

# NEO

## discover

- NEO·T** Toggle System IMM
- NEO·HII** Two-Platen IMM
- NEO·EII** Electric IMM
- NEO·M** Multi-component IMM

ULTIMATE INNOVATION  
HUMAN CENTERED DESIGN  
NEW TECHNOLOGY  
SMART USER INTERFACE  
FLEXIBILITY



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**tederic**  
SMART INJECTION

Design  
drives  
change.



# About Us



## Basic Facts & Figures

 **1000**  
Staff worldwide

 **335,000**  
Production plants(m<sup>2</sup>)

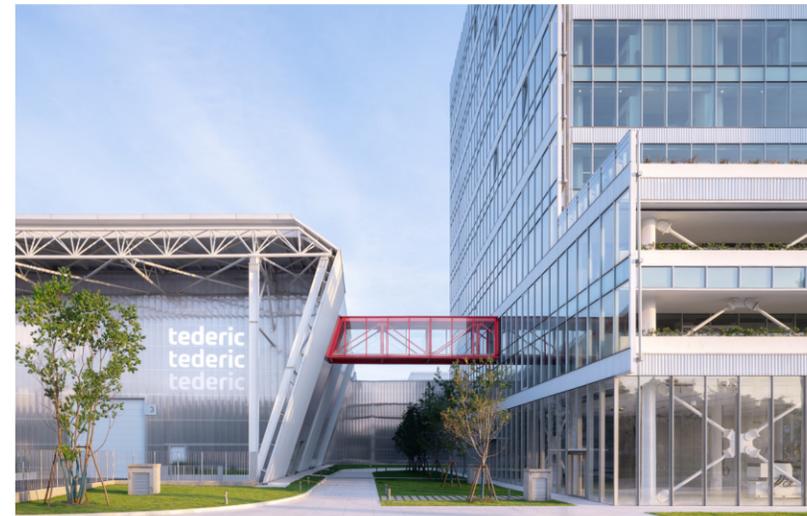
 **140+**  
Exporting countries

## 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,

durable, 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

# Time line

## 2003

Founded as a family owned company, based in Hangzhou city, business mainly in oversea market

Start with first machine series "TRX"

## 2010

Development of the whole industrial chain.

The second series "DREAM" was born to complete the layout of the whole product line.

## 2017

2017 Oct 31th, Tederic becomes the only Chinese injection molding machine brand listed on the shanghai main board stock market in the industry and developed toward collectivized enterprises.

Stock code: 603289·SH

## 2019

Three overseas subsidiaries in Korea, Mexico and Brazil have been established.

## 2023

Tederic global headquarters, Tederic Giga factory and Tederic smart factory goes into operation, covering 164,674m<sup>2</sup> and 33,334m<sup>2</sup> respectively.

## 2008

The first headquarters was set up in Xiasha, Hangzhou. Covering an area of 50,000+ m<sup>2</sup>.

## 2013

The ultra-low melt refers to the waste polymer material one-step compression molding technology, the large four-plate IMM was exported to Japan for the first time.

## 2018

Portugal's overseas subsidiary was established and started to lay out global business outlets.

X-shot® ultra-large injection volume extrusion technology achieved 500kg single shot, and achieve 600kg single shot in 2021.

## 2021

Rebrand and introduce the third generation product line "NEO"

Set up a R&D center in Munich, Germany.

## 2024

Enter the field of metal forming, "IKON" die casting machine was released.

# We are a global partner

So far, Tederic machines have been in operation in more than 140 countries and regions.

At present, Tederic has 5 overseas subsidiaries and 75 sales and services networks in the world.

## AMEA

Argentina	Buenos Aires
America	Florida
Brazil	Sao Paulo
Mexico	Querétaro
Peru	Lima
Canada	Hamilton

## APAC

Malaysia	Hegeri Selangor	Syria	Aleppo
Vietnam	Tinh Hà Ham	Turkey	Istanbul
Thailand	Samut Sakhon	Bangladesh	Dhaka
Korea	Hwaseong	Indonesia	Jakarta
Iran	Tehran	New Zealand	Auckland
India	Coimbatore	The United Arab Emirates	Dubai
Saudi Arabia	Riyadh		
Azerbaijan	Baku		



● Headquarter      ● Sales&Service networks

# Smart service

360° customer care

**140+**

## Perfect service management system

So far, Tederic sales engineers have provided initial installation or subsequent commissioning services to customers in more than 140 countries and regions around the world

**70%+**

## Rich experience in sales and service industry

70% of the engineers have more than ten years of industry experience

**75**

## Global service rapid response

At present, Tederic has 75 sales and services networks in the world



## We are there for you a whole machine life cycle:

- Personal contact
- Consultation already in the initial phase
- Professional Installation and commissioning
- Preventive maintenance
- Repairs
- Spare parts supply by us
- Training courses at our technical center in Munich or at your site
- Support by special loading/unloading and assembly companies who are familiar with injection molding machines
- Retrofitting and modernization

## Tederic service



Spare parts



Retrofit



General overhaul



User training



Maintenance



Product service



Used machine



Application engineer

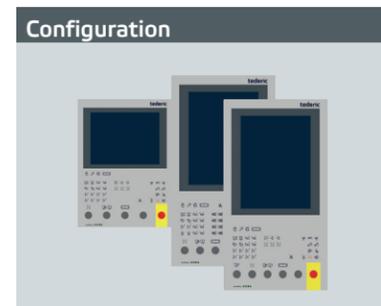
# NEO

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, has dozens of years experience accumulated.
- 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



01

# NEO·T

## discover more

Toggle system  
injection molding  
machine

# 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



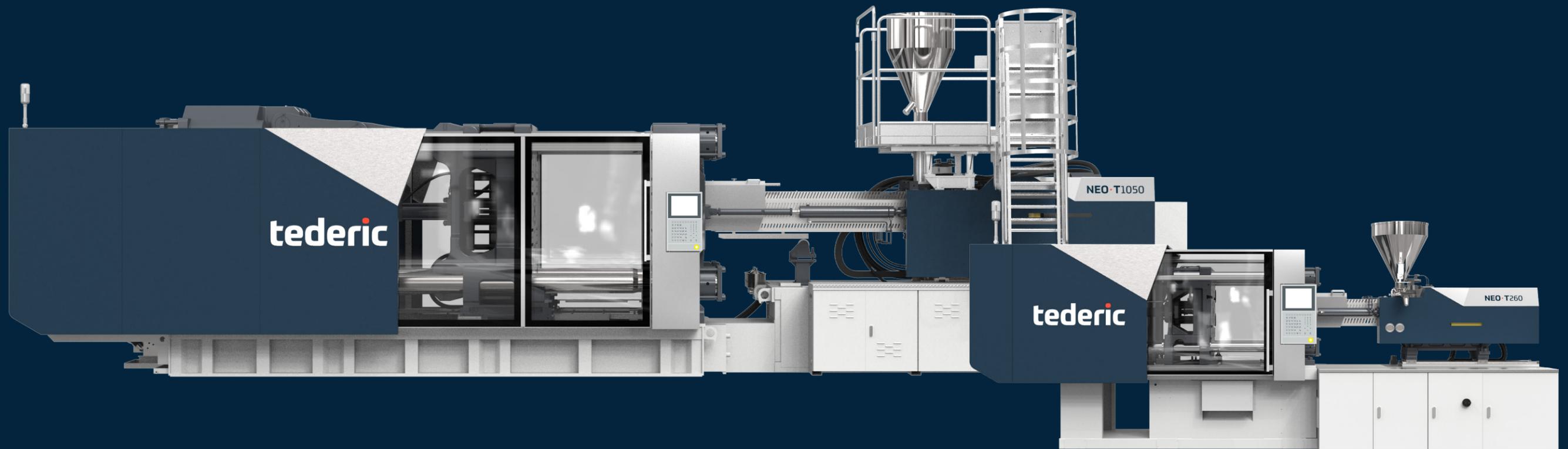
household  
appliance



logistics



smart  
green



# NEO·T

## 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  $\leq 400\text{t}$ ,  $500\text{t}$ ), 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

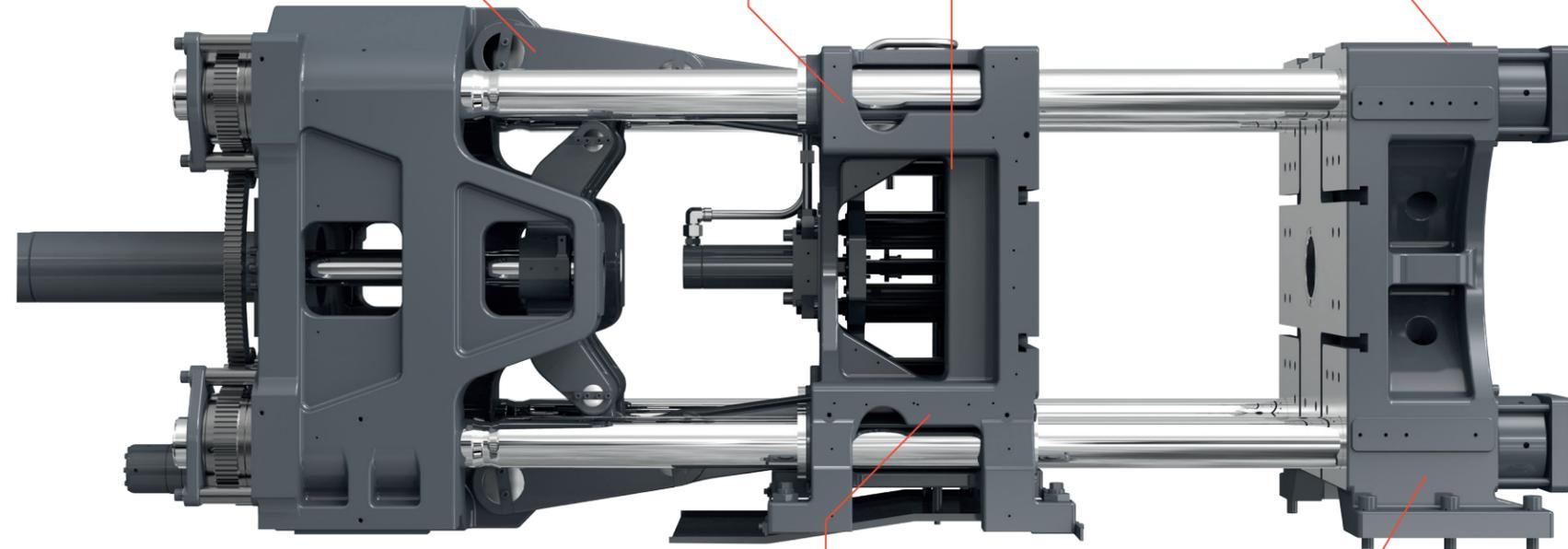
Thin oil & grease double pump automatic lubrication

#### 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.



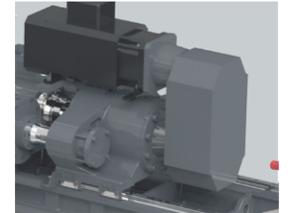
**Proportional back pressure control**

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.

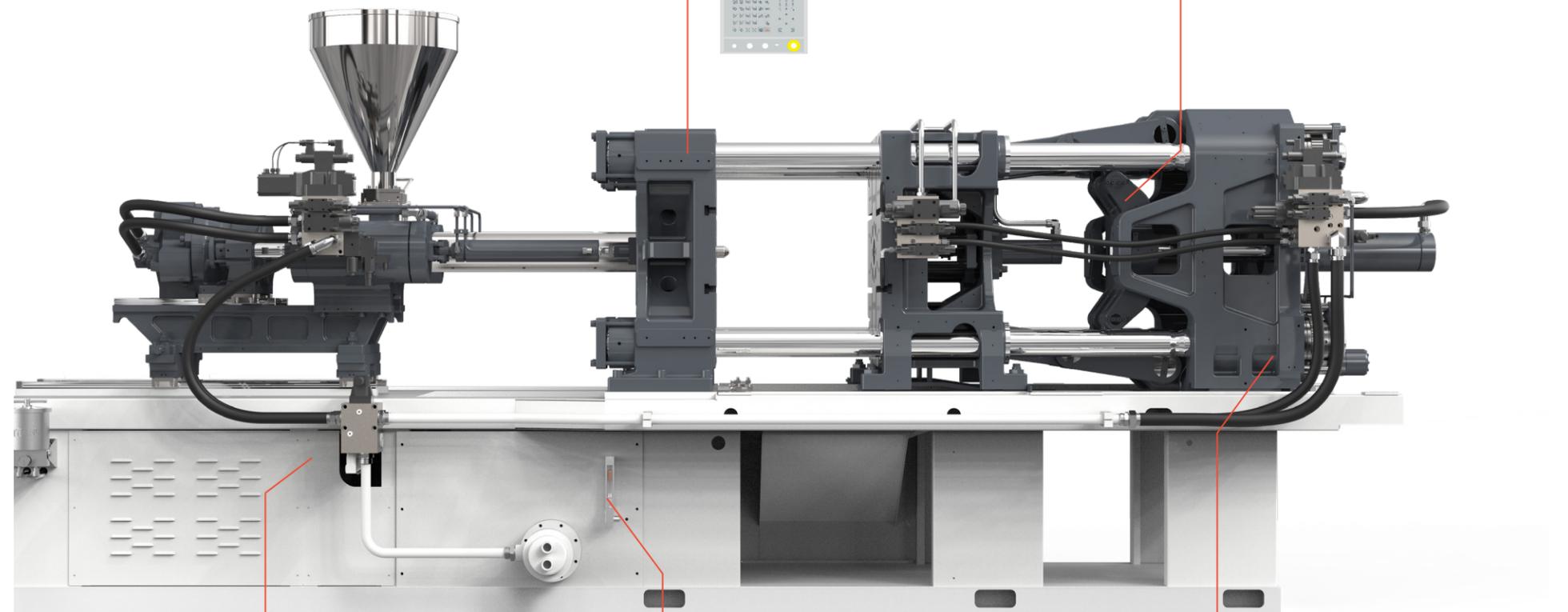
**Sliding hopper**  
Lower moving resistance.

# 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



**New generation of servo sytem**  
Faster response speed can not only continues running for 10min but also short the cycle time.

**Professional electrical layout and brand components**  
Waterproof and dustproof electrical cabinet with world famous components. Separate strong and weak currency by total EMC thinking and humanized design to guarantee the realiable work precise control and convenience maintaince

**Advanced hydraulic safety standard**  
Hydraulic safety with position detection.  
Low pressure mold protection, Hose protective chain, Pressure relief function.

**Specialized controller**  
Equipped with advanced controller especially for injection molding machine. With integrated operation panel, faster scan time, more IO points and available for cloud service to provide the remote assistance and maintance.



**Non-welded pipeline, cleaner hydraulic system**  
Non-welded pipeline makes the oil clean and prevent the oil leakage.  
By pass oil filter + self -suction filter + non-welded pipeline + intergrated cylinder assembly improve the oil cleanliness.

02

# NEO·HII discover more

Two-platen  
injection molding  
machine

# 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



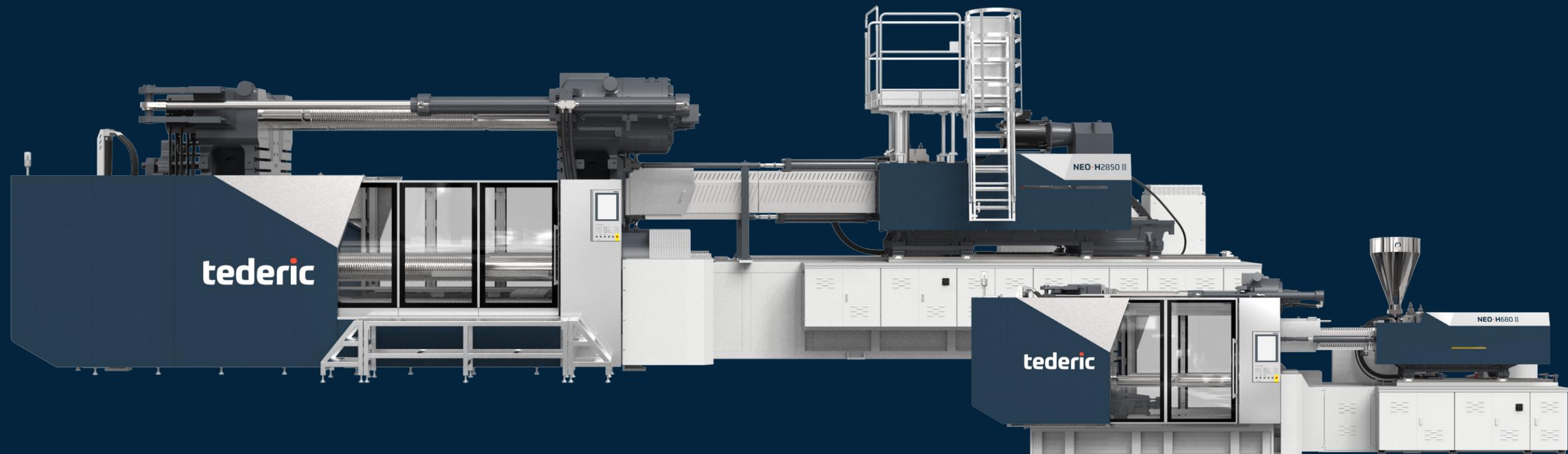
logistics



smart green



basic supply



# NEO·HII

## Clamping Unit

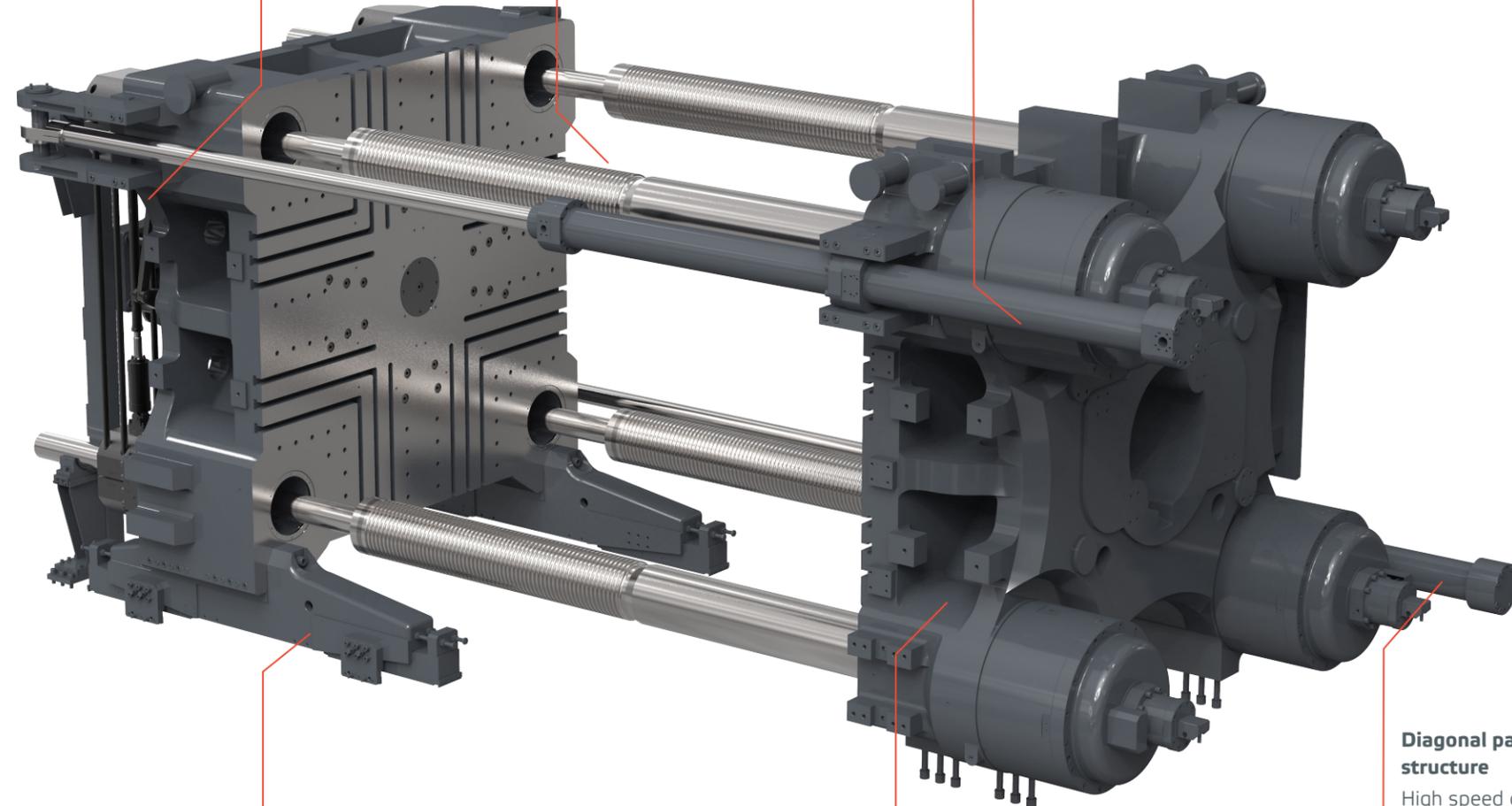
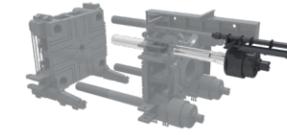
### Technical Advantages

- 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.

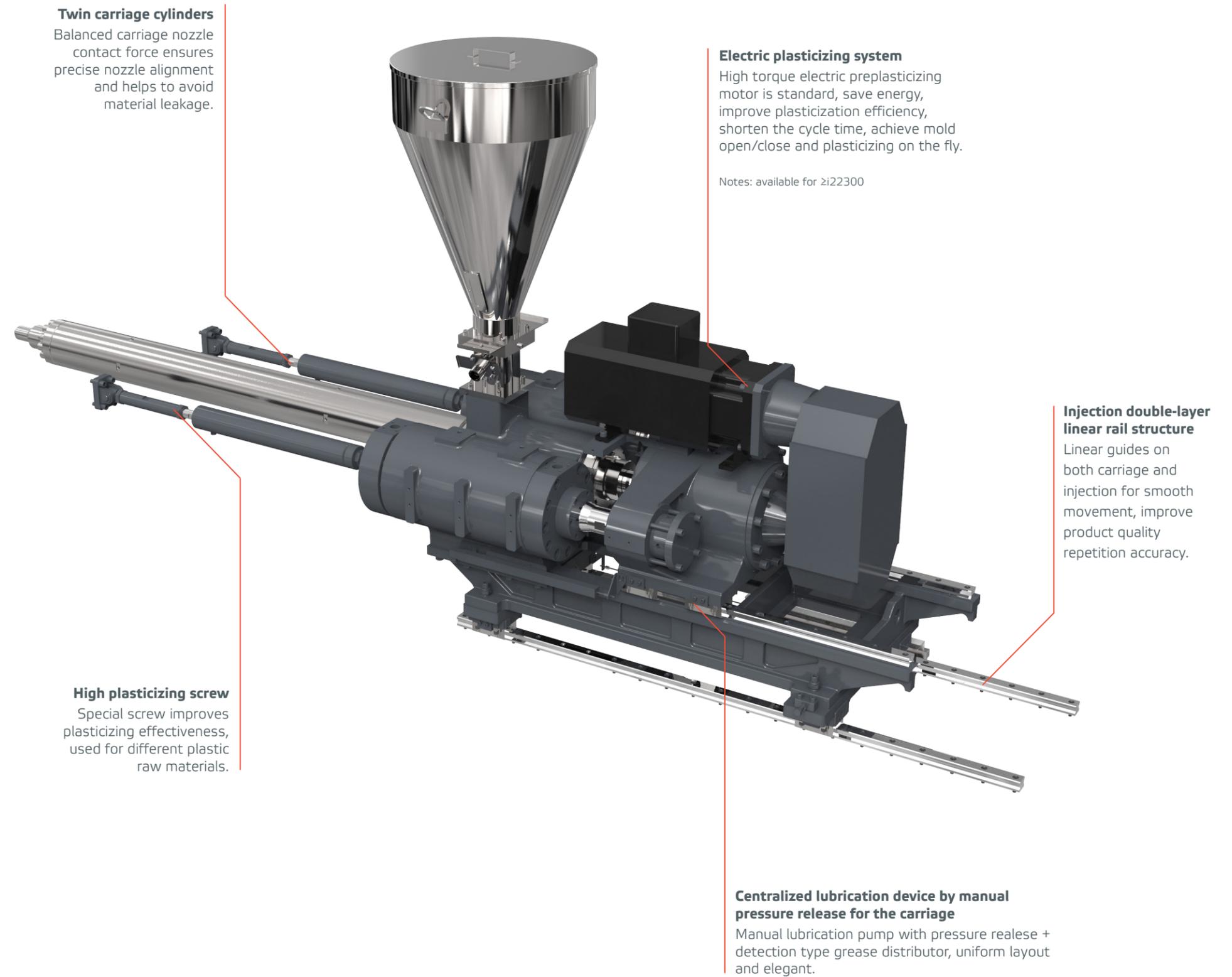
**Diagonal parallel cylinder structure**  
High speed cylinder with  
Diagonal parallel structure,  
guarantees stable and fast  
mold clamping & opening,  
shortens dry cycle time.

# NEO·HII

## Injection Unit

### Technical Advantages

- Injection repeat accuracy  $\leq 0.5\%$
- Modular design
- Temperature control of barrel  $\leq \pm 1^\circ\text{C}$



# 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

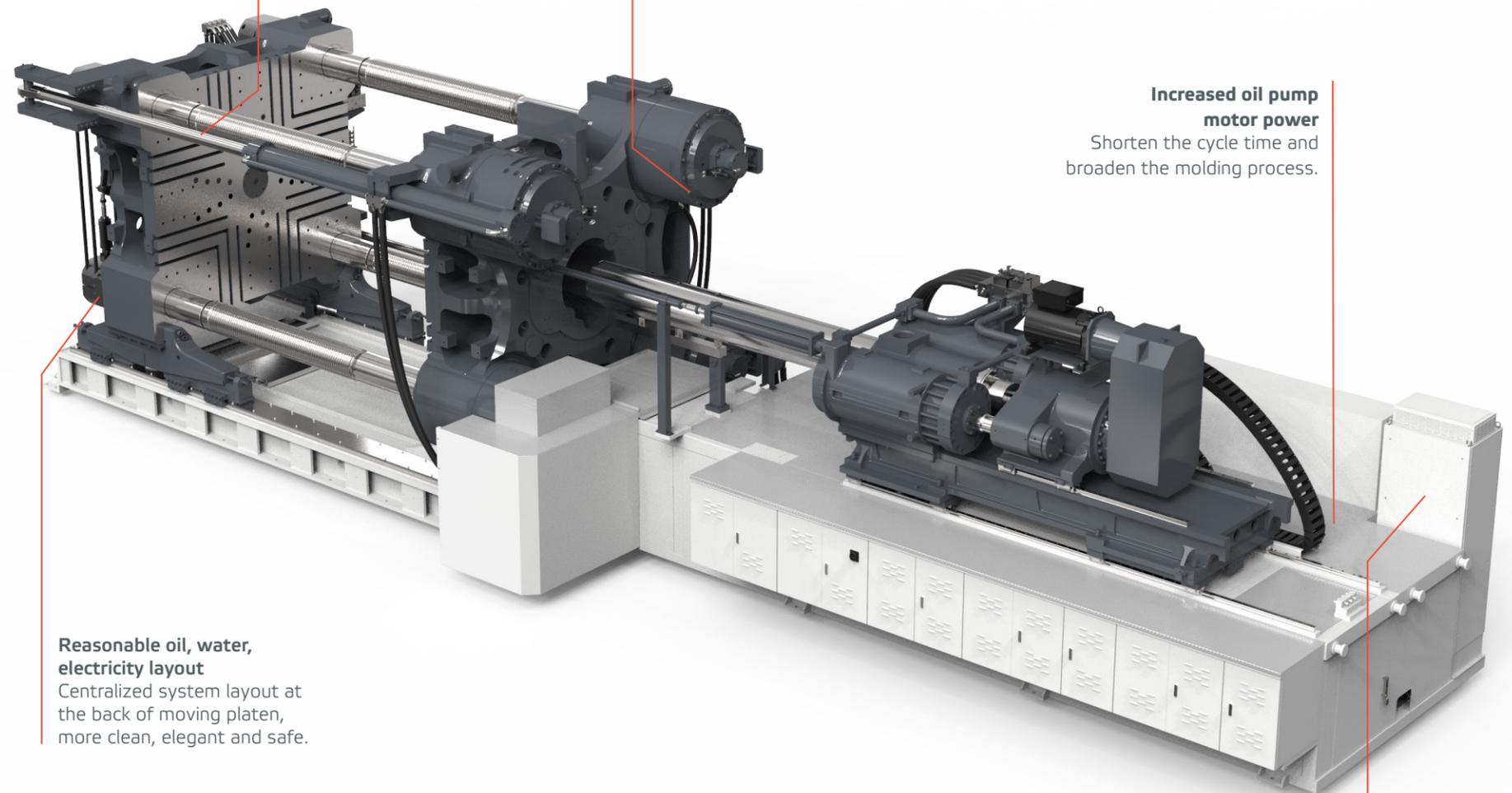
Shorten the cycle time and broaden the molding process.

#### 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.



03

# NEO·EII discover more

Electric  
injection molding  
machine

# 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



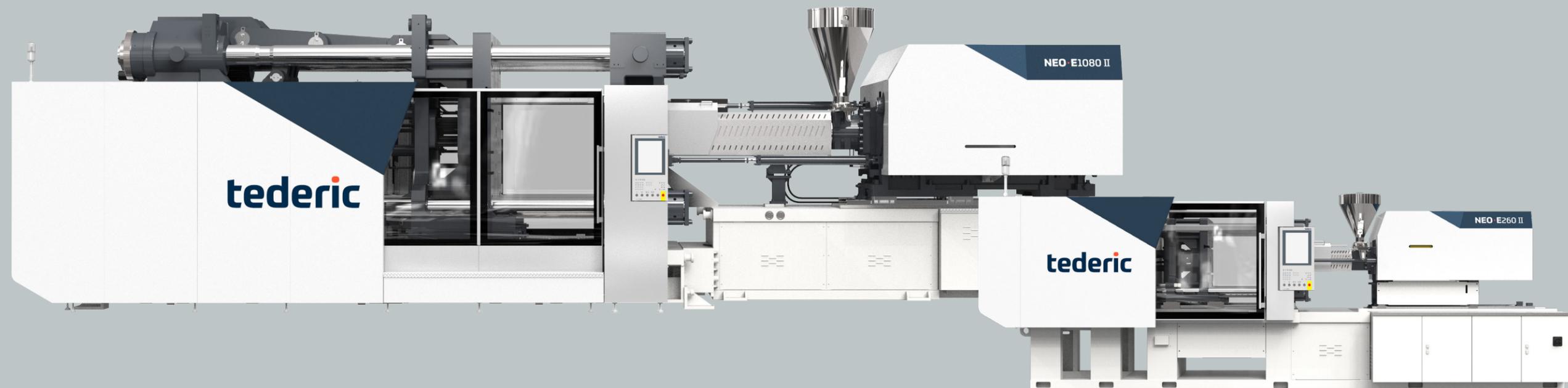
teletronics



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.

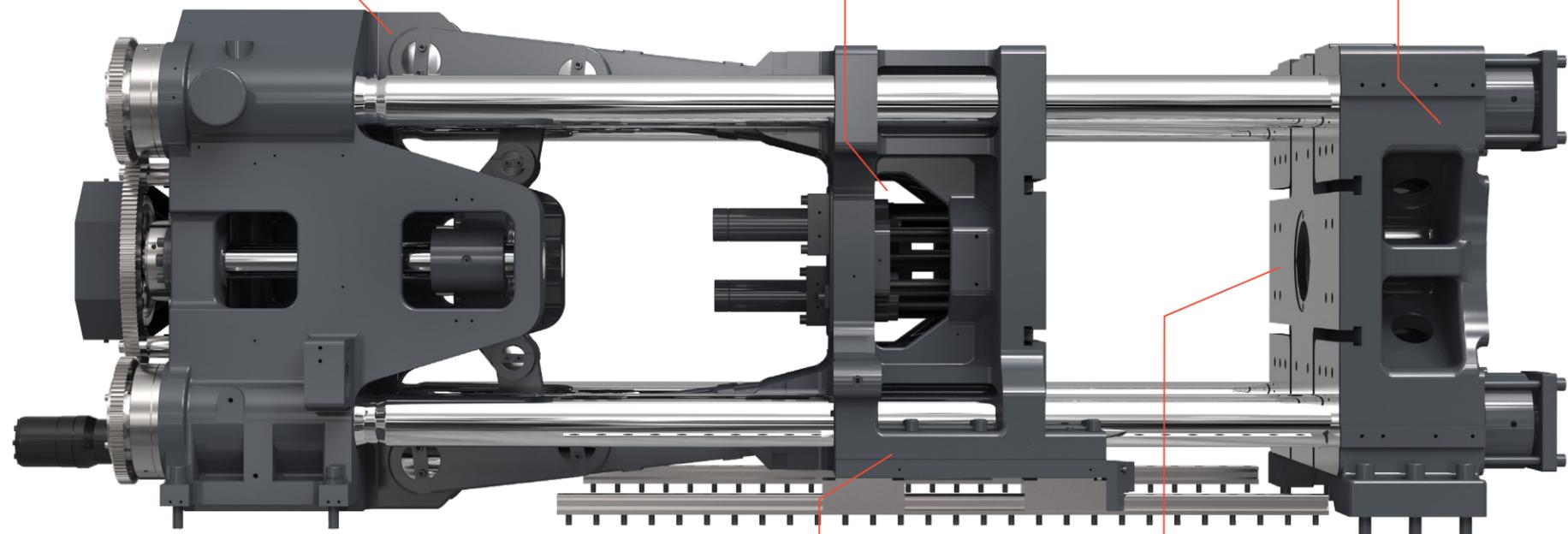
#### Alternative Hydraulic/ Electric Ejector

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

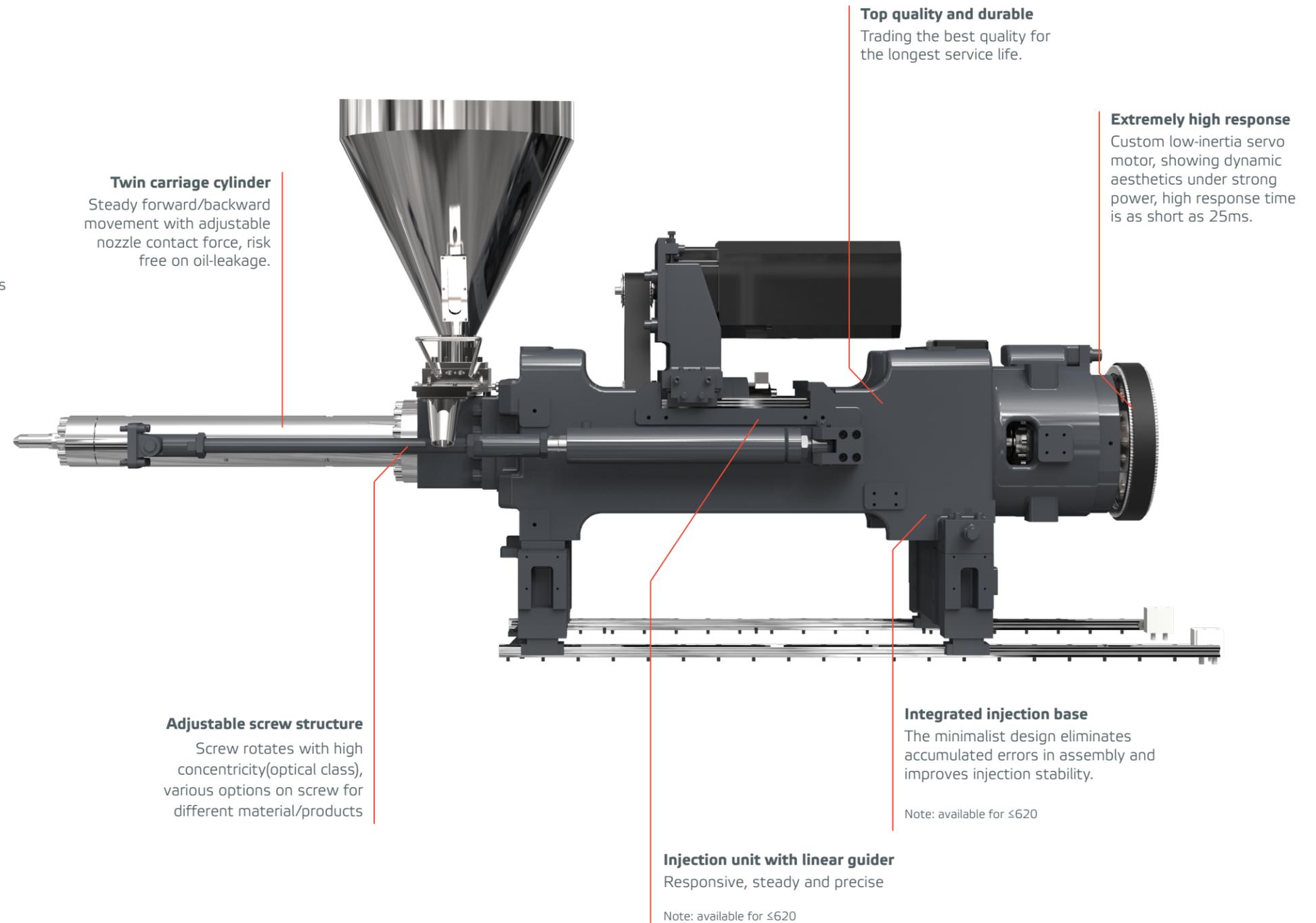
High-rigidity Platen with T-slot and in-built locating ring, easy and convenient for mold (un)install

# NEO·EII

## Injection Unit

### Technical Advantages

- Pressure control accuracy is up to  $\pm 1$  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



#### Full motor professional control

Upgraded control system with 15" touch screen(12" for 60-90) , better Human-Machine Interaction experience

tederic

NEO·E200 II

**Movable safety door**  
Convenient for machine maintenance

**Mold ejector pins return confirmation interface**  
It is absolutely safe to protect the mold.

**Modular electric control cabinet design**  
Energy Recovery System, Euromap9+ power saving standard  
Electric cabinet EMC design (non-interference. Stable and easy maintenance)

04

# NEO·M discover more

Multi-component  
injection molding machine

# 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 – 3520t**

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

Clamping force: **750t – 3520t**

**Stable Precise Versatile Flexible**

### Main application areas



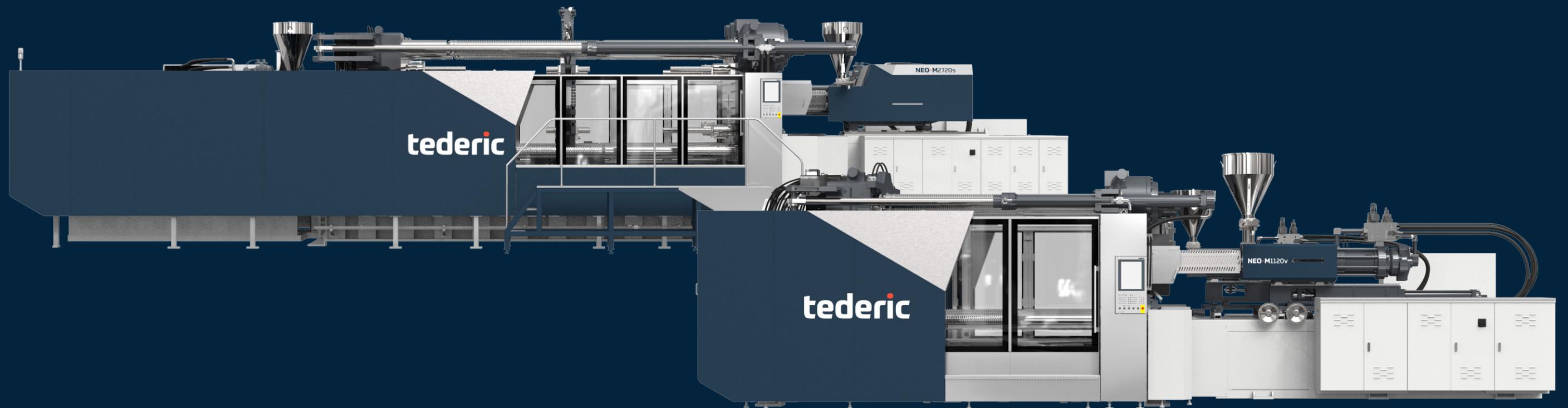
automotive parts



household appliance



basic supply

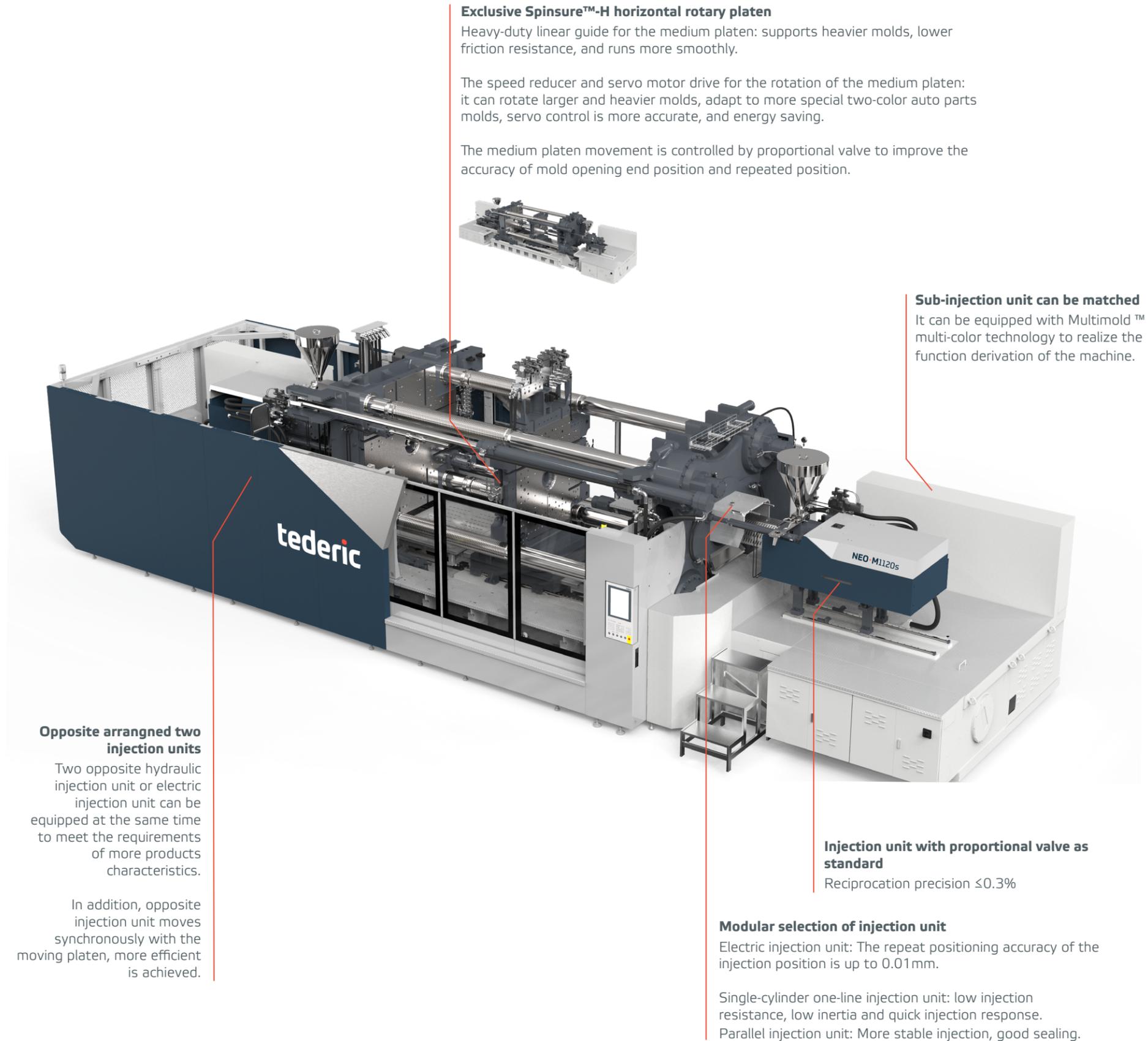


# NEO·Ms

## 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  $0.01^\circ$



#### 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.

#### 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.

#### 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.

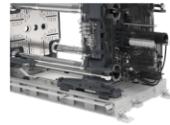
# NEO·Mv

## 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



**Mid platen rotation by servo motor**  
High precision and multifunctionality

**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.



**Parallel injection units with adjustable spacing**

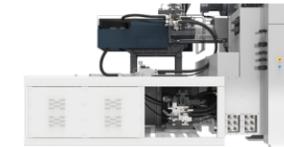
The two sets injection units adopt single-cylinder, one-line injection structure, features precise and efficient running.

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.

