

# discover NEO·T

Toggle System  
Injection Molding  
Machine



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**tederic**  
SMART INJECTION

Design  
drives  
change.



# About Us



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

Tederic is a smart injection molding machine manufacturer with world-leading technology (a world-renowned injection molding machine solution provider). As a company listed on the Shanghai stock exchange of China (603289-SH), we have rich industry experience, good performance and professional knowledge, with the mission of creating real value for customers, the goal of pursuing excellence, adhering to a flexible approach and the spirit of continuous innovation, we will create high-quality, durable, efficient and value-added products for you.

from casting casting, fuselage and sheet metal welding, precision machining to complete machine assembly, all through strict quality system control, and can achieve fast delivery for customers.

At present, Tederic has 122 technical patents and more than 70 industry experts. In terms of talent development and reserve, Tederic has carried out comprehensive and in-depth industry-university-research cooperation with 15 universities, including Zhejiang University, Beijing University of Chemical Technology, Zhejiang University of Technology, etc. Moreover, Tederic has donated \$150 million to cultivate the elite of the plastic machinery industry and promote the sustainable development of the industry.

Tederic has the core technology of injection molding machine and the manufacturing capacity of main parts,

## Basic Facts & Figures

 **1000**  
Staff worldwide

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

 **130+**  
Exporting countries



**Tederic Machinery Co., Ltd.**  
Covering 50,000 square meters

Founded in 2008



**Zhejiang Tederic Equipment Co., Ltd.**  
Covering 164,674.5 square meters

Coming soon



**Zhejiang Tederic Heavy Machinery Co., Ltd.**  
Covering 60,000 square meters

Founded in 2010



**Smart Factory of Tederic New Headquarters**  
Covering 33,334 square meters

Coming soon

# Timeline

## 2003

Founded as a family owned company, based in Hangzhou city, busienss 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

## 2018

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

## 2020

"4.0 concept smart headquarter" has officially started.

Covers an area of 33,333+ m<sup>2</sup>

## 2022

Increase production capacity layout, "Integrated Molding super factory" project started, with an area of 178,000 m<sup>2</sup>

Entered a new stage of high-quality, sustainable and globalized development

## 2008

Headquarters was established in Xiasha, covering an area of 50,000+ m<sup>2</sup>

## 2017

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

## 2019

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

## 2021

Annual production capacity of 10,000 units

The third generation product line "NEO" was released

Set up a German R&D center

# We are a global partner

So far, Tederic machines have been in operation in more than 130 countries and regions.

At present, Tederic has 4 overseas subsidiaries and 36 sales and services networks in the world.

## AMEA

Argentina	Venado Tuerto
America	Florida
Brazil	Sao Paulo
Mexico	Guadalajara
Peru	Lima
Canada	Hamilton

**Mexico**

**Brazil**

**Germany R&D Center**

**Portugal**

## EMEA

French	Paris
Germany	Munich
Italy	Turin
Britain	Gwent
Belarus	Minsk
Russia	Moscow
Portugal	Batalha
Spain	Barcelona
Netherlands	Gelderland
Poland	Koronowo
The Czech Republic	Trinec
Hungary	Budapest

## APAC

Malaysia	Kuala Lumpur	Syria
Vietnam	Ho chi-minh city	Turkey
Thailand	Bangkok	Bangladesh
Korea	Hwaseong	Indonesia
Iran	Tehran	New Zealand
Japan	Tokyo	
India	Coimbatore	

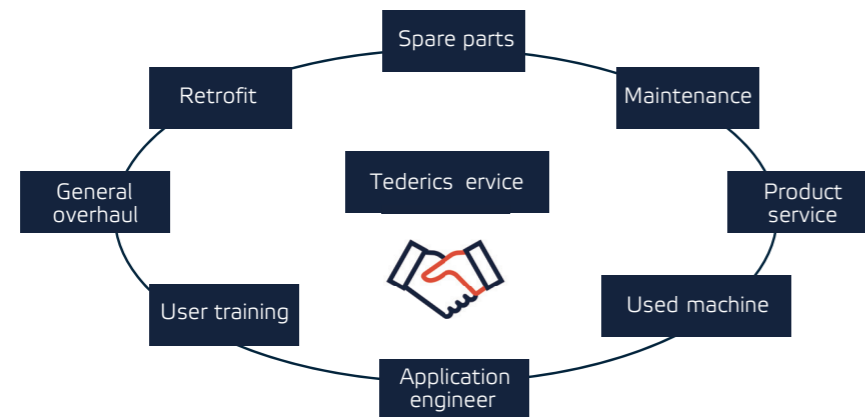
Aleppo
Istanbul
Dhaka
Jakarta
Auckland

**Korea**  
**China**

● Headquarter      ● Sales&Service networks

# Support and service

## 360° customer care



- Perfect service management system

So far, Tederic sales engineers have provided initial installation or subsequent commissioning services to customers in more than 130 countries and regions around the world.

- Rich experience in sales and service industry

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

- Global service rapid response

At present, Tederic has 65 sales and services networks in the world.



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

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

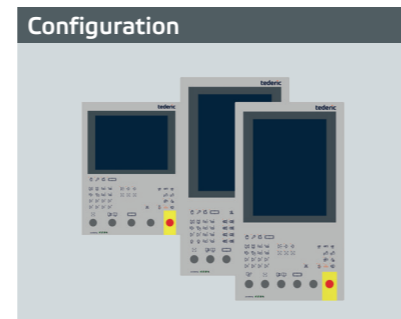
# NEO

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 21 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



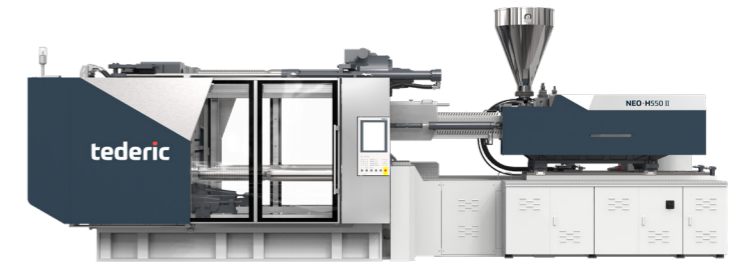
## Supported Languages



## NEO · T



## NEO · HII



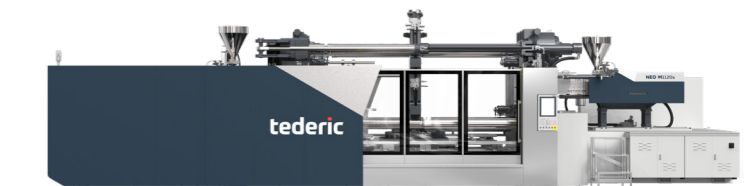
## NEO · EII



## 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 – 1050t

Stable, Precise, Energy-saving, Flexible

## Main application sectors



Packaging



Construction



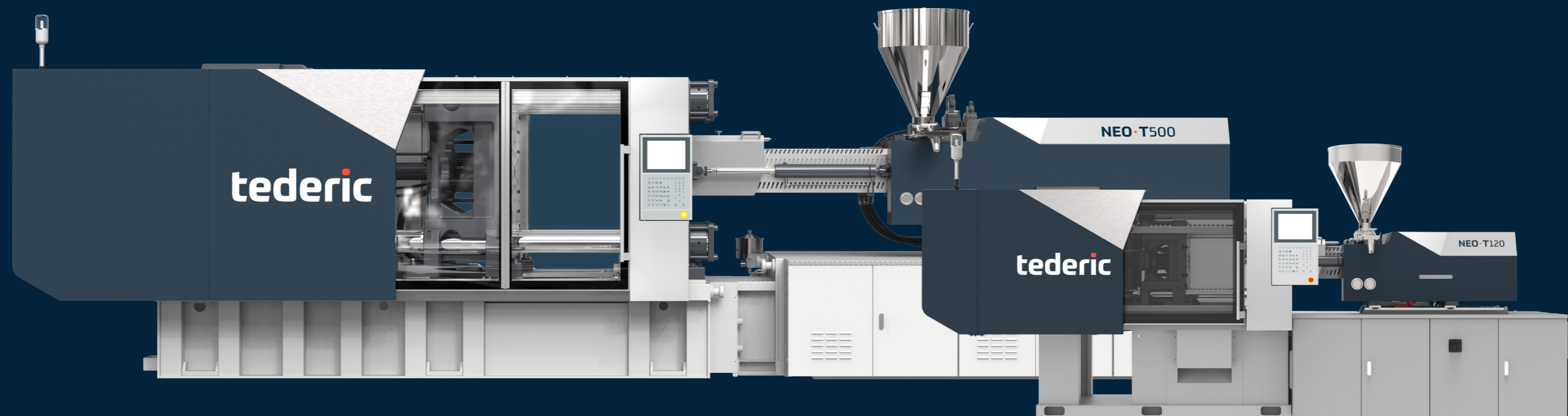
Home Appliances



Logistics



Environmental Protection





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

#### Lubrication of toggle and guide sleeve

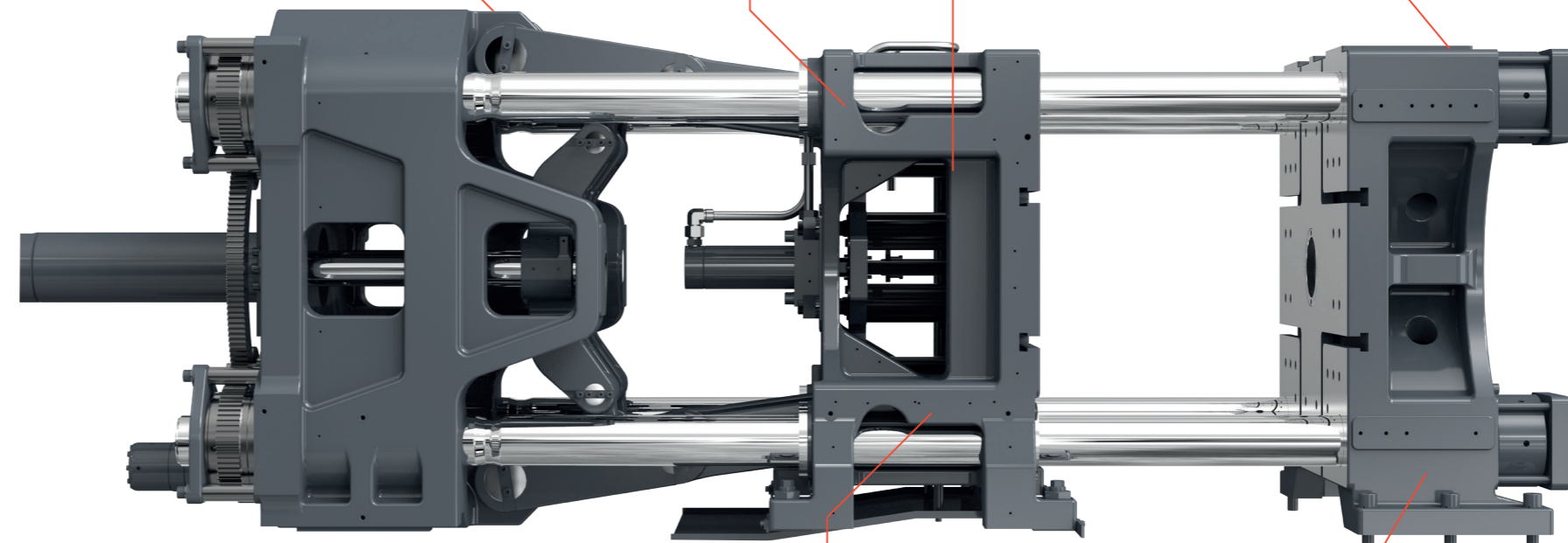
Automatic oil lubrication pump+detector distributor, nice looking and easy to use.

#### 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

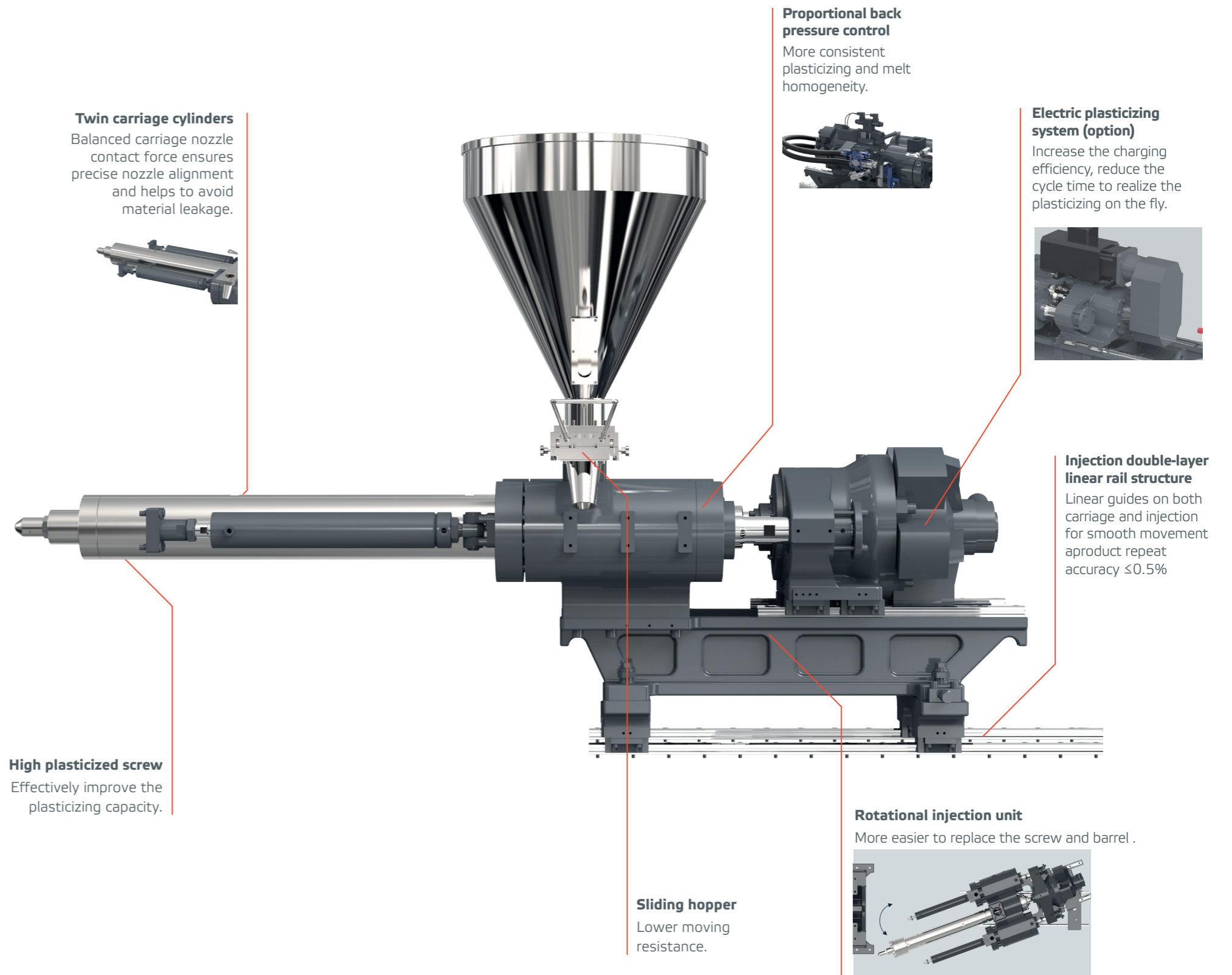
Reasonable layout ensures low deformation, even press distribution, better tie bar positioning and fully improved performance.

# NEO-T

## Injection Unit

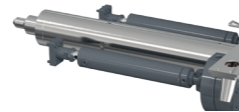
### Technical Advantages

- 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

Balanced carriage nozzle contact force ensures precise nozzle alignment and helps to avoid material leakage.



#### High plasticized screw

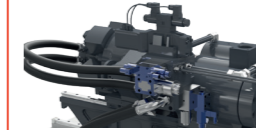
Effectively improve the plasticizing capacity.

#### Sliding hopper

Lower moving resistance.

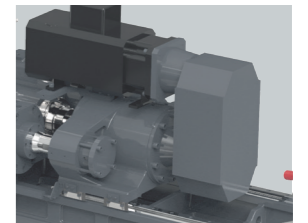
#### Proportional back pressure control

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.

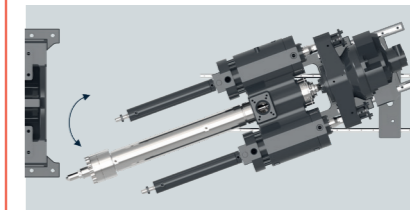


#### Injection double-layer linear rail structure

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

#### Rotational injection unit

More easier to replace the screw and barrel.

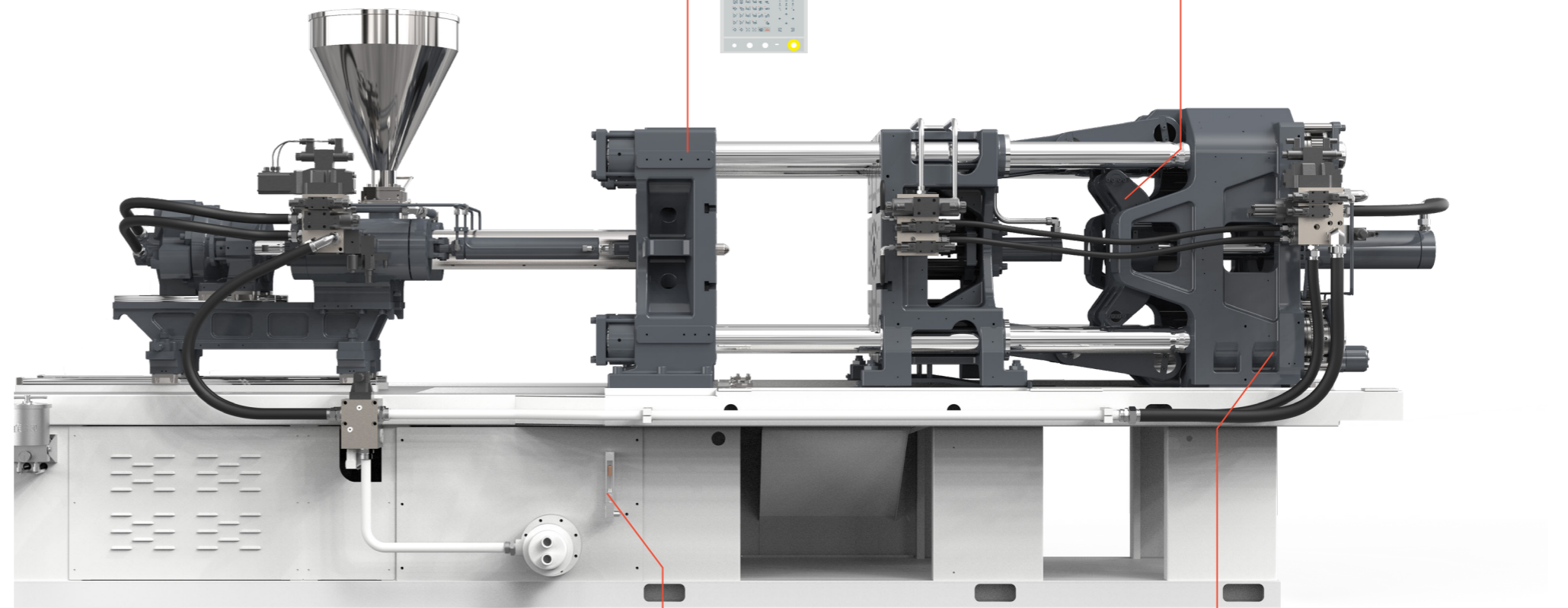


# NEO-T

## Electrical & Hydraulic

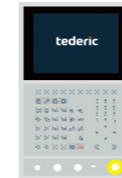
### Technical Advantages

- A new generation of servo power system saves 30% to 80% energy compared with traditional hydraulic systems
- Ultra-high response speed, the system pressure is 17.5 bar
- 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



#### Specialized controller

Equipped with advanced controller especially for injection molding machine. With one-button operation panel, faster scan time, more IO points and available for cloud service to provide the remote assistance and maintenance.



#### 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 + integrated cylinder assembly improve the oil cleanliness.

#### New generation of servo system

Faster response speed can not only continue 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 current by total EMC thinking and humanized design to guarantee the reliable work precise control and convenience maintenance.

#### Advanced hydraulic safety standard

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

