



DH
PRODUCT INTRODUCTION

TEDERIC



WECHAT



WEB

TEDERIC MACHINERY MOLDING DREAMS

DH^{TWO PLATEN MACHINE}series



www.tederic-cn.com

TEDERIC

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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		

Two-platen
clamping structure

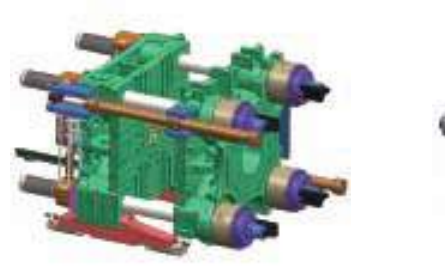
Inheritance of the classic design
conception from
DEARM products family

Clamping force
480-7000ton


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



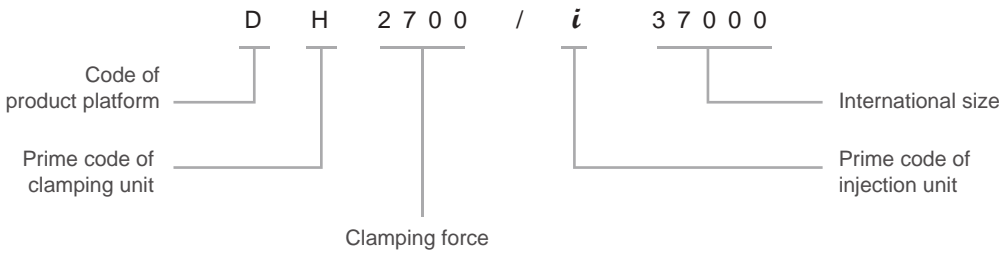
M: Single-cylinder injection
reciprocating screw structure

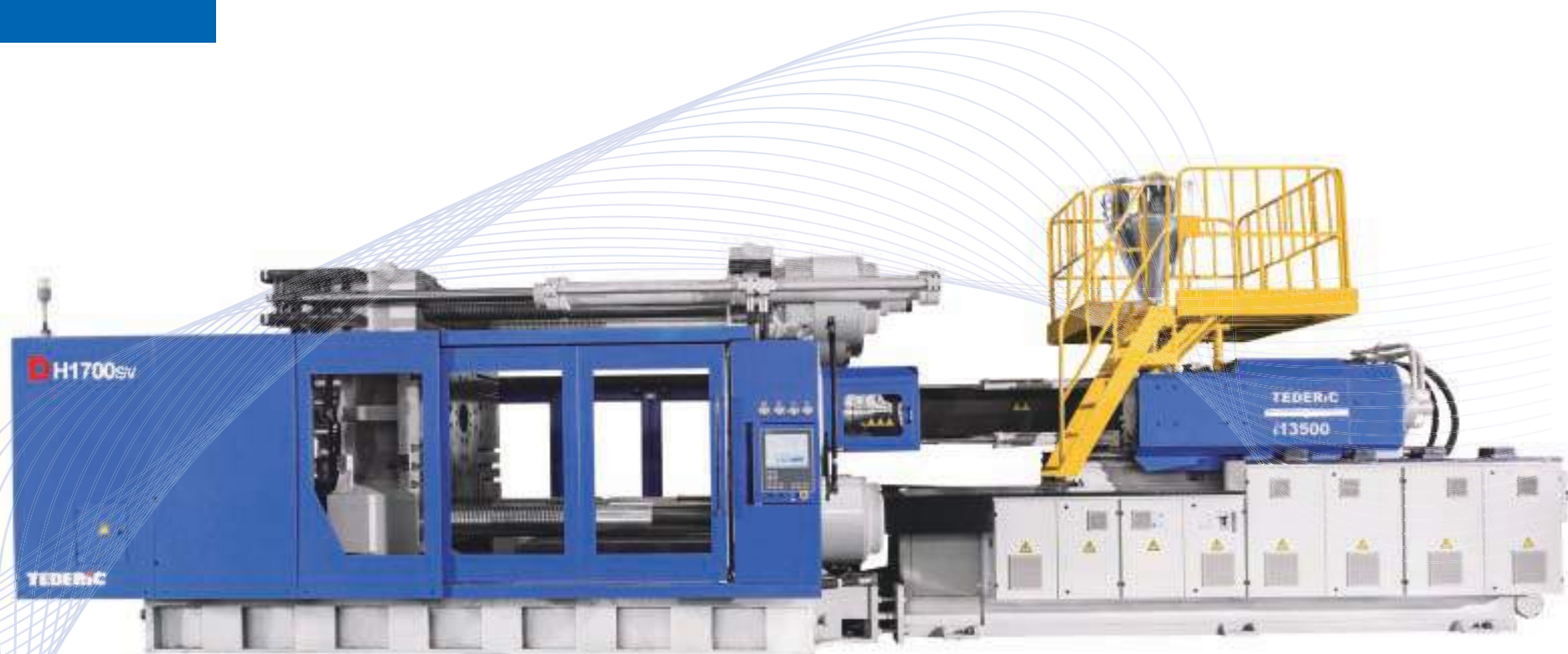


J: Extruded injection
structure



E: Electric injection
structure





- ▲ Clamping force: 480T-7000T
- Optional match: J_I、J_{II}、M injection system

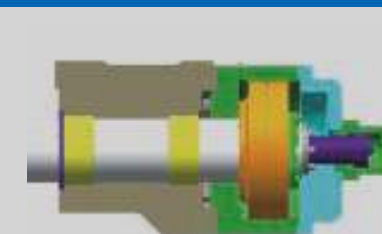
Features

Huge mold capacity



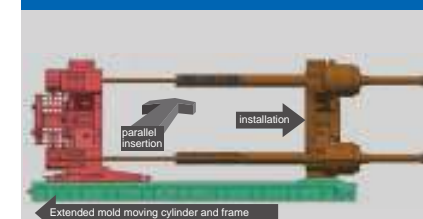
- Huge mold capacity and open mold stroke
- Modularized design for moving cylinder

Unitary high pressure clamping cylinder



- Unitary clamping cylinder : reduce the probability of leaking
- Mold adjustment cylinder : isolated modulation with accuracy for tie bar position, enhance the mould opening force
- Extend the tie bar service life via increasing the tie bar dia. 5-15mm(at the end of tie bar with screw thread)

Horizontal mold loading function (optional)



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

Capability of tie bar drawing (optional)



- Mold loading within limited height of workshop

two-platen clamping unit



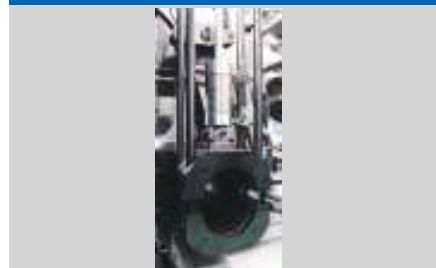
- Reverse installation of ejection cylinder, reduce both the length and the occupied area of machine
- Reverse redrawing structure design for ejection, convenient for installation of eject rod

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



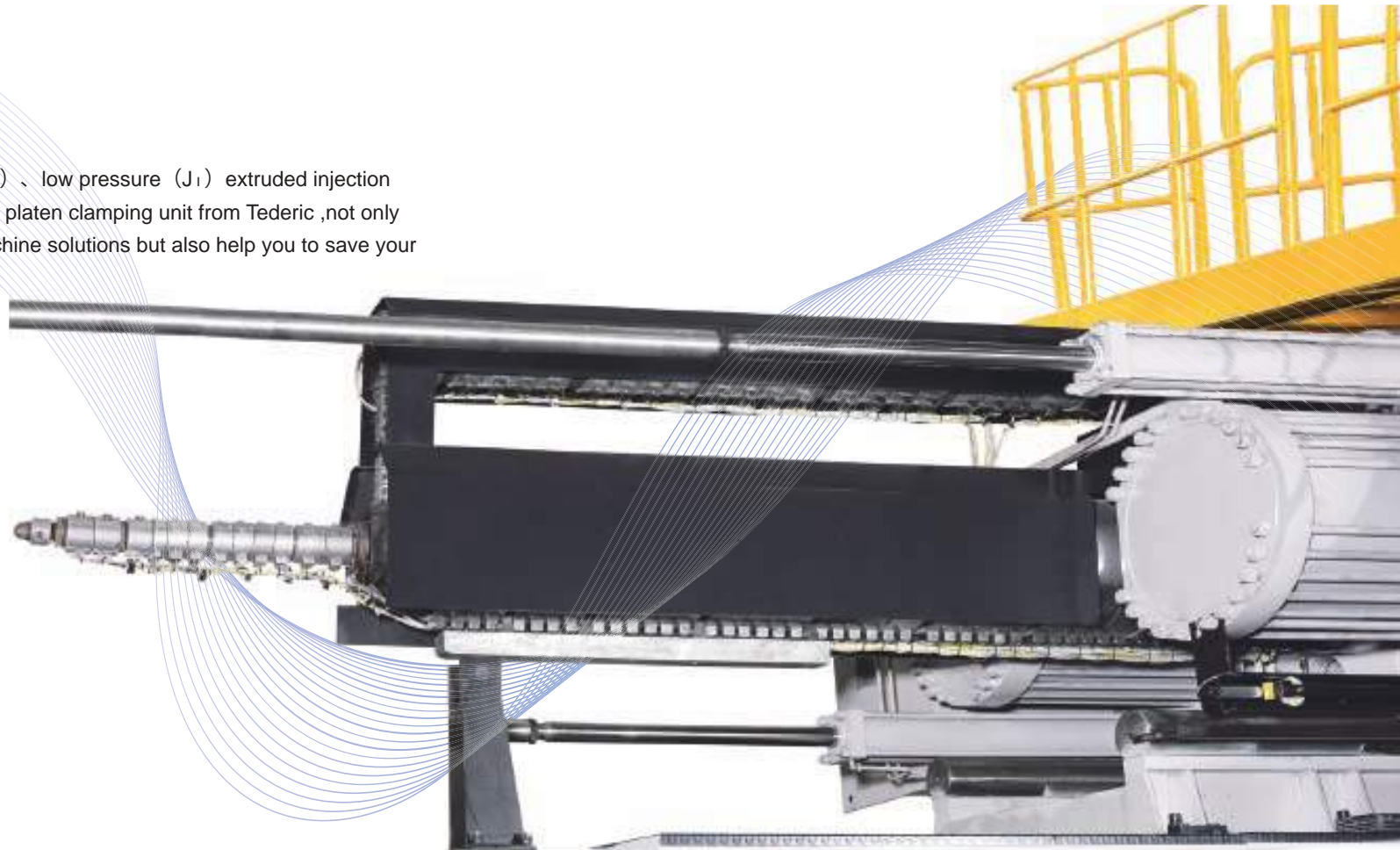
- Zero friction between moving platen and tie bar, lengthen the life of tie bar and speeds up the mold open/close

Mechanical safety device (Optional)



- Multi-protections for the operators by optional mechanical safety devices which are approved by the UL standard.

▼ 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



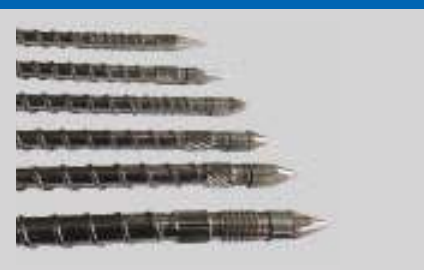
- J : Extruded injection unit

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



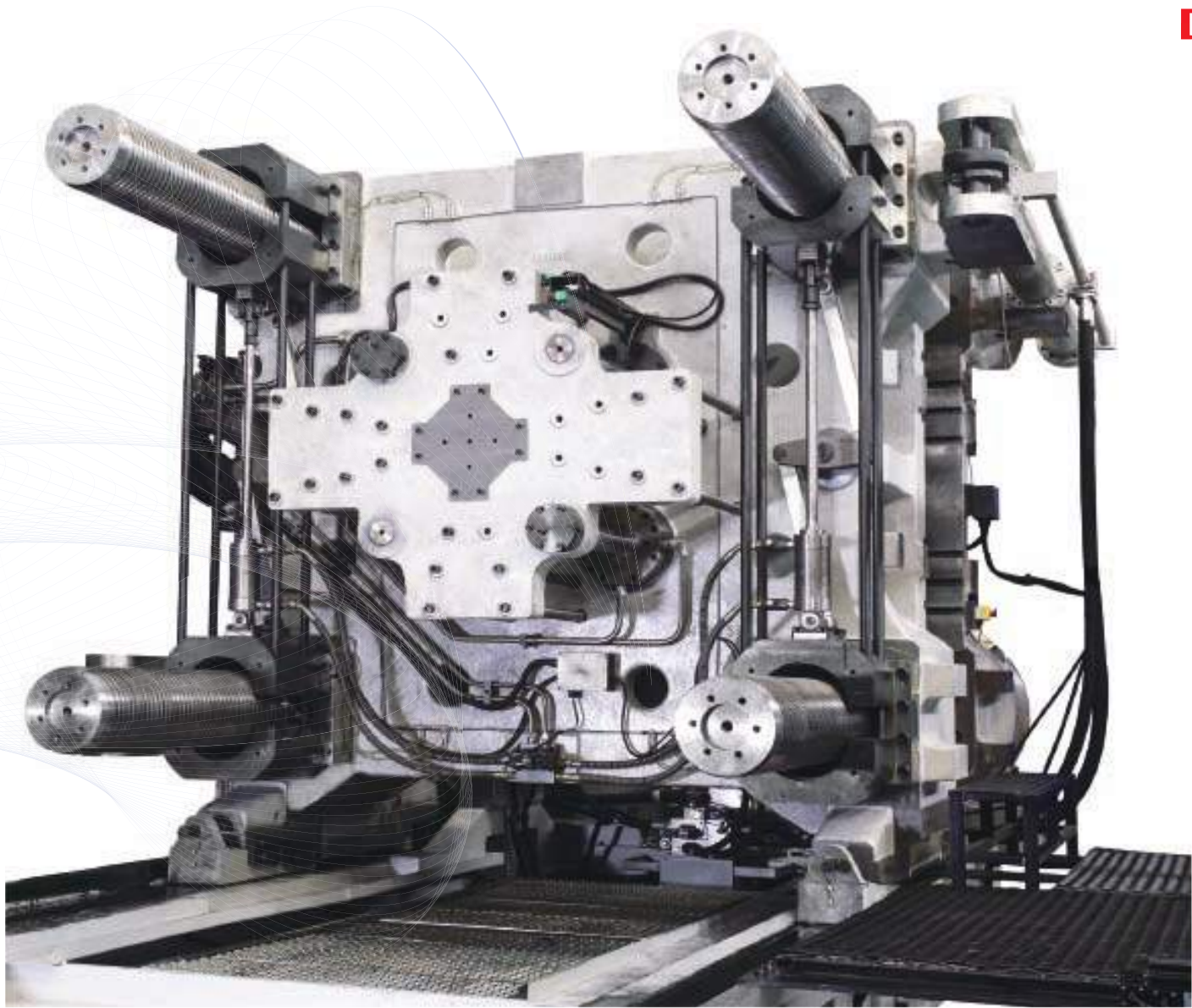
- Injection unit unitary high rigid support

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-efficiency hydraulic motor



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

High-efficiency servo motor




- High-efficiency 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

Features



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

Servo driver



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

Hot runner(optional)



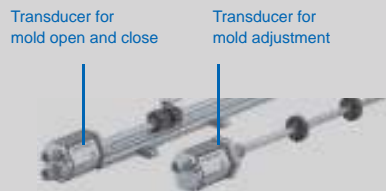
- Hot runner temperature control integrated within controller, convenient operation and precise control

High-performance controller



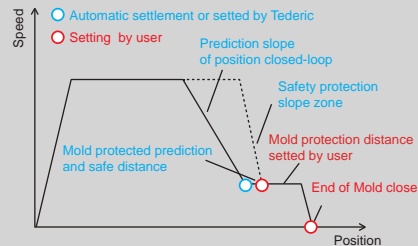
- humanized controller
- Flexible modularized mainboard, free combination for I/O point
- Mighty open software platform, Programming quickly and easily
- KEBA controller

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 prediction function algorithm, greatly reduce mold open and close time
- Combined with proportional directional valve and linearized program, makes mold open and close much smoother

Tie bar unbalance loading monitoring



- Prevent unexpected tie bar damages by monitoring the force condition on each tie bar during all processing program.

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.

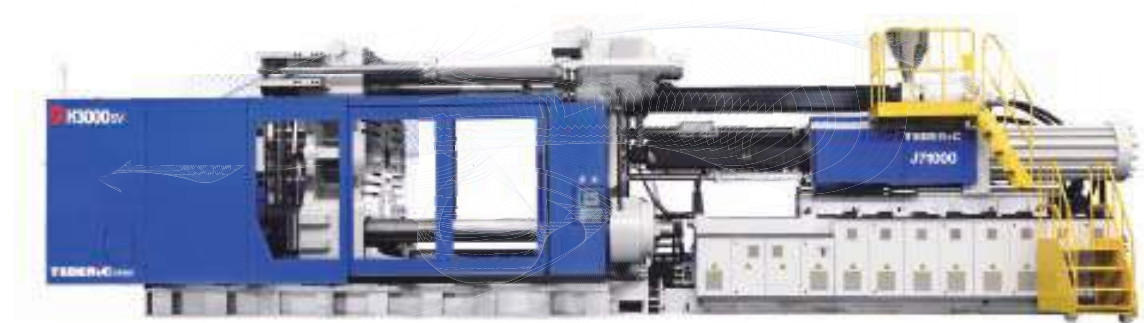


D H 1 7 0 0 / i 1 7 8 0 0
Dream
Two-platen machine
Clamping force
International size
Injection unit i: Double injection cylinder with injection structure of reciprocating screw

DH / i series Configuration for clamping unit and injection unit

Clamping unit / Injection unit	i3200	i3800	i4800	i5800	i7500	i9500	i13500	i17800	i19700	i24000	i37000	i54000	i66000	i91600
DH480	Standard	Optional												
DH550	Optional	Standard	Optional	Optional										
DH680		Optional	Standard	Standard	Optional									
DH850				Optional	Standard	Optional								
DH1200					Optional	Standard	Optional							
DH1400						Optional	Standard	Optional						
DH1700							Optional	Standard	Optional	Optional				
DH1900							Optional	Standard	Optional	Optional	Optional			
DH2100								Optional	Standard	Standard	Optional			
DH2700									Optional	Standard	Optional	Optional		
DH3000											Optional	Standard	Optional	
DH3500												Optional	Standard	Optional
DH4050													Optional	Standard
DH7000														Standard

Standard Optional



Application

Pipe fittings



D H 2 1 0 0 / J i 7 1 0 0 0
Dream
Two-platen machine
Clamping force
International size
Ji: Extruded injection structure
Injection pressure: ≤100MPa

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

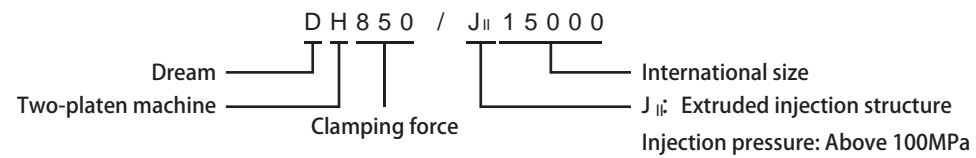
Clamping unit / Injection unit	Ji8200	Ji15000	Ji24000	Ji35500	Ji54000	Ji71000	Ji108000	Ji117000	Ji179000	Ji215000	Ji250000
DH480	Standard	Optional									
DH550	Standard	Standard	Optional								
DH680		Optional	Standard	Optional							
DH850			Optional	Standard	Optional						
DH1200				Optional	Standard						
DH1400				Optional	Standard	Optional					
DH1700					Optional	Standard	Optional				
DH1900					Optional	Standard	Optional	Optional			
DH2100						Optional	Standard	Optional	Optional		
DH2700							Optional	Standard	Optional	Optional	
DH3000								Optional	Standard	Optional	Optional
DH3500									Optional	Standard	Optional
DH4050										Optional	Standard
DH7000											Standard

Standard Optional



Application

Logistics, pipe fittings



DH / J11 series configuration of clamping unit and injection unit

Clamping unit / Injection unit	J118200	J1115000	J1124000	J1135500	J1154000	J1171000	J1117000	J1179000	J1215000	J1250000	J11588000
DH480											
DH550											
DH680											
DH850											
DH1200											
DH1400											
DH1700											
DH1900											
DH2100											
DH2700											
DH3000											
DH3500											
DH4050											
DH7000											

Standard Optional

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

Function description / Clamping unit	DH480-1200	DH1400-7000
Platen with screw hole		
Platen with T slot		
Platen (According to Euromap 2)		
High rigid 2-platen clamping unit		
Mechanical safety		
Electrical safety		
Hydraulic safety		
Auto-mold height adjusting function		
Mold open, closing and mold adjusting are controlled by transducer		
Fix-quantity type auto central lubrication system		
Mechanical adjust support for moving platen		
High rigid steel slide tape for moving platen		
Auto safety door		
EUROMAP 18 robot interface		
Mechanical limit for moving platen		
Magnetic platen		
Hydraulic/electrical unscrew device		
Widened door and covers		
Safety pad under mould area		
2groups of water regulator		
Quick coupling for water regulator		
2 groups of air blaster		
4 groups of air blaster		
Glass water regulator		
Self-lock valve for locking		

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			Ji35500-Ji71000			Jii15000-Jii71000		
	i3200-5800	i13500-91600		Ji8200-Ji24000	Ji108000-Ji250000		Jii8200	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 i3200-i91600	Ji Injection unit Ji8200-Ji250000	Jii Injection unit Jii8200-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	○		
Oil level alarm	●	●	●
Self-lock suction oil filter	●	●	●
Cooling water valve	○	○	○

Function description / Clamping unit	DH480-1200	DH1400-1900	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	○	○	○

● Standard ○ Optional

DH series Components & Functions list --- For electric

Function description / International size	i3200-5800	i7500-9500	i13500-91600	Ji35500-Ji250000	Jii15000-Jii588000
KEBA Controller	●	●	●	●	●
GEFRAN 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	○	○	○	○	○
Euromap 12 or 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	DH480-1200	DH1400-7000
TEDERIC standard color	●	●
Shock-proof pad	●	●
Foundation steel plate, Foundation anchor bolts	○	○
Shock-proof pad , 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