

NEO

discover

NEO • T

Toggle System IMM

NEO • HII

Two-Platen IMM

NEO • EII

Electric IMM

NEO • M

Multi-component IMM



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tederic
SMART INJECTION

About Us



Basic Facts & Figures



1000
Staff worldwide



335,000
Production plants(m²)



140+
Exporting countries

An international partner with solid background in the industry - based on trust and industry experience.

Tederic is a world-leading provider of molding solutions, providing complete and sustainable industry-wide molding solutions for plastic molding and metal molding. As a listed company (603289-SH), we have a wealth of industry experience, good performance and professional knowledge. Focusing on creating real value for our customers and pursuing excellence, we uphold flexible methods and continuous innovation to create high-quality,

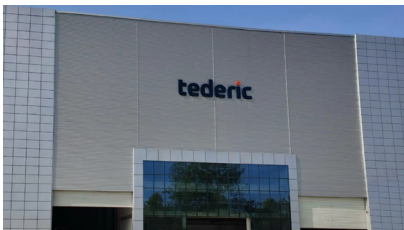
lasting, efficient and value-added products for you. Tederic has always insisted on independent innovation, with the core technology of injection molding machine and die casting machine and the inhouse manufacturing capacity of main parts. With precision casting, large-scale welding, precision machining, electrical assembly, machine assembly, software development and other vertical industry chain advantages to

provide guarantee for our product development, quality, cost and delivery. More than 1,000 Tederic employees are serving customers from all over the world. To date, Tederic products operate in more than 140 different countries and regions, covering a variety of industries: automotive, home appliances, construction, logistics, packaging, medical, electronics, etc.



Tederic Global Headquarters & Tederic Smart Factory

- 33,334 square meters
- Global headquarters
- All electric IMM assembly intelligent base
- R&D center



Tederic Metal Sheet Factory

- 13,334 square meters
- Sheet metal processing and spraying
- Electrical cabinet assembly



Tederic Casting Factory

- 60,000 square meters
- Foundry and CNC center
- Machine processing and production base



Tederic Giga Factory

- 164,674.5 square meters
- Hydraulic IMM assembly and die casting production base

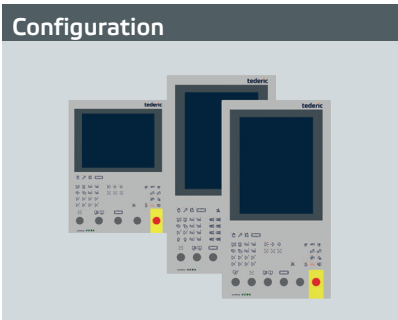
NEO

Design drives change, evolution, usability and functionality

NEO series is jointly created by the top design team in the world and tederic team, which embodies 20 years of technical accumulation of tederic and also fully displays the industrial aesthetics. It combined perfectly the world's leading industrial design, high-end components and advanced design concept, which brings a better user experience.

Controller

- Professional controllers with years of experience.
- Multiple dimension of screen available from 12 to 18 inches.
- Screen available by key screen and touch screen, optional of high-end multi-touch screen. Support for multiple data interface protocol, like OPC UA, Modbus.
- Massive amounts of mold process data & production process data.
- Open programming, enable to develop secondary programs, to meet a variety of special process requirements.



Safety Standard



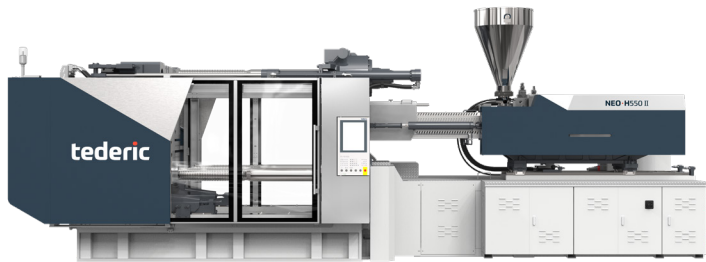
Supported Languages



NEO • T



NEO • HII



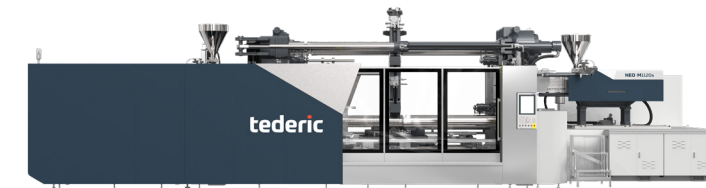
NEO • EII



NEO • Mv



NEO • Ms



NEO-T

Toggle System IMM

NEO-T adhering to the design concept of minimalist elegance, every line, every detail, every piece are born for the optimization of performance.

Clamping force: 90t – 2200t

Stable Precise Energy-saving Flexible

Main application areas



packaging



construction



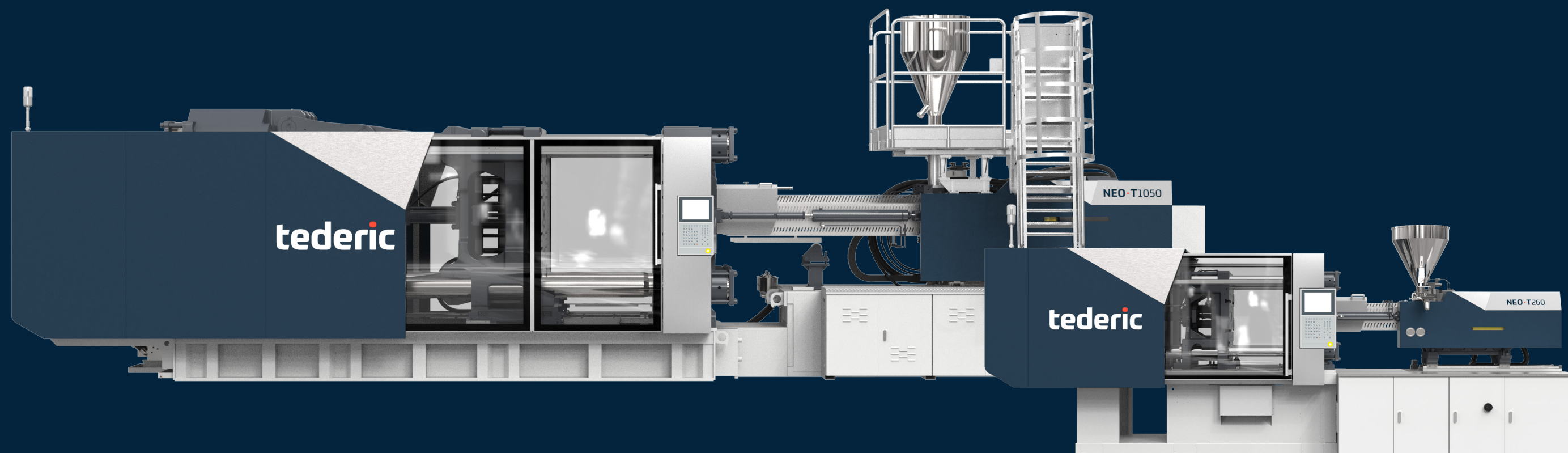
household
appliance



logistics



smart
green



Clamping Unit

Technical Advantages

- Mould open position repeat accuracy $\leq 1\text{mm}$
- Max.mold weight increase 15%
- Tie bar unbalance rate $\leq 4\%$
- Self-made key units, high precision components

Ultra-high rigid platen structure

In-built toggle pin design(available for $\leq 400\text{t}$, 500t), built-in pin shaft provide the larger clamping space,improve the rigidity of the clamping unit and reduce the length.

NEO-T260 as an example, the main stress reduce 25% and length reduce 200mm.

Automatic lubrication of clamping mechanism

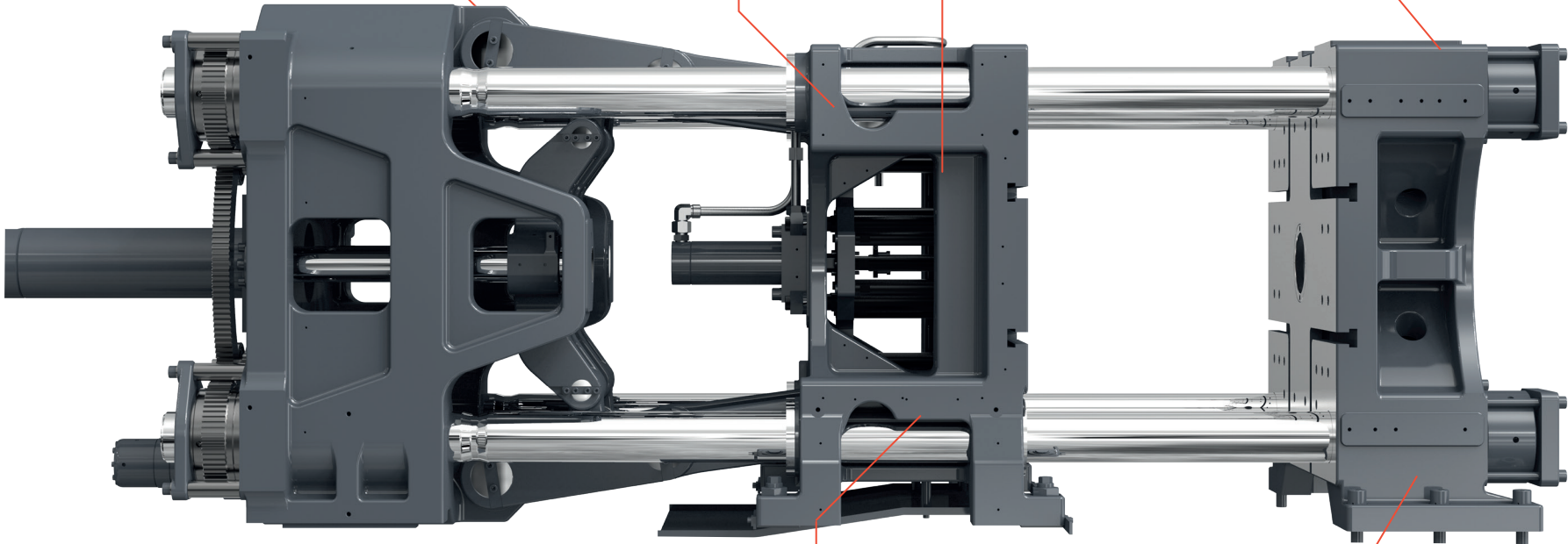
Thin oil & grease double pump automatic lubrication

Open and close mold brake oil circuit design

Improve the end position of mold opening to be more accurate.

Standardized robot mounting:

Euromap standard robot mounting hole pattern.



The sliding foot of the moving platen is extended and the adjustable support device

It can support increase the mold bearing load by 15% with better paralelism and simply adjustment.

Box type structure

Reasonable layout ensures low deformation, even press distribution, better tie bar positioning and fully improved performance.

NEO-T

Injection Unit

Technical Advantages

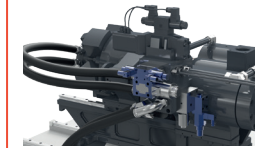
- Modular design
- Injection repeat accuracy $\leq 0.5\%$
- Temperature control of barrel $\pm 1^\circ\text{C}$
- Injection speed is improve by 15~30% for small IMM while 5~10% for large IMM

Twin carriage cylinders >1600
Balanced carriage nozzle contact force ensures precise nozzle alignment and helps to avoid material leakage.



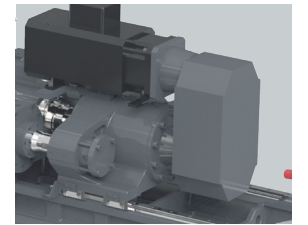
Proportional back pressure control

More consistent plasticizing and melt homogeneity.



Electric plasticizing system (option)

Increase the charging efficiency, reduce the cycle time to realize the plasticizing on the fly.



Injection double-layer linear rail structure

Linear guides on both carriage and injection for smooth movement aproduct repeat accuracy $\leq 0.5\%$

High plasticized screw
Effectively improve the plasticizing capacity.

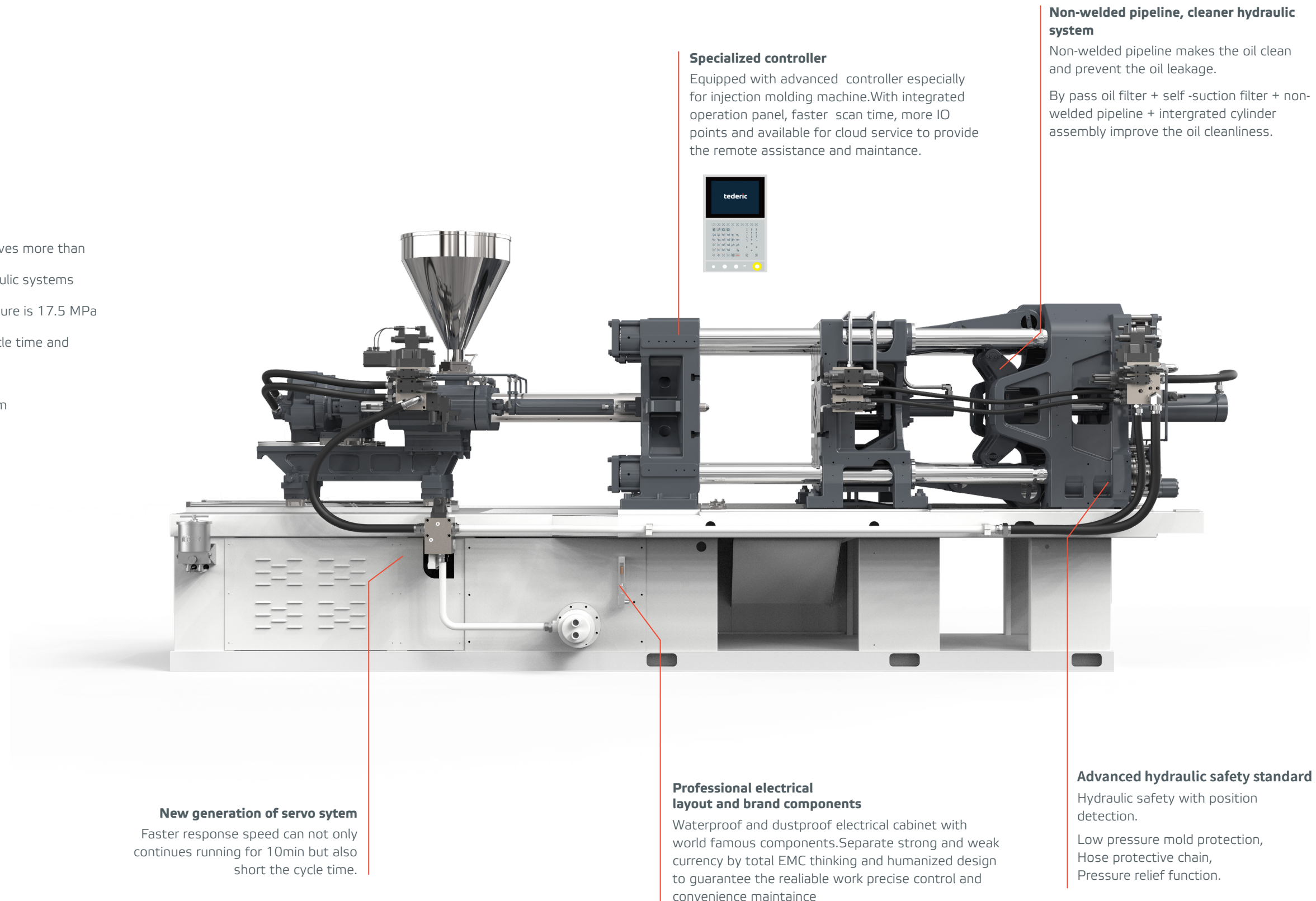
Sliding hopper
Lower moving resistance.

NEO·T

Electrical & Hydraulic

Technical Advantages

- A new generation of servo power system saves more than 30% energy compared with traditional hydraulic systems
- Ultra-high response speed, the system pressure is 17.5 MPa
- Upgrade pump motor power to short the cycle time and widen the molding process
- Non-welded pipeline, cleaner hydraulic system
- More flexible and friendly used



NEO·HII

Two-Platen IMM

Tederic is deeply committed to the injection molding industry, backed by professional experience. The NEO·HII series is a collection of innovative patented technologies with flexible and rich functional configurations to provide you with professional customized solutions.

Clamping force: 480t – 5500t

Stabilize Precise Energy-saving Efficient

Main application areas



automotive
parts



household
appliance



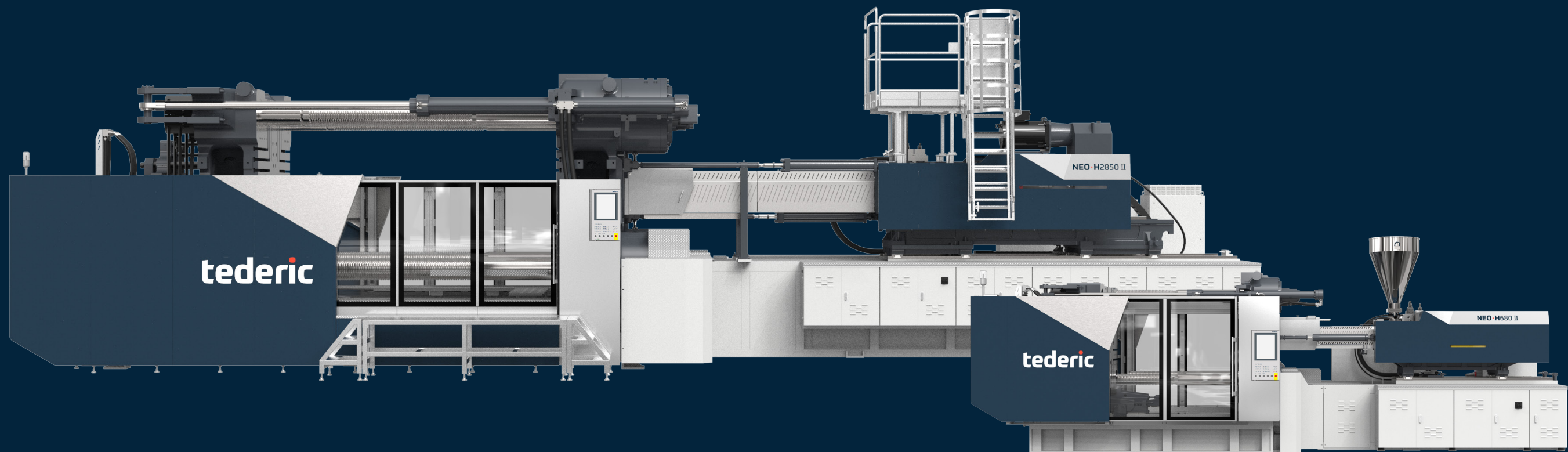
logistics



smart
green



basic
supply



NEO·HII

Clamping Unit

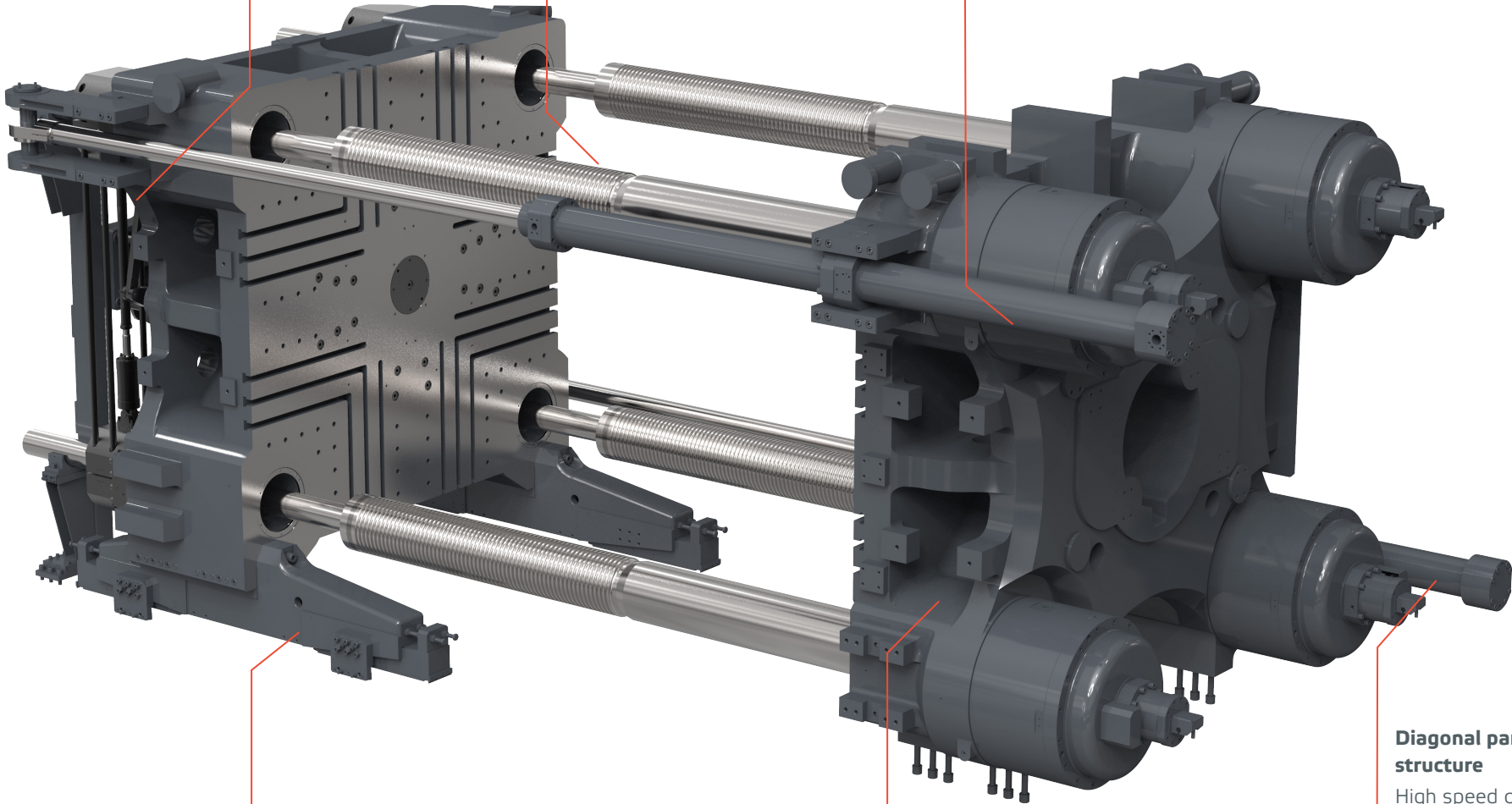
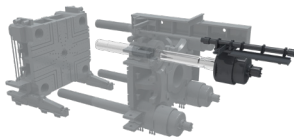
Technical Advantages

- Huge mold space, clamping stroke can be expanded
- Mould open position repeat accuracy $\leq 0.5\text{mm}$
- Modular design of mold opening cylinder
- Increased mold support weight by 15%
- Tie-bar load eccentric $\leq 4\%$

Stable synchronous lock structure
Lock cylinder with buffer unit.
Accurate alignment without impact,
stable tie bar position with even
force.

**Huge mold space and
opening stroke**
Flexible for more molds.
The exclusive mold protection
function of the two-platen
machine is safe and reliable.

Pullsurre™ technology (option)
Solves customer factory
height limits, improves
mold change efficiency.



**Sliding foot oblique iron type
support device**
Can support heavier molds, mold
Support weight increased by 15%.

High repeatability
Improve the positioning accuracy
and repetition accuracy of the end
position of mold opening.

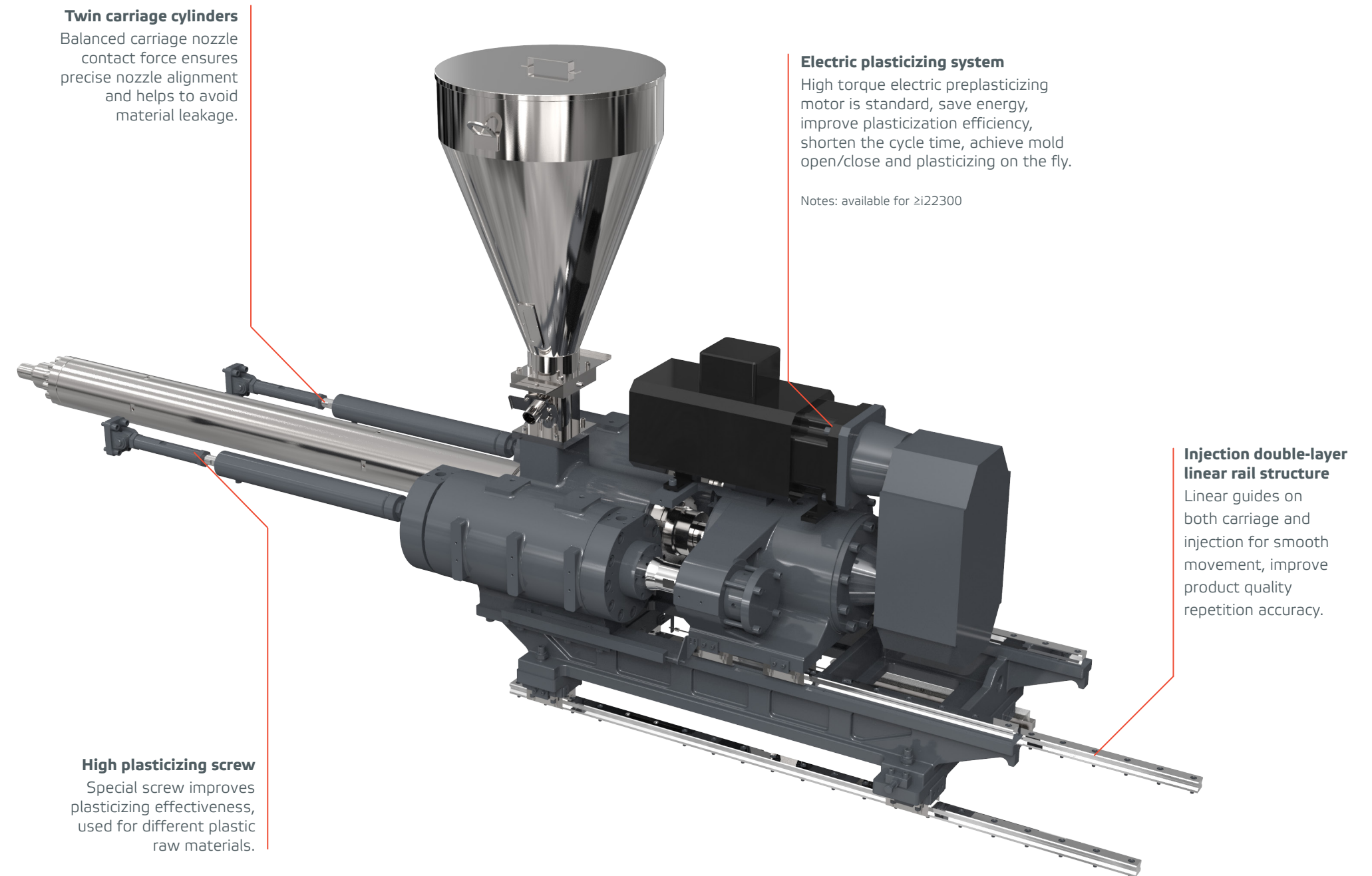
**Diagonal parallel cylinder
structure**
High speed cylinder with
Diagonal parallel structure,
guarantees stable and fast
mold clamping & opening,
shortens dry cycle time.

NEO·HII

Injection Unit

Technical Advantages

- Precise and stable injection linear guide
- Modular design
- Temperature control of barrel $\pm 1^{\circ}\text{C}$



NEO·HII

Electrical & Hydraulic

Technical Advantages

- Standard KEBA high-performance control, powerful open software platform
- Mold open/close and plasticizing on the fly is std for all machine
- Increased oil pump motor power, decreasing pressure-up time by 50%
- Functions customizable, more humane and flexible

Accurate control for mold opening & clamping

Improve mold opening positioning accuracy and shorten mold opening and closing time. Combined with proportional direction valve guarantee stable mold opening & clamping.

International standard control system

Standard 15-inch KEBA high-performance Control system based on Linux system; Protocols of OPC and Modbus are used for Industry 4.0 access; freely programmable, Convenient for secondary development and realize various functions. Larger size screen, more comfortable for operator.



Increased oil pump motor power

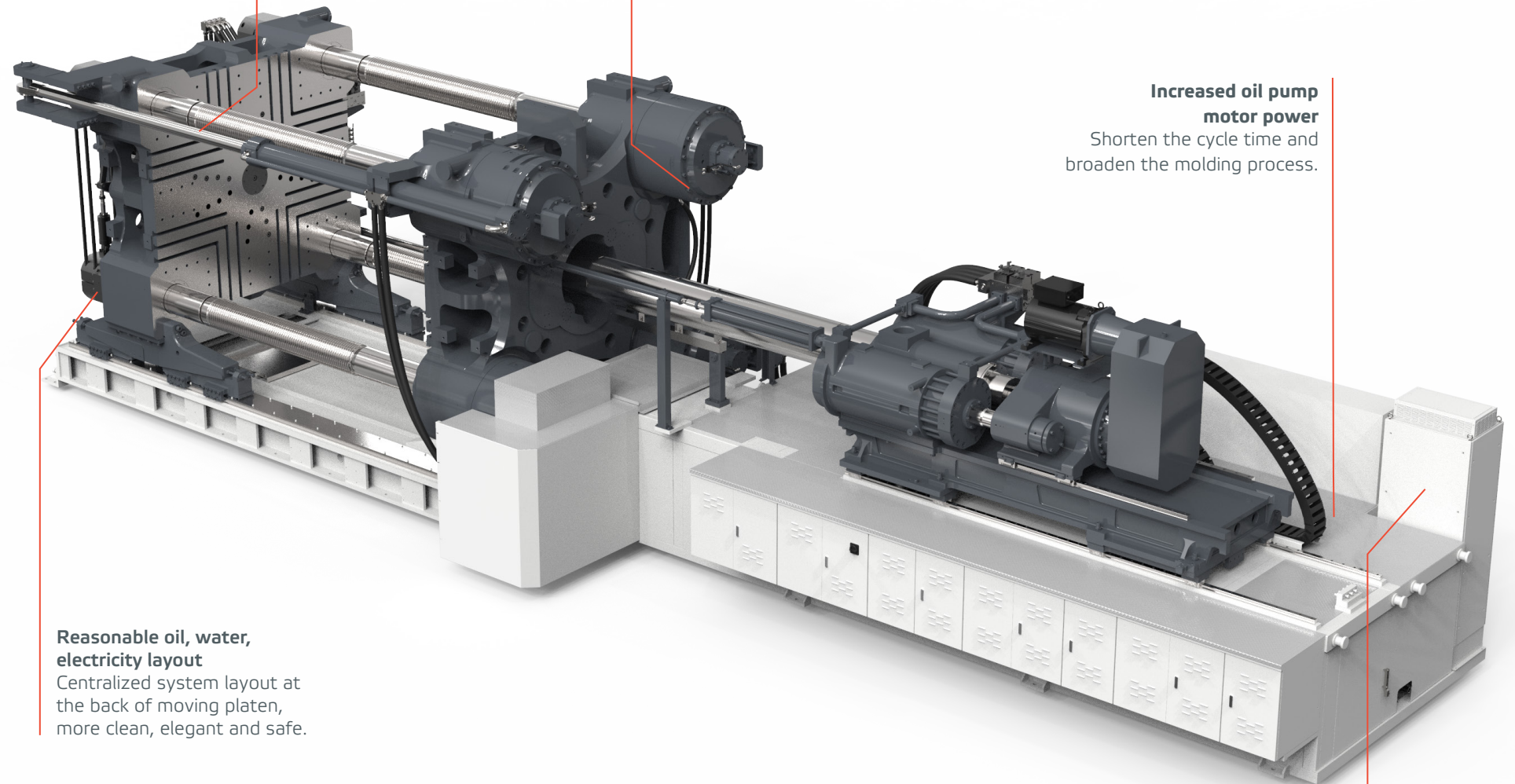
Shorten the cycle time and broaden the molding process.

Reasonable oil, water, electricity layout

Centralized system layout at the back of moving platen, more clean, elegant and safe.

Modular design of electric control cabinet

Independent electric cabinet is designed based on high and low voltage, safer and more reliable.



NEO•EII

Electric IMM

Superb electric technology and rich application experience. The NEO•EII electric IMM comes with an advanced energy recovery system as standard, saving up to 15% more energy than other electric motors.

According to Euromap60.1 energy consumption standard, NEO•E series products are more than 9+

Clamping force: 60t – 1400t

Precision Efficiency Energy saving Clean

Main application areas



automotive
parts



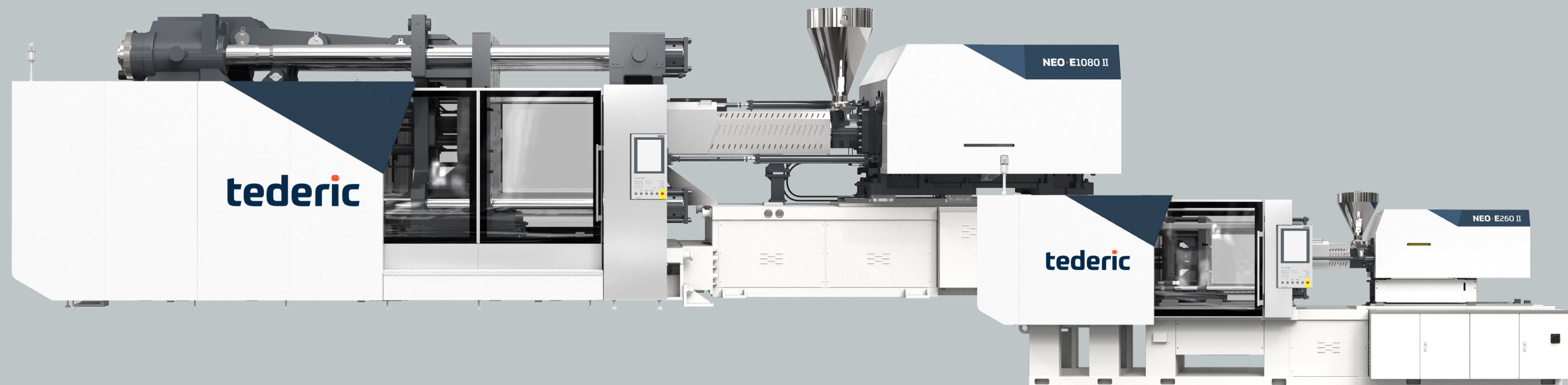
teletronics



medical



packaging



NEO·EII

Clamping Unit

Technical Advantages

- Precision controlled by servo motor, repetitive positioning accuracy of mold opening position is up to 0.01mm
- No lubrication of tie bar, optimizing the cleanliness of the clamping unit
- Huge mold capacity to achieve cross-level benchmarking of parameters

Toggle structure with 5 point

The strengthened platen and the stabilized toggle structure are respectively designed by professional mechanics analysis and professional motion analysis.

The central pressing effect of the V-shaped toggle mechanism makes the clamping force evenly transmitted to the mold. Reduce the excess clamping force and protect the life of the mold.

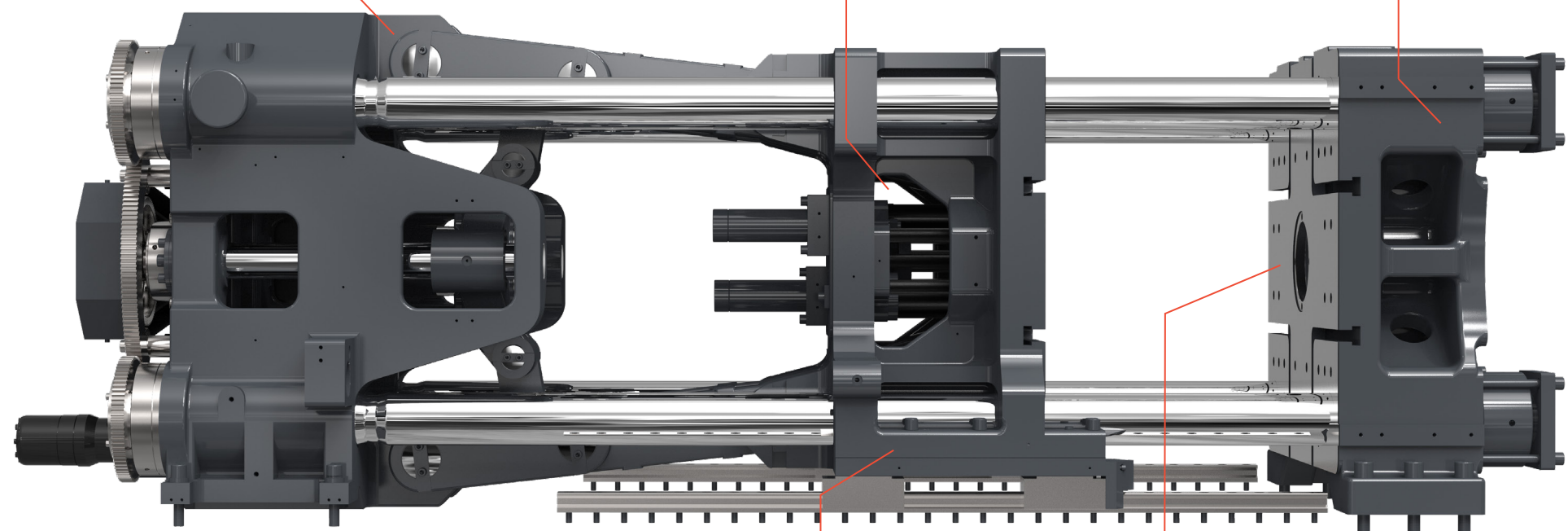
Alternative Hydraulic/ Electric Ejector

The ejector pin will not retreat even when the door is opened or the power is cut off, ensuring the safety of the operator.

Notes: 60-90 equipped with electric ejector as standard

High-strength platen material combined with ultra-high rigid platen structure

The platen strength is increased by 33%, and the hardness is increased by 18%. Reduce mold deformation, increase mold service life, and improve product consistency.



Linear guide structure is used for moving platen

Improve the load-bearing capacity of the mold; improve the parallelism and positioning accuracy of the platen; reduce energy consumption; optimize the cleanliness of the clamping unit.

Notes: clamping unit with linear guider available for ≤ 470

Platen with T-slot

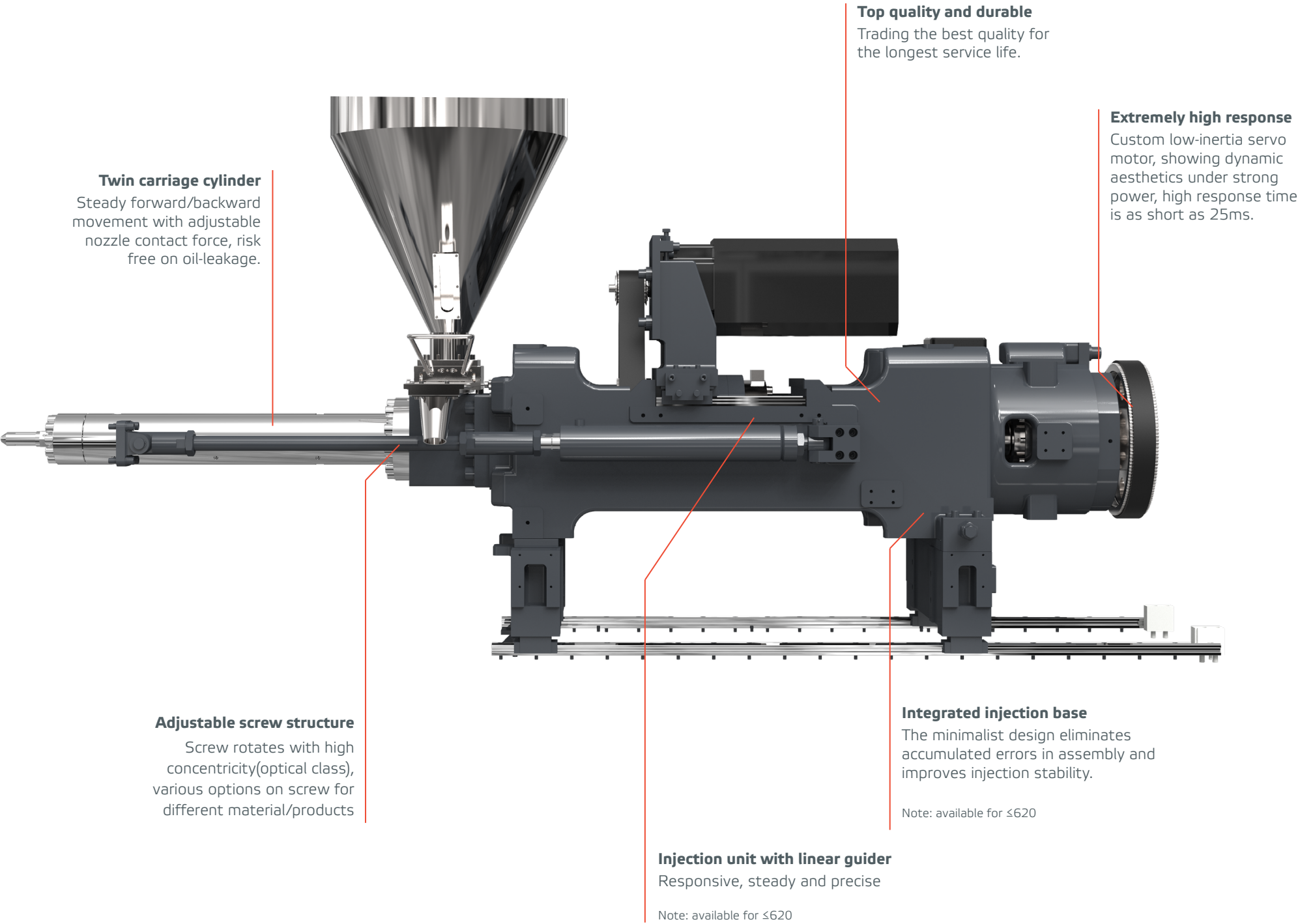
High-rigidity Platen with T-slot and in-built locating ring, easy and convenient for mold (un)install

NEO·EII

Injection Unit

Technical Advantages

- Pressure control accuracy is up to ± 1 bar, which can achieve 0.1% repeated precision of product quality
- Multiple injection speeds are available, up to 500mm/s
- Excellent low-speed characteristics, smooth injection below 1mm/s



NEO • EII

Electric IMM

Technical Advantages

- Dry cycle time reduce upto 26%
- Specialized all electric control system
- Modular electric cabinet
- Integrated hydraulic package
- Stack driver units



NEO·M

Multi-component IMM

NEO·M has industry-leading multi-color injection molding technology, flexible modularization, professional customized design, to meet your diverse process needs. Tederic continues to innovate and explore the possibilities of injection molding.

NEO·Ms Opposite Injection Molding Machine with Horizontal Rotary Turntable

Clamping force: **1120t – 3320t**

NEO·Mv Multi-Component Injection Molding Machine with Vertical Rotary Turntable

Clamping force: **750t – 3520t**

Stable Precise Versatile Flexible

Main application areas



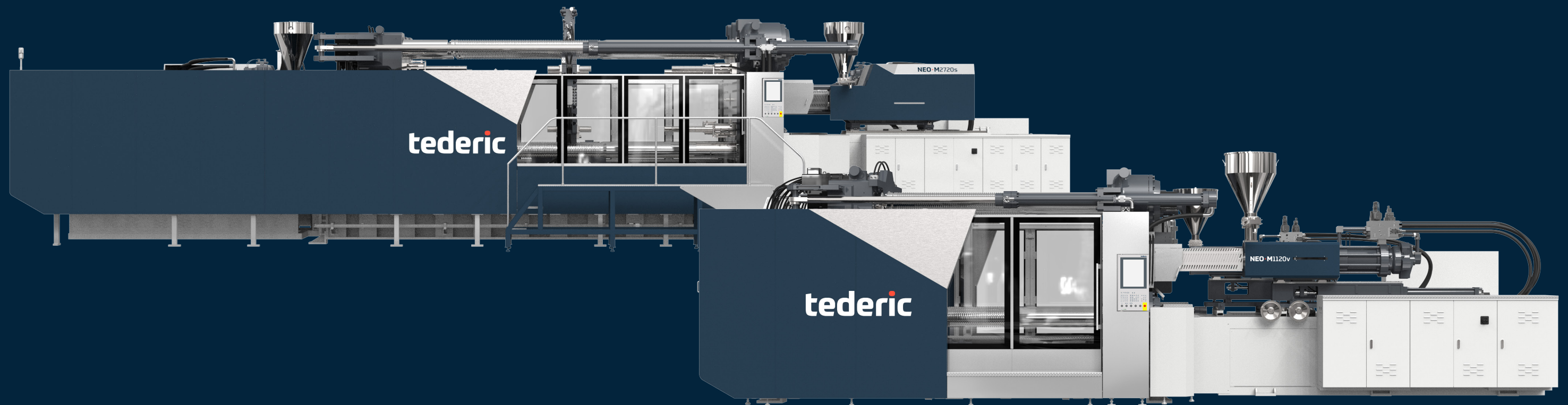
automotive
parts



household
appliance



basic
supply



NEO·Ms

Opposite injection IMM with horizontal rotary turntable

Technical Advantages

- Combination of 2 platen and bilateral injection units, compacted multicolor solution.
- Heavy loading capacity upto 55ton(mid platen)
- Injection reciprocation precision $\leq 0.3\%$
- Repeatability accuracy of mold opening and middle plate end position $\leq 0.5\text{mm}$
- Flexible customization solution(Please consult sales staff for more details)
- Platen rotation precision 0.01°

Opposite arranged two injection units

Two opposite hydraulic injection unit or electric injection unit can be equipped at the same time to meet the requirements of more products characteristics.

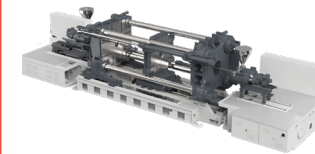
In addition, opposite injection unit moves synchronously with the moving platen, more efficient is achieved.

Exclusive Spinsure™-H horizontal rotary platen

Heavy-duty linear guide for the medium platen: supports heavier molds, lower friction resistance, and runs more smoothly.

The speed reducer and servo motor drive for the rotation of the medium platen: it can rotate larger and heavier molds, adapt to more special two-color auto parts molds, servo control is more accurate, and energy saving.

The medium platen movement is controlled by proportional valve to improve the accuracy of mold opening end position and repeated position.



Sub-injection unit can be matched

It can be equipped with Multimold™ multi-color technology to realize the function derivation of the machine.

Injection unit with proportional valve as standard

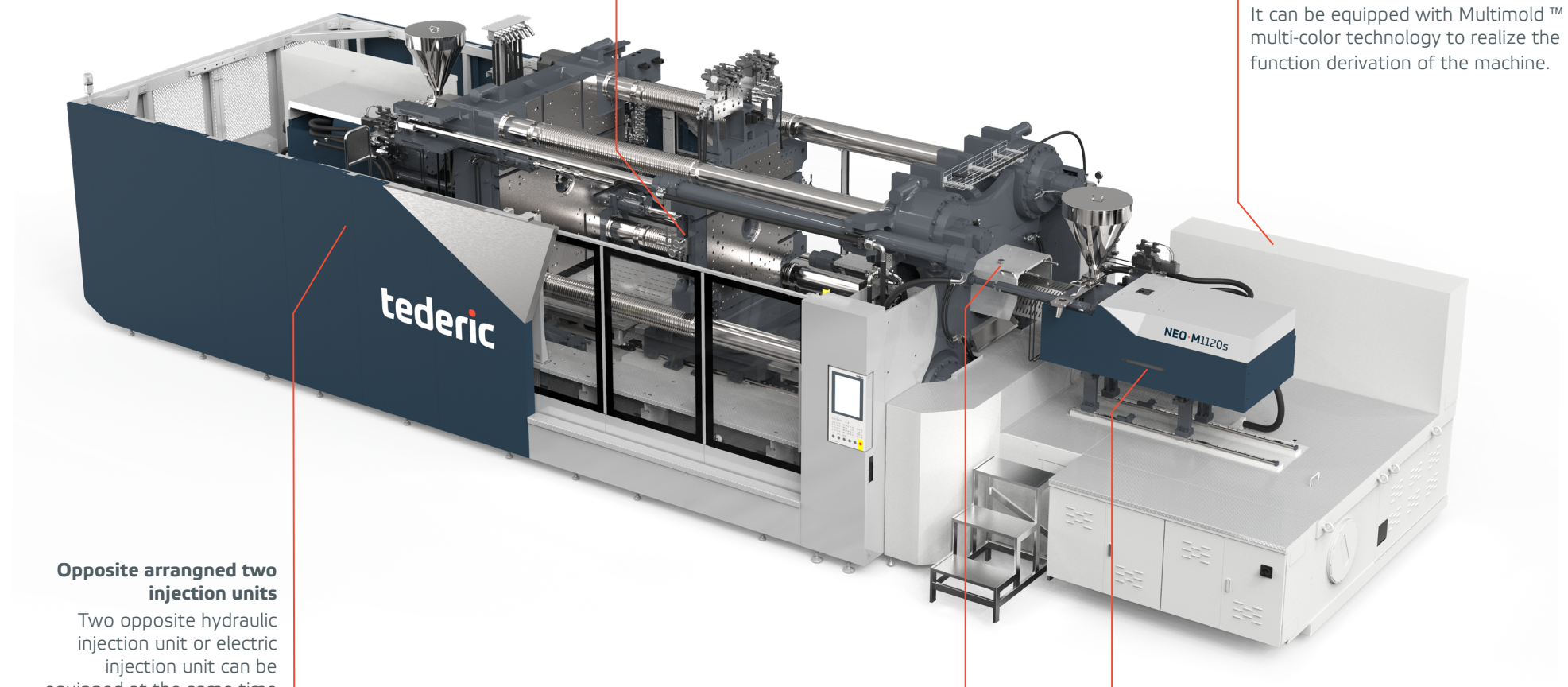
Reciprocation precision $\leq 0.3\%$

Modular selection of injection unit

Electric injection unit: The repeat positioning accuracy of the injection position is up to 0.01mm .

Single-cylinder one-line injection unit: low injection resistance, low inertia and quick injection response.

Parallel injection unit: More stable injection, good sealing.



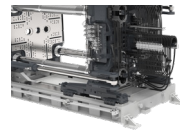
NEO·Mv

Multi-component IMM with vertical rotary turntable

Technical Advantages

- Vertical rotation platen, Max diameter upto 2800mm
- Static pressure supporter, Max mold loading capacity upto 30ton
- More adaptability for mold size, suitable for giant auto molds
- Injection unit with modular design, upto 30 combination possibility and Max compatibility upto to 6 injection units
- Suitable for multicolor and multi-processing injection(e.g. Mable color/sandwich/multi layer etc)
- Platen rotation precision 0.01°
- Repeatability of the end position of the mold opening $\leq 0.5\text{mm}$

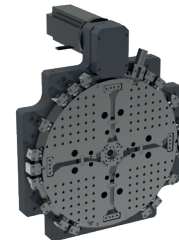
Mid platen with torque tube
High durability/stability, easy maintenance



Independent SpinSure®-V vertical rotary platen

Vertical mold rotary platen can be an independent control unit, achieving modular design.

Easy to install, maintain, and upgrade customer's existed equipment.



Mid platen rotation by servo motor

High precision and multifunctionality

Parallel injection units with adjustable spacing

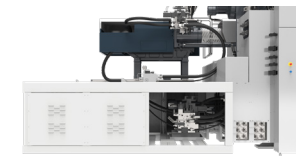
The two sets injection units adopt single-cylinder, one-line injection structure, features precise and efficient running.

The space between the injection units is adjustable, which can adapt to various molds with different sprue distance.

The injection unit can be moved horizontally, and used as single color machine.

Injection unit with proportional valve as standard

Reciprocation precision $\leq 0.3\%$



Static pressure support device for rotary platen

Vertical rotary platen adopts static pressure support and claws to ensure the load capacity of the mold, which can realize heavier mold adaptation and ensure stable running of rotary platen.

