



**D<sup>II</sup>-M** PRODUCT INTRODUCTION

**TEDERIC**



WECHAT



WEB

TEDERIC MACHINERY MOLDING DREAMS

# D<sup>II</sup>-M<sup>•</sup>series

Single-cylinder IMM

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TE2016.08-D<sup>II</sup>-M-01-HZ



Product platform for Toggle system Machine

D:DREAM



D(T)

D(T)/i

D(T)/M

D(T)/J<sub>I</sub>

D(T)/J<sub>II</sub>

DH

DH/i

DH/J<sub>I</sub>

DH/J<sub>II</sub>

DE

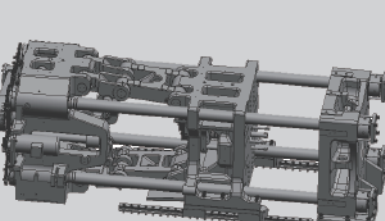
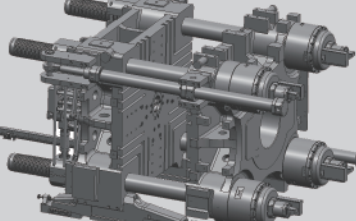
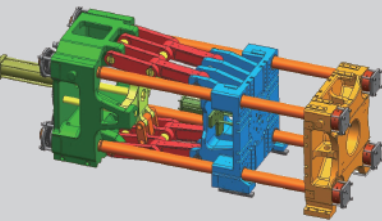
DE/E

Prime code of clamping unit

T: Hydraulic toggle type three-platen clamping structure

H: Hydraulic locking two-platen clamping structure

E: Electric toggle type three-platen clamping structure



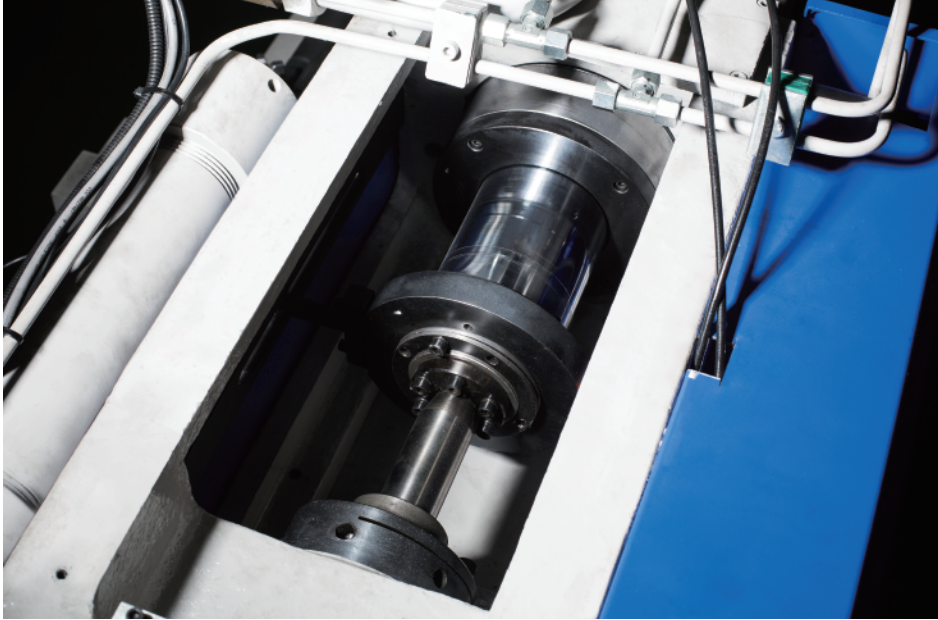
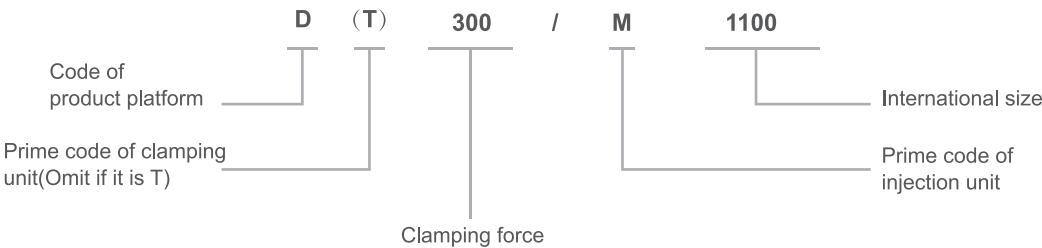
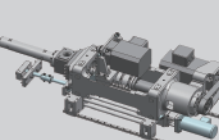
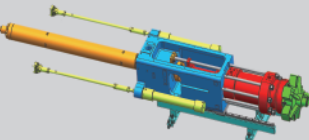
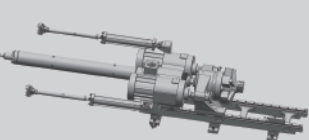
Prime code of injection unit

i: Two-cylinder injection reciprocating screw structure

M: Single-cylinder injection reciprocating screw structure

J: Extruded injection structure

E: Electric injection structure



D<sup>II</sup>-M Single-cylinder IMM

- Injection unit with single injection cylinder and reciprocating screw
- Shared Dream DT series clamping unit with superior performance
- High response servo motor system
- Linear guide with low resistance and high precision control
- Double carriage cylinders
- Flexible modularized design





More details improvement, Higher rigidity

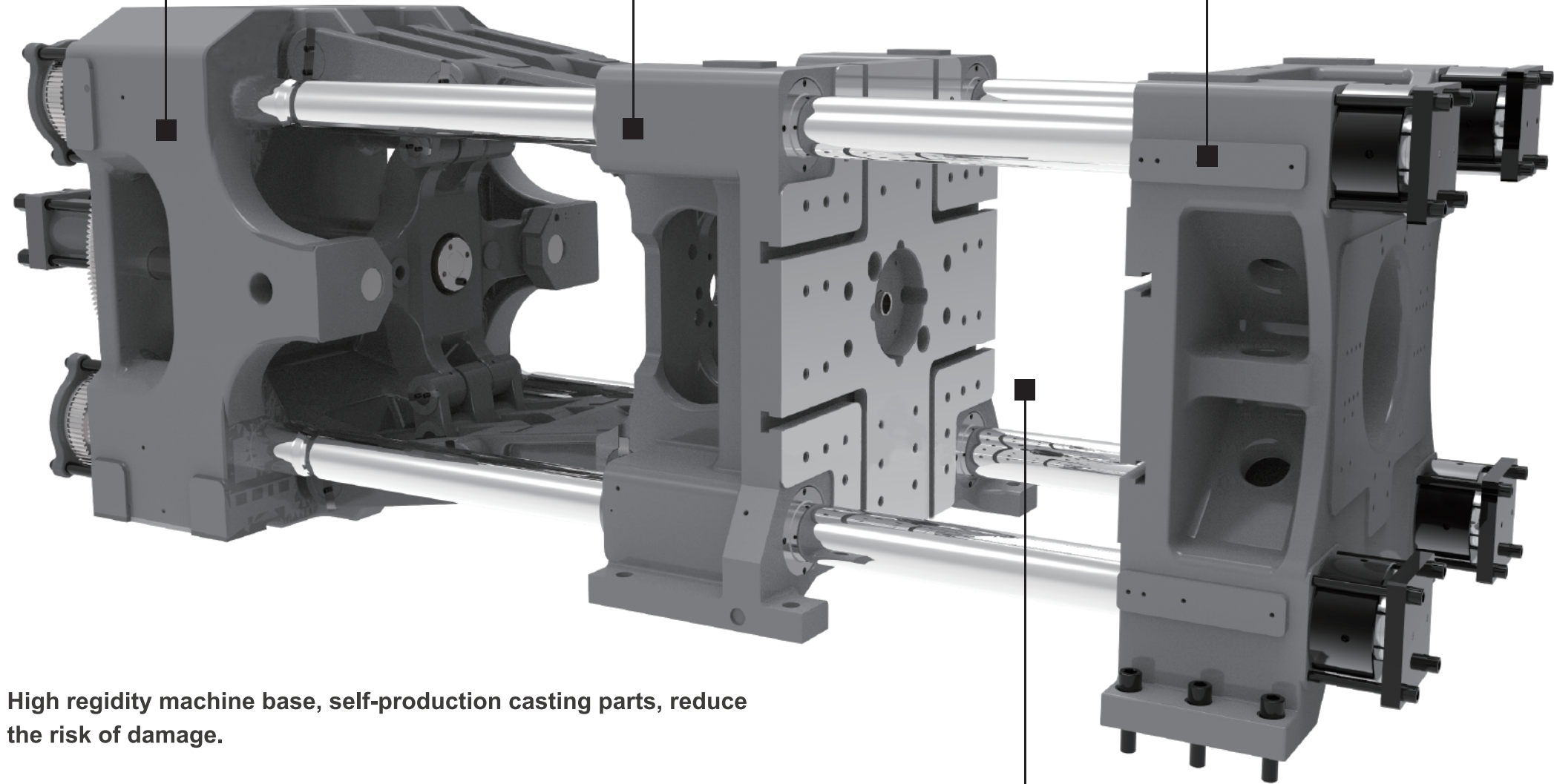
More rounded transition, eliminate inner stress;  
More reinforcing ribs in the crane.

Strengthened moving platen, extended supporting holes space

Extended supporting holes space in moving platen, ensure better stable running.

Box type fixed platen

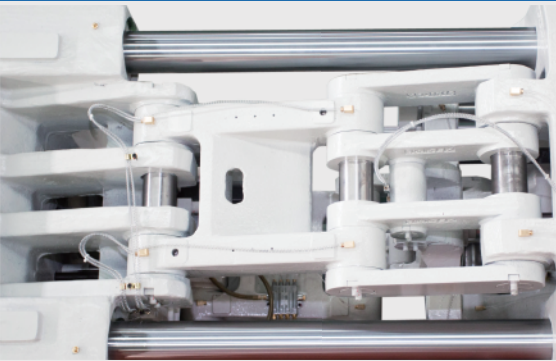
Box type structure, small deformation;  
Easy tie bar location, integrally strengthen;  
Reasonable layout for internal reinforcing ribs.



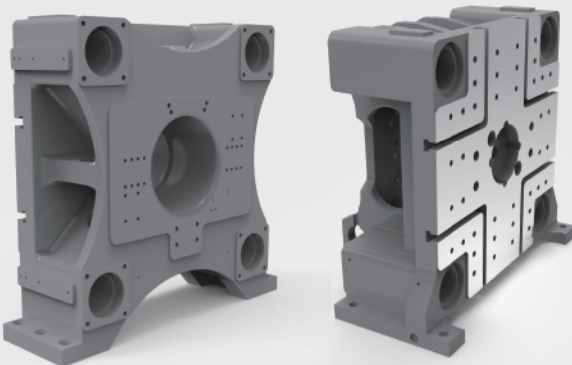
High rigidity machine base, self-production casting parts, reduce the risk of damage.

Super big tie bar space and clamping stroke

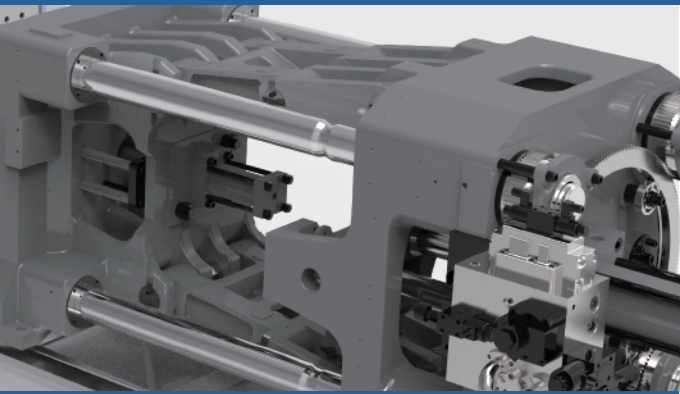
Strong toggle structure, auto lubricating shaft sleeve and high strength alloy steel pin



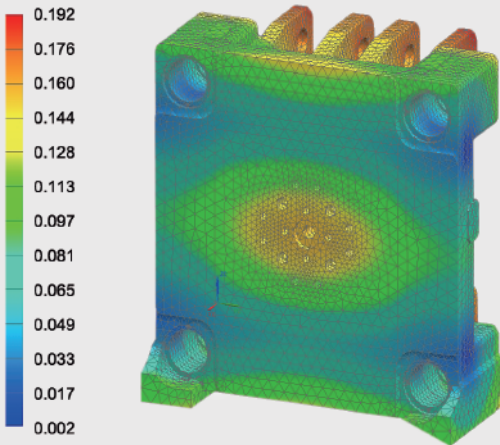
Self-production casting parts and machining with precise CNC.



Super big eject stroke



Finite Element Analysis



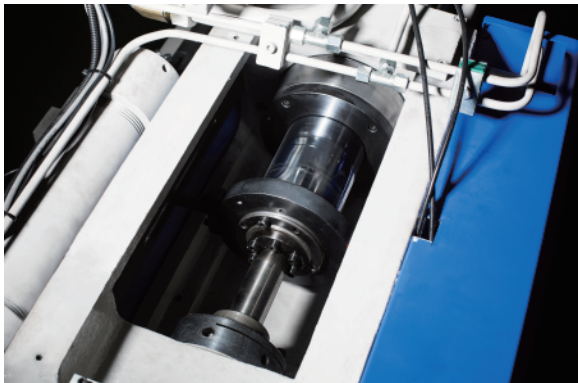
# M

Injection unit with single injection cylinder and reciprocating screw

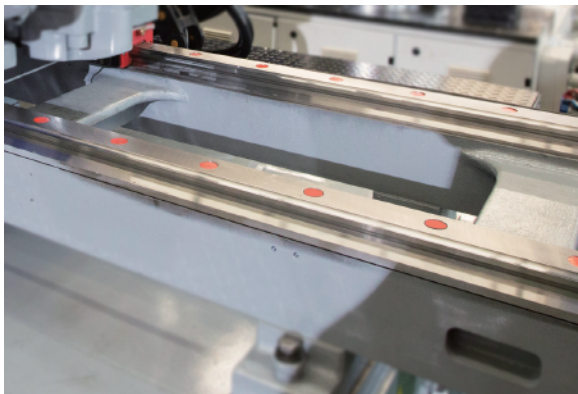


Single cylinder injection with linear guide, high efficiency of transmission, good consistency;  
Compact-sized structure with lower inertia, and make fast and precise injection ture.

**Single-cylinder linear injection unit with small inertia**  
12 years experience in manufacturing single cylinder for injection.



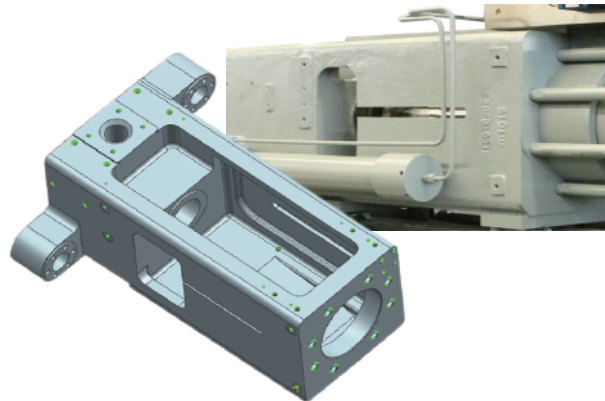
**High Response, low abrasion**  
Linear guide rail can achieve zero clearance movement and improve the injection guide system mechanical rigidity, can achieve high positioning accuracy and repeatability of positioning precision, reduce the unconventional friction of screw and barrel wall to extend the screw and barrel service life.



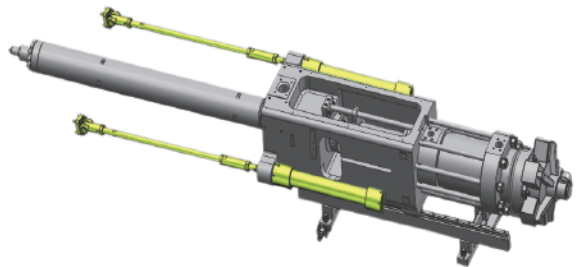
**Professional heating for plasticization**  
High power and density heater, insuring plasticizing efficiency.



**Closed design injection unit**  
The injection unit adopt closed design to improve the rigidity of injection unit.



**Double carriage cylinders**  
Cylinder driving force transferring to screw in line, making for small inertia, fast acceleration and high rigidity.



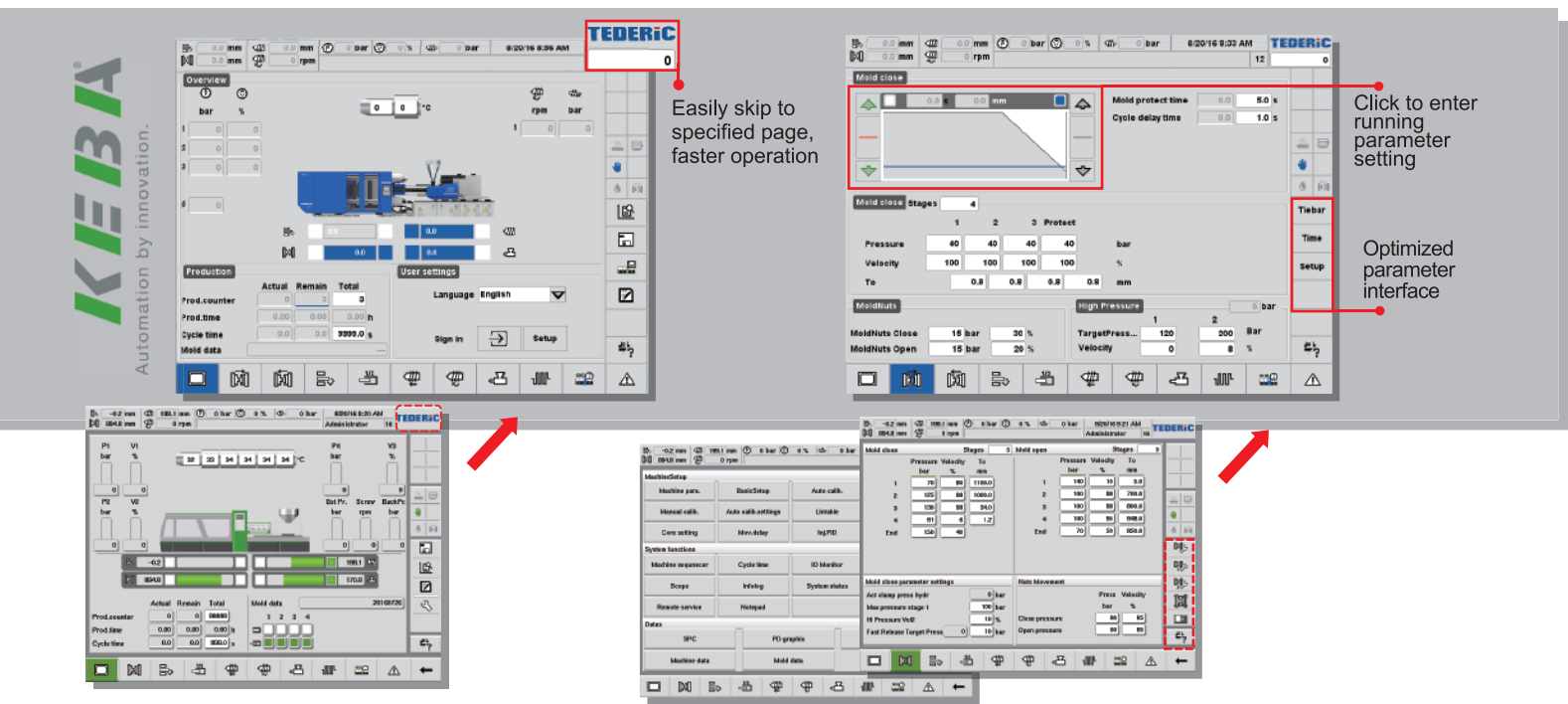
**Specialized high plasticizing unit**  
High plasticizing screw with sophisticated sealing design, reducing fraction defective to the lowest.





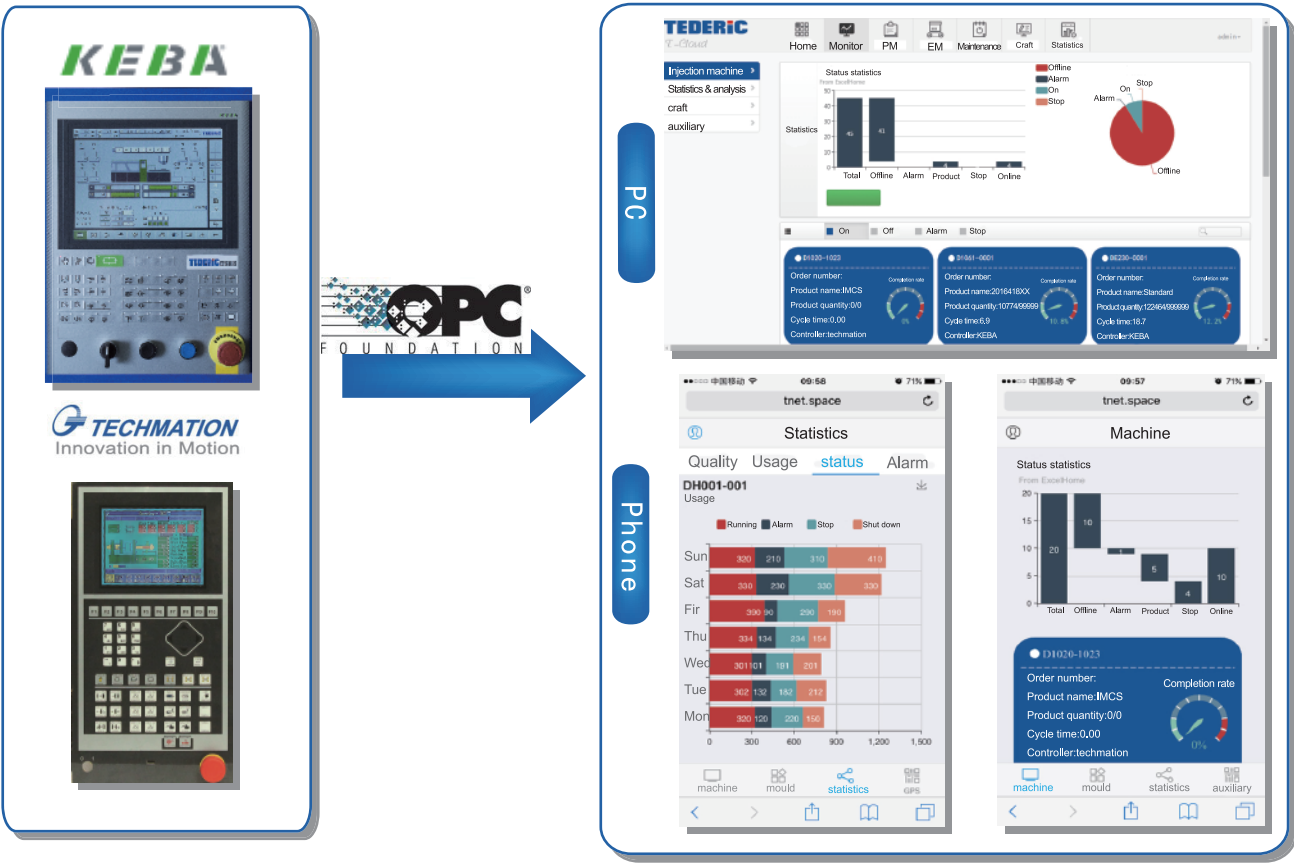
Human-machine interface

- ▶ Customized
- ▶ Intensified user experience
- ▶ Simplified Human-machine interface



Industrial internet of things and Industry 4.0

OPC connector, to realize remote multiple clients access machine parameter.



Turnkey solution

Share data between controller and auxiliary machine, provide turnkey solution.



Electric

Customized function introduction

Detection for Energy consumption: including Phase voltage, line voltage, phase current, the total power and total energy consumption.



Compressed injection-function for twice clamping: suitable for optical lenses.



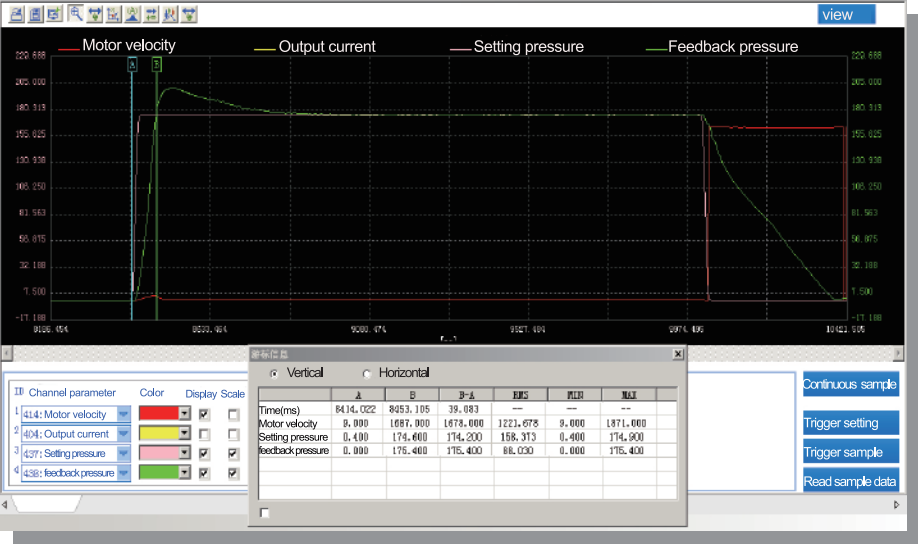
Special core pulling: meet the special mould requirements.



Use world famous IMM electrical parts

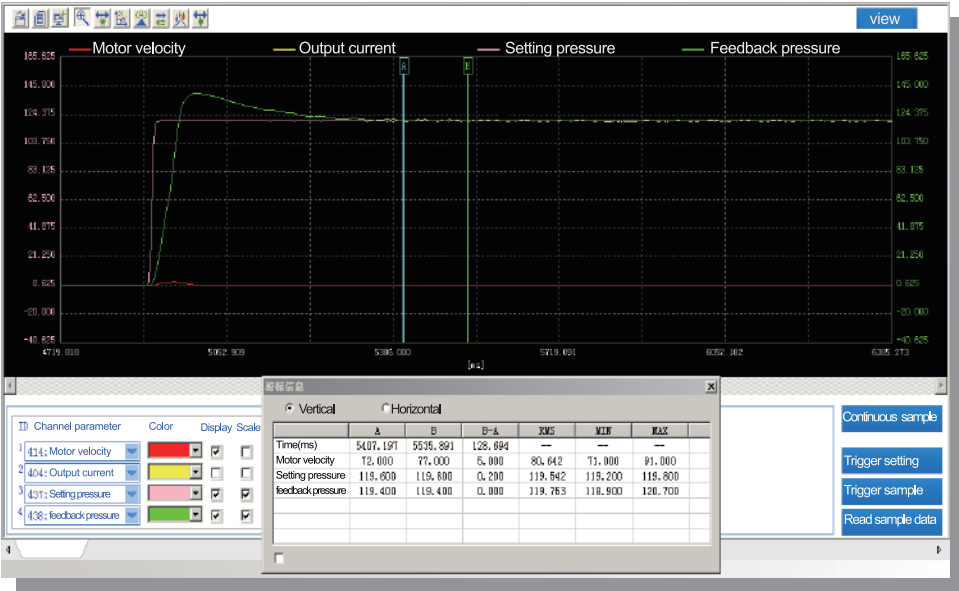


Hydraulic



High rigidity: system pressure 17.5MPa.  
High response: 30ms to the highest pressure.

Low rotation speed for pressure maintaining, high efficiency for hydraulic servo system, and more energy-saving.



High rigidity, high response, high efficiency of the hydraulic servo system, brings a higher rate of finished products and the repetitive precision of the process.

