



DH SERIES

TWO PLATEN MACHINE



PRODUCT INTRODUCTION



WECHAT



WEB

TEDERIC

泰瑞机器股份有限公司
TEDERIC MACHINERY CO.,LTD.

ADD: No 245 North Wenzhe Road, Hangzhou Economic &
Technological Development Area, China
P.C.: 310018
TEL: +86-571-86733376
EMAIL: tederic@tederic-cn.com

www.tederic-cn.com

TE2015.01-DH-02-HZ

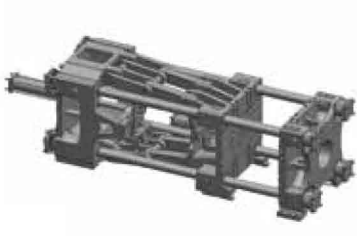
TEDERIC
TEDERIC MACHINERY MOLDING DREAMS

Product platform for Two platen machine

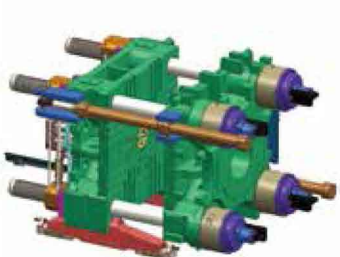
D:DREAM

D(T)	 DH	DE
D(T)/i	DH/i	DE/E
D(T)/M	DH/Ji	
D(T)/Ji	DH/Jii	
D(T)/Jii		

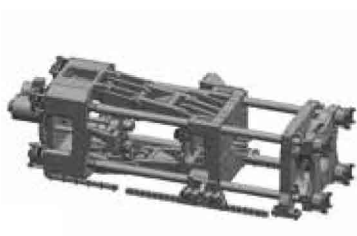
Prime code of clamping unit



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



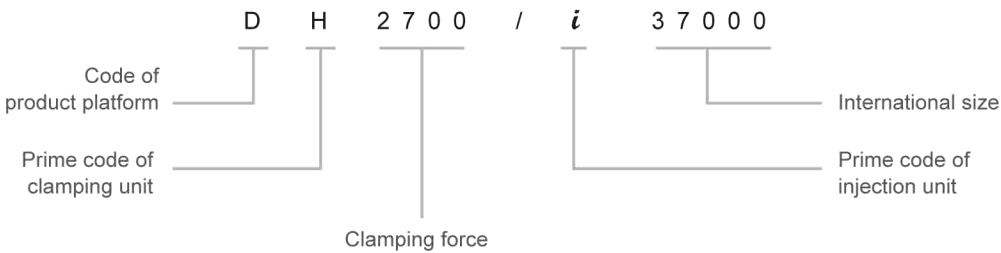
M: Single-cylinder injection reciprocating screw structure



J: Extruded injection structure



E: Electric injection structure

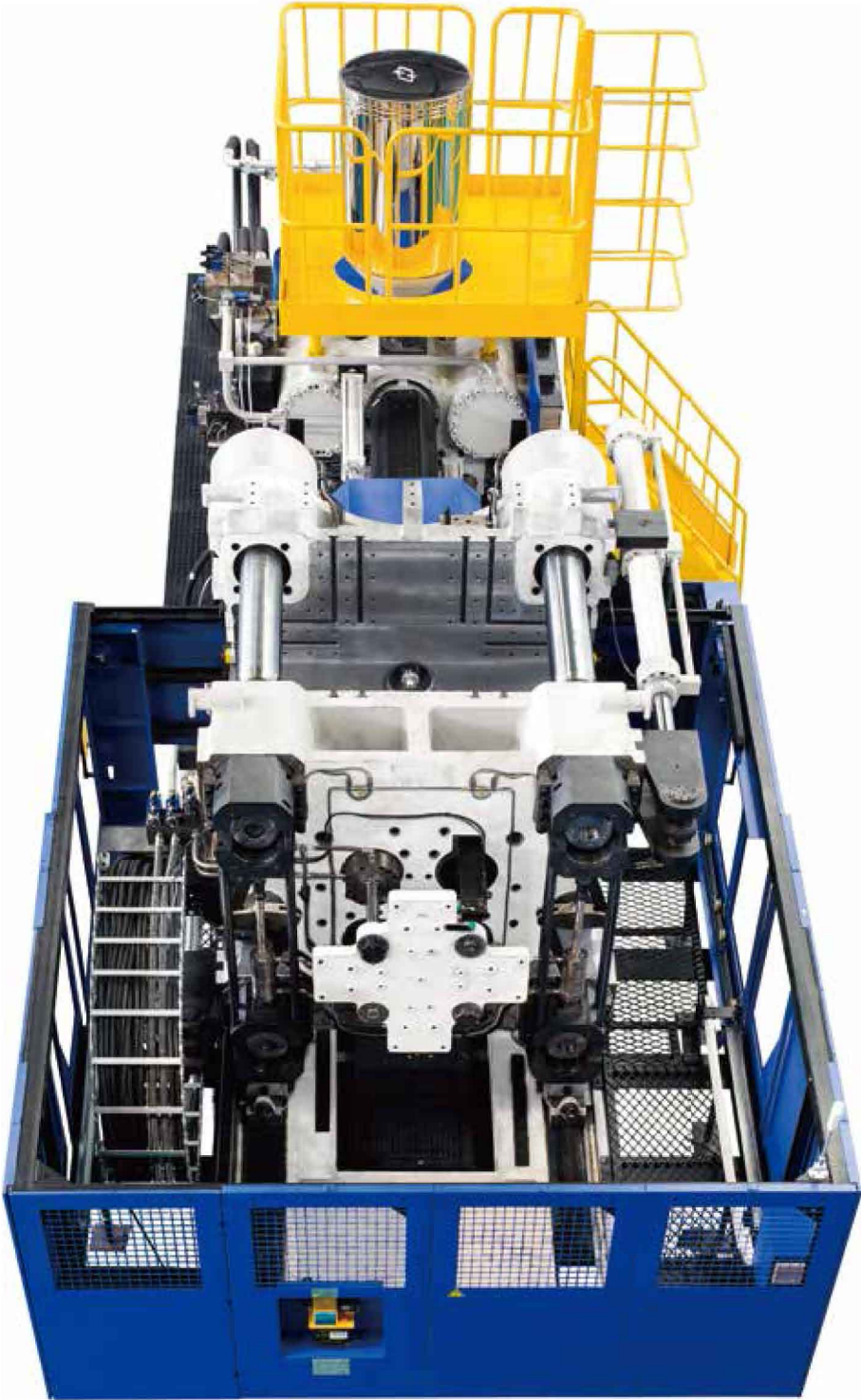


Two-platen
clamping structure

Inheritance of the classic design
conception from
DEARM products family

Clamping force
850-7000ton

Multiple optional match with
injection unit of i、J series

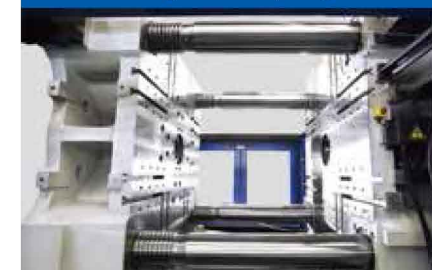




- ▲ Clamping force: 850T-7000T
- Optional match: \dot{I} 、J_I、J_{II} injection system

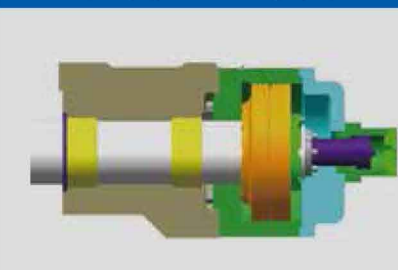
Features

Huge mold capacity



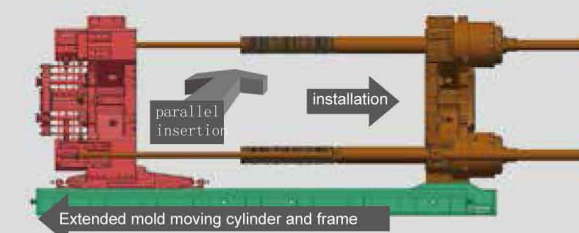
- Huge mold capacity and open mold stroke
- Modularized design for moving cylinder

Unitary high pressure clamping cylinder



- Wear-resistant copper bushes: efficient support for tie bar
- Unitary clamping cylinder: reduce the probability of leaking
- Mold adjustment cylinder: isolated modulation with accuracy for tie bar position, enhance the mould opening force

Horizontal mold loading function (optional)



- Ultra-extended mold opening stroke added as optional function, extended moving cylinder and frame

two-platen clamping unit



- Reverse installation of ejection cylinder, reduce both the length and the occupied area of machine
- Reverse redrawing structure design for ejection, convenient for installation of eject rod

High rigidity and long platen shoes structure



- Lean-iron slider structure, more convenient and simple adjusting for parallelism between molds
- Ultra extended support sliders, avoid the bending forward and increases bearing capacity for mould

Synchronous half-nut locking mechanism



- Clasp brake hydro-cylinder with buffer unit, accuracy localization without crushing
- Huge mold opening force
- Uniformly forced via centering tie bar

Frame body with high rigidity



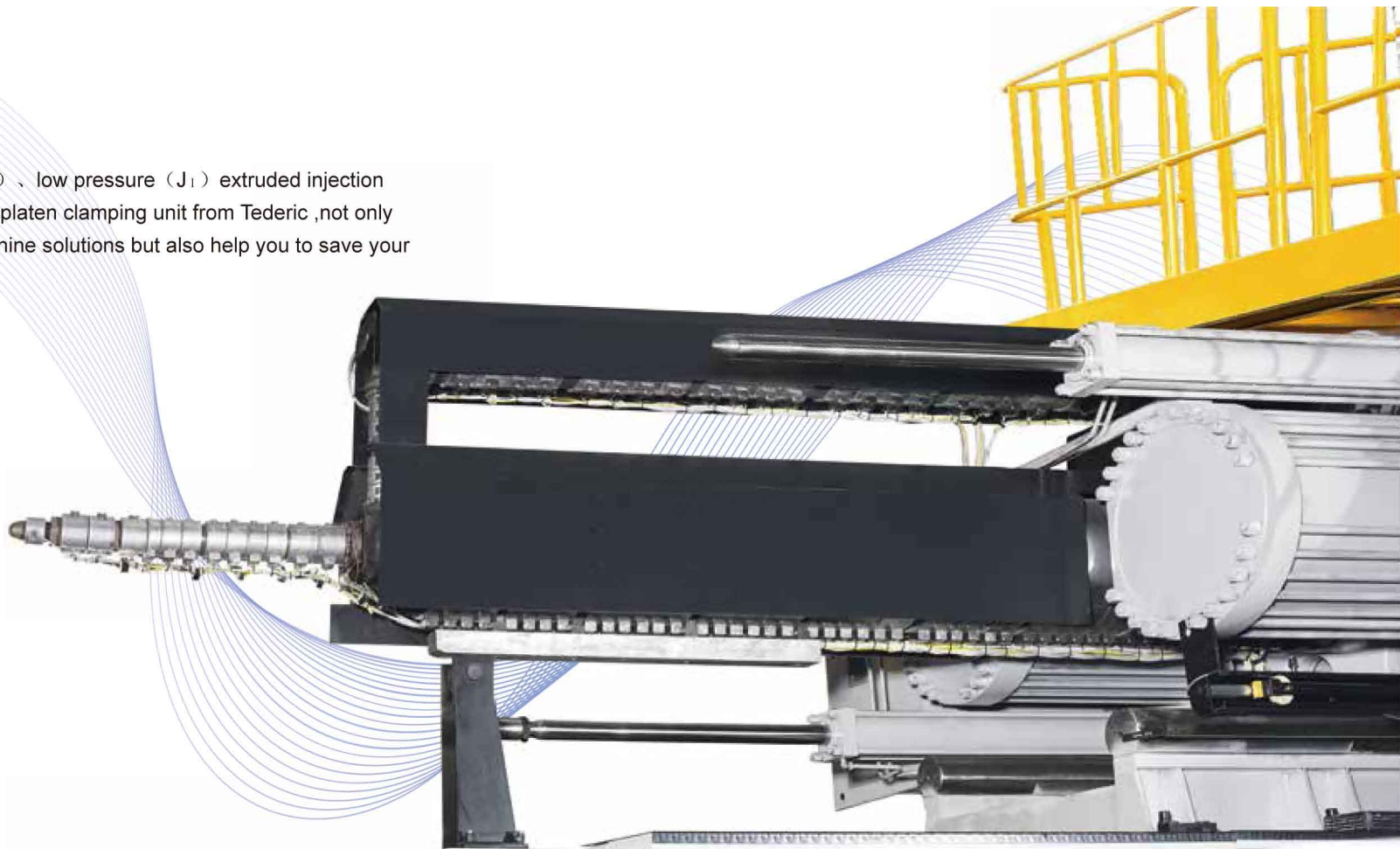
- Isolated support plank for fixed plate, avoid the leaning aside and increases bearing capacity
- Big safety pads on mold locking frame, increases the safety of operation zone

Tie bar and moving platen



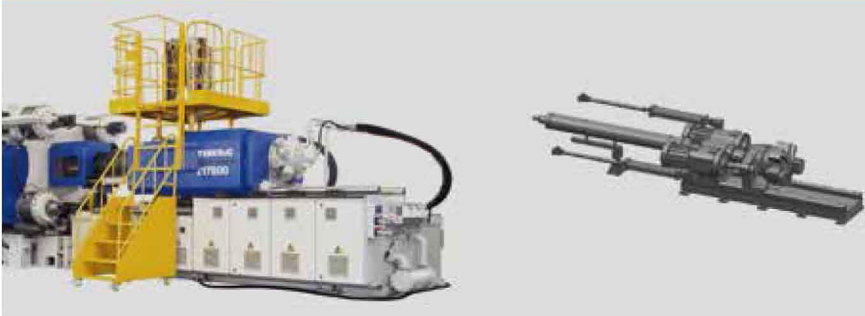
- Zero friction between moving platen and tie bar, lengthen the life of tie bar and speeds up the mold open/close

▼ The high pressure (J_{II}) 、 low pressure (J_I) extruded injection unit combined with two platen clamping unit from Tederic ,not only provide diversified machine solutions but also help you to save your factory space



Features

i-type injection unit



- i : Injection unit with double injection cylinder and reciprocating screw

J-type injection unit



- J : Extruded injection unit

High rigidity injection unit base



- High rigid injection unit base, to improve the stability of the injection
- Multi pumps servo motor system

Professional screw design



- Meet different plastic material application

Injection unit carrier



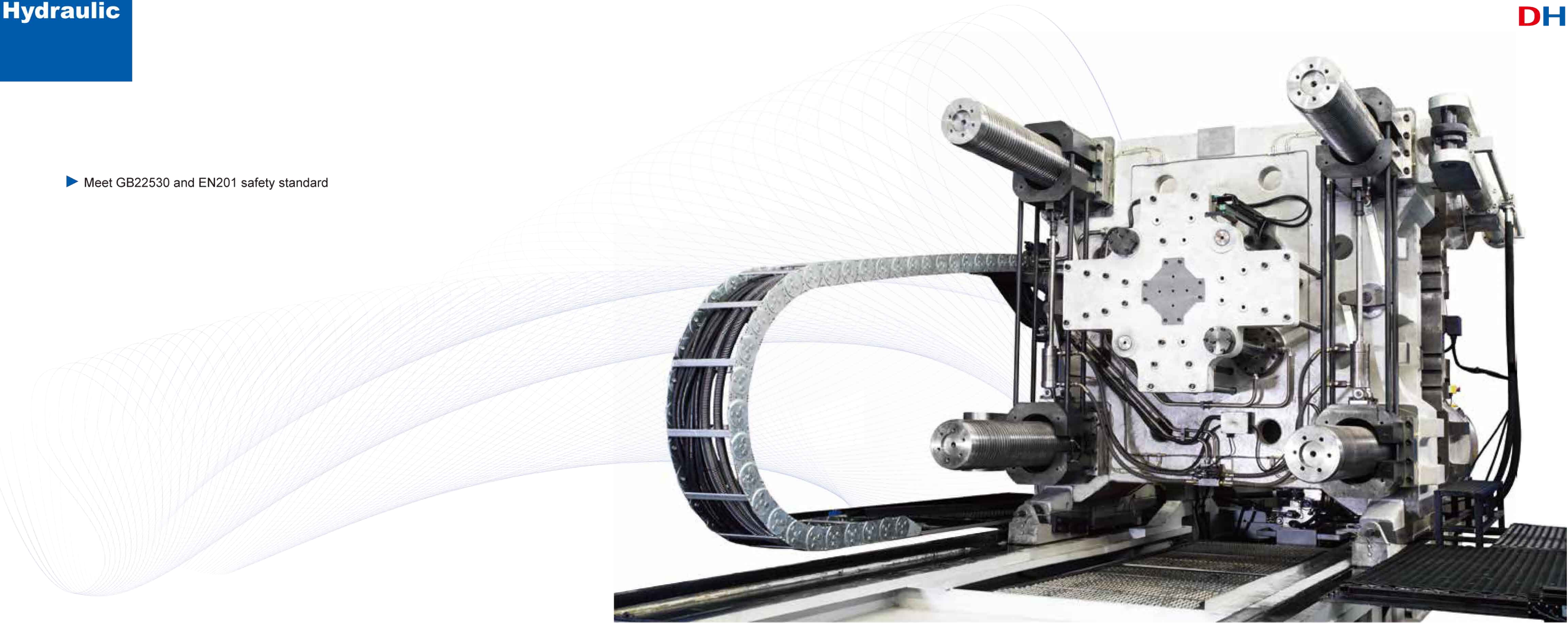
- Injection unit unitary high rigid support

Nickel-plated valve block and wire protection chain




- Nickel-plated valve block to avoid rusting and oil leaking
- Wire protection chain:saftey/elegance/simplicity

▶ Meet GB22530 and EN201 safety standard



Features

High-efficient hydraulic motor



- As per different international injection shot size, match best high-end plasticizing motor

High-efficient servo motor



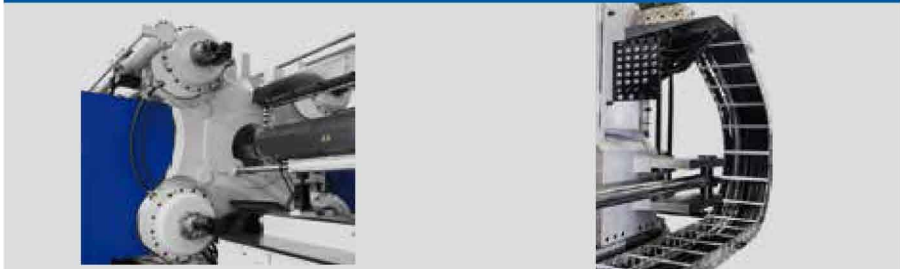
- High-efficient hydraulic servo system, increases pressure rapidly and steadily

Proportional valve control




- Platen movement by high response proportional control quicker & smoother and more precise

Reasonable hydraulic pipe layout



- The layout of hydraulic pipe for mold adjustment are stable and compact
- Compact layout of hydraulic, water, electric pipes

Sequence valve (option)



- Centralized assemble of sequence valve, easy to use
- The groups of sequence valve as per mold requirement
- Multi-mode control sprue for sequence injection



▲ Modular designed of electric control cabinet, separately cabinet of low current , high current and servo control

Features

Servo driver

- Saving power 40%-80% comparison with traditional hydraulic machines ,and with high precision control

High-performance controller

- Humanized touch screen device, easily to obtain the data
- Flexible modularized mainboard, free combination for I/O point
- Mighty open software platform, Programming quickly and easily
- KEBA controller(Optional)

Digital displacement transducer

- Non-contact sensor with longer service life
- Communications can-bus, higher speed and better interference immunity
- Magnetostrictive Technology, high linearity and accuracy even with Ultra-distance
- Protection grade: IP67

Safety algorithm for dual mold protection

- Ensure mold clamping safety

Mold close and open smoothly and fast

- Mold close and open position closed-loop prediction function algorithm, greatly reduce mold open and close time
- Combined with proportional directional valve and learning program (linearized), makes mold open and close much smoother

Hot runner(optional)

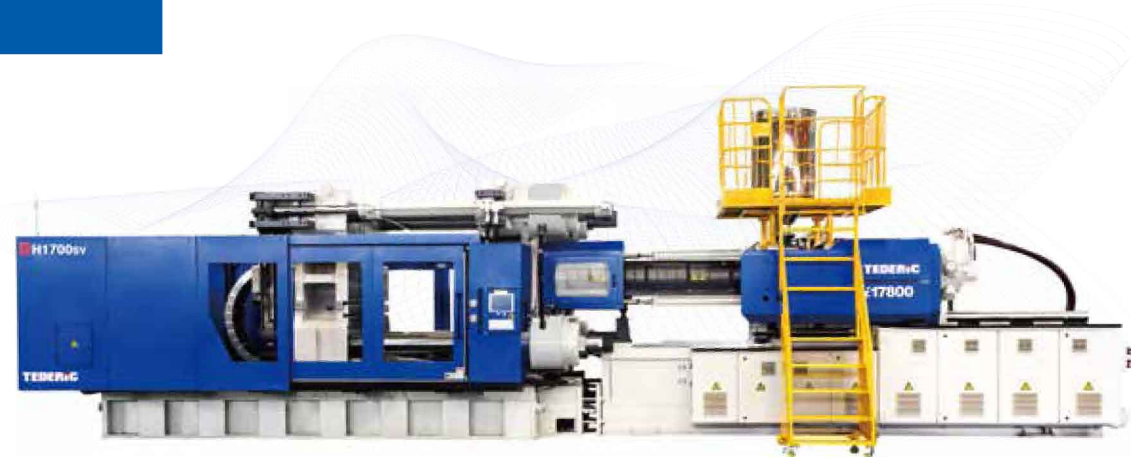
- Hot runner temperature control integrated within controller, convenient operation and precise control

Clamping force monitor(optional)

- Real time detection on clamping force and automatic adjustment
- Real time detection on eccentric load ratio with alerts

Energy consumption on-line monitor(optional)

- Real time detection on energy consumption for aggregative products, individual product and entire machinery



Application

Auto parts, Home appliances, Logistics etc.

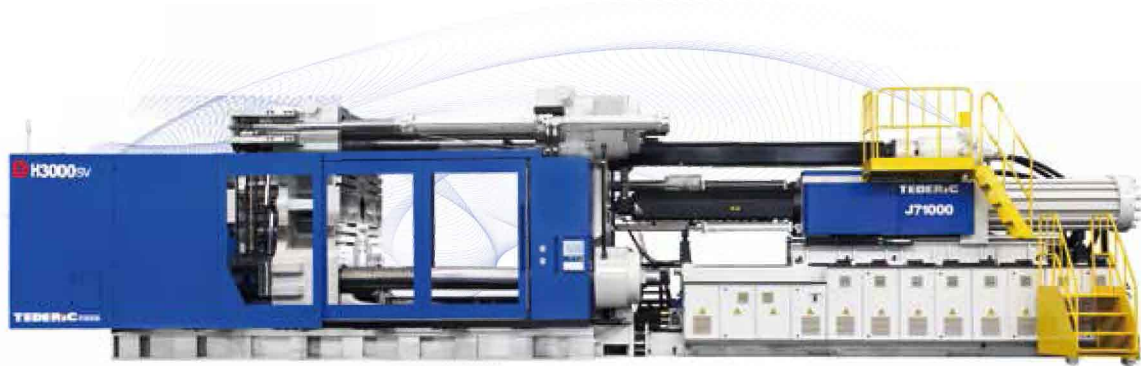


D H 1400 / i 17800
Dream
Two-platen machine
Clamping force
International size
Injection unit i: Double injection cylinder with injection structure of reciprocating screw

DH / i series Configuration for clamping unit and injection unit

Clamping unit / Injection unit	i7500	i9500	i13500	i17800	i24000	i37000	i54000	i66000	i91600
DH850	Standard	Optional							
DH1200	Optional	Standard	Optional						
DH1400		Optional	Standard	Optional					
DH1700			Standard	Standard	Optional				
DH2100				Optional	Standard	Optional			
DH2700					Optional	Standard	Optional		
DH3000						Optional	Standard	Optional	
DH3500							Optional	Standard	Optional
DH4050								Optional	Standard
DH7000									Standard

Standard Optional



Application

Pipe fittings



D H 3000 / J i 7 1 0 0 0
Dream
Two-platen machine
Clamping force
International size
Ji: Extruded injection structure
Injection pressure: Around 100MPa

DH/J I series Configuration for clamping unit and injection unit

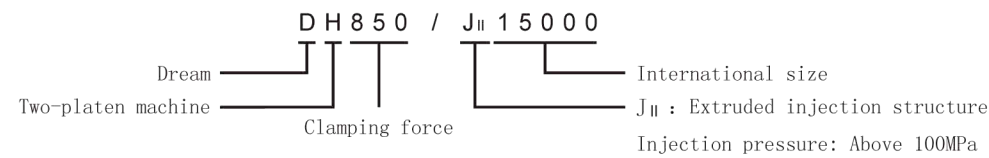
Clamping unit / Injection unit	Ji35500	Ji54000	Ji71000	Ji108000	Ji117000	Ji179000	Ji215000	Ji250000
DH850	Standard	Optional						
DH1200	Optional	Standard						
DH1400		Optional	Standard					
DH1700		Standard	Optional	Optional				
DH2100			Standard	Standard	Optional			
DH2700				Optional	Standard	Optional		
DH3000					Standard	Standard	Standard	
DH3500						Optional	Standard	Standard
DH4050							Optional	Standard
DH7000								Standard

Standard Optional



Application

Logistics, pipe fittings



DH / J_{II} series configuration of clamping unit and injection unit

Clamping unit / Injection unit	J _{II} 15000	J _{II} 24000	J _{II} 35500	J _{II} 54000	J _{II} 71000	J _{II} 117000	J _{II} 179000	J _{II} 215000	J _{II} 250000	J _{II} 588000
DH850	Standard	Optional								
DH1200	Standard	Optional								
DH1400	Optional	Standard	Optional							
DH1700	Optional	Standard	Optional							
DH2100		Optional	Standard	Optional						
DH2700			Optional	Standard	Optional					
DH3000				Optional	Standard	Optional				
DH3500					Optional	Standard	Optional			
DH4050						Optional	Standard	Optional		
DH7000									Optional	Standard

Standard Optional

DH series Components & Functions list --- For Clamping unit

Function description / Clamping unit	DH850-1200	DH1400-7000
Platen with screw hole	Optional	Optional
Platen with T slot	Standard	Standard
Platen (According to Euromap 2)	Optional	Optional
High rigid 2-platen clamping unit	Standard	Standard
Mechanical safety	Optional	Optional
Electrical safety	Standard	Standard
Hydraulic safety	Standard	Standard
Auto-mold height adjusting function	Standard	Standard
Mold open, closing and mold adjusting are controlled by transducer	Standard	Standard
Fix-quantity type auto central lubrication system	Standard	Standard
Mechanical adjust support for moving platen	Standard	Standard
High rigid steel slide tape for moving platen	Standard	Standard
Auto safety door	Optional	Standard
EUROMAP 18 robot interface	Standard	Standard
Mechanical limit for moving platen	Standard	Standard
Magnetic platen	Optional	Optional
Hydraulic/electrical unscrew device	Optional	Optional
Widened door and covers	Optional	Optional
Safety pad under mould area	Standard	Standard
2groups of water regulator	Standard	Standard
Quick coupling for water regulator	Standard	Standard
2 groups of air blaster	Standard	Optional
4 groups of air blaster	Optional	Standard
Glass water regulator	Optional	Optional
Self-lock valve for locking	Standard	Standard

Standard Optional

DH series Components & Functions list --- For injection unit

Function description / International size	i Injection unit		Ji Injection unit		Jii Injection unit	
	i7500-9500	i13500-91600	Ji35500-Ji71000	Ji108000-Ji250000	Jii15000-Jii71000	Jii117000-Jii588000
Standard screw	●	●	●	●	●	●
Other screw	○	○	○	○	○	○
Shut off nozzle	○	○	○	○	○	○
Single cylinder injection	○	○	●	○	●	○
Double cylinder injection	●	●	○	●	○	●
2 carriage cylinders	●	●	●	●	●	●
Transducer control for carriage cylinder	●	●	●	●	●	●
Screw rotating speed display	●	●	●	●	●	●
Plasticizing with hydraulic motor	●	●	●	●	●	●
Proportional back pressure control	●	●	○	○	○	○
Temp-monitoring for material feeding zone	○	○	○	○	○	○
Barrel Insulation cover	●	●	●	●	●	●
Nozzle cover	●	●	○	○	○	○
Self-lock valve for carriage forward	●	●	●	●	●	●
Barrel supporting device	●	●	●	●	●	●
Injection carriage turn out device	○	●	○	●	○	●
Material loading platform	○	●	●	●	●	●
Carriage central lubrication device	●	●	●	●	●	●
Carriage central auto lubrication device	○	○	○	○	○	○
Stainless heater bands	●	●	○	○	○	○
Ceramic heater band	○	●	●	●	●	●
Electrical plasticizing	○	○	○	○	○	○
Screw mobile feed hopper	○	○	○	○	○	○
Gas-assisted injection interface	○	○	○	○	○	○
Foam moulding	○	○	○	○	○	○
Hopper dryer	○	○	○	○	○	○
Stainless hopper	●	●	●	●	●	●
Barrel Insulation device	○	○	○	○	○	○

● Standard ○ Optional

DH series Components & Functions list --- For Hydraulic

Function description / International size	i Injection unit i7500-i91600	Ji Injection unit Ji35500-Ji250000	Jii Injection unit Jii15000-Jii588000
Servo motor pump	●	●	●
Variable pump	○	○	○
Fixed pump	○	○	○
Electronic variable pump	○	○	○
With bigger oil pump and motor	○	○	○
Injection pressure turns to pressure holding status	○	○	○
Function-Multiple sets of injection sequently	○	○	○
Fast injection with accumulator	○	○	○
Injection servo valve	○	○	○
The accumulator control	○	○	○
Oil level alarm	●	●	●
Self-lock suction oil filter	●	●	●
Cooling water valve	○	○	○
Function description / Clamping unit	DH850-1200	DH1400-1700	DH2100-7000
2 groups of core pullings(on moving platen)	●	○	○
4 groups of core pullings(2 for moving platen, 2 for fixed platen)	○	●	●
Sequence valve	○	○	○
Fast molding closing device	●	●	●
Quick clamping	●	●	●
Ejector on the fly (eject without proportional control)	○	○	○
Ejector on the fly (eject with proportional control)	○	○	○
Plasticizing on the fly (Plasticizing without proportional control)	○	○	○
Plasticizing on the fly (Plasticizing with proportional control)	○	○	○
Plasticizing & ejector on the fly (with proportional control)	○	○	○
Proportional valve control for clamping and open	●	●	●
Servo valve for mold open/close	○	○	○
Proportional valve for eject	○	○	○

DH series Components & Functions list --- For electric

Function description / International size	i7500-9500	i13500-91600	Ji35500-Ji250000	Jii15000-Jii588000
GEFRAN Controller	●	●	●	●
KEBA Controller	○	○	○	○
200 groups mould parameter memory	●	●	●	●
All action instant monitoring	●	●	●	●
Production monitoring	●	●	●	●
Failure alarm display	●	●	●	●
Injection pressure turns to pressure holding status	○	○	○	○
I/O monitoring display	●	●	●	●
3 color light (with buzzer)	●	●	●	●
Motor overload protection	●	●	●	●
Front/back door emergency stop switch	●	●	●	●
5 pins socket of 380V/32A, 2 groups				
5 pins socket of 380V/16A, 1 group	●	●	●	●
3 pins socket of 220V/16A, 1 group				
480V for servomotor system	○	○	○	○
Transformer for servomotor system	○	○	○	○
Power-saving with inverter	○	○	○	○
EURO MAP 12 robot interface	○	○	○	○
EURO MAP 67 robot interface	○	○	○	○
Double protection for heating	●	●	●	●
Safety relay monitoring	●	●	●	●
SSR heating control	●	●	●	●
Central network control system	○	○	○	○
Hot runner control system & interface	○	○	○	○
Instant power consumption monitoring	○	○	○	○
Instant clamping force monitoring	●	●	●	●
220V/10A Industrial plug	●	●	●	●
Electrical cabinet lighting device	●	●	●	●
Remote control	○	○	○	○
Close-loop control for mold open/close	●	●	●	●
Close-loop control for eject	○	○	○	○
Safety pedal monitoring	●	●	●	●
Injection unit seat monitor	○	●	●	●

● Standard ○ Optional

DH series Components & Functions list --- For other functions

Function description / Clamping unit	DH850-1200	DH1400-7000
TEDERIC standard color	●	●
Shock-proof pad	●	○
Foundation steel plate, Foundation anchor bolts	○	●
Spare parts box, tools, mould clamps, easy broken parts, extended nozzle, operation manual	●	●
Special color	○	○
High base	○	○
Robot	○	○
Magnet (for hopper dryer)	○	○
Chiller	○	○
Mould temp controller	○	○
Dehumidifier	○	○
Autoloader	○	○
Fumigated wooden packaging	○	○
With full-tank hydraulic oil	○	○
Products fetching platform	○	●

● Standard ○ Optional