

THINK TECH FORWARD

Stock code: 300415

Designed by YIZUMI, June 2026

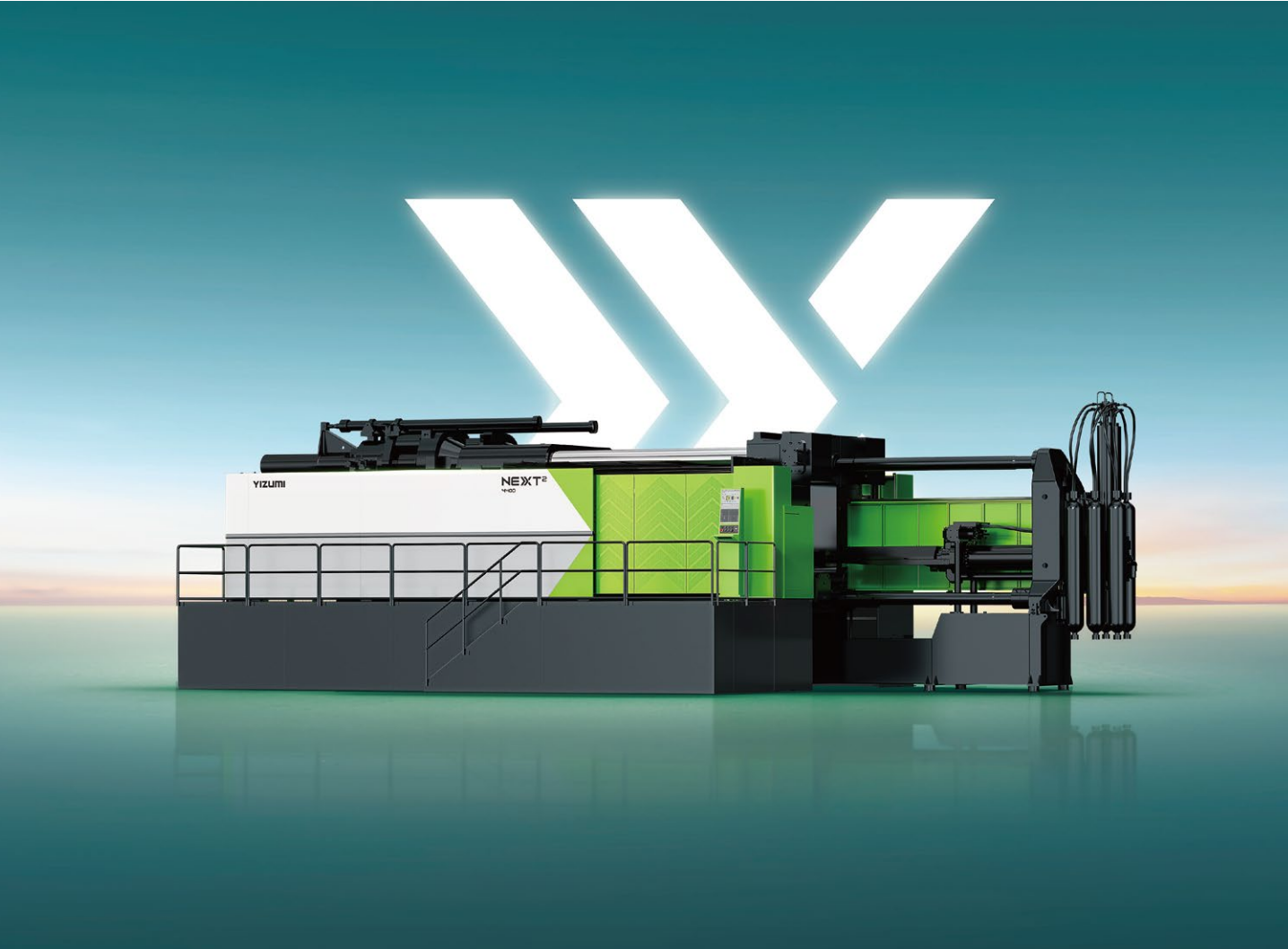
YIZUMI

NE»XT²

18,000–56,000kN

NEXT² SERIES 2-PLATEN
DIE CASTING MACHINE

Simplicity meets Excellence



Yizumi International Business Co., Ltd.
Address: No.22-2 Ke Yuan 3rd Road, Shunde, Foshan, Guangdong 528300, China
TEL: 400-802-6888(China) 86-757-2921 9001(Overseas)
Email: dcsolutions@yizumi.com www.yizumi.com

【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.



For large, thin-walled structural parts

The rapid expansion of the new energy vehicle sector, particularly the increased need for lightweight and high-strength materials in electric vehicles, has created significant opportunities for the die casting industry. Yizumi is committed to meeting evolving market demands by introducing advanced two-platen die casting machines, delivering superior service and comprehensive metal forming solutions to our customers worldwide.



■ Cast rear under body



NEXT²

Advanced two-platen die casting machines on a global scale

» Yizumi's NEXT2 is a world-class two-platen die casting machine that integrates advanced European technology with China's robust cost-effective supply chain, offering a highly innovative, high-performing die casting machine solution to the international market.

A two-platen die casting machine designed for **production reliability** and **extended service life**.

NEXT²

Simplicity meets Excellence

Clamping Forces:

18,000–56,000kN



NEXT² Series Two-platen Die Casting Machine

Key Customer Benefits:

Footprint
reduced

10%

Less overall
energy
consumption

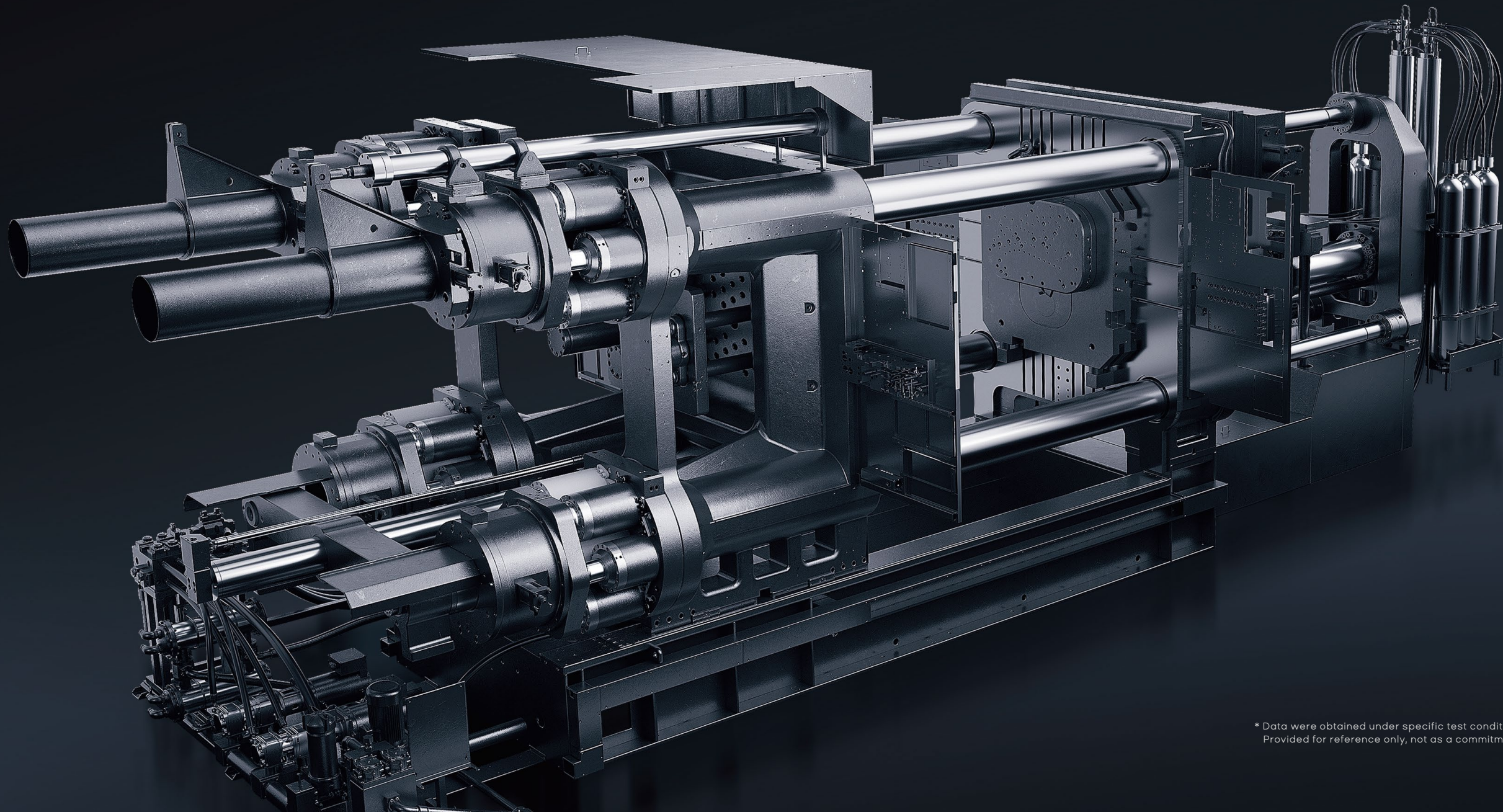
50%

Minimal clamping
force deviation

≤1%

Casting
performance

49%



* Data were obtained under specific test conditions; actual performance may vary.
Provided for reference only, not as a commitment.

Redefining

Two-platen die casting machine design

The NEXT² two-platen die casting machine series has been developed by Yizumi to meet the growing global demand for more precise, energy-efficient high performance die casting.

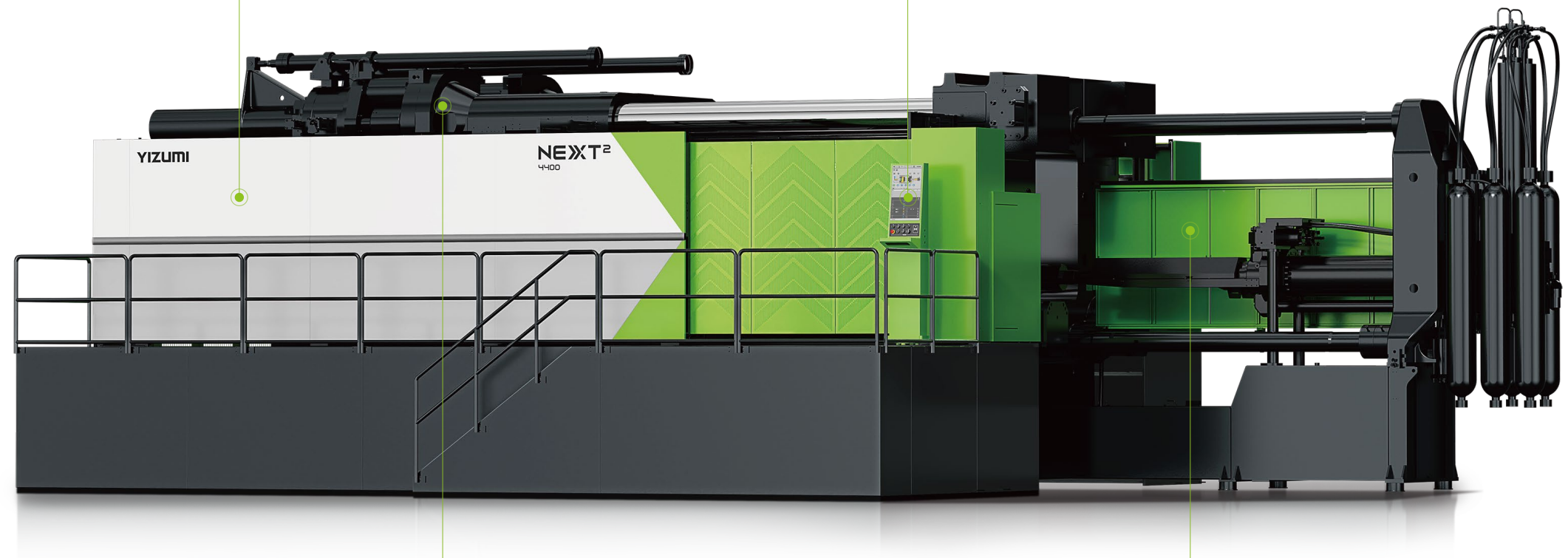
NEXT² series range covers the locking force range of 18,000-56,000 kN, meeting the diverse needs of customers worldwide.

Agile

Modular design allowing customized cell solutions.

Smart

Equipped with the proven Yizumi ORCA intelligent control system, and thus perfectly combining ease of use with precise casting process programming and control of peripheral equipment to ensure operation of highly efficient automatic cell solutions.



Precise

Patented RAPTOR multi-cylinder clamping system, ensuring more uniform clamping force and deviation of <1%;

YIZUMI Yi-Cast high-speed injection technology, with casting performance improved by up to 49%;

Efficient

Two-platen structure design reduces machine footprint by 10% and lowers overall energy consumption by up to 50%.

»
NEXT²

* Data were obtained under specific test conditions; actual performance may vary.
Provided for reference only, not as a commitment.

Multiple technological innovations

Tech Forward - Based on YIZUMI's LEAP technology platform

“

NEXT² is a “next-generation” machine that integrates several advanced die-casting technologies, developed by a skilled team from China and Europe. It builds upon the LEAP series' Yi-Cast injection system and incorporates both the sophisticated ORCA intelligent control system and the patented RAPTOR multi-cylinder clamping system. These features enable intelligent operation and high-efficiency production while significantly improving die-casting precision and flexibility.

”

NEXT² Series Two-platen Die Casting Machine featuring three Core Technologies



1. RAPTOR Multi-Cylinder Clamping System

Multiple cylinders are applied to provide more uniform clamping force. A high-rigidity structure of the moving platen enhances the quality of tool interlocking and thus adds to stability in the casting operation, minimizing flash & deformation, which are critical to achieve precision and quality of your components.

2. ORCA Intelligent Control System

The proven and enhanced ORCA Intelligent Control System ensures casting efficiency and process repeatability through real-time-closed-loop injection control combined with “self-learning” features.

It supports multiple communication protocols to enable equipment collaboration, while optimizing energy usage to promote cost savings and sustainable development.



3. Yi-Cast High-Speed Injection System

With YIZUMI's proprietary injection technology, dry shot speeds of up to 11 m/s are achieved, with injection performance improvements of up to 49%, making it an optimal solution for producing thin-walled structural components.

* Data were obtained under specific test conditions; actual performance may vary. Provided for reference only, not as a commitment.

RAPTOR

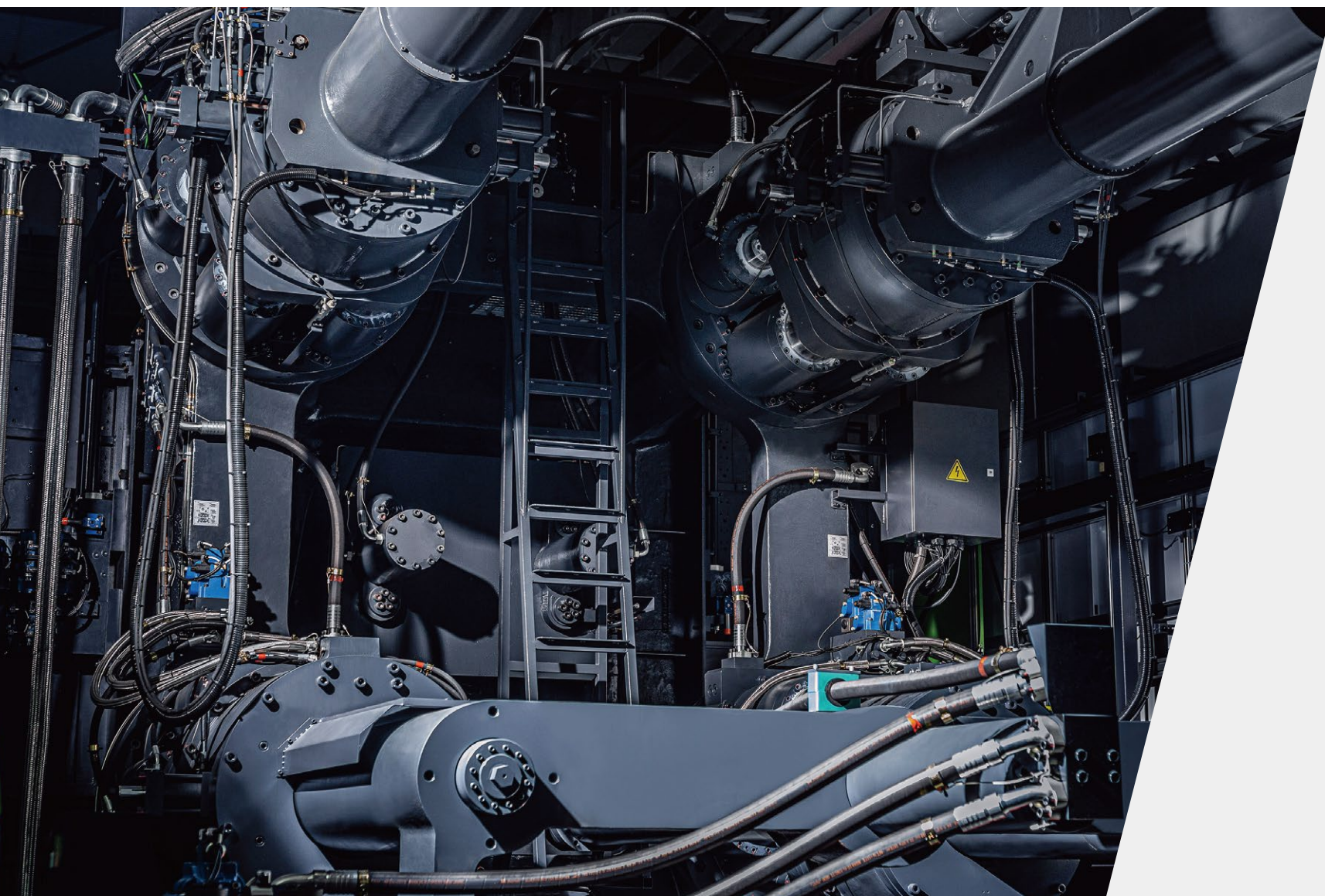
Multi-cylinder die clamping system



The use of multiple cylinders delivers a consistent die clamping force. The high-rigidity moving platen structure guarantees operational stability and minimises flash & deformation, which is essential for maintaining the precision and quality of advanced die-cast components.

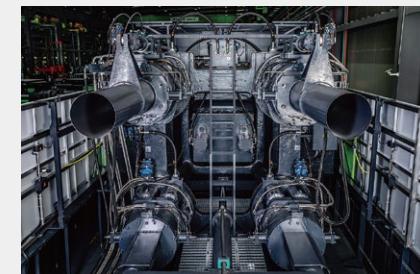
Clamping force
deviation

≤1%



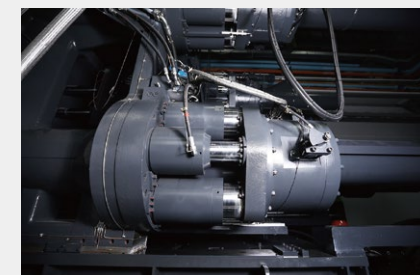
Stable clamping force

Uniform force distribution provides a stable die clamping force, enhancing your components precision and quality.



Flexible connections

Reduced impact and vibration, extending machine service life.



Standard sealings

Simplified maintenance processes and reduces maintenance costs.



ORCA

Intelligent Control System



The ORCA Intelligent Control System features a structured, intuitive graphic-supported HMI menu that facilitates efficient management of essential production parameters. Its real-time closed-loop injection control enhances casting productivity. Additionally, the system supports multiple communication protocols for effective peripheral equipment coordination and optimises energy consumption to support cost efficiency and sustainable development.



High-efficiency production optimization

Ensures highest production efficiency and product quality with genuine real-time control and self-learning technology.



Comprehensive Communication Compatibility

Supports a wide range of communication protocols to interconnect peripheral devices into an efficient cell.



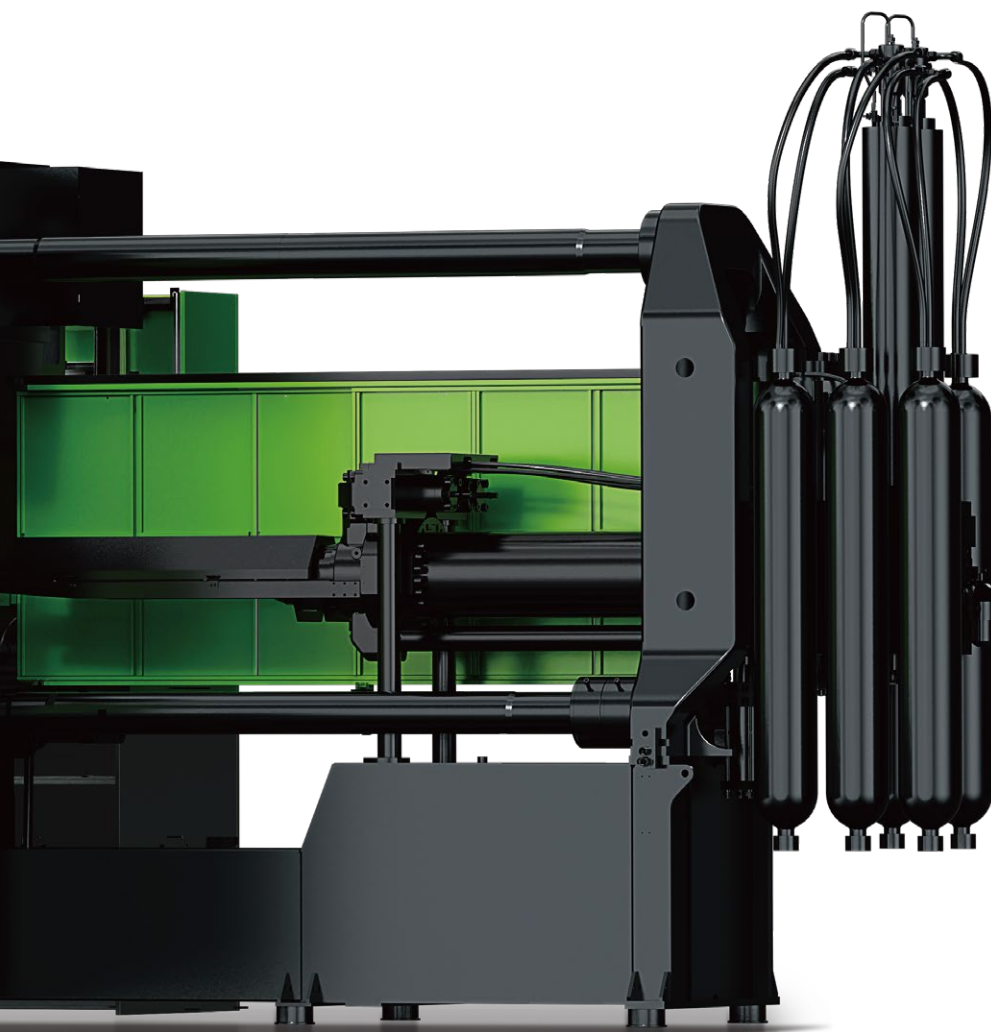
Energy Saving and Environmental Sustainability

Optimizes the die casting process to reduce energy consumption and ensure sustainable operation.

Yi-Cast

High-performance injection system

YIZUMI's unique injection technology, with a maximum dry shot speed of 11 m/s, improves injection performance by up to 49%, making it the ideal solution for producing thin-walled structural parts.



Maximum dry
shot speed of
11m/s

Dynamic injection
performance up to
+49%

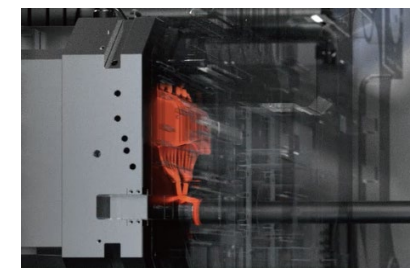
Precise & highly repeatable Injection

Innovative technology enables highly precise cavity filling with unmatched repeatability ensuring reliable high-quality casting production.



Significant injection performance improvement

Up to +49% injection capacity performance compared with benchmark enables larger process windows and quick cavity filling times for large, thin-walled castings.



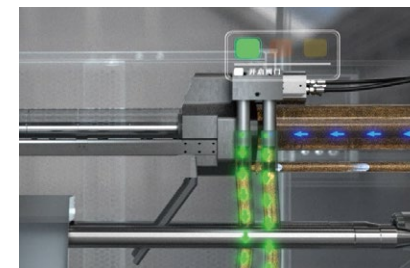
Designed for low TCO

Top injection technology reduces reject rates and smart machine design allows for easy and effective preventive maintenance.



Optimized die filling process

Precise breaking of injection velocity at the end of cavity filling effectively reduces flash and extends tool life.



* Data were obtained under specific test conditions; actual performance may vary.
Provided for reference only, not as a commitment.

Intelligence

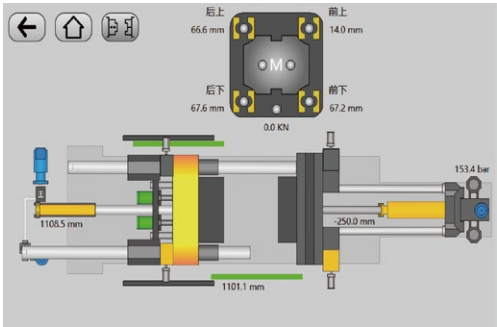
Intelligent Injection Control Technology

High-precision servo valve control injection system featuring self-developed algorithms to effectively control process parameters for precise and stable operation. YIZUMI's real-time-closed-loop injection system enables maximum process control.



Intelligent Die Height Adjustment Function

One-button activates the intelligent die height adjustment function, adjusting the clamping force to the set value automatically. This significantly reduces adjustment time and die changes. Clamping force monitoring feature ensures precise tool interlocking for according to setting.



Intelligent Casting Quality Control Technology

Enables online monitoring and recording of > 100 critical injection parameters influencing product quality. Process monitoring data may be effectively used in product quality management.

2024-09-18 00:00:00		2024-09-18 23:59:59		Number	Recipe										
Time	Number	Recipe	Quality	12	11	10	9	8	7	6	5	4	3	2	1
2024-01-30 09:18:35	91834	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:18:59	91833	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:19:12	91832	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:17:32	91831	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:16:53	91830	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:16:14	91799	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:15:35	91798	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:14:56	91797	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:14:17	91796	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:13:38	91795	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:12:59	91794	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:12:20	91793	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:11:41	91792	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:11:02	91791	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2024-01-30 09:10:23	91790	1	OK	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0

Modularization

- » Modular design of die energy interface;
- » Core pulling, die temperature control, vacuum extraction, etc.;
- » Standardized layout, orderly connections, saving the downtime.



Up to
20%
faster in die change

Supporting fast production change

- Auto adjustment to reach correct die height position.
- Fully integrated quick-die-clamping installation for safe and fast die installation.
- Quick coupling systems available to ensure easy and correct tool energy connections such as TCUs, vacuum, core pulls etc.



* Data were obtained under specific test conditions; actual performance may vary. Provided for reference only, not as a commitment.

Highly efficient, output-focused automated cell solutions.

YIZUMI is committed to providing its customers with world-class technical solutions to ensure highest casting process stability.

Best cost-effective solutions with leading technology for the benefit of our customers.



Supporting customers competitiveness

by delivering advanced

integrated die casting solutions.

Reduced
footprint by
10%

As an integrated solutions provider, we offer customized die-casting machines, die-casting cells, and solutions specifically designed to address our customers' production requirements, processes, and factory environments. Our approach ensures high efficiency, superior quality, user-friendly operation, and automation capabilities, enabling customers to improve overall equipment effectiveness with YIZUMI products and enhance their market competitiveness.

NEXT²

* Data were obtained under specific test conditions; actual performance may vary.
Provided for reference only, not as a commitment.

Service Support

Throughout the service life of your machine, we offer comprehensive, customer-focused support. Our service technicians are available worldwide to assist with installation, process optimisation, maintenance, and repairs on site.



Technical Centers world-wide

After sales support, process training

to ensure operational efficiency
of YIZUMI solutions



» Efficient Service

In order to maximise production efficiency for our customers, we have strategically established service centres in major regions worldwide, offering exceptional support in die casting technologies and ensuring reliable access to spare parts. Additionally, we provide robust solutions for die-casting machine selection, alongside expert guidance on configuring and optimising production processes.

» Remote Maintenance

Besides competent on-site commissioning, after sales services and training, our team offers remote program support worldwide, ensuring prompt responses to our customer's every needs. From initial planning and consulting to training and ongoing maintenance, our experienced service professionals are committed to helping you optimize every aspect of your YIZUMI die casting solution.

» Application Process Support

Yizumi has established a Product & Process Application Centre (PPAC), featuring integrated die casting cells. The centre provides our customers with a wide range of services, including technical support for equipment, process training, and product development testing.

Technical Data

Machine type	Injection force, dynamic (90% injection stroke)	Injection force (intens.)	Plunger diameter (min. / max.)	Shot position	Plunger stroke	Shot weight (Al) (min. / max.) filling rate 60%	Max.projected area at 400 bar	Maximum locking force	Distance between tie bars	Die height (min./max.)	Die opening stroke	Ejector force	Ejector stroke
	kN	kN	mm	mm	mm	kg	cm²	kN	mm	mm	mm	kN	mm
1,800	580	1,530	120/160	0 / -400	1,050	18.4 / 34.3	4,500	18,000	1,300 x 1,300	700/1,450	1,250	700	250
2,200	580	1,530	120/160	0 / -400	1,050	18.4 / 34.3	5,500	22,000	1,450 x1,450	770/1,600	1,400	700	250
2,800	820	2,300	140 / 180	0 / -560	1,400	39.8 / 65.8	7,000	28,000	1,600 x1,600	870/1,800	1,550	900	300
3,500	820	2,300	140 / 180	0 / -600	1,400	39.8 / 65.8	8,750	35,000	1,750 x1,750	940 / 1,900	1,700	900	300
4,400	1,165	2,800	160 / 220	0 / -600	1,600	59.4 / 112.3	11,000	44,000	1,950 x1,950	1,030 /2,100	1,900	1,200	350
5,600	1,165	2,800	160 / 220	0 / -600	1,600	59.4 / 112.3	14,000	56,000	2,200 x 2,200	1,300 /2,400	2,200	1,500	400

* Data were obtained under specific test conditions; actual performance may vary.
Provided for reference only, not as a commitment.