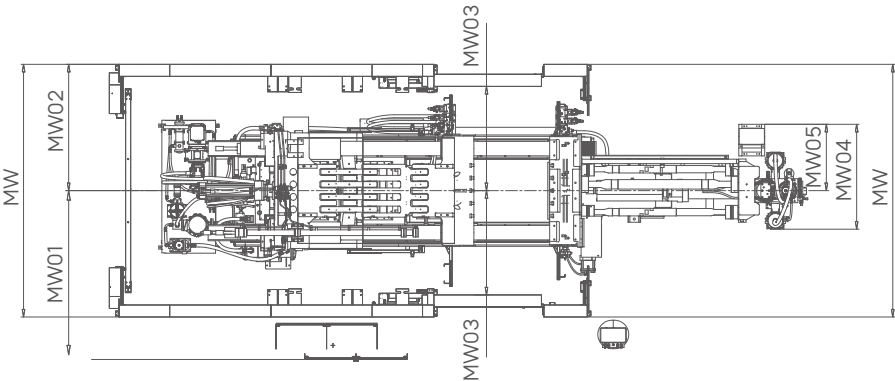
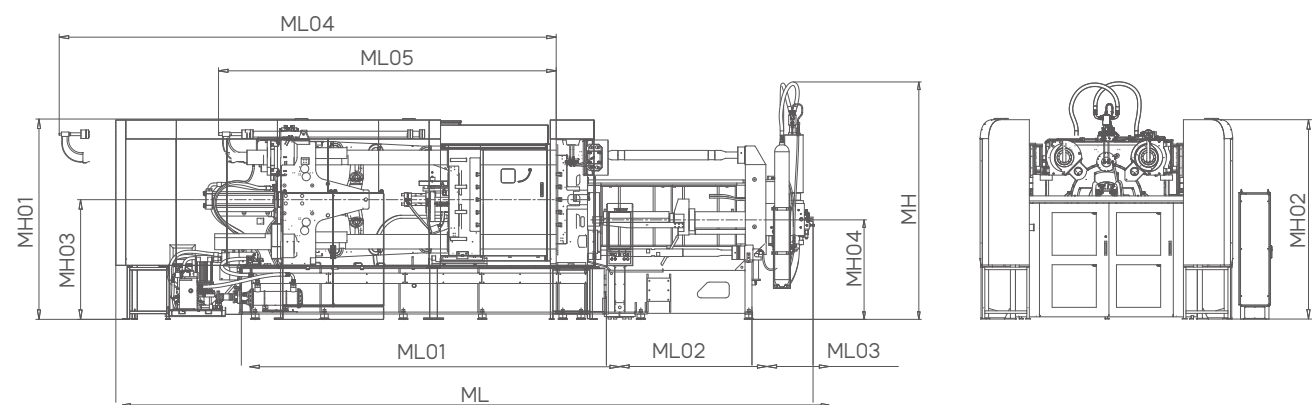
TECHNICAL DATA

ITEM	Die Locking Force	Die Stroke	Die Height (Min.-Max.)	Tie-Bar Space (HXV)	Ejector Force	Ejector Stroke	Injction Force (intens)	Injection Force (dyn)	Shot Stroke	Plunger Diameter	Injection Weight (Al)		Casting Pressure (intens)	Casting Area	Casting Area Max.(40MPa)	Shot Position	Shot Sleeve Flange Diameter	Shot Sleeve Flange Protrusion	Working Pressure	Motor Capacity (SM)	Hydraulic Oil Tank Capacity
	kN	mm	mm	mm	kN	mm	kN	kN	mm	mm	kg		MPa	cm ²	cm ²	mm	mm	mm	MPa	kW	L
LEAP 380U	3800	550	300-750	650×650	180	130	530	190	600	60-80	3.1-5.5		187-105	203-362	950	0/-175	130	15	21	56.1	1000
LEAP 530U	5300	580	350-850	750×750	240	140	530	190	600	70-90	4.2-7.0		137-83	387-638	1325	0/-220	150	15	21	56.1	1000
LEAP 650U	6500	670	350-900	850×850	300	150	770	290	760	70-90	5.4-8.9		200-121	325-537	1625	0/-250	165	15	21	66.3	1200
LEAP 840U	8400	760	400-950	930×930	360	180	770	290	760	80-100	7.1-11.0		153-98	549-857	2100	0/-250	200	20	21	66.3	1200
LEAP 920U	9200	760	400-950	960×960	360	180	770	290	760	80-100	7.1-11.0		153-98	601-939	2300	0/-250	200	20	21	66.3	1200
LEAP 1050U	10500	880	450-1100	1030×1030	500	200	1100	400	850	90-120	10-17.7		172-97	610-1082	2625	0/-300	240	20	21	88.4	2200
LEAP 1250U	12500	1000	450-1200	1100×1100	550	200	1100	410	850	100-140	12.3-24.2		140-71	892-1760	3125	0/-320	240	25	21	88.4	2200
LEAP 1400U	14000	1000	450-1200	1100×1100	550	200	1100	410	850	100-140	12.3-24.2		140-71	1000-1971	3500	0/-320	240	25	21	88.4	2200
LEAP 1650U	16500	1200	500-1400	1250×1250	600	250	1530	580	1050	110-150	18.4-34.3		161-86	1024-1918	4125	0/-400	260	25	21	108.9	2800
LEAP 1850U	18500	1200	500-1400	1250×1250	600	250	1530	580	1050	110-150	18.4-34.3		161-86	1149-2151	4625	0/-400	260	25	21	108.9	2800
LEAP 2000U	20000	1400	600-1600	1350×1350	650	300	1530	580	1050	120-160	22-39		135-76	1481-2631	5000	0/-400	260	30	21	108.9	2800
LEAP 2200U	22000	1400	600-1600	1350×1350	650	300	1530	580	1050	120-160	22-39		135-76	1629-2894	5500	0/-400	260	30	21	108.9	2800
LEAP 2500U	25000	1500	700-1800	1500×1500	750	300	2300	820	1400	140-180	39.8-65.8		149-90	1677-2777	6250	0/-450	280	30	21	176.8	4000
LEAP 2800U	28000	1500	700-1800	1500×1500	750	300	2300	820	1400	140-180	39.8-65.8		149-90	1879-3111	7000	0/-450	280	30	21	176.8	4000
LEAP 3000U	30000	1500	800-2000	1650×1650	900	300	2300	820	1400	140-180	39.8-65.8		149-90	2013-3333	7500	0/-450	280	30	21	176.8	4000
LEAP 3200U	32000	1500	800-2000	1650×1650	900	300	2300	820	1400	140-180	39.8-65.8		149-90	2147-3555	8000	-300/-600	280	30	21	176.8	4000
LEAP 3500U	35000	1600	850-2000	1750×1750	900	300	2300	820	1400	160-200	52-81.2		114-73	3070-4794	8750	-300/-600	320	35	21	176.8	4000
LEAP 4000U	40000	1800	900-2100	1850×1850	1100	400	2800	1165	1600	160-200	59.4-92.8		139-89	2877-4494	10000	-300/-600	320	35	21	217.8	4800
LEAP 4500U	45000	1900	1100-2200	1950×1950	1100	400	2800	1165	1600	160-220	59.4-112.3		139-73	3237-6164	11250	-300/-600	340	35	21	217.8	4800
LEAP 5000U	50000	1900	1100-2200	1950×1950	1100	400	2800	1165	1600	160-220	59.4-112.3		139-73	3597-6849	12500	-300/-600	340	35	21	217.8	4800

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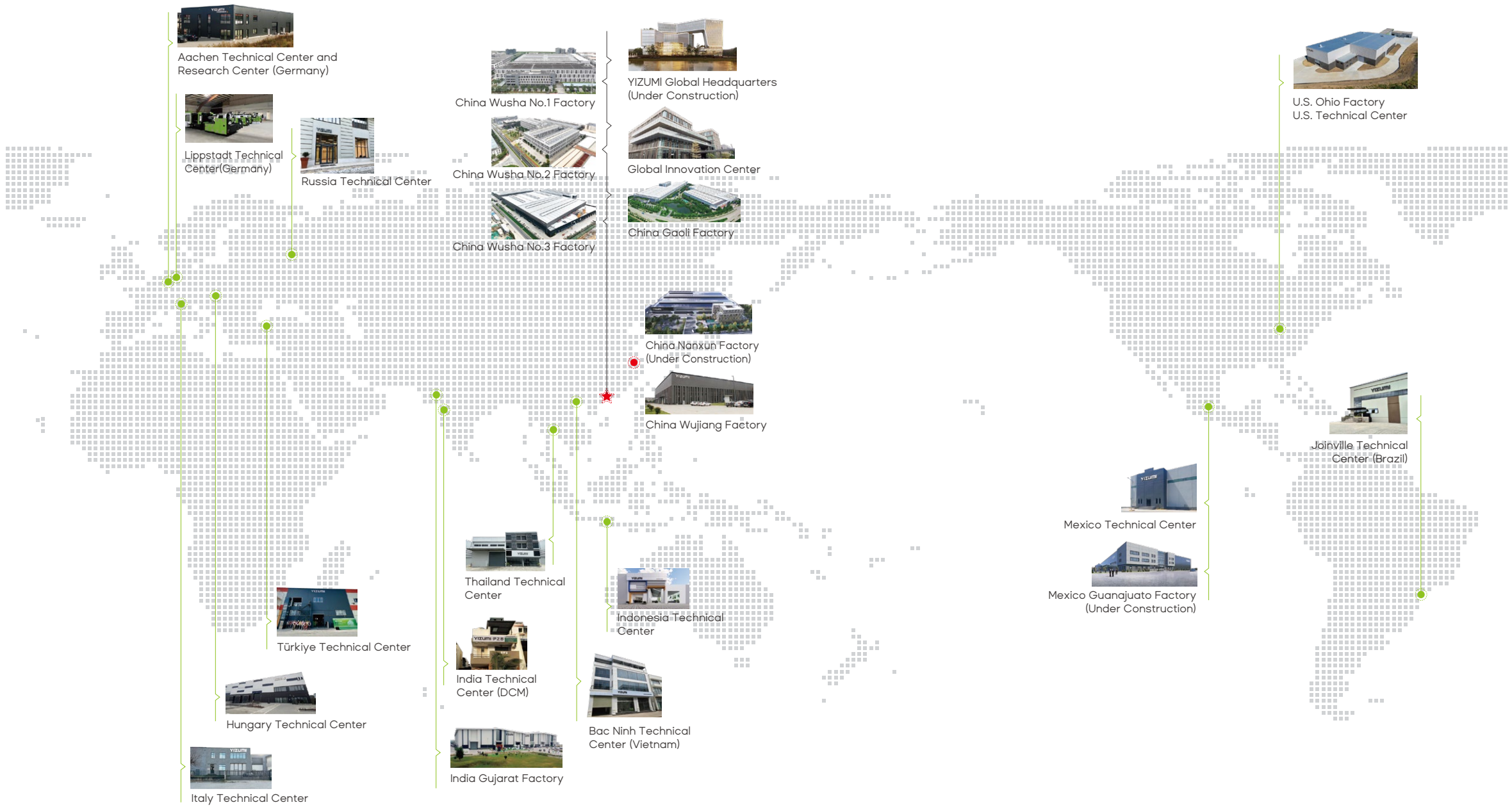
DIMENSION PARAMETER

ITEM	ML	ML01	ML02	ML03	ML04	ML05	MH	MH01	MH02	MH03	MH04	MW	MW01	MW02	MW03	MW04	MW05
LEAP380U	7600	3600	1875	795	4400	3050	2050-2980	2230	2100	1400	1180-1450	2555	1310	1245	1010	1115	520
LEAP530U	8000	3790	1875	795	5215	3570	3145-3365	2335	2100	1490	1270-1490	2670	1335	1335	1030	1115	520
LEAP650U	8500	4180	2285	850	5960	4030	3365-3615	2440	2180	1500	1250-1500	2710	1355	1355	1050	1200	600
LEAP840U	8800	4440	2275	850	6130	4230	3510-3760	2590	2205	1610	1355-1605	2840	1420	1420	1120	1200	600
LEAP920U	8800	4540	2275	850	6380	4310	3525-3775	2680	2205	1660	1410-1660	2920	1460	1460	1155	1200	600
LEAP1050U	10665	5450	2295	970	7290	4970	2970-3270	3080	3080	1725	1425-1725	4000	2600	2000	1655	1660	1050
LEAP1250U	11050	5785	2305	970	7870	5350	3750-4080	3180	3160	1895	1575-1895	4000	2600	2000	1655	1660	1050
LEAP1400U	11050	5785	2305	970	7870	5350	3750-4080	3180	3160	1895	1575-1895	4000	2600	2000	1655	1660	1050
LEAP1650U	12550	6370	3050	1160	9095	6080	3730-4130	3385	3160	1955	1555-1955	4460	2950	2230	1890	1860	1080
LEAP1850U	12550	6370	3050	1160	9095	6080	3730-4130	3385	3160	1955	1555-1955	4460	2950	2230	1890	1860	1080
LEAP2000U	13155	6935	3055	1160	10250	6720	3825-4625	3600	3160	2035	1635-2035	4960	3150	2480	2140	1860	1080
LEAP2200U	13155	6935	3055	1160	10250	6720	3825-4625	3600	3160	2035	1635-2035	4960	3150	2480	2140	1860	1080
LEAP2500U	15180	7570	3795	1398	12100	8250	4030-4480	4070	3400	2330	1880-2330	5460	3400	2730	2390	2075	1200
LEAP2800U	15180	7570	3795	1398	12100	8250	4030-4480	4070	3400	2330	1880-2330	5460	3400	2730	2390	2075	1200
LEAP3000U	15480	8015	3620	1380	12500	8450	4195-4645	4350	3400	2495	2045-2495	5460	3450	2730	2390	2075	1200
LEAP3200U	15480	8015	3620	1380	12500	8450	4195-4645	4350	3400	2495	2045-2495	5460	3450	2730	2390	2075	1200
LEAP3500U	15760	8020	3840	1380	12500	8450	4310-4610	4650	3910	2755	2155-2455	5460	3450	2730	2390	2075	1200
LEAP4000U	17100	8710	4440	1655	13700	9250	5130-5430	4900	3910	2830	2230-2530	5980	3665	2990	2650	2340	1320
LEAP4500U	17610	9165	4510	1655	14210	9620	5195-5495	5000	3910	2890	2290-2590	5980	3665	2990	2650	2340	1320
LEAP5000U	17610	9165	4510	1655	14210	9620	5195-5495	5000	3910	2890	2290-2590	5980	3665	2990	2650	2340	1320



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YIZUMI CUSTOMER SERVICE



Professional & Fast

The YIZUMI YFO Customer Service in China ensures high-quality customer service 24/7. In 39 international markets, YIZUMI provides fast and competent customer services by means of trusted and trained agencies and representatives. In Germany, the USA and India YIZUMI Die Casting operates wholly owned subsidiaries providing high level technical as well as pre- and post-sales services.

YIZUMI at Your Service

Worldwide, YIZUMI has successfully implemented > 8000 Die Casting Solutions. And the number keeps growing - we add up to 100 new die casting machines every single month, to this already impressive number. This is based on a modular machine design, an efficient best-cost supply chain, and a production environment 100% focused on quality and continuous improvement. Our large machine base provides us with ample experience to fully understand our customers' needs regarding customer service support, thus ensuring a competitive lifetime-cost of our products.

GLOBAL SERVICE
NETWORK

180⁺
Service Offices

90⁺
Business covers countries
and regions


Overseas technology
& service centers