



DT
PRODUCT INTRODUCTION

TEDERIC



WECHAT



WEB

TEDERIC MACHINERY MOLDING DREAMS

DT

Toggle system Machine

series



www.tederic-cn.com

TEDERIC

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Accumulation from the innovation and classic technology

Product platform for Toggle system Machine

D:DREAM



D(T)

D(T)/i

D(T)/M

D(T)/J_I

D(T)/J_{II}

DH

DH/i

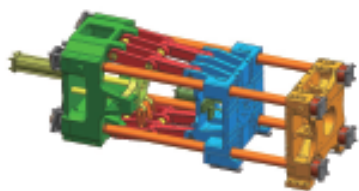
DH/J_I

DH/J_{II}

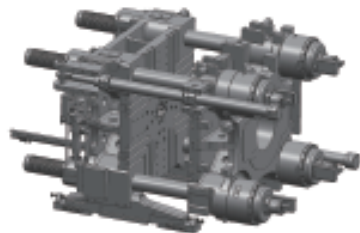
DE

DE/E

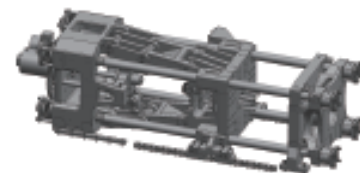
Prime code of clamping unit



T: Hydraulic toggle type three-platen clamping structure

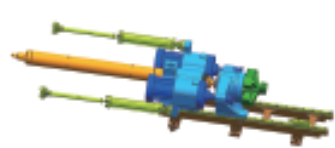


H: Hydraulic locking two-platen clamping structure



E: Electric toggle type three-platen clamping structure

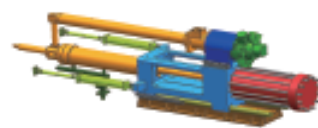
Prime code of injection unit



i: Two-cylinder injection reciprocating screw structure



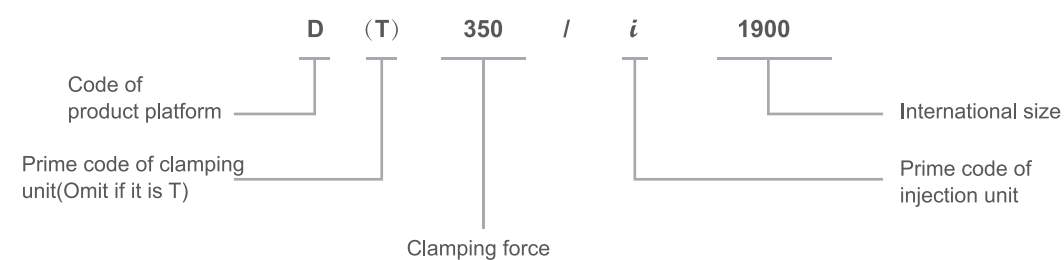
M: Single-cylinder injection reciprocating screw structure



J: Extruded injection structure



E: Electric injection structure

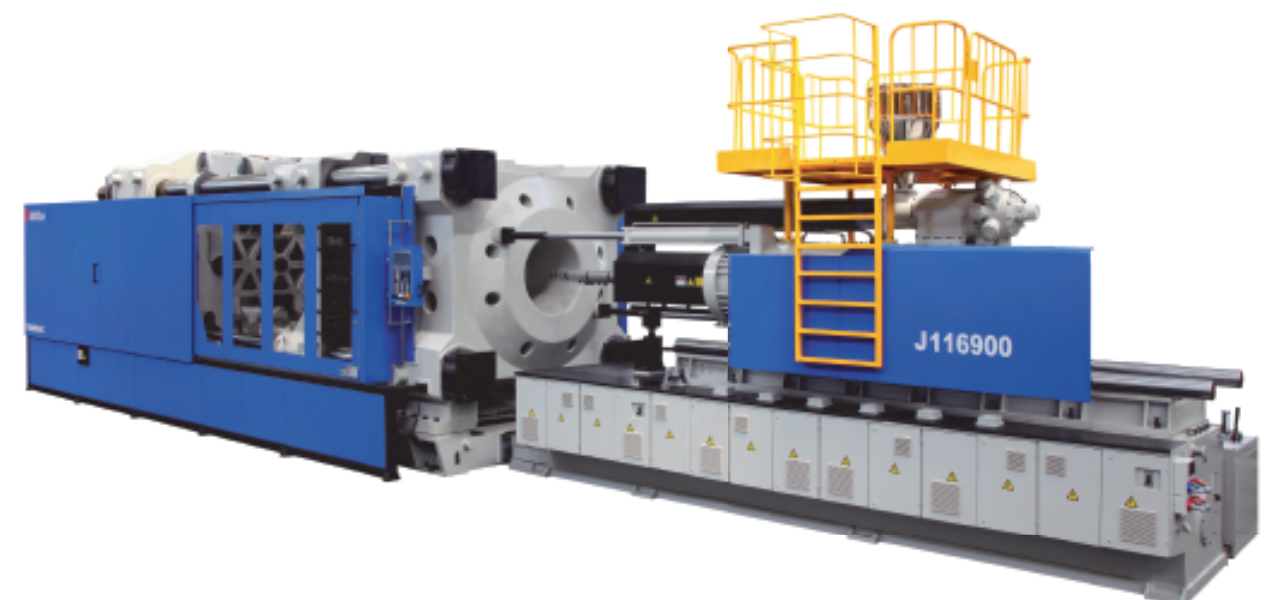


Dream series Toggle system injection molding machine based on TEDERIC innovative dream platform

10 years of experience in researching and developing injection molding machines accumulated by TEDERIC people

Injection weight max 750000cm³

Clamping force from 60 - 4000 ton



© Super big tie bar space and clamping stroke

© Faster heating and precise temperature control

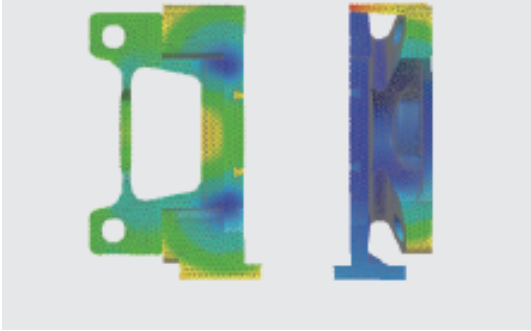
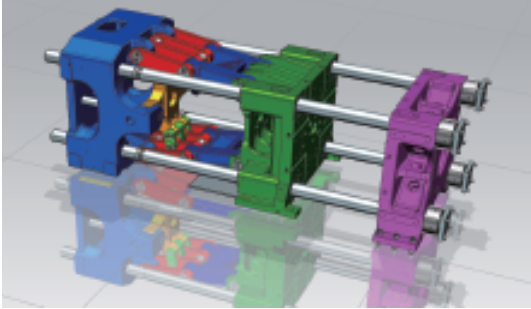
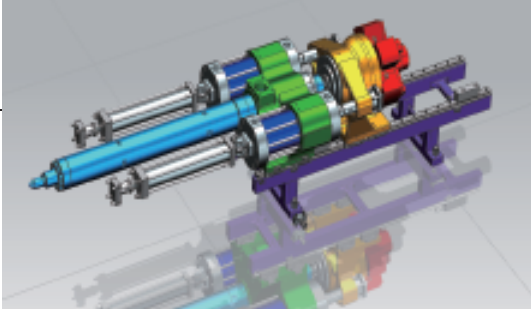
© Super big eject stroke

© Modularized design, offer customers with more options

© Professional plasticizing units for different engineering plastics

© Clamping unit motion analysis

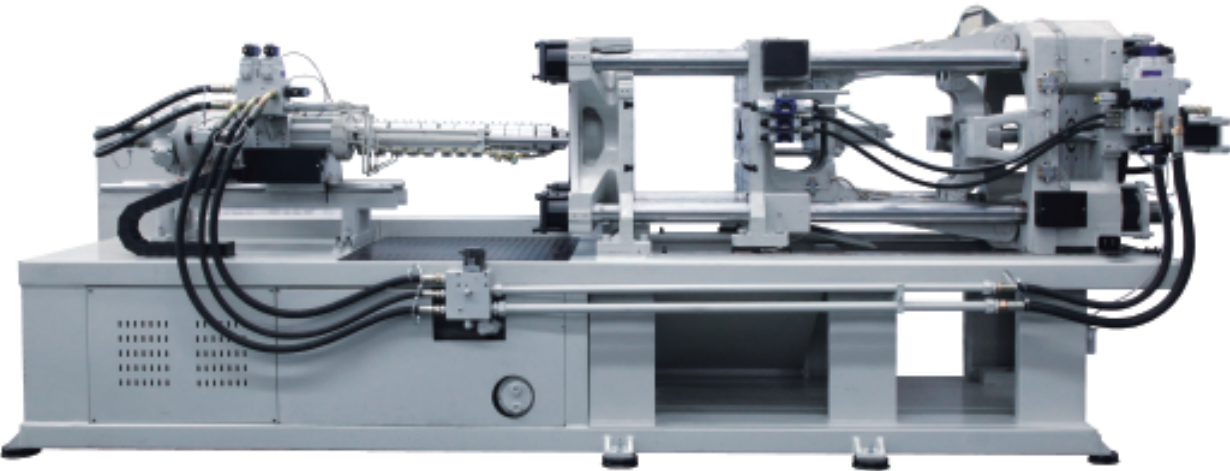
© Finite-element analysis



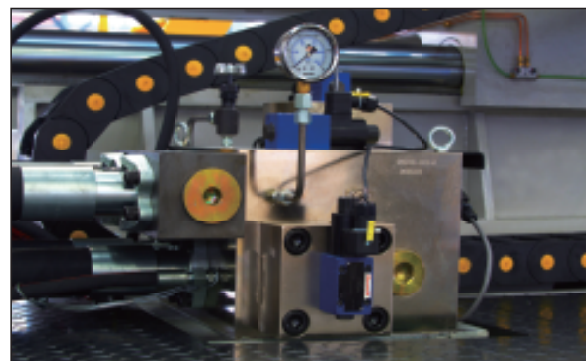
© With big diagonal type clamping unit design, easy mould open and the clamping unit running fast and smooth

© Flexible front platen design, with little deformation

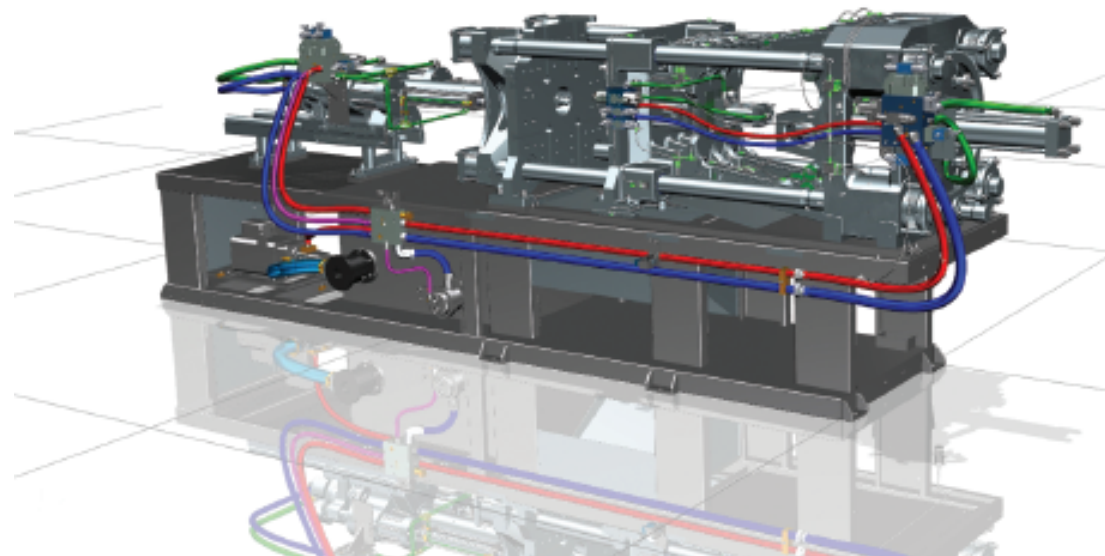
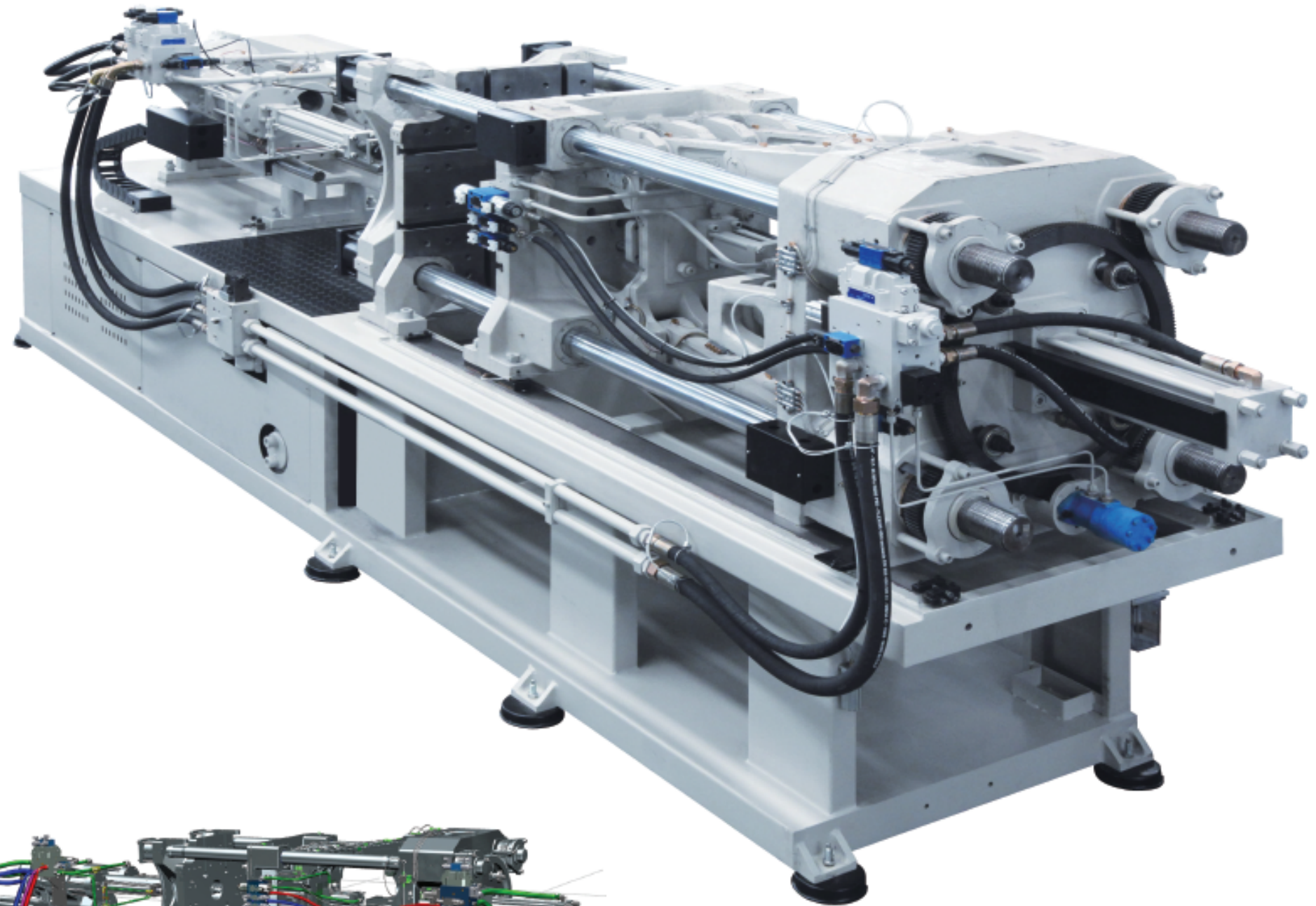
© Two pillar guider design,Inject fast, stable& precise



- © High-precision hydraulic oil filter system
- © Oil temperature/level instant monitoring
- © High performance servo motor system,
hydraulic components from world famous brands
- © Meet GB22530 and EN201 Safety Standard



© Nickel-plated valve block to avoid rusting and oil leaking



Hydraulic routes with the fewest bents, welding and shortest route

Instant power-consumption monitoring and clamping force display



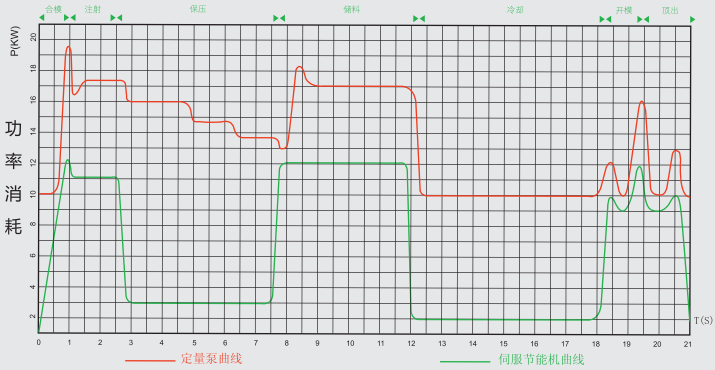
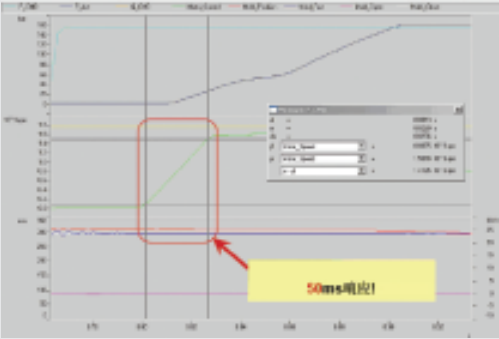
© Water & dust-proof electrical cabinets, separated cabinets for high/low currency, electrical components from world famous brands.

© World leading servo motor system

© Sequence of machine movement editable online



© Safety relay + force oriented combination of relay protection © Servo motor system with quick response, response time 30~50s © Save power by 30~80%, comparing with traditional hydraulic system



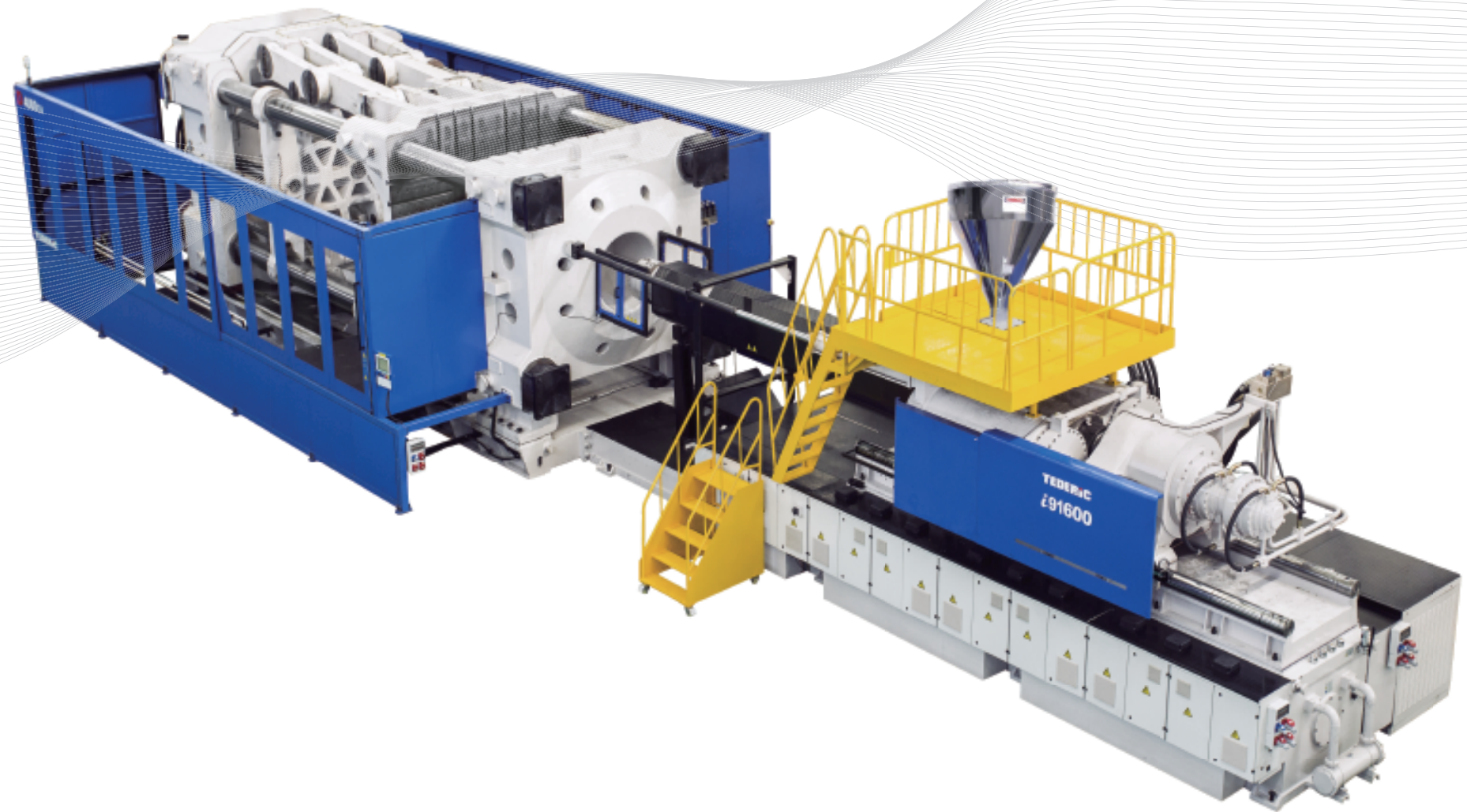
© High-performance controller,easily to obtain the data



More professional IMM solutions and choices

Standard components:

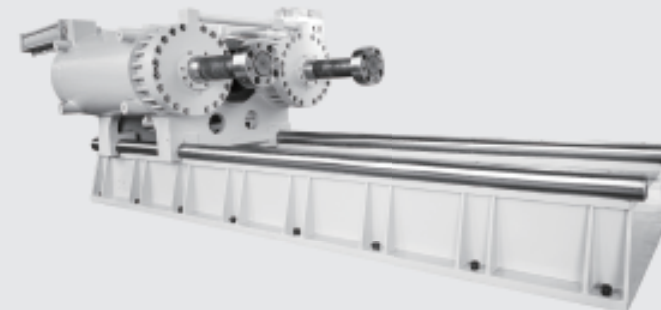
- ◎ Two parallel injection cylinders
- ◎ Plasticizing with hydraulic motor
- ◎ Transducer control for carriage unit
- ◎ Transducer control for injection location
- ◎ Proportional back pressure control
- ◎ Screw RPM display
- ◎ Barrel insulated
- ◎ Auto-purge
- ◎ Nozzle centering turning device
- ◎ Nozzle shielded cover
- ◎ Stainless hopper



◎ High rigidity injection unit base

◎ High rigidity injection unit carrier

◎ *i* : Two- cylinder injection reciprocating screw structure



Professional solution with super big injection volume

J_I: Extruded injection structure, injection pressure less than or equal to 100Mpa

Professional extruded injection molding solution for pipe fittings

Clamping force: 4000KN-40000KN

Injection volume: 9000cm³-750000cm³

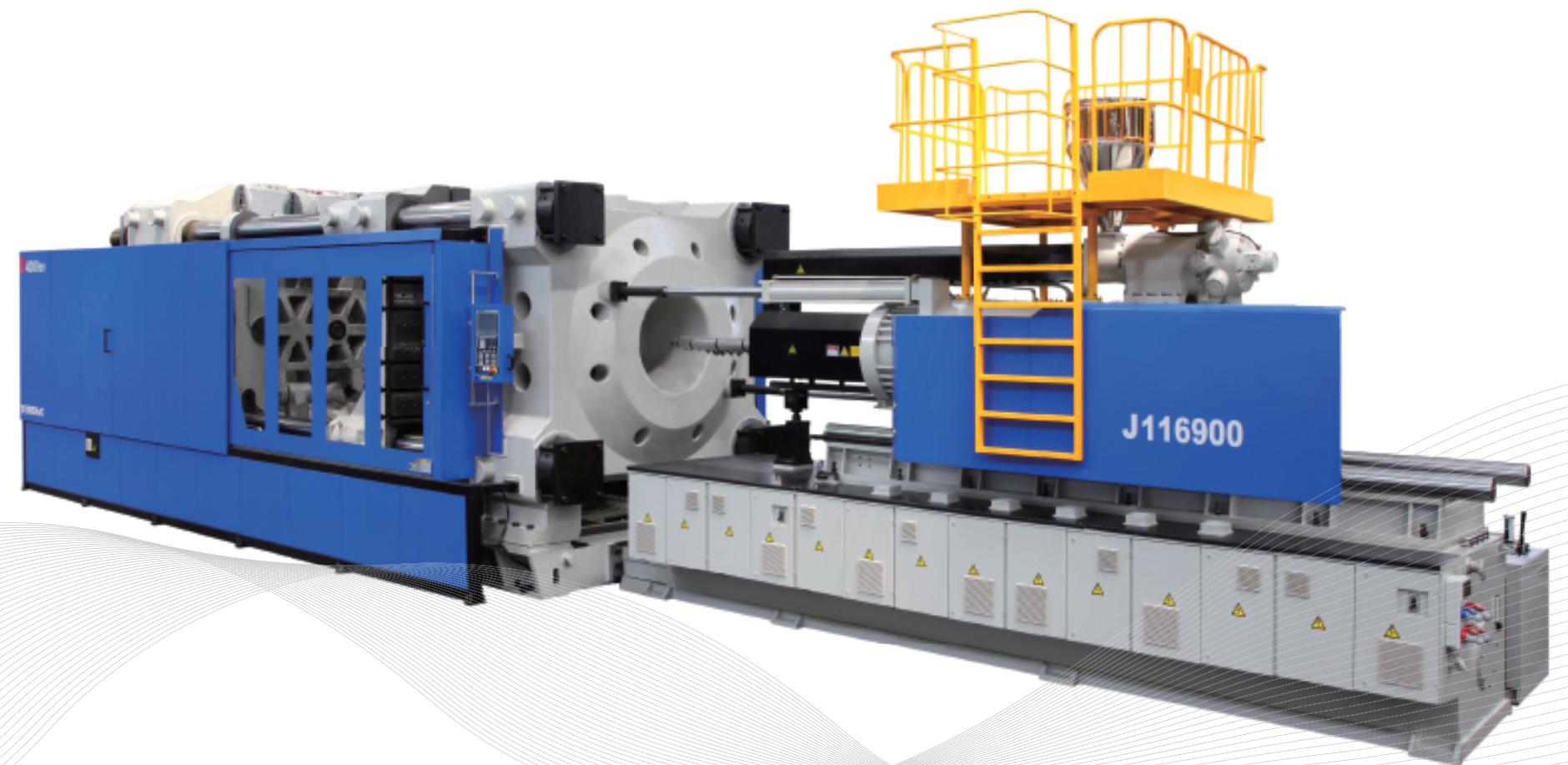
J_{II}: Extruded injection structure, injection pressure greater than 100Mpa

Professional extruded injection molding solution for pipe fitting,

logistics and communication plastic products

Clamping force: 4000KN-40000KN

Injection volume: 6082cm³-430000cm³



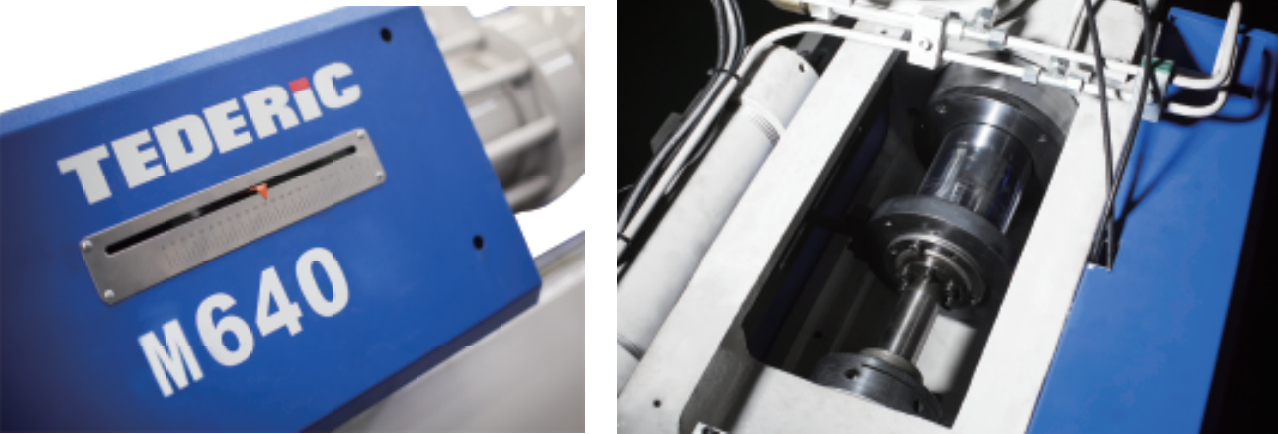
© The single cylinder and piston injection for stable and high efficient injection

© The precision hydraulic nozzle, more accurate temperature control

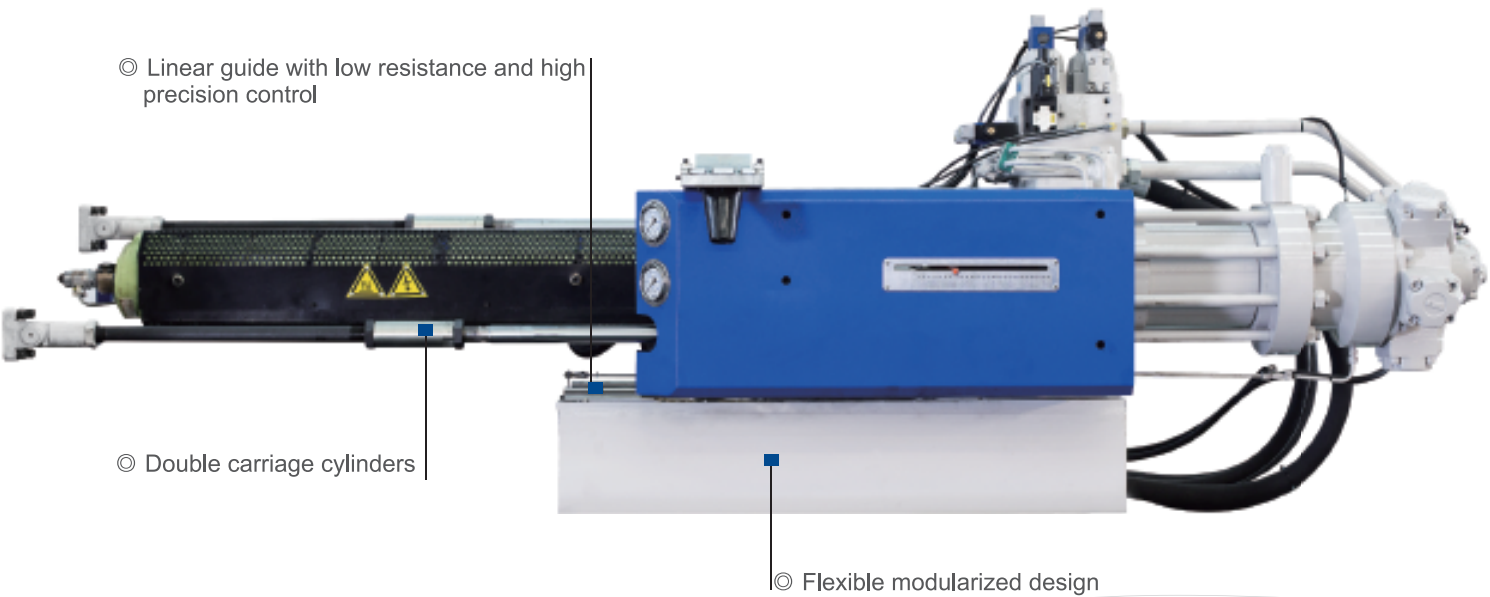
© The double injection cylinder for big injection volume



Professional solution for high speed injection



- M: 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





D-ipvc

- ◎ Special plasticizing unit for PVC
- ◎ Widened safety door
- ◎ Updated plasticizing motor
- ◎ Special air cooling and core cooling temperature control device
- ◎ Two groups of core pulling device to meet the demand of different moulds
- ◎ Power consumption : 0.16KW.h/KG



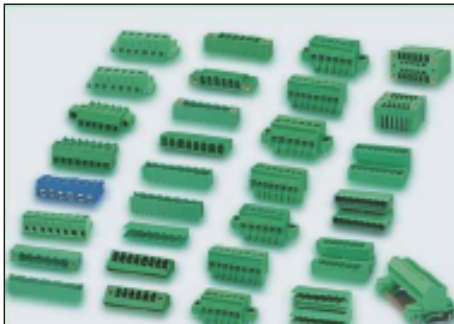
D-iPET

- ◎ Professional PET screw ratio (L/D1:24)
- ◎ Equip with high torque screw motor, make sure it with RPM, good mixing and high plasticizing effect
- ◎ Big channel water regulator to meet the PET preform mould cooling demand
- ◎ Increase the ejector force, adapt for multi-cavity perform mould demoulding
- ◎ Barrel with PID system, precise temperature control
- ◎ We can offer full solution for PET perform system as mould, auxiliary machine and blow molding machine



D-is

- ◎ Professional plasticizing for thermosetting materials
- ◎ Mould heat insulation device
- ◎ Heat oil temperature control device for barrel
- ◎ Auto-heating interface for mould
- ◎ Exhaust function



D-M3c

- ◎ Professional plasticizing for engineering products
- ◎ Temperature monitoring for material feeding throat
- ◎ Injection pressure greater than or equal to 2300bar
- ◎ Injection speed greater than or equal to 150mm/S
- ◎ Close loop control for mould open
- ◎ Close loop control for injection position
- ◎ High response servo motor system
- ◎ High performance controller



D-MMc

- ◎ Dc series include with marble injection and sandwich injection
- ◎ Consist of two separate single cylinder injection units
- ◎ Unique barrel and the nozzle design
- ◎ Meet different demand for marble effect design and sandwich injection



DD-MM

- ◎ D₀ series include with rotating platen, rotating spindle and without rotate platen.
- ◎ Consist of two separate single cylinder injection units
- ◎ Unique barrel and the nozzle design
- ◎ Two injection units are arranged at a right angle, one horizontal and another vertical multiple structures bring you with creative possibilities.

◎ Please refer to the parameters of derivative series on the pocketbook.



◎ The D₀ clear dual color rotation injection moulding machine with parallel single injection cylinder unit.



- Packages:** DREAM series—Injection molding machine solution for packing
- ◎ TEDERIC provide effective, speedy and cost efficient solution for the demand of quick-forming and thin wall products
 - ◎ Professional plasticizing system with good quality and high plasticizing
 - ◎ Electric plasticizing , realize the synchronization of mold open/close and charging
 - ◎ Enhance clamping unit and frame, to guarantee steady and speedy running
 - ◎ Highly responsive servo driver system and control system
 - ◎ Specialized highly speed hydraulic system



- Electronic:** Dream series—electric components injection molding solution
- ◎ TEDERIC offers the all-electric direct driving solution based on precise molding demands of 3C/optical/medic industry
 - ◎ All-electric machine with specialized, precise plasticizing unit
 - ◎ Highly responsive direct driving system to make sure high speed and high pressure injection molding
 - ◎ Accurate mold open/close position control can be helpful for automation
 - Precise clamping force control to improve accuracy of finished products



- Appliance:** Dream series-Appliances injection molding solution
- ◎ Modular design of the machine clamping unit, injection unit and power unit to offer all aspects of choice, TEDERIC offers appliances injection molding solution.
 - ◎ Specialized plasticizing unit and Temp. monitoring unit for appliance, improve the quality and mixing result.
 - ◎ Optimized collocation for clamping unit and injection unit
 - ◎ Highly speed, intelligent control system
 - ◎ Superior precision, high response and big power servo system



- Pipe fittings:** Dream series-Pipe fittings injection molding solution
- ◎ TEDERIC offers professional solutions for pipe fittings according to the molding characteristics of PVC, PPR and PE fitting etc.
 - ◎ Professional PVC molding solution: PVC plasticizing unit, PVC air cooling fans for temperature control unit
 - ◎ Professional PPR molding solution: PPR plasticizing system, bigger injection volume design
 - ◎ Professional PE molding solution: J type extrusion & injection molding system with super big injection volume
 - ◎ Optimized energy saving servo system for pipe fitting project

- Logistics:** Dream series-Super big injection molding solution for logistics
- ◎ TEDERIC offers high efficient and economic solutions for extra large plastic products according to the molding characteristics of pallet, container, trash can etc.
 - ◎ High productivity, high quality plasticizing system design based on the PE/PP material features
 - ◎ Big power, high speed, multiloop, energy saving servo hydraulic system
 - ◎ Flexible configuration of injection unit with reciprocating screw and piston screw



- Auto parts:** Dream series-Auto parts injection molding solution
- ◎ Professional modular design, plasticizing unit for engineering plastics, optional functions to satisfy your different demands.
 - ◎ Optimized collocation for clamping unit and injection unit, applicable with small injection volume and high injection pressure according to clamping force
 - ◎ Flexible option between three platen and two platen clamping unit
 - ◎ Professional heating temperature monitoring system
 - ◎ High speed, intelligent control system
 - ◎ Superior precision, high response and big power close loop hydraulic servo system
 - ◎ Massive options are available, including high expansibility, fast mold changing system, multi-sets core pulling, sequential injection, multiunit hot runner etc.



The above solution is Tederic customized the professional solution project of waste materials injection moulding for customers. Using the Tederic special squeeze injection and twice clamping technology, solved the requirements from the material to the finished product output interactively.