

Injection Moulding Machines 30 - 4000 tons

R A N G E O V E R V I E W



MACHINES



Yizumi Injection Moulding Machines

Welcome to a world of productivity

Yizumi is one of the world's leading manufacturers of injection moulding machines, with over 3,700 employees, 70.000 machines and operations in more than 70 countries around the world.



Founded in 2002, Yizumi has grown into a global success story and manufacturing giant in under 20 years.

It was the first moulding machine manufacturer to be listed on China's Shenzhen Stock Exchange and continues to gain an increasing share of the global machinery market.

Yizumi's success is based on meeting the needs of local manufacturing businesses on a global basis. Compliance with international quality standards and legislation are at the core of Yizumi's manufacturing strategy.

Here in the BeNeLux we at BNL Machines are proud to be associated with a world leader such as Yizumi.



A comprehensive machine range to fit your needs precisely

The Yizumi range includes general purpose, all-electric, hybrid and two platen machines, to cover virtually any injection moulding application.

From versatile 30 tons machines right up to the top-of-the-range 4000 tons DP Series two platen machine, every Yizumi injection moulding machine offers an unbeatable combination of productivity, reliability and value-for-money. All Yizumi machines feature state-of-the-art European control systems as well as a host of other top quality European-made components including valves, seals, transducers and switchgear. This focus on European components is the result of Yizumi's R&D and manufacturing policy of benchmarking

designs and product performance against the best that Europe and the world has to offer.

To compete and win in global machinery markets, there is no room for compromises on quality.

The four different models within the Yizumi range are all built to the same standards and are covered by warranties that are upheld by the company's global partners, including BNL Machines in the BeNeLux.

Yizumi machine range clamping force (tons)

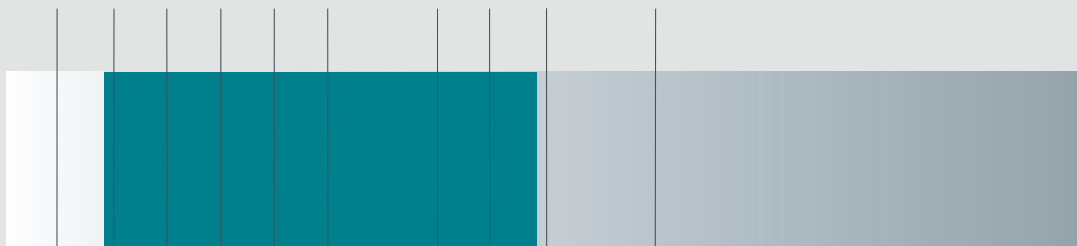
0 200 400 800 1200 1600 2000 2400

2800

3200

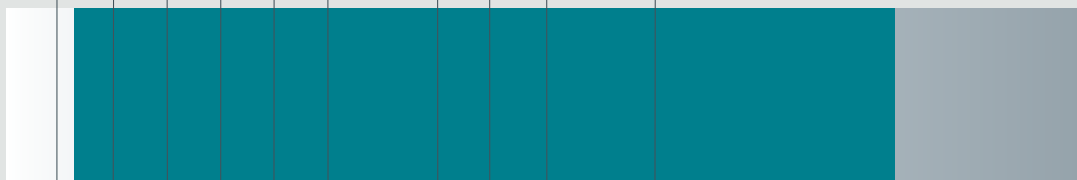
Yizumi FF Series

Hybrid / All electric 90T – 1380T



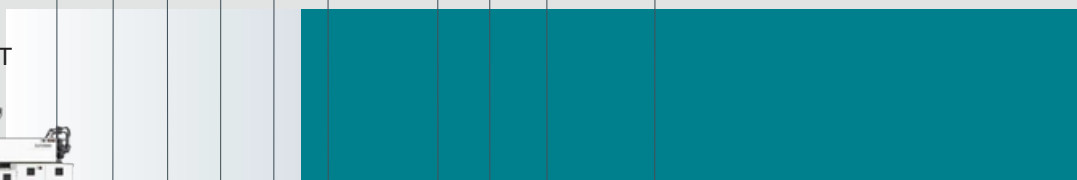
Yizumi A5 EU Series

Toggle lock, 30T – 2700T



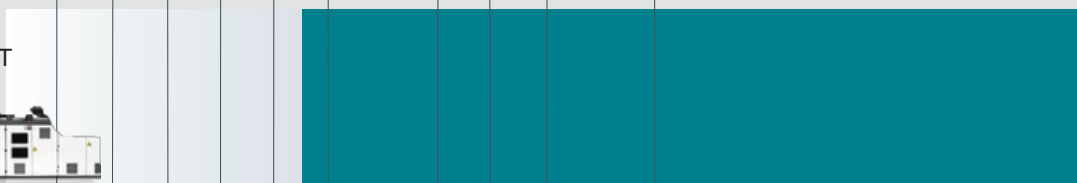
Yizumi D1 Series

Two platen direct lock, up to 4000T



Yizumi DP Series

Two platen direct lock, up to 4000T



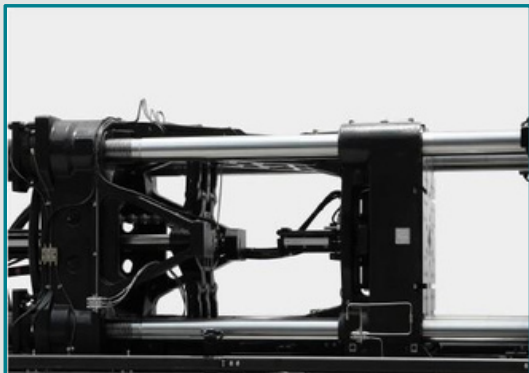
Yizumi A5-EU Series

Designed and built to European standards, Yizumi's A5 EU Series is a versatile, reliable, servo injection moulding machine that makes high precision and energy efficiency more affordable.

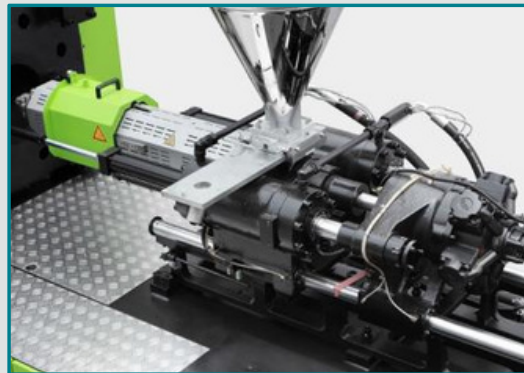
High-end features as standard

- Increased tie bar spacing across the entire range
- World famous Austrian-made KEBA control unit
- Control of oil & barrel throat temperature via KEBA controller
- Semi-auto start button on a flying lead with magnetic base
- Injection hold changeover by time, distance or pressure
- European-made linear transducers, seals, hydraulic valves & switchgear
- Water manifold with 6 circuits
- 2 air-blast circuits with pneumatic valves
- Double core pull
- Euromap 67 interface
- Ejector safety circuit
- Oil preheating circuit
- Servo motor energy saving pump system
- 4 x three phase auxiliary sockets
- CE certification
- Anti-vibration mounts
- Tool kit, mould clamps & spares package
- Warranty supported by BNL Machines in the BeNeLux





The Yizumi A5 EU Series features a robustly engineered toggle clamping mechanism with class bar spacing



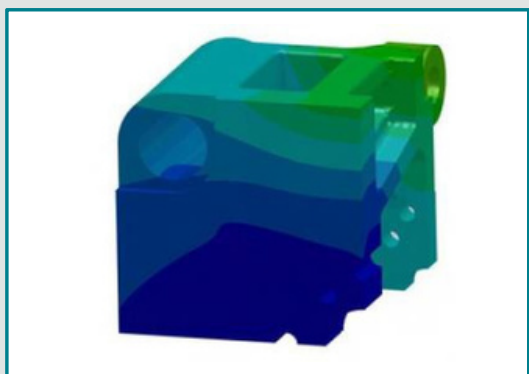
Optimized unit design increases rigidity and enhances stability and precision of injection



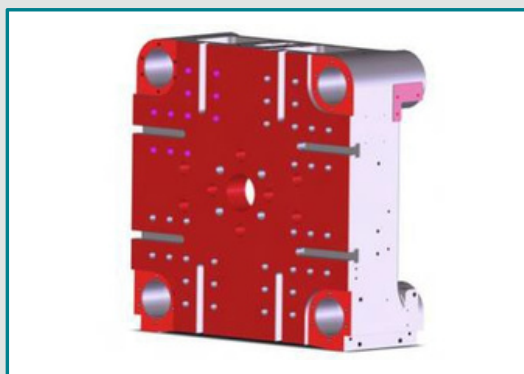
Two pistons – ensures reliable operation over an extended working life



3rd generation servo system uses 30 - 80% less energy



The design of the clamping mechanism achieves evenly distributed forces, resulting in minimal deformation of platen



T-slot design extends platen life and makes changes easy and convenient

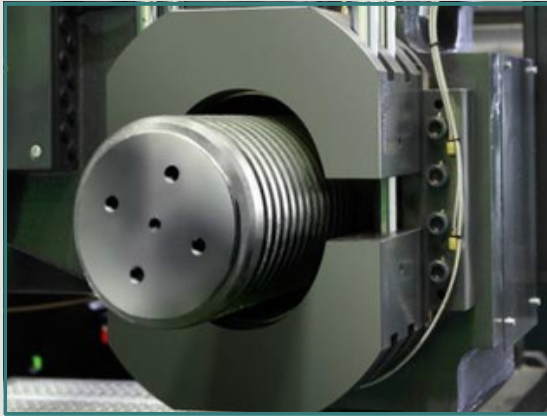
Yizumi D1 Series

The D1 series is a two-platen machine offering high efficiency, precision and reliability. This design of machine offers large tie bar spacing in a compact footprint with fast cycle times.

High-end features as standard

- European, oil-cooled, two-headed motor-driven servo drive delivers fast response and maximum energy efficiency
- Austrian KEBA control with dual CPU is stable, fast & accurate with 12" TFT colour touch screen display
- Based on European design technology
- High rigidity clamping unit delivers stability & accuracy, combined with uniform stress distribution on the tie bars
- Rexroth highly responsive dual proportional valves on clamping unit offers accurate repeatability
- Mould open position accurate to $\pm 0.2\text{mm}$
- Tie bars independent of moving platen offers precision & speed
- Small footprint compared to traditional three platen design
- Durable ceramic heater bands
- Time, position or pressure switchover for holding phase start
- European oil seals & guide rings
- Double core pull
- Double air blast circuit
- Euromap robot interface & Euromap mounting
- Precise filtration and independent cooling system
- Warranty supported by BNL Machines in the BeNeLux





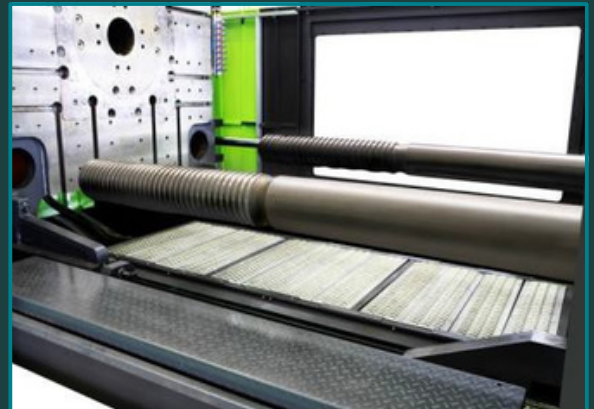
Impact-cushioning synchronized lock nut closing is fast and more reliable.



High-rigidity L-shape guide on machine frame, with guiding precision up to 0.05mm, facilitate fast and steady motion of platen.

Options

- Synchronous ejection and core pulling
- Magnetic platen
- Hot runner interface
- Bi-metallic screw & barrel
- High-response accumulating servo injection system
- Plasticising during mould opening
- Multiple sets of core pull or unscrewing devices with electrical interfaces



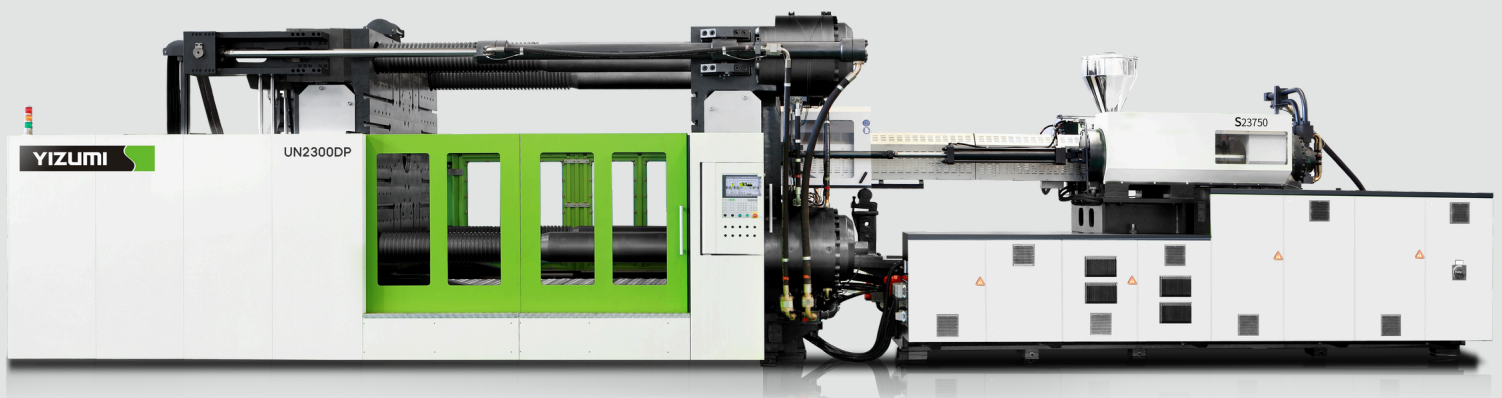
Wear & corrosion resistant tie bars with uniform stress distribution.

Yizumi DP Series

The DP series is a dual platen machine designed to be highly customisable to suit a wide range of applications. With many combinations of clamp unit and injection unit available, the DP series is ideal for use with products requiring high quality, high precision and the latest moulding innovations – all while maintaining efficiency and maximising value.

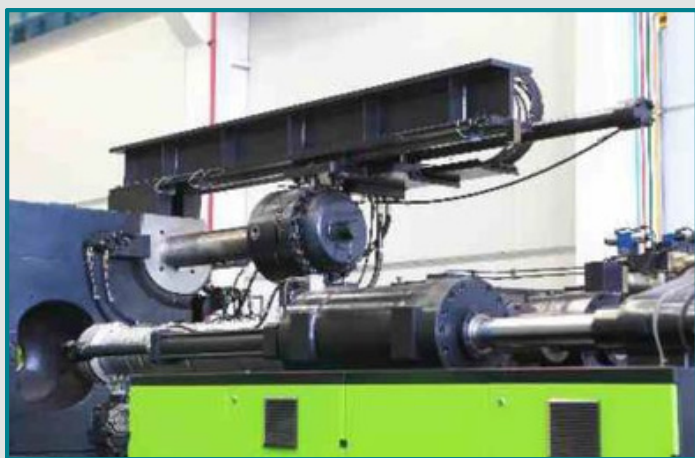
High-end features as standard

- Japanese Yuken dual displacement piston pump with servo drive and servo motor saves between 20% and 60% energy compared to a variable displacement pump
- User friendly and renowned Austrian manufactured KEBA controller
- Non-contact magnetostrictive sensors used for measuring position
- High-rigidity T-slot platen
- Easy-to-maintain open ejector cylinder design
- Diagonally located high-speed cylinders for faster mould opening and closing
- Sliding shoes designed specifically to support large moulds with two thirds of the mould weight taken by the moving platen
- Short stroke high-pressure cylinders offer fast pressure build-up and mould protection
- Non-contact design between tie bars and movable platen for lower maintenance
- Ceramic heater bands
- Low-speed high-torque hydraulic motor for screw drive
- Large area safety foot plates aid access
- Swivelling injection unit shortens the time spent on plasticising unit maintenance
- Warranty supported by BNL Machines in the BeNeLux



Options

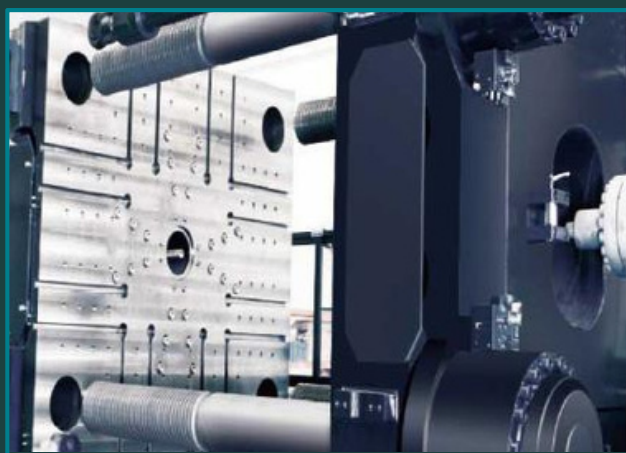
- Pump and motor unit can be specified to suit the application if required and can lead to further gains in efficiency
- Tie bar pulling, magnetic platen and quick mould change systems available as options
- Optional accumulator assisted injection
- Specific screws for processing different materials can be specified to suit the application



Tie bar pulling device, magnetic platen device and quick mould change system are available as options



High-rigidity supports and precision linear guides ensure high repeatability



A simple reliable and compact structure, facilitates lower maintenance costs and shorter dry cycle times

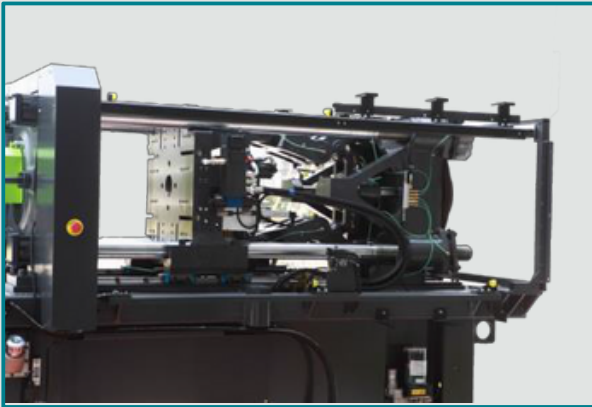
Yizumi FF Series

The FF range of all electric encompass the benefits of electric drive with the practicalities of hydraulic operation, resulting in the perfect blend of efficiency and value. The FF series uses servo motors for absolute accuracy with the combination of hydraulic movements for linear movements such as carriage movements and core pull sequences. Optimizing the drive method for the movement is where this range of machine really appeals.

High-end features as standard

- Three servo drives allow multiple parallel movements.
- Servo hydraulics available for double cores, unscrewing, valve gate control, ejector and shut off nozzle.
- Contact free tie bars give improved platen parallelism, reduced energy consumption and a contaminant free moulding area.
- Modular design allows for a large combination of injection units and screws to be chosen for each machine size. Bespoke customisation of a machine for a particular application is possible.
- 12-inch colour touchscreen control interface.
- Intelligent mould protection.
- Linear clamp bearings give a cleaner mould area.
- High performance servo drives.
- Highly accurate clamp movements with the servo drive control.
- User friendly Austrian manufactured KEBA controller.
- T-slot and Euromap fixing hole layout.
- Top quality European sourced major components.
- Industry 4.0 ready machines.
- Double core pull.
- Two air blasts.
- Robot Interface.
- Dosing signal.
- 3 x 3 phase sockets & 2 x 1 phase socket.
- Tool kit.
- Spare part kit
- Set of mould clamps
- Warranty supported by BNL Machines in the BeNeLux

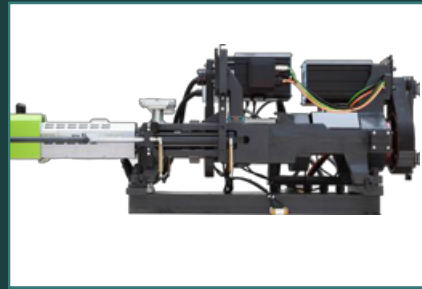




Fast and steady mould opening/closing speed with repeatability of positions $\pm 0.03\text{mm}$

Options

- Bi-metallic plasticising unit.
- Ejector can be upgraded to electric drive.
- Gas injection interface.
- Interface for magnetic platen.
- Interface for mould cavity pressure transducer.
- Increased maximum mould height option.



Optimal drive technologies utilised for each movement on the injection unit.



The integrated design of the plasticising unit enhances overall rigidity.



Contact free tie-bars allow fast and stable mould opening/closing and significantly reduce energy consumption, causing no pollution to the working environment.

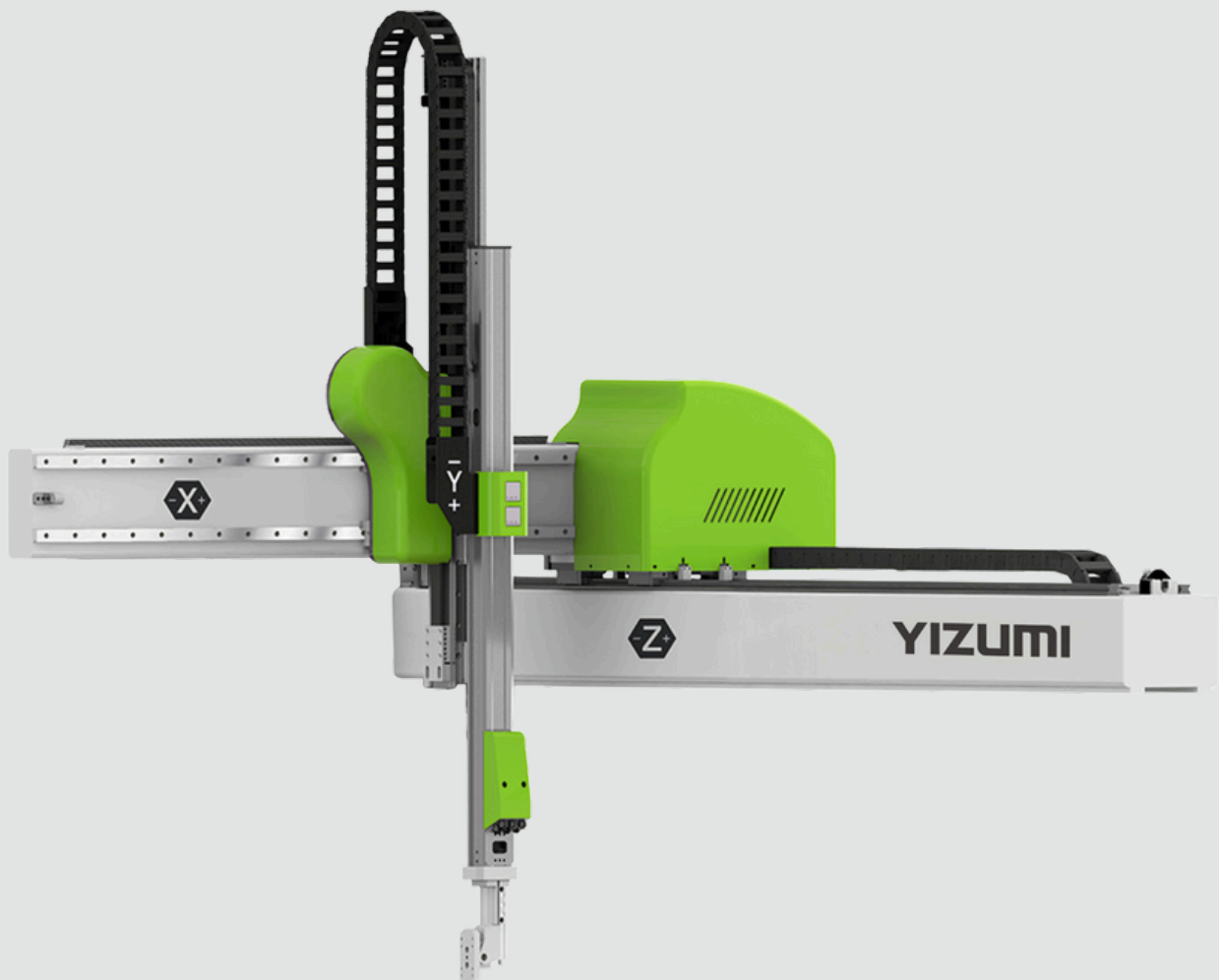
Yizumi YR Series

The YR Series of robots suits injection moulding machines with a clamp force ranging from 30 to 4000 tons.

Single, three and five-axis robots are available, along with sprue pickers. The multi-axis servo controller has stacking, teaching and step by step adjustment functions. It also has the benefit of a real-time operation monitoring protection function to alarm and show the details of any issues to ensure machine safety.

High-end features as standard

- Standard jig.
- Two sets of clips & suction.
- Open programming.
- Conveyor start signal.
- Panasonic/Inovance servo.
- Fully open modular design.
- European concept based design.
- High speed with high precision.
- High accuracy transmission mechanism.
- Low vibration and low noise.
- Long service life.





Single-axis robot



Three-axis robot



Five-axis robot



Pneumatic Sprue Picker

Options

- Quick switch jig.
- Sprue shearing system.
- Multi-set clip & suction circuits.
- Select from forward and backward placement positions.
- Select from Euromap 67 and Euromap 12 interfaces.
- Lubrication system for guide roll.
- Safety inspection of fence/safety door.

World Class Machines Outstanding Support

Yizumi customers all over the world benefit from the highest levels of support. Here in the BeNeLux, Yizumi machines are available exclusively from BNL Machines— a well established machinery supplier with a close working relationship with Yizumi's research and development, manufacturing and customer support facilities.

Investing in capital equipment is a big decision, for any manufacturing business. You need to be certain that you're making the right decision and that your investment will provide the returns you expect.

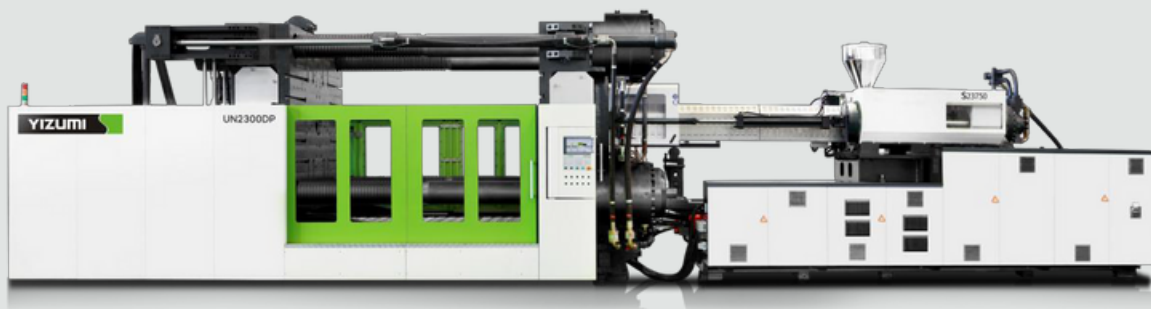
Look at the evidence before you buy. Yizumi has grown to be one of the world's leading injection moulding brands in under twenty years, with thousands of machines operating throughout Asia, Europe and America.

So, while you may not be – yet- familiar with the brand here in the BeNeLux be assured that you're buying into a well-proven winning global formula.

Equally importantly, BeNeLux' Yizumi customers get the reassurance of full factory-backed support via BNL Machines with a successful twenty-year track record serving customers from small factories to major global OEMs.

Through BNL Machines, you can be sure of:

- Fully trained in-house service & maintenance team
- Informed, expert technical support
- Fast- track deliveries of spare parts from Asian and European stock.
- Life-cycle support from mould trials and machine commissioning, to regular planned maintenance
- Additional support services, including integration of auxiliaries to streamline your manufacturing



Learn More About Yizumi Information Page

Yizumi Precision Machinery Co Ltd was founded in Guangdong, China in 2002. It has since spread its wings all over the world. Specialising in the moulding equipment manufacturing industry, it offers a one-stop solution as an equipment supplier, integrating the functions of design, research and development, manufacturing, sales and customer service.

Global production bas area of
600 000
m²

More than
3700+
Employees

23+
Spare part centers overseas

Present in more than
70
countries and regions

70 000+
machines operating
successfully worldwide

Invested
€20M+
in R&D

More than
400+
patented technologies

6+
Overseas divisions incl.
germany



Yizumi were the first moulding equipment manufacturer to be listed on the Shenzhen stock exchange. Since the company's inception, structured expansion has been of the highest importance.

The company stats are pretty mind boggling by European standards, three production sites totalling 195,000m² producing 7000 machines a year. Our team has visited the production facilities and they are of top quality, using the latest equipment.

Today, Yizumi has facilities throughout the world ensuring that each customer benefits from a rapidly expanding servicing, parts and knowledge network. Yizumi have a target of increasing annual overseas sales by an average of 25%, we're pleased to be able to support this effort.

BNL Machines is the first point of contact for any service requests in the BeNeLux, our in-house technical team is available to offer immediate help if required, but it's nice to know there is an entire support structure if required.



Yizumi machines are supplied with the world renowned KEBA control system.



Yizumi is a Japanese word that means
'Spring'

Additional Information
www.bnl-machines.com
www.yizumi.com

Who We Are BNL Machines

Discover BNL Machines - Your Trusted Partner in Plastic Processing Solutions!

Established in 2008, BNL Machines brings over three decades of expertise in the plastics industry. Our founder, with extensive experience in thermoforming and injection molding, laid the foundation for what has become a leading force in the field. Over the years, our team has grown steadily, now comprising 8 dedicated professionals.

Based in Hoegaarden since 2013, our spacious 2000m² facility accommodates offices, a work hall, and a spare parts inventory, ensuring prompt service and support.

From representing Illig thermoforming machines in the Netherlands to expanding across the entire BeNeLux region, we've consistently broadened our offerings. In 2015, we introduced Battenfeld-Cincinatti extrusion lines, followed by various plastic welding technologies.

In 2019, we embarked on upgrading and overhauling existing Illig thermoforming machines, enhancing efficiency and performance with modern Siemens controls and comprehensive mechanical and electrical conversions.

Now, in 2024, we're excited to announce our partnership with Yizumi for the representation of injection molding machines in the BeNeLux. After extensive training and a visit to their headquarters in China, we're fully equipped to tackle this new frontier. Stay tuned for technical training sessions and the installation of a demo machine in our workshop, allowing for hands-on demonstrations and testing.

Explore our website for detailed information on our comprehensive product range and reach out to us for all your plastic processing needs. Experience excellence with BNL Machines!



For further information about Yizumi machines, or to arrange a visit to our facilities please contact us on +32 16 36 99 33 in Belgium, +31 23 529 38 37 in the Netherlands or Email us on sales@bnl-machines.com or visit www.bnl-machines.com